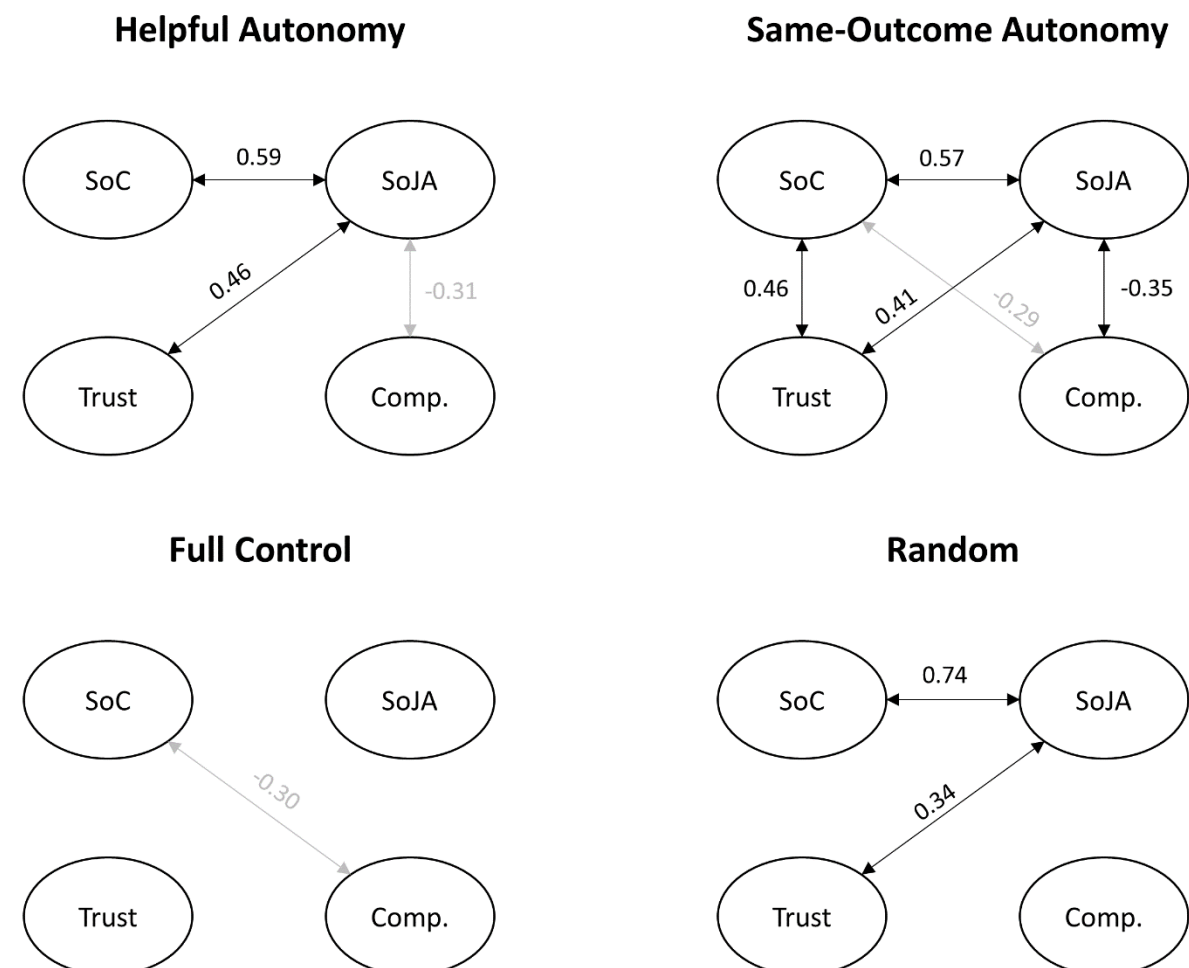


SUPPLEMENTARY MATERIALS S3: CORRELATIONS

This supplementary material reports correlations between all investigated measures. All correlations are Spearman's rho, in order to account for deviations from normality of distribution of some of the measures. Significant and marginally significant correlations are marked in green to increase readability.

PART 1. Correlations between measures for each robot type:

EXPERIMENT 1



HELPFUL AUTONOMY		SoC	SoJA	Trust	Competitive
SoC	rho	—			
	p-value	—			
SoJA	rho	0.586	—		
	p-value	< .001	—		
Trust	rho	0.065	0.458	—	
	p-value	0.689	0.003	—	
Competitive	rho	0.011	-0.307	-0.191	—
	p-value	0.947	0.054	0.238	—

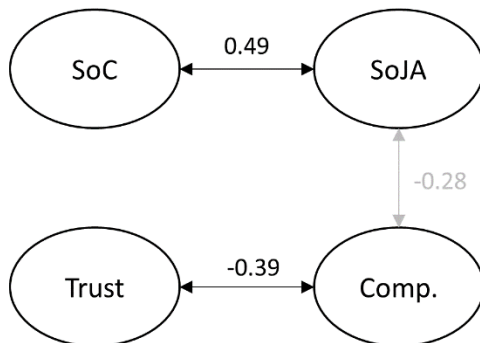
SAME-OUTCOME AUTONOMY		SoC	SoJA	Trust	Competitive
SoC	rho	—			
	p-value	—			
SoJA	rho	0.571	—		
	p-value	< .001	—		
Trust	rho	0.456	0.409	—	
	p-value	0.003	0.009	—	
Competitive	rho	-0.289	-0.349	-0.232	—
	p-value	0.070	0.027	0.149	—

FULL CONTROL		SoC	SoJA	Trust	Competitive
SoC	rho	—			
	p-value	—			
SoJA	rho	0.072	—		
	p-value	0.659	—		
Trust	rho	-0.023	0.166	—	
	p-value	0.887	0.305	—	
Competitive	rho	-0.296	-0.137	-0.239	—
	p-value	0.064	0.398	0.138	—

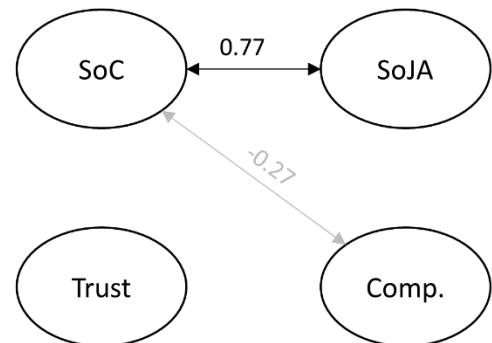
RANDOM		SoC	SoJA	Trust	Competitive
SoC	rho	—			
	p-value	—			
SoJA	rho	0.737	—		
	p-value	< .001	—		
Trust	rho	0.128	0.342	—	
	p-value	0.431	0.031	—	
Competitive	rho	-0.172	0.017	-0.222	—
	p-value	0.287	0.917	0.169	—

EXPERIMENT 2

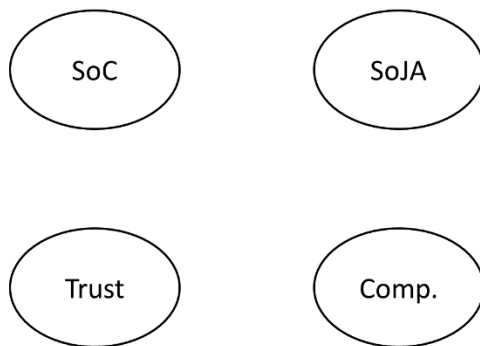
Autonomy to choose Better



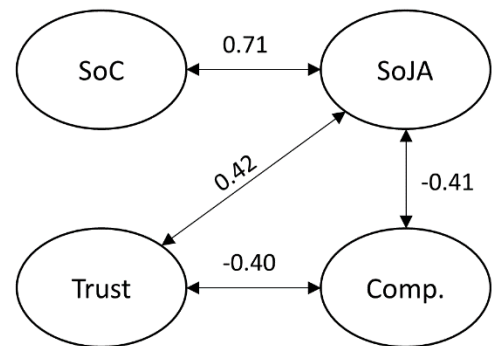
Same-Outcome Autonomy



Full Control



Random



HELPFUL AUTONOMY		SoC	SoJA	Trust	Competitive
SoC	rho	—			
	p-value	—			
SoJA	rho	0.492	—		
	p-value	0.001	—		
Trust	rho	-0.037	0.257	—	
	p-value	0.820	0.110	—	
Competitive	rho	-0.067	-0.282	-0.392	—
	p-value	0.680	0.077	0.012	—

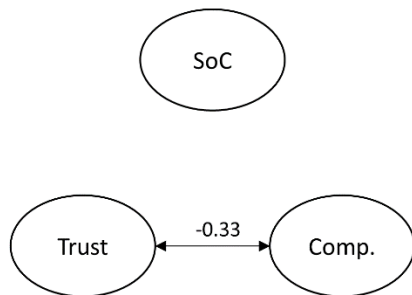
SAME-OUTCOME AUTONOMY		SoC	SoJA	Trust	Competitive
SoC	rho	—			
	p-value	—			
SoJA	rho	0.765	—		
	p-value	< .001	—		
Trust	rho	0.173	0.194	—	
	p-value	0.285	0.229	—	
Competitive	rho	-0.265	-0.181	-0.204	—
	p-value	0.098	0.264	0.207	—

FULL CONTROL		SoC	SoJA	Trust	Competitive
SoC	rho	—			
	p-value	—			
SoJA	rho	0.209	—		
	p-value	0.195	—		
Trust	rho	0.225	0.227	—	
	p-value	0.163	0.159	—	
Competitive	rho	0.195	-0.112	-0.182	—
	p-value	0.229	0.490	0.262	—

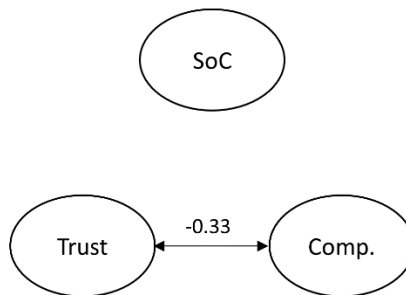
FULL RANDOM		SoC	SoJA	Trust	Competitive
SoC	rho	—			
	p-value	—			
SoJA	rho	0.708	—		
	p-value	< .001	—		
Trust	rho	0.111	0.419	—	
	p-value	0.495	0.007	—	
Competitive	rho	-0.228	-0.410	-0.399	—
	p-value	0.157	0.009	0.011	—

EXPERIMENT 3

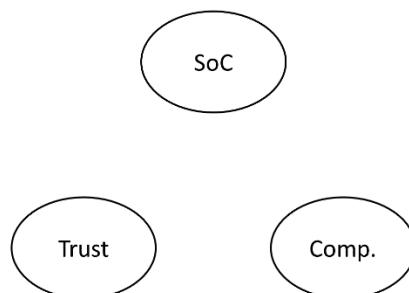
Helpful Autonomy: Extra Gain



Helpful Autonomy: Avoid Loss



Autonomy: Same Outcome



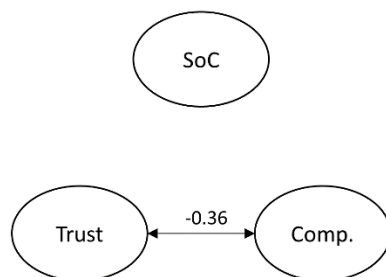
AUTONOMY EXTRA GAIN		SoC	Trust	Competitive
SoC	rho	—		
	p-value	—		
Trust	rho	-0.063	—	
	p-value	0.701	—	
Competitive	rho	0.012	-0.330	—
	p-value	0.944	0.037	—

AUTONOMY AVOID LOSS		SoC	Trust	Competitive
SoC	rho	—		
	p-value	—		
Trust	rho	0.213	—	
	p-value	0.188	—	
Competitive	rho	-0.245	-0.327	—
	p-value	0.128	0.039	—

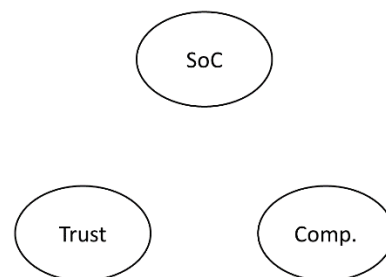
SAME-OUTCOME AUTONOMY		SoC	Trust	Competitive
SoC	rho	—		
	p-value	—		
Trust	rho	0.144	—	
	p-value	0.374	—	
Competitive	rho	-0.196	-0.137	—
	p-value	0.225	0.398	—

EXPERIMENT 4

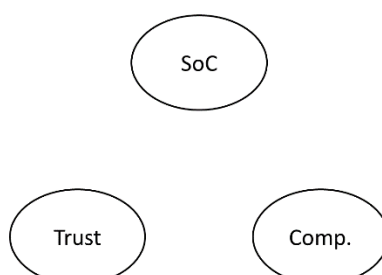
Helpful Autonomy: Extra Gain



Helpful Autonomy: Avoid Loss



Autonomy: Same Outcome



AUTONOMY EXTRA GAIN		SoC	Trust	Competitive
SoC	rho	—		
	p-value	—		
Trust	rho	0.255	—	
	p-value	0.112	—	
Competitive	rho	-0.112	-0.296	—
	p-value	0.491	0.063	—

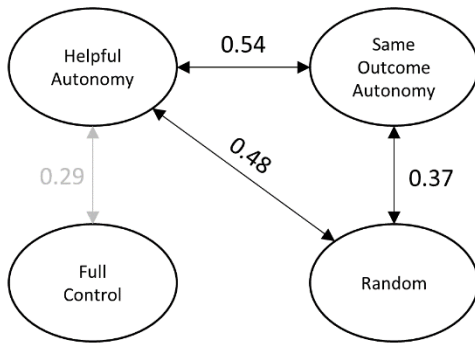
AUTONOMY AVOID LOSS		SoC	Trust	Competitive
SoC	rho	—		
	p-value	—		
Trust	rho	0.196	—	
	p-value	0.225	—	
Competitive	rho	0.040	0.055	—
	p-value	0.804	0.735	—

SAME-OUTCOME AUTONOMY		SoC	Trust	Competitive
SoC	rho	—		
	p-value	—		
Trust	rho	0.360	—	
	p-value	0.022	—	
Competitive	rho	-0.026	-0.170	—
	p-value	0.873	0.293	—

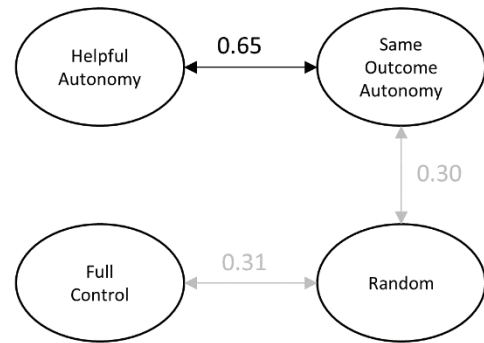
PART 2. Correlations between robot types for each measure

EXPERIMENT 1

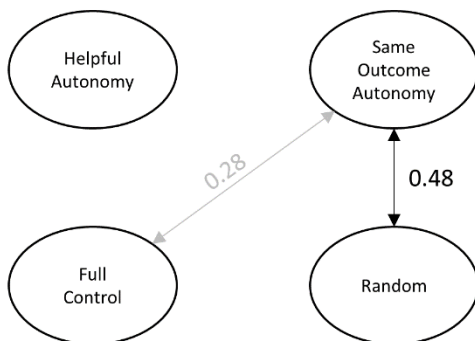
Sense of Control



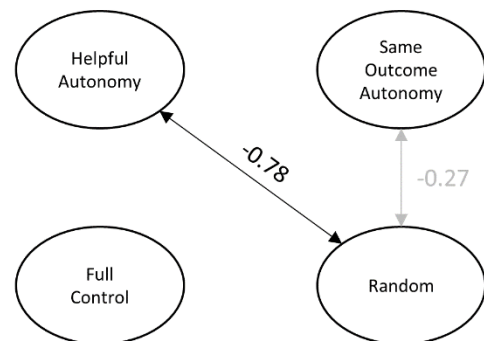
Sense of Joint Agency



Trust



Competitiveness



SENSE OF AGENCY		Autonomy Better	Autonomy Same	Full Control	Random
Helpful Autonomy	rho	—			
	p-value	—			
Same-Outcome Autonomy	rho	0.542	—		
	p-value	< .001	—		
Full Control	rho	0.287	0.219	—	
	p-value	0.072	0.175	—	
Random	rho	0.481	0.374	0.197	—
	p-value	0.002	0.017	0.223	—

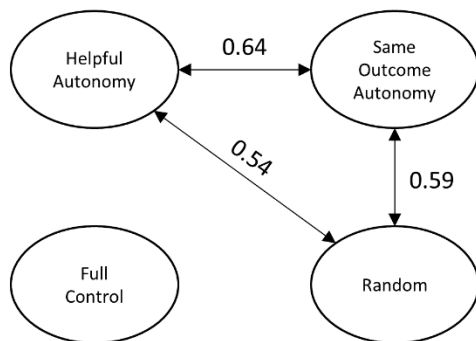
SENSE OF JOINT AGENCY		Autonomy Better	Autonomy Same	Full Control	Random
Helpful Autonomy	rho	—			
	p-value	—			
Same-Outcome Autonomy	rho	0.648	—		
	p-value	< .001	—		
Full Control	rho	0.070	0.246	—	
	p-value	0.669	0.126	—	
Random	rho	0.236	0.300	0.309	—
	p-value	0.142	0.060	0.052	—

TRUST		Autonomy Better	Autonomy Same	Full Control	Random
Helpful Autonomy	rho	—			
	p-value	—			
Same-Outcome Autonomy	rho	0.070	—		
	p-value	0.666	—		
Full Control	rho	-0.142	0.279	—	
	p-value	0.381	0.082	—	
Random	rho	-0.187	0.483	0.117	—
	p-value	0.249	0.002	0.473	—

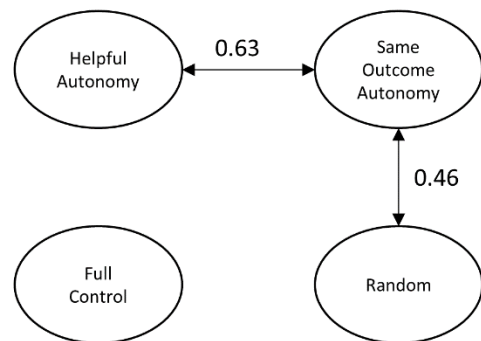
COMPETITIVENESS		Autonomy Better	Autonomy Same	Full Control	Random
Helpful Autonomy	rho	—			
	p-value	—			
Same-Outcome Autonomy	rho	0.096	—		
	p-value	0.554	—		
Full Control	rho	-0.046	-0.055	—	
	p-value	0.777	0.736	—	
Random	rho	-0.778	-0.273	-0.134	—
	p-value	< .001	0.088	0.408	—

EXPERIMENT 2

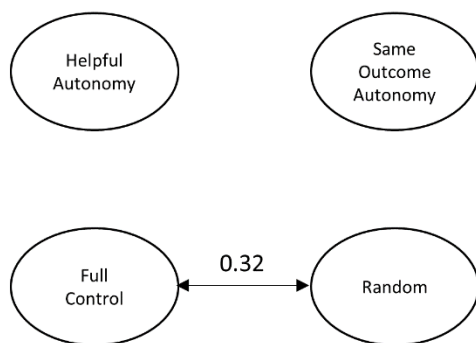
Sense of Control



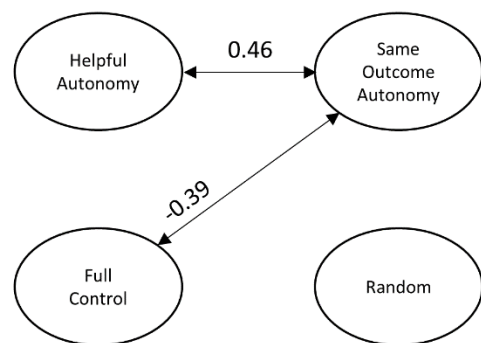
Sense of Joint Agency



Trust



Competitiveness



SENSE OF AGENCY		Autonomy Better	Autonomy Same	Full Control	Random
Helpful Autonomy	rho	—			
	p-value	—			
Same-Outcome Autonomy	rho	0.637	—		
	p-value	< .001	—		
Full Control	rho	-0.054	0.003	—	
	p-value	0.739	0.984	—	
Random	rho	0.541	0.558	-0.195	—
	p-value	< .001	< .001	0.229	—

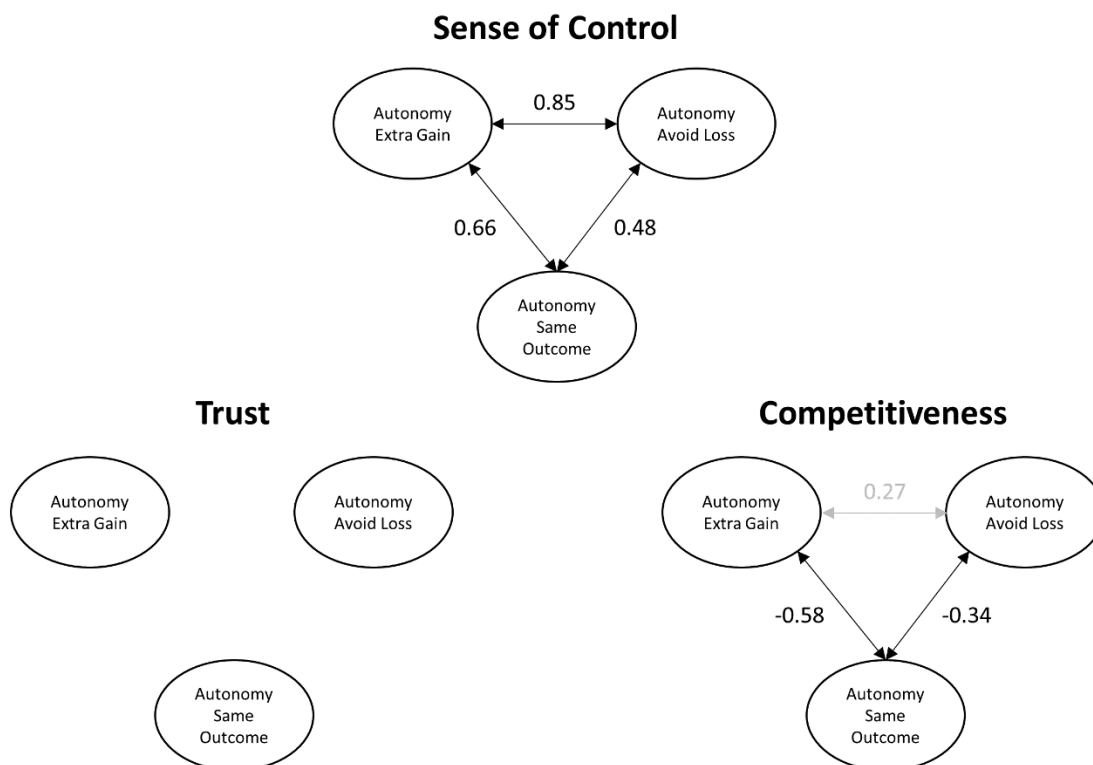
SENSE OF JOINT AGENCY		Autonomy Better	Autonomy Same	Full Control	Random
Helpful Autonomy	rho	—			
	p-value	—			
Same-Outcome Autonomy	rho	0.625	—		
	p-value	< .001	—		
Full Control	rho	-0.103	0.007	—	
	p-value	0.528	0.968	—	
Random	rho	0.278	0.460	0.042	—

SENSE OF JOINT AGENCY		Autonomy Better	Autonomy Same	Full Control	Random
	p-value	0.083	0.003	0.796	—

TRUST		Autonomy Better	Autonomy Same	Full Control	Random
Helpful Autonomy	rho	—			
	p-value	—			
Same-Outcome Autonomy	rho	0.299	—		
	p-value	0.061	—		
Full Control	rho	0.038	0.156	—	
	p-value	0.816	0.335	—	
Random	rho	-0.009	0.173	0.318	—
	p-value	0.958	0.285	0.045	—

COMPETITIVENESS		Autonomy Better	Autonomy Same	Full Control	Random
Helpful Autonomy	rho	—			
	p-value	—			
Same-Outcome Autonomy	rho	0.457	—		
	p-value	0.003	—		
Full Control	rho	-0.131	-0.389	—	
	p-value	0.421	0.013	—	
Random	rho	-0.210	-0.038	-0.019	—
	p-value	0.194	0.814	0.907	—

EXPERIMENT 3

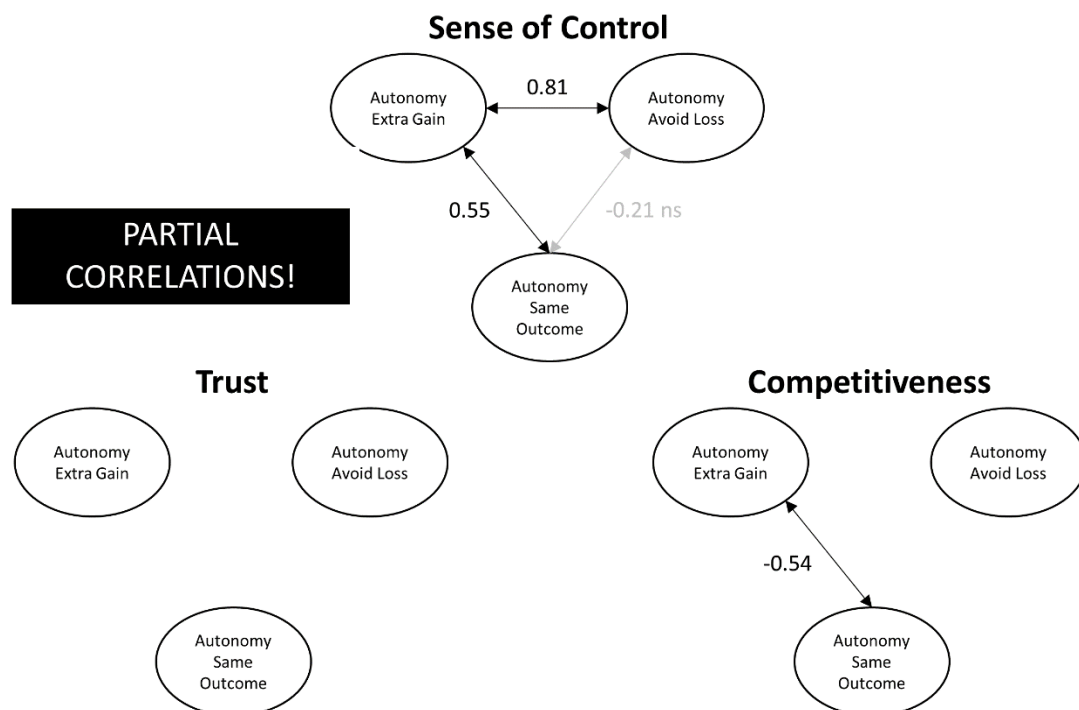


SENSE OF AGENCY		Autonomy Extra Gain	Autonomy Avoid Loss	Autonomy Same
Autonomy Extra Gain	rho	—		
	p-value	—		
Autonomy Avoid Loss	rho	0.850	—	
	p-value	< .001	—	
Same-Outcome Autonomy	rho	0.660	0.479	—
	p-value	< .001	0.002	—

TRUST		Autonomy Extra Gain	Autonomy Avoid Loss	Autonomy Same
Autonomy Extra Gain	rho	—		
	p-value	—		
Autonomy Avoid Loss	rho	0.046	—	
	p-value	0.778	—	
Same-Outcome Autonomy	rho	0.201	0.089	—
	p-value	0.214	0.585	—

COMPETITIVENESS		Autonomy Extra Gain	Autonomy Avoid Loss	Autonomy Same
Autonomy Extra Gain	rho	—		
	p-value	—		
Autonomy Avoid Loss	rho	0.268	—	
	p-value	0.094	—	
Same-Outcome Autonomy	rho	-0.580	-0.335	—
	p-value	< .001	0.035	—

EXPERIMENT 3: Partial Correlations

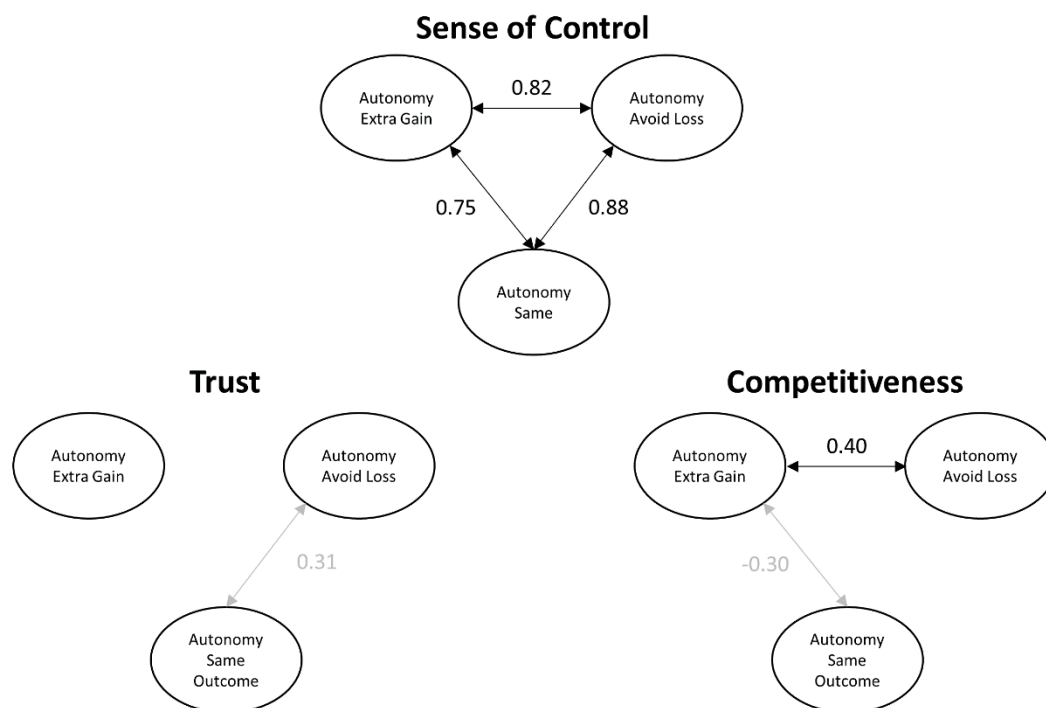


SENSE OF AGENCY		Autonomy Extra Gain	Autonomy Avoid Loss	Autonomy Same
Autonomy Extra Gain	rho	—		
	p-value	—		
Autonomy Avoid Loss	rho	0.809	—	
	p-value	< .001	—	
Same-Outcome Autonomy	rho	0.547	-0.207	—
	p-value	< .001	0.207	—

TRUST		Autonomy Extra Gain	Autonomy Avoid Loss	Autonomy Same
Autonomy Extra Gain	rho	—		
	p-value	—		
Autonomy Avoid Loss	rho	0.029	—	
	p-value	0.861	—	
Same-Outcome Autonomy	rho	0.198	0.082	—
	p-value	0.228	0.622	—

COMPETITIVENESS		Autonomy Extra Gain	Autonomy Avoid Loss	Autonomy Same
Autonomy Extra Gain	rho	—		
	p-value	—		
Autonomy Avoid Loss	rho	0.097	—	
	p-value	0.559	—	
Same-Outcome Autonomy	rho	-0.540	-0.228	—
	p-value	< .001	0.162	—

EXPERIMENT 4

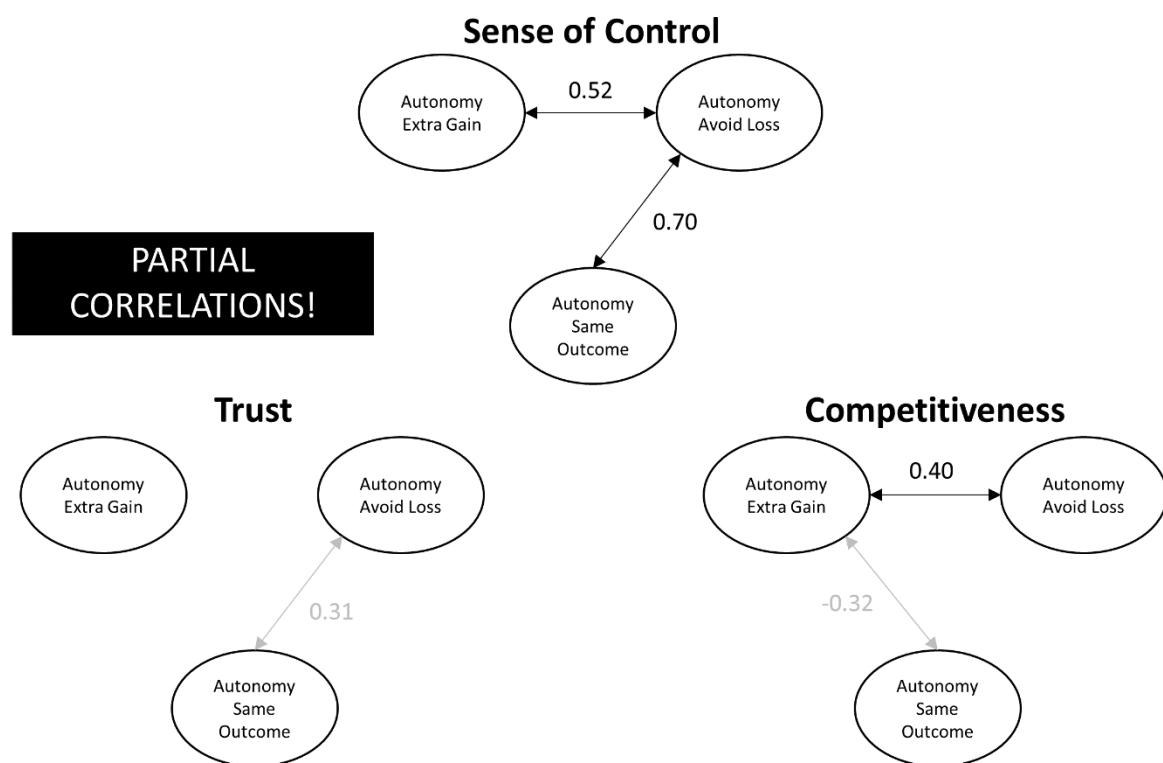


SENSE OF AGENCY		Autonomy Extra Gain	Autonomy Avoid Loss	Autonomy Same
Autonomy Extra Gain	rho	—		
	p-value	—		
Autonomy Avoid Loss	rho	0.822	—	
	p-value	< .001	—	
Same-Outcome Autonomy	rho	0.747	0.881	—
	p-value	< .001	< .001	—

TRUST		Autonomy Extra Gain	Autonomy Avoid Loss	Autonomy Same
Autonomy Extra Gain	rho	—		
	p-value	—		
Autonomy Avoid Loss	rho	-0.012	—	
	p-value	0.942	—	
Same-Outcome Autonomy	rho	0.120	0.305	—
	p-value	0.461	0.056	—

COMPETITIVENESS		Autonomy Extra Gain	Autonomy Avoid Loss	Autonomy Same
Autonomy Extra Gain	rho	—		
	p-value	—		
Autonomy Avoid Loss	rho	0.395	—	
	p-value	0.012	—	
Same-Outcome Autonomy	rho	-0.304	-0.037	—
	p-value	0.057	0.821	—

EXPERIMENT 4: Partial Correlations



SENSE OF AGENCY		Autonomy Extra Gain	Autonomy Avoid Loss	Autonomy Same
Autonomy Extra Gain	rho	—		
	p-value	—		
Autonomy Avoid Loss	rho	0.523	—	
	p-value	< .001	—	
Same-Outcome Autonomy	rho	0.082	0.705	—
	p-value	0.618	< .001	—

TRUST		Autonomy Extra Gain	Autonomy Avoid Loss	Autonomy Same
Autonomy Extra Gain	rho	—		
	p-value	—		
Autonomy Avoid Loss	rho	-0.051	—	
	p-value	0.756	—	
Same-Outcome Autonomy	rho	0.130	0.309	—
	p-value	0.431	0.056	—

COMPETITIVENESS		Autonomy Extra Gain	Autonomy Avoid Loss	Autonomy Same
Autonomy Extra Gain	rho	—		
	p-value	—		
Autonomy Avoid Loss	rho	0.403	—	
	p-value	0.011	—	
Same-Outcome Autonomy	rho	-0.315	0.095	—
	p-value	0.051	0.565	—