

Advancing urban sustainability transitions: A framework for understanding urban complexity and enhancing integrative transformations

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Period	Quantitative data									
	total mining minerals	imported metal materials	industrial construction materials	chemical materials	urban construction materials	biomass crops	biomass timber	fresh water for industry	domestic water consumption	coal
1995	confidential	confidential	298009	45549	97616	46500	7126	67867804	7413660	1889920
1996	confidential	confidential	302974	46031	107294	49690	7832	69829094	7697002	2115588
1997	confidential	confidential	304335	46102	11620	52388	8483	73785952	7890650	2357812
1998	confidential	confidential	333284	43516	137820	54672	10060	70953294	8010890	2251456
1999	confidential	confidential	349395	51179	246215	57406	17973	69351198	8187158	2523216
2000	confidential	confidential	401481	53299	270347	61582	19735	68031584	8389986	3190488
2001	confidential	confidential	420930	67828	291555	67783	21283	60565015	8621487	2406120
2002	confidential	confidential	504507	70933	314707	77054	22974	62554630	9191672	2224496
2003	confidential	confidential	537154	82754	338679	86662	24724	64055770	9732511	2606740
2004	confidential	confidential	834611	100862	357212	96495	26076	60653604	10231590	2378300
2005	confidential	confidential	768043	170297	373169	107513	27241	45156846	10796113	2355400
2006	confidential	confidential	823689	200562	409614	115528	29901	48272573	11176116	2611300
2007	confidential	confidential	860321	257807	485409	124825	35435	59796786	11470510	3580400
2008	confidential	confidential	1001746	297236	503370	137466	36746	65426622	11740884	3090600
2009	confidential	confidential	1031331	306421	572785	147070	41813	77123077	11994077	4633800
2010	confidential	confidential	1094846	182150	645472	169598	47119	90153548	12953598	4852500
2011	confidential	confidential	1176924	196154	759720	184862	53433	98077008	14067950	6708102
2012	confidential	confidential	1122837	209596	1048414	201499	60594	97312580	14989000	8473446
2013	confidential	confidential	1336392	222732	1321002	219635	68713	92456737	15031250	10305830
2014	confidential	confidential	1030540	115000	1475559	239402	77920	67302800	15073500	12105830
2015	confidential	confidential	1088250	119603	1532890	252830	79030	76882706	15602920	12490080
2016	confidential	confidential	1293470	124432	1582985	259842	81050	78228762	16338820	13082370
2017	confidential	confidential	1207281	129135	1662980	271130	84540	80291180	16849870	13658720
2018	confidential	confidential	1192136	134790	1713441	278980	88320	82339690	17552830	14042820
2019	confidential	confidential	1291611	138554	1792172	283575	93760	81732520	18223760	14537070
2020	confidential	confidential	1278230	142620	1829694	296856	96822	83454480	18691040	15011320

coke	heavy oil	diesel oil	petrol	main products	industrial waste water	industrial water pollutions	domestic sewage	domestic sewage pollutions	sulphur dioxide	nitrogen oxide	dust	solid waste
4114	46599	3385	2987	48147	22304000	10532	7992852	1399	149500	4608	54660	2657600
4986	52230	3645	2832	55944	23124000	10919	8298330	1453	170300	4984	52350	2981850
2668	39968	3869	2577	49913	22992800	10857	8507106	1489	166600	4672	50040	3306100
2194	38232	4111	2291	51244	22500800	10625	8636741	1512	119600	4538	47730	3630350
2148	36422	4260	2603	59370	22566400	10656	8826779	1545	90900	4918	45420	3954600
1957	42796	2608	2225	68741	22763200	10749	9045454	1584	119200	5529	43110	4278850
1889	42758	4993	1696	96067	22280300	10520	9860000	1726	141300	6312	40800	4603100
2355	44310	5280	1700	123553	20322400	9596	9870000	1728	128900	7258	38600	5002500
2546	46550	7429	1636	164927	20863900	9852	9610000	1682	128700	8655	35700	5186200
2338	55090	8969	1370	204456	21449700	10128	9610000	1684	128500	18600	31100	6380500
2666	62790	8975	1100	254099	20107100	9495	10590000	1853	122600	19600	27400	6870800
1595	60813	10319	899	312910	16130500	7617	11160800	1954	100400	17300	26600	7809800
1850	63555	14019	762	368792	16969600	8013	12614400	2208	95000	14400	26900	8033400
4783	57694	18303	884	400820	16055900	7582	13417600	2349	86900	21300	26800	8846700
1621	54442	17460	901	503148	18514200	8742	13516000	2366	88300	23000	26100	9304500
1106	46747	16601	937	521576	16141000	7621	12953599	2268	90000	30300	21400	10068200
1767	53017	21207	1237	653846	19615402	9262	14067950	2463	97600	30000	17700	11218050
1765	49037	19615	1373	748558	19462516	9190	14989000	2624	108800	27600	14000	12367900
1725	43115	18325	1293	890928	18491347	8732	15031250	2631	107556	26800	14500	12448300
1645	36798	17000	1410	671945	17460400	6356	15073500	2639	105109	27300	13800	12593200
1705	44870	17680	1468	689284	17209860	6580	15202650	2693	104058	27800	14200	12793600
1780	47872	18350	1530	709218	16687700	6420	15392870	2739	102913	28200	13300	12852900
1834	49833	18870	1598	788392	16497890	6735	15624800	2786	86200	28900	13900	13019200
1908	52092	19230	1688	853496	15829890	6220	15889250	2832	76300	29120	14580	13354900
1974	55730	19660	1732	893985	15338200	6150	16002700	2844	68000	29380	14470	13492700
2040	58790	21090	1750	954162	14537230	6060	16289400	2850	65000	29490	14960	13600660

Interviewee Description

Name	ID No.	Age	Gender	Educational Background	Occupation	Years Lived in Jinchang City	Group of interviewee
Confidential	G1	57	M	Master	Confidential	32	Government administrative officer
Confidential	G2	57	M	Undergraduate	Confidential	30	Government administrative officer
Confidential	G3	49	M	Undergraduate	Confidential	35	Government administrative officer
Confidential	G4	49	M	Undergraduate	Confidential	25	Government administrative officer
Confidential	G5	48	M	Undergraduate	Confidential	23	Government administrative officer
Confidential	G6	47	M	Undergraduate	Confidential	30	Government administrative officer
Confidential	G7	36	M	Undergraduate	Confidential	10	Government administrative officer
Confidential	G8	26	M	Undergraduate	Confidential	22	Government administrative officer
Confidential	G9	26	M	Undergraduate	Confidential	22	Government administrative officer
Confidential	G10	28	M	Undergraduate	Confidential	24	Government administrative officer
Confidential	G11	42	M	Undergraduate	Confidential	20	Government administrative officer
Confidential	G12	50	M	Undergraduate	Confidential	40	Government administrative officer
Confidential	E1	41	M	Undergraduate	Confidential	25	Enterprise manager
Confidential	E2	27	M	Undergraduate	Confidential	23	Enterprise manager
Confidential	E3	41	M	Undergraduate	Confidential	30	Enterprise manager
Confidential	E4	46	M	Undergraduate	Confidential	30	Enterprise manager
Confidential	E5	44	M	Undergraduate	Confidential	20	Enterprise manager
Confidential	E6	49	M	Junior college	Confidential	32	Enterprise manager
Confidential	E7	43	M	Undergraduate	Confidential	20	Enterprise manager
Confidential	E8	48	M	Undergraduate	Confidential	25	Enterprise manager
Confidential	E9	48	M	Junior college	Confidential	30	Enterprise manager
Confidential	E10	48	M	Undergraduate	Confidential	25	Enterprise manager
Confidential	W1	40	M	Junior high school	Confidential	20	Factory worker
Confidential	W2	45	M	Undergraduate	Confidential	36	Factory worker
Confidential	W3	26	M	Undergraduate	Confidential	22	Factory worker
Confidential	W4	29	M	Undergraduate	Confidential	25	Factory worker
Confidential	W5	36	M	Undergraduate	Confidential	6	Factory worker
Confidential	W6	40	M	Undergraduate	Confidential	6	Factory worker
Confidential	W7	30	M	Undergraduate	Confidential	6	Factory worker
Confidential	W8	27	M	Undergraduate	Confidential	23	Factory worker
Confidential	W9	29	M	Undergraduate	Confidential	25	Factory worker
Confidential	W10	27	M	Undergraduate	Confidential	23	Factory worker
Confidential	W11	57	M	Junior high school	Confidential	35	Factory worker
Confidential	W12	56	M	Junior high school	Confidential	36	Factory worker
Confidential	W13	58	F	Junior high school	Confidential	35	Factory worker
Confidential	R1	57	M	Undergraduate	Confidential	32	Non-factory resident
Confidential	R2	27	M	Undergraduate	Confidential	18	Non-factory resident
Confidential	R3	48	M	Junior college	Confidential	26	Non-factory resident
Confidential	R4	29	F	Undergraduate	Confidential	3	Non-factory resident
Confidential	R5	45	M	Undergraduate	Confidential	22	Non-factory resident
Confidential	R6	43	F	Undergraduate	Confidential	27	Non-factory resident
Confidential	R7	41	M	Undergraduate	Confidential	30	Non-factory resident
Confidential	R8	37	M	Undergraduate	Confidential	19	Non-factory resident
Confidential	R9	39	F	Junior college	Confidential	27	Non-factory resident

Confidential	R10	40	F	Undergraduate	Confidential	20	Non-factory resident
Confidential	R11	45	M	Master	Confidential	25	Non-factory resident
Confidential	R12	43	M	Undergraduate	Confidential	22	Non-factory resident
Confidential	R13	47	M	Undergraduate	Confidential	25	Non-factory resident
Confidential	R14	49	F	Undergraduate	Confidential	25	Non-factory resident
Confidential	R15	45	M	Undergraduate	Confidential	24	Non-factory resident

Interview Transcription

Interview with G1

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

G1

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

G1

Nearly 20 years

Investigator

Do you have some ideas why this term was proposed?

G1

No need to think, where are needed for sustainable development. Particularly in Jinchang, facing the reality of the threat of shortage of resources. Proven resources can support the 30 years. Sustainable development is a person living in Jinchang must think about. After dinner sons, and their offspring how to do. Necessarily sustainable development.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

G1

Yes

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

G1

Do not want to answer. My identity decision. Positive side, the rule of law, science and governance. Against the class struggle. Proposed that a harmonious society, leading to a lot of questions, but inconvenient elaborate.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

G1

Without careful thought

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

G1

-

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

G1

Not bad. Harmony is not meant to cover up the contradictions. Money cannot buy peace. Corruption, unfair distribution. Must promote social reforms, while also touched many people's interests. Miscarriage of justice, the privileged class, causing many contradictions. The privileged classes in order to safeguard their interests against reform.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

G1

Not prosperous enough. Small city. Population, area and economy are all small. Not the ancient city nor cultural city is not a tourist city. Just an inland mining city. Culture Secretary could not say Jinchang culture. General sense of the Han culture only, behind closed.

Investigator

Economy situation?

G1

Total economy is small

Investigator

Environmental condition?

G1

Not good. Some say Jinchang unfit for human survival. But I think that does not.

Investigator

Urban construction?

G1

So so

Investigator

The standard of living of the urban residents?

G1

Not bad

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

G1

Nature; four distinct seasons.

Small cities, people live relatively quiet, competition is small, smooth traffic, residential comfort. Slower pace of life.

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

G1

Nature: wind, drought, dry air, poor water quality, stones and more.

Jinchuan pollution, cardiovascular and cerebrovascular disease, hypertension more. Blocking traffic cause behind the concept. Education, health care lags behind.

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

G1

Bad

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

G1

Compared with the near, poor. Compared with the past is also poor. EPA published data is not true. Air quality has not improved, is still worse.

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

G1

-

Investigator

How do you evaluate the sources of air pollution?

G1

The natural environment, particularly the lack of protection of forest and grassland. We have the ability and have a way of governance conditions, but does not govern.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

G1

Pillar

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

G1

Depends on the development of Jinchang what road to go. There are two different options. One is now an infinite expansion, copper and nickel to Dali do. The second is to stay in the present scale, bigger and stronger.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

G1

Yes. Should take the road of intensive processing. Eg. Took half a nickel to do deep processing, revenues can be 10-100 times increased. Eg. Nickel processed into nickel wire. And can get out of the domestic to the world. Rely on technology, innovation and research and development. But why do not go this route? Because the reasons for the political system. Leader evaluation system short-term. Eg. Leaders hope the plant this year, next year production, the year after earnings. The collection of large-scale technological innovation requires various forces and large time span, gains slow.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

G1

Yes

Investigator

Do you think whether pollutants control would constrain the economic growth?

G1

Will not. Techniques can be used to replace entirely.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

G1

Yes. But government should afford it.

Q.6. How do you see the rapid urban sprawl of Jinchang**Investigator**

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

G1

No. The original plan is 43km², now 60km². Particularly scattered, not delicate. When planning a city population of 300,000 according to consider, and now 30 years later, the population less than 300,000. Slow expansion.

Investigator

How do you see the great increase of number of housing every year?

G1

Not represented in the national sense. Jinchang rates lower than the surrounding cities and even county. Because surrounded by desert, there is no space added, prices have been running low. Of course, should be appropriate to develop real estate. There are a lot of people are relatively poor housing conditions, the farmers into the city. Land worthless.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

G1

Not compatible. Only road does not mean urban sprawl. Heating and water supply are all problems.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

G1

Yes

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

G1

Improve the environment in the region.

Q.7. What is the role of government in urban development**Investigator**

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

G1

Leading role. The Chinese government is unlimited government. No brainer, no need to think, as long as one can do to strictly enforce environmental laws. Issues related to the political system. Path selection, selection and scale technology. For me as mayor, I would hurry out performance, economic growth signed letters of responsibility. So many issues are system problems.

Q.8. What is the role of industrial enterprises in urban development**Investigator**

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

G1

The main role. Environmental protection must be strictly enforced. Eg. Penalties to the company had to enforce environmental. But leaders are considering the performance. Lax enforcement, collusion, environmental protection departments cannot manage. Technological transformation of past projects, and now must be rigorous environmental assessment.

Q.9. How urban residents response to the urban environment**Investigator**

How to measure the social progress in your opinion?

G1

Social fairness and justice. Speech freedom of the press, people dare to express their discontent with the government. Government supervised and transparent.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

G1

The first is economy. However, protection of the environment can. In the 21st century can do this. Now is not the original primitive stage of capital accumulation, now have a new path is optional. Now can no longer be at the expense of the current environment for temporary economic development.

Investigator

How do you see the importance of natural environment and environmental protection?

G1

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

G1

Habits, and environmental awareness is poor. Smelter workers said to have been accustomed to pollution, say no taste. Already numb.

Investigator

What environmentally friendly activities do you practice?

G1

-

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

G1

-

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

G1

Yes

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

G1

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

G1

Do not want to. To go to college do not come back, and everyone so.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

G1

Water resource shortage

Q.12. Is there anything else you would like to add?

Investigator

What are they?

G1

None

Interview with G2

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

G2

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

G2

More than 10 years

Investigator

Do you have some ideas why this term was proposed?

G2

Sustainable development of a country is the only way to go, only sustainable development can strength a country and make people prosperous.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

G2

Yes. Sustainable development, economic growth, rising incomes and living standards improved.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

G2

Closely related with Chinese culture. China is an ancient civilization. World harmony, and development throughout the world. Chinese cities are now an important moment in the development, harmony can promote the sound development of the economy

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

G2

-

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

G2

Closely linked

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

G2

Good. In accordance with the standards in the development of a harmonious society. In recent years, a "five cities" close contact with the harmonious society.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

G2

Yes. Pivotal position. Nickel production accounts for over 80% of China has strategic significance.

Investigator

Economy situation?

G2

Relatively fast development of the province of view. West in the middle and upper.

Investigator

Environmental condition?

G2

Better improved. Through nearly 10 years of efforts to create a civilized city and a great contribution to health city.

Investigator

Urban construction?

G2

Not bad.

Investigator

The standard of living of the urban residents?

G2

Middle and upper level

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

G2

Smooth flow of traffic is not crowded. Price of commodities is relatively low. Less pressure

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

G2

Heavy air pollution

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

G2

Good. In a lot better than in the past. Also a lot of investment. However, compared with the nearby, as an industrial city, pollution is serious.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

G2

Some serious pollution at night. Or when there is wind, the air quality is better.

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

G2

Yes, Throat particularly uncomfortable, particularly evident.

Investigator

How do you evaluate the sources of air pollution?

G2

Source is in management. But not the quick fix. To create the first urban civilization, increased investment, a few years will get some treatment.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

G2

Very important, pivotal

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

G2

Possible, resolve the shortage of resources through recycling economy crisis

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

G2

Ever we need transformation. Walking resource-saving road. According to the plan implemented.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

G2

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

G2

Yes, it will constrain the economic growth

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

G2

Yes, benefit for local residents

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

G2

Yes. According to the plan, urban-rural integration. Cities grow, the population increases.

Investigator

How do you see the great increase of number of housing every year?

G2

Increasing every year. New buildings but also increased faster than in the past.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

G2

Cannot strictly compatible, but relatively speaking still more match

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

G2

Yes, there are

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

G2

Beneficial, eg. Suburban environment governance.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

G2

Leadership. Formulation, planning, leadership, implementation, supervision.

Increase the intensity, increase investment. In recent years, the work being done in this area. Circular economy industrial park. In the development of secondary and tertiary production.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

G2

Important. Increase investment to increase treatment.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

G2

Confident?

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

G2

Both important

Investigator

How do you see the importance of natural environment and environmental protection?

G2

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

G2

Through these years of public education, some progress.

Investigator

What environmentally friendly activities do you practice?

G2

Do not litter rubbish, household waste classification.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

G2

-

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

G2

Yes

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

G2

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

G2

Yes

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

G2

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

G2

None

Interview with G3

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

G3

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

G3

More than 10 years

Investigator

Do you have some ideas why this term was proposed?

G3

Resource reuse

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

G3

-

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

G3

-

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

G3

toleration

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

G3

Closely linked

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

G3

-

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

G3

-

Investigator

Economy situation?

G3

-

Investigator

Environmental condition?

G3

-

Investigator

Urban construction?

G3

-

Investigator

The standard of living of the urban residents?

G3

-

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

G3

Slow pace

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

G3

-

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

G3

The effect to improve air quality is good

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

G3

-

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

G3

-

Investigator

How do you evaluate the sources of air pollution?

G3

-

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

G3

-

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

G3

Possible

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

G3

Yes. Looking for international resources

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

G3

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

G3

-

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

G3

Yes, benefit for local residents

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

G3

-

Investigator

How do you see the great increase of number of housing every year?

G3

-

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

G3

-

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

G3

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

G3

-

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

G3

-

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

G3

-

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

G3

-

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

G3

-

Investigator

How do you see the importance of natural environment and environmental protection?

G3

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

G3

-

Investigator

What environmentally friendly activities do you practice?

G3

-

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

G3

-

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

G3

-

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

G3

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

G3

-

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

G3

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

G3

None

Interview with G4

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

G4

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

G4

More than 10 years

Investigator

Do you have some ideas why this term was proposed?

G4

Typical resource-based cities, mainly in the nickel copper sulphide nickel sulfide accompanied meet more ore body of the city. For many years all around the resource-based raw materials to engage in processing and refining. Dominated by raw materials. Currently, to delay the life of the mine, that length of service, imported from abroad minerals, eg.AU. Now around the deep processing of raw materials in combination with other industries. Makes the city in the absence of minerals, they also can develop

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

G4

Yes. for the development of space left descendants later

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

G4

Good concept, people have the right to development, in the development of a fair and interests. Social and economic development with the use of resources, ecological balance, we must achieve a harmonious balance

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

G4

Contribute. The idea of harmony into urban development

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

G4

Sustainable development is a part harmony, and only sustainable development, and to eliminate a lot of contradictions in order to ultimately achieve harmony

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

G4

Implement good. Consider not only economic development, but also consider the social and ecological development. Consider the people, the workers welfare issues. Taking into account the personal development needs, education, employment, pension and other

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

G4

Yes. Jinchang City in the western city considered a typical resource-based raw materials, production-oriented city. Non-ferrous metal production 150,000 tons, 600,000 tons of copper, platinum and other precious metals are among the best in the country. Next development of deep processing, while developing chemicals, salts, sulfuric acid. There are also new energy, wind power, photovoltaic. Target: 10 million kilowatts of photovoltaic power generation, five million kilowatts of wind power. There are raw materials and geographical advantages, airports, railways, with the Xijiang, Russia's trade. The country's new material base, new energy development and utilization of urban

Investigator

Economy situation?

G4

Per capita GDP, per capita disposable income, relatively developed more advanced

Investigator

Environmental condition?

G4

General. But now the next decision to improve the local ecological environment.

Investigator

Urban construction?

G4

The earliest is the Gobi Desert, 58 years found that nickel ore, and later with businesses, the city had 81 years to build urban planning. Compared with many cities in the province, there are gaps. In concept, ahead of consciousness, there are flaws. But from the Gobi Desert to the industrial city of view, a lot of progress. Future summed up his advantage, learning in the province experience, learning from foreign experience. Not engage in high-level, can be more repair Maisonette, city attractions transformation. Efforts to build a beautiful of Jinchang small city.

Investigator

The standard of living of the urban residents?

G4

Relative Gansu Province, per capita income can be. Amateur cultural life is also good. But still lagging behind compared with the developed areas, ideas, ideas and so on.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

G4

Fewer people, planning area, comfortable, convenient transportation, fewer vehicles, no traffic jam.

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

G4

Ecologically fragile, dust seriously. Culture, education, health care, relatively backward.

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

G4

Better. 10 years ago or earlier, smelting and mining, most of the gas emitted directly, when the wind knocked down air pollution is particularly serious. Nickel previously produced several tons, is now more than ten million tons, but the air quality but much better than before. Now in general, when blue sky more. But still is an industrial city that air pollution is an important issue. Still need to continue their efforts. Once in 2006 ranked the ten most polluted cities in the world, now get rid of a bad title.

Than with their own air quality has improved, but compared with the surrounding urban agriculture, there are still gaps.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

G4

Almost the same in day and night. In windy weather, the air is better.

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

G4

Several years ago had. Now now no. When picking up my kids, the smell is particularly great.

Investigator

How do you evaluate the sources of air pollution?

G4

Natural Environment: Jinchang located in the edge of two deserts: Badan Jaran Desert and Tengger Desert. Drought, when the weather is particularly bad windy.

Industrial city: mining, smelting, processing, relatively large impact on air.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

G4

Very important, pivotal

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

G4

Possible

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

G4

Transformation is necessary.

According to current thinking, the main develop alternative industries. Now carry out industrial restructuring. Of limited resources for further processing, while extending the service life of the mine, to engage in "resource control" strategy.

Bonanza for lean ore and mining together, import peripheral resources. In addition, new energy projects. Investment, to accept the eastern industrial transfer. Eventually even without mine, the city can flourish.

(Alternative industries, is specific for the development of mineral resources in order to build up the basis of the type of the city's recycling and mining make sustainable development, reInvestigator on existing resources and infrastructure conditions, the use of high-tech, and alternative development through industrial extension up industry, especially non-mining industry which could weaken the city's economic dependence on mineral development, and strengthen the city's comprehensive service functions and sustainable development capacity.)

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

G4

Yes

Investigator

Do you think whether pollutants control would constrain the economic growth?

G4

Not contradictory. When done on the project "three simultaneous." Good governance and the environment, pollution control, in turn, is also conducive to the economic development and people's health.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

G4

Should be conducive. For environmental management, in what is now looking to improve the cost, but in the long run, benefit more.

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

G4

Yes. Urban development requires a certain size, you need to adapt to population size. Infinite expanse is a waste.

Investigator

How do you see the great increase of number of housing every year?

G4

Currently a large number of new housing momentum has passed. A few years ago from a planned economy to a market economy, when housing increased faster, people demand is also large. Jinchang City migrant population is relatively small, and now new housing at reduced speed.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

G4

Sewage treatment, urban water supply, central heating, road construction, and urban basic facilities, but also in the increasingly improved, eg. Sewage plant construction, water quality improvement of communication with the outside world highway construction. In some areas to keep up with, eg. Photovoltaic, wind power, output Corridor should be improved, needs to be further developed.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

G4

Yes, there are

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

G4

The principle of proportionality. Eastward expansion of the production area, downwind engage in production. Living area northward. Now, the city's expansion will not affect the regional environment, but the construction of living quarters environment, there will be conducive to regional environmental improvements.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

G4

Planning, leading. Urban development should follow the master plan, according to the established direction to develop, not leadership changed, urban planning becomes. But also to invite professionals, urban designers, landscape planners, professional design units and institutions, while the participation of society and democratization. Of course, everything needs to lead the government to lead.

In the project, the time to engage in the development, there must be ecological and environmental protection concept. Economic development is needed, but not at the expense of the environment and ecology for the price. Technically, the project to go through a feasibility study, to go through the environmental assessment, to increase investment in environmental protection. Must be input. In accordance with national indicators developed through the accumulation of small targets, bit by bit to achieve great goals, can not rely on slogans.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

G4

Jinchuan dominance, because enterprises established as a city in fiscal revenue accounted for 60% or more. First Jinchuan company's development has played a pivotal role in urban development. Secondly, the company's philosophy, corporate co-ordination with the Government, eg. Plant roads and urban roads bordering the concept of environmental

protection, energy concepts, etc., all of the city's development has played a significant impact. Third, the concept of urban development and the development of the company's philosophy to combine.

Against environmental pollution, companies should the existing processes and production status, make pollution reduction considerations, in accordance with national, Gansu and other fixed targets for production. For future projects, but also to focus on the environmental impact. Improve corporate social responsibility, strict achieve the "three simultaneously." Within the enterprise to strengthen management, increase publicity and enforcement. Governments and businesses to communicate and combine direct to do.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

G4

Social progress is a comprehensive evaluation. Not just GDP, per capita income is not just. Including economic, cultural, environmental, human quality, legal advancement. Conducive to the development of children, is also conducive to the survival of plants and animals. Inclusiveness, harmony.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

G4

Equally important. Industrial recycling, downstream of the upstream waste as a raw material. Agricultural cycle. Social cycle, each person must have to protect the environment, conserve resources concept.

Investigator

How do you see the importance of natural environment and environmental protection?

G4

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

G4

Gradually increased. Awareness, thinking and behavior are improving. Has been successfully applied as a "health city" in the effort "civilized city." People's ideas and behavior of a great relationship with the development of the city, and now need to continue to instill the concept of sustainable development, there is a lot of space. Uneven levels of awareness of the people, but overall in the right direction.

Investigator

What environmentally friendly activities do you practice?

G4

Do not waste, do little things to do, lead by example, from its start.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

G4

Follow the general trend, follow the crowd, go with the stream

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

G4

Yes. Just follow the requirements of sustainable development, all aspects, everyone effort, we will be able to achieve sustainable development.

Further economic development, the blue sky, the production process of the waste a little less on the surrounding environment to further improve and increase afforestation. Environmental protection, ecological balance further implement the concept. Economic development can not be impatient. Public awareness has increased, from scratch, do good deeds, but not as small.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

G4

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

G4

Yes. Jinchang development, other places are also under development. .

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

G4

In addition to resources outside the mine. Other important issue is the concept, attention problems. Person plays an important role. Foothold in the current resource, based on the ideas and thinking people do not change, certainly affect sustainable development.

Q.12. Is there anything else you would like to add?

Investigator

What are they?

G4

None

Interview with G5

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

G5

Yes

In fact, used to be a drought Jinchang city, due to the discovery of nickel ore, since the development of Jinchuan. There are only the mining companies, with the enterprises have the city. But resources are limited. Just started mining bonanza, science and technology is relatively backward, only mine was expected Jinchang mining 40 years. Later mining technology has improved, is expected to be able to exploit mineral 20 years.

Faced with this form, the Jinchuan company made two strategies, one is looking for new resources, eg. Introducing external or foreign resources; hand and improve existing forms of production, from mining to only sell raw materials, to the sustainable development of resources for deep processing. Metals processing, production of metal products, the development cables.

From an environmental aspect, Jinchuan initially focus only on production. On the one hand is the lack of emission reduction technology, the other is the lack of funding for environmental protection. Sulfur dioxide pollution is very serious, annual emissions of 120,000 tons, environmental degradation. Later environmental get attention, because:

1 National requirements must be non-ferrous metallurgical enterprises environmental standards, forcing enterprises to engage in environmentally friendly.

2 In addition the development of enterprises, to seek a listing, faced with the need for environmental protection, through the listing verification. Meanwhile, the city's development requirements must be environmentally friendly.

3 because the local ecological environment itself is very fragile, people's quality of life makes demands on the environment residents also increased.

4. Investment, requires local good environment to attract foreign investment.

5 civilized city a request environment must meet the national standards, making enterprises must strictly control their pollution emissions.

Government forcing enterprises to build environmental protection facilities, Jinchuan company spent 23 one hundred million in environmental protection construction. Sulfur dioxide emissions be reduced to 60,000 tons. Corporate environmental practice, is forced out. On the other hand, the adjustment of industrial structure, extensive production, small cement plants, small lime plants, paper mills, small ironworks, small power plants, all discontinued. Environmental projects on the one hand, the other hand, closing small polluting enterprises.

National 113 polluted cities. Jinchang environment is getting better now. 11 and 12 years meet the national standards. As a state-owned enterprise, the enterprise every year signed letters of responsibility, responsibility for pollution control.

As a business, the first economic development and environmental protection. As a resident, after the first environmentally friendly economic development. As a government managers, seeking a balance of economic development and environmental protection. In the development process, to allocate funds to engage in environmentally friendly.

Effective use of local resources, extend the industrial chain of circular economy, turning waste into treasure. Air and water waste, secondary use. Production sector small cycles, recycling companies, major social circle. Eg. sulfuric Dioxide → sulfuric acid (+ limestone) → PVC and sulphate → waste residue → cement → fill in the mining pit. Eg. Waste water → sewage treatment plant → wastewater recycling, to achieve zero discharge of water. Nickel slag copper slag utilization.

Industrial city, resource constraints on the one hand, the other is bound water.

(Water Resources Protection) cut costs. In recent years, over-exploitation of groundwater. Previously mainly by Qilian snow, now from the Qilian Mountains holes, introduced Qinghai water can be transferred to the 3000-4000 annual tons of water. Ecological protection, closed forest, pasture, increasing water conservation capacity. Shut-charge fields, protection of groundwater sources.

Based on local resources, beaches gale sunnier restructuring, the development of photovoltaic power generation, wind power.

Investigator

If yes, can you remember when did you notice this term for the first time?

G5

About 10 years

Investigator

Do you have some ideas why this term was proposed?

G5

-

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

G5

1. through recycling economy and cut costs, previously only 20 years of life of the city, and now there is no problem to survive.

2. construction of new energy, energy conservation, green corridor construction, the living environment is getting better. Clean water is not a problem. The air is much better than before, though still lagging behind with the ideal value. Green corridor, money trees, voluntary labor. Although there are gaps, but has been getting better and better.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

G5

China's tradition is moderation, and for you. Harmonious society wants the state to prosperity, economic development, live and work.

Western Europe, the elderly community, lifeless. With people fighting, fun. The most fundamental is that China too many people and limited resources. But in this case, by the harmonious development of homes willing to meet people.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

G5

-

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

G5

-

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

G5

Good. Jinchang proposed to create a national civilized city, last step away. However, the management of society, the people of the city's satisfaction, social security, etc., is very good.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

G5

Strategic city. Ever, it is the homeland of Jinchang gold baby. In the west, the pivotal. In the Hexi Corridor, location is to look at, but also at an important position.

Investigator

Economy situation?

G5

-

Investigator

Environmental condition?

G5

-

Investigator

Urban construction?

G5

-

Investigator

The standard of living of the urban residents?

G5

-

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

G5

Modernization. City of immigrants relatively high quality. High level of road construction. Life of ease.

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

G5

External ecologically fragile. In Badan Jaran Desert and Tengger Desert edges. In the desert semi-desert regions. Only air levels need to be further improved. Basic social inadequate, ill need to go to the field with the look.

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

G5

Vertical ratio becomes two from three, has been greatly improved. However, compared with the current requirements, there are gaps. Meanwhile, the air quality is unstable. Because now industrial production, heavy chemicals, with industrial production, the total becomes larger, the air pressure is still very large, and must take measures to strengthen law enforcement, making enterprises discharge standards. Of course, with the development of new energy sources, air quality should be getting better.

There are two aspects of the air quality. First, non-ferrous metallurgy and heavy chemical industry, in addition to wind, dust and more.

Fewer and fewer people want to chimneys, chimney smoke less and less. But as a business, I hope chimney smoke as possible, but the pressure forced the government and residents, had to do with environmental protection.

Jinchang line monitoring, daily online have announced national environmental data, reports air quality situation, in terms of environmental data released, Jinchang, Gansu Province for the first home.

PM2.5 monitoring equipment, the State Environmental Protection Department of experts to determine the device resettlement sites. It stands to reason as an industrial city, living area and production areas should be separated. Jinchang life and production from the original one, and now the production area eastward, living area northward. PM2.5 monitor placed in the living area, certainly not a problem.

Jinchang in the air, for road traffic pollution, PM2.5, will be diluted. Focus lies sulfur dioxide and dust pollution.

Nitrogen oxides, a standard. But while encouraging the development of civilian vehicles, on the other requirements of environmental indicators to rise, not fall, so nitrogen oxide pollution there are some pressures.

Overall, on the one hand continue to discharge, on the one hand trInvestigator to do environmentally, pain is formidable. Focuses on the control of sulfur dioxide emissions. Jinchang still trInvestigator to declare green city, 26 indicators, and now there are 10 Jinchang standards. Meanwhile, the environmental monitoring capacity is relatively poor, did not do full coverage.

For carbon emissions, close out of small coal stove small boilers. In addition to promote green travel, walking & biking to work, so social circulation, start from the family, saving water and electricity and gas. Units in promoting paperless office. Jinchang is now the circular economy pilot, ideas need to slowly build up.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

G5

-

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

G5

-

Investigator

How do you evaluate the sources of air pollution?

G5

-

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

G5

-

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

G5

-

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

G5

Sustainable development that is now present, we must transition. From extensive management to become intensive operations. Former finance 70% of the Jinchuan station has now dropped to 50%. Now encourage the development of recycling economy, non-ferrous metal processing, clean energy, and cultural tourism. Adjust the industrial structure.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

G5

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

G5

Certain extent limited. Especially now raise environmental threshold, can not take the old path of pollution first, treatment later.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

G5

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

G5

Development of the city is derived from economic development, as well as urbanization, allowing farmers to live a life of city people, so some farmers move to cities. + Increase of population size increases the total economy, and promote development of the city.

Investigator

How do you see the great increase of number of housing every year?

G5

-

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

G5

Basically consistent

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

G5

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

G5

Improve the regional environment. Urban-rural integration demonstration city of Gansu Province, the city with rural, rich peasants to work. The standard construction of rural to urban, industrial agriculture concept of operations, to the concept of urban community management of rural, urban and rural integration.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

G5

Planning and leading role. The right to collect on the planning, management decentralization.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

G5

Economic support role. With enterprises have the city, a city to do if there is no industry support, not long-term development.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

G5

- 1 good mechanism to stimulate vitality
- 2 good planning
- 3 people have good ideals, progressive spirit

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

G5

The first is economic. However, protection of the environment can. If only environmentally friendly, even have to eat. And engage in certain economic investment needs of environmental protection, it must first carry out economic, environmental or just empty slogans, just wishful thinking. But the economy is not only environmentally friendly, is dry Ze and fishing.

Investigator

How do you see the importance of natural environment and environmental protection?

G5

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

G5

Environmental awareness has laid the basis of the standard of living. In the living standards improved in the case, people started to pay attention water sanitation, clean air, environmental awareness is gradually developing.

Investigator

What environmentally friendly activities do you practice?

G5

Green travel, do not litter

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

G5

- 1 theory and reality there is a gap
- 2 The government put in place

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

G5

Yes.

Beautiful China, Jinchang beautiful, livable, the air is getting better. Improvement in the external environment, tune into the outer basin of water. Corporate responsibility for pollution abatement full pay, resident environmental awareness, people's living standards are improving.

- 1 new energy, inexhaustible
- 2 circular economy, deep processing, build new industries
- 3 forward the industrialization of agriculture

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

G5

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

G5

Days of His Career, wide sea diving. The outside world more exciting, more suitable to broaden their horizons, changing concepts.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

G5

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

G5

None

Interview with G6

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

G6

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

G6

About 10 years

Investigator

Do you have some ideas why this term was proposed?

G6

Stage of development, cultural impact

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

G6

-

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

G6

Human harmony, the harmony between man and nature

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

G6

The idea of harmony into urban development

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

G6

-

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

G6

-

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

G6

Yes. Strategic importance.

82,97,2009, Third Edition urban planning. The legal system is not perfect, that many factors

Investigator

Economy situation?

G6

-

Investigator

Environmental condition?

G6

-

Investigator

Urban construction?

G6

-

Investigator

The standard of living of the urban residents?

G6

-

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

G6

-

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

G6

-

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

G6

Improved. Geographical environment, every 3-4 winds.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

G6

-

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

G6

There is no accurate estimate, I do not know the extent of impact on the body

Investigator

How do you evaluate the sources of air pollution?

G6

Development perspective.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

G6

Very important

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

G6

Possible. Should make arrangements in advance.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

G6

Must be transformed. Development of tertiary industry, the service sector.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

G6

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

G6

-

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

G6

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

G6

Yes. Blind expansion, improved maintenance costs. Should be based on the per capita land-use arrangements (150m²/person). Planning 52km², 2020, 35 million people, there is space.

Investigator

How do you see the great increase of number of housing every year?

G6

Relative to the surrounding cities, the better. To get an education, into the city. Factory premises often develop late.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

G6

Do not match, infrastructure construction slightly behind

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

G6

Yes, wasteful

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

G6

Integrated system, should be improved

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

G6

Leadership. Ideas. Positioning. Macroeconomic policy.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

G6

Three large gap between production. To strictly implement environmentally friendly.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

G6

Civilized behaviour

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

G6

-

Investigator

How do you see the importance of natural environment and environmental protection?

G6

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

G6

-

Investigator

What environmentally friendly activities do you practice?

G6

-

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

G6

Social environment

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

G6

More difficult. Unfit for human habitation, natural healing slowly.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

G6

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

G6

No, do not want to. Backward

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

G6

Water Shortage, 108 water shortage cities

Other problems can be solved through techniques

Q.12. Is there anything else you would like to add?

Investigator

What are they?

G6

None

Interview with G7

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

G7

Yes. Sustainable development is the person put forward. Existing living environment be protected as much as possible long-term development. Do not cut off the road to the development of children.

Investigator

If yes, can you remember when did you notice this term for the first time?

G7

About 5 or 6 years

Investigator

Do you have some ideas why this term was proposed?

G7

Environmental resources carrying capacity is limited. If human activities continue to destroy the environment, breaking capacity, we need to adopt a more scientific approach to development.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

G7

Yes. Conservation-oriented society, more and more attention to environmental protection. Cannot waste as much as possible not to waste, conserve water, use less plastic bags and disposable chopsticks.

Q.2. What is your opinion on harmonious society in China**Investigator**

How do you evaluate the policy of constructing harmonious society?

G7

Is actually greater level of harmony between people, people-oriented. People have to rely on nature to survive, the same people to achieve harmony with the environment

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

G7

Policy makers should not only focus on the present, but also to pay attention to long-term planning.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

G7

-

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

G7

Good. Urban-rural integration, circular economy.

Q.3. How do you evaluate the status of Jinchang in western cities of China**Investigator**

Do you feel that Jinchang is a prosperous city? Why?

G7

Just from the industry, the Jinchang is a relatively prosperous city.

Investigator

Economy situation?

G7

Per capita income has remained the province top3

Investigator

Environmental condition?

G7

Bad

Investigator

Urban construction?

G7

Good

Investigator

The standard of living of the urban residents?

G7

Relatively high

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

G7

Transportation convenient

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

G7

-

Q.4. How do you evaluate the urban air quality in Jinchang**Investigator**

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

G7

Improving. Now the plan, put forward living area northward, eastward industrial area. Continuing the annual greening particularly good.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

G7

Rather special. With the company's mineral aggregate information.

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

G7

Rhinitis

Investigator

How do you evaluate the sources of air pollution?

G7

Broadly, such as dust, and global climate change, ecological damage related. Water's sake, western environment.

Q.5. How about the economic development of Jinchang**Investigator**

How much the industry is important for the economic development of Jinchang now and in the future?

G7

Very important

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

G7

Very hard

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

G7

Very necessary transformation. The past few years has been exploring. Extend the industrial chain, lay the groundwork for the transformation. The Jinchuan economic impact on the city's share down

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

G7

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

G7

Moment will be, but in the long run, does not limit economic development

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

G7

-

Q.6. How do you see the rapid urban sprawl of Jinchang**Investigator**

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

G7

Yes. Not the bigger the better, should be moderate.

Replaced with a small satellite city center city.

Careful management of the city, they need to work hard.

Investigator

How do you see the great increase of number of housing every year?

G7

A large number of new housing is a rigid demand. But now many people still cannot afford housing.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

G7

Basically match

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

G7

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

G7

Threaten the environment

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

G7

In the existing system, is certainly dominant. Accounting for the role of policy-making decisions.

1. Recognizing a problem figuring out city location, development goals.

2. long-term planning, establishment phase, all levels of government to promote.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

G7

In the beginning, the city was established for the business services.

Enterprise itself has the responsibility to improve the urban environment.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

G7

Philosophical questions. Harmonious society

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

G7

Environmental protection is more important

Investigator

How do you see the importance of natural environment and environmental protection?

G7

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

G7

High. Green travel, use less plastic bags. City is very clean

Investigator

What environmentally friendly activities do you practice?

G7

Community organizations weekend pick up garbage. Save resources as much as possible in life.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

G7

-

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

G7

Certainly

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

G7

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

G7

Not really

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

G7

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

G7

None

Interview with G8

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

G8

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

G8

More than 10 years

Investigator

Do you have some ideas why this term was proposed?

G8

Social lasting, long-term use of resources

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

G8

Yes. Garbage classification. Large areas cannot do

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

G8

Both material and spiritual. Material level generally is sustainable development, spiritual harmony between people. Mental requirements are higher

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

G8

Contribute. Significant aspects of sustainable development depends on the person's spiritual level, harmonious society requires a focus on the spiritual level. Spiritual aspects of the use of residents increased, reaching sustainable development of cities.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

G8

-

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

G8

Policies that improve the quality of people in, but the results with the expected gap

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

G8

Yes

Investigator

Economy situation?

G8

Middle and upper

Investigator

Environmental condition?

G8

Formerly one of the top ten most polluted cities in recent years to improve the effect is obvious, very good

Investigator

Urban construction?

G8

Urban landscape pleasing, nice green

Investigator

The standard of living of the urban residents?

G8

In general. Social dimension, which is not diversified. Composition of simple, around the Jinchuan.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

G8

People honest, the pace of life is slow, easy

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

G8

The faces of city is narrow, not diversification, many aspects of missing faults. Education, the humanities are poor.

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

G8

Better than some worse than others. At least better than Maryland.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

G8

No significant change

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

G8

Rhinitis, irritability

Investigator

How do you evaluate the sources of air pollution?

G8

The first is industrial. Geographical factors also hand. Although many serious industrial pollution, but there are buffered against industrial pollution and swap places, such as green belt, wetlands, etc., but Jinchang no.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

G8

Pillar industries. Class mining industry, nor is it long, once and for all. If no other industry, it is difficult Jinchang long-term development.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

G8

No

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

G8

Certainly necessary transformation.

Enhance traffic, and promote the development of related industries, the establishment of ties things.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

G8

Yes. Economic development is always sacrifice the environment, but at the expense of the big and small problems.

Investigator

Do you think whether pollutants control would constrain the economic growth?

G8

It will. However, through technical means to reduce the impact. .

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

G8

-

Q.6. How do you see the rapid urban sprawl of Jinchang**Investigator**

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

G8

Yes.

Two reasons restrict the urban development: water and people

Advantages: people increase → industrial development → urban development

Investigator

How do you see the great increase of number of housing every year?

G8

Real estate repair large number of houses each year, but a lot of spare room.

Development of the city there is a bubble. On the surface in the expansion, the real expansion or not.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

G8

-

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

G8

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

G8

Threaten. Population increase → water consumption increased → underground water table descend → afforestation lag behind

Q.7. What is the role of government in urban development**Investigator**

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

G8

Leading role.

Cannot figure out why the Government has been spending a lot of money each year for street lights, do not plant trees.

Governments and businesses in economic development and environmental protection should be to find a balance point.

Control environment within repairable. To curb environmental pollution. A variety of trees.

Environmental protection departments: the development of the economy, but also to ensure economic development will not cause harm to the health of the residents.

Q.8. What is the role of industrial enterprises in urban development**Investigator**

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

G8

The development of the city leading role. But for the city's sustainable development has a negative effect.

Increase investment in environmental governance. Do finishing work environment.

Local corporate environmental responsibility very good.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

G8

Economy, culture, thought

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

G8

Jinchang neither long-term development depends on the economy is not dependent on the environment. But decided by the industrial model of Jinchang. If you continue to develop rough mad, no hope.

Investigator

How do you see the importance of natural environment and environmental protection?

G8

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

G8

Increased

Investigator

What environmentally friendly activities do you practice?

G8

In university, I had established environmental groups, fishing garbage into the sea, picking up the bottle. Jinchang did not do anything to the contrary.

Not disposable chopsticks, plastic recycling reuse.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

G8

A lot of time to do it cannot think of it. Habits, instincts.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

G8

According to the present situation is unlikely

Ideal model: an industrial center and surrounded by reInvestigator on agriculture. Industry-led, diversified industries.

Every industry has the city's pillar industries.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

G8

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

G8

Do not want to. I do not want to live here.

Humanities: Single

Economy: not good

Environment: Poor

Without a dominant character

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

G8

1 production structure. Industrial structure itself is not conducive to urban development

2 fewer people, fewer rural, fewer city, location is not dominant

3 harsh living environment

Q.12. Is there anything else you would like to add?

Investigator

What are they?

G8

None

Interview with G9

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

G9

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

G9

About 15 years

Investigator

Do you have some ideas why this term was proposed?

G9

Resource is limited

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

G9

Yes. Not visible

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

G9

A little hard to say.

Harmony between man and nature, agreed. To protect nature, human society to develop. Forward is a must, must take into account two aspects, but social progress takes precedence.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

G9

The easiest thing is to make the environment better. Makes the quality of life is high.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

G9

A certain sense, they are the same thing

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

G9

The most direct manifestation of people's life satisfaction of existing, or the happiness index. But in Jinchang concerned, as far as I understand, as long as Jinchuan company, few are not complaining, especially the grassroots workers. Jinchuan company has a great sense of unfairness.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

G9

Just OK

Investigator

Economy situation?

G9

The economic structure is too fragile, but left a nickel mine, there is no developed. Jinchuan Group is now virtually no plant in the money, a lot of plants on the loss of a few years ago.

Investigator

Environmental condition?

G9

Poor. I would like to talk about the feelings of the general public, and I work every day, a taste not go right, most intuitive.

Investigator

Urban construction?

G9

According to the population size of Jinchang City view, aspects also good. To high-end construction, it is not necessary.

Investigator

The standard of living of the urban residents?

G9

Not bad not too good, in general.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

G9

Small city, convenient transportation. Life stress is smaller

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

G9

Low income, poor air and water quality is not good.

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

G9

To see if there is wind. Air pollution control by the wind. Much stronger than in the past, but a lot worse than the surrounding cities, because of their industrial city.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

G9

Totally depends on wind.

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

G9

Chronic pharyngitis

Investigator

How do you evaluate the sources of air pollution?

G9

Production is inevitable, there will inevitably have to contamination. Only strengthen pollution control

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

G9

Pillar industries, 90% importance

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

G9

No

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

G9

No way to transform

Unless the development of a variety of resource needs are few industries, eg, IT industries. But this is impossible to the western industrial development in remote areas. So only the development of agriculture, industry, manufacturing. These have received limited resources, especially water.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

G9

Yes. The industrial area far shift subway commuter car.

Investigator

Do you think whether pollutants control would constrain the economic growth?

G9

Two faces of effect. On the one hand will limit economic development, affecting production. On the other hand, forcing restructuring and improve efficiency.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

G9

No

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

G9

Yes.

But the shortage of water resources, is a big limiting factor, it is not growing.

Investigator

How do you see the great increase of number of housing every year?

G9

Many of which are empty. State misappropriating.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

G9

Basically match

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

G9

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

G9

Jinchang surrounded by desert, urban sprawl, and the supporting water and greening up, would benefit regional environmental improvements.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

G9

Government is the boss, the government the final say.

Environmental protection departments, and many other sectors, plays lubrication. Avoid some of the problems became acute.

Address urban environmental pollution, should change their concepts, but also important government tasks.

Eg. 2013 Jinchang City investment mission is 100 billion, and normally it should be the task of the NDRC, but they are distributed to the various departments. Eg. Community casual, mission 15 million investment this year, it is impossible to complete.

Government Environmental Protection mere formality, cutting down trees flowers.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

G9

-

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

G9

1 The most basic criterion is that people themselves feel better life. Because people's senses are developed along with the development of society, and let the people feel good development, we should let the people feel that the environment at the time, they better life.

2 Powerful national force

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

G9

Focused on the development of go back and remediation. Residents moved elsewhere. Much of the world, "Gold Rush" City, no need to have been spent in this city.

Investigator

How do you see the importance of natural environment and environmental protection?

G9

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

G9

In recent years, environmental awareness is very strong. Eg. Out environmental monitoring, there are many passers-by to ask, but monitoring results published skeptical. Help people care more about the environment.

Investigator

What environmentally friendly activities do you practice?

G9

Travel own toiletries. Is able to save a little bit.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

G9

We can do is just to save some, limited capacity. Mainly by greater environmental protection efforts.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

G9

Transformation is also difficult. Unless I am President, give the power of Jinchang make the transformation. Eg. Moved several manufacturing over, improve traffic. After much deliberation, however, still does not pay.

Unless there is a substantial leap in technology, eg. Establish Space Port

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

G9

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

G9

Do not want to

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

G9

Water shortage. Water is the most critical, as long as there is enough water, even if industrial development does not survive, agriculture can be developed.

Expect technological innovation, convert water from other substances.

Q.12. Is there anything else you would like to add?

Investigator

What are they?

G9

None

Interview with G10

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

G10

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

G10

Several years

Investigator

Do you have some ideas why this term was proposed?

G10

Resource shortage

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

G10

Yes. Water reuse

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

G10

Desire is very beautiful.

Harmony between man and nature is a must, the human being has been a lot of lessons.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

G10

Determine a city's life.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

G10

Very close relationship. Sustainable development can improve the quality of people's lives, people's aspirations can be realized, happiness index increased, harmonious society.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

G10

The effect is very obvious. Cityscape get a lot of major change, the cultural life has greatly improved. Eg. Plaza Fitness Equipment

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

G10

Yes

Investigator

Economy situation?

G10

Very good, the golden child of motherland

Investigator

Environmental condition?

G10

Not very good

Investigator

Urban construction?

G10

Relatively backward

Investigator

The standard of living of the urban residents?

G10

Not high

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

G10

No traffic jams

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

G10

Information underdeveloped, transportation inaccessible, windy

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

G10

See weather forecasts are good.

Personal feelings, different seasons. Spring particularly bad.

Nearby are the agricultural city. Compared with Lanzhou, not a level. Jinchang environment is OK.

Compared with the past, much better.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

G10

Particularly poor in evening

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

G10

Yes, morning exercise, the air is very choking

Investigator

How do you evaluate the sources of air pollution?

G10

Evil money

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

G10

Jinchang industry is the economic lifeline. Next, Jinchang also important for industry.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

G10

Possibly can.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

G10

Must be transformed, transfer to tourism

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

G10

Need to coordinate

Investigator

Do you think whether pollutants control would constrain the economic growth?

G10

Will not. Because the control pollutant emissions can contribute to improvement of production technology, the better to promote industrial development.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

G10

Contribute

"Polluter pays principle". Even if he did not environmentally conscious people, but good environment for a relatively large desire.

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

G10

Should not expand too much, because the population is limited.

Urban-rural integration, not too urban sprawl.

Disadvantages relatively large, loss of arable land. Wantonly repair buildings, environmental damage.

Investigator

How do you see the great increase of number of housing every year?

G10

Desire is very good, you can control prices. But the foam is still relatively large.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

G10

Construction match, but the maintenance is very poor, the quality is not met.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

G10

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

G10

Threaten the environment

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

G10

Decisive role. Government how to say, how to do it. Did not listen to the professionals research reports.

Information developed, no public hearings.

Address urban environmental pollution, the government should intensify supervision. Now many just know that some of the data, but the data sources and reliability, are not well managed. Their own environmental protection departments should do their job, play a regulatory role.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

G10

Economic pillar.

Should increase investment in environmental protection, and promote process improvement.

Social responsibility and environmental responsibility is poor, the children of company executives are in a foreign country.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

G10

-

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

G10

Environmental protection is more important. People-oriented.

Jinchuan Many workers live less than 60 years of age.

Investigator

How do you see the importance of natural environment and environmental protection?

G10

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

G10

Residents constitute more complicated. Residents in rural areas to not very concerned about, if there is no conflict of interest with their own, do not care. Relatively high quality of life for some people, it would be more concerned about, sometimes reported.

Investigator

What environmentally friendly activities do you practice?

G10

Environment Day every year will do publicity, picking up trash.

Usually ride a bike.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

G10

Economic constraints

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

G10

Port Not possible

1. Government functional departments. Ideas for a term of leadership change

2. Economic constraints

Joint surrounding cities, to develop into industrial areas

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

G10

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

G10

Do not want to, environment is too harsh

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

G10

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

G10

City and countryside integration (the unified design between the city and the countryside), city people come to the countryside to live

Interview with G11

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

G11

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

G11

About 15 years

Investigator

Do you have some ideas why this term was proposed?

G11

The development of practical requirements. Shortage of resources.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

G11

Yes. Save water and electricity.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

G11

Resources are fundamental human existence.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

G11

Scientific concept of development. People-oriented.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

G11

Organic whole. Sustainable development is a harmonious society.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

G11

Good. Impact on thinking, promote recycling economy, a wide range of requirements.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

G11

Yes

Investigator

Economy situation?

G11

GDP per capita in Gansu province at the forefront

Investigator

Environmental condition?

G11

Not bad. But with a significant improvement than before

Investigator

Urban construction?

G11

Good

Investigator

The standard of living of the urban residents?

G11

Very good

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

G11

Small cities, fewer people, comfortable, easy go, suitable for living

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

G11

Not convenient for shopping and spending

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

G11

Overall not very good. Affected by the wind direction is relatively large. Good air there is a growing number of days than before. Joke: air by the wind!

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

G11

-

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

G11

-

Investigator

How do you evaluate the sources of air pollution?

G11

-

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

G11

Very important. GDP80% or more by industry. Industry is support economic lifeline.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

G11

Not big problem in 30 years

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

G11

It is necessary to make the transformation. An increase in production and the proportion of tertiary industry. Deep processing, extend the industrial chain, adjust the layout.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

G11

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

G11

Will not. Must now be environmentally friendly investments.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

G11

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

G11

Yes. Built-up area from 30-40km² to now 100 + km².

Planning should be reasonable, rational development, do not waste an inch of land.

Threat on arable land resources

Investigator

How do you see the great increase of number of housing every year?

G11

Every year, real estate development. Enough to live in a house, but there are people to buy.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

G11

OK. For large infrastructure investments.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

G11

There are idle lands. Originally the old zone, cottage.

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

G11

Help to improve the regional environment. But to do pay attention to environmental factors in the building.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

G11

Its duties have a significant impact on its quality.

Urban development is inseparable from the land, should be responsible for the management of land resources:

- 1 assurance requirements
- 2 to promote efficient use of land
- 3 combined services and law enforcement

Establish the scientific concept of development ideas, thinking and understanding. Work, people-oriented thinking.

Actively explore, circular economy, effective measures to promote transformation.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

G11

"Half Territory." Local industrial enterprises to improve the local environment as a whole plays a big role in improving there.

Government-Enterprise cooperation.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

G11

- 1 Civilized behaviour A harmonious social environment
- 2 fairness, justice, good order
- 3 to improve the quality of people

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

G11

-

Investigator

How do you see the importance of natural environment and environmental protection?

G11

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

G11

-

Investigator

What environmentally friendly activities do you practice?

G11

Saving energy and water

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

G11

-

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

G11

Philosophy, thinking is correct. Road is long, need to continue to explore.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

G11

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

G11

Following the child's wishes

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

G11

1 very dependent on resources, the need to continue exploration

2 water shortage

Q.12. Is there anything else you would like to add?

Investigator

What are they?

G11

None

Interview with G12

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

G12

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

G12

More than 10 years

Investigator

Do you have some ideas why this term was proposed?

G12

Relatively large areas, including the content is very extensive. Small city in terms of economic, social and environmental considerations fully, more conducive to the ecological environment, and economic and social sustainable development.

Now mentioning recycling economy, is this category.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

G12

Impact on lifestyle. Reflect on the small details: water, electricity, recycling, saving paper. Decision-makers rely on the large side.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

G12

Formulation more scientific. Interpersonal harmony, the harmony between man and nature. Is necessary, now moves in this regard. Although not all aspects are satisfactory, but convenient to the good development.

Harmony between man and nature: man is a natural element, in order to survive in nature, must be integrated into nature, so that human coexistence with nature to adapt. Conditions gradually improved, suitable for human survival and development.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

G12

Urban development and harmony to adapt. Environment must be habitable.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

G12

Complement each other.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

G12

Governments at all levels grasp relatively solid, has done a lot in this regard the real thing. Eg. Ecological residential area of the city, the gradual improvement of the urban green corridor ... the harsh climate, annual investment is also great.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

G12

Yes, prosperous. Geographical area is small.

Investigator

Economy situation?

G12

Economic output is not large, but fast development.

Investigator

Environmental condition?

G12

The natural environment itself is not good

Investigator

Urban construction?

G12

Ten years ago the concept and style of the city do not pay attention, more chaos. In recent years, focus on the city's image, change is relatively large

Investigator

The standard of living of the urban residents?

G12

Good. Improvement of the quality of people relatively quickly

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

G12

-

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

G12

-

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

G12

Industrial pollution + natural sand

In recent years, for better governance of dust.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

G12

Morning pollution is serious, the morning 6-10 am.

Especially in winter, when the wind is relatively small, pollution is obvious.

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

G12

Yes, respiratory, rhinitis, pharyngitis

Investigator

How do you evaluate the sources of air pollution?

G12

Natural climate + industrial pollution + domestic pollution (heating + car exhaust)

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

G12

Pillar, the main source of GNP

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

G12

Resource depletion is inevitable, the crisis is inevitable.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

G12

To consider the economic transformation, or from other places to look for continuation resources.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

G12

Yes

Investigator

Do you think whether pollutants control would constrain the economic growth?

G12

Do not conflict. Mainly in the concept. Pollution control is to pay some costs of production, which is a must. Industrial do bigger and stronger, we must control the emission of pollutants, their development is good.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

G12

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

G12

Yes. Is expanding every year, relatively fast expansion in recent years,

Inevitable process of urban development.

Advantages: To improve the economy and people's living standards.

Disadvantages: farmland, the expansion process, the use of resources is not reasonable, the utilization rate is not high enough, the intensive use of land is not enough.

Investigator

How do you see the great increase of number of housing every year?

G12

1. urban living standards improve, improve the living environment, relatively strong demand for housing. Consistent with the nationwide trend.

2. urbanization, population growth, demand for housing foreign population.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

G12

In recent years, government investment is relatively large, including roads, water and electricity supply of natural gas, basic synchronization. Local places there ahead of the place, no people, but the road has been repaired.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

G12

Yes. There is some. Abandoned basically useless, but not high degree of intensive use. Select some items are not allowed, the market is not good, the land on idle.

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

G12

Expanding too quickly impact on the environment.

But where there are favorable, eg. On the surrounding environment, bad governance, trash and garbage pits treatment.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

G12

Overall planning, development orientation, direction of development.

Implementation process, with the coordination of relevant departments complement each other and jointly promote the coordination of urban development. Infrastructure maintenance.

Response to environmental pollution: environmental governance, urban greening, personal qualities improve, putting larger.

Land departments: the protection of basic resources, manage and use resources

1. connection problem, prospecting and exploration
2. urban land protection (industrial, infrastructure, human settlements)
3. Agriculture, protection of arable land resources are relatively stable

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

G12

Pillar of economy. In its production process also done some work, environmental management, urban infrastructure construction, workers living care, and education.

Their own pollution control, to assume their responsibilities.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

G12

1. total economy increased personal income growth
2. employment, health care, Social Security, education, has increased
3. to improve the living environment, fit for human habitation, a better environment

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

G12

While focusing on, should not only boost the economy, but also make the environment changed for the better become beautiful

Investigator

How do you see the importance of natural environment and environmental protection?

G12

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

G12

Relatively strong. The annual two sessions have mentioned environmental issues. Care for the environment, garbage handling, are doing better.

Investigator

What environmentally friendly activities do you practice?

G12

-

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

G12

Habit. Habit decades, to change to a certain process. Habits and customs of thousands of years, eg. Streets burning paper money

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

G12

Possible

Ideal model:

1. beautiful environment, suitable for human habitation
2. city size is not too large

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

G12

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

G12

According to the child personal development circumstances

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang
Investigator

What are they? Why they are important?

G12

1. Resources continue to protect the long-term development
2. Pollution control

Q.12. Is there anything else you would like to add?

Investigator

What are they?

G12

None

Interview with E1

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

E1

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

E1

More than 10 years

Investigator

Do you have some ideas why this term was proposed?

E1

Before the development of our country is the first major development after treatment with certain predatory, eating rice descendants. Short period of time there will be relatively fast development, but the long term, the latter will backtrack.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

E1

Yes. Affected. Own understanding, economic development can not just immediate, depending on persistence.

The major impact on individuals is conceptually influence on behavior, the impact is not large, only pay attention to points in life habits.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

E1

Formulation very very correct.

Harmony is man and man, man and nature along.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

E1

Contribute. Harmonious society is a big concept, urbanization gradually improved and the city in the national economy plays an important role.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

E1

Harmonious society is certainly a sustainable society.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

E1

Philosophy, everyone has recognized. In Jinchang implementation, have the effect. Whether factory or municipal building, can be reflected. But the effects and expectations of the people there are still gaps. The main reason is the various levels of government and enterprises is not enough scientific evaluation baton, making good policy during execution aliasing.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

E1

Not very prosperous. Compare vibrant city.

Investigator

Economy situation?

E1

Economic conditions in Gansu, the better.

Investigator

Environmental condition?

E1

More severe. Industrial city, along with the expansion of industrial scale, a large number of imported raw materials, ingredients very complex pollution situation is not optimistic.

Investigator

Urban construction?

E1

As a small city, to meet the needs of municipal construction.

Investigator

The standard of living of the urban residents?

E1

Good in Gansu province

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

E1

Pressure is small, the slow pace of life. Eastern Metropolitan suitable for business, Jinchang fit life.

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

E1

1. industrial pollution. Although the effort, but from the fundamental solution, the objective is very difficult.
2. subject to geographical restrictions, relatively occlusion, the human concept is relatively backward, personal development potential is restricted.
3. From a sustainable point of view, does not have a competitive advantage, resource dependence is very serious.

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

E1

Compared with the past, has changed. Total economy is expanding, serious pollution situation is basically unchanged.

Thanks to investment in environmental protection in recent years.

With nearby cities than in agriculture, the air a lot worse.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

E1

Morning pollution is serious. Good day.

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

E1

Yes. Choked by smoke too, very uncomfortable. Usually been used, when the smoke enveloped a long time still feel uncomfortable.

Investigator

How do you evaluate the sources of air pollution?

E1

Jinchang Thanks mineral resources, mineral resources from pollution. The addition of a source of pollution that overseas raw materials, increased air pollution in Jinchang.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

E1

Important, essential. Everything now depends Jinchang and industrial. Government also proposed, in order to sustainable development, to the development of other industries, eg. Agriculture and tourism. However, the geographical conditions determine Jinchang, these two developments are not realistic. Recommended to get rid of dependence on resources, the development of other industries.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

E1

There is a big problem, it is challenging. There should be sense of urgency, because of traffic and technology, etc., are no advantage. Jinchang sense very early, so now trInvestigator to develop other industries, but still not out of the original nickel and copper resources. Still looking for alternative industries.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

E1

Must be transformed. Otherwise mineral hollowed day, that is the end of the day Jinchang.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

E1

Yes. Social development today, we have found that the environmental costs of economic development. Is not just a question of comfort, more health problems.

Investigator

Do you think whether pollutants control would constrain the economic growth?

E1

Short time limits. Long run, economic development is a positive interaction. If they match well, will continue to develop, will promote economic development. Conversely, a short time of rapid economic development, the latter will pull back economic development. So short impulse will be restricted economic development will promote long term economic development.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

E1

Yes, contribute to

Q.6. How do you see the rapid urban sprawl of Jinchang**Investigator**

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

E1

Yes.

Compared with east compared to may not be as fast. But the fragile environment in the western point of view, relatively fast.

I do not think this is a good thing. Because urban sprawl should be accompanied by economic development and population expansion. But now the urban sprawl somewhat Destructive Enthusiasm. Urbanization is not reinforced concrete and roads, but the eco-system, to make the development of life, the environment, self into a virtuous cycle of system, we live in the city, is the urbanization.

Investigator

How do you see the great increase of number of housing every year?

E1

China's strange phenomena.

Personally think not so much housing. Present housing needs have been met, but the real estate market deformity. First, fueling speculation the house, and second, we put the house as a pension and hedge means. Jinchang City residents have two or three suites many people, a lot of people not for real estate, but in order to preserve and increase the pension to buy a house. House should be something to meet basic human needs, protection of things, and now has become a financial thing, leading to deformity.

Now the house a lot, but still can not meet the rigid requirements, house prices are still rising, in fact, did not do policy-oriented.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

E1

Basically match

On the western fragile environment, the environment here can not afford big city.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

E1

Yes. Short idle there, but not much. But the invisible idle land (Basic does not produce benefits, but still use the land) more.

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

E1

If the elements of the coordination aspects of good, but not too fast to expand, improve the surrounding environment. Because the city has radiation effects, its economic strength and management resources used properly, it is certainly beneficial.

However, to avoid unscientific, does not comply with the law, human Destructive Enthusiasm-style expansion.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

E1

In China, the government is basically to conquer the world. Transformation of government functions is very important, otherwise both a judge and an athlete.

Government should be properly positioned to the left to the market to the market.

Government should combine Jinchang characteristics. Jinchang ultimate way, it might not industrial city. From a sustainable, it should be integrated into urban development, comprehensive multi-channel.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

E1

1. Improve their existing production, we can not ignore the environment, we should match the Protection

2 In full consideration profits, considering the income levels of workers under the premise, as far as possible the enterprises bigger and stronger to do it, can not simply talk about the scale of speaking rate, growth rate must be reasonable. But this point is that the enterprises Zuobulezhu, because the government the final say, the government will determine the enterprise will, in particular, relatively large state-owned enterprises ingredients.

3 The government aware of the problem, the government should baton scientific indicators do not always take only GDP, or the environment and sustainable development, always on paper.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

E1

Happiness. Not for the speed and economy.

1 affluence, there is some money, not a lot of pressure for basic survival (economic)

2 outside working hours, to have relatively abundant leisure time (rhythm of life)

3 have given the home, the environment around relaxed (Environment)

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

E1

For now, the environment should be given priority, since alternative sources have not yet found. The faster the resources consumed, the city destroyed the earth faster. And improve the environment, and help extend the life of the city, in the meantime to find alternative resources.

Investigator

How do you see the importance of natural environment and environmental protection?

E1

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

E1

Stronger sense, but put it into action is relatively small.

Investigator

What environmentally friendly activities do you practice?

E1

Tree planting, do not litter.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

E1

Want is one thing, actually doing the same thing. By two factors:

1 The higher the quality of life, the more time and money to do these things. The standard of living is low, no time and energy to do these things.

2 happiness thing. Pace of life issue. If life is a lot of pressure, time is very tight, do not do it.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

E1

Everything is possible.

Scientifically to adapt to the environment, it is sustainable. Eg. Desert plants have animals.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

E1

Do not dare to predict. No confidence.

But the city has grown to such a large, completely dead, impossible. There may be more prosperous, there may degenerate into a small town.

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

E1

If the child has the ability, or do not wish to stay in Jinchang.

1. environment is not very good

2. the city's uncertain future. While it is working, but the results do not know. Also Xu Jinchang City development is now the pinnacle

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

E1

1. Education

2. People's concept

Q.12. Is there anything else you would like to add?

Investigator

What are they?

E1

None

Interview with E2

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

E2

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

E2

Nearly 20 years. 2004 university study General Secretary Hu Jintao during the scientific concept of development, learned that sustainable development is an important part of scientific development.

Investigator

Do you have some ideas why this term was proposed?

E2

China's rapid economic development in the early twentieth century, in order to solve the economic development of the scarcity of resources, environmental pollution and other social problems, and taking into account sustainable development, stability and the future survival of the quality of the population, China from a development strategy level proposed sustainable development.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

E2

Yes, the first study of political theory at the University as well as party members and the training process, to understand the scientific concept of development is an important element of sustainable development.

Secondly, in their daily work, company units from the level of development strategy requires the whole group in the production and management adhere to the "science spending, eliminate waste" slogan, beginning in 2007, the full implementation of the paperless office information flow in the office supplies management and use and eliminate waste, paper pros use, energy saving company office is not open long light, participating companies at the "increase revenue" paper selection and other activities.

Finally, the concept of sustainable development is reflected in everyday life protection of the environment, public facilities, care, care of trees, saving water, saving lamps.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

E2

Harmonious social policy reflects the Chinese government put forward the social "livelihood" concerns, China's rulers understand China's future development should focus on development and social stability and people live and work, rather than vigorously pursue high GDP growth.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

E2

Then composition of the city is an individual, personal development is a necessary condition for the development of urban residents live and work is reflected in the education, health care, insurance, employment, pension and other areas of development, building a harmonious society is a large surface targets at improving the living , urban development is good or bad cannot rely solely on economic indicators, but also must consider the well-being of residents, so building a harmonious society for the city's development is very important.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

E2

Sustainable development and a harmonious society is the interaction, in order for sustainable development needs to build a harmonious society, and actively improve people's livelihood, people will naturally consider how to live a green, how to save, how sustainable development. Similarly, in order to build a harmonious society, to avoid future generations without the necessary resources available, no environment in which to survive, they should actively promote sustainable development.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

E2

Building a harmonious society in Jinchang implement more slowly, the intensity is not strong enough, rising prices, but the per capita wage income growth is low, health care is not an example to see what their concerns in the social insurance in recent years began to take shape, is not involved in the company for the social pension insurance pension insurance paid the families of employees to carry out work, employment company actively recruit employees' children, children of employees to solve the employment problem, which is doing better.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

E2

Yes. First Jinchang City's position in the country are small and medium cities, belonging to important cities in Gansu, Gansu Province, from the perspective of Jinchang is a relatively prosperous city, its total economic output, per capita income are located in Gansu Province in the forefront.

Investigator

Economy situation?

E2

-

Investigator

Environmental condition?

E2

-

Investigator

Urban construction?

E2

-

Investigator

The standard of living of the urban residents?

E2

-

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

E2

Compared with the eastern city, disadvantages than advantages, per capita income of the total economy, urban public facilities, urban commercial construction, power consumption, etc. are inferior to the eastern cities, but the degree of living comfort is concerned, Jinchang City residents better than the eastern part of residents of large cities, at least not to worry about the house, the eastern cities Jinchang price is several times more than price.

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

E2

Infrastructure is not good enough, but that it also depends on the population size of the entire city.

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

E2

Air quality is bad, spring dust, the annual air dry, and have some air pollution, but compared to 2004 years ago, Jinchang environmental management has been strengthened, indicators have control emissions, emission time mode with improved. Compared with the nearby Wuwei, air quality worse than, but agriculture Wuwei City Well.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

E2

The air quality in work during the day is better than at night, higher emissions than in the evening and late at night when the general.

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

E2

Yes, allergic rhinitis, to other places just fine

Investigator

How do you evaluate the sources of air pollution?

E2

Pollution emissions in the past few years the company has been strengthened control indicators, one needs to restructuring and listing, on the one hand in order to meet Jinchang Municipal Building civilized city.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

E2

Industrial economy in the past and is now Jinchang basic pillars of economic development, given the natural and geographical conditions Jinchang agriculture and tourism development potential in Jinchang small, so it can be said that the future of the industry for Jinchang pivotal.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

E2

I think we can, Jinchang current and past developments have on resource-based resources, the current reserves of mineral resources Jinchang not optimistic, but Jinchang currently actively seeking sustainable development point. On Jinchuan company, the company in addition to the development process in the local resources focus on improving skills and enhance the level of utilization of resources, but actively looking for local and external peripheral resources, and actively carry out circular economy projects, extend the industrial chain, the development of trade, the development of capital operation, to avoid future due to shortage of resources caused by the decrease in operating income.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

E2

Sustainable economic development to a certain stage of development, will inevitably face the transition from the past Jinchang resource-based cities to resource development, trade, manufacturing, processing industry, tourism and other industries coexist economic diversification city .

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

E2

Development inevitably faced with pollution, the cost of pollution control should be one of the development costs for health development can not develop after the first treatment, as this it will result in greater costs.

Investigator

Do you think whether pollutants control would constrain the economic growth?

E2

Development of an enterprise is comprehensive, enterprise development, including the improvement of the total economy, the improvement of financial indicators as well as the implementation of corporate responsibility and control of pollutants to a certain extent more difficult for environmental technology companies could reduce its operating income and other indicators, but their production operations compliance, social responsibility is necessary. So I think the strict control of pollutant emissions in accordance with laws and regulations on economic and industrial development is beneficial.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

E2

Environment is everyone's basic conditions for survival, I agree environmental costs into people's daily life, but I think the government and enterprises should bear the vast proportion of environmental costs.

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

E2

Take Jinchuan District, the Jinchuan District of downtown from 2000 before the 3rd District, the 5th District, moved to circling road, Jinchang City real estate business began in the northern industrial plant away from strong new residential, which is Jinchang due to the needs of residents, along with a large number of residential building, with people living on the corresponding add more food, shopping, development and construction of public facilities, this phenomenon is normal and is consistent with the development of Jinchang City needed, the advantage of facilitating the lives of residents, improve the quality of life and living environment consumer level.

Investigator

How do you see the great increase of number of housing every year?

E2

Normal, Jinchang City residents 80, 90 after the children of Jinchang City after graduating camera work, life, development and the inevitable need a lot of housing, there is a demand market, starting in 2008, the private real estate companies, Jinchuan , municipal and government in Jinchang city built a large number of houses north.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

E2

Basically match, but infrastructure needs to improve the variety and quality.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

E2

Yes, Jinchang City has much land, in the last the land worth nothing. But now, land to be worth a bit of valuable, idle construction sites are common.

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

E2

For in Jinchang City, I think that the expansion of the city but the role of the environment has improved, because of geographical conditions Jinchang most of the Gobi desert, the city's expansion but will expand green areas, help will not be fit for human habitation of the area improve matters populated areas.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use

and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

E2

Increase the environmental costs of inputs, strengthening environmental infrastructure construction, strengthen supervision, construction and development of small polluting energy processing industry, commerce, trade and other industries.

Investment, and actively develop light industry, farming, tourism, development of circular economy industrial chain.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

E2

For Jinchuan company, economic and environmental governance with grip, shoulder the responsibility for maintaining the social environment, improve the technical level, optimize productivity, optimize the industrial structure, develop recycling economy project investment in the project selection, feasibility, planning, production, operations during the whole process, and always will be the management of environmental protection as an important, strict control of environmental indicators, the development of flue gas, waste gas of the project, carried out sulfuric acid and other chemical projects.

For Jinchuan company, extend the industrial chain, to develop the supply chain industry, offering processing industry companies, trading companies, high-tech energy manufacturing companies to seek a breakthrough in the dependence on highly polluting heavy industry.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

E2

Social progress should mainly consider the quality of life of residents, residents' living environment clean, comfortable and convenient, consumer environmental justice, medical education employment environment policy concessions facilities.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

E2

Two complement each other, and common development, for environmental protection is more important Jinchang City, Jinchang blind expansion of total economic output at the expense of environmental pollution is not worth the candle, the Jinchang City's economic growth should meet the objective reality, economic development and environmental protect the same catch, if there is a conflict between the two, you should give priority to environmental protection, improve the quality of the living environment, people are more willing to stay in Jinchang, so instead favor Jinchang economic development.

Investigator

How do you see the importance of natural environment and environmental protection?

E2

Environmental protection for the environment Jinchang this innate weak constitutions of the individual concerned and, more importantly, it takes great effort to solve and improve.

Investigator

How do you evaluate local residents' awareness of environmental protection?

E2

Most people have some knowledge, but need to be further improved.

Investigator

What environmentally friendly activities do you practice?

E2

Do not throw rubbish everywhere, save water and electricity.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

E2

Residents are most of the time working hours, spontaneously implementation of environmental behavior is not an objective, the need for government-led or unit-led environmental protection activities, in general, most of the residents are willing to participate.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

E2

It is possible, with emphasis on government direction and policy implementation.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

E2

Yes, but tortuous process, the government, society and individuals common endeavors.

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

E2

Less desirable, in general, China is not living location west, while in the east coast.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

E2

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

E2

None

Interview with E3

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

E3

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

E3

Do not remember

Investigator

Do you have some ideas why this term was proposed?

E3

Developing countries must face the problem. Only now they have to have a good, but also consider the next generation.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

E3

Yes, affected.

Relatively large impact on the work of the State and enterprises policy. From the practical work to explore sustainable development.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

E3

Grassroots equality in the mainstream, we live in harmony. Deeper unclear.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

E3

Contribute. Jinchang City is developing very fast in recent decades, the face of change is very large.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

E3

In my understanding, almost the same. Both are to maintain social harmony.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

E3

Jinchang rather special, is a small city, more inaccessible, foreign affairs and information perception slower. Relatively rapid understanding of contemporary people, old people perceive relatively small. View from our generation, Jinchang has been relatively harmonious, more stable life. People around me have a consensus, the competition is not very intense, life is relatively calm.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

E3

From the perception point of view, is

Investigator

Economy situation?

E3

Economic conditions, more forward

Investigator

Environmental condition?

E3

Less than ideal. Environmental pollution is more difficult to change. Environmental protection investment is too large, while to enterprises to increase income, while called for increased investment in environmental protection. Enterprise smoke enveloped the top hat.

Investigator

Urban construction?

E3

Not good a few years ago, the trend in recent years, the country and engage in urban construction, urban civilization. Improvement is relatively large. Also repair many roads surrounding the future will continue to change.

Investigator

The standard of living of the urban residents?

E3

The price level is high, people think the general

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

E3

Relatively comfortable life, less competitive. Have a stable job and income, there are friends and relatives.

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

E3

Resource constraints. Sustainable economic model also exploring planned. Engage in cooperation in various regions of the world, but for now, the effect is not very good. People, unable to retain people, good people are out walking, outside recruiting good people do not come because of poor external environment, there is no high-wage, no good education, no good living conditions. Therefore, the problem of talent is a very important issue.

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

E3

Production capacity from 20,000 tons to 160,000 tons, production capacity increase means increased pollution. Jinchuan company is a comprehensive enterprise, will be accompanInvestigator the other subsidiary companies, chemical plants, power plants, etc.. But still produce a lot of pollution, it is difficult to avoid. Top hat tobacco plant is very serious, although Northwest wind, sometimes it is difficult to disperse the smoke hat.

Industry becomes developed, the more serious pollution. Although there are environmental investment, but could not keep pollution increases speed.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

E3

Numb, do not feel.

Residential and industrial separate house away from the plant so. Work environment worse, but came home from work a lot better. Before the old workers' homes are in the factory district.

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

E3

Yes

Investigator

How do you evaluate the sources of air pollution?

E3

Industries. Jinchuan company's pollution, pollution of processing industry is relatively small. Particularly copper-nickel smelting emissions generated by waste water is very serious. Wastewater before discharge tailings dams are now sewage treatment plants, sewage treatment plant has been in expansion, but still can not keep up wastewater discharge. Sulphur dioxide is a serious, highly toxic.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

E3

Very important. Because of lack of water in the region, agriculture is no big prospects. Therefore, development of the city to rely on industry.

But the sad thing is that now remains is to rely on the early development of the mining and rough to develop the economy, the raw ore mined Tempered he sold only provides a source of product, there is no deeper level of processing, so profit is very thin, earn a processing fee.

Ore imports come from the outside processing costs are high, and sometimes even processing fees are transferred out. Although now that international cooperation, but eventually acquired in nature, the nature of raw materials, there is no deep-seated.

The advantage of early development of technical content, nickel carbonyl, carbonyl iron, iron, titanium plant, but the product is a long process, etc. After the completion of the market has been occupied by others, and after a foothold in the market is still very difficult, personally very worried .

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

E3

-

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

E3

Necessary transformation. Development of high value-added, high-tech stuff. But the current situation is very difficult, attract top talent, we can come into contact with, are well-developed cities have developed some things, we just hear about things, to follow other people learn science, not have their own things, so very passive. Including many inland cities are, followed by foreigners learn to follow metropolitan school. Development needs of the process.

Our GDP includes tobacco, alcohol and tobacco, clothing, have no technical content. But these things have no role to play in wartime. Including automobiles, are learning with others, there is no proprietary stuff.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

E3

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

E3

Take reasonable manner. Not to say that control pollution emissions, economic development is not a. The need to control emissions, indicating that environmental protection is not put in place. Environmental investment premise of our business is not in place, and now and then to increase investment, corporate or not, is also very difficult.

Western countries, too, their development has also experienced a rapid development process, resulting in a very serious pollution, but later found the problem, spend a lot of money to improve the environment, the environment is very beautiful now. China is now moving in this direction, but the area is too big, too many people, so more difficult, requires more effort. But the good sign is that now the central government leaders aware of the problem, although down implementation will take time, but the direction is clear.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

E3

Appropriate, reasonable investment, can accept. But the company's pollution, people have no responsibility to pay. People's cost of living is too high. Has now been included. Eg. Beef noodle, no napkins provided. Tableware disinfection fees, people pay.

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

E3

Yes. In the continuously extending outwardly. Many of the surrounding villages are accessible by road, has been incorporated into urban areas.

Urban area expanded, residential areas can be relocation, living facilities, eg. Libraries, theaters and hospitals.

The formation of the old industrial zone industrial park, for the health of residents is beneficial.

Investigator

How do you see the great increase of number of housing every year?

E3

Comparative foam. I do not know how many people Jinchang, how much housing.

As far as I know, a lot of housing are treated as hedging or appreciation of the means to become a way to save money.

The bank devalued, investment is not a good solution, can only be used to buy a house, or a few years later able to appreciate a lot.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

E3

Feelings are not deep. Cities getting clean.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

E3

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

E3

Threats that impact on the surrounding agricultural population. Area, changing the peasant lifestyle.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

E3

Government departments should have a concept of urban development.

Personal understanding, government departments develop the local economy, increasing GDP, is the higher levels of government to subordinate government. The GDP index is placed in the first, or the interests of the residents on the first. If the first place the interests of the residents of the development will slow some, but the residents of happiness will be stronger.

Government departments should follow public opinion, people need to improve, we should take responsibility for improving environmental pollution, we must strive to implement contemporary people, or the contemporary ruin, the next generation need to continue their efforts.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

E3

90% of the GDP of local enterprises by Jinchuan, pivotal role.

Response to environmental pollution: to do the project, the EIA to be over. Accordance with national requirements, become norms lot. Old production facilities and improve the environment, but also do a lot of input.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

E3

Objective and impartial evaluation

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

E3

Not be placed in a starting line contrast. Both attendant, is a whole, can not be separated, the two must work together.

Investigator

How do you see the importance of natural environment and environmental protection?

E3

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

E3

Social behavior. The government's management in place, facilities in place, the residents of consciousness naturally increased. Need for government guidance and facilities, providing residents easy operation environment. Eg. Provide zebra crossing. Residents wanted to civilized people, but need the government to provide basic conditions. Environmental impact of human behavior.

Investigator

What environmentally friendly activities do you practice?

E3

Small thing, after dinner napkins less, do not throw. Start bit by bit.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

E3

Large environmental impact. Eg. Driving, we are open, they go with the flow

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

E3

Not comment. City people want a good direction, but actually doing things that might affect the city in the right direction.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

E3

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

E3

Look personal development. Development of the city to see if there are other industry support development of the city. Have an easy life, have a steady job.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

E3

1 Transportation, Northwest Territories remote traffic is not convenient. Many products used cannot go out.

2 people issues, human resources.

3 Comparison of water resources shortage. Industrial, domestic, urban greening, are threatened.

Q.12. Is there anything else you would like to add?

Investigator

What are they?

E3

None

Interview with E4

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

E4

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

E4

10 years

Investigator

Do you have some ideas why this term was proposed?

E4

China and the world are mentioning, we all feel a certain period of time development is not sustainable development, taking into account the development of future generations, proposed sustainable development. Including resource utilization, environmental protection, the development of the industry, the purpose of development. Xi Jinping stresses "China Dream", people live with greater dignity.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

E4

Influential subtle. People who work in the industrial sector, in terms of thinking how to make full use of natural resources, low carbon living life as much as possible.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

E4

Good idea. We have a harmonious living environment, friendly, and people respect each other. Shows that China's rise has realized that respect for human beings.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

E4

Harmonious development of the harmonious development of man and nature, including the city's influence is very large, especially relative to rely on mineral resources in Jinchang city so great influence. We must consider the industrial layout, environmental protection, including the transformation of the agricultural society, as well as industrial and social integration. Currently there is no such Jinchang government's ability and level, or that the time has not arrived yet.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

E4

Look extent, is the same.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

E4

In recent years, the inner city and suburban environment is improving, see Jinchang doing some effort. Also affected by sustainable development and a harmonious society.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

E4

Jinchang subject to many conditions, from the city entirely on mineral transformation requires a lot of money and a very long time.

Investigator

Economy situation?

E4

Economic status, from the person's income is concerned, you can. But speaking from the sustainability of development, there is also a big problem. Exist eg. Yumen same problem. If you made a very good decision now, probably repeat Yumen tragedy.

Investigator

Environmental condition?

E4

-

Investigator

Urban construction?

E4

Level of urban construction, China's urban construction are similar, regardless of the central city is still the same as Jinchang city. Urban construction level, the most fundamental manifestation of Man have a comfortable living. Jinchang recent years done a lot of work, housing and the environment a lot better. However, the impact of construction by China, but Chinese-style good.

Investigator

The standard of living of the urban residents?

E4

Living standards, but also, not too bad. In the west in the middle and upper level. Relative lack of cultural life, but in recent years has improved, Eg. Library and gymnasium, construction is very good.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

E4

Four seasons, dry and cool in summer, personal habits in this life

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

E4

Wind

Q.4. How do you evaluate the urban air quality in Jinchang**Investigator**

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

E4

In recent years much better. The original 80's, his face often tingling, acid rain.

Cities around the city are agriculture, the air is much better. Jinchang urban environment largely depends on plant sewage situation. In recent years, the company has invested 1.3 billion Jinchuan control smoke pollution.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

E4

Some evening and good morning. Usually at night when people are asleep, steal exhaust fumes.

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

E4

Living in the north of the city, now contaminated much less time.

Investigator

How do you evaluate the sources of air pollution?

E4

Smelter pollution + Natural environmental sand dust

Q.5. How about the economic development of Jinchang**Investigator**

How much the industry is important for the economic development of Jinchang now and in the future?

E4

Is very important. Jinchang enterprises, Jinchuan company accounted for a large part of the province's point of view, Jinchuan company is also one of the best.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

E4

Now towards sustainable development efforts. In the next 5-10 years should be able to be discerned, but the task is very arduous.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

E4

Certainly necessary to transform. Or found a sufficient mineral resources, or the accumulation of wealth must be in the process of doing something else.

Recommendation: big problem. Level of industrial technology to this stage, there should be a lot of room for development and selection. But this development is not able to influence the general population, the need of local government and business leaders pillar of knowledge, ideas and make important decisions.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

E4

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

E4

Concept has been formed, the impact of pollution on people too, must spend more money pollution. Now that the Government was very strict.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

E4

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

E4

Urbanization makes the city more and more. Many people in rural areas the process, in order to good health, education and living environment. Urban sprawl should be a good thing, but the most important is how people live better and more comfortable.

"We are the living, not the life of the people."

Investigator

How do you see the great increase of number of housing every year?

E4

Process requires a large number of rural housing, Jinchang but also to build a lot of room. Many people say that the house of excess, but I think 80% or rigid demand.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

E4

Supporting good. Eg. Winter heating, has been doing quite well. Jinchang large theaters and museums, are under construction.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

E4

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

E4

Regional environment conducive to the improvement. Eg. Double bay, community gardens, green particularly good.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

E4

Leading role in the absolute leading role. Chinese urban development are the same.

Address urban environmental pollution: industrial pollution, strengthen supervision and management. Life, garbage.

Need a lot of wisdom and technology. Hard to say.

Dependence on heavy industry city deal: pay more attention to local agriculture, agro-processing industries and small, to do some work in these areas. Jinchang great focus on the industry, as industry gains fast.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

E4

Major role.

Address urban environmental pollution: resource utilization, focusing on local protection.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

E4

Comfortable smile

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

E4

Both important

Investigator

How do you see the importance of natural environment and environmental protection?

E4

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

E4

Over the years, very good. Probably because by the plight too much.

Investigator

What environmentally friendly activities do you practice?

E4

Each industrial projects are related to the environmental aspects. Enterprise: wastewater treatment, flue gas emissions, dust control.

I myself have a good environmental habits: turning off lights, multiple use of water at home.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

E4

-

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

E4

Possible. Takes a long time

Ideal model: Like the rural environment, good environment, convenient residential living facilities.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

E4

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

E4

Now do not want to.

Human life is limited, and want their children to have a better living environment.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

E4

Surrounding environmental issues. Dust, the whole China issue. Eg. Beijing dust and haze.

Q.12. Is there anything else you would like to add?

Investigator

What are they?

E4

None

Interview with **E5**

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

E5

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

E5

10 years

Investigator

Do you have some ideas why this term was proposed?

E5

To the sustainable use of resources.

Resources, many people interpreted as mineral resources, which is one aspect. Jinchang rely on mineral developed cities, mineral resources is very important. Addition of water resources, but also restricts the development of an important reason Jinchang. Location, the two edge of the desert. Water is deteriorating, Jinchang by Qilian snow, and now the snow line rises. If water destroyed, Jinchang no water, even with mineral resources, can not develop. Now the greater the depth of groundwater, groundwater is now pouring with trees, will not last forever.

Human resources. Attaches great importance to human resources, although the surface very seriously, but specific practices, or with a gap between the coastal cities of the technical staff wages low, the brain drain. Long term, the development of enterprises and urban disadvantage.

I am more pessimistic.

National policies. Not really implemented. Eg. Western United States when developing a variety of preferential policies to attract talent to introduce enterprise.

Previously proposed to build "a hundred years Jinchang," Now look, variables and risks is relatively large. Jinchang hope can become good, but not optimistic about the future development of Jinchang. Many people have begun to buy a house in the field. Government glossy.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

E5

-

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

E5

Efforts achieved a lot.

Eg. Medical care, now able to do basic medical coverage.

Education, and take a lot of detours, the exam too seriously. Resources are not balanced, good teachers in big cities, developed areas and underdeveloped areas widening.

Differences between regions, environmental differences, differences in wages.

Building a harmonious society is a larger framework, the specific terms of implementation, there are many ways unsatisfactory, needs improvement. Eg. Corruption, people hated, is relatively sharp social contradictions, but no way.

Building a harmonious society, from the top to start. Currently effect remains to be discovered.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

E5

Harmonious society makes people live and work in a region, the basis for long-term development of the city, at least be able to retain people.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

E5

-

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

E5

Pension, health care, education, relatively good. But there are other aspects to be done.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

E5

-

Investigator

Economy situation?

E5

Economic conditions, economic output is relatively high. Follow the situation is not optimistic. Jinchang not particularly optimistic about the economy.

Investigator

Environmental condition?

E5

-

Investigator

Urban construction?

E5

Urban construction, with some improvement. But the city is not too large, I think the scale of the city can be, and can not be expanded, otherwise water will seriously keep up. Jinchang also belong to the state restrictions on the development of the city, should not be too large, otherwise the problem will be a lot. Nickel is a unique original Jinchang resources, and now the Nickel has not dominant. Nickel previously accounted for 80% of nickel production, and now accounts for only 20%. Copper basically rely on outsourcing, shipping is too high, low competitiveness. The development of enterprises should also be appropriate scale can be.

Investigator

The standard of living of the urban residents?

E5

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Investigator

What are the advantages living in Jinchang compared with large cities in east China?

E5

More leisure time, housing pressure is small, the working pressure is small

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

E5

Environment, dry, dry, wind, less economic fulcrum

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

E5

Improved.

Sulphuric acid production increased year by year, recycling sulphuric acid results. Wind small, serious pollution. Dry. Worse than the nearby city of agriculture, improved.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

E5

Good in daytime, night is relatively poor.

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

E5

I live farther away so at home is okay.

Has been used in the factory. Have a good understanding of the air pollution, but the reaction is not so strong. Came to this work, more sensitive, and now a long time, have become accustomed to. Vast majority of workers in order to survive in this regard is not particularly demanding. Impossible to breathe good air, the factory closed.

Investigator

How do you evaluate the sources of air pollution?

E5

Industrial smelting. Sulfur dioxide and other emissions. Process facilities behind. The new results were better pollution control equipment.

Night unawares put gas in the evening chimney smoke.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

E5

-

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

E5

Could not resist.

Of fragmentation, local protection, control of resources in the country to do well. Domestic inexperience.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

E5

Jinchang suitable for its present size, because the area is no advantage. China from the Han Dynasty, the western environmental damage has already begun, particularly vulnerable ecosystems. Now engaged in industrial, wantonly destroy the environment, not a good thing.

No other advantages, only suitable for transfer. Industry, agriculture, domestic water increase, rising snow line Qilian Mountains, the entire Corridor have this crisis.

Wind power, solar energy, new energy development, prospects, uncertain. To prepare for the subsequent development, the Hexi Corridor into a "energy corridor", the Three Gorges generating capacity is expected to more than bigger. Do not know if I have considered from the perspective of the national strategy, do not know if I have argued, should avoid detours. Eg. Solar technology, we are using the original technology, energy consumption, pollution, the United States has no need.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

E5

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Investigator

Do you think whether pollutants control would constrain the economic growth?

E5

Short period of time will certainly limit. But if not now, after the cost will be greater. Companies can not only consider economic development, but also consider their social responsibilities. Eg. Mills pollute the water, many people do not drink, cannot be estimated too costly.

Businesses can not represent the whole society, which only consider their own benefits.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

E5

-

Q.6. How do you see the rapid urban sprawl of Jinchang**Investigator**

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

E5

Yes

Family area northward, eastward industrial area.

Investigator

How do you see the great increase of number of housing every year?

E5

Now built a lot of houses in the future is also a big problem. Many small towns are higher than prices Jinchang, indicating Jinchang real estate oversupply. Jinchang lot of people have two suites. Urban sprawl is no plan.

Government to encourage real estate, because the GDP pulling too. Real Estate temptations government.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

E5

Okay. Basic package. For drainage systems that require low.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

E5

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

E5

Urban sprawl consumes more resources and threaten the environment. In Jinchang, inappropriate expansion.

(1. Improve the environment, eg. Residential environment)

(2. Consume more resources, eg. Water and living resources)

Q.7. What is the role of government in urban development**Investigator**

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use

and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

E5

Government-led, planning, execution. Government should play a supervisory role.

Now businesses projects are government action. Government enterprises, is a big problem. Government in order to performance, too much courage economic development. Should stand in the position of local residents, now fight for the interests put forward obligations to the enterprise, eg. Strive for employment, medical care and other opportunities.

Government now is: "If you develop the economy, the other question I give you a solution."

Government's responsibility is large, not just focus on economic development. Position should change, improve enterprise development threshold.

Address urban environmental pollution: the government is to maintain the local economy, the government is now half-hearted, polluting enterprises should strictly monitor and punish. Now, because the government is too important to the local economy, the "dilemma", can only hope that the interests of vulnerable groups.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

E5

Leading role. No industrial enterprises, Jinchang development is impossible. The city's revenue by business, then put money into the local.

Address urban environmental pollution: Companies should positive.

1. The introduction of advanced technology, turning waste into treasure.
2. Environmental governance, my own ideas, some technologies can be shared through research and development. From national and even global point of view, the importance of the entire western environment. R & D is now too small.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

E5

1. Survival problems, stable income, have housing
2. Cultural improved. Many long-standing Chinese culture should be inherited. Later, after the Cultural Revolution and the reform and opening up other activities, there have been cultural missing, then moral faults and a series of questions. In addition to many acts of people rely on the law, often by moral constraints. Atheist country, no religion, wretched fear, but also exacerbated many problems. Cultural loss now too.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

E5

-

Investigator

How do you see the importance of natural environment and environmental protection?

E5

Protection is more important. Involve the entire Hexi Corridor, Gansu Hexi Corridor development is a good place. Location is very important.

Investigator

How do you evaluate local residents' awareness of environmental protection?

E5

On lip, concrete action is lacking. Most is whine.

Investigator

What environmentally friendly activities do you practice?

E5

Save water and electricity, with the bags. More concerned about.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

E5

I do not know where to start, no energy, no experience. Sometimes particularly want to do, but do not know how to do.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

E5

Unlikely. Bad location. 2030, nickel resources run out.

Leaders in the field to buy a house, they are not optimistic about Jinchang, rulers have lost confidence.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

E5

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

E5

-

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

E5

Water resources, mineral resources, human resources.

Q.12. Is there anything else you would like to add?

Investigator

What are they?

E5

None

Interview with E6

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

E6

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

E6

In some meetings have heard, there are about 5,6 years

Investigator

Do you have some ideas why this term was proposed?

E6

Our country's economic development, the development of East-West differences, countries have put forward the western development, macro-economic balance.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

E6

Affected. Social development, economic conditions improve, individuals living standards will be increased.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

E6

Reality, is necessary. Since reform and opening, proposed the concept of national development, east and west are great differences in personal wealth gap appears, there is a potential disharmony. Therefore proposed to build a harmonious society.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

E6

Urban, working-class more. Harmonious development later, we reduce the gap between living standards, to facilitate mutual communication and understanding people.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

E6

Only sustainable development, and economic stability, and in order to achieve harmony. Material things are not met, cannot reach the spiritual level. Physical level to the spiritual level.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

E6

Consider much farther. From planning to implementation, are doing better.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

E6

-

Investigator

Economy situation?

E6

In the upper. Two, three-level cities.

Investigator

Environmental condition?

E6

Environmental conditions, as an industrial city, lower-middle. Compared with other cities, relatively poor, their natural environment is relatively poor.

Investigator

Urban construction?

E6

Level of urban construction, the new industrial city planning relatively high starting point, the better.

Investigator

The standard of living of the urban residents?

E6

Good

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

E6

No advantage

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

E6

Environment and climate, the low income, frogs in the well

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

E6

Poor.

Worse than the surrounding city. Compared with the past, has greatly improved. Pollutant sources, in recent years has done a lot of effort.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

E6

Better during the day, evening relatively poor. Night put fumes.

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

E6

Very often. Least once a week, more serious pollution, when wind direction is wrong.

Investigator

How do you evaluate the sources of air pollution?

E6

Industrial city, the factory emissions, sulphur dioxide.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

E6

Very important, pivotal role. Industrial strong city, plays an important role.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

E6

Could not

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

E6

Jinchuan company can sustain 20 years. Now so many resources.

Advance planning, development characteristics, eg. Industry, Tourism, photovoltaic power generation

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

E6

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

E6

Yes, will restrict

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

E6

-

Q.6. How do you see the rapid urban sprawl of Jinchang**Investigator**

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

E6

Yes, but is the limit, unable to attract foreign investment.

Investigator

How do you see the great increase of number of housing every year?

E6

Would not have a large number of new housing any more.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

E6

Do not match. Expanding too quickly, infrastructure lag, eg. Roads, water supply

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

E6

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

E6

Gobi Desert, no threat

Q.7. What is the role of government in urban development**Investigator**

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

E6

Bridge, a link role. Now only rely on heavy industry.

Jinchang city planning, is now doing fine.

Response to urban environmental pollution: take substantive measures and methods, rational planning

Q.8. What is the role of industrial enterprises in urban development**Investigator**

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

E6

Leading role.

On environmental pollution to be willing to invest, the urban environmental pollution control project, to eradicate.

Important production processes, the introduction of advanced equipment and technology.

Jinchuan corporate social and environmental responsibility, is still relatively strong.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

E6

1. Happiness

2. Higher income, pension and health care is guaranteed

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

E6

Environmental protection is more important, otherwise the environment will become increasingly worse.

Investigator

How do you see the importance of natural environment and environmental protection?

E6

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

E6

Awareness is not high. Concrete behaviours are not enough.

Investigator

What environmentally friendly activities do you practice?

E6

Saving electricity and water

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

E6

Human consciousness, great atmosphere. Perception problem

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

E6

Possible, but very slow, the task is very arduous.

Ideal model: environment, environmental management, greening plan. Construction of a new industrial park, demonstration garden. Industrial and separate living area. With the westward movement of national economic policies, the development of other industries.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

E6

Impossible, in recession. Mineral depleted, unless there is a new industry, or resource-based cities will gradually decline.

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

E6

Do not want to.

Poor natural conditions, drought, environmental pollution..

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

E6

1. Harsh natural environment

2. Region, western, away from the economic circle, remote, high freight.

Q.12. Is there anything else you would like to add?

Investigator

What are they?

E6

None

Interview with E7

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

E7

Yes

Development of a city requires a certain pillar industry in the industrial development on the basis of urban residents have a good living environment and a good place, the happiness index increased.

Investigator

If yes, can you remember when did you notice this term for the first time?

E7

10 years

Investigator

Do you have some ideas why this term was proposed?

E7

Fewer resources on the planet, people are caused by over-exploitation and utilization of ecological degradation, including water and is directly related to people's lives, resources, many of which are non-renewable resources, not only we have a good environment, but also to leave our future generations a good environment and development opportunities. It should be said that sustainable development is the benefit of future generations.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

E7

-

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

E7

Has been proposed to have five years. Concept is very broad, affecting all aspects of life.

Harmony between man and nature, and sustainable development is closely related to man and nature meet "Heaven", who is also part of the Earth. People in resource use has caused a lot of pollution, should now strive for harmony.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

E7

Contribute. Beautify the urban environment.

Jinchuan company in 2009 raised, but also people, "blue sky." Since then spent 2 billion for environmental governance.

Now fully recovered sulfur dioxide into sulfuric acid.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

E7

-

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

E7

-

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

E7

-

Investigator

Economy situation?

E7

Economic conditions in western China Jinchang important, but also make a significant contribution to the country's cities. Jinchang praised Deng Xiaoping in the 1990s was "golden child of the motherland," Premier Wen Jiabao in 2009 during a visit to Jinchuan Science Park, praised Jinchang was "proud of the motherland." Jinchuan Nickel global company producing the fourth largest, China accounted for the first one. Therefore, the status of the country Jinchang very important.

Investigator

Environmental condition?

E7

Environmental conditions, in general, good. Livable city with a standard there is a gap. Located in the desert, water shortages, dusty, the natural environment is limited. In recent years in Jinchang Jinchuan Corporation and the joint efforts of the municipal government, the transformation of the urban environment effect is more obvious.

Investigator

Urban construction?

E7

Level of urban construction, planning better level Jinchang Jinchuan company planning worse. Convergence with the city is not good enough. Transformation of the street environment, East Lake, Mine Park, People's Square, Jinchang city government is also working to transform the urban environment.

Investigator

The standard of living of the urban residents?

E7

Residents living standards are relatively high. Jinchuan's great contribution. Amateur cultural life more abundant.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

E7

Low house price

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

E7

Poor natural environment, water scarcity, traffic is not convenient, the information is not clear, there is no other industry support (underdeveloped agriculture, tourism no resources)

Q.4. How do you evaluate the urban air quality in Jinchang**Investigator**

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

E7

Much better than before

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

E7

Poor in the morning

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

E7

Previously, cycling will pungent taste, the smell now.

Investigator

How do you evaluate the sources of air pollution?

E7

Natural Environment + Industrial Production

Because only the industrial city, before the old technology and old methods are used, the factory set up, they had no concept of environmental protection, environmental impact is relatively large. Over the last few years to transform technology, environmental protection, wastewater emissions of solid waste recycling. In recent years, many new projects on the environment specifically targeted.

Q.5. How about the economic development of Jinchang**Investigator**

How much the industry is important for the economic development of Jinchang now and in the future?

E7

-

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

E7

-

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

E7

Must transform.

Government, in addition to minerals, no other resources available. From an economic pillar, it is nothing more than industry, agriculture, services, commerce. Jinchang In addition to industry, no other pillar industries.

Enterprises, certainly is to maintain sustainable development. Resources are limited, companies find a way.

1. In foreign countries through a variety of ways, to get the right resources exploitation, buy it or holding shares.
2. Product deep processing efforts to create depth industry chain. The original production of copper nickel plate just now to produce copper rods and wires, nickel buckle nickel powder.
3. Use the advantages of the product itself, can be used directly to produce their own products, eg. Batteries

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

E7

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

E7

No, conversely, if done well, will promote economic development.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

E7

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

E7

Yes

However, each city's expansion are based on resource-based, resource capable of supplInvestigator the city's expansion to expansion. Jinchang resources are limited, and can expand too much, there must be a limit. Take water, it can only supply a certain number of people's needs.

Investigator

How do you see the great increase of number of housing every year?

E7

On the one hand Availability many other residents cannot afford housing. In recent years, the real estate downturn, but just the work of young people still cannot afford housing. Renting is a good way, but the Chinese tradition, "live", to buy a house in order to ease the work.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

E7

Basically match

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

E7

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

E7

Is not necessarily a good thing, may pose a threat. China's population, more and more arable land less and less.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

E7

Local governments do a lot of work, indeed empathy for the residents to do some things.

Address urban environmental pollution:

1. the service functions for the residents for business services.

2. the guide functions, through a number of policies to encourage enterprises to contribute to environmental protection for the city.
3. the regulatory function.

I think this is the most **basic of the three functions of government**. If the business did not do, damage to the environment caused by pollution, it is necessary to take effective measures for punishment or to make it standardized. Government guidance and standardize enterprise, Jinchang advantage is the government and enterprises can sit down together to negotiate on many issues of communication. Many other cities, is unlikely to achieve the government and corporate consultations often take some coercion.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

E7

Jinchuan company's annual tax 20 million or more. Many residents in favor of the construction project, Jinchuan company will provide some funding.

Jinchuan companies to prepare themselves, the city on the corresponding good. His own factory environment well, Jinchang environment just fine. Transformation of the old, backward technology, investing 2 billion to build "blue sky" project. Jinchuan company city is very responsible, responsible.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

E7

1 habitable environment

2 people happiness index rising

3 Freedom

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

E7

Long term, environmental protection is more important. But the economy can not do without. Both should be synchronized.

Investigator

How do you see the importance of natural environment and environmental protection?

E7

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

E7

Environmental awareness is growing, people are increasingly concerned about environmental protection. Residents Jinchuan evaluation of environmental governance is relatively good.

Investigator

What environmentally friendly activities do you practice?

E7

-

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

E7

There are ideas, habits problems

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

E7

Can be achieved

Ideal model:

1. Industrial structure is not a single
2. Strengthening environmental governance
3. Industry orderly operation

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

E7

Certainly that history is progressive.

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

E7

(Laugh, you want it?)

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

E7

Resources, industrial structure

Q.12. Is there anything else you would like to add?

Investigator

What are they?

E7

None

Interview with E8

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

E8

Yes

This generation of people eat their own bread, do not eat the next generation of people. Natural and social aspects of resource allocation, not ahead of consumption, to achieve a balanced and harmonious. Do not vigorously promote something, to comply with the laws of nature. There is a sequential process of social, human and natural harmony.

Investigator

If yes, can you remember when did you notice this term for the first time?

E8

Nearly 20 years

Investigator

Do you have some ideas why this term was proposed?

E8

Human society is a certain region or a certain stage of development, social managers must consider. For example Jinchang popular water restrictions, so each project must consider the issue of water, Jinchang urbanization, certainly has its limitations, water cannot be bought. Jinchang economy must be developed, but to consider water, mineral resources, transportation and other aspects of the factor.

Sustainable development requires the whole community to consider.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

E8

Mainly on the impact of the concept is relatively large. Relatively small impact on behavior. The impact on business and society, requires certain functions and responsibilities can be achieved.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

E8

In the period of social transformation across, is very important. National level has recognized these problems and proposed timing of this concept is very good. But now personal feelings, saInvestigator much publicity in this regard are doing better, but the measures are not very specific.

Harmony between man and nature: people should respect nature, in harmony with nature. If my wife over a region of natural interference and adjustments, is bound to impact on the ecological environment. Must therefore be moderate development, moderate interference naturally, for the moment, people do not change the laws of nature, can only partially improve the natural condition.

For example Jinchang, no matter what aspect of development, we must consider the issue of water. Make the environment adapt to the changes made to its people. Specific measures, our country is still doing enough. Some say more concrete and effective measures need to be further strengthened. In recent years, from the national level to the local level, have attracted attention.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

E8

Specific to Jinchang, it is very important. Jinchang social contradictions is not so prominent, relatively speaking, the uneven distribution of social wealth, the wealth gap is relatively large, the government must do the work of coordination and balance. Therefore, a city of immigrants, the immigrant population are more complex composition of the population. Therefore, for the city's social harmony and stability is very important. Government regulation, management, guidance, more important, is the government's social responsibility.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

E8

Both have some relevance, but the focus is not the same. Relatively speaking, the aspects of sustainable development, including some more, including natural resources, social. Harmonious society, focusing on the humanities are more emphasis on the relationship between man and man, and government relations, and community relations.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

E8

Jinchang there with the socio-economic relations, but also, and people's quality of a relationship, but also, and the government's ability and level of a relationship. Jinchang as relatively upper, relatively high levels. In contrast, relatively closed society, better economic conditions, the average educational level is relatively high (level of education, high culture immigrant population), the new city planning new construction, relatively good condition. The crime rate is relatively low, between people to get along better. I am quite satisfied.

Q.3. How do you evaluate the status of Jinchang in western cities of China**Investigator**

Do you feel that Jinchang is a prosperous city? Why?

E8

Now, yes

Investigator

Economy situation?

E8

Overall, the economy is good, a good degree of civilization.

Investigator

Environmental condition?

E8

The natural environment, there are inherent deficiencies. In the west of the city in the same grade, Jinchang living conditions are better.

Investigator

Urban construction?

E8

Urban construction, is not ideal. Historical reasons, the industrial city in the nickel mine development period, without taking into account the present situation, urban construction is not good, innate good. According to the current residents of the city and the environmental requirements of view, the construction was not good. But in recent years in an effort to make improvements, urban relocation, industrial zones eastward. However, because of the water restrictions, urban green spaces, gardens, squares and other construction, more difficult.

Urban planning is very important, if there are problems inherent planning, post-change is very difficult. In fact, in 78.79 years been proposed, but at that time did not adopt the decision-makers, there are also restrictions on financial and other reasons. Overall, the human understanding and concern. Therefore Jinchang change is very difficult, can only be gradual.

Investigator

The standard of living of the urban residents?

E8

Living standards, is relatively high, housing, education, medical care, travel, medical, all aspects of living are better. Basically No college. Eat, it is now not the pursuit of luxury to eat, but the pursuit of simplicity, health technology. Relatively speaking, the environment is worse.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

E8

Not much advantage. Low prices, the price is low. Work travel convenience. A lot more disadvantages than advantages

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

E8

1. Natural environment is poor, urban pollution by industry
2. Located in the western, travel inconvenient
3. The long run, is not conducive to the development of children (people are more tangled problem Jinchang, Jinchang anyone nostalgia, but who do not want children to stay here) "cultural guide" very important.

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

E8

Air quality and I am rather proud of. After three years of efforts, the air quality has been fundamentally improved. 2000-2005, Jinchuan company's rapid growth and expansion process caused some problems, there are 80.90 years was not addressed in the development of sequelae, overlay view, 2003-2005 In recent years, the worst of times is the environment. Through the efforts of the past few years, invested a lot, environmental remediation of the overall program is what I do, investment is not wasted.

From the current and staff, and local residents chat, as well as according to test data, air quality has been greatly changed. Originally, air quality three are not, in 2011 close to two in 2012 to reach two standards. Sulfur dioxide last year reached 0.058mg/m³, national standards are 0.06mg/m³, as a mining town, was not easy. Now Park Road to the north, the air quality is very good.

Investment in environmental protection (focus on major issues):

1. Sulfur dioxide flue gas treatment. Was more prominent issue, accounting for over 50% of the investment. National standards should not be across the board, should be treated differently, worth exploring. From the side view, the sulfur dioxide pollution is not very serious, with Beijing and Shanghai should be differentiated. Northwest is alkaline soil. Of course, not a lot of emissions, I think in terms of sulfur dioxide flue gas treatment, boilers, power plants, without treatment. East must be harnessed, because the environment cannot withstand the environmental capacity does not allow it. Jinchang more open, wind, sulfur dioxide pollution is not very concentrated, not very serious.
2. Water governance. Water impacts more significant impact on groundwater, the impact on the environment is irreparable. Jinchang water shortages, nearly 1/3 of the capital.
3. 1 / 5 for other solid waste in a comprehensive way.

Overall, I am quite satisfied. Of course, the need to continue to do environmental work, environmental governance is endless, different periods have different goals, and the request is in harmony, it is a sustainability issue. Because the human demands on the environment with the development of socio-economic situation will be improved.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

E8

Change is not too large, relatively open, the wind is relatively large. Seasonal variation is relatively large, summer and spring, Dongfeng some more, have some impact. Every performance is not outstanding.

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

E8

-

Investigator

How do you evaluate the sources of air pollution?

E8

Caused by the metallurgical industry.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

E8

-

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

E8

Certainly cannot resist.

Jinchang economy = Jinchuan group

Resources are expendable, Jinchang economy has maintained prosperity now, it is difficult to do, because resource-based cities will experience uphill and downhill. Disadvantage is obvious, from the market, away from economic centers, and certainly decline. Required under the management of a very large city effort. From now on to do, work hard, think of how to do 20, 30 years later. Can do now is try to make it downhill slowed, affecting peace and some time to stretch some of. Strictly speaking, the economy will certainly decline.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

E8

Must be transformed, we must now turn. Can think of now, it is necessary to plan to do it immediately. To spare no effort to make great efforts to do so. Resource-based cities, consuming very fast. While fostering a regional economy is very slow.

Be sure to set aside now a pillar industry (in the future to break the industry), do not want to, do not rely on. Re-built system. If you buy from the outside material processing, even the staff cannot feed. Alternative industries, cannot do, as far away from the market, transportation difficulties. Be sure to follow the economic laws of the market in which to go where to do. If no benefit is not preceded by a resource, we are unable to make alternative industries. To combine local resources and technology, considering the development of highly sophisticated high-tech industries. Eg. Electronic, mechanical, mining transport trucks, is now doing well, but attention is not enough. Take advantage of the economy in the prime of life, when the development of other industries, such as occupy a certain market share and influence, it set aside the local resources into new areas.

Need for government managers, who need to consider the high level, the provincial government of people to consider. Local government officials term of five years, malpractice is very large. Economic reforms, we must reform the political system. A lot of things are all caused by people, who are the most active social and economic factors, and sometimes also the most harmful factor if people starting point, the ideological level, the level of awareness, technology has its limitations, if the person to a certain status and privileges when his decision will affect a large development.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

E8

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

E8

Simply put, balance coordination problems. Seemingly simple solution to deal with them very difficult. Environmental Economics.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

E8

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

E8

Yes, government-led, expanding too fast.

Must be appropriate and balanced. If in Jinchang this almost unfit for human survival where the city expanded too big, once the economy going downhill, the city is very dangerous. Excessive expansion of the city, is the prime of life earned money into a cement house (construction, operation, maintenance, are required fee, and no income). Should take the financial means to guide money into the industry. Certainly like to take prime time, the development of industry.

Investigator

How do you see the great increase of number of housing every year?

E8

-

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

E8

-

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

E8

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

E8

Advantageous, because its natural environment is very harsh. Urban planning and greening will improve the regional environment.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

E8

Leading role. Select a place number one, be sure to choose the right and rational. The money is now used in good industries. Government, business, personal, prime of life in the city have to consider these things, cherish prime of life earned money, promising development projects and industries.

All of the dry matter, government regulation of industrial pollution control companies do a good job. Try not to adopt the government's opinion, because the company are based on their own interests. Government should unified planning, things that belong to the scope of Jinchuan company, require the company to do it. Jinchuan company's decision, it should obey the government planning and arrangements.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

E8

-

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

E8

Social progress is the historical trend is forever, but advances in speed, effect size. China's social progress is very fast, but the progress in the process paid a lot of consideration. Should be "stable", there should be planned to follow social progress, economic and cultural aspects of the law. The place is very much worth reviewing, emotional too many things, not sustained, the various stages of convergence is not enough, or has a relationship with the political system.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

E8

Economy should be appropriate to balance economic development and environmental protection. The main solve the water problem.

Investigator

How do you see the importance of natural environment and environmental protection?

E8

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

E8

Relatively strong, with special attention.

Investigator

What environmentally friendly activities do you practice?

E8

-

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

E8

-

Q.10. Can you describe a model of sustainable city for Jinchang
Investigator

Is it possible to achieve sustainable development in Jinchang?

E8

More difficult, away from the market, away from the economic center, away from the centers of consumption. Business management, personnel, location, have no advantage. Sustainable Jinchang not optimistic.

As incumbents, and certainly hope to develop faster, with little faster, institutional issues. Should do is to put existing resources planning is good, we must not go too fast, we must control resource use intensity. Of course, this is more difficult, if I were decision-makers, I find it difficult to do so.

So, what to do next, governments and enterprises must carefully consider. In the prime of economic development, development and less dependent on local resources industry. Reasonable co-ordination of funds.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

E8

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

E8

Speaking from the heart, not hope. But from the pressures of life, is relatively closed in terms of the level of childhood, and some nostalgia. But long term, resource-based cities has its flaws, even the best mines have resource depletion day.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

E8

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

E8

In these topics, the more people realize that, but not many people know in place, and doing even less.

Not only to reform the economic system, the political system is also necessary to reform, it is the deepest problem.

Interview with E9

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

E9

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

E9

10 years

Investigator

Do you have some ideas why this term was proposed?

E9

In the past, when the country's development without taking into account environmental factors, without considering the high energy consumption, developed to a certain stage, high energy consumption and high pollution restricting economic development. Like the South coast have emerged such problems, although the economic development, but the environment is a serious threat, affecting people's lives and development.

Ensure economic growth rate, there are certain profits and taxes, there are certain industries competitive, and environmentally friendly, and green.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

E9

Affected. The project is of particular concern in the evaluation of environmental factors, is not high energy consumption, there is no competition. Just more concerned, there is no decision-making level.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

E9

Harmonious society is the world's development goals, made our country is also very necessary. The contradiction between supply and demand imbalance, imbalance between income distribution, have become increasingly prominent, has become a major social problem. If not resolved, will produce social unrest.

Harmony between man and nature is the goal of all these years. Human development, social development, science and technology, human destruction of nature is growing, including the persecution of biological, global warming, etc., will restrict people's lives.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

E9

Contribute. The most typical socialist divided between the Soviet Union as the representative of Marxist socialism, the other faction represented by Germany. Capitalist economic crisis, world wars, but also began to study socialism, and doing better.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

E9

Sustainable development is the basis for a harmonious society. Only society continues to progress and development for society to democracy, to harmony.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

E9

Jinchang has particularity, a government a big business, a lot of small businesses. Jinchang Jinchuan company primarily by people who composition, surface harmony, in fact, the gap is relatively large.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

E9

New city, the development of fast enough. Share of resources now there is no advantage. Will soon encounter problems such as shortage of mineral resources, sustainable development is necessary.

Investigator

Economy situation?

E9

The middle level

Investigator

Environmental condition?

E9

Environmental conditions, has improved in recent years. Able to meet the national environmental protection requirements, but also to do some work. Including PM2.5, solid waste, sewage treatment rate. Water is a critical factor in restricting local development must be water.

Investigator

Urban construction?

E9

Urban construction level, township level, needs to be improved. Design effects. On Beijing Road, Park Road, widening. Xinhua Road, landscaping renovation.

Investigator

The standard of living of the urban residents?

E9

Living standards, is relatively stable, moderate.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

E9

More comfortable, stable

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

E9

Slow development, fewer opportunities

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

E9

Can basically meet the national level, more than Lanzhou, Beijing, most of the time is better.

By local natural factors, dust and other effects, change more difficult.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

E9

Change is relatively large, in 2004 for several years, "black hat", is now much better.

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

E9

-

Investigator

How do you evaluate the sources of air pollution?

E9

Natural conditions (desert) + non-ferrous metallurgical and chemical engineering

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

E9

-

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

E9

No. Fatal point is around mineral production. Inland cities, import and export is not easy, there is no competitive advantage.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

E9

Must be transformed.

Extend the industrial chain, Eg. PVC. Nickel-copper-cobalt, deep processing.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

E9

Environmental costs will be weaker economic growth rate, is actually wrong.

Europe, the development of the past 30 years without polluting enterprises, including cement, pesticides, but do high quality stuff, not because of pressure on the environment impact on the economy. We do low-end, serious pollution, there is no competitive advantage.

Investigator

Do you think whether pollutants control would constrain the economic growth?

E9

Will not. From the source. No pollution of the project can be done. Eg. Israel, high-quality agriculture, very successful.

Can industrialization of agriculture, the green economy. Eg. Melon, lamb. No environmental pollution, sustainable development. Eg. Jiuquan, grape industry. Jinchang would also have vineyards, and now all built up residential area.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

E9

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes: - Advantages and disadvantages

E9

Jinchang only be a small city, very characteristic of the small city, it should be in accordance with this objective.

The rural population into the city, can be well absorbed. The key is if the educational level of these uneven levels of technical training.

Investigator

How do you see the great increase of number of housing every year?

E9

Misunderstanding.

Government cannot produce, and to develop the economy, the real estate commercialize, just to enhance the speed of the economy. Very serious consequences, like Japan, is likely to occur at any time of economic crisis, the real estate bubble.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

E9

-

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

E9

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

E9

-

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

E9

Decisive role. Chinese characteristics, the people did not participate.

The introduction of new industries, low pollution, competitive enterprise optimization.

Taking into account the geographical situation and Jinchang transport capacity.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

E9

Foundation supporting role.

Jinchang City development, 50-60% by Jinchuan company's development. Jinchuan extension of industrial chain, circular economy, if done well, will affect the development of the city.

Corporate social responsibility should be, returned to the local community. In recent years, companies have Jinchuan transformation for the city, the new rural construction, to provide economic and technical support.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

E9

Ten years after leaving the people to evaluate gamesters. Eg. Cultural Revolution, but people say well, it is now thought that it was wrong.

1. Uniform economic development
2. Democracy
3. Social harmony

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:- Which do you think is more important for the long-term development of Jinchang? Why?

E9

Complementary economic-based.

If there is no economic basis for environmental protection is a piece of paper talk. If you do not environmental, economic development cannot be long.

Investigator

How do you see the importance of natural environment and environmental protection?

E9

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

E9

Relatively strong.

All along, Jinchang pollution is serious, the residents have talked to many departments. Centers and, hopefully, do a good job of environmental protection enterprises.

Investigator

What environmentally friendly activities do you practice?

E9

Promoting recycling economy, save water and electricity.

Jinchuan company's main wastewater treatment, all my participation.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

E9

-

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

E9

Possible

Ideal model: utilization of mineral resources-based cities, a relatively high level of technology is advantage. Green agriculture and industry combine to form water-saving suit the western model of development.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

E9

Depends on the speed of economic development and transformation. Take the road of industrialization, or take the road of sustainable development.

If the current situation continues to develop at 10 years are dangerous. Not competitive, profitable business all the South, in Jinchang all losses, because of geographical location factors.

If you do a good job of agricultural industrialization, eg. Grapes, lilies, carrots, Jinchang sustainable development, because not many people.

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

E9

Do not want to

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

E9

Educational philosophy. Too traditional, too closed. Thinking outside with a big impact. Should introduce new ideas.

Q.12. Is there anything else you would like to add?

Investigator

What are they?

E9

Jinchang city transformation is the most advantageous. Because for Jinchang City, the proportion of urban and rural populations more reasonable. Can focus on urban and rural populations, for urban transformation. With the central policy is consistent.

Disadvantages:

1. No industry clusters, industry chain is not perfect. The difference between the North and the South in business.
2. Excessive pursuit of text and theoretical stuff, do not do the real thing. Do not form a large and small want to do.
3. Insufficient control labor costs, productivity level is not high enough.

Interview with E10

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

E10

Yes

Originally, I understand it is very vague. Now think the concept of sustainable development contained in a wide range, including social and economic, many things.

Investigator

If yes, can you remember when did you notice this term for the first time?

E10

About 10 years

Investigator

Do you have some ideas why this term was proposed?

E10

For social progress and improvement.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

E10

-

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

E10

Well, is a very rational formulation level of practice there are gaps.

Harmony between man and nature: very good. Contacts in foreign countries than more. China has recognized this problem, but in practice the level of some of the gap. Rational transformation of the environment, adapt to the environment. Need guidance from the policy and enforcement environment is good to get along with local businesses.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

E10

-

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

E10

-

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

E10

Public and good guidance levels, specific measures the government is very important.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

E10

Located in the western, the natural environment is not good, the impact of urban development.

Investigator

Economy situation?

E10

Good. Last year, Gansu Province ranked first. 1985 years ago, the nation's top 35 cities.

Investigator

Environmental condition?

E10

The natural environment is poor.

Investigator

Urban construction?

E10

Middle and upper level

Investigator

The standard of living of the urban residents?

E10

Relatively high

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

E10

Project construction broaden, land use convenient, low investment

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

E10

-

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

E10

Has improved quite much

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

E10

-

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

E10

-

Investigator

How do you evaluate the sources of air pollution?

E10

Industrial pollution

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

E10

-

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

E10

Should be. Jinchuan company is now in prime time, as well as a few decades to the development of related follow-up industry.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

E10

-

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

E10

Economic development is a better life for the residents of the investment environment is not an exaggeration. Eighteen, "but also the people blue sky blue water", Jinchuan company spent 3 billion used to transform air quality.

Investigator

Do you think whether pollutants control would constrain the economic growth?

E10

Just to meet emissions standards, will not have much problem. The key is to have environmental aspects of investment and norms.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

E10

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

E10

Yes

Protection of natural resources, especially water, restricting the city and the development of enterprises. Now companies are trying to develop abroad.

Investigator

How do you see the great increase of number of housing every year?

E10

The real estate market out of control, some not so normal development. New housing is over supplied.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

E10

-

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

E10

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

E10

Help to improve the regional environment, small regional climate cycle. Eg. Landscape with the construction of small-scale environment, especially good

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

E10

Strictly speaking, the government should be the role of coordination and service.

In fact, most of the supervision, management, and guide. Chinese government from top to bottom, in the service functions, not doing enough.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

E10

For urban development to do little things, financial support, personnel training

Address urban environmental pollution: to fulfill their duties, completion of national environmental requirements

Relatively strong social and environmental responsibility.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

E10

1. Living standards improved
2. Public facilities and infrastructure is developed very convenient
3. Social overall quality and level of education increased

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

E10

Indispensable. Coordinated development.

Investigator

How do you see the importance of natural environment and environmental protection?

E10

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

E10

Enhanced environmental awareness than before.

Investigator

What environmentally friendly activities do you practice?

E10

-

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

E10

-

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

E10

Should be. Decisions and guidance is very important.

1. The development of environmental engineering

2. Improve social services, the development of tertiary industry, to ensure follow-up development

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe: -If not, why?

E10

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe: -Why?

E10

Do not want to

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

E10

Short-term: no good project.

Long-term: water constraints.

Q.12. Is there anything else you would like to add?

Investigator

What are they?

E10

-

Interview with W1

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

W1

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

W1

About 20 years

Investigator

Do you have some ideas why this term was proposed?

W1

China changes to light industry

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

W1

Yes, for families, income has increased, improved living standards

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

W1

Should be harmonious interpersonal relationships

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

W1

Yes, but just a little

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

W1

Sustainable development generates harmonious factors

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

W1

Good. Fights relatively small, less the social unrest

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

W1

Yes

Investigator

Economy situation?

W1

Good

Investigator

Environmental condition?

W1

Bad

Investigator

Urban construction?

W1

Good

Investigator

The standard of living of the urban residents?

W1

Just OK. Gap between rich and poor is large

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

W1

Comfortable, less competition

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

W1

Resources shortage

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

W1

Bad. Much better than it was 20 years ago. But worse than nearby cities

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

W1

Daytime surveillance and monitoring, night emission

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

W1

Yes, rain or winter low pressure is relatively serious. Trachea uncomfortable

Investigator

How do you evaluate the sources of air pollution?

W1

Industrial city, there must be pollution

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

W1

Essential. If no industry the city will cease to exist

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

W1

Not possible

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

W1

Necessary transformation. Flue gas transfers into secondary resources.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

W1

Yes

Investigator

Do you think whether pollutants control would constrain the economic growth?

W1

Yes, it will

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

W1

Yes, conducive

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

W1

Yes. The same as former Soviet Union. From urban and residential areas together to gradually separated

Investigator

How do you see the great increase of number of housing every year?

W1

Out of the old and new guests. Old secondary distribution

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

W1

Basically consistent

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

W1

Yes, there are many in industrial areas

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

W1

Threaten

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

W1

Guide urban development. However, the government follow its own way, close one eye

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

W1

Important role. Supervision. Secondary processing and utilization

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

W1

Harmonious relationship between people, infrastructure facilitation

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

W1

Both important

Investigator

How do you see the importance of natural environment and environmental protection?

W1

With industrial restructuring to do step by step

Investigator

How do you evaluate local residents' awareness of environmental protection?

W1

More offensive to air pollution, environmental awareness is relatively weak, accustomed to the situation

Investigator

What environmentally friendly activities do you practice?

W1

Planting trees, garbage classification

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

W1

-

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

W1

Yes, it is possible

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

W1

Not possible. Because of shortage of resources, increasingly dissipated. Field procurement resources, the cost is too high.

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

W1

No. West is poor and backward

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

W1

Resource shortage

Q.12. Is there anything else you would like to add?

Investigator

What are they?

W1

None

Interview with W2

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

W2

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

W2

More than 20 years

Investigator

Do you have some ideas why this term was proposed?

W2

Everything needs to develop, with the progress of society, need to find a sustainable path

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

W2

Yes, every aspect of life with the surrounding environment is closely related to the development of the surrounding environment will be conducive to their development; while their development will affect the surrounding developments. Only 30 years ago, the tallest building in three layers, the road is only four. Now the tallest building 28 floors, living area reached more than 30. Previous bungalows are gone. Now living and working environments are better than planned. Factory working conditions improved significantly, safety measures also improved.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

W2

Human goal, each country's policy options are based on its own national conditions. Improve the quality, convenience and social development to provide a good environment

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

W2

Contribute. The development of a harmonious society for the city and create good conditions

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

W2

-

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

W2

Good. On the whole, public facilities construction Jinchang increase in public welfare activities, parks, green landscape belt. Urban road planning and construction in recent years done a good job, eg. Overpass, park open to public

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

W2

Yes, emerging new city, 30 years rapid development

Investigator

Economy situation?

W2

Good. JNMC country top 500, Gansu tax top5.

Investigator

Environmental condition?

W2

Compared with the past has a very big improvement in the past, "the wind stone run, mountain not long grass." Now sandstorm has decreased, the surrounding green belt of the building. Top5 previously heavily polluted industrial pollution of the city, and now into the living area are not adversely affected. .

Investigator

Urban construction?

W2

Urban construction quickly, but there are many problems in the design. Long-term planning is not enough, a lot of duplication. Impact of increased financial expenses while living.

Investigator

The standard of living of the urban residents?

W2

Just OK. Western city traffic is not very convenient. Environment is not low levels of consumption.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

W2

Fewer people, drive less, relaxed environment. Four distinct seasons.

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

W2

Water shortages. If Jinchang If there is water, will be very different. Industrial city, reInvestigator on resources, urban development is limited.

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

W2

Very satisfied. Many Chinese cities, a few days to see the sunny, building more vehicles, bad air. Jinchang lot better.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

W2

7:00 to noon, the best air quality. 18:00 to 12:00, the worst air.

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

W2

Yes, Jinchang 60% -70% of people with rhinitis.

Investigator

How do you evaluate the sources of air pollution?

W2

Industrial pollution and the natural environment. Northwest desert, vegetation less sandstorms. Industry, in recent years, although the government and enterprises are pollution, but the pollution is quite serious. Third, the individual's living standards improve, a substantial increase in private cars, thus polluting the air.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

W2

Industrial development and is closely related to the development of Jinchang City inseparable. State-owned industrial and mining Jinchang predecessor, with the expansion of business scale, the establishment of Jinchang City. In recent years, corporate resources decline, some raw materials imported.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

W2

Yes, possible

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

W2

Necessary transformation. Attract foreign investment, product deep processing.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

W2

Early in the development of Jinchang City, focused on economic development, the introduction of many investment projects. Waste, garbage, smoke, especially large effect on the urban environment. Government departments and enterprises get a lot of interest at the time, but later needs more investment to governance

Investigator

Do you think whether pollutants control would constrain the economic growth?

W2

No, now has improved exhaust gas control efforts

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

W2

Don't know

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

W2

Yes. A mine becomes three mines; a plant becomes four plants; 4 main roads become dozens of roads. Located in the Gobi Desert, allowing the city to expand. Former mining raw plant construction around residential areas, are now living separate production area, the city expanded several times.

Separate living area production area is conducive to human health, improve the living environment. Work from farther away.

Investigator

How do you see the great increase of number of housing every year?

W2

Part belongs to alterations. Residents to invest in real estate over-development.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

W2

Do not match. One in the fast lane one in the slow lane. Many cities in China the status quo

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

W2

No

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

W2

Eastern cities, the threat. But the western city, already in the next beach, the city's construction and improvement of the environment and help to improve the regional environment

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

W2

Leading urban planning and design, companies only play a supporting role.

For environmental governance issues, has always been the government's responsibility. Should be proactive, advanced design considerations, should be better than the general public and businesses see farther.

Lack of resources, pollution, technological improvements, the Government needs to consider the long-term and design. Eg. Investment, the introduction of advanced technology, light-pollution enterprises.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

W2

Pivotal role, to build cities.

In the enterprise development when taking into account environmental governance, any enterprise in the production of waste to be generated, and how governance is very important.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

W2

Improve the quality of people, reflected in the conscious level, to participate in public welfare activities frequencies.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

W2

Contradictions and inseparable. Urban development must rely on enterprises, the production would inevitably lead to changes in the surrounding environment. Mainly rely on government planning, corporate behavior standards.

Investigator

How do you see the importance of natural environment and environmental protection?

W2

Very important. eg. Minqin County, desertification, mass migration, no man's land. In recent years, environmental governance, desert control effect is good, the water table rose, some residents moved back to the site.

Investigator

How do you evaluate local residents' awareness of environmental protection?

W2

Kind of high. Now nobody pick roadside flowers, the people around will prevent unethical behavior

Investigator

What environmentally friendly activities do you practice?

W2

Planting trees

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

W2

-

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

W2

Will continue to develop, because the city is still very young

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

W2

Yes

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

W2

Yes. Environment is also good. Work life pressure is small.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

W2

Resource scarcity, water shortages, people's problems

Q.12. Is there anything else you would like to add?

Investigator

What are they?

W2

None

Interview with **W3**

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

W3

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

W3

Nearly 20 years, president Hu proposed this concept

Investigator

Do you have some ideas why this term was proposed?

W3

Recycling, developing circular economy

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

W3

Affected. Afforestation, in recent years, a lot of small sand.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

W3

Idea is good. But the difficulty of implementing it later. In mentioning the mouth, but do not get bit specific.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

W3

Small cities and harmony without much influence.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

W3

Complement each other. Harmony to sustainable development.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

W3

Now just a slogan, the form of publicity. Concrete life for most people has no effect.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

W3

-

Investigator

Economy situation?

W3

Economic conditions in Gansu province, it is good. But in the entire Northwest, future development, 30 years later after use of mineral resources, must be transformation.

Investigator

Environmental condition?

W3

Environmental conditions, better in terms of Gansu Province, urban greening, Goldwater Lake building are good, but compared with the water in many places, there are still gaps.

Investigator

Urban construction?

W3

Urban construction, as a small city, is still very good.

Investigator

The standard of living of the urban residents?

W3

Living standards, good.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

W3

Easy, life stress small.

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

W3

Landlocked and occlusion. Small city, life is very monotonous.

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

W3

February to May, heavy wind and sand dust

Compared with the past, much better. Compared with other cities, the gap is still particularly great. When the dust can not go out.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

W3

Work, to the area, where the air is relatively poor. In addition to units, the air is good.

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

W3

To work more than a year, nose becomes not normal by pollution irritation.

Investigator

How do you evaluate the sources of air pollution?

W3

As an industrial city, only to increase environmental protection investments and projects to weaken.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

W3

Jinchang industry is supporting the development of an important pillar.

But sustainable development Jinchang want it, just rely on industry, is certainly not acceptable.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

W3

No, after 30 years of mineral resources on the run.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

W3

Must be transformed. Mining and Metallurgy, the transition specialize in equipment manufacturing. Jiangsu and other cities to learn to do a manufacturing city.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

W3

Yes. Our factory, chlorine absorption unit, 40 million.

Investigator

Do you think whether pollutants control would constrain the economic growth?

W3

As long as environmental measures been done, and the relationship between the two are not necessarily.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

W3

Virtuous cycle

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

W3

Demographic and geographic limits the development of the city, the expansion is not necessary.

Investigator

How do you see the great increase of number of housing every year?

W3

1. Jinchuan company to resolve employee housing.
2. Real estate development. Basically saturated.

Housing increases, the limit should be achieved so far.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

W3

Infrastructure needs to be accelerated.

No cinemas, no three-dimensional commercial buildings, parks too.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

W3

No. The plant side of the open space more.

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

W3

There Jinchang north shelterbelt, is a barrier.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

W3

1. Decision-making
2. Communication between the company and Jinchuan, the need to strengthen
3. Deal with environmental pollution, given some preferential policies and support the company abatement
4. Long-term view, looking into the project cycle of Jinchang City

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

W3

Pillar role

Companies deal with environmental pollution: smoke emissions during the day rarely, mainly in the evening, 12am-5am, chemical plant flue gas recovery, for all recycling.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

W3

Feeling of happiness

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

W3

The first was the development of the economy, taking into account the environment. Economies account for 70-80%

Investigator

How do you see the importance of natural environment and environmental protection?

W3

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

W3

30% of people are conscious, can do. But most people are relatively poor environmental awareness.

Investigator

What environmentally friendly activities do you practice?

W3

Participated in tree planting is mine.

Themselves, to save electricity and water. Itself can only do some little things in daily life.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

W3

Jinchuan company has a lot of ideas, but putting this into practice, involves the coordination of many departments. Specifically to do so, it takes a long time.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

W3

Very difficult. Because once the mineral resources run out, the government's decision is not good, it is difficult to achieve sustainable development.

Ideal model: on the one hand prospecting efforts, on the other hand, learning Jiangsu and Zhejiang, the introduction of processing manufacturers, the development of processing industry. Environment, it should be led by the government to undertake the responsibility of 60-70%, and the remaining 30-40% of the Jinchuan company.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

W3

Two results:

1. The same with Yumen City, becomes a ghost town
2. Compared with now, is entirely another Jinchang city, is no longer a line of heavy mining city. But a light industry, processing industry of the city.

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

W3

Do not want to. I came back very sorry, regrettable.

City backward, located in the western city is too small.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

W3

Mainly its geographic limitations and drawbacks of mining city itself.

Q.12. Is there anything else you would like to add?

Investigator

What are they?

W3

None

Interview with W4

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

W4

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

W4

More than 20 years

Investigator

Do you have some ideas why this term was proposed?

W4

Comprehensive utilization of resources, driven by improved international reputation, and the allocation of resources to improve the environment, improve the living environment

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

W4

Yes, before the serious pollution, waste recycling is now a comprehensive way, the sky turn blue

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

W4

Very good, to enhance our quality

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

W4

Contributed much

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

W4

Match symbiosis, a chaotic society certainly reach sustainable development

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

W4

Good

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

W4

Yes

Investigator

Economy situation?

W4

Location advantage. Close to the mineral resources, Northwest transportation hubs, strong productivity.

Investigator

Environmental condition?

W4

General. Much better than before

Investigator

Urban construction?

W4

Pretty good

Investigator

The standard of living of the urban residents?

W4

Just OK

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

W4

Less pressure, low living cost

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

W4

Poor environment

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

W4

General. Much better than before, do not choke, not too many ups and downs

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

W4

Generally, no change

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

W4

Yes, Rhinitis. Dry, get used to it.

Investigator

How do you evaluate the sources of air pollution?

W4

West wind, dust storms. Industrial pollution is one, and now through better governance it.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

W4

The foundation of Industrial cities, related to every corner of the city

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

W4

Hard to say

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

W4

Necessary transformation. Develop tourism projects, eg. Desert tourism, desert adventure

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

W4

As urban residents, did not think too much

Investigator

Do you think whether pollutants control would constrain the economic growth?

W4

No, the current level of technology can be achieved.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

W4

Yes

Q.6. How do you see the rapid urban sprawl of Jinchang**Investigator**

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

W4

Yes. Living area has expanded very near the outskirts of the city. Residential area far away from industrial production areas, a good sign. Cost of living, transportation commuting expenses larger.

Investigator

How do you see the great increase of number of housing every year?

W4

Good thing, the housing stress became insignificant.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

W4

Overall match

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

W4

No

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

W4

Conducive. Improving the utilization of land resources is conducive to environmental improvement.

Q.7. What is the role of government in urban development**Investigator**

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

W4

Leaders, government finances are the beneficiaries of the land.

To increase environmental pollution control efforts. For the city to get rid of dependence on heavy industry, historical issues, hard to say.

Q.8. What is the role of industrial enterprises in urban development**Investigator**

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

W4

Pillar.

Actively cooperate with the government to build a harmonious society calls, innovation and technology.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

W4

Responding to environmental issues optimally and actively.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

W4

Both are indispensable, and no more important.

Investigator

How do you see the importance of natural environment and environmental protection?

W4

Very important

Investigator

How do you evaluate local residents' awareness of environmental protection?

W4

Qualities have been enhanced.

Investigator

What environmentally friendly activities do you practice?

W4

Energy conservation, water conservation, engineering sulfur recovery, flue gas, waste heat recovery.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

W4

Feeling relatively far away from our lives, it is less likely to pay attention to

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

W4

Yes, it is possible

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

W4

Hard to say. First, the comprehensive utilization of resources, the second is the transformation of the regional economy, both are indispensable.

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

W4

Yes

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

W4

Sandstorm, sand control

Q.12. Is there anything else you would like to add?

Investigator

What are they?

W4

None

Interview with W5

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

W5

Heard of it, but not profound understanding

Investigator

If yes, can you remember when did you notice this term for the first time?

W5

After working heard to the company, that is about 5 or 6 years

Investigator

Do you have some ideas why this term was proposed?

W5

Do not know

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

W5

-

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

W5

People-oriented, respect for citizens, rights of further requirements and safeguards

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

W5

-

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

W5

-

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

W5

Very good, Jinchang City, proposed to create a civilized city, so in this respect the work done more, such as environmental protection, urban construction.

Cell activity center building, residential landscaping, urban construction and other governments have done a lot of work areas.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

W5

In recent years, rapid development, more prosperity.

Investigator

Economy situation?

W5

Economic situation in the province is relatively good.

Investigator

Environmental condition?

W5

Environmental conditions as companies are more contaminated to varInvestigator degrees, is currently being improved.

Investigator

Urban construction?

W5

In recent years the rapid development of urban construction level, such as real estate development, urban landscaping, etc., than when I first came to vary greatly.

Investigator

The standard of living of the urban residents?

W5

Good living standards, businesses are more employment opportunities, income per capita than other cities.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

W5

-

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

W5

-

Q.4. How do you evaluate the urban air quality in Jinchang**Investigator**

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

W5

Air quality has improved compared to previous years, the state environmental protection department and the company HSE department is also a lot of work. Natural environment itself is relatively poor, wind, coupled with corporate pollution;

Compared with nearby cities, air quality is poor.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

W5

No much change

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

W5

By some, but there is no physical discomfort

Investigator

How do you evaluate the sources of air pollution?

W5

Requires environmental protection department, Jinchuan to invest more to control pollution

Q.5. How about the economic development of Jinchang**Investigator**

How much the industry is important for the economic development of Jinchang now and in the future?

W5

Jinchuan company's economic pillars, Jinchuan company's development determines the development of Jinchang City, Jinchang City's population 60% -70% of all company employees.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

W5

Hard to say, for the company, is currently introducing foreign resources should not happen in a few decades crisis.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

W5

-

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

W5

Jinchang harsh natural conditions, serious pollution, and therefore invest more in environmental protection, to keep people in good physical condition

Investigator

Do you think whether pollutants control would constrain the economic growth?

W5

Will certainly affect

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

W5

Benefit local residents, the environment has improved the human body can be good

Q.6. How do you see the rapid urban sprawl of Jinchang**Investigator**

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

W5

Now the city is indeed a growing area, the district also from 25 to 27 and 28 months of development.

Conducive to the development of the city to prove that the economic and living conditions improved.

Investigator

How do you see the great increase of number of housing every year?

W5

For ordinary workers, housing is a problem, the economic burden is also heavier, so the new housing is a way to improve the living environment, but for the price control should also intensify, the annual rate rose significantly.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

W5

Do not match, for example, the bus, the city is now expanding rapidly, but the traffic inconvenience.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

W5

No

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

W5

Contribute to improving the environment, residential environment has been landscaping, reforestation and the construction of mine park, the city's environment is beneficial.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

W5

Leading role.

Should invest a lot of money for processing of pollutants at source to govern.

Analysis of the source of pollution, sand, afforestation, etc.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

W5

The role of business in Jinchang relatively large share, mainly for the transformation of pollution, increase in wastewater discharges exhaust gas standards efforts, improved equipment.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

W5

From the resident's own qualities: cultural level, habits, thoughts, etc.

Living conditions, social environment

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

W5

Environmental protection is more important, the environment and climate and human health is directly related to

Investigator

How do you see the importance of natural environment and environmental protection?

W5

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

W5

Environmental awareness is not good, long-term residence in Jinchang, have adapted to this environment, for their own protection awareness is not strong

PPE includes: antivirus, dust, different uniforms and other work environments, health supplies (cough syrup, bandage, burn cream), etc.

Investigator

What environmentally friendly activities do you practice?

W5

Do not litter, do not spit, etc.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

W5

Such as spitting, throwing cigarette butts and other sometimes do not attach importance to ideological aspects of environmental protection resulting from

Q.10. Can you describe a model of sustainable city for Jinchang**Investigator**

Is it possible to achieve sustainable development in Jinchang?

W5

It should be possible, the company increased the construction of two companies

Ideal model: The natural environment has been improved, and more for afforestation, construction of the park, an oasis in the desert becomes separated

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

W5

Hard to predict

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

W5

I hope they go to a better urban development, according to their own development decisions

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang**Investigator**

What are they? Why they are important?

W5

Natural disasters, water shortages

Q.12. Is there anything else you would like to add?**Investigator**

What are they?

W5

None

Interview with W6**Q.1. How do you understand sustainable development****Investigator**

Have you ever heard of the term of sustainable development?

W6

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

W6

More than 10 years

Investigator

Do you have some ideas why this term was proposed?

W6

Resources are always limited, it must be possible to recycle unlimited development

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

W6

Will certainly affect.

Production process, all the raw materials, the consumption of resources can be recovered for recycling certainly be possible, including water circulation materials as much as possible.

Life, but also pay more attention to, such as garbage classification.

Q.2. What is your opinion on harmonious society in China**Investigator**

How do you evaluate the policy of constructing harmonious society?

W6

Social disharmony in our country is already a more serious problem, and now propose is a return, which is the former parity harmony, since the income gap, gap between rich and poor, large differences in cultural quality and other reasons, lead to social disharmony factors increases, so the pursuit of social harmony and stability, and to correct the problem now. Regardless of the state, society or small group, only harmony can develop.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

W6

-

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

W6

Only when we have resources, we get from the community what they need, the community can be harmonious; contrary if they are not the things they need, they will generate social instability.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

W6

-

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

W6

Very good, better social order, moral high level; living environment, social environment better.

Medium and small cities considered to be very nice city, comprehensive strength, higher income, better living conditions, including residential construction.

Investigator

Economy situation?

W6

-

Investigator

Environmental condition?

W6

-

Investigator

Urban construction?

W6

-

Investigator

The standard of living of the urban residents?

W6

-

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

W6

No advantage

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

W6

Natural environment, the economic environment is not as coastal cities. The disadvantage is mainly in the natural environment

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

W6

Did not Beijing then the terror, although the is the industrial city, but Jinchuan the company in environmental governance aspects of invested a lot of funds, is not currently a is very poor, there are blue sky and white clouds;

With the 10 years ago Baiyin (10 years ago from Baiyin come Jinchang) compared to the, certainly better than Baiyin is good, than it is now Lanzhou City are not that bad.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

W6

Worst in morning

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

W6

No

Investigator

How do you evaluate the sources of air pollution?

W6

Industrial pollution, enterprise development, is bound to produce industrial pollution, it is difficult to avoid

Q.5. How about the economic development of Jinchang**Investigator**

How much the industry is important for the economic development of Jinchang now and in the future?

W6

Is very important, regardless of where on the one hand, on the local financial support, the contribution of business to society, etc., Jinchuan Jinchang City's development plays an important role in the development of

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

W6

Shortage of resources is no one unavoidable question, although in this respect do Jinchuan earlier than other companies, but ultimately cannot avoid crisis

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

W6

Temporarily not necessary, but the long term certainly need restructuring, because the resource total depletion of the day, silver is a illustration;

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

W6

Considered, Jinchuan company has done in this area has been very good, economic development, but also pay attention to environmental protection, recycling and environmental protection on the invested heavily in environmental protection equipment operating costs are high, economic development and environmental protection are to both.

Investigator

Do you think whether pollutants control would constrain the economic growth?

W6

No, does not limit emissions control economic development, enterprise development, then the emission standards in the development of enterprises should already be included in the cost

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

W6

-

Q.6. How do you see the rapid urban sprawl of Jinchang**Investigator**

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

W6

No, no rapid industrial development a few years ago, from residential construction, but also slow the development.

Investigator

How do you see the great increase of number of housing every year?

W6

Personally, I feel is simply a waste

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

W6

Yes, the relatively strong local finance

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

W6

There are many houses around the uninhabited idle

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

W6

Contribute to the improvement of the surrounding environment, as infrastructure construction and expansion is synchronized

Q.7. What is the role of government in urban development**Investigator**

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

W6

Not much effect; want to have a city location, and orientation.

Jinchang environmental pollution problem is not so serious.

Intensify propaganda.

Q.8. What is the role of industrial enterprises in urban development**Investigator**

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

W6

Jinchang Jinchuan company's development is a pillar of operation if the company is not good, then the Jinchang City in terms of consequences are devastating.

To control the emission-based, first of all find a way to recycle, the current recovery cannot be achieved emission standards.

In terms of social and environmental responsibility to do good.

Q.9. How urban residents response to the urban environment**Investigator**

How to measure the social progress in your opinion?

W6

Least enough to live comfortably, and good public order, good environment, good attitude human consciousness

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

W6

-

Investigator

How do you see the importance of natural environment and environmental protection?

W6

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

W6

Not a lot of contact, environmental awareness is still there, no littering

Investigator

What environmentally friendly activities do you practice?

W6

Turning off lights, turn off the water, saving water resources

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

W6

Do not think too much, and then do not do much

Q.10. Can you describe a model of sustainable city for Jinchang**Investigator**

Is it possible to achieve sustainable development in Jinchang?

W6

Confident that we can realize this problem, then it far away from the problem.

Resources can be fully utilized; flow out from the city, the development of products would like boutique; form an economic circle.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

W6

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

W6

Do not want to, the natural conditions are relatively poor.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

W6

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

W6

None

Interview with W7

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

W7

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

W7

10 years

Investigator

Do you have some ideas why this term was proposed?

W7

-

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

W7

Yes, affected

Take our grass-roots work, for example, resource reuse approach to be taken; concept also has a gradual transformation

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

W7

Very realistic and consistent with the current development situation

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

W7

Certainly influential, if excessive development certainly will not last, so to moderate exploitation, purchased raw materials

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

W7

In our city, for example, if the resources are exhausted, then certainly a lot of people facing unemployment, will lead all aspects of social factors of disharmony

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

W7

Mention more than, but also made some real things, the environment has improved significantly, air quality has greatly improved

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

W7

Relatively important city

Investigator

Economy situation?

W7

Income level at the forefront

Investigator

Environmental condition?

W7

Improved

Investigator

Urban construction?

W7

In recent years, the development of urban construction is very good

Investigator

The standard of living of the urban residents?

W7

Good, the overall level is good

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

W7

Small pressure of life, income level is relatively high in the western city

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

W7

Lack of information, the concept behind the lack of geographical advantages

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

W7

Slightly lower than the level of satisfactory, and then improved a bit is better.

Cannot match with the nearby agricultural cities, but much better than before, there is a great improvement.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

W7

In the past, the evening air quality is not good, and now almost all day and night

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

W7

When I first arrived not adapt

Investigator

How do you evaluate the sources of air pollution?

W7

1. Enterprise production facilities are not matching result
2. Level of consciousness is not in place.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

W7

In Gansu is relatively fast development, very important

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

W7

Certainly be affected, enterprise resource dependence is relatively large, if the shortage of resources will be a greater impact

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

W7

Necessary to transform

Into new energy projects, to get rid of dependence on resources

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

W7

Relatively high environmental costs, as smelting enterprises, certainly have environmental investment

Investigator

Do you think whether pollutants control would constrain the economic growth?

W7

There is definitely a limit, but you need to find a balance, not only pollution but also to promote economic development

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

W7

Should be beneficial to give everyone environmental awareness

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

W7

Yes, because the city is developing, inevitable development in all aspects.

Appropriate development is appropriate, but excessive development also has some disadvantages, such as blind on some items, may reap the desired results.

Investigator

How do you see the great increase of number of housing every year?

W7

New housing stock is not too large, but still increasing, an urban development is inevitable, the inflow of foreign population needs new housing

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

W7

Currently, okay, if we continue to develop some problems may be exposed

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

W7

No

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

W7

If the industrial expansion, depending on the size of the industrial pollution itself

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

W7

Guide local development

Control high energy consumption, pollution, the construction of large enterprises

Transformation, steering low energy consumption, little environmental pollution, industrial

To adopt the views of the public

Publicity and guidance

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

W7

Role is relatively large, should belong to the pillar

Enterprise development will certainly be pollution, but environmental protection in this area should make their own, can not let the urban pollution

Try to choose low-power low-pollution new project types to put into operation to be part of environmental compliance
Environmental awareness

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

W7

Income security and happiness, living conditions have improved, then good environment

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

W7

Two complement each other, the economy is certainly to develop, but the green must be good to find a balance point

Investigator

How do you see the importance of natural environment and environmental protection?

W7

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

W7

There are good and bad environmental awareness, some people do not care, some people are more conscious

Investigator

What environmentally friendly activities do you practice?

W7

Participated in the organization's environmental behavior, such as fume collection, water, etc., to avoid the production of waste behavior; life, save water.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

W7

Exist, some waste but did not think to do. Overall environmental awareness is not strong, if everyone did it, I felt normal.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

W7

Possible

Ideal model: Blue sky, the environment is more important is the impact on the life of a large aspect; Then more stable income.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

W7

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

W7

If income security, to stay, definitely still want to stay in this.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

W7

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

W7

None

Interview with W8

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

W8

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

W8

More than 10 years

Investigator

Do you have some ideas why this term was proposed?

W8

Resource recycling use and for the generations

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

W8

No, not affected

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

W8

Do not know

Harmony between man and nature, to promote environmental protection

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

W8

No contribution

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

W8

Both can improve the quality of humans

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

W8

-

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

W8

-

Investigator

Economy situation?

W8

Economic situation, okay, the consumption level is relatively high.

Investigator

Environmental condition?

W8

Environmental conditions, in addition to emissions of polluting gases Jinchuan, the other better.

Investigator

Urban construction?

W8

Urban construction, relatively backward.

Investigator

The standard of living of the urban residents?

W8

Standard of living, the price is too high, wages are too low.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

W8

Leisure, work pressure is small, the slow pace of life for pension

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

W8

Slow economic development

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

W8

Just OK, much better than before

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

W8

No great change

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

W8

No

Investigator

How do you evaluate the sources of air pollution?

W8

The result of industrial development

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

W8

Jinchang has been reInvestigator on industry to survive, is very important.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

W8

No, cannot

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

W8

Not necessary transformation. Jinchang has no development prospects.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

W8

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

W8

Yes, will restrain

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

W8

No

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

W8

Yes. Blind expansion.

Investigator

How do you see the great increase of number of housing every year?

W8

Increasing too fast, few people, many houses have been unoccupied.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

W8

Match

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

W8

No

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

W8

Threatening also improving, occupy arable land.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

W8

Leading role.

Oversight, governance, strict control point.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

W8

Very important. No no Jinchang Jinchuan company.

Large enterprises to learn how to manage pollution.

Environmental and social responsibility is still relatively good, these problems can be noted that in recent years also working.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

W8

Communist society

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

W8

Environmental protection is more important

Investigator

How do you see the importance of natural environment and environmental protection?

W8

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

W8

Strong, more conscious, do not litter, do not spit, do not pay attention only a small sector of environmental protection.

Investigator

What environmentally friendly activities do you practice?

W8

Not a good habit, just do not litter.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

W8

-

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

W8

Unlikely. Jinchang resources run out of no way out, cannot loop it up.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

W8

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

W8

Depending on the wish of child

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

W8

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

W8

None

Interview with W9

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

W9

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

W9

More than 10 years

Investigator

Do you have some ideas why this term was proposed?

W9

Decision of government

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

W9

Yes

Such as two-sided printing paper work, walking to work

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

W9

Is raised, and now social disharmony, stability overrides everything, policy is good.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

W9

Lushan in earlier earthquakes, for example, the construction of the Three Gorges Reservoir impact, which caused discord.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

W9

-

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

W9

Good. For example, such as land compensation for farmers

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

W9

Jinchang is a prosperous city.

Investigator

Economy situation?

W9

Economic situation, in Gansu, is quite good.

Investigator

Environmental condition?

W9

Environmental conditions is also good.

Investigator

Urban construction?

W9

Urban construction is good. Cleaner than most cities, such as underground rash, many foreigners from other cities have never seen that before.

Investigator

The standard of living of the urban residents?

W9

Good, but the price level is high.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

W9

Few people, not crowded out, live comfortably

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

W9

-

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

W9

Much better than before

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

W9

Night no feeling, is relatively poor morning

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

W9

Yes, throat and eyes have discomfort, once on the road last year, tears DC, could not open this year's situation is much better.

Investigator

How do you evaluate the sources of air pollution?

W9

Jinchuan company

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

W9

Is now very important mineral resource consumption over future may change.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

W9

Depending on national policy.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

W9

Yes, to the development of green industries

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

W9

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

W9

Certainly limited, but future development is beneficial.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

W9

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

W9

Yes. Somewhat faster rate of expansion.

Investigator

How do you see the great increase of number of housing every year?

W9

-

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

W9

-

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

W9

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

W9

-

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

W9

Leading role.

Conducting sustainable development.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

W9

No local industry, is also not develop Jinchang.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

W9

Residents ethical standards

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

W9

Complement each other, the environment is more important, on the contrary economic development cannot fast.

Investigator

How do you see the importance of natural environment and environmental protection?

W9

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

W9

Getting better and better, in order to throw garbage anywhere better terms than in the past.

Investigator

What environmentally friendly activities do you practice?

W9

-

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

W9

-

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

W9

Yes, now doing.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

W9

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

W9

Uncertain

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

W9

Repeated construction, blind expansion and so on.

Q.12. Is there anything else you would like to add?

Investigator

What are they?

W9

None

Interview with **W10**

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

W10

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

W10

More than 10 years, in Junior political course

Investigator

Do you have some ideas why this term was proposed?

W10

Excessive consumption of resources

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

W10

Influential, but a little. Water conservation, throw rubbish according with sorting bins garbage by category

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

W10

Policy is good, but implementation is not that good

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

W10

Make urban development more stable at least not backwards

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

W10

Both are conducive to social progress.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

W10

Implementation is rather poor, lack of fairness and justice; mutual exchange between people is relatively small, generally see things are just onlookers; environmental pollution is serious lack of determination of governance; life stress impetuous social comparison, people are more irritable; the uneven quality of urban residents, my family built a basketball court behind a few days on the stone bench smashed

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

W10

No

Investigator

Economy situation?

W10

Economic situation compared with the eastern city poor

Investigator

Environmental condition?

W10

Poor air condition

Investigator

Urban construction?

W10

Urban planning unreasonable, the living district can be built next to the coal yard

Investigator

The standard of living of the urban residents?

W10

Midele and lower living standards

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

W10

Fewer people, cheaper housing, slower pace of life, more comfortable

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

W10

Low quality of life, serious environmental pollution, infrastructure in general, poor traffic conditions

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

W10

Jinchang poor air quality. Compared with the nearby city air is poor, an improvement compared with the past

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

W10

Little change in day and night, working and non-working time did not change because 24 hours at work, poor industrial area near the edge of the city residential air a little better

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

W10

Yes, rhinitis

Investigator

How do you evaluate the sources of air pollution?

W10

We have to endure no matter how heavy the pollution because we all rely on it to live

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

W10

Jinchang city is a resource-based city rely on industry to support the economy

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

W10

No, it cannot

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

W10

Yes, it is necessary. Total depletion of resources is inevitable; I think the transformation of raw materials to the manufacturing feasibility

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

W10

No

Investigator

Do you think whether pollutants control would constrain the economic growth?

W10

No

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

W10

Yes

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

W10

Yes. Mainly residential Jinchang larger outward wide sheets, Advantages: desert wind and sand can cover buildings, industrial and residential separation helps urban planning Disadvantages: excessive infrastructure cannot keep up is not conducive to the public life

Investigator

How do you see the great increase of number of housing every year?

W10

The income of leaders increased

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

W10

No, lag behind

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

W10

Yes

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

W10

Better for regional environmental improvement

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

W10

Strengthen supervision, but I guess the municipal government cannot control this situation because they have to rely on the company to live

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

W10

Improve waste sewage disposal facilities, construction waste recycling facilities, contribute to improving the investment environment

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

W10

Living, "normal" per capita income does not contain leaders, all company including leaders reaches 5000, and the employees are less than 3000 per capita. Crime rate, less social conflicts naturally lower

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

W10

Economic development is more important

Investigator

How do you see the importance of natural environment and environmental protection?

W10

Only when the economy develops to a certain extent in order to understand the importance of the environment, "Clear Sky Warrior" perfect interpretation

Investigator

How do you evaluate local residents' awareness of environmental protection?

W10

Basic unconscious

Investigator

What environmentally friendly activities do you practice?

W10

Do not throw garbage, nothing else

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

W10

I am afraid of being regarded as a mental disorder (out to lunch)

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

W10

No, not possible

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

W10

No, lacking of resources

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

W10

No, no hope here

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

W10

Many many problems...

Q.12. Is there anything else you would like to add?

Investigator

What are they?

W10

None

Interview with W11

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

W11

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

W11

About 10 years

Investigator

Do you have some ideas why this term was proposed?

W11

According to the natural laws of economic development, urban construction, you must have this capability.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

W11

Affected.

For city, changing the existing deficiencies of the city.

For person, personal living standards improved, education, health care, the environment, are improved.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

W11

Policy and direction is right. There are regional differences in the implementation of cultural backwardness, building a harmonious society to carry out enough.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

W11

Improved overall degree of urban civilization. Urban construction, urban culture, integrated aspects are improved.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

W11

Interrelated in the same direction, but also to simultaneously.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

W11

Overall speaking, changed a lot. Civilization term behavior in public places, public administration, environmental protection, public facilities, are improved.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

W11

-

Investigator

Economy situation?

W11

Economic status, poor prospects in recent years. Jinchang industries, grasp of the market is not enough.

Investigator

Environmental condition?

W11

Environmental conditions greatly improved. Compared with 10 years ago to improve a lot.

Investigator

Urban construction?

W11

Urban construction, and medium-sized cities and coastal cities, much worse, backward, did not think ahead.

Investigator

The standard of living of the urban residents?

W11

Living standards, the difference is relatively large, uneven.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

W11

Social order and stability, relatively low prices

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

W11

The natural environment is poor, the edge of the desert

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

W11

Bad

Nonferrous metals heavy industry+ natural environment + man-made destroy

Compared with the past, has improved. The area near the factory the past, keep my eyes open.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

W11

According to the natural phenomenon of wind. Wind direction is wrong, wind small, serious pollution.

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

W11

Yes, affected. When air pollution, chest tightness, shortness of breath, tearing, runny nose.

Investigator

How do you evaluate the sources of air pollution?

W11

Natural factors + human factors (industrial cities, no pollution is impossible, you need to solve the scientific concept of development of industrial pollution. According to the current mode of production enterprises, environmental protection is still not in place).

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

W11

Jinchang industry has entered the international industry. Does not last stage. Only to maintain the current cost. Eg. Nickel

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

W11

Can withstand short term. Because of the small population, industrial base is relatively thick.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

W11

Necessary. According to the relevant policy decisions.

Ate national financial industry workers and the difference is particularly great. Trades workers pay far beyond the management of labor, but treatment is far less.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

W11

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

W11

Be viewed on the correct development issues. Limit, but in order to the health of residents, appropriate to reduce pollution emissions, slow economic development, it should be. Despite earning a lot, but the body is bad, does not make sense.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

W11

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

W11

Yes

Comply with the laws of economic and social development, economic development, promoting urban sprawl.

Advantages: improved living environment

Disadvantages: the original resource environment surrounding area destroyed. Farmers have become urban residents, a lot of farmland, green belt, have become a residential area.

Investigator

How do you see the great increase of number of housing every year?

W11

Urban development, there must be a certain percentage of housing construction. However, the development too quickly, another part of the city will bring pressures. New housing is not concentrated.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

W11

Basically match

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

W11

No

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

W11

Urban sprawl is a good thing, but expanding too quickly would threaten the environment endurance is limited. Not be divorced from the actual local situation. Jinchang every year a large number of the homes, many of which are idle is a great waste of resources.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

W11

Government departments should be in accordance with the city's population and socio-economic conditions for urban and street construction, steady development, long-term consideration. Government is now basically out of touch. Response to heavy reliance on the city: Jinchang completely rely on heavy government finances, very passive.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

W11

Absolute leading role.

Jinchuan company nearly 20 years of urban planning and environmental protection has made a great effort for a business enterprise, a great contribution. Eg. Road construction, residential construction, mining park.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

W11

1. Harmonious thinking pattern. Government and enterprise cooperation.
2. The Government People, not from the masses. Now the people of the officials are not satisfied with the whole situation a step by step development to the present situation. Officials sounding, do practical things. Our country is a political power, political overtones have a great impact.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

W11

Both are important and must be developed simultaneously.

Investigator

How do you see the importance of natural environment and environmental protection?

W11

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

W11

Better, most than many managers of local residents do bits. Eg. Now nobody picks flowers.

Investigator

What environmentally friendly activities do you practice?

W11

Love flowers, from its start.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

W11

Big aspect cannot do, our capabilities are limited. We can only do small things.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

W11

Possible. Governments and enterprises to strengthen cooperation.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

W11

No one can guarantee. In my view, the Jinchuan company cannot develop so long, unless the transformation. But for transformation, is not optimistic.

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

W11

If Jinchang could be sustained, I hope.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

W11

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

W11

1. Development projects do not blindly
2. Democracy comments. Experts and residents to discuss together.

Interview with **W12**

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

W12

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

W12

About 10 years

Investigator

Do you have some ideas why this term was proposed?

W12

For the future development of society

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

W12

Yes, affected. Social development, the economy has improved the standard of living will be increased.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

W12

Good.

Harmony between man and nature, ecological balance.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

W12

Contribute. Harmonious society, to promote harmony between people, good social order, and contribute to the development of the city. In addition, economic aspects, but also a relationship.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

W12

Have in common, both are for social development.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

W12

Small place, the implementation is not good. People's quality is poor, low literacy levels.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

W12

-

Investigator

Economy situation?

W12

Good

Investigator

Environmental condition?

W12

Poor. In the effort to change, but the overall level is not good.

Investigator

Urban construction?

W12

Viewed in western of China, not bad. The main problem is the poor urban management.

Investigator

The standard of living of the urban residents?

W12

Low

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

W12

Small city, slow development, living standards is good.

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

W12

Pollution, poor environment, economic development is slow, traffic is not convenient.

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

W12

Urban air pollution has improved, but overall still very poor. Production caused serious pollution. Although great efforts governance efforts, but still a distance away from the expected.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

W12

Depends on the wind! No wind, pandemonium.

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

W12

Yes, sinusitis, lung disease, in case smoke tears.

Investigator

How do you evaluate the sources of air pollution?

W12

Companies only focus on efficiency, do not pay attention to environmental protection. Without the use of foreign materials to the production, pollution is particularly great.

Government should succeed to manage, strengthen management efforts.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

W12

Is very important, "no Jinchuan company no Jinchang city". Jinchuan company's development is now at the peak period, began to decline.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

W12

Difficult, no resources. Many enterprises have been discontinued.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

W12

Should transform. Do deep processing.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

W12

Economic development and environmental governance must be matched.

Investigator

Do you think whether pollutants control would constrain the economic growth?

W12

Will not. As long as environmental protection investment in place, will not affect economic development. Countries corresponding calculation, should be strictly adhered to.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

W12

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

W12

Yes

Advantages: Increasing urban population and promote economic development, improve living standards and promoting consumption.

Disadvantages: industrial cities shortage of raw materials, the development of fast, no raw materials cannot be produced, the consumption of resources can =not keep up.

Investigator

How do you see the great increase of number of housing every year?

W12

Rural population into urban living, the urban population increases.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

W12

Do not match. Only increased housing, urban planning is not always complete. Eg. Heating, education, health care, a lot of places are not matching.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

W12

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

W12

Threaten. After the urban sprawl, more pollution and more waste.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

W12

Leading role

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

W12

Pivotal role

Address urban environmental pollution: pollution control make the appropriate supporting measures.

Jinchuan corporate social and environmental responsibility is still relatively strong, the investment environment improvement projects, eg. Longquan landscape, Donghu Lake

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

W12

1. Urban public facilities, good, good law and order
2. Economic development, people's living standards improve

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

W12

Both are important and indispensable.

Investigator

How do you see the importance of natural environment and environmental protection?

W12

Poor environment affects human health. For social development is not good.

Investigator

How do you evaluate local residents' awareness of environmental protection?

W12

Poor

Investigator

What environmentally friendly activities do you practice?

W12

Saving water and energy

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

W12

Lack of consciousness

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

W12

Possible

Ideal model: blue sky, wide roads, trees everywhere. Freedom walk, bus development, convenience, people live and work.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

W12

Yes, will be more prosperous

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

W12

Do not want to. Jinchang is a dead end, little potential for development. Industrial city, with little hope, is not optimistic.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

W12

1. Economic constraints
2. Lack of resources

Q.12. Is there anything else you would like to add?

Investigator

What are they?

W12

None

Interview with W13

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

W13

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

W13

Don't remember

Investigator

Do you have some ideas why this term was proposed?

W13

Don't know

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

W13

No influence on me, I only care about my salary

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

W13

Very good

Harmony between man and nature: very contradictory, and social development in harmony with nature cannot, should be able to achieve harmony and good.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

W13

Don't know

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

W13

Have in common. Sustainable development, and improved living standards, is conducive to harmony.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

W13

Harmony or not, are the same. Small place, not open, not a big impact.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

W13

-

Investigator

Economy situation?

W13

-

Investigator

Environmental condition?

W13

Better than Lanzhou

Investigator

Urban construction?

W13

Just OK, no features

Investigator

The standard of living of the urban residents?

W13

Just OK

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

W13

Less people

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

W13

Poor environment

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

W13

Poor. Better than before

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

W13

Depends on wind direct and speed

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

W13

Yes, affected, long-term pharyngitis

Investigator

How do you evaluate the sources of air pollution?

W13

Industrial pollution

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

W13

Hard to say

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

W13

No, cannot

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

W13

Transformation is necessary. No good suggestion

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

W13

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

W13

Hard to say, to be produced must be vented

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

W13

Eg. White pollution, social progress. Plastic saving wood. Such pollution and it brings convenience, not measurable.

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

W13

Every city in the expansion.

No favorable place, limited population, urban sprawl too much, not enough resources. And regional traffic inconvenience, dead end, the expansion is too large to no avail.

Investigator

How do you see the great increase of number of housing every year?

W13

Some families have several houses, while some have no place to live.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

W13

Don't know

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

W13

Don't know

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

W13

Threaten, occupy agriculture land

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

W13

Business of leaders, I don't know much about this

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

W13

Jinchang's economy is supported by Jinchuan group, pivotal role.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

W13

Don't know

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

W13

Both are important, but hard to balance

Investigator

How do you see the importance of natural environment and environmental protection?

W13

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

W13

Awareness is poor

Investigator

What environmentally friendly activities do you practice?

W13

-

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

W13

Individuals can not afford.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

W13

Impossible. Only consider the current leadership, to consider their own achievements. Residents generally consider only their own lives, without regard to sustainable development of cities or not.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

W13

Not optimistic. No resources, no hopes. Lack of culture, status is low.

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

W13

Do not want to, don't have confidence with the city

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

W13

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

W13

None

Interview with R1

Q.1. How do you understand sustainable development

Hear a long time, from the national to local advocates advocated for some time. Sustainable development is based on the existing national policy and local circumstances, local conditions according to their characteristic development and planning. Meet the spirit of sustainable development requirements. Ecological protection, rational use of resources to sustainable development.

Investigator

Have you ever heard of the term of sustainable development?

R1

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

R1

More than 10 years

Investigator

Do you have some ideas why this term was proposed?

R1

Our country is developing, from a technical, technology, talent keep up with all aspects of existing development needs. Locally, the plundering of resources and unscientific use of resources of the phenomenon. Long-term adverse consequences of such a form, so it is necessary to provide scientific planning.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

R1

Jinchang, industrial city. The development of reform and opening up late and national level support, the existing situation, the development of local businesses, employees, changed the lives of the masses. That sustainable development should continue.

Concept has been gradually realized the importance of sustainable development, should be made of existing social thought.

Life, culture, ideas have changed the concept, recognized sustainable development.

Behaviour by the impact of the concept, the concept has changed, the behaviour changed at any time.

Q.2. What is your opinion on harmonious society in China

From the overall national advocate for a long time. Harmony, people want social harmony, equality, there is a warm family, equitable social system.

Investigator

How do you evaluate the policy of constructing harmonious society?

R1

Policy is better. People can accept, I hope so.

However, there are a variety of social inequality, the people will not be recognized. There are problems at all levels, and harmony can not be integrated, and the need for national governments to carry out a great effort.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

R1

Urban development should be more prosperous, harmonious social development of the city has a positive role in promoting. Improve people's ideology, social system with cognitive, spiritual has increased, civilized behavior, the city's development is a contribution.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

R1

Complement each other.

Society should be harmonious in order to promote sustainable development of society.

Common is that national peace, the people happy, social progress, productivity and more, harmonious and sustainable development of integration.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

R1

Relatively good.

Jinchang turned out to be a village, mining companies, after the city, is a new industrial city west to build resource-based large state-owned enterprises.

Just to work from the beginning, Jinchang two companies (construction and non-ferrous metals enterprises), the company for the national top 500 enterprises.

Particularly fast development of the company. Now the development of recycling economy in the country is more typical examples of waste utilization. Local mining resources eat dry pressing to do, drunk, fully utilized.

Meanwhile Jinchang city built a large local businesses, such as dry cement plants, photovoltaic power generation, large-scale farming, etc., in the province are the focus.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

R1

Yes. To mine resources based emerging city, but only a handful of the city in Asia is our urban development of the capital. Development for 30 years, is still very young city, there is the situation today, is still very good.

Investigator

Economy situation?

R1

Economic conditions in Gansu ranked first contribution to the country is also very large.

Investigator

Environmental condition?

R1

Environmental conditions, over the past decade, national attention to environmental protection, a lot of investment, compared with the 1970s and 1980s many improvements. Of course, there is a great task, giant standards have very different goals.

Investigator

Urban construction?

R1

Urban construction, lack of unified planning, the government invested a lot of things, but from the design and planning is not sufficiently long, messy, no place special things.

Investigator

The standard of living of the urban residents?

R1

Living standards, comparisons can be. Fewer people, Metro, lighten the burden of the government, the per capita living standards in the province can be.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

R1

Life stress, relatively light.

Cost of living, but also can be accepted.

Residence, not a big problem, more relaxed.

Traffic, you can. Urban traffic can.

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

R1

Urban infrastructure situation not satisfied, not science, not meet people's wishes. There is no place where.

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

R1

Jinchang has one characteristic, is the edge of the desert air. When the wind blows, the air is good, with the air flow away sewage. But winter is not very good. Compared with the past, to improve the relatively large. Too often in the past can not be choked out the door.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

R1

Sometimes at night the air is not very good. According to my understanding, evening 2.3 clock, corporate emissions. During the day compared to control emissions.

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

R1

Wind direction to the city, you can feel more obvious air pollution, more pungent glare.

No physical discomfort, not the spirit of annoyance.

Investigator

How do you evaluate the sources of air pollution?

R1

Heavy smelting enterprises, the source is the smelting section.

How scientific production, maximize the use of advanced equipment, improve emissions.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

R1

Jinchang is the business should have good, especially the Jinchuan Group, Jinchang 60-70% as revenue contributors. Taxpayer.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

R1

This problem exists. Jinchang resources are not too many mineral resources are relatively scarce.

Companies have now and in the provinces of resources from abroad purchases.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

R1

Sustainable development, economic restructuring must. Under the original way to go, companies can not last long.

Comply with local conditions to develop small-scale private enterprises, otherwise, not sustainable development.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

R1

Environmental pollution is inevitable. To produce, there must be contamination. To develop recycling economy, the rational allocation of resources, improved on the production process from the enterprise equipment.

Investigator

Do you think whether pollutants control would constrain the economic growth?

R1

In the current limits. More contradictory, in order to develop the economy, especially in Jinchang, environmental compliance difficult.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

R1

Conducive to people's lives, but not necessarily conducive to enterprise development. Restrained.

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

R1

Yes. As a local, urban growth and expansion, according to economic strength, population growth and the subordinate classes, where an expansion, it should be a good thing. Jinchang view, expand fast enough, because no other companies to boost local development.

Investigator

How do you see the great increase of number of housing every year?

R1

Urban development trends. Jinchang has its own characteristics, and other cities have different places. Compare Kuankuang around Jinchang city, the need to expand the city's development, the introduction of large-scale enterprises and population to enrich the city.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

R1

Fairly consistent, not fully understood.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

R1

No

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

R1

From Jinchang speaking, is conducive.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

R1

Government should be a very important role. On behalf of a political party.

The relationship between government and enterprises, complement each other, work together to contribute to urban development.

Government plays a leading role, from land use, planning, development, and are dominated by the government.

Government advocates and regulators.

Of course, some things did not, people will not understand. System there, not in place to implement. More serious is that regulation is not in place, resulting in a variety of problems. Lead the people dissatisfied with the government.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

R1

First, promote local economic development. Particularly suitable Jinchang.

To increase further the transformation of environmental pollution, minimize surroundings, farmers, ecological pollution of the natural environment, business leaders need attention and funding in place.

Available within 20 years, the city relies on relatively large enterprises.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

R1

Climate improved, the people satisfied. Urban development progress every year. The human spirit has changed.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

R1

Economic development is more important, economic development is the first one, followed by the development environment.

Investigator

How do you see the importance of natural environment and environmental protection?

R1

From the natural environment in terms of human nature. See the original natural environment is the most important thing, but people want to live, we must develop the economy and industry, the environmental impact cannot be avoided.

Investigator

How do you evaluate local residents' awareness of environmental protection?

R1

In recent years, protection of the environment gradually raise the level of awareness, recognizing the importance of environmental protection. Annual afforestation, water pollution, etc., to comply with the rules of conduct, not pollution. Generally improved.

Investigator

What environmentally friendly activities do you practice?

R1

Tree planting

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

R1

Personally powerless. Government has planned a large scale, participate in the annual afforestation.

Other actions to improve the environment, cannot do yourself. Their ability to not do it.

Garbage disposal, etc., can do to do it.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

R1

Yes, it is possible

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

R1

Desire. Believe that the state, believe in science, the development will have a general Jinchang and long planning. In the existing planning, taking into account many years of development, there is confidence.

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

R1

Hope. Because Jinchang is a good city, there is great potential for development.

Small population, life stress small. If the environment has further improved, very nice small city.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

R1

Leadership can continue to attach importance to urban development issues. Increase investment, and have the ability to attract businesses to the ground features to attract investment in the further development of the city. To vigorously promote in this regard.

Q.12. Is there anything else you would like to add?

Investigator

What are they?

R1

Jinchang city planning should highlight to novelty. Jian Fang Jianlou have a more scientific design, showing the city's characteristics and style. Prefer to change the leadership can not change urban planning. Thus, the city's development from the point of view can be a good city to grow.

Interview with R2

Q.1. How do you understand sustainable development

From the literal point of view of sustainable development is human survival and development whether temporal continuity. From the big perspective, human beings from birth to now, in their own development, but also for our living environment of change and influence, and impact of these changes include a lot of our own has a negative impact, but we can utilization of resources facing the danger of over-exploitation and depletion; currently the focus of attention from the

view of the problems, mainly fossil fuels and other resources consumption, water, air and soil pollution of the environment, biodiversity, ecosystems by humans threats. So we need to think about, looking for a continuity in time with development, responsible for the future, is also taken many measures, such as the development of clean energy, reduce carbon emissions, pollution control, ecological and environmental protection.

Investigator

Have you ever heard of the term of sustainable development?

R2

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

R2

More than 10 years

Investigator

Do you have some ideas why this term was proposed?

R2

Since the development of human resources, environment, ecology and other aspects, has intensified in the foreseeable future to the development of mankind would have an extremely negative impact, so this is also an objective of the problem is very urgent.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

R2

Does produce the effect, and have more aspects. For example, in everyday will try to choose green travel, reducing the use of plastic bags when shopping, household appliances, faucets and other products that use energy saving, do not throw garbage and so on.

Q.2. What is your opinion on harmonious society in China

Made this development goals starting point is good, but the lack of effective means.

Investigator

How do you evaluate the policy of constructing harmonious society?

R2

The proposed policy is compatible with the status quo.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

R2

Entire social harmony and stability, and its impact on urban development are manifold, in general make the city more efficient to a more positive direction.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

R2

From large in terms of sustainable development is one of the elements of a harmonious society, to build a harmonious society, then I think it should be done to develop sustainable.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

R2

As mentioned above, the starting point of a harmonious society is good, but from the implementation level, the lack of effective means to achieve this goal can only be toward this direction. At present, I can understand the policy of building a harmonious society in the implementation of Jinchang, such as construction of ecological environment: planting shelterbelts, pollution control: In recent Jinchang air pollution situation has improved, as well as affordable housing, infrastructure construction, etc., of course, is also facing a lot of problems.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

R2

Yes

Investigator

Economy situation?

R2

The economic status of Jinchang, Gansu Province, is at the forefront, but also has the largest enterprises in Gansu Jinchuan.

Investigator

Environmental condition?

R2

Some deficiencies in the air quality is poor, and as a resource-based cities, mainly rely on extensive growth, development prospects uncertain

Investigator

Urban construction?

R2

Urban infrastructure is good

Investigator

The standard of living of the urban residents?

R2

Household disposable income in the province is in the first position

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

R2

Jinchang main advantage is the higher standard of living, life stress is small, and Jinchang located in the Hexi Corridor, travel is also more convenient, the employment situation is better.

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

R2

The first disadvantage is the poor air quality, dust storms more, there is a good prospect, as an economic pillar industry behind Jinchuan Company, there is no good direction of the transformation.

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

R2

Jinchang poor air quality, air quality is basically Gansu Jinchang worst, but compared with the past or have improved

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

R2

Smelter emissions with time, wind direction, etc. of a relationship, while emissions nor wind will be very poor circumstances

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

R2

Yes, pharyngitis

Investigator

How do you evaluate the sources of air pollution?

R2

Sources very clear, that the ore smelting process gas

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

R2

Jinchang current and future industry is the foundation and pillar of economic development, Jinchang present basically no other point of growth, if there is no industry, there is no Jinchang, Jinchang or that may become a ghost town.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

R2

In accordance with the current situation, it is not resist, with the local consumption of nickel ore, prospects are increasingly grim.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

R2

If you want to achieve sustained economic development Jinchang, ie nickel resource depletion in the local development after, we must make the transformation. If you do not transformation, rely on foreign imports of resources, and low-grade nickel ore, it will eventually be eliminated. The transformation of the economy, for now is to rely on existing

resources, industrial upgrading, and more to the high-end industrial development, such as nickel-based alloys, etc., but also to reduce the backward resolutely blind expansion of production capacity, one-sided pursuit of enterprise scale.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

R2

It can be said in a sense, Jinchang industrial competitiveness that is not a source of pollution restrictions. Industrial upgrading and development of the high-end industry, while also reducing emissions.

Investigator

Do you think whether pollutants control would constrain the economic growth?

R2

Short term will limit economic and industrial development of enterprises, but in the long run, this is the development trend of the times, if rational use will enhance the competitiveness of an enterprise's own way.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

R2

This would be a good move, certainly would benefit local residents, but the most important is Jinchang or from industrial pollution.

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

R2

In recent years really fast bigger, I think this is a good sign, of course, there are some drawbacks, but overall Jinchang promote urbanization to enhance the quality of life of residents, but also to promote the nearby rural to urban transfers.

Investigator

How do you see the great increase of number of housing every year?

R2

Housing over supply

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

R2

Basic infrastructure still meet the speed of urban expansion, especially road construction I think even some over-

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

R2

No

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

R2

Jinchang such a comparison for the special geographical environment, the surrounding environment, no impact, taking up very little arable land, the basic direction of the expansion of the original deserted next door, but the new plan also includes the construction of ecological aspects of the building, to help improvement of the environment in the region.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

R2

Increase the environmental pollution control investments, seeking to attract large companies to look Jinchang development. Governments should mainly take some positive guidance, such as strengthening infrastructure construction and urban planning, and guide enterprises to increase investment in the environment and promote local economic development mode shift and so on.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

R2

Enterprises should increase investment in pollution control, and environmental governance in the corresponding burden on certain responsibilities. Go mainly industrial upgrading of the road, in the original industry to efficiency, energy saving, environmental protection, direction, while expanding high-end industries.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

R2

I think the main one is to improve the quality of people, of course, but not the lack of an economic level, which is the basis for improving the quality of people.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

R2

The importance of the current term economic development is more important, of course, also taking into account the protection of the environment, pollution is mainly because the current air pollution on people's lives will not produce long-term effects intolerable. As a resource-based city, the economic development of the industry's transformation has a very important role, if the industry fell into decline, and that the city's development prospects are bleak.

Investigator

How do you see the importance of natural environment and environmental protection?

R2

Environmental protection is an obligation, because from the perspective of the natural environment, our environment has become increasingly deteriorated, this deterioration could not have been such a development, we want to consider the survival of themselves and future generations.

Investigator

How do you evaluate local residents' awareness of environmental protection?

R2

Awareness of environmental protection is still better, but there are still many deficiencies.

Investigator

What environmentally friendly activities do you practice?

R2

Try green travel, save water and electricity.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

R2

Such as garbage, try to use clean energy, mainly the construction and development of local institutional level restrictions.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

R2

I think there is uncertainty, by the conditions, policies and other effects.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

R2

In accordance with the current development point of view, should not remain so prospered. Now the transformation of enterprises lack the ability to policies also tend to extensive growth, the pursuit to expand production capacity.

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

R2

Hope to continue to live in a promising Jinchang, because if not get rid of Jinchang extensive growth and dependence on resources, economic growth cannot be continued, then here are not suitable for the development of future generations.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

R2

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

R2

None

Interview with R3

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

R3

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

R3

About 7 or 8 years

Investigator

Do you have some ideas why this term was proposed?

R3

Ecological and social development caused the destruction of a bad environment for sustainable development has brought the crisis.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

R3

Yes, affected. After the presentation of sustainable development, the pursuit of low-carbon life, able to walk without cycling, cycling is not able to ride.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

R3

Necessary

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

R3

Certainly contribute. Harmonious society, including human harmony first, followed by the harmony between man and nature. Recognizing social animals, only harmony between people, and people can live a happier life. Harmony between man and nature in order to bring sustainable development in order to bring a better future.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

R3

Sustainable development is to better harmony, harmony for the purpose of sustainable development.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

R3

Concept, people still acceptable. Specific behavior, or is not satisfactory.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

R3

Jinchang resource-based cities, rely on resource development industries. How to maintain the development of the city, there are resources left to future generations, is a very important issue, it is worth thinking.

Investigator

Economy situation?

R3

The more important

Investigator

Environmental condition?

R3

Environmental condition is promising, but there are many did not do

Investigator

Urban construction?

R3

Urban construction, in general good. In Gansu province view, OK, but compared with the eastern region, there is a big gap.

Investigator

The standard of living of the urban residents?

R3

Middle and upper in Gansu province.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

R3

Low cost of living, working pressure is small

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

R3

Poor environment, the overall standard of living is low

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

R3

Bad, very bad.

Compared with the nearby, Jinchang City is heavily polluted cities.

Compared with the past, much better now.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

R3

A little better at night than during the day

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

R3

Yes. Release chlorine, very pungent. Sandstorms, spring particularly severe.

Investigator

How do you evaluate the sources of air pollution?

R3

Natural environment + human factors

Natural factors than human factors large, but the human factor cannot be ignored.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

R3

Jinchang City to improve people's living standards, there is a significant role. Jinchang people rely on industry. But resources are limited and do sustainable development, Jinchang people will be able to survive this long, and even getting better and better. Otherwise, it may face secondary migration.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

R3

-

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

R3

Necessary to transform

No specific recommendations should be studied by an expert. Want to live, but no specific idea.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

R3

We have to pay a high environmental cost, and now you should consider how to reduce the environmental costs.

Investigator

Do you think whether pollutants control would constrain the economic growth?

R3

The short term, will certainly limit economic development, because under the existing conditions, the control pollutant emissions will limit production.

The long run, it will force companies to carry out technological transformation.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

R3

Yes, contribute

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

R3

Yes.

Front positive view, urban sprawl, the development trend of China. Urbanization process, but also mankind from an agricultural society to an industrial society, a necessary process. China was originally a low urbanization countries, which want to develop, is bound to urbanization, this process is unquenchable.

Drawbacks: short rapid population expansion, infrastructure can not keep up, it will give the city too heavy a burden. Eg. Traffic congestion, which is something almost 4,5 years.

Investigator

How do you see the great increase of number of housing every year?

R3

1. To meet the rapidly increasing urban population housing needs.

2. Merchants and outsiders hype. Jinchang now have two sets of three housing units and even a lot of people.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

R3

Infrastructure construction speed is relatively slow. Therefore, the city will create pressure.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

R3

There. Enclosure, not building a few years. Very prosperous area, has circled two years without land.

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

R3

A short time, the threat is greater than improved.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

R3

Leading role.

Now, in urban development, the government was busy selling land less than planned. Government has not completely fulfill their responsibilities. The former should be planning, land in the post. Government should actively participate and urban construction, rather than blindly reInvestigator on buildings.

Response to environmental degradation, the government should actively participate and fulfill the responsibilities of the government-led, to increase investment in the fund.

Deal with the city on heavy dependence transformation. If the city does not make the transformation, or does not perform more extensive development of the economic situation, the city's development will be restricted.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

R3

Key role.

Jinchang Jinchuan company reInvestigator on the development. Now, no more economic elements. Enterprises, Jinchang on.

Response to environmental degradation, very contradictory. To do more for the city's contribution, it is necessary more productive, we must consume more resources. Companies should consult and cooperate with the government.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

R3

We must look at the economic level of development, but also depends on the degree of environmental protection should be considered.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

R3

Originally both important. In Jinchang, environmental protection is more important.

Investigator

How do you see the importance of natural environment and environmental protection?

R3

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

R3

Very light

Investigator

What environmentally friendly activities do you practice?

R3

To participate in activities to improve the environment, tree planting. Water conservation, water recycling. Eg. Washing the face of the water used to mop the floor

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

R3

Sometimes it is a question of capability, sometimes face problems, do some act, afraid of being a joke.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

R3

Should be.

Jinchang confident on the premise that the human **self-awareness** and self-confidence in the ability of **self correction**.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

R3

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

R3

If Jinchang can sustainable development, want to stay. But I also hope they go to the environment a better place.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

R3

Jinchang located in edge of the desert, desertification. Large geographical environment is very difficult to be changed, the existence of the city pose a great threat.

Q.12. Is there anything else you would like to add?

Investigator

What are they?

R3

None

Interview with R4

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

R4

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

R4

About 10 years

Investigator

Do you have some ideas why this term was proposed?

R4

Too many people, too much pressure on the environment.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

R4

A little.

Life, there is a certain relationship with the savings. Concept of young people and the elderly, different ideas. Older people into the habit of saving resources, young people need to deliberate attention.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

R4

Involves many aspects

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

R4

Contribute a great deal

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

R4

Have in common

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

R4

Jinchang originally industrialized cities, the relationship between man and nature is very important, you need harmony. Now very contradictory, Jinchang metallurgical environmental pollution is very serious, because local is relatively backward, the introduction of the enterprise is relatively backward, exacerbated by environmental pollution. To completely avoid this conflict is unlikely, can only try to reduce this contradiction. Build harmony between man and nature, it is difficult. There hexibao industrial parks, and now all is investment in the South, large polluting factories. Residents consciousness very poor. And people power is too weak to do anything, mainly have to rely on the government. Many people are Jinchang Jinchuan company, they rely Jinchuan eat, so for pollution, there will not be too many complaints. Hexibao the afternoon, the air pollution is very serious.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

R4

Not prosperous, sparsely populated.

Investigator

Economy situation?

R4

Industrial cities, compared with the surrounding city, good.

Investigator

Environmental condition?

R4

More obvious in recent years changed. When I first came Jinchang, more sensitive, every morning feeling more choke.

Investigator

Urban construction?

R4

Not bad. Fewer people, appearance of the city very well.

Investigator

The standard of living of the urban residents?

R4

Living standards, to solve the food and clothing then, no balances, no tourism and education funding. Working-class standard of living depends mainly on the price, the price is not very high Jinchang.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

R4

Small pressure of life

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

R4

Relatively isolated people, ideas, relatively backward

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

R4

Air quality is not as good as the nearby city

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

R4

The air is relatively poor morning and night

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

R4

Yes, smell the pungent taste sensation

Investigator

How do you evaluate the sources of air pollution?

R4

And local businesses are closely related

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

R4

Very important

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

R4

Should be. Reserves in the end I do not know how much of the sustainable long, I do not know.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

R4

Not clear

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

R4

Yes

Investigator

Do you think whether pollutants control would constrain the economic growth?

R4

Not proportional relationship, just handle, and does not limit economic development.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

R4

Contribute

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

R4

Yes. Developed rapidly in recent years.

Advantage: Eastern are all plants, industrial and residential separation. Photovoltaic power generation, the economy has a certain role in promoting.

Disadvantage: increasing environmental pollution. Many foreign investment projects are spotted Jinchang cheap land, if you can use their own resources, wealthy residents themselves, the better.

Investigator

How do you see the great increase of number of housing every year?

R4

Not many people would have Jinchang City, and now everywhere in the building. For greater than demand, is not good.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

R4

Good

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

R4

Not a lot

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

R4

Threaten

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

R4

In China, government plays a leading role.

Address urban environmental pollution, plays the role of macro-control. Government's fiscal revenue comes from industry. Government to expand investment in environmental protection.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

R4

Jinchuan company has been mention of recycling economy, but specific to what extent, I do not know. Business, after all, the profits first.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

R4

Benevolent see benevolence and the wise see wisdom.

More contact with something, objective evaluation.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

R4

Protection is more important.

I often look at some foreign videos. Eg. U.S. national parks. In our country it is difficult to see.

Investigator

How do you see the importance of natural environment and environmental protection?

R4

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

R4

Not good enough

Investigator

What environmentally friendly activities do you practice?

R4

Have this awareness, but the behavior is still worse.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

R4

Concept too far behind

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

R4

Should be

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

R4

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

R4

(Laugh) cannot say

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

R4

The quality of government, enterprise and people, it is important

Q.12. Is there anything else you would like to add?

Investigator

What are they?

R4

None

Interview with R5

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

R5

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

R5

Nearly 10 years

Investigator

Do you have some ideas why this term was proposed?

R5

When a city, especially in resource-based cities, developed to a certain stage, when faced with resource depletion, raised in this context.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

R5

In the affirmative. Sustainable urban development, sustainable development of society, but also the sustainable human development. Between them are not independent. Urban development and personal life are closely related.

In daily life, save water, paper and other materials savings. From the previous passive way, it becomes an active way.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

R5

Relatively high level. Macro perspective, this formulation is relatively good.

Our society is now fast economic development, compared with cultural and other aspects of development is too slow. Past, some concepts and understanding by the influx of a large number of new things, human ethics and cultural values relatively large impact. "The era of moral decline, the concept of Lost Time." Gathering together a variety of factors, resulting in a lot of social conflicts. Therefore harmonious proposed is necessary.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

R5

Contribute. Social stability is the prerequisite harmonious and stable social and economic environment, a good basis for the development of the city.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

R5

Have in common. A harmonious society is a dynamic development and harmonious society on the premise that the dynamic progress. Harmonious development is also a sustainable development.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

R5

Jinchang City, a small city. Accomplish something.

Jinchang in the west, the economy is more developed. Cultural, social and political construction is relatively able to do many things at once. Big ways, it is quite satisfactory. Certainly not with the eastern city of ratio.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

R5

Not prosperous

Investigator

Economy situation?

R5

Economic conditions, in terms of Jinchang City is currently in the western development speed is not too fast. Gansu Province is the slowest pace of development. With respect to the terms of Gansu Province, Jinchang development speed is also OK. But in recent years, together with the cities than in Gansu province, the advantage is not great. Despite the strong emphasis on recycling economy now, but the resources of the economic situation did not change. A variety of industries, the development is not enough. With the local geographical environment, resources and social environment have a great relationship.

Investigator

Environmental condition?

R5

Environmental conditions, according to right to say that the natural sublimity is not very good, is relatively poor. Relative front decade, the existing natural environment has relatively big improvement. 2006 One of the top ten most polluted cities, and later vigorously transformation, nearly four years of air quality has been greatly improved, even better than Maryland. Other air humidity, etc., by the specific geographical location, is flawed.

Investigator

Urban construction?

R5

Urban construction, upper-middle. Overall urban planning no overall concept. Iconic buildings, merging with the surrounding enough. Overall urban construction, relatively strong randomness.

Investigator

The standard of living of the urban residents?

R5

Living standards, in general. Economic development, foreign exchange earnings, economy, etc., in the province's top three. But the residents' income increases, rising living standards, etc., lags far behind the rate of GDP growth.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

R5

Life pressure is small, the pace of life is slow, easing traffic

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

R5

Low quality of life, life in abundance, the low levels of education, low levels of the vision of open

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

R5

Improved. And plenty of room for continued improvement. More than in the past has been very good. Depends entirely on the Jinchuan.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

R5

Yes, there is changes

1. Different time periods, affected by the wind.
2. Fewer people, dead of night, enterprise sewage.

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

R5

Sometimes, choking stand

Investigator

How do you evaluate the sources of air pollution?

R5

This is a contradiction. Now economic development, resource processing, will inevitably pollute the surrounding environment. The key is how to balance the lever. Speed of economic development is very important. Key factors causing air pollution into how reasonable. Eg. Now recovered sulfur dioxide, fine.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

R5

Industrial For Jinchang, is equivalent to the blood for the human body.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

R5

Less optimistic. Although the present situation, a sense of crisis is not very obvious. But in the long run, Jinchang fundamentally sustainable development, to reduce the proportion of industry. Currently, most rely on industry to boost the economy.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

R5

Transformation is necessary.

Whole and western Gansu, awareness and perception. Eg. Potato chips, potato adds a lot of value.

Northwest's entrepreneurial spirit, inert stronger than southerners. Content with little to eat, farmerist, short-term sense.

Southeast, from the ancient Ming and Qing Dynasties on mercantilism. Rural farmers slack time now out of work, consciousness is a gradual process of change.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

R5

Environmental costs with economic development, cooked cooked light weight. Can not change the economic environment. Slower economic growth, the people can accept. Blindly economic development, damage the environment, stupid.

Investigator

Do you think whether pollutants control would constrain the economic growth?

R5

Not necessarily. This is a fallacy.

Control the emission of pollutants, the impact on business is a part of business to come up with funds for recycling and processing pollutants. On corporate profits is actually compressed. The key is corporate social responsibilities and obligations. If an enterprise has a strong sense of responsibility, can reduce profits, more investment in environmental protection. "Saving an inch, the left and descendants farming", but now the people are descendants of the jobs in the looting, "Banded."

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

R5

Should be good. If an environmental cost to individual enterprises to take the burden is heavy. But to be focused on the major environmental costs imposed sewage enterprises more personal as a secondary.

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

R5

Yes. Like eating a stimulant. I do not like.

Urban sprawl, not necessarily the pursuit of big. According to the scale of the urban economy, social development and population size and development. Urban area is too large, warm water and electricity consumption will increase a lot. Jinchang it should be a small city, but it should be built very delicate, living environment is very good, like an oasis in the desert. When the city really needs to expand, there are many used to develop the Gobi Desert. And you can put polluting enterprises have moved to the Gobi Desert, repair a road, a good commuter car.

Investigator

How do you see the great increase of number of housing every year?

R5

Chinese disease.

6,7 years ago, I felt Jinchang rates coming to an end. I do not know how can so many people to shelter the child. Many bought the house unoccupied, many people invest in real estate. But Jinchang City real estate market development is not good, not good real estate investment.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

R5

Infrastructure cannot keep going. Urban construction speed is too fast, the annual heating heating quality is far less than the design requirements. Supply side, raised a few days ago, but there has been no gas, because the city area expanded too fast, supply cannot keep up.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

R5

No

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

R5

Threat than improving

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

R5

Pivotal role.

The city's development plan, development speed, scale of development, with the government's macroeconomic policy has a direct relationship. The key is that different government leadership on these issues have a different understanding and causing duplication of investment, duplication, waste of resources.

Address urban environmental degradation: dependent on government leadership how to look at urban development and their own achievements. If it is a socially responsible leadership and historical responsibility, urban development should be placed in an important position, carefully consider the surrounding environment, to consider the future development of the city. But for now, this is relatively small.

Response to heavy reliance on the city: The Government is also very poor. Government is big business kidnapped. Does not provide the necessary support to the enterprise or green light, it is necessary impact on the local economy, and thus on the impact on other aspects of the city. "Jinchuan a sneeze, cold Jinchang necessary." But blindly accommodating, patient, conniving, enterprise scale, but the future government to reverse this cost will become the enterprise-scale geometric growth.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

R5

Corporate social responsibility.

Companies should promote corporate culture, but also the social and cultural components. An enterprise in a regional development, should pay close attention to local ecological development, social development, cultural development, but also an integral part of a harmonious society. Not a single large, aggressive alone, the outcome is a miserable death.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

R5

In different historical periods have a different understanding, at this stage:

1. Live
2. Social Harmony
3. People's thinking is not impetuous, consciousness does not realistic, do not follow suit, balanced state of mind
4. Income roughly balanced

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

R5

Jinchang environment itself is relatively poor, fragile ecological environment, and therefore efforts should be greater protection of the environment for economic development efforts.

Investigator

How do you see the importance of natural environment and environmental protection?

R5

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

R5

Poor.

Jinchang inherently resource-based cities, the environment on human made many warnings. But the simple pursuit of economic development based on the intent and impractical idea, residents generally the quality problems of the environment protection awareness is far less than the use of the environment. Awareness of the residents take a long time to wake up.

Investigator

What environmentally friendly activities do you practice?

R5

More attention to individual households. Garbage, water reuse, open garbage after. People around can do basic environmental protection, but the overall quality of people are relatively poor.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

R5

1. Social responsibility, social responsibility have been the impetus, with the power you do not need to urge others.
2. No large environments. Governments and civil society organizations should rely on more activities. Eg. Jinchang QQ group, green homes. Engage in some planting trees and grass, cleaning activities. Idea indeed, but relatively few actually do.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

R5

Yes, as long as the unremitting efforts, everything becomes possible. State Council on the sustainable development of small cities to reach a consensus. Eg. Yumen, buildings used for sheep.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

R5

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

R5

Refused to answer this question. (Do not want)

I am small, I wanted to go out, do not like this place, but think big place to open up horizons, more likely chance, give yourself space larger. But for whatever reason, did not go out, this is one of my mind.

I want my children, as long as have the ability, or can go out. Do not have to go abroad. But to go out, "read a trip" out to look for a place, for a change, to take root in another place, "Going with the flow downwards."

But this idea, evading a question, do not want to stay in Jinchang, unwilling to sacrifice youth in Jinchang. Decades with the solid devotion in the grass and frontier people than, not a level.

Avoiding disadvantages is human nature. I want my children to self-reliant, able to make a useful person to society, to make some contribution to society. To go outside, stay in the local than good.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

R5

1. Concept Problems

2. Planning

Determined at the macro concept to guide planning. Determine the correct concept of sustainable development Jinchang City, promising. Total change in the concept and planning afraid. Now the old variable. As long as we remain unchanged, Jinchang City will get better.

Q.12. Is there anything else you would like to add?

Investigator

What are they?

R5

None

Interview with R6

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

R6

Yes, heard of it, but do not know the specific

Investigator

If yes, can you remember when did you notice this term for the first time?

R6

More than 5 years

Investigator

Do you have some ideas why this term was proposed?

R6

For future generations

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

R6

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Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

R6

In order to let people live a stable life, life is getting richer, so as to harmony, all walks of life who have similar social order harmony, a large gap between rich and poor in our country

People want to know how to protect nature, love nature, including flora and fauna for future generations of life, harmonious society contains the harmony between man and nature

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

R6

Not see that contribution

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

R6

On the one hand to protect the environment, on the one hand to develop the economy, so there is a contradiction between the two

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

R6

Such as green corridor construction, green belts, public health and other aspects of the implementation of the street Yes, it is a relatively clean city

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

R6

Yes

Investigator

Economy situation?

R6

There Jinchuan company outsiders, the economy should be good, but we do not enjoy favorable policies

Investigator

Environmental condition?

R6

Jinchuan great impact on emissions, another is the dust

Investigator

Urban construction?

R6

Good, such as the road edge will be repaired a slight defect

Investigator

The standard of living of the urban residents?

R6

Relatively high

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

R6

Fruits and vegetables is good, the price is lower. Less populated, less crowded

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

R6

Serious environmental pollution, sandstorms

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

R6

Poor air quality, air drInvestigator, less precipitation;

A little better than in the past, sand greater

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

R6

-

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

R6

Yes, rhinitis and pharyngitis, is very sensitive to chlorine

Investigator

How do you evaluate the sources of air pollution?

R6

Chlorine from Jinchuan Group

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

R6

Has a significant role, Jinchang City is a city of heavy industry, city cannot be developed without industry

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

R6

Could not confront

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

R6

Is necessary, but according to the current situation cannot be cast, only the mines and other transfers to less populated areas

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

R6

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Investigator

Do you think whether pollutants control would constrain the economic growth?

R6

In our opinion there is no limitation, but the company is different considerations in terms of the overall technical progress is still needed

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

R6

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Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

R6

Yes.

With the city's expansion will result in pressure on the environment

Investigator

How do you see the great increase of number of housing every year?

R6

Developers pocketed the money, but the people did not benefit from it, the rich can be used to fry, but people who can not afford housing or who cannot afford housing

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

R6

Yes

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

R6

There is idle land near the school

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

R6

Pose a threat to agricultural land occupied by urban sprawl

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

R6

Government plays a dominant role for regulation and planning.

Any one government department are a headache about the air pollution, mainly see if I can make people satisfied.

As Jinchang City is concerned, do not rely heavy No, no, there is no heavy industry development.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

R6

Jinchuan's annual tax to the government very much, mostly from Jinchang Jinchuan company revenue.

Currently it can only move to remote areas, reducing pressure on the environment.

In recent years has improved, try to avoid emissions.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

R6

Human progress, people's living standards improve, the quality improves, society will progress

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

R6

For ordinary people, the environment is more important, the environment has talent to survive, survived to economic development.

Investigator

How do you see the importance of natural environment and environmental protection?

R6

Protection of the environment is conducive to future generations

Investigator

How do you evaluate local residents' awareness of environmental protection?

R6

We expect more, but less truly implemented, should strengthen the awareness

Investigator

What environmentally friendly activities do you practice?

R6

Enhance the education of students

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

R6

That should depend on government departments to solve

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

R6

Should be able to achieve

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

R6

I do not know what will become

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

R6

Do not want to, because of poor conditions in the economic conditions permit, I hope to go southern city

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

R6

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

R6

Should increase the recycling of used batteries; increase the propaganda of garbage classification. We generally do not understand what type of waste is recyclable.

Interview with R7

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

R7

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

R7

3 years

Investigator

Do you have some ideas why this term was proposed?

R7

Human use of diminishing resources, the human resources crisis in the future there will be. Promote recycling of resources, the development of new energy sources.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

R7

Now little effect propaganda efforts in our city is not enough. Now parked in media, specific life actions, there is no big impact.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

R7

According to my understanding of the situation in Jinchang. People must be longing for a harmonious future, but now many factors discord can be said that more and more harmonious. Eg. Cross-sectoral work, very convenient, was supposed to be a normal thing.

China is now the quality of people and ideas, is still in the stage of violence management, has not yet reached the stage of harmony. Harmony, and ultimately human qualities to rise.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

R7

Harmony between the industry, including the harmonization of development. Now the city's layout is preconceived way, you should take a reasonable layout.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

R7

Sustainable development, not only resources, but also harmony, but also improve the quality of people. Sustainable development including the harmonious development of society.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

R7

Jinchang now engaged in "a few cities with a record", "Civilized City" "Health City", "Environmental Protection Model City." Jinchang City, Gansu Province, is still relatively early to go. But the surface of the work more, in fact, literacy and cultural connotation type of development, not complete. Of course, this does exist to slow down after the process.

Feeling of discord between people, inequality. Eg. Banks, power companies, high income, many people are envious.

Teacher, very low wages, and are doing work not commensurate with the teacher's wages not as working people.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

R7

Jinchang City is a typical resource-based cities. 5,6 years ago in the entire western forefront, from the human concept of living, cultural awareness, revenue. However, due to the development of the entire country now, Jinchang City development slowed. Jinchang whole level of consumption is still high.

Investigator

Economy situation?

R7

-

Investigator

Environmental condition?

R7

-

Investigator

Urban construction?

R7

-

Investigator

The standard of living of the urban residents?

R7

-

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

R7

Fewer people drive less, slower pace of life, life stress small (housing, employment), suitable for the elderly living (air pollution and then improved some)

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

R7

Poor living conditions, harsh geographical environment, there is no place to play and relax, serious pollution

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

R7

Poor

Compared with the past, much better. Jinchuan an original release of chlorine, the city's pungent.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

R7

Morning air is relatively poor

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

R7

In recent years this feeling less. Previous night, had to close the windows. Work in the morning if the wind flow, then, is choking.

Investigator

How do you evaluate the sources of air pollution?

R7

Jinchuan company caused.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

R7

Jinchang economy has walk in the forefront of the western, the main advantage is that Jinchuan company. Jinchuan company's efficiency is better, stimulating the development of Jinchang.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

R7

Not necessarily. Jinchuan said to have developed the company's resources are basically similar, and now we must consider the problem of restructuring, otherwise the production will interrupt.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

R7

Investment. Cities with cheap land to attract other enterprises. Industrial parks and so can.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

R7

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

R7

Affected. But ultimately a question of money, there are still ways.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

R7

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

R7

Yes, the original western slope of land, and is now the city of.

The original rural area, many crops, can be appropriately improve the environment. Now all integrated suburban land, buildings and plant repair has become, reducing green, green environment is reduced.

Investigator

How do you see the great increase of number of housing every year?

R7

1. New housing and more, more and more people in the city, led the city's economic development
2. City many people, the pressure becomes larger cities
3. Rural people into urban people, the quality is not high enough, and the urban environment is not harmonious, affecting the degree of civilization of the city

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

R7

Basic match, Jinchang in infrastructure have done pretty good.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

R7

Yes, there is

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

R7

Help to improve, because the surrounding are rubbish, abandoned places.

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

R7

Leading global role.

But Jinchang buildings, government control in this area is far from enough. Other cities, including residential buildings and government offices have special characteristics. The construction Jinchang no uniform requirement, the layout more chaos, nothing special. Should adopt a certain way, highlighting the city's culture.

Address urban environmental degradation: Sustainable development intensity should be increased.

Response to heavy reliance on the city: going in to do some light industry and investment.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

R7

Leading role.

Local enterprises should actively respond to and compliance with national laws and regulations, and consciously control their pollution.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

R7

1. Economic Development
2. Improvement in the level of human civilization, improving the quality of self

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

R7

Long term, environmental protection is more important

Investigator

How do you see the importance of natural environment and environmental protection?

R7

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

R7

Poor environmental awareness

Investigator

What environmentally friendly activities do you practice?

R7

No specific participated in activities. Jinchang organization's activities in this area is relatively small.

Family life, saving water, recycling water.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

R7

Habit. Thought, can not. Think what a waste of a person, society does not produce a big impact.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

R7

Possible

Ideal model: buildings to a high standard of cultivation, which can withstand long-term facilities are used. Raise the level of civilization people, harmony between man and man.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

R7

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

R7

Yes, wish to

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

R7

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

R7

None

Interview with R8

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

R8

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

R8

About 15 years

Investigator

Do you have some ideas why this term was proposed?

R8

Because our city is a resource-based cities, sustainable development put forward is because our city and the northwest of the city to another city Yumen structure, economic development is similar, Yumen oil taken after completing the year, a lot of people from their homes leave Yumen, the whole city no one exists. Later, because of this, Jinchang and Yumen a similar situation, then people aware of the situation from the Yumen Jinchang situation. The fact is that sustainable development of the entire city cultural, economic, industrial property a continuation.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

R8

Certainly, in our resource-based cities, Northwest Territories relatively backward economy is not developed, if Jinchang after completing the mineral mining, it is not sustainable in the background, the city does not exist. So with our lives, the economy has a great relationship

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

R8

Countries for a harmonious society is very necessary, because people and their interaction should be harmonious, whether it is work or life, should be treated from the harmony and face. There are only a whole harmonious development potential, regardless of gender or ethnic or cultural environment, there is only harmony to the same forward and harmony this premise is the main

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

R8

Contributed significantly to a community a community, if there is sustainable development, certainly not without harmony, with harmony and incentive

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

R8

Certainly related, whether continuous, first social harmony, economic and cultural aspects have power. A social unrest, and not harmonious, environment is not harmonious, there would be no power, and harmony is a necessary prerequisite

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

R8

Jinchang this great environment, I do not particularly understand. But in this environment where I work, the harmony is very important, and it has its particular existence, whether teacher education students, or between colleagues, certainly do have the power of harmony, for a work unit or the environment are very good, if not harmonious, everyone apart, anyone who thought, no overall unity of body, it certainly cannot form a force

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

R8

Not really

Investigator

Economy situation?

R8

In the west, the Jinchang in the eyes of others is a relatively large economic potential of the city, outsiders may think Jinchang economic situation is better, but from my own point of view of economic income, and now Jinchang current levels of consumption are not particularly consistent. We now take more than 2000 yuan Jinchang wages are a lot of people, who are considered on 2000,3000 high wages, in fact, the outside world that our wages are relatively high, relatively comfortable life, in fact, we stress getting bigger, because the traffic is not the outside world particularly

convenient, particularly fast price rises to the level of consumption is particularly high, however, and we can not proportional wage formation, wage structure is not particularly good

Investigator

Environmental condition?

R8

Environmental conditions are not particularly good, first we are in the desert, arid climate, rainfall, nature for our survival pressure is particularly great; second we are also an industrial city, the emissions generated more, this is every city inescapable development, industrial development in the release of harmful gases will be more, so that the environment and the natural environment is more cruel

Investigator

Urban construction?

R8

Nearly 4,5 years Jinchang city construction development level soon, five years ago, not so fast, in the place where our units are desert five years ago, but five years later, the city is developing very fast. And there is a great feature Jinchang, Jinchang people are very proud that this city is a very clean city, street construction or maintenance of other aspects of the environment, tourism and other ways from the comparison, Jinchang in a clean this regard, the country are doing better, the surrounding environment there is little corner, in large cities have a lot of dead ends. Environment clean, beautiful urban development

Investigator

The standard of living of the urban residents?

R8

The overall standard of living is not particularly good, salaried work more, the bulk of the city is salaried, because it is an industrial city, many people go to work, do business with fewer people, but also more occlusion, traffic is not particularly well developed, so many people rely on work life more than 2000 dollars, revenues relatively large impact on ordinary people

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

R8

Suitable climate. Southern weather is dark and damp, and Jinchang summer sky blue, clean, dry air, the people more compatible, there is little droughts, floods, etc., although the lack of water, but there is little drought and waterlogging.

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

R8

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Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

R8

This year a lot better than in previous years, but the whole is not particularly good

Certainly poor compared with nearby cities

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

R8

There is a change and change particularly large, Jinchuan release chlorine immediately become choking, can not stand around here a lot of people have rhinitis, and this has a great relationship, dry climate coupled with the release of some of the Jinchuan industrial emissions, and certainly particularly affected large

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

R8

Many people living in Jinchang physical condition is not particularly good, and air pollution have a great relationship

Investigator

How do you evaluate the sources of air pollution?

R8

We are the industrial city, industrial city certainly can not be avoided to some of the exhaust emissions, such as Jinchuan large industrial cities of the enterprise, it is certainly more exhaust emissions of the various

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

R8

Very important, and we depend Lai Jinchuan Jinchang is the company's industrial construction, and certainly the level of our lives depends on the development of Jinchuan

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

R8

If handled properly, it is likely not to resist, all resources are depleted, its like Jinchuan 60 years of mining, and now some old mine may have not mine to produce, and it will certainly happen this problem

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

R8

Is necessary to transform, because we depend Lai Jinchuan company, if there is one day die Jinchuan company, then we will follow with bad luck. The proposal did not pay much attention, it seems Jinchang City Yongchang County, famous for malting barley in the world are in a very important position, and it is particularly good quality, so you can learn to Yongchang, it seems the country's total output of 1/20.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

R8

Sure our economy certainly is environmental consideration do

Investigator

Do you think whether pollutants control would constrain the economic growth?

R8

Certainly, this is conflicting, If we control pollutants certainly affect production received, thereby constraining economic, is a pair of contradictory factors.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

R8

That is certainly

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

R8

Yes

Jinchang City and the southern cities than it is in fact a small city, in recent years become large because a lot of people come here, I feel Jinchang city in the western side of the economy is relatively good, so a lot of working and doing business here money, another key aspect of the development of farmers into the city, the farmers after saturation certainly not so quickly developed.

After a lot of farmers into cities, to transform must have economic income, business is not good to do, it is certainly facing people live in the city, but the problem of income.

Investigator

How do you see the great increase of number of housing every year?

R8

Mainly Builders fried a few years ago is not so large housing, real estate agency in recent years is a lot of real estate, resulting in a lot of people wards, then second-hand housing sold to neighboring farmers, real estate fried up , according to our economy in terms of revenue, our price is definitely too high

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

R8

Basically match

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

R8

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

R8

Threaten

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

R8

Government's leading role is very important, or if you want to build the project governance environment, the government will certainly have to come forward, and certainly would make things right.

Jinchang Jinchuan company and two units are, but it is two flat level units, both of how coordination is the key, if coordinated, and certainly a good surrounding environment, but reduce pollution and restricted economic development, is a contradiction issue.

Indeed rely on heavy industry, Jinchang is a remote northwest of the city, if there is no heavy industry as the basis, Jinchang City would not exist.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

R8

Mostly Jinchang Jinchuan Jinchuan company's economic good, a good income workers, the stimulus for urban consumption is better, then the city will no doubt follow better. For environmental issues, this is a very contradictory, there is no good way.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

R8

Harmony is very important. Wide open this year after completing eighteen, people feel themselves. First, from the central to local, very effective against corruption, fighting corruption for the people concerned, is the largest building a harmonious harmonious living conditions are better now, but there is imbalance in people's minds a sense, a sense of imbalance is caused because of corruption the corruption has led to consumption, housing and other aspects of superiority, so rooting out corruption in order to build a harmonious society good

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

R8

From the current situation, or economic development is more important. Because for us ordinary people, the need to improve our economic purchasing power, have the ability to protect the environment, if the economy is not standard, it is not about the environment

Investigator

How do you see the importance of natural environment and environmental protection?

R8

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

R8

Good, including planting large amount of trees. Our quarters of the residents of the surrounding green belt are very caring, there are also people take the initiative to stop destructive behavior, generally pay more attention to the surrounding environment

Investigator

What environmentally friendly activities do you practice?

R8

Planting trees in the area, flowers and grass, landscaping the surrounding environment is first added to their beauty, but also for the second contributing to the environment. From the Buddhist teachings speaking, all the waste is shameful, so I ate, from water use, can save as much as possible to save, not to save money

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

R8

This is the case, because to work, so usually can not think of many to achieve, due to work pressure or no time

Q.10. Can you describe a model of sustainable city for Jinchang
Investigator

Is it possible to achieve sustainable development in Jinchang?

R8

From the current situation, it is possible, from the television news has learned that the leadership of Jinchang unanimously concerned about sustainable development, which is one of their major themes, the past few years foreign investors and funds from abroad, urban construction also great importance to sustainable development. Jinchuan company and in the field of mining, processing in the field. Sustainability in Jinchang Jinchuan company and has gained the upper.

We wish the city beautiful environment, there is a good cultural environment, because we are a new city, did not form our unique cultural heritage, culture quite superficial. And people are more harmonious, beautiful city, there is no corruption.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

R8

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

R8

Do not want to, because they worked so hard life in the third tier cities, want their children to first-tier or second-tier cities, and even sent abroad, in my mind, is a Swiss national, particularly desirable, less corruption, a beautiful environment, and people live in harmony.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

R8

Yes, water shortages, but also restrict the development of Jinchang City one of the most important issues.

Q.12. Is there anything else you would like to add?

Investigator

What are they?

R8

None

Interview with R9

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

R9

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

R9

About 10 years

Investigator

Do you have some ideas why this term was proposed?

R9

Derived from the development of the Western countries, they plunder the environment through rapid development, China's development has been relatively late, you can learn from it, from the beginning to avoid these errors. Do not over-consumption of energy, not on the surrounding environment vicious impact on future generations to leave a good thing.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

R9

Greater impact. On the environment, energy, urban construction great impact on us, protecting forests, grasslands, afforestation, forest, grassland; life, for the classification of waste treatment, pollution of the environment is easy on the battery recycling and other things.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

R9

Understanding of this concept is not particularly deep. Including interpersonal harmony between man and nature live in harmony, economic development does not take Western society's development model.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

R9

For city managers, to serve the public for some more considerations, such as green, transportation, housing, etc., contribute to social harmony.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

R9

The ultimate goal of sustainable development is to social and economic development and stability, a stable life, happiness, harmonious society, the ultimate goal is the same.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

R9

In my school, for example, my school is suburban four villages in rural student services, Jinchang due to a particularly large number of migrant workers and their children to school problems are common problems parents and the community, our school after the completion of recruit a large number of migrant for the children, they account for my school about 80% of total number of students, these problems are resolved, migrant workers will be able to ease the work, study and contribute to the building of the city, while eliminating some social unrest.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

R9

Yes

Investigator

Economy situation?

R9

In the western cities, in the middle level.

Investigator

Environmental condition?

R9

Compared with a decade ago, the relatively large improvement in urban greening, public places, and other aspects of the construction progress, and now urban green belts, parks, squares, and so giving us this is a big city changed.

Investigator

Urban construction?

R9

Aspects of urban construction in the big bad, such as road transport, housing construction, etc., in minor areas, such as supporting facilities within the district there are still some shortcomings, such as road construction also cause damage to the road surface after the urban green area is not enough.

Investigator

The standard of living of the urban residents?

R9

Living standards in general, our teachers' wages at the middle level in the entire city, home to affordable housing loans, wage inflation rate lags far behind the inflation rate, there is still much room to improve living standards.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

R9

Housing prices cheap, low consumption of basic living

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

R9

Wages far below the large eastern cities, traffic inconvenience, poor environment

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

R9

Air quality is below average, and relatively poor in nearby cities

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

R9

Morning more serious air pollution in the afternoon large sand, dust pollution is serious

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

R9

Yes, the impact is obvious, and chemical composition of the air when a large quantity, watery eyes, respiratory obvious odour

Investigator

How do you evaluate the sources of air pollution?

R9

Jinchuan smelter emissions of sulphur dioxide, hydrogen sulphide and other

Q.5. How about the economic development of Jinchang**Investigator**

How much the industry is important for the economic development of Jinchang now and in the future?

R9

Industrial For Jinchang now is very important, because according to Tuo Jinchuan Jinchang City's economic development up metallurgical company, Jinchuan is a resource-oriented enterprises, although it is now in transition from foreign purchases of raw materials and other areas, but or in the local mineral as the main raw material, with fewer and fewer minerals, Jinchuan's economy may shrink gradually, so if we just rely on the development of heavy industry in the future will also shrink the economy, the future still have to other areas to find a way, you cannot rely on heavy industry, and industry to the city's environmental impact are great.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

R9

-

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

R9

Transformation is necessary. Shandong Yantai as the prototype, the original agriculture is relatively developed, but in recent years import and export trade, light industry - such as garment processing, cosmetics, etc., the local economic development is very important, Jinchang also available from metallurgy, machinery manufacturing and other fade, steering trade, handmade and other direction, because the western human resources idle, both to the south and other places to work, if these people can come back in some of the local technical work, is good for the local.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

R9

Jinchuan company specializes in chemical plants, emissions of sulfur dioxide, etc. for further processing, the conversion of sulfur dioxide to sulfuric acid. This conversion process is actually a loss, this is an environmental cost of emissions in order to further processing, so the environmental costs of economic development may be necessary to account for the part.

Investigator

Do you think whether pollutants control would constrain the economic growth?

R9

If left unchecked, the emission of pollutants, but also the possibility of sustainable development does not exist, like a paper mill effluent discharged into the surrounding farmland, then farmland, forests and other raw material for papermaking never outputs, then the papermaking enterprises lost development opportunities.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

R9

For residents benefit more Jinchang elderly disease, cancer prevalence is high, a large part is due to the local environment caused by environmental pollution for the health of residents of the impact is very large, so many Jinchuan's retirees will go to the southern coastal cities to live. If we can better environmental governance, then local residents will live happier.

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

R9

Yes.

Surrounding countryside, West Village, Ma Kishimura original land area is very large, from me here, year after year to see the farmland occupied buildings, originally surrounded by wheat fields, and now more and more buildings.

Development of the city is one thing, but you should not use more arable land, so a smaller impact on the environment. After all, our arable land is limited, although we are industrial city, but we are everyone's life is inseparable from the land;

Improve our living environment;

The ultimate impact of the occupation of farmland life foundation.

Investigator

How do you see the great increase of number of housing every year?

R9

For Jinchang is not necessary to add so much housing, and now the district where some of the new housing in 2023 or even in 2045 no one stay, indicating that people who buy homes are not particularly need this housing may be in for investment purposes .

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

R9

Yes, the new district has facilities in

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

R9

Yes, there are schools across the land idle for two years

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

R9

Threat, after all, the city is a construction-based, building on the surrounding environment, especially for life and other aspects of human activity greater impact, will pose a threat to the surrounding environment

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

R9

-

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

R9

Pillar role in Jinchang enterprise economy very large proportion of workers in another Jinchuan very large proportion of the urban population, enterprises in all aspects of urban development has a relatively large impact, such as in environmental, logistical services, etc., It can be said that more than half of Jinchang is Jinchuan Group.

First business leaders at all levels to really pay attention to this aspect, from the heart awareness of environmental pollution problems, not just to complete the requirements and meet the inspection superiors, to strengthen the management, implementation emission standards.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

R9

Facility is not advanced, more lies in the quality of people, if the degree of civilization of urban residents, improve the moral qualities, it can be said that the progress of society.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

R9

Under the premise of protecting the environment, rapid economic development and to protect the environment as a precondition.

Investigator

How do you see the importance of natural environment and environmental protection?

R9

Arrived Jinchang when I was a little girl, but do not particularly like it here, because the origin of picturesque scenery, mountains everywhere wildlife, to Jinchang, the city is only one side of the dry river there are garbage, etc., the mountains are also bare is a stone. A long time now, for the cities also have feelings, see the city in development, the environment is improving, more and more like the city, so environmental protection is a very important for a place.

Investigator

How do you evaluate local residents' awareness of environmental protection?

R9

Environmental awareness of young people some strong, some almost a little older, SJ opened every spring you can see many elderly people holding tools breaking branches from the trees, and pick roses roses open and chaos garbage, etc., mostly older people some environmental awareness badly, younger people slightly better, receiving more education. Although environmental awareness also some gaps, but strengthened.

Investigator

What environmentally friendly activities do you practice?

R9

Every spring will go to planting trees, usually daily garbage disposal, and savings.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

R9

Yes, usually only pay attention to the details and specific environmental practices are less pure. One by the larger social environment, social environment in a number of environmental activities will be carried out under some pressure, such as picking up trash on the street, etc.

Q.10. Can you describe a model of sustainable city for Jinchang**Investigator**

Is it possible to achieve sustainable development in Jinchang?

R9

This should improve the environment and other aspects like a lot of ways. Further improve the environment around us, the further development of the tourism industry, there is a lot of tourism resources, near the desert and Gobi; further development of traditional crafts, the environment will not be affected.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

R9

If the city leaders cannot find a better way of urban development, it may not continue to prosper, because economic development is very simple, once the Jinchuan problems, Jinchang City will be a problem.

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

R9

Do not want to, want children to go to a better place to live environment

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang**Investigator**

What are they? Why they are important?

R9

Urban management issues not detailed enough, more details, such as the city's repeated construction, repeated construction and other waste of resources and influence lives.

Q.12. Is there anything else you would like to add?**Investigator**

What are they?

R9

None

Interview with R10

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

R10

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

R10

About 7 or 8 years

Investigator

Do you have some ideas why this term was proposed?

R10

For our children and grandchildren

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

R10

Personally feel that the concept of sustainable development is good, but their strength is too meager, it has no function

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

R10

Is necessary to mention now is not too late, if it is just to put forward, there would be no effect. If you can take measures to find a way to implement, then for each individual will be better

Harmony between man and nature:

Nothing more than protecting the environment, so that nature and human about everything, to better serve humanity.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

R10

Has a very large contribution, take Jinchang City, that is, Nickel, which (nickel resources) is only 50 years of mining period, and if we can achieve sustainable development, then its future is not limited to 50 years, and we as Jinchang people, and of course hope that the sustainable development of Jinchang City, able to develop better

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

R10

Only the harmony between man and nature, man and rational use of natural, in order to allow natural service better for everyone. Only really penetrated the idea of sustainable development, in order to urge people to better harmony with nature, I think they can not be separated, I think.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

R10

Not good

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

R10

Yes

Investigator

Economy situation?

R10

Because it is the country's Nickel-economic aspects should be at the forefront of the western. But in fact, because the price and so on, it sounds wages can, but with the price ratio is very usual

Investigator

Environmental condition?

R10

Relatively poor environmental conditions, one is wind, the other is particularly serious air pollution in Jinchang

Investigator

Urban construction?

R10

Urban construction and development very quickly, for road landscape, green land area are increasing year by year, but the construction of ground quickly, inadequate protection

Investigator

The standard of living of the urban residents?

R10

Standard of living is relatively big gap between rich and poor, as we will only take this guarantee subsistence wages, underneath there is a group of people do not like us

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

R10

No any advantage

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

R10

One is here every year in the spring and winter wind in particular, and of course with green and so on. The most important is wind, dry air, and some endemic diseases, allergic rhinitis, sinusitis these in our particularly high probability of occurrence, which is here with us air quality of a relationship.

Q.4. How do you evaluate the urban air quality in Jinchang**Investigator**

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

R10

Compared with foreign cities, air quality is relatively poor, after all, is an industrial city, cannot be avoided

Compared with the past, air quality has improved slightly

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

R10

Air quality is worse at night

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

R10

Significant impact is the child rhinitis, if the period of time to the field to be automatically good, but in the Jinchang City before they can be controlled through medication

Investigator

How do you evaluate the sources of air pollution?

R10

As we all know, is the company's smelter emissions. Especially in the evening, 2 points if you get up, particularly choking

Q.5. How about the economic development of Jinchang**Investigator**

How much the industry is important for the economic development of Jinchang now and in the future?

R10

This is not easy to say, just temporarily run industrial Jinchuan company employees related with our relationship is not particularly large

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

R10

Not possible

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

R10

It is necessary, but the reality is that may not be realized because of mineral resources and the surrounding environment, so, of course, if we can turn into agriculture-based, breathe fresh air, we are willing to

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

R10

Yes, the performance of economic development should not be reflected in the surface, and should be reflected in the level of life of residents, but now it seems like roadside beautification up, but residents of living does not go up, is not directly proportional to

Investigator

Do you think whether pollutants control would constrain the economic growth?

R10

Should not, but for generating pollution factories, if you want to control pollution, it is bound to introduce some high-tech equipment, which it would only have an impact on the plant, while there will be more people concerned affect

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

R10

Yes, spend a little money, earned a big future, namely the use of higher fees in exchange for the future, but also nothing

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

R10

Yes

Phenomenon is mainly migrant workers in cities, the surrounding farmers rich, for our children's school, a home in the rural security, security of a home in the city, which will inevitably lead to a growing demand for housing, etc. large area, and then accompany this industrial parks and other areas of expansion of the city's area is getting bigger

No defects considered

Investigator

How do you see the great increase of number of housing every year?

R10

As I said, is that the surrounding farmers into the city for our children to go to school, his family was good to buy a building in the city to go to school for the children, but also because the rich are now more, their housing area requirements, environmental requirements more large, the original house has been unable to meet the individual wishes, so had to add some houses that meet their needs

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

R10

Temporarily should be relatively consistent

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

R10

No, as far as I know

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

R10

Contribute to improvement of the environment surrounding the western slope of the White House Tsui area of expansion in the city after many farmers into the city, the original garbage dumps, no order of things now fewer emissions, speaking from the urban landscape has changed

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

R10

The most critical role in guiding the government how decisions will be how urban development.

Is to increase the waste, waste disposal.

In our Jinchang, they can only rely on industry, because we have too few resources other Jinchang City, the location is not good, so this cannot get rid of dependence temporarily.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

R10

Should first recognize the dangers of environmental pollution, and secondly from these aspects, the introduction of appropriate equipment, try to put on the people, objects minimize pollution.

If this pollution has caused significantly on the surrounding crops, human pollution and they will straighten out for a while, but if you do not produce significant harm, I did not see what they have taken special measures to prevent significant contamination.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

R10

Should be more ordinary income urban family income and living conditions in the most casual two aspects of civilization. It seems that a balance of income and not the gap is too large, the other is the public / state residents civilized behavior, civilized behavior is very important. Now Jinchang level of civilization is undermined.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

R10

Should first protect the environment, protect the environment at the same time be able to gradually improve the income level of residents

Investigator

How do you see the importance of natural environment and environmental protection?

R10

It already exists in our generation may not have any significant impact, but it is for us there is a serious threat to future generations, after all, we do not feel, they think it more appropriate for making this lifestyle, but in the their offspring who will be reflected.

Investigator

How do you evaluate local residents' awareness of environmental protection?

R10

Poor

Investigator

What environmentally friendly activities do you practice?

R10

No large event, but your own home to be able to take advantage of the use of plastic bags, do not throw away once, even if it is to give to their brothers and sisters.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

R10

Sometimes people say that they are not afraid being regarded as unnormal

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

R10

If you say and do, it is possible, if the light saInvestigator no, it will be impossible

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

R10

The surface will be more prosperous, prosperity can actually see us up on the living conditions of ordinary people

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

R10

Do not want

Jinchang One bad air, then look no development is the future

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

R10

The most important thing is the public's awareness of the problem

Q.12. Is there anything else you would like to add?

Investigator

What are they?

R10

None

Interview with R11

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

R11

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

R11

10 years

Investigator

Do you have some ideas why this term was proposed?

R11

I do not know, not very close with my own lives.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

R11

Certainly affects the individual. Positive thinking their behavior.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

R11

-

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

R11

-

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

R11

-

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

R11

-

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

R11

-

Investigator

Economy situation?

R11

Middle

Investigator

Environmental condition?

R11

Middle and lower levels. The air quality, relatively poor.

Investigator

Urban construction?

R11

Good, in the forefront

Investigator

The standard of living of the urban residents?

R11

Wages are not high, consumer prices are rising faster, so relatively poor living standards. Wages cannot keep up with inflation.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

R11

-

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

R11

-

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

R11

Compared with 3,4 years ago, has been greatly improved. At least not every day, the smell of chlorine.

Nearby are the agricultural city as an industrial city, Jinchang air quality is certainly a lot worse.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

R11

Depends on wind

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

R11

Air choking, sometimes blinded. Other parts of the body obvious discomfort.

Investigator

How do you evaluate the sources of air pollution?

R11

Jinchuan group smelting pollution.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

R11

Jinchang industry-driven economic development, plays the role of role. If Jinchuan languish, Jinchang becomes a dead end.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

R11

Jinchang economy is taken from the local mining ore smelting, with the consumption of local resources, Jinchang economic crisis gradually emerging. Own resources is not too much, and later discovered the next four coal mines and oil, but overall, buried deep, mining more difficult, too costly.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

R11

-

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

R11

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

R11

Will not. On the contrary, will be more conducive to the development of industrial enterprises. Otherwise, it will form a sick cycle, the environment is getting worse, and ultimately also affect the development of enterprises.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

R11

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

R11

Yes.

Large area good. But from the point of view suburban four villages, the surrounding farmland were expropriated, less favorable. If only wasteland into the city, turning waste into treasure, is good.

Investigator

How do you see the great increase of number of housing every year?

R11

The poor poorer, the rich richer.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

R11

Infrastructure lag somewhat behind. Eg. Heating, now 6,7 years ago designed with a heating, many houses have been beyond the scope heating, heating can not keep up.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

R11

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

R11

Threaten

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

R11

Regardless of how the development of a place, people's lives getting better, should be the government's primary responsibility.

Address urban environmental degradation: strengthening the comprehensive management, so that environmental pollution problem is getting smaller.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

R11

Leading local economic development, the role of people's lives richer. Jinchuan to absorb surplus labor around.

Address urban environmental pollution: to vigorously develop the circular economy, improve the environment

Local industry corporate social responsibility is still relatively good, in the gradual pollution problem.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

R11

1. The money, there is room to live, there are rice
2. Equitable access to education and employment opportunities

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

R11

Economic development is very important, but environmental protection must not lag.

Investigator

How do you see the importance of natural environment and environmental protection?

R11

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

R11

OK, not too good, nor bad.

Investigator

What environmentally friendly activities do you practice?

R11

From the smallest of everyday life start, recycled plastic bags, do not throw cigarette butts.

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

R11

This is the case. No willpower.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

R11

Possible

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

R11

Good wishes

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

R11

Do not want to. Environment is too harsh.

If you continue to follow the current practice, strengthening environmental governance, or want to live here, after all, lived here, right here, have feelings.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

R11

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

R11

None

Interview with R12

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

R12

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

R12

More than 10 years

Investigator

Do you have some ideas why this term was proposed?

R12

Resources are not infinite, humanity is to develop, requires resources can be recycled, the need to survive.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

R12

Impact on individuals will not be too specific.

Concept, global awareness, awareness of the human resources are limited.

Note that conserve resources consumption, purchase products consideration of resource consumption.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

R12

A kind of Chinese concept, which is now politicized. Chinese "Heaven" since ancient times, and now reintroduced, the idea, nothing novel. On the harmony, the harmony and understanding we now pay more attention to social relations, the relationship between people, live in harmony. Our country has not yet risen to the "Heaven" level, people and nature in harmony, in the present case does not have. Admiral large extent, people and nature in harmony, is really harmonious. Now our cultural, political, economic, and have not reached the harmony between humans and nature.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

R12

There should be some of the city's managers, planners proposed a new subject, need science.

Jinchang City, particularly the concept behind, no planning, do not know how to run the city. Will not run into a characteristic type of place.

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

R12

Sustainable development, and in the phenomenon appears as harmonious. The two contents are the same. Expression is not the same.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

R12

Not good

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

R12

-

Investigator

Economy situation?

R12

Economic conditions, in the West still can, but there is no superiority. Digging sell baby, "tent city", a bunch of people came here mining, no culture, no history, no foundation, no future.

Investigator

Environmental condition?

R12

Environmental condition has been improved, but deterioration of the large side. The mining and harmonious development of the city opposite. Eg. Yumen, is sad. Now "short-lived glory."

Investigator

Urban construction?

R12

Level of urban construction, dysfunction, only open function. Cultural functions, political functions, traffic function, are very poor. A lot of money for duplication, duplication of investment. Rather than invest in environmental protection because green is not output.

Investigator

The standard of living of the urban residents?

R12

Living standards, basic food and clothing. Peripheral cities. Three tier cities are not really. Particularly important concepts.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

R12

Low consumption

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

R12

A modern condition of the natural economy. No flow of cultural movement.

Q.4. How do you evaluate the urban air quality in Jinchang**Investigator**

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

R12

Pollution levels nationally renowned.

"Happiness index low of happiness"

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

R12

2am-8am, the worst. Jinchuan blatantly emissions. During the day the company will control.

Truth as test reports, is an illusion. Jinchuan fines annually pay a lot of sewage, and then wantonly sewage. Long as the state inspection department to check, to stop emissions.

The city center should be built in a reasonable position, middle of the city should not be smelted. No rational urban planning.

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

R12

-

Investigator

How do you evaluate the sources of air pollution?

R12

Caused by a single production structure. "Destructive development", large energy to grab, to large energy consumption, pollution of large energy, large-scale depletion. Establishment of the city's foundation, development, conflict with sustainable development.

Q.5. How about the economic development of Jinchang**Investigator**

How much the industry is important for the economic development of Jinchang now and in the future?

R12

Very important

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

R12

-

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

R12

For sustainable development, we must change our thinking.

1. Weakening industry, the development of new energy base material.
2. The transfer of heavy industry.
3. Strengthen the tourism industry. Desert tourism. Animals, desert plants, desert culture
4. City of Culture, food city.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

R12

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

R12

Will not

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

R12

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

R12

Yes. Limit has expired.

Unless there is a new development ideas and direction, otherwise the city will shrink.

Investigator

How do you see the great increase of number of housing every year?

R12

The only investment projects, but Jinchang real estate no future. The fate of the city can be foreseen, the longest 70 years. City without brackets.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

R12

That is not clear. Just a small town only, urban functions are not perfect.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

R12

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

R12

Threaten

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

R12

Very important role. Government is the city's master, urban planners, managers.

But the current government in the management, the lack of scientific evaluation and management, and the lack of a statutory nature. Change direction for a term of leadership, the city became a headless flies. The city's overall development ideas should be long-term change.

Residents of the city's efforts to change with each person have a relationship, Jinchang City, hundreds of trees planted per capita. Government to spend taxpayers' money to fight their own performance.

Deal with environmental pollution, the government should improve rational knowledge. And to be pragmatic. Science.

Government's management team needs a scientific research and feasibility studies.

Weakening the mining city. Development of tourism, Roman culture, Mongolian culture. Tourism industry is sustainable development. The city is promising, but no one operation.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

R12

The city's main polluters, the main destroyer. Surface increases GDP, in fact, to the detriment of the residents at the expense of the environment and health. And the management of the enterprise itself behind the rapid expansion, not a modern enterprise, even listing can do. Only dig resources to sell.

Jinchuan company formerly directly under the central enterprises, until now, businesses and government opposition degrees still exist, the lack of integration with the local degree. Can not really put the city's development, local environment, taking into account the health of residents in enterprise management, just put yourself bigger.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

R12

People-oriented, comprehensive human development as a fundamental.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

R12

Environmental protection is more important

Investigator

How do you see the importance of natural environment and environmental protection?

R12

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

R12

This is the only place where self-confidence.

As long as the planting labor and environmental protection activities, no complaints, we all recognize the importance of the environment.

Investigator

What environmentally friendly activities do you practice?

R12

-

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

R12

-

Q.10. Can you describe a model of sustainable city for Jinchang**Investigator**

Is it possible to achieve sustainable development in Jinchang?

R12

Qu Yuan's words, "road is long Come"

Concept not yet in place, way of thinking has not yet reached the sustainable development of Jinchang City on this level.

Ideal model: City with a strong cultural convergence function "cultural desert town." Cultural functions inherent. Further development of tourism functions. Development of materials, new energy, need efforts of several generations.

No university, no research institutions, did not do basic research support.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

R12

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

R12

Do not want to.

The city has no history precipitation and no future to let me stay.

Now we must quickly take urban development problems.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang**Investigator**

What are they? Why they are important?

R12

Most people talk investment, in fact Jinchang not money, lack of ideas.

Emancipate the mind, open ideas, go look to other cities to learn from city management.

Q.12. Is there anything else you would like to add?**Investigator**

What are they?

R12

A person living in a city a long time, do not love the city is wrong, "more love more hate".

Lack of people, unable to retain people. Real people with content ideas, unable to retain. People are left to mediocre.

Affected party, led a party of people do not, so there is no such atmosphere.

Interview with R13**Q.1. How do you understand sustainable development****Investigator**

Have you ever heard of the term of sustainable development?

R13

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

R13

About 20 years

Investigator

Do you have some ideas why this term was proposed?

R13

Earth's resources are limited, the population is constantly expanding, human beings can obtain limited resources. Resulting in resource and environmental issues, human living environment is not sustainable.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

R13

Yes, affected.

For individuals, a great proposition. However, for a variety of specific things are closely linked.

Eg. Jinchang air pollution, before more than 60-year-old lawsuit, a Jinchang residents had emphysema, prosecution Jinchuan, said Jinchuan's pollution causes their illness. Handling of the case: dismissed the prosecution. As individuals, it is a very specific thing, but involves the whole Jinchang City, if the case is successful, the whole Jinchang person can sue. Civil Procedure provides for environmental pollution can suit, but in the actual operation phase, due to various reasons, more difficult.

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

R13

Harmonious society, the policy put forward is very good. From the beginning of Confucius, harmony question has been put, "and for you." "And" as the nation's traditional culture.

Country's desire to build a harmonious society is good, the key is how to build, through what system construction. In fact harmonious society is orderly society, there are rules.

China is the biggest lack of rules. Rules, but the implementation problems, chaos rules.

Should establish the rule of law, free from the influence of political parties, changes do not follow the will of the ruling party, "up and down to meet the rules."

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

R13

Contribute. Well harmonious society can be beneficial to the city's long-term development. Necessary and Sufficient Conditions

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

R13

There is a close association. Only sustainable development well, the residents have to live and work environment, material aspects of a guarantee in order to harmony. Harmonious society in turn can promote sustainable development.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

R13

In the implementation, but the extent of the problem, depending on the degree of the government's awareness and attention.

Local leaders of the concept is very important, if his ideas in place, the work may be done better.

Residents do not care about harmonious society, grievances, inequality of opportunity.

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

R13

-

Investigator

Economy situation?

R13

Resource-based cities is to rely on resources to develop the economy. Other tertiary industry is relatively weak. In economic development, leadership grandiose talk about GDP growth, but GDP and happiness index and a different

direction. Many large-scale construction projects, individuals acquire wealth, residents do not get rich, but also for the majority of government debt pocket. The country has such a problem.

Investigator

Environmental condition?

R13

Not optimistic. Anthropogenic + natural factors. Jinchuan company engaged in smelting, governance in recent years, for a moment, slightly better, but the problem is still great. Invested heavily in environmental protection, but residents decreased absorption of poison gas, the enterprise is not affected. Absorb the cost of the health of residents.

Investigator

Urban construction?

R13

Better than before. But the overall lack of long-term planning, arguably planning should expect several decades of development. Too much duplication, lack of overall urban planning longevity.

Investigator

The standard of living of the urban residents?

R13

Middle level, a large gap between rich and poor.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

R13

Less competitive (if satisfied with the status quo), no other advantage

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

R13

Poor environment (natural + habit), concept lag behind

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

R13

Bad

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

R13

No big problem during the day, at night the sewage in the morning before 9am particularly serious.

Investigator

Are you affected by the air pollution? In what way? Probes: -Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

R13

Certainly been. Stand pollution, can only move. Previous summer evening with the windows open, choking can not sleep.

Investigator

How do you evaluate the sources of air pollution?

R13

Jinchuan is the source. Sacrifice the health of residents, reduce production costs and increase profits. Therefore, the cost of the health of residents is not operating costs, companies do not need to burden.

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

R13

Very important. One is the resource city, once resource depletion, and no other business, the city can not develop. Not once do a good job in terms of resource utilization, but also consider renewable resources and other industries.

Otherwise, the next few decades, there is no pillar industries, the city how to do?

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

R13

Not resist, a single resource

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

R13

Transformation is necessary.

Resources by recycling. In addition, according Jinchang environment, transport, agriculture and other resources, the development of other industries and the development of processing industry.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

R13

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

R13

Is influential, increasing production costs. Enterprises do not attach importance to this one, are the expense of the environment at the expense of the life and health of the residents in exchange for economic development.

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

R13

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

R13

Yes.

1. Real estate development
2. Investment enterprise enclosure, on the land to benefit. Many companies make money by selling enclosure

Investigator

How do you see the great increase of number of housing every year?

R13

1. Rigid demand: the native population, rural urbanization, young people get married to buy a house
2. Real estate investment

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

R13

Do not match. Extensive expansion. The geographical area of the city in the expansion, but the infrastructure is not synchronized.

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

R13

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

R13

-

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

R13

Leading role. Government as the main. Residents have no right to speak.

Deal with environmental pollution, the greatest pollution is pollution Jinchuan as government departments, arguably should intensify law enforcement efforts. However, law enforcement and economic development of contradictions. Jinchuan company be punished, resulting in increased production costs, reduced profits, Jinchang City tax revenues. Therefore, law enforcement on the compromised.

The deterioration of the natural environment, only in the surrounding grass and trees. But Jinchang already short of water, too many tree species, it is difficult to survive.

Public hearings of public education: the government is not doing too good, generally not to do it. While residents are not concerned. On the one hand government departments are unwilling to allow the residents masters, on the other hand,

people do not look at the problem objectively, do not want to call the shots. For thousands of years, people accustomed to being ruled, let the people call the shots, they are reluctant.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

R13

Direct effect is not large, an indirect effect is relatively large.

Economic development mainly by Jinchuan. The city's comprehensive development, plays an indirect role.

Corporate environmental responsibility is not strong.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

R13

1. The feeling of happiness is most important

2. Fairness, justice, freedom, harmony

"Universal values"

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

R13

Environmental protection is more important in the long term, sustainable development.

Investigator

How do you see the importance of natural environment and environmental protection?

R13

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

R13

Awareness is not strong, but it has improved. Mainly residents enough attention. But with the "civilized city" construction, began to pay attention to small ways.

Investigator

What environmentally friendly activities do you practice?

R13

Littering in public places is not free, save water and electricity

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

R13

Social environmental restrictions

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

R13

Depends on the leadership as, how to guide

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

R13

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

R13

Do not want to. According to the current environment, you do not want. "Earth Spirit" in order to "odds", poetry and painting have to have a beautiful environment

1. Natural Environment

2. The social environment, the development of poor conditions

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

R13

1. Environmental pollution
2. To establish a fair and equitable social environment, the key factors affecting social development

Q.12. Is there anything else you would like to add?

Investigator

What are they?

R13

None

Interview with R14

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

R14

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

R14

More than 10 years

Investigator

Do you have some ideas why this term was proposed?

R14

Based on environmental pollution, excessive energy consumption.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

R14

Affected. But based on personal interests, to contribute to sustainable development, more difficult. For example we all know that the car will pollute the environment, but out of life considerations, the general will not give up a car.

Especially the younger generation, to become a trend.

Concept is very good, but in practice it is difficult, but "good intentions." World Environment Day every year just to engage in, energy-saving lights, etc., it is only the concept of advocacy, individual action, and more difficult to continue. But in reality or in the opposite direction, moving backwards.

I feel very concerned that in recent years, frequent episodes of extreme weather, no rules to follow. Jinchang summer temperatures, the previous maximum of 32 degrees, in recent years has reached 38 degrees. Fundamentally, the problem is still not resolved, it is difficult to change.

Home, even the basic garbage collection, etc., can not do a lot of things are thrown away as garbage. How effective recovery, although the person wants, but the channel is not smooth. You know that this approach is wrong, but the government did not provide the means! eg. garbage, agricultural pollution, recycling of electronic products.

Root of the problem: Income + channel + quality

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

R14

Original intention is good, but the implementation has many side effects.

As the Court's staff at work, the court should be unreasonable place. Now in order to engage in harmony, and civil legal grounds do not talk about it. Because court litigation, a lose one win, sometimes dissatisfied party, and sometimes the two sides are not satisfied, we are unable to achieve satisfaction. Now in order to harmony, regardless of treatment outcome, to petition for the work of the judges based assessment, rather than "fact-based law as the yardstick."

What is the function of establishing the court, the court is not mediation, to the court must decide the case in accordance with the rule of law, rather than blindly talk about harmony. We now have a political standards, compliance with the requirements of building a harmonious society. This is a very vague thing, a lot of things in harmony as an excuse to finally find that more and more people petitioners, many people get benefits from the court to the government to go downtown, the government in order to appease the parties, give the parties a lot of interest. Resulting in a benefit-oriented, the parties are going to appeal the court's decision and not respected, eventually leading to the loss of functions of the Court, the legal system of destruction, social chaos.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

R14

-

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

R14

Sustainable development can promote the harmonious society. If survival is threatened, harmonious talk about what comes. Sustainable development possible, the higher the degree of social harmony.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

R14

From the window of the Court's work experience, desire is good, the concept is also true, but the court should not only emphasize harmony. Can emphasize other aspects, from the government's perspective, the government and the people in harmony, harmony between people, harmony between the various sectors.

Q.3. How do you evaluate the status of Jinchang in western cities of China**Investigator**

Do you feel that Jinchang is a prosperous city? Why?

R14

Overall, yes

Investigator

Economy situation?

R14

In the west region has a pivotal position. Since the 1980s, the central importance of the development of Jinchang (emphasis Jinchuan nickel resources, but also determines the position of Jinchuan). Jinchuan company is also bigger and stronger in recent years, efficiency is not very good, because spreading itself too thinly. Heard the news that some big stall, in the management of some problems. International market also has some factors. From the top down, right Jinchuan company attaches great importance, from initial processing to deep processing, to the Dali do.

Investigator

Environmental condition?

R14

Pollution has improved, but still not good. Jinchuan's flue gas treatment a lot better than before. Eg. 80 years, the rule of a school to eight students were smoke get fainted. Pollution control efforts in recent years, relatively large, but the pollution is still exceeded. Although the environmental protection department published data are standard, but residents of real feeling is that pollution is very serious. Spring sandstorms many problems throughout the North.

Investigator

Urban construction?

R14

Vary greatly. Former residence surrounded by industrial areas. From the former mayor began their houses greening, street reconstruction correction, residential industrial zone separation, the new residential district planning quite well. Now the city has a city feel like it. Improvement may not be very good, because the foundation is weak, but the overall effect is good.

Investigator

The standard of living of the urban residents?

R14

Good. Higher than the province overall, thanks to Jinchuan Group.

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

R14

Life stress is small, life is more relaxed, laid-back, low prices, low cost of living, fewer cars fewer people no high buildings, not depressed, wide roads

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

R14

Industrial pollution, dust storms

Q.4. How do you evaluate the urban air quality in Jinchang**Investigator**

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

R14

-

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

R14

-

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

R14

-

Investigator

How do you evaluate the sources of air pollution?

R14

-

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

R14

Jinchang Jinchuan addition to a major company, eight Metallurgical is relatively large construction companies. Other companies are relatively small, the leading role in the economy is not. Once no Jinchuan, the Jinchang City development prospects are not optimistic. Although the government has been in the investment, but they are not out of the Jinchuan all companies by Lai Jinchuan company.

For example Wuwei food, wine, very good development, the development was fairly wide, while Jinchang relatively simple.

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

R14

Difficult.

Currently Jinchuan ore mining company in the limit. Ore shipped from the outside is costly.

Now the company Jinchuan company leaders to solve the employment problem children, the company is very pleased to older workers, but companies need so many people, is worth considering. Now corporate officers increases, the efficiency of enterprises caused great burden.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

R14

Transformation of a good idea, it can be a good transition. Hoping to transformation, not subject to Jinchuan company around.

Transformation is a very large very complex problem, we must find economic experts, by examining the research, find a transformation plan. It is generally difficult to see.

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

R14

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Investigator

Do you think whether pollutants control would constrain the economic growth?

R14

-

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

R14

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Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

R14

Will not continue to expand. Because the economy is not active and can not be attractive.

Investigator

How do you see the great increase of number of housing every year?

R14

1. Investment, hedging, hoarding house. We are more optimistic about the price, at least can play a role in preservation, the extra money is used to buy real estate. Many idle house.
2. The result of urbanization. Migrant workers around the city, after a good job in the city settled.

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

R14

Generally match

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

R14

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

R14

In Jinchang, the impact is small.

1. Land is ample
2. Instead of urban expansion on the surrounding environment improvement

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

R14

Land finance, state and local financial macro-control conflicts, government land is the main source of finance.

Expert advice should be invited to study the feasibility of investment, avoid investing mistakes, redundant construction.

As government officials, local development should not be free to manipulate government power constraints are not in place. Not restrict the authority of government, it will lead to blind investment, free operation.

Environmental pollution, strict examination and approval, do not blindly economic development. Strengthen supervision.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

R14

The development of the economy plays a role in promoting urban development fund.

Environmental and social responsibility also. Public welfare. Including addressing the employment problems of Jinchang City residents.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

R14

1. Economic, food, clothing, shelter, basic protection
2. The degree of human civilization. Harmony, less strife.

Now the easy road, the blind development of the economy. Regulations around the GDP index, did not consider the local situation. Only the economy, can not have happiness, people have a variety of needs. Education, health care, etc., are very important.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

R14

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Investigator

How do you see the importance of natural environment and environmental protection?

R14

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Investigator

How do you evaluate local residents' awareness of environmental protection?

R14

Not good enough. In general, just taking out the trash, spitting phenomenon still exists.

Investigator

What environmentally friendly activities do you practice?

R14

Garbage collection, water saving

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

R14

Habits, habit is second nature. Cultivate good habits from a young age, habits difficult to correct. Sometimes the habit of not as an adult pupils. We all do that, I felt with reasonable. Related with the overall quality of the citizens.

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

R14

Difficult to be sustainable. Jinchang many chemical companies, pollution is very serious. Now the government is focused on economic output, the degree of attention to the environment, do not want so many people desire. Hexibao, chemical industrial park.

Full Chinese point of view, sustainable development is not optimistic. Current interest is highly valued because of the country from top to bottom no attention to the environment. And sustainable development is a matter of all citizens, not just a government thing, not to promote it, engage in several activities can be resolved. Specific measures to the government from the start, people from a personal philosophy and life start, enterprises corresponding national policy, be possible. Now all the people have not paid enough attention.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

R14

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Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

R14

Do not want to. I hope he lives to the environment a good place to go, no big city, not too well-developed economy, just a comfortable environment, a stable job for life. Wish more difficult to achieve, because China's household registration policy has been weakened, or at work, territoriality is very important. To the field of employment more difficult, and therefore more contradictory.

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

R14

None

Q.12. Is there anything else you would like to add?

Investigator

What are they?

R14

None

Interview with R15

Q.1. How do you understand sustainable development

Investigator

Have you ever heard of the term of sustainable development?

R15

Yes

Investigator

If yes, can you remember when did you notice this term for the first time?

R15

About 10 years

Investigator

Do you have some ideas why this term was proposed?

R15

With the whole of human life, resource development and utilization of a relationship. Looks more and more prosperous economic development, but the growing sense of crisis resources, is a new way of thinking of human development,

sustainable use of the earth's resources in China. After the human into the industrial society, large-scale production, is a waste of resources, is caused by human greed. In fact, not material wealth, the more happiness will be. Therefore, the proposal for sustainable development, the concept is very good. Earth can not continue to be obtained from one soil to raise one person, and then continue to feed so many people can not. Our cities are faced with such a problem.

Investigator

Did this idea of sustainable development affect your life, perception or behaviours? How?

R15

-

Q.2. What is your opinion on harmonious society in China

Investigator

How do you evaluate the policy of constructing harmonious society?

R15

The proposed policy is very good, strategic, visionary. Mention what, explain what is missing in our society. Although our current economic situation than 20,30 years ago a great leap forward, life has changed a lot. But many people in life, resulting in anxiety, there is no clear understanding of the future. Discordant elements in society has increased.

Harmonious society proposed is very timely. Before developing constantly sum up the problems, the elimination of all factors of disharmony. Although we tried very hard, but there is no good solution. At least the community manager should have such thoughts, improve people's quality of life, or even a good urban development, the residents of happiness is not very strong. Harmony, happiness will increase. Human development is also necessary.

Harmony between man and nature, man is life on earth, not only to people-oriented, and to a life oriented. Human too strong, is very sad. Should be mutual respect between man and nature, man is part of the food chain.

Investigator

Is there any contribution of harmonious society for urban long-term development? If yes, how?

R15

-

Investigator

Do you think that sustainable development and harmonious society are linked? What do they have in common?

R15

Are associated. Only sustainable development, and the social order and harmony. If you do not have development, human survival is threatened, it is impossible harmony. Therefore, sustainable development is a foundation of harmony. Only human beings to establish the concept of harmony, in order to contribute to sustainable development.

Investigator

How do you evaluate the implementation of this policy in Jinchang? Could you give some detailed examples? How this policy changed your life or other people's life as far as you know?

R15

-

Q.3. How do you evaluate the status of Jinchang in western cities of China

Investigator

Do you feel that Jinchang is a prosperous city? Why?

R15

Overall, in the western city of Jinchang position is not very high, and do not want to target high. Cities and others, have a clear understanding of their own. Well, do not think that economic development, status is high. Now take the resources for the development of Jinchang City. Even medium-sized cities will need development, it is positioned as a small city on it. If 400,000 people can Jinchang live happily on it. Jinchang City in particular, sustainable development, human harmony with the environment. Not just the economy, large-scale development is the destruction of the city. I hope Jinchang controlled development and controlled manner.

Investigator

Economy situation?

R15

Economic conditions, in the Hexi Corridor of view, you can. Get the national ratio of GDP even the Jiangsu and Zhejiang provinces are lower than the township.

Investigator

Environmental condition?

R15

Environmental condition is not very suitable for human habitation. But one soil to raise one person.

Investigator

Urban construction?

R15

Urban construction, planning well, a start there is no scientific way of thinking. Previous administration raised living area northward to correct errors of the past. Of social resources and wealth is a great waste, duplication.

Investigator

The standard of living of the urban residents?

R15

Just OK

Investigator

What are the advantages living in Jinchang compared with large cities in east China?

R15

-

Investigator

What are the disadvantages? Possible probes: Life pressure, living cost, housing, traffic.

R15

-

Q.4. How do you evaluate the urban air quality in Jinchang

Investigator

the air quality in Jinchang, and how it changes? Probes: compared with cities nearby and the situation in last decades

R15

Poor, human survival and life is hazardous. Especially industrial waste recycling exhaust and re-developed technology is not enough.

Investigator

Is there any change of air quality in different time? Probes: daytime and evening, working and rest time, or others.

R15

-

Investigator

Are you affected by the air pollution? In what way? Probes:-Do you have any physical discomfort or mental persecution caused by air pollution? What are the symptoms?

R15

-

Investigator

How do you evaluate the sources of air pollution?

R15

-

Q.5. How about the economic development of Jinchang

Investigator

How much the industry is important for the economic development of Jinchang now and in the future?

R15

-

Investigator

Do you think the economic development in Jinchang can confront the risk of resources depletion and shortage in the future?

R15

Yes, it can.

Mineral resources will be exhausted one day, but as long as there is water, there is oxygen, there is land, humans can survive.

However, the shortage of water resources in particular. Water, seriously restricting the Jinchang City's economic development. Depends on the global climate change, glaciers, snow line.

Investigator

Is the transformation necessary? Could you suggest some solutions for the transformation economic development?

R15

-

Investigator

Did you notice the environmental costs of economic development? Probes :- air pollution

R15

-

Investigator

Do you think whether pollutants control would constrain the economic growth?

R15

-

Investigator

Have you considered that incorporating environmental costs in everyday life might benefit both industrial enterprises and local residents?

R15

-

Q.6. How do you see the rapid urban sprawl of Jinchang

Investigator

Do you think Jinchang is becoming larger and larger at a very high speed? How do you see this phenomenon? Probes:- Advantages and disadvantages

R15

Yes.

It is a disorderly expansion, is a waste of public resources. Urban-rural integration, to encourage rural people to live together, to enjoy the city's public welfare, rural people can enjoy. However, the urban area of the city is not too large, operation and maintenance costs are particularly high, weakening the limited public finances. Therefore moderate expansion is reasonable.

Investigator

How do you see the great increase of number of housing every year?

R15

-

Investigator

Do you think the infrastructure construction catching up with the speed of urban sprawl?

R15

-

Investigator

Is there idle or abandoned construction land around your living spaces or workplaces?

R15

-

Investigator

Do you think the rapid urban sprawl will threaten the environment or improve the regional environment?

R15

-

Q.7. What is the role of government in urban development

Investigator

How has the government responded to environmental degradation and reliance on heavy industry? Probes :- Environmental protection, Pollutants control, Legal system, Economic development support and regulation, Land use and urban planning, Infrastructure construction, Guiding sustainable urban development, Public hearings, Social education.

R15

Strong government plays a leading role.

Jinchang local economic development, we must increase efforts to nurture local industry, to get rid of dependence on Jinchuan.

Government departments should follow public opinion, people need to improve, we should take responsibility for improving environmental pollution, we must strive to implement contemporary people, or the contemporary ruin, the next generation need to continue their efforts.

Q.8. What is the role of industrial enterprises in urban development

Investigator

How has the major enterprise responded to environmental degradation and overreliance on heavy industry? Probes:- Industrial production, Pollutants control and reduction, Resource use efficiency, Waste disposal and recycling, Social and environmental responsibility.

R15

Pivotal role. Jinchuan Group colds, Jinchang City will cough.

Q.9. How urban residents response to the urban environment

Investigator

How to measure the social progress in your opinion?

R15

Progress is always right, but not necessary in all aspects of the pursuit of high. Sometimes progress even cause fear and anxiety. Progress should be a relative, rather than absolute. Eg. People live forever, the Earth can not accommodate. No aircraft the car, people's happiness would not be badly affected.

Investigator

How do you weigh the importance of economic development and environmental protection? Probes:-Which do you think is more important for the long-term development of Jinchang? Why?

R15

-

Investigator

How do you see the importance of natural environment and environmental protection?

R15

-

Investigator

How do you evaluate local residents' awareness of environmental protection?

R15

-

Investigator

What environmentally friendly activities do you practice?

R15

-

Investigator

For some unpractised behaviour can you explain why you did not do what you had planned to?

R15

-

Q.10. Can you describe a model of sustainable city for Jinchang

Investigator

Is it possible to achieve sustainable development in Jinchang?

R15

If they work hard, it is possible. Limited resources should make full use of. In the agricultural industry a big fuss.

Investigator

Do you think Jinchang will still prosperous as it is now or better 50 years later? Probe:-If not, why?

R15

-

Investigator

Do you wish your descendants to continue to live in Jinchang? Probe:-Why?

R15

-

Q.11. Is there any other urban problems crucial for sustainable development of Jinchang

Investigator

What are they? Why they are important?

R15

1. Way of thinking. Ideas determine. Way of thinking cannot keep up, a lot of ideas cannot be very scientific implemented.

2. Resource constraints. Ownership of resources is limited.

3. The smooth functioning of social management issues.

4. Human resources, human culture. Who is also one of the fundamental elements.

5. State guidelines, the economic environment, including international economic environment.

6. Geographical environment

Anyway, the most important things are people and management system.

Q.12. Is there anything else you would like to add?

Investigator

What are they?

R15

None