

Institutions and marketized mentality - A multilevel analysis of Institutional Anomie Theory assumptions

--- progress report ---

4th LCSR International Conference

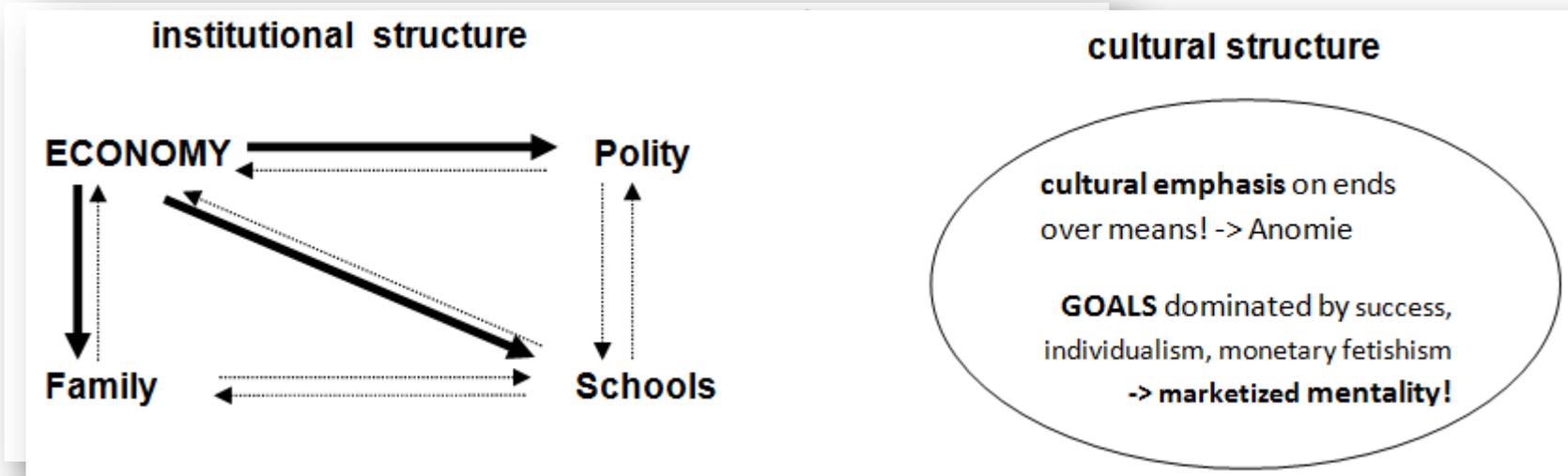
“Cultural and Economic Changes in Cross-National Perspective”

St. Petersburg, November 11th, 2014

Andreas Hövermann and Eva Groß

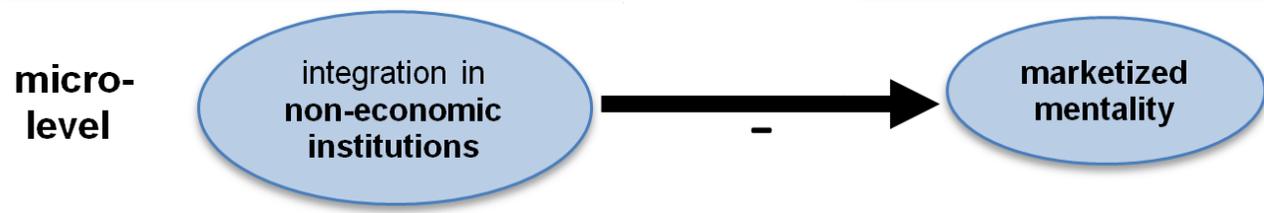
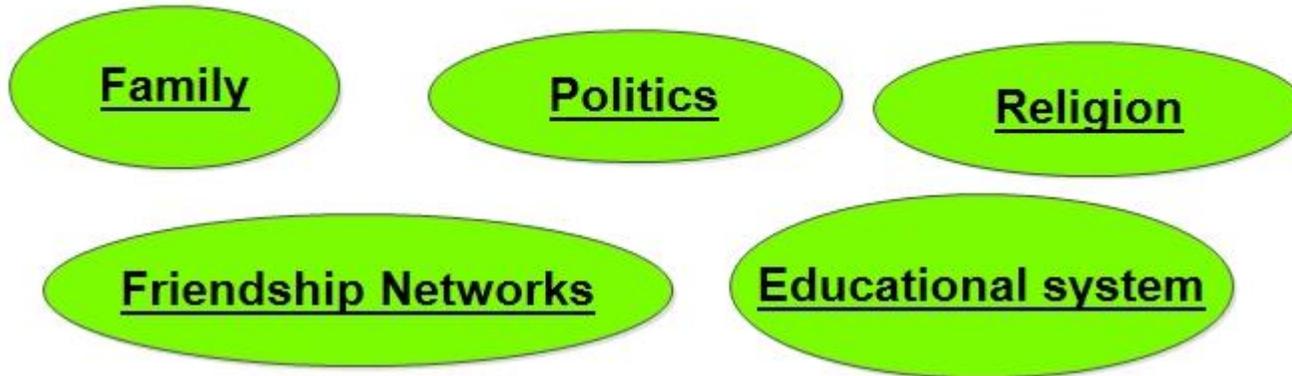
Introduction

- How do **marketization processes** affect **institutions** and **cultures**?



- **Institutions** and **Culture** of societies are **dominated by economy** and results in Anomie and **high crime-rates** (Messner & Rosenfeld, 1997)
- we have shown that economically dominated institutions and cultures can be transferred to the **micro-level** and to explain also **prejudices**
- Testing essential tenets of **Institutional Anomie Theory** by applying it to the **micro-level** and to a **multi-level-design: the multi-level interplay of institutions and culture**

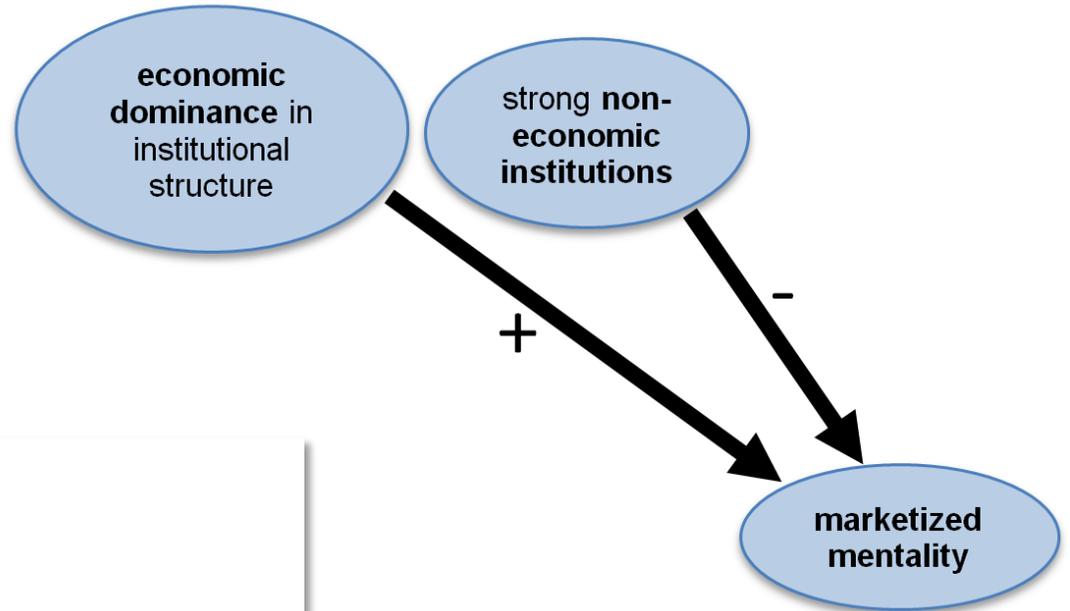
Leading hypotheses



Leading hypotheses

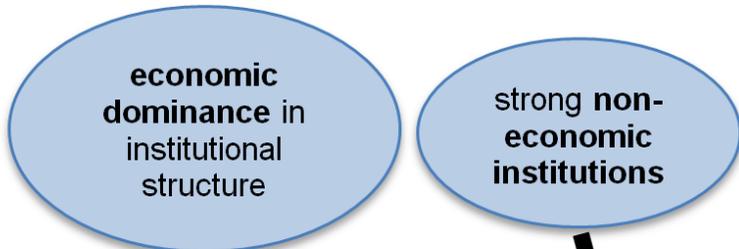
H1

macro-level

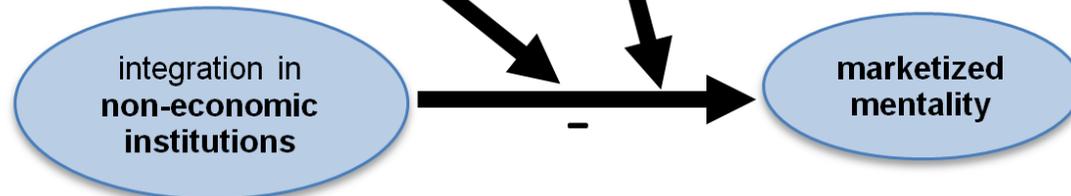


H2

macro-level



micro-level



Data



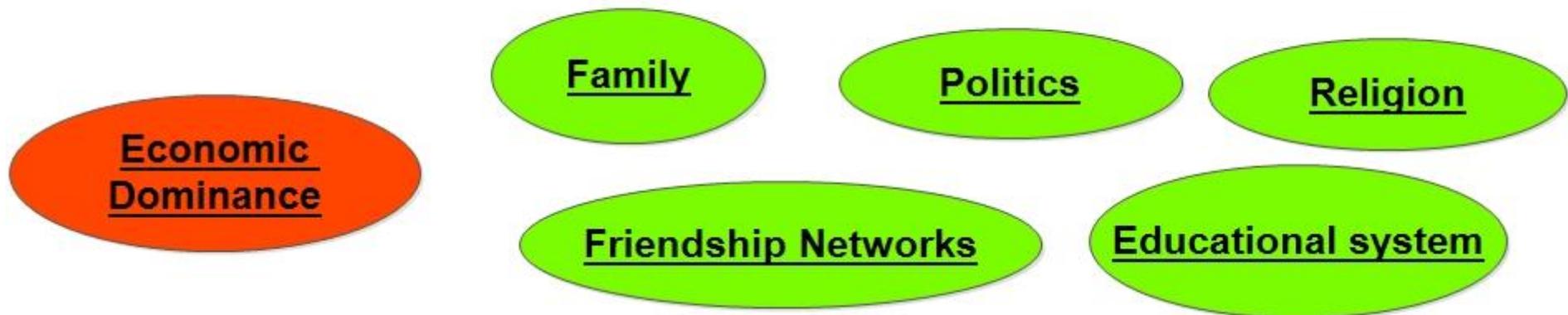
- survey measures the attitudes, beliefs and behavior patterns of individuals in 26 European nations
- using the fifth (2010) round of the data
- n= ca. 50.000

- Further macro-indicator sources:



Operationalisations

macro-indicators



macro-indicator Economic Dominance

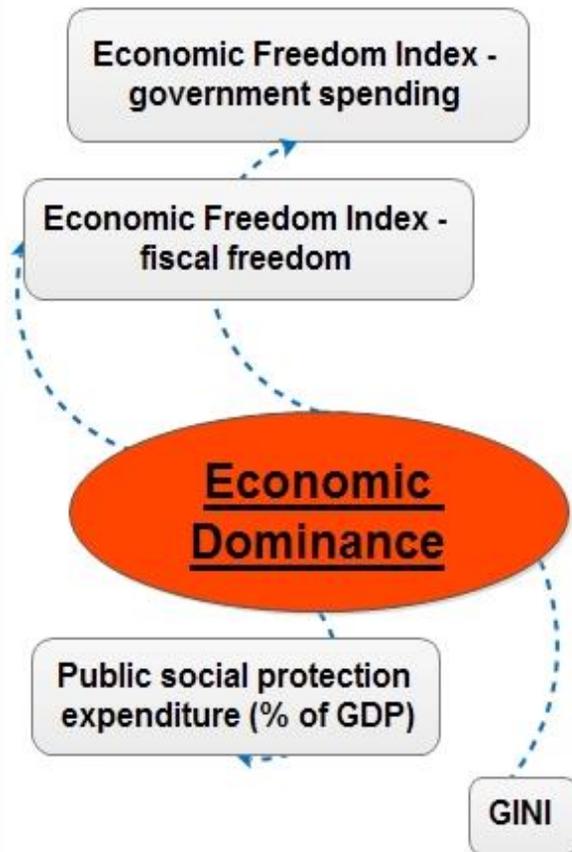
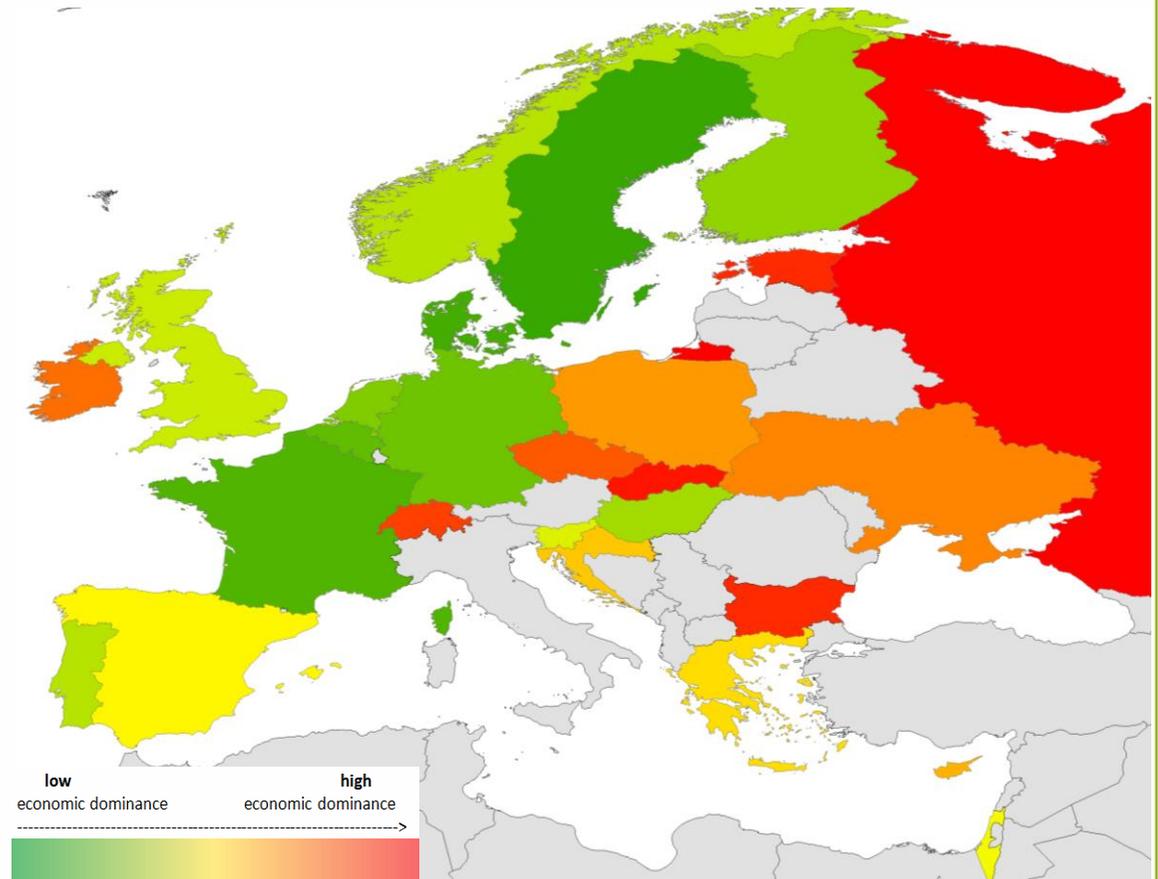


Table 1. Economic Dominance for the 26 considered European countries

RUS	SLK	EST	BUL	CH	CZ	IRE	UKR	POL	CYP	CRO	GRE	ESP
1,84	1,61	1,36	1,36	0,96	0,81	0,75	0,65	0,57	0,55	0,43	-0,07	-0,09
ISR	SLO	UK	POR	NOR	HU	FIN	NL	GER	BEL	F	DK	SWE
-0,12	-0,15	-0,22	-0,48	-0,48	-0,50	-0,72	-0,77	-0,85	-1,70	-1,84	-2,21	-2,38



macro-indicator Family institution

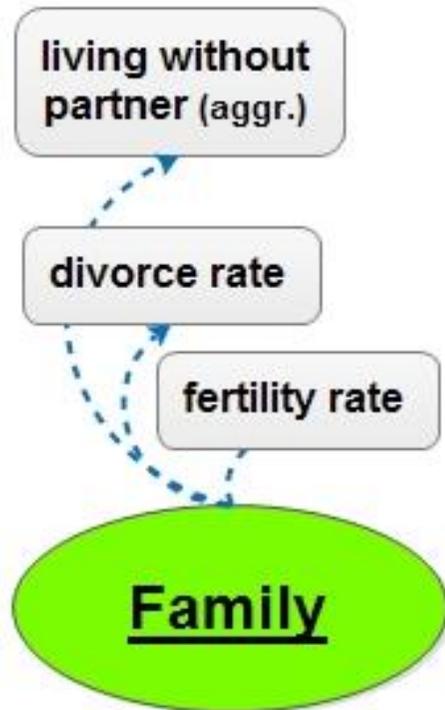
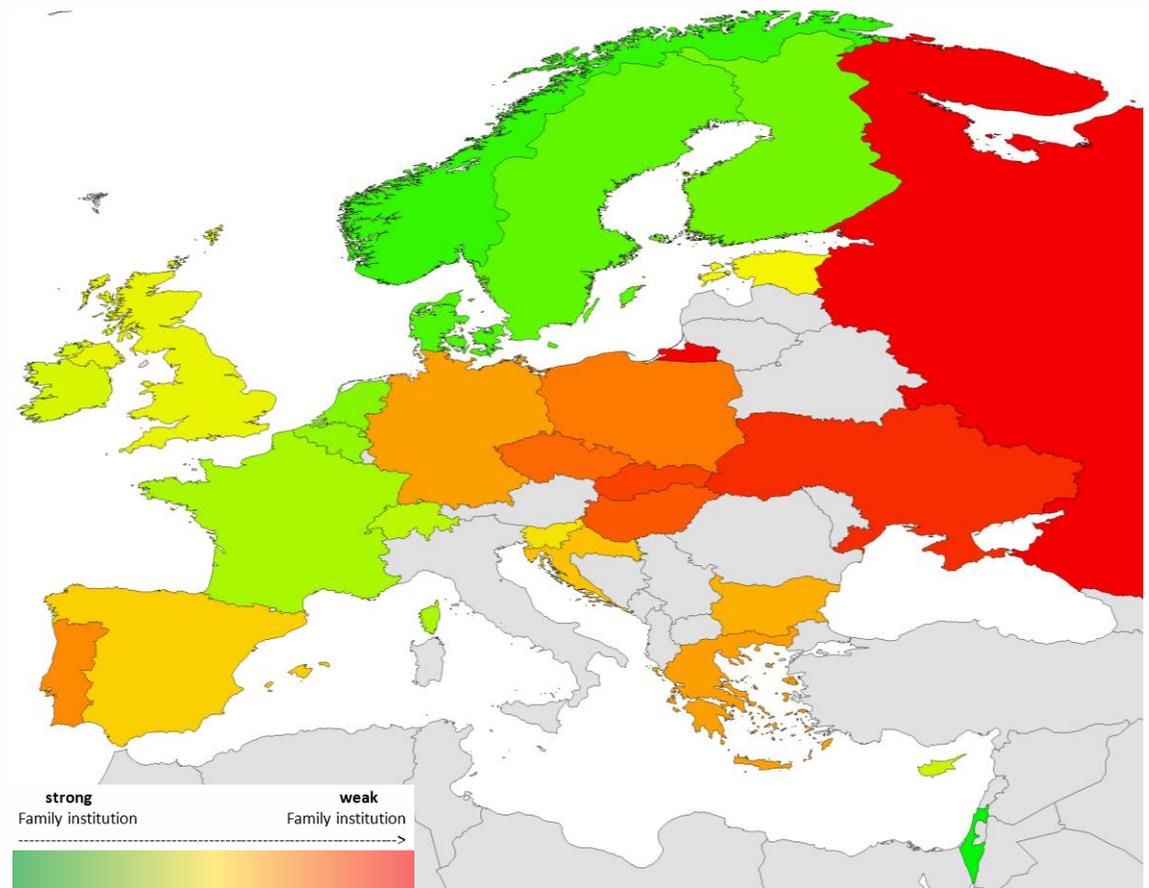


Table 2. Family institution for the 26 considered European countries

RUS	UKR	SLK	HU	CZ	POL	POR	GER	GRE	BUL	CRO	ESP	SLO
-3,92	-2,41	-1,60	-1,43	-1,32	-1,27	-1,08	-1,02	-1,02	-0,60	-0,54	-0,47	-0,32
EST	UK	IRE	CYP	CH	F	BEL	NL	FIN	SWE	DK	NOR	ISR
-0,25	0,04	0,37	0,52	0,54	0,66	1,07	1,08	1,24	1,57	1,91	2,32	5,93



macro-indicator Politics institution

Disinterested in politics (aggr.)

Trust in pol. parties (aggr.)

Trust in politicians (aggr.)

Trust in parliament (aggr.)

TI - Corruption-Index

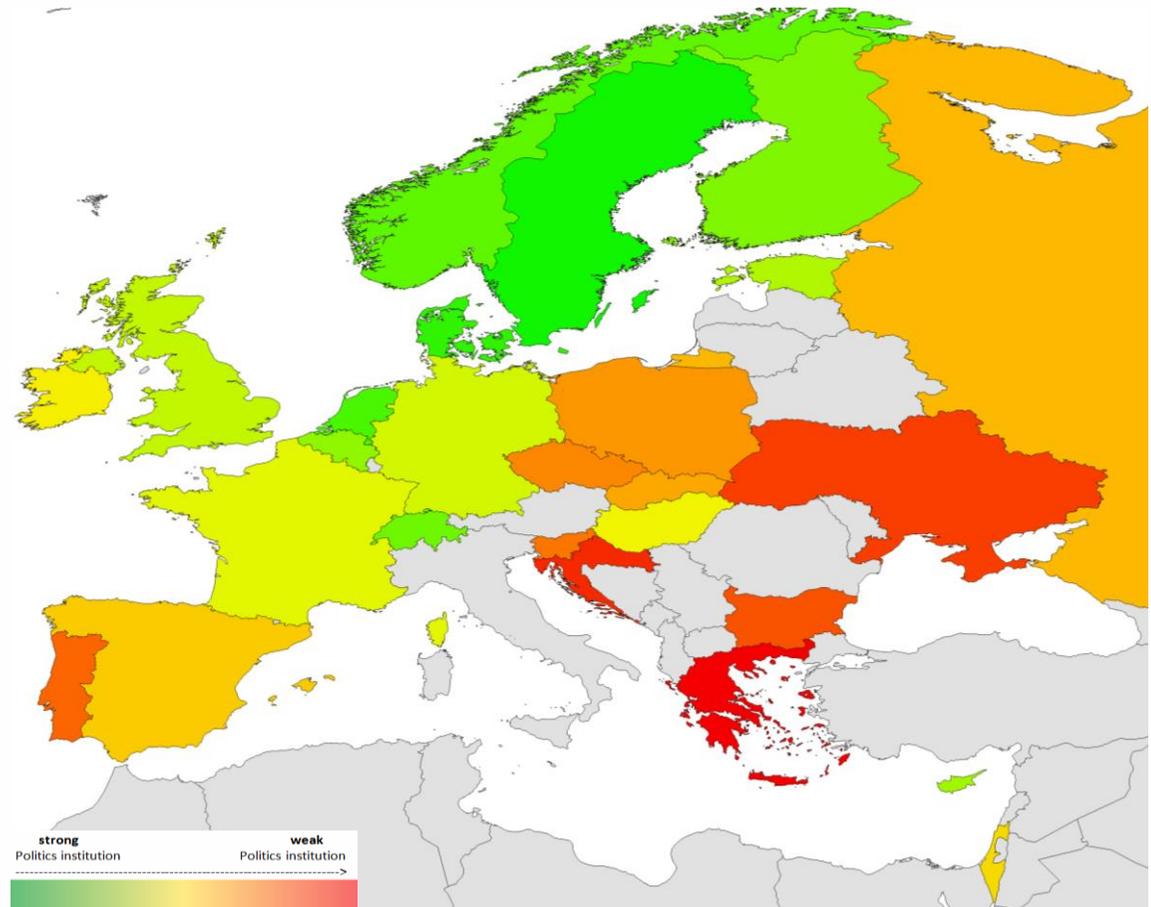
Democracy Index - EIU

Voter turnout
national elections

Politics

Table 3. Politics institution for the 26 considered European countries

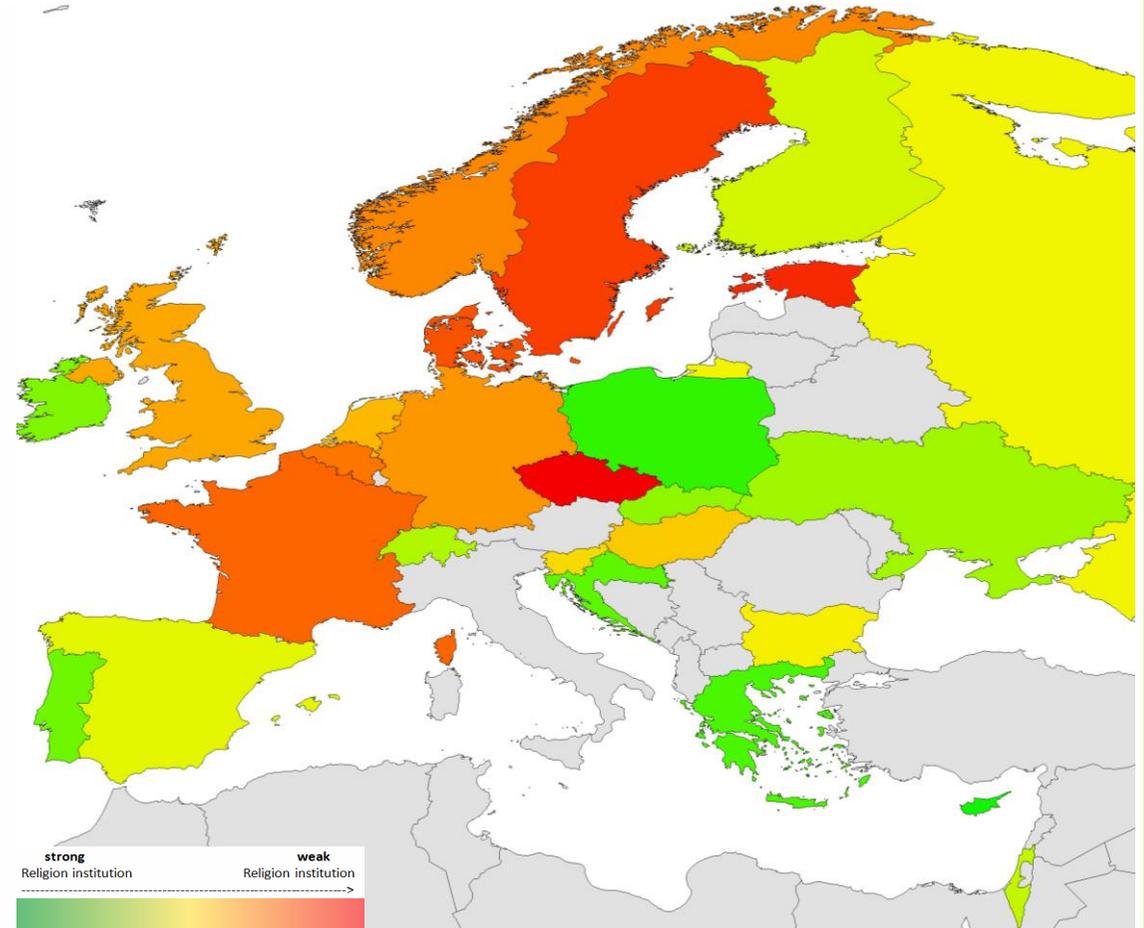
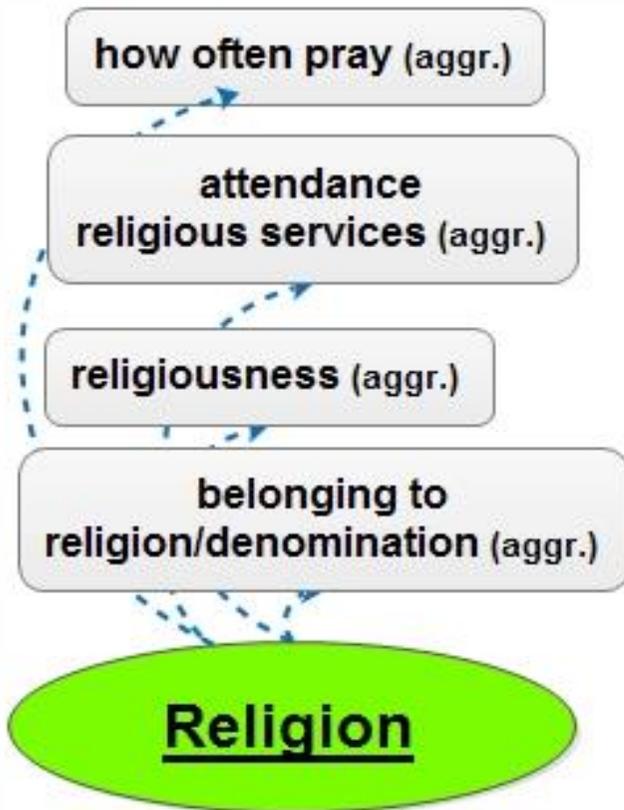
GRE	CRO	UKR	BUL	POR	SLO	CZ	POL	SLK	RUS	ESP	ISR	IRE
-1,66	-1,43	-1,34	-1,20	-1,03	-0,83	-0,61	-0,58	-0,46	-0,40	-0,30	-0,27	-0,15
HU	F	GER	UK	EST	CYP	BEL	FIN	CH	NOR	NL	DK	SWE
-0,12	-0,04	0,14	0,18	0,19	0,27	0,49	1,14	1,46	1,55	1,60	1,67	1,72



macro-indicator Religion institution

Table 4. Religion institution for the 26 considered European countries

CZ	EST	SWE	DK	F	BEL	NOR	GER	UK	NL	HU	SLO	BUL
-1,69	-1,35	-1,21	-0,99	-0,88	-0,81	-0,77	-0,63	-0,56	-0,45	-0,41	-0,37	-0,29
RUS	ESP	FIN	ISR	CH	UKR	SLK	IRE	POR	CRO	GRE	POL	CYP
-0,27	-0,09	-0,06	0,11	0,18	0,73	1,06	1,12	1,13	1,29	1,60	1,74	1,86



macro-indicator Friendship-Networks institution

Table 5. Friendship-networks institution for the 26 considered European countries

UKR	GRE	CZ	RUS	SLK	CYO	HU	CRO	BUL	EST	IRE	POL	SLO
-1,60	-1,42	-1,31	-1,25	-1,17	-1,01	-0,84	-0,83	-0,81	-0,52	-0,14	0,00	0,00
ISR	F	POR	ESP	UK	BEL	GER	FIN	SWE	CH	NL	NOR	DK
0,05	0,14	0,16	0,50	0,55	0,90	1,08	1,17	1,22	1,49	1,50	1,79	1,85

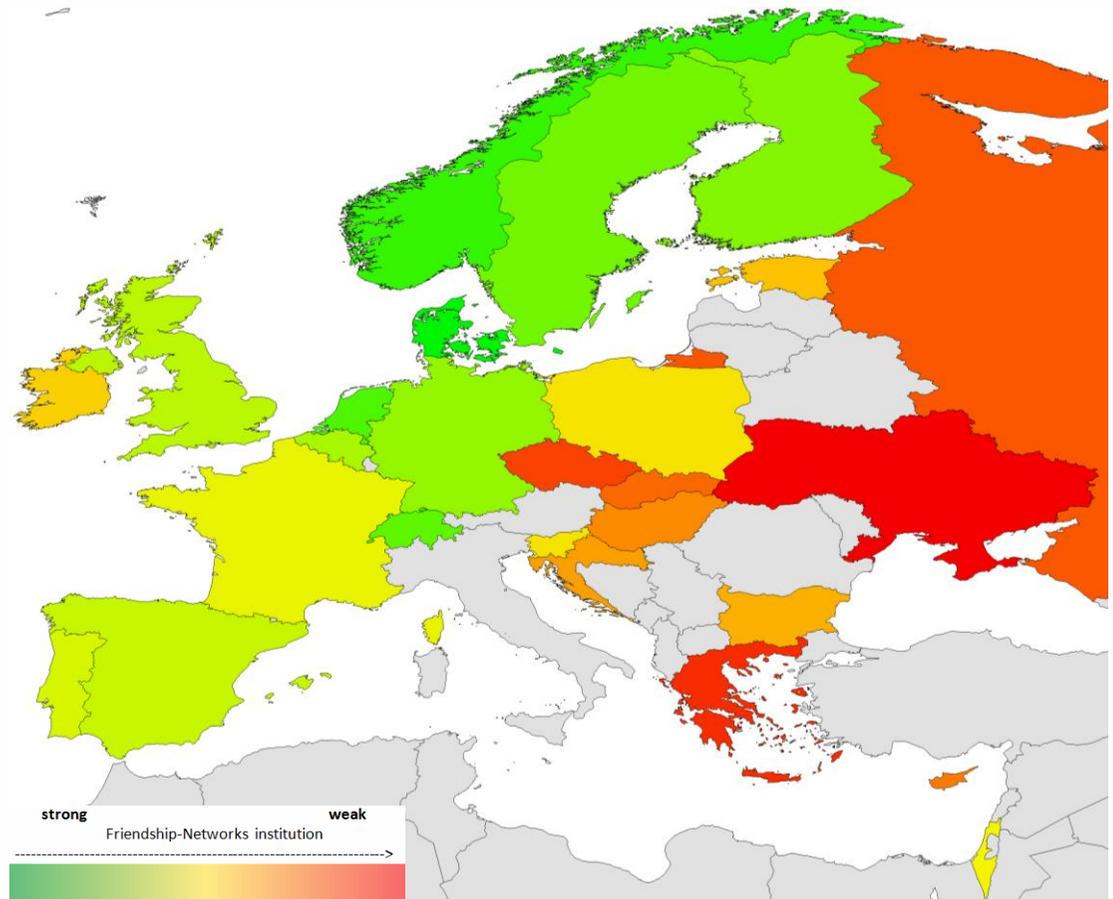
Friendship Networks

how often socially meet friends/colleagues (aggr.)

Noone to discuss intimate and personal matters (aggr.)

Taking part in soc. activities (aggr.)

how often lonely (aggr.)



macro-indicator Education institution

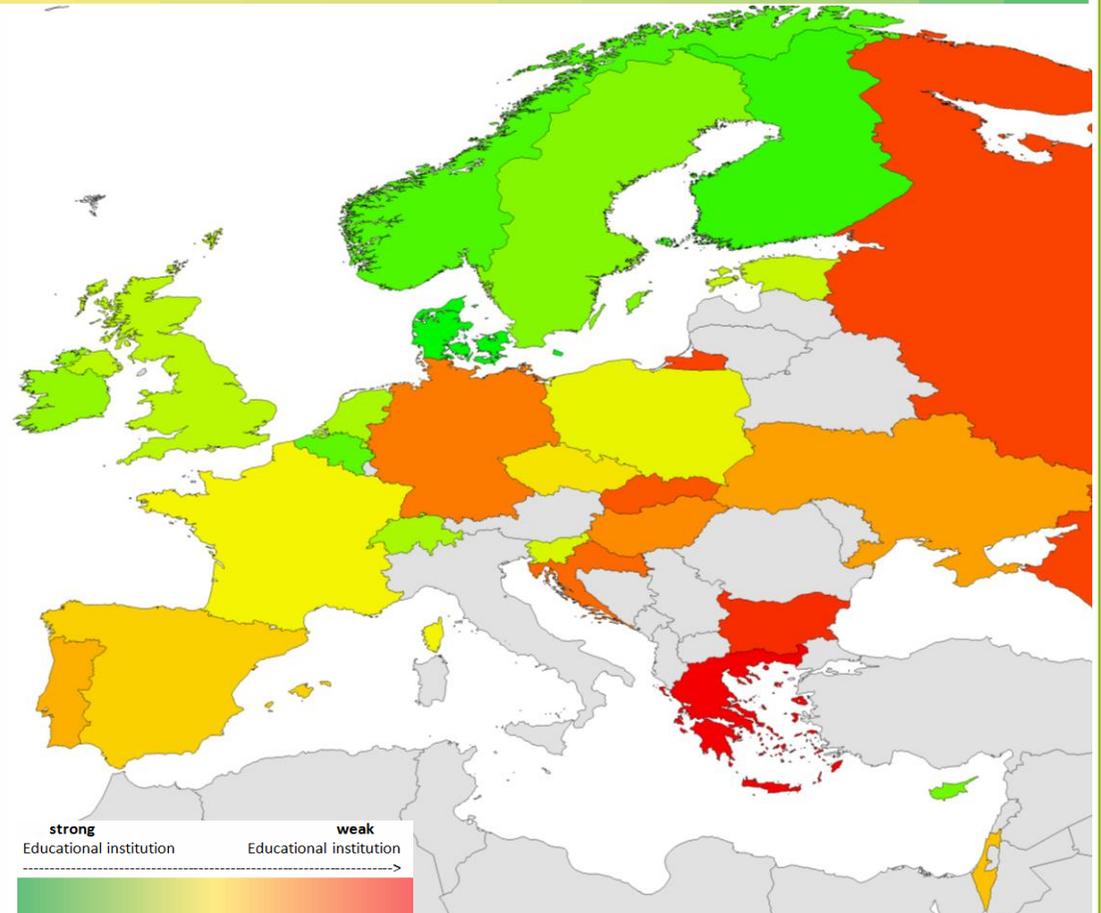
Table 6. Educational institution for the 26 considered European countries

GRE	BUL	RUS	SLK	CRO	GER	HU	UKR	POR	ISR	ESP	CZ	F
-2,25	-1,70	-1,55	-1,01	-0,87	-0,80	-0,71	-0,67	-0,56	-0,52	-0,50	-0,46	-0,33
POL	SLO	EST	UK	CH	NL	IRE	SWE	CYP	BEL	NOR	FIN	DK
0,01	0,18	0,35	0,47	0,48	0,48	0,72	0,91	1,00	1,21	1,36	2,06	2,70



state of education in
country nowadays (aggr.)

public spending on
education (% of GDP)



intercorrelation macro-indicators

Table 7. Pearson Correlation of Economic Dominance with non-economic Institutions on the macro-level

	Religion	Friends	Politics	Education	Family	marketized mentality (macro)
Economic Dominance	.31***	-.67***	-.49***	-.49***	-.48***	.66***

As expected: Economic Dominance is negatively correlated with non-economic institutions besides Religion

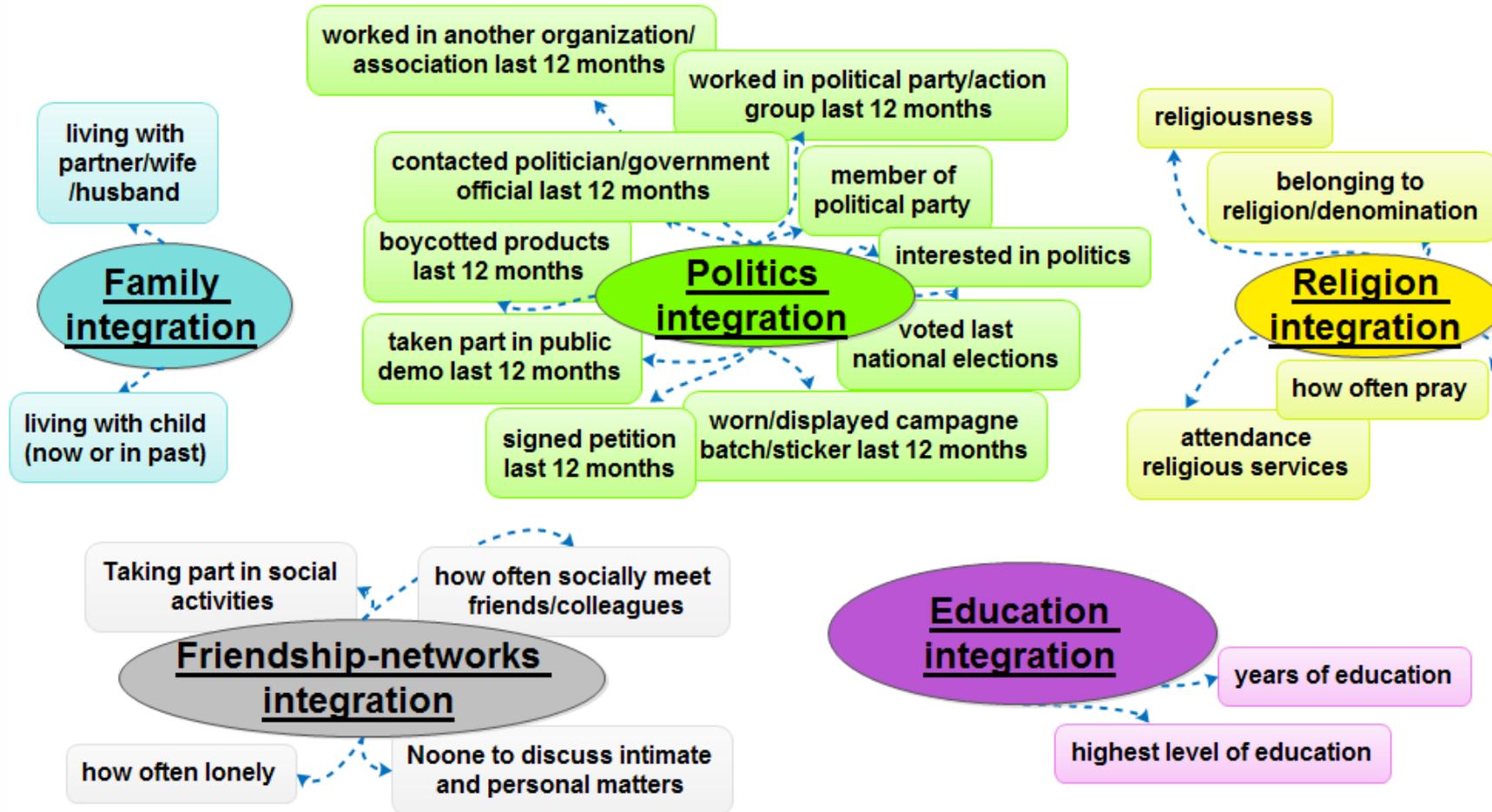
macro-indicators & GDP

Table 8. Pearson Correlation of GDP with Economic Dominance and non-economic Institutions on the macro-level

	Economic Dominance	Religion	Friends	Politics	Education	Family	marketized mentality (macro)
GDP per capita PPP (\$)	-.52***	-.25***	.81***	.77***	.61***	.49***	-.63***

The richer the country, the stronger the politics, friends, education, family and the lesser the economic dominance – exception again Religion

micro-indicators



**marketized mentality =
(Power + Achievement) – (Benevolence + Universalism)**

Results Multi-level-analyses

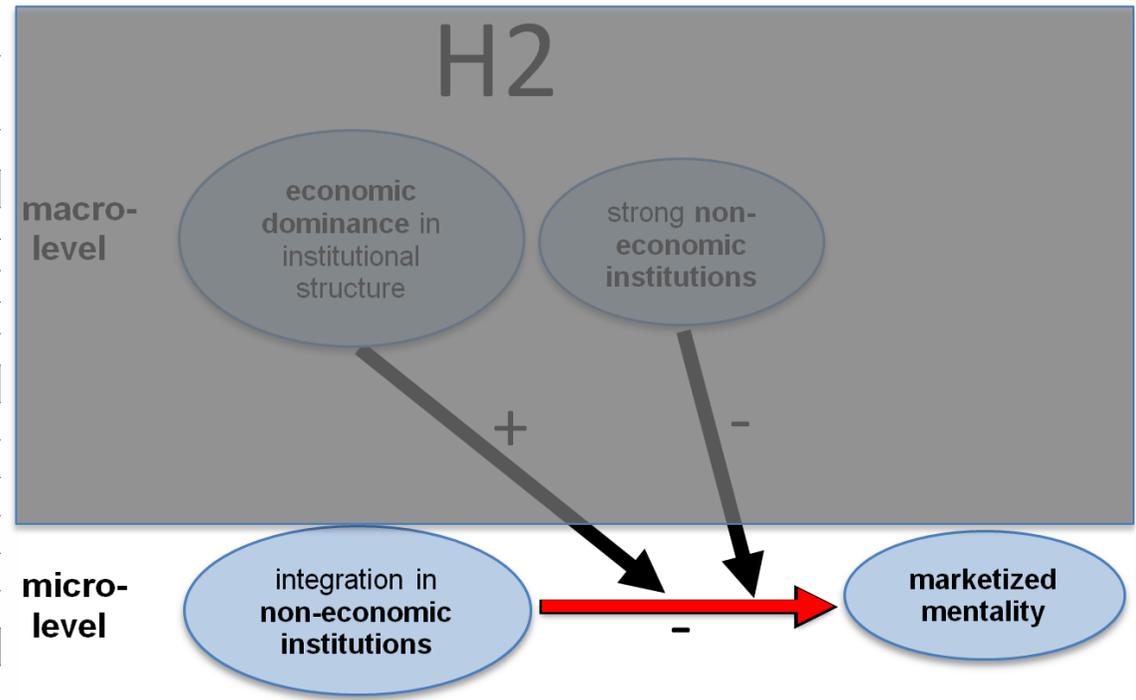
Table 9. Results from Multilevel analyses, mo

Marketized Mentality (mm)	model 1 (HLM: Nullmodell)	
	b (β)	P
Level 1 (N=49666 respondents)		
Integration politics		
Integration friends		
Integration religion		
Integration education		
Integration family		
Level 2 (N=26 countries)		
Politics		
Education		
Family		
Friends		
Religion		
Economic dominance		
Random slopes (variances)		
mm on politics		
mm on friends		
mm on religion		
mm on education		
mm on family		
Level 1 R ² (σ^2)	$\sigma^2 = 4.37^{***}$	
Level 2 R ² ($\tau(00)$)	$\tau(00) = 0.571^{***}$	
ICC (mm)	0.116	
Chi ² (df)		
CFI	0,000	
RMSEA	0.000	
SRMR within	0.000	
SRMR between	0.000	
Log Likelihood/AIC	-107177.492/ 214360.985	

Results Multi-level-analyses

Table 9. Results from Multilevel analyses, models 1-6

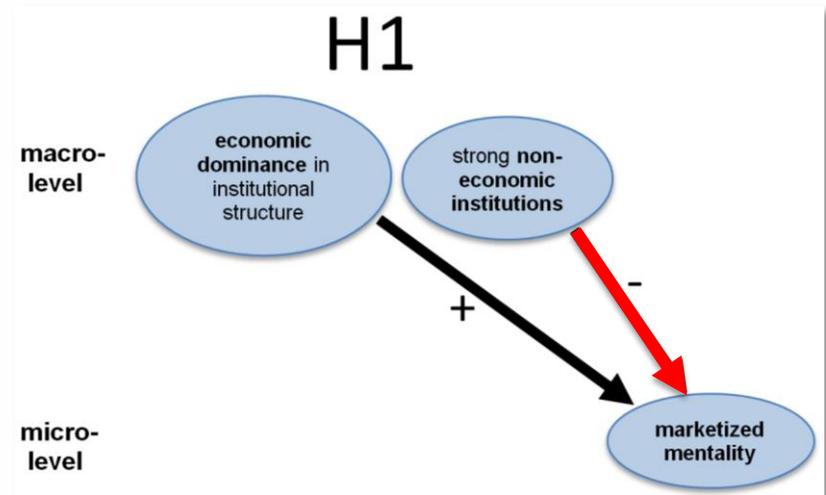
Marketized Mentality (mm)	model 1 (HLM: Nullmodell)		model 2	
	b (β)	P	b (β)	p
Level 1 (N=49666 respondents)				
Integration politics			-0.11 (-0.06)	0.000
Integration friends			0.06 (0.03)	0.010
Integration religion			-0.24 (-0.12)	0.000
Integration education			0.07 (0.04)	0.000
Integration family			-0.14 (-0.09)	0.000
Level 2 (N=26 countries)				
Politics				
Education				
Family				
Friends				
Religion				
Economic dominance				
Random slopes (variances)				
mm on politics				
mm on friends				
mm on religion				
mm on education				
mm on family				
Level 1 R ² (σ ²)	σ ² = 4.37***		R ² =0.033	
Level 2 R ² (τ(00))	τ(00)= 0.574***		τ(00)= 0.636***	
ICC (mm)	0.116		0.127	
Chi ² (df)			206.54 (5)	
CFI	0,000		1.000	
RMSEA	0.000		0.000	
SRMR within	0.000		0.000	
SRMR between	0.000		0.000	
Log Likelihood/AIC	-107177.492/ 214360.985		-95377.725/ 190771.450	



Results Multi-level-analyses

Table 9. Results from Multilevel analyses, models 1-6

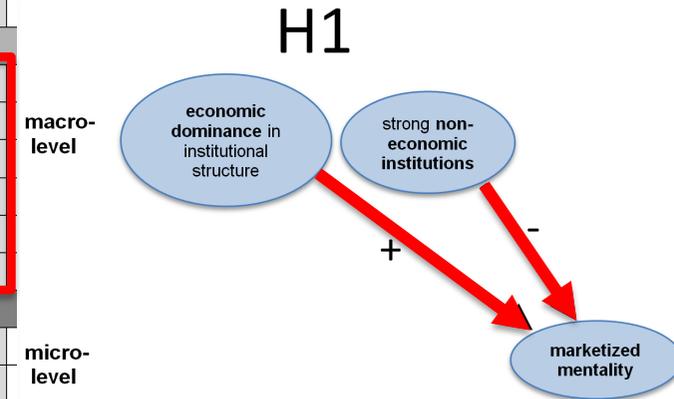
Marketized Mentality (mm)	model 1 (HLM: Nullmodell)		model 2		model 3	
	b (β)	P	b (β)	p	b (β)	P
Level 1 (N=49666 respondents)						
Integration politics			-0.11 (-0.06)	0.000		
Integration friends			0.06 (0.03)	0.010		
Integration religion			-0.24 (-0.12)	0.000		
Integration education			0.07 (0.04)	0.000		
Integration family			-0.14 (-0.09)	0.000		
Level 2 (N=26 countries)						
Politics					-0.15 (-0.19)	0.507
Education					-0.08 (-0.12)	0.544
Family					0.03 (0.06)	0.787
Friends					-0.33 (-0.46)	0.061
Religion					0.08 (0.10)	0.457
Economic dominance						
Random slopes (variances)						
mm on politics						
mm on friends						
mm on religion						
mm on education						
mm on family						
Level 1 R ² (σ ²)	σ ² = 4.37***		R ² =0.033		σ ² =4.37	
Level 2 R ² (τ(00))	τ(00)= 0.574***		τ(00)= 0.636***		R ² = 0.54***	τ(00)res= 0.46 ***
ICC (mm)	0.116		0.127		0.116	
Chi ² (df)			206.54 (5)		17.555 (5)	
CFI	0,000		1.000		1.000	
RMSEA	0.000		0.000		0.000	
SRMR within	0.000		0.000		0.000	
SRMR between	0.000		0.000		0.000	
Log Likelihood/AIC	-107177.492/ 214360.985		-95377.725/ 190771.450		-107167.456 / 214350.911	



Results Multi-level-analyses

Table 9. Results from Multilevel analyses, models 1-6

Marketized Mentality (mm)	model 1 (HLM: Nullmodell)		model 2		model 3		model 4	
	b (β)	P	b (β)	p	b (β)	P	b (β)	p
Level 1 (N=49666 respondents)								
Integration politics			-0.11 (-0.06)	0.000				
Integration friends			0.06 (0.03)	0.010				
Integration religion			-0.24 (-0.12)	0.000				
Integration education			0.07 (0.04)	0.000				
Integration family			-0.14 (-0.09)	0.000				
Level 2 (N=26 countries)								
Politics					-0.15 (-0.19)	0.507	-0.24 (-0.32)	0.246
Education					-0.08 (-0.12)	0.544	-0.03 (-0.04)	0.812
Family					0.03 (0.06)	0.787	0.05 (0.12)	0.520
Friends					-0.33 (-0.46)	0.061	-0.17 (-0.24)	0.370
Religion					0.08 (0.10)	0.457	0.02 (0.03)	0.826
Economic dominance							0.24 (0.35)	0.039
Random slopes (variances)								
mm on politics								
mm on friends								
mm on religion								
mm on education								
mm on family								
Level 1 R ² (σ ²)	σ ² = 4.37***		R ² =0.033		σ ² =4.37		σ ² =4.37	
Level 2 R ² (τ(00))	τ(00)= 0.574***		τ(00)= 0.636***		R ² = 0.54***	τ(00)res= 0.46 ***	R ² = 0.604***	τ(00)res= =0.396
ICC (mm)	0.116		0.127		0.116		0.116	
Chi ² (df)			206.54 (5)		17.555 (5)		21.974 (6)	
CFI	0,000		1.000		1.000		1.000	
RMSEA	0.000		0.000		0.000		0.000	
SRMR within	0.000		0.000		0.000		0.000	
SRMR between	0.000		0.000		0.000		0.000	
Log Likelihood/AIC	-107177.492/ 214360.985		-95377.725/ 190771.450		-107167.456 / 214350.911		-107165.544 / 214349.087	



Results Multi-level-analyses

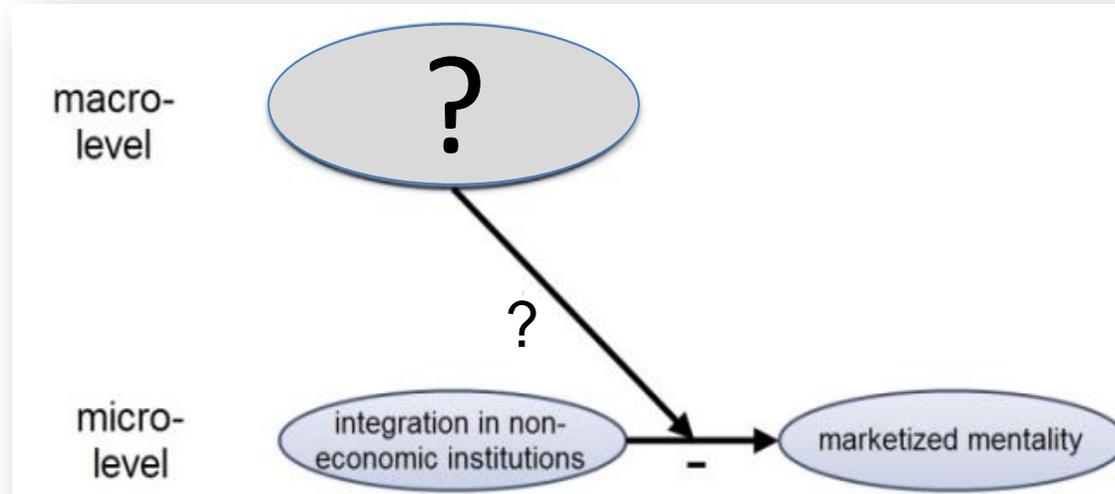
Table 9. Results from Multilevel analyses, models 1-6

Marketized Mentality (mm)	model 1 (HLM: Nullmodell)		model 2		model 3		model 4		model 5	
	b (β)	P	b (β)	p	b (β)	P	b (β)	p	b (β)	p
Level 1 (N=49666 respondents)										
Integration politics			-0.11 (-0.06)	0.000					-0.11 (-0.06)	0.000
Integration friends			0.06 (0.03)	0.010					0.06 (0.04)	0.010
Integration religion			-0.24 (-0.12)	0.000					-0.24 (-0.11)	0.000
Integration education			0.07 (0.04)	0.000					0.07 (0.04)	0.000
Integration family			-0.14 (-0.09)	0.000					-0.14 (-0.09)	0.000
Level 2 (N=26 countries)										
Politics					-0.15 (-0.19)	0.507	-0.24 (-0.32)	0.246	-0.22 (-0.28)	0.298
Education					-0.08 (-0.12)	0.544	-0.03 (-0.04)	0.812	-0.06 (-0.09)	0.634
Family					0.03 (0.06)	0.787	0.05 (0.12)	0.520	0.06 (0.14)	0.465
Friends					-0.33 (-0.46)	0.061	-0.17 (-0.24)	0.370	-0.18 (-0.24)	0.374
Religion					0.08 (0.10)	0.457	0.02 (0.03)	0.826	0.02 (0.03)	0.854
Economic dominance							0.24 (0.35)	0.039	0.24 (0.35)	0.046
Random slopes (variances)										
mm on politics										
mm on friends										
mm on religion										
mm on education										
mm on family										
Level 1 R ² (σ ²)	σ ² = 4.37***		R ² =0.033		σ ² =4.37		σ ² =4.37		R ² =0.030	
Level 2 R ² (τ(00))	τ(00)= 0.574***		τ(00)=0.636***		R ² = 0.54***	τ(00)res= 0.46 ***	R ² = 0.604***	τ(00)res= =0.396	R ² =0.59 7***	τ(00)res= 0.403***
ICC (mm)	0.116		0.127		0.116		0.116		0.116	
Chi ² (df)			206.54 (5)		17.555 (5)		21.974 (6)		519.720 (16)	
CFI	0,000		1.000		1.000		1.000		0.964	
RMSEA	0.000		0.000		0.000		0.000		0.009	
SRMR within	0.000		0.000		0.000		0.000		0.000	
SRMR between	0.000		0.000		0.000		0.000		0.019	
Log Likelihood/AIC	-107177.492/ 214360.985		-95377.725/ 190771.450		-107167.456 / 214350.911		-107165.544 / 214349.087		-441386.625/ 882801.251	

Results Multi-level-analyses

Table 10. Results from Multilevel analyses, models 7-11

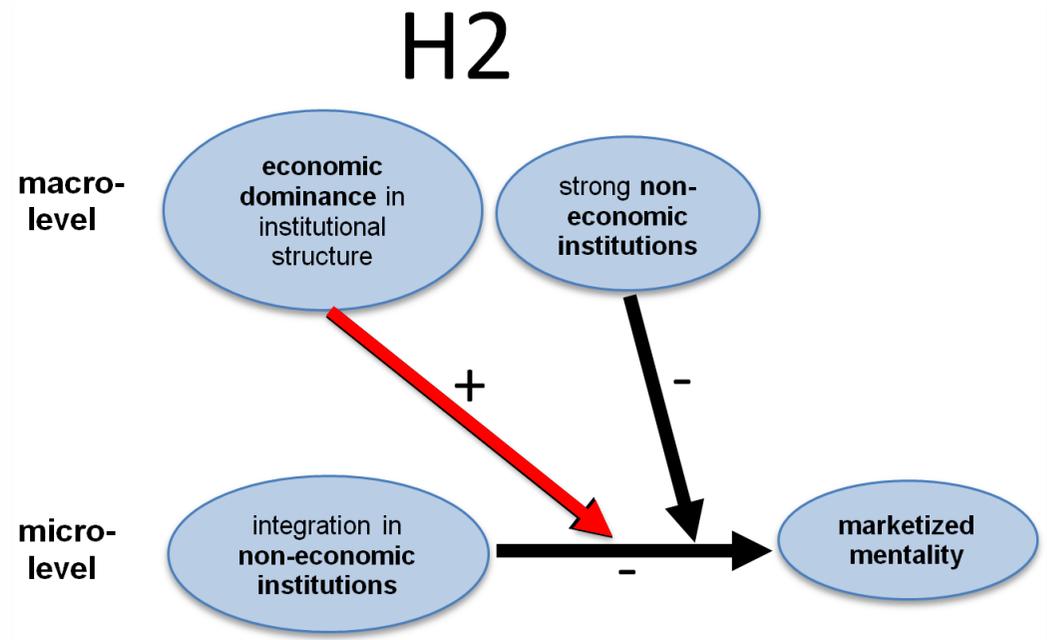
Marketized Mentality (mm)	model 7	
	b	p
Level 1 (N=49666 respondents)		
Integration politics	random	
Integration friends	random	
Integration religion	random	
Integrat. Education	random	
Integration family	random	
Level 2 (N=26 countries)		
Politics	-0.43	0.027
Education	-0.28	0.078
Family	0.14	0.024
Friends	0.19	0.407
Religion	0.21	0.022
Economic dominance	0.26	0.012
Random slopes (variances)		
mm on politics	0.008	0.002
mm on friends	0.011	0.000
mm on religion	0.014	0.019
mm on education	0.011	0.006
mm on family	0.004	0.001
Random slopes as outcomes		
rs_politics on ecodo		
rs_friend on ecodo		
rs_religion on ecodo		
rs_educ on ecodo		
rs_family on ecodo		
rs_religion on education		
rs_educ on education		
rs_friend on family		
rs_educ on family		
rs_friend on friends		
rs_educ on friends		
Lcvel 1 R ² (σ^2)	$\sigma^2_{res}=4.168$	
Lcvel 2 R ² ($\tau(00)$)	$\tau(00)= 0.344^*$	
ICC (Marketized mentality)	0.116	
Log Likelihood/AIC	-441156.762/882361.524	



Results Multi-level-analyses

Table 10. Results from Multilevel analyses, models 7-11

Marketized Mentality (mm)	model 7		model 8	
	b	p	b	p
Level 1 (N=49666 respondents)				
Integration politics	random		random	
Integration friends	random		random	
Integration religion	random		random	
Integrat. Education	random		random	
Integration family	random		random	
Level 2 (N=26 countries)				
Politics	-0.43	0.027	-0.44	0.025
Education	-0.28	0.078	-0.28	0.083
Family	0.14	0.024	0.14	0.023
Friends	0.19	0.407	0.19	0.399
Religion	0.21	0.022	0.21	0.025
Economic dominance	0.26	0.012	0.28	0.042
Random slopes (variances)				
mm on politics	0.008	0.002	res=0.006	0.015
mm on friends	0.011	0.000	res=0.009	0.000
mm on religion	0.014	0.019	res=0.013	0.016
mm on education	0.011	0.006	res=0.009	0.001
mm on family	0.004	0.001	res=0.004	0.001
Random slopes as outcome				
rs_politics on ecodo			0.042	0.017
rs_friend on ecodo			0.037	0.042
rs_religion on ecodo			-0.015	0.456
rs_educ on ecodo			0.041	0.044
rs_family on ecodo			-0.008	0.469
rs_religion on education				
rs_educ on education				
rs_friend on family				
rs_educ on family				
rs_friend on friends				
rs_educ on friends				
Lvel 1 R ² (σ ²)	σ ² res=4.168		σ ² res=4.168	
Lvel 2 R ² (τ(00))	τ(00)= 0.344*		τ(00) res= 0.335*	
ICC (Marketized mentality)	0.116		0.116	
Log Likelihood/AIC	-441156.762/882361.524		-441149.518/882357.037	



Conclusion

- better understanding of the **interplay of institutions and culture** on macro- and micro-level: **state of institutions** has an **impact on culture** of countries
- **Economic dominance** and **weak non-economic institutions** further **marketized culture**
- fruitful attempt to **operationalize** IAT (strength of Institutions, economic dominance, integration in institutions and marketized mentality)
- many tenets of IAT can be **confirmed** by multi-level modelling
- this research focuses on marketization processes with **economic dominance as institutional imbalance** since this is connected with **crimes** and **prejudices**, but **other imbalances** are **conceivable**

thank you very much for your attention!

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