

Welfare Regimes in Asia: Convergent or Divergent?

Appendix

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Appendix A

Table A1. Commodification and Decommodification Variables

	Variables	Description	Year	Source
Commodification	Education expenditure	- Government expenditure on education, as % of GDP	2000-2019	World Development Indicators. World Bank
	Literacy rate	- Literacy rate, as % of people ages 15 and above	2000-2019	World Development Indicators. World Bank
	Health expenditure	- Health expenditure, as % of GDP	2000-2019	World Development Indicators. World Bank
	Life expectancy	- Life expectancy at birth	2000-2019	World Development Indicators. World Bank
		- Immunization, measles, as % of children ages 12-23 months		
	Immunization	- Immunization, HepB3, as % of one-year children - Immunization, DPT, as of children ages 12-23 months	2000-2019	World Development Indicators. World Bank
	Gender equality	Gender development index - Ratio of female to male HDI values	2000-2019	Human Development Index. UNDP
Decommodification	Social insurance	Expenditure on social insurance, as % of GDP - Pensions	2002-2015	Social Protection Indicator.

		- Health insurance		Asian Development Bank
		- Other social insurances (unemployment and disability insurance, maternity benefits, benefits from provident funds)		
		Expenditure on social assistance, as % of GDP		
		- Welfare assistance (cash or in-kind transfers)		
	Social assistance	- Child welfare assistance (school feeding programs, child allowances, and child grants)	2002-2015	Social Protection Indicator. Asian Development Bank
		- Assistance to the elderly		
		- Health assistance (tax-funded benefits)		
		- Disability benefits assistance		
	ILO Conventions	- Cumulative number of ILO conventions ratified by a country	2000-2019	Ratification of ILO Conventions. ILO
		Expenditure on labor market program, as % of GDP		
Commodification/Decommodification	Labor market program	- Skills development and training	2002-2015	Social Protection Indicator. Asian Development Bank
		- Public works programs		

* For education expenditure of China, data from the Chinese government are used due to the absence of World Bank data. (gks.mof.gov.cn).

** For education expenditure of South Korea, data from the South Korean government are used due to the absence of World Bank data.

(https://www.index.go.kr/potal/main/EachDtlPageDetail.do?idx_cd=1525).

*** Log transformations for life expectancy and ILO Conventions.

Table A2. Descriptive statistics (2000s)

	N	Mean	Std dev	Min	Median	Max
Education expenditure	20	3.577	1.298	1.679	3.45	5.925
Literacy rate	20	78.361	21.402	31.448	90.191	99
Health expenditure	20	4.56	2.082	2.228	4.093	9.842
Life expectancy	20	69.364	6.469	58.088	68.329	82.012
Immunization measles	20	82.78	16.845	46.3	88.7	98.3
Immunization HepB3	20	77.031	21.85	15.333	84.839	90
Immunization DPT	20	83.975	16.053	49	91.7	98.1
Gender equality	20	0.867	0.137	0.42	0.91	1.012
Social insurance	20	2.497	3.537	0.00002	0.998	15.053
Social assistance	20	0.586	0.602	0	0.484	2.573
ILO Conventions	20	22.05	13.504	0	18	49
Labor market program	20	0.096	0.08	0.00001	0.072	0.228

Table A3. Descriptive statistics (2010s)

	N	Mean	Std dev	Min	Median	Max
Education expenditure	20	3.596	1.174	1.788	3.625	6.164
Literacy rate	20	83.11	18.292	37.234	94.338	99
Health expenditure	20	4.942	2.384	2.357	3.922	10.628
Life expectancy	20	72.833	5.712	63.071	70.937	83.589
Immunization measles	20	89.575	10.979	62.1	94.8	99
Immunization HepB3	20	89.63	11.284	65.6	96.45	99
Immunization DPT	20	90.115	10.72	65.6	96.5	99
Gender equality	20	0.915	0.095	0.634	0.931	1.02
Social insurance	20	3.095	4.336	0.0002	1.886	19.747
Social assistance	20	0.873	0.992	0.008	0.59	4.398
ILO Conventions	20	24.95	13.398	0	22.5	49
Labor market program	20	0.087	0.095	0.001	0.045	0.299

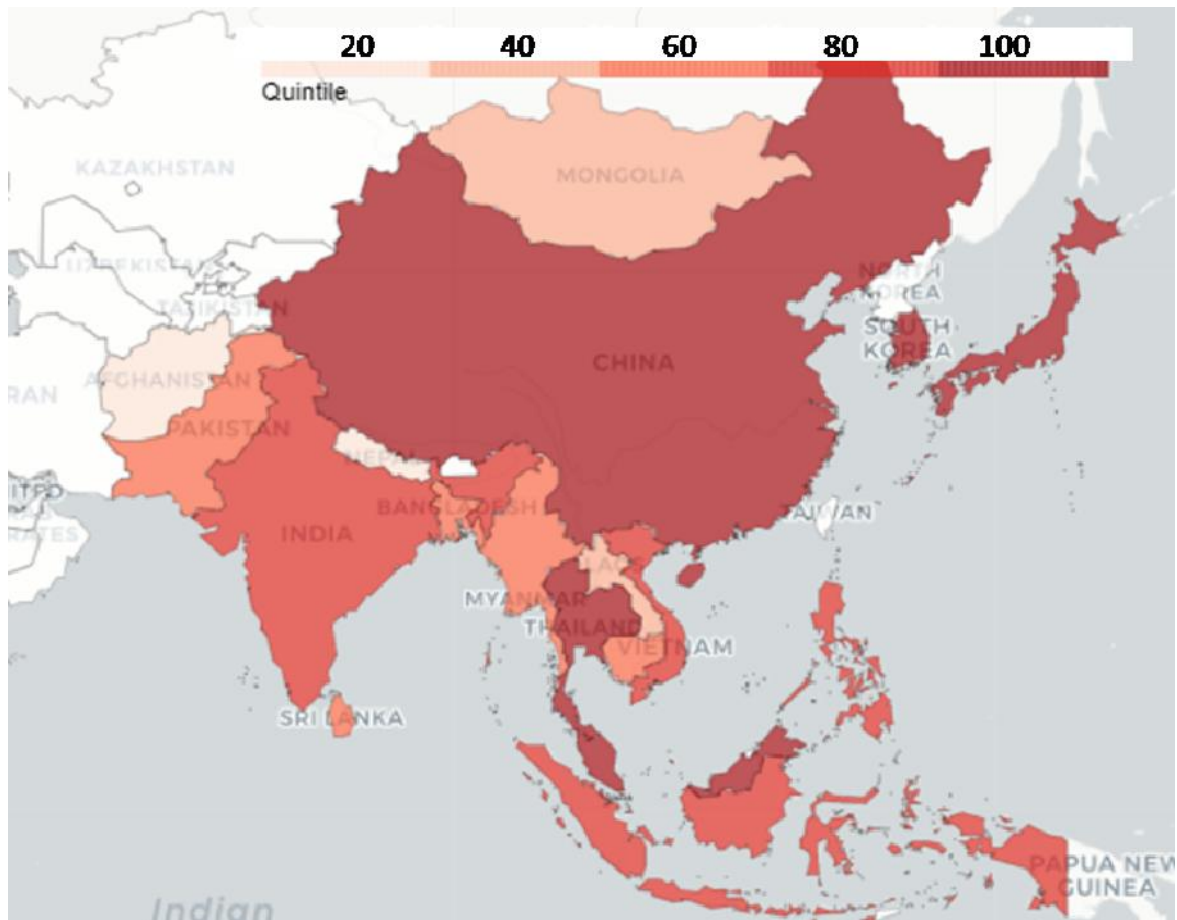


Figure A1. Map of competitive industrial performance index in Asia (2019)

Source: United Nations Industrial Development Organization

(<https://stat.unido.org/database/CIP%202021>)

Appendix B

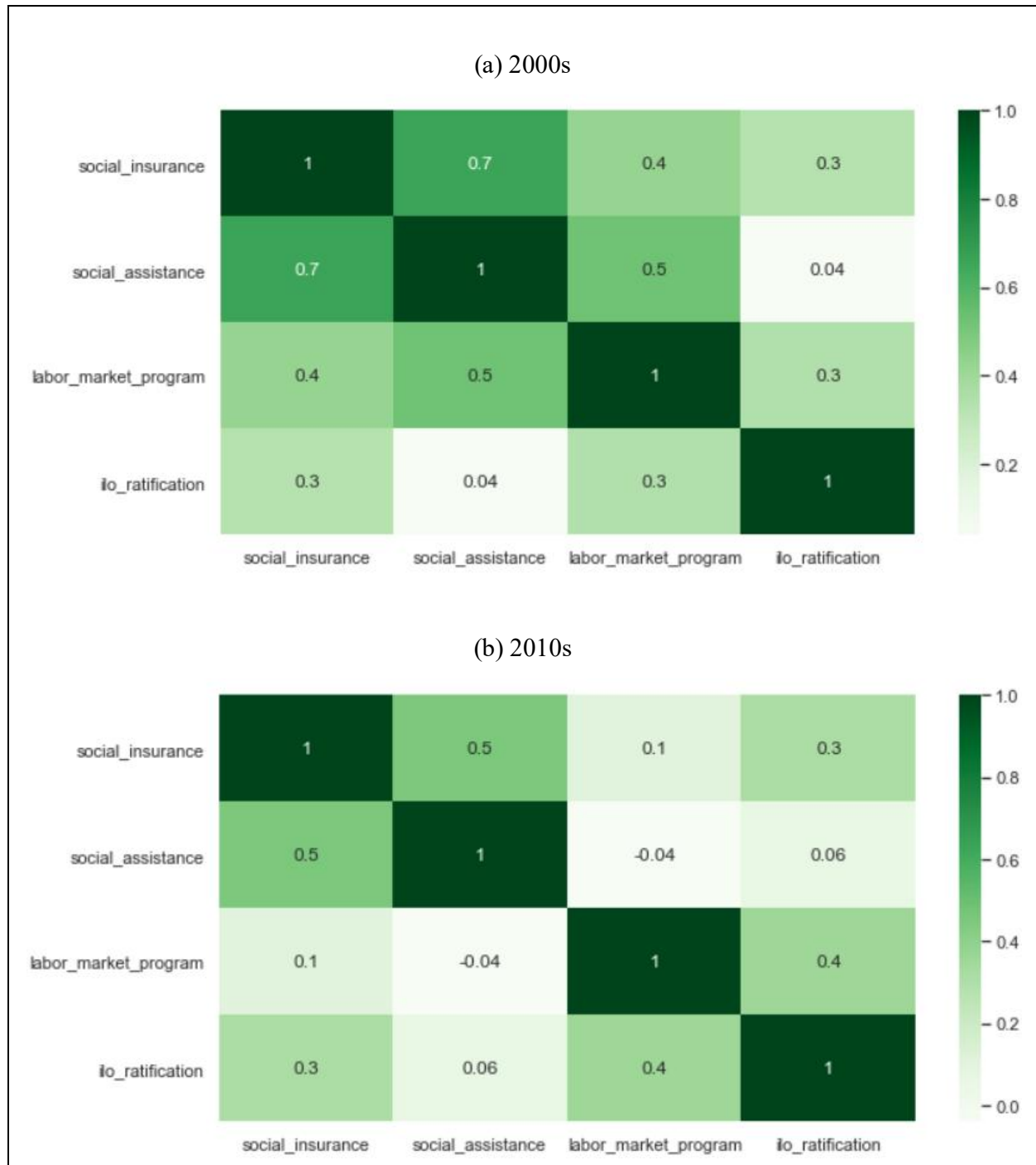


Figure B1. Correlation Heat map of Decommodification variables

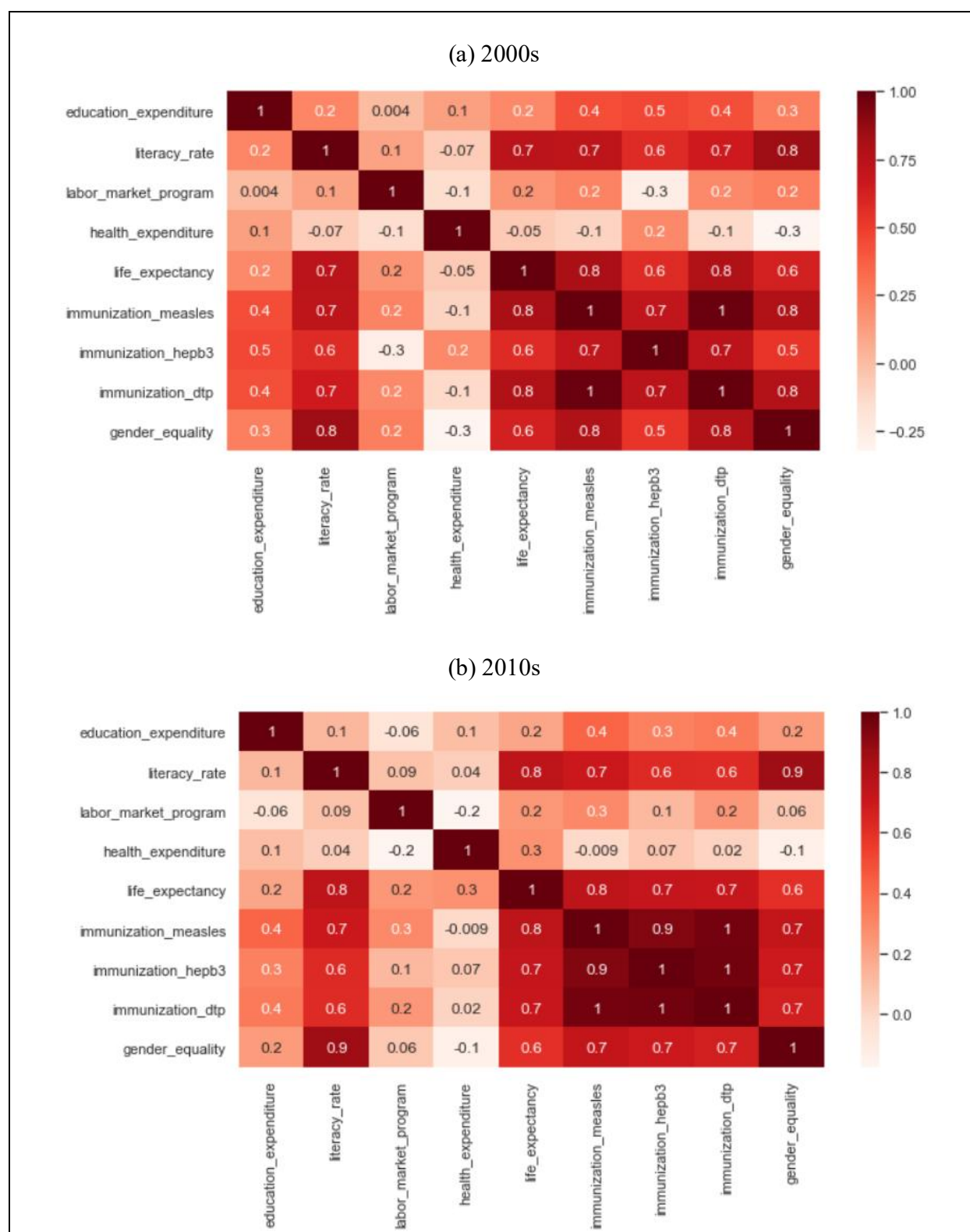


Figure B2. Correlation Heat map of Commodification variables

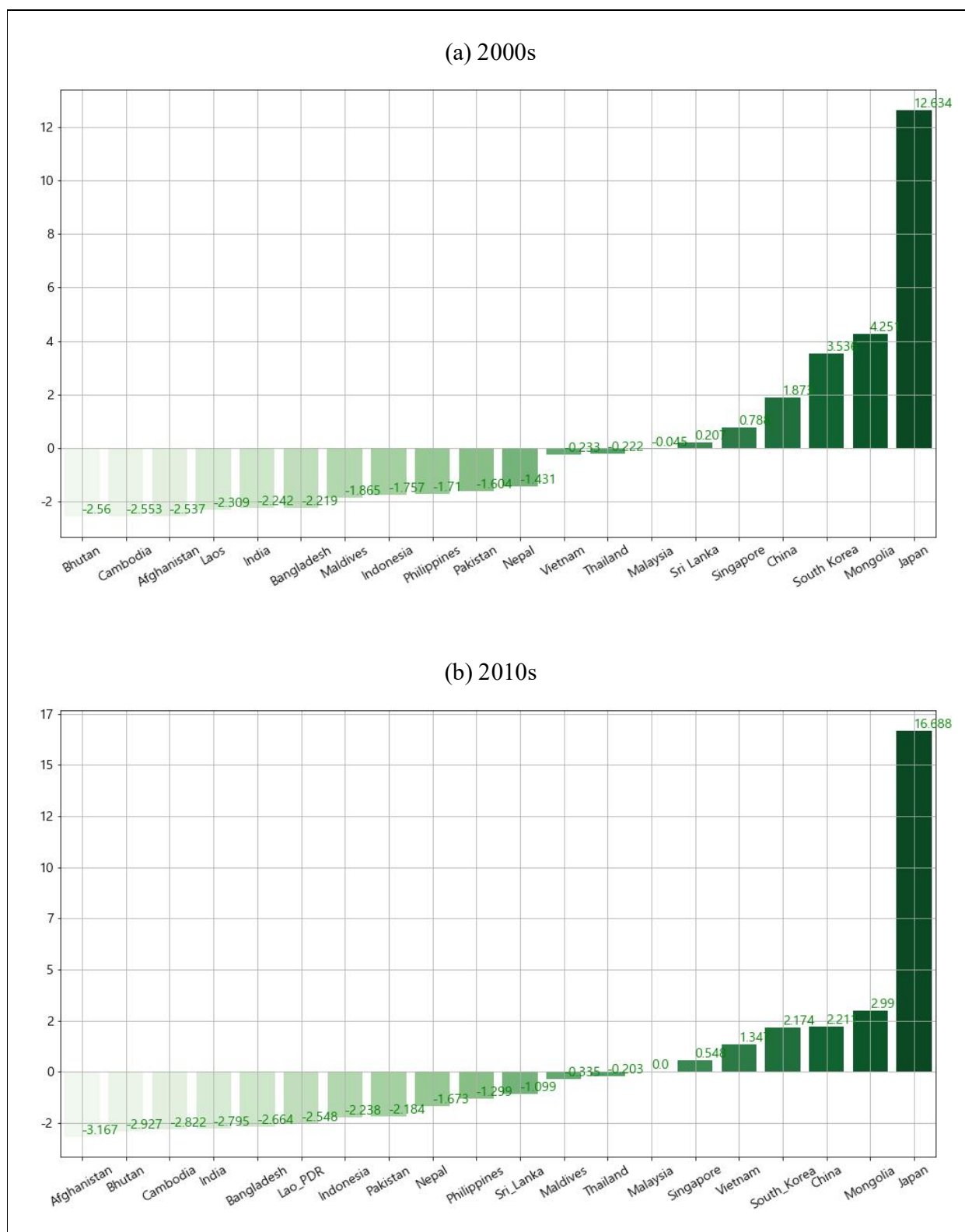


Figure B3. Decommodification based on PCA

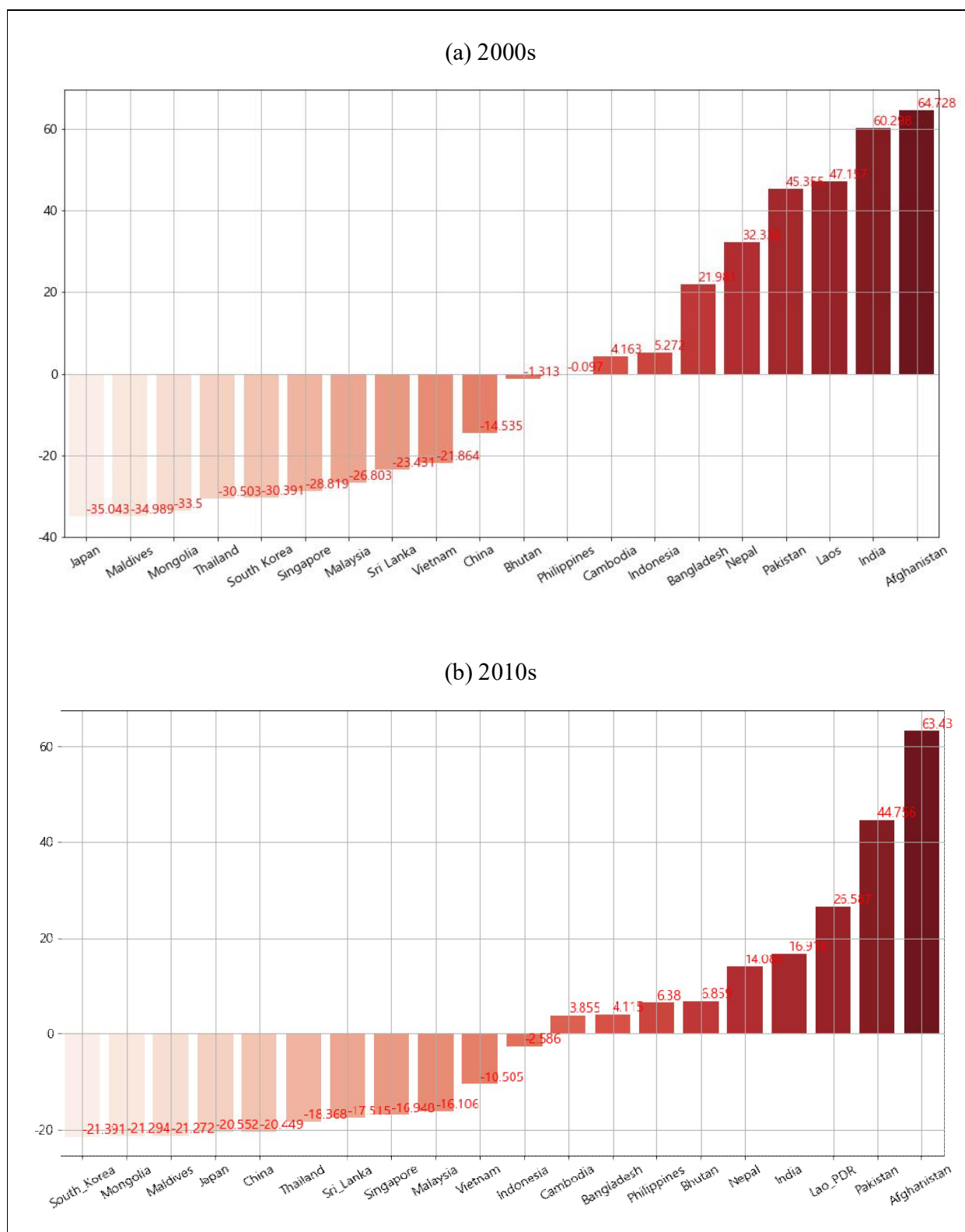
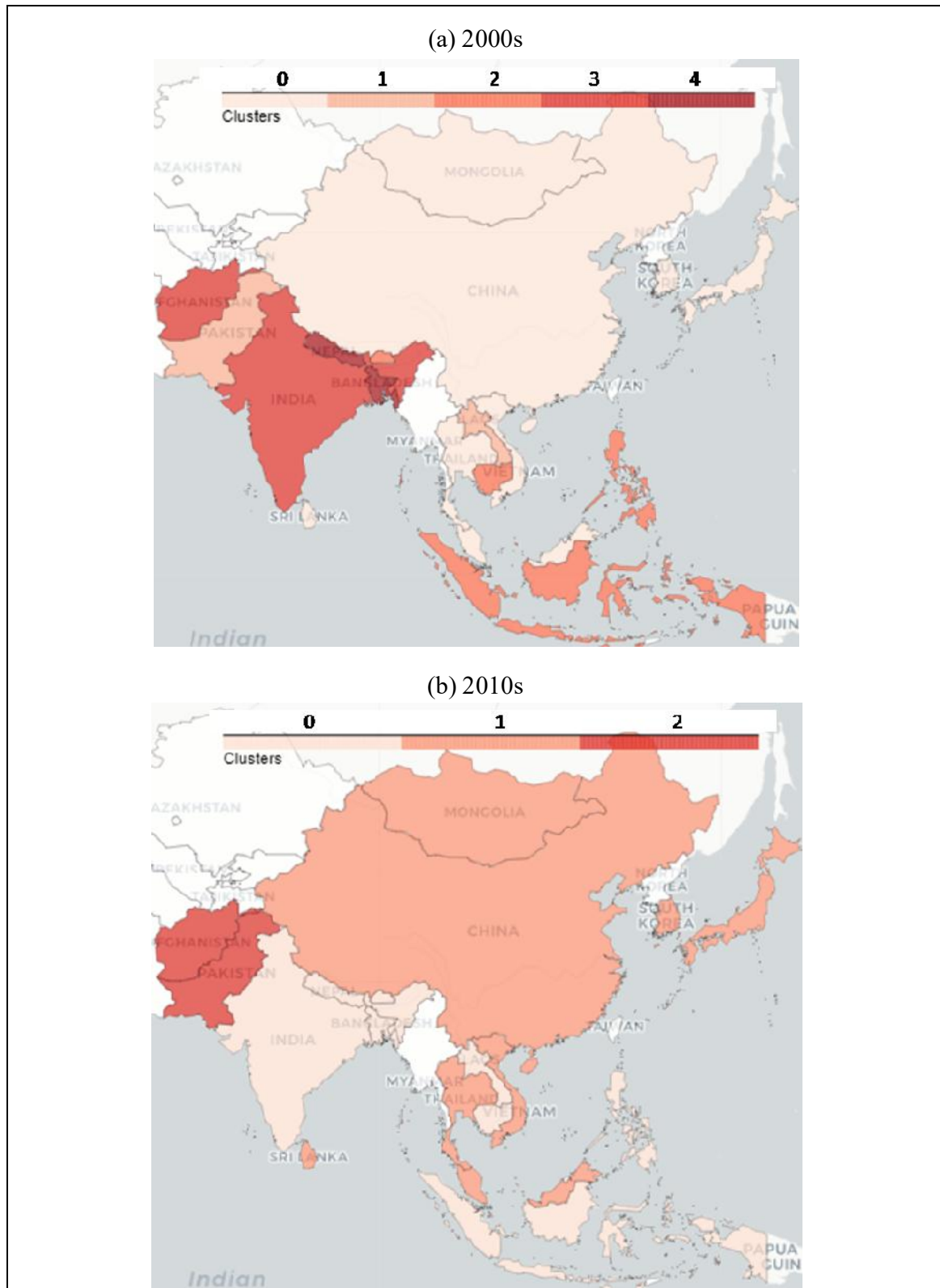


Figure B4. Commodification based on PCA



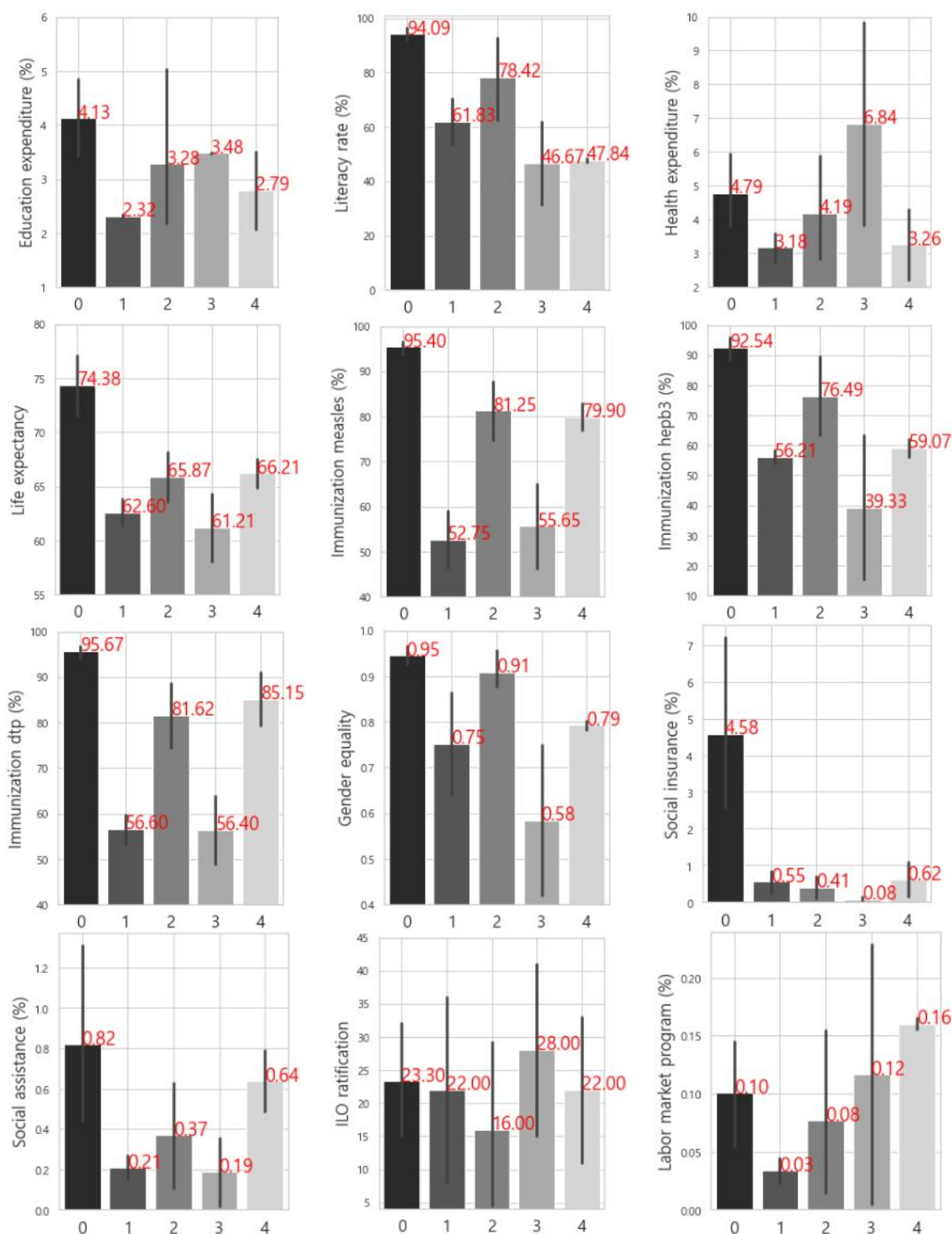


Figure B6. Average values of variables by cluster (2000s)

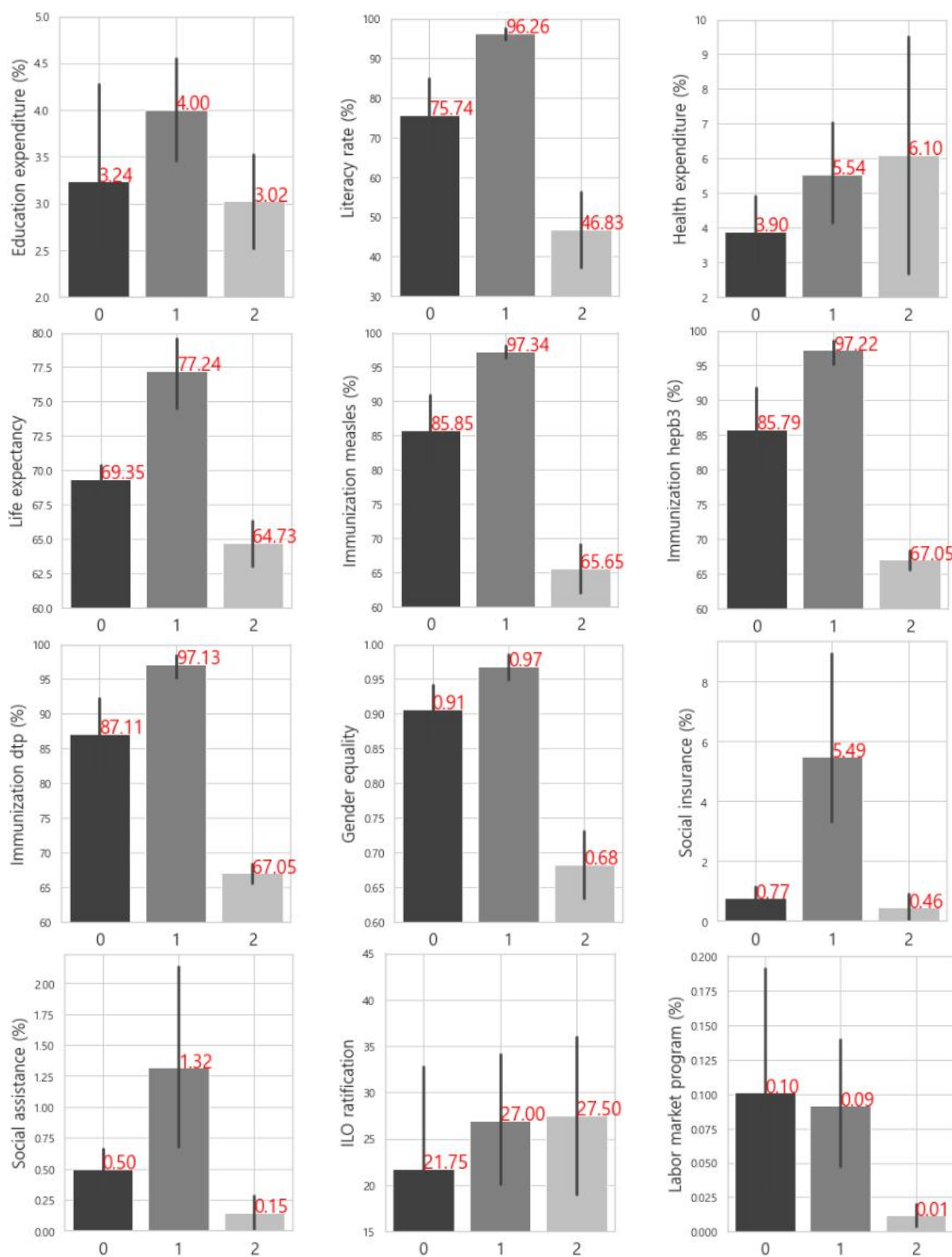


Figure B7. Average values of variables by cluster (2010s)

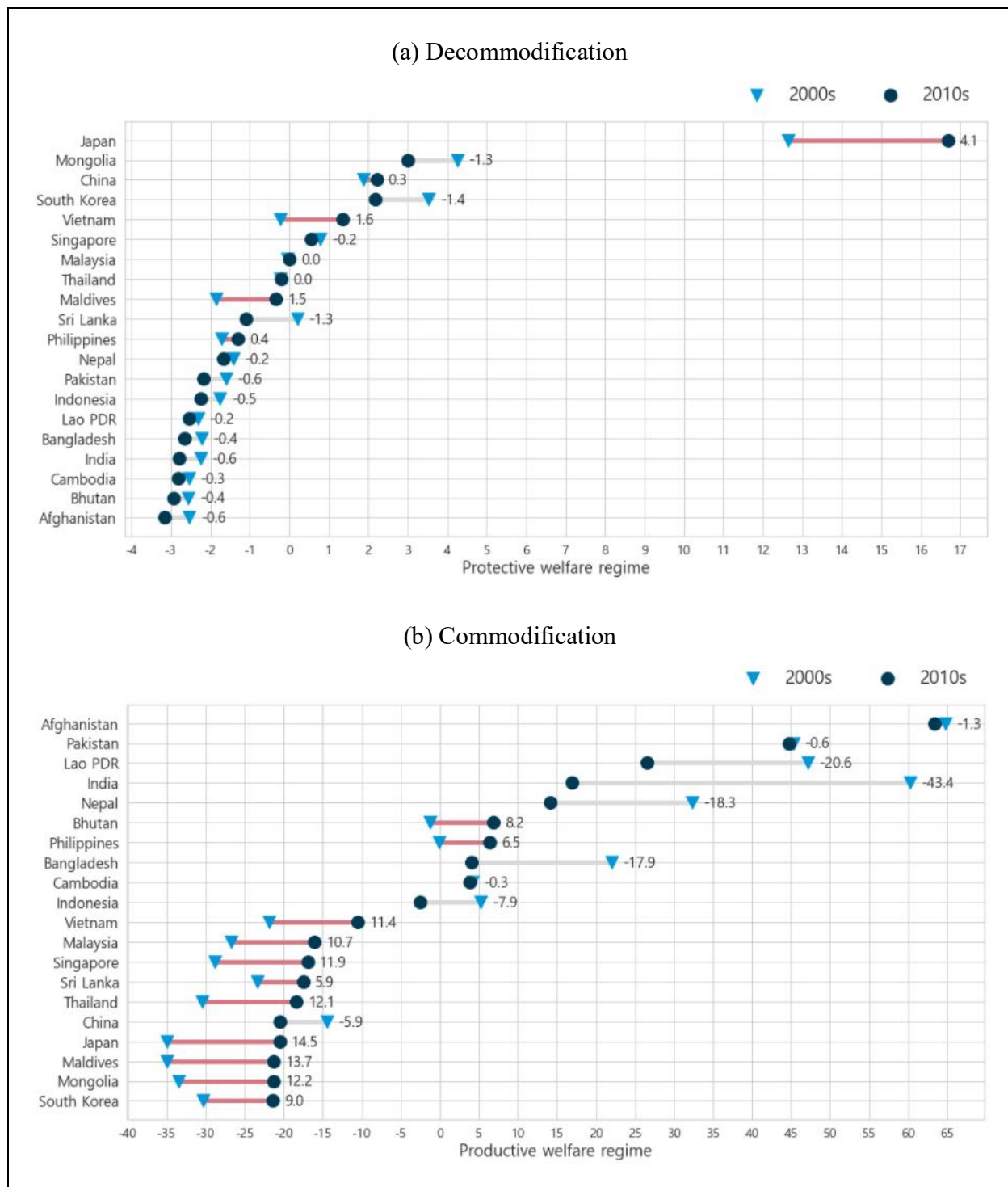
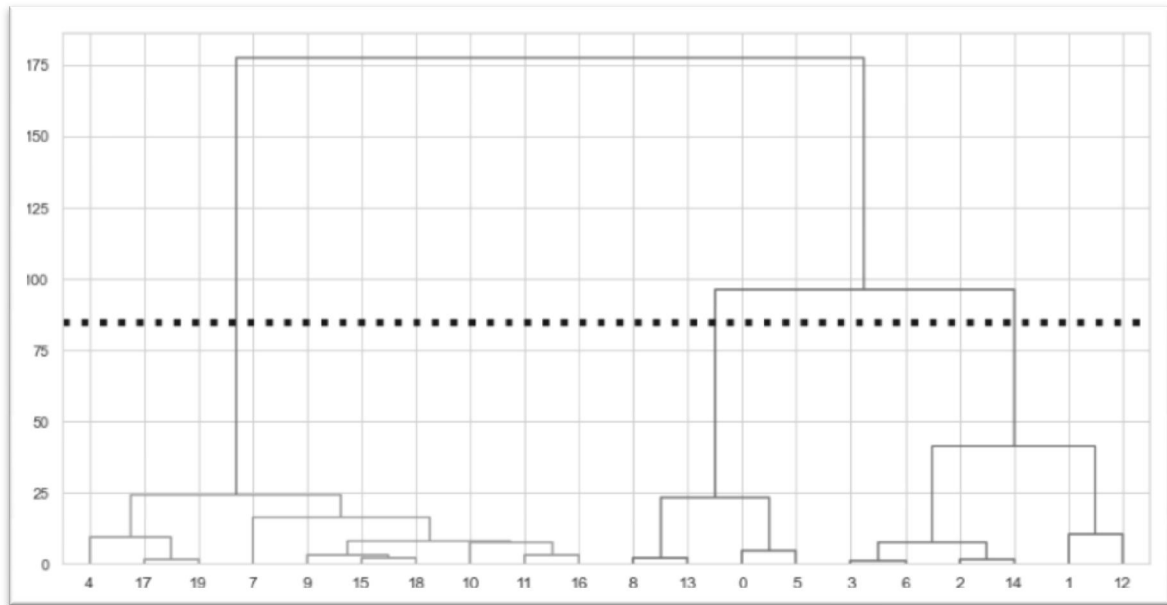


Figure B8. Commodification and Decommodification changes based on PCA

Appendix C

(a) 2000s



(b) 2010s

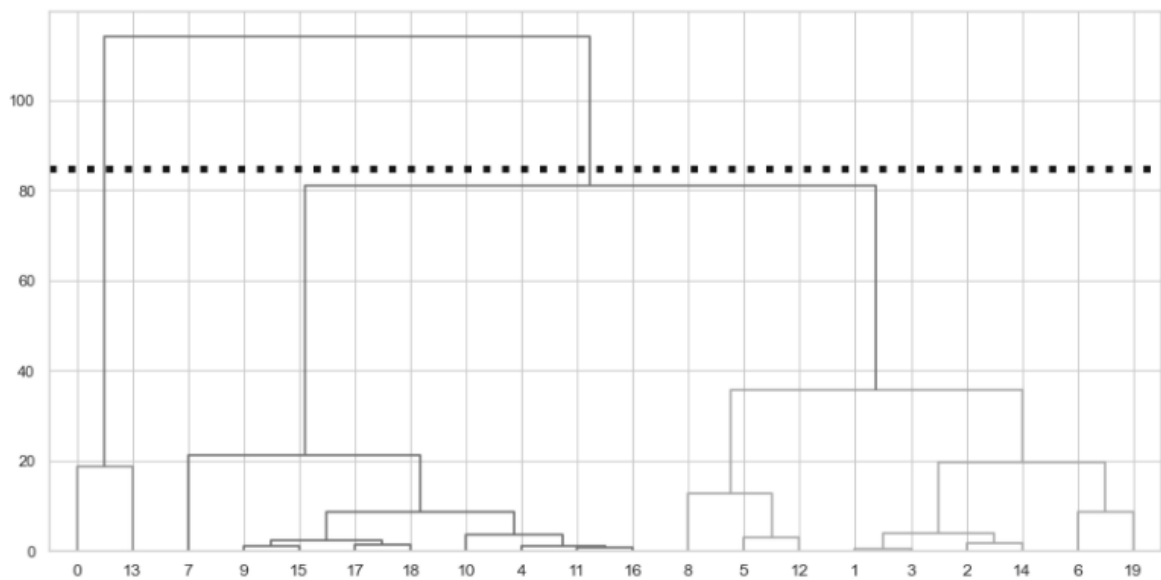


Figure C1. Hierarchical Clustering results

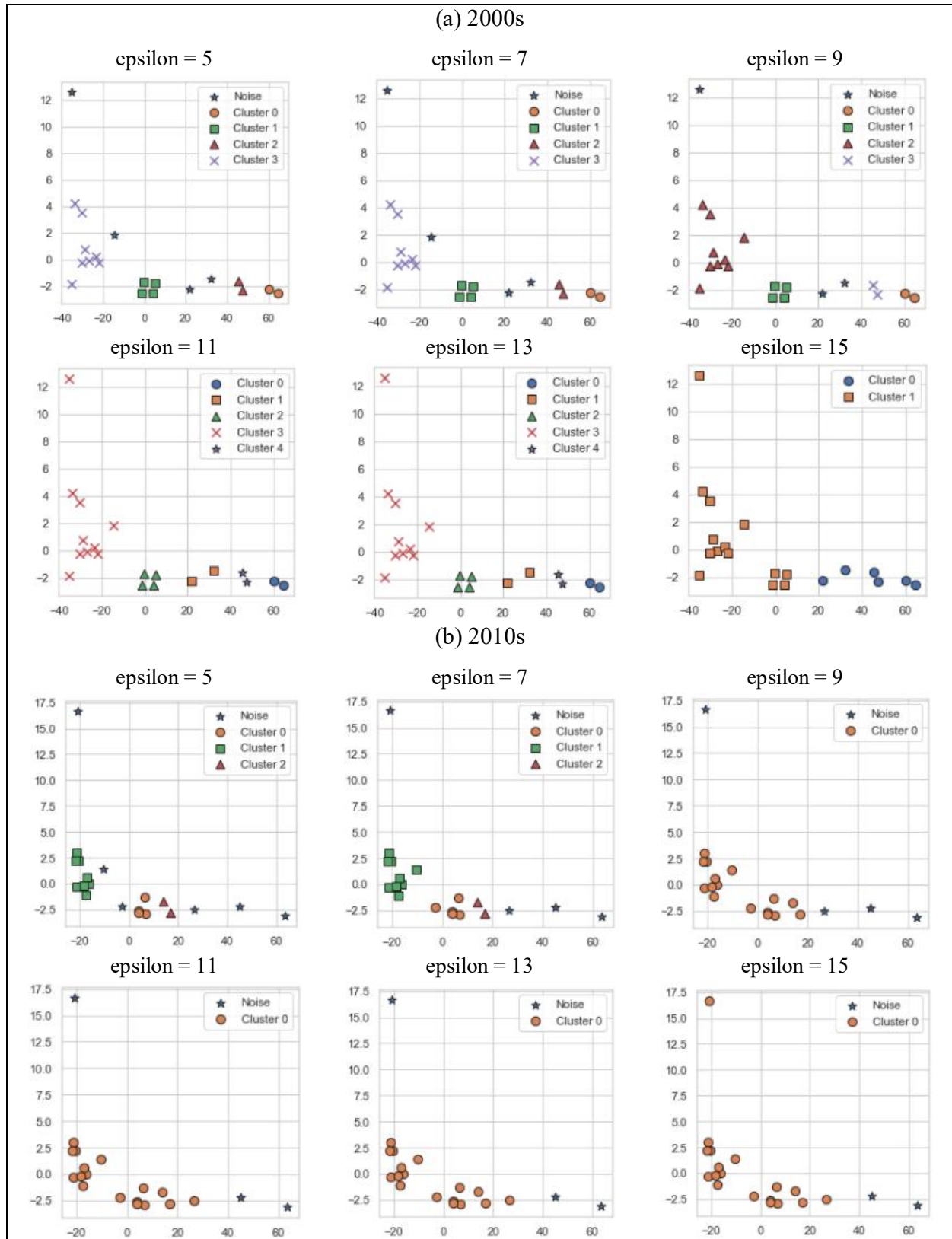


Figure C2. DBSCAN results