

Trust in Science or Technocracy Tolerance TT – two sides of the same coin?

Bauer MW

In collaboration with AS Behm-Bahtat, H Bunt, B Falade
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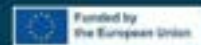


D1.3: POIESIS Indicators of Trust in Science

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Jun 2024



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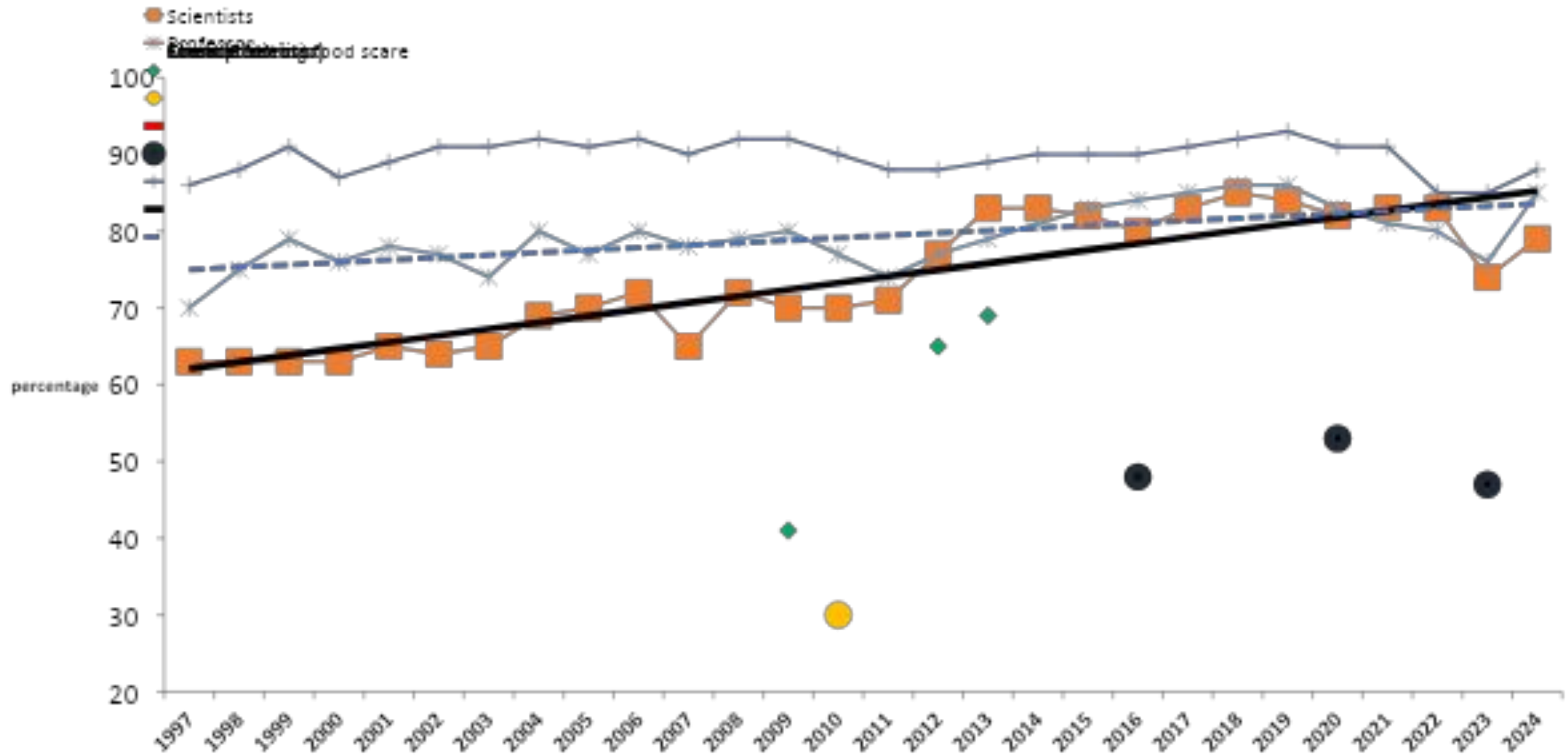
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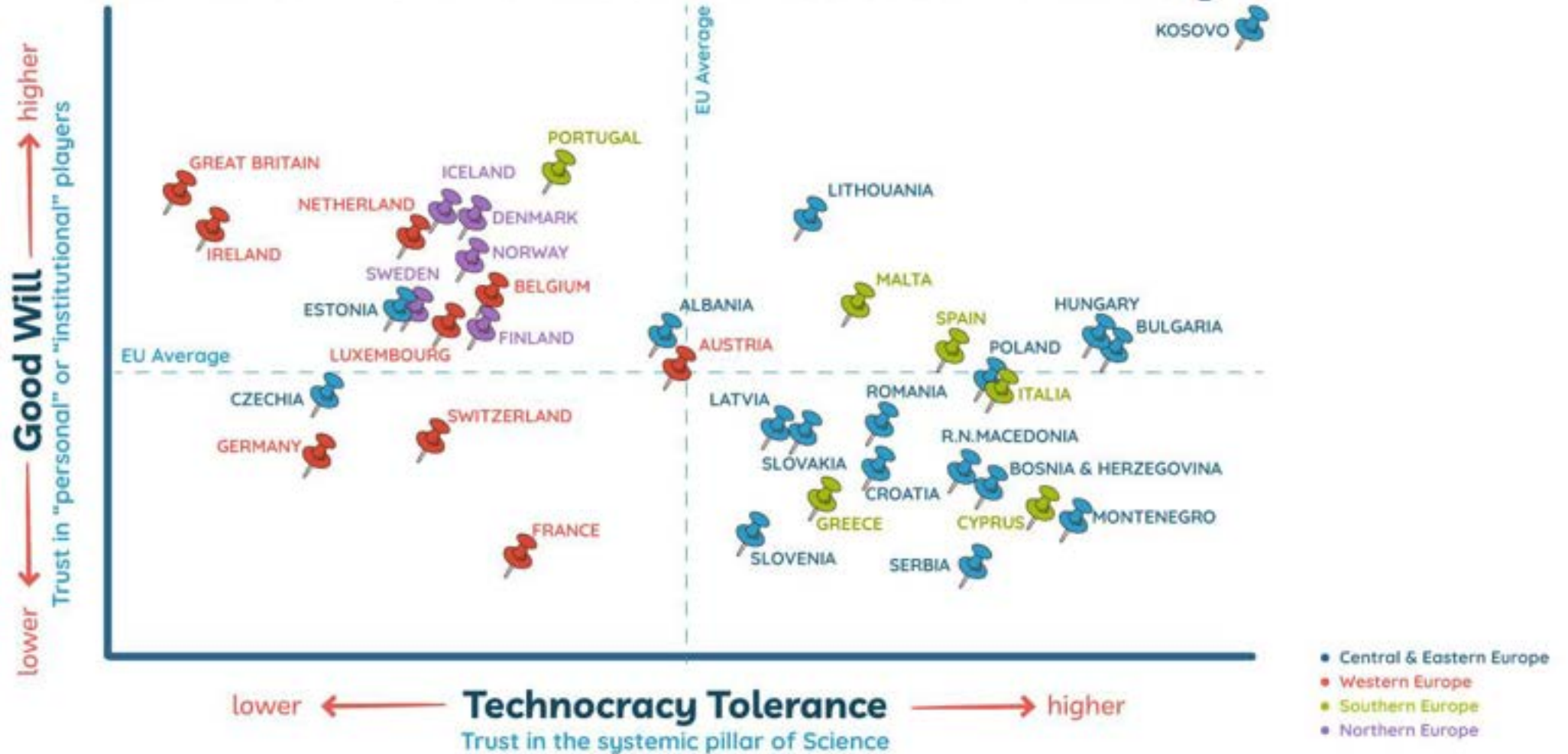


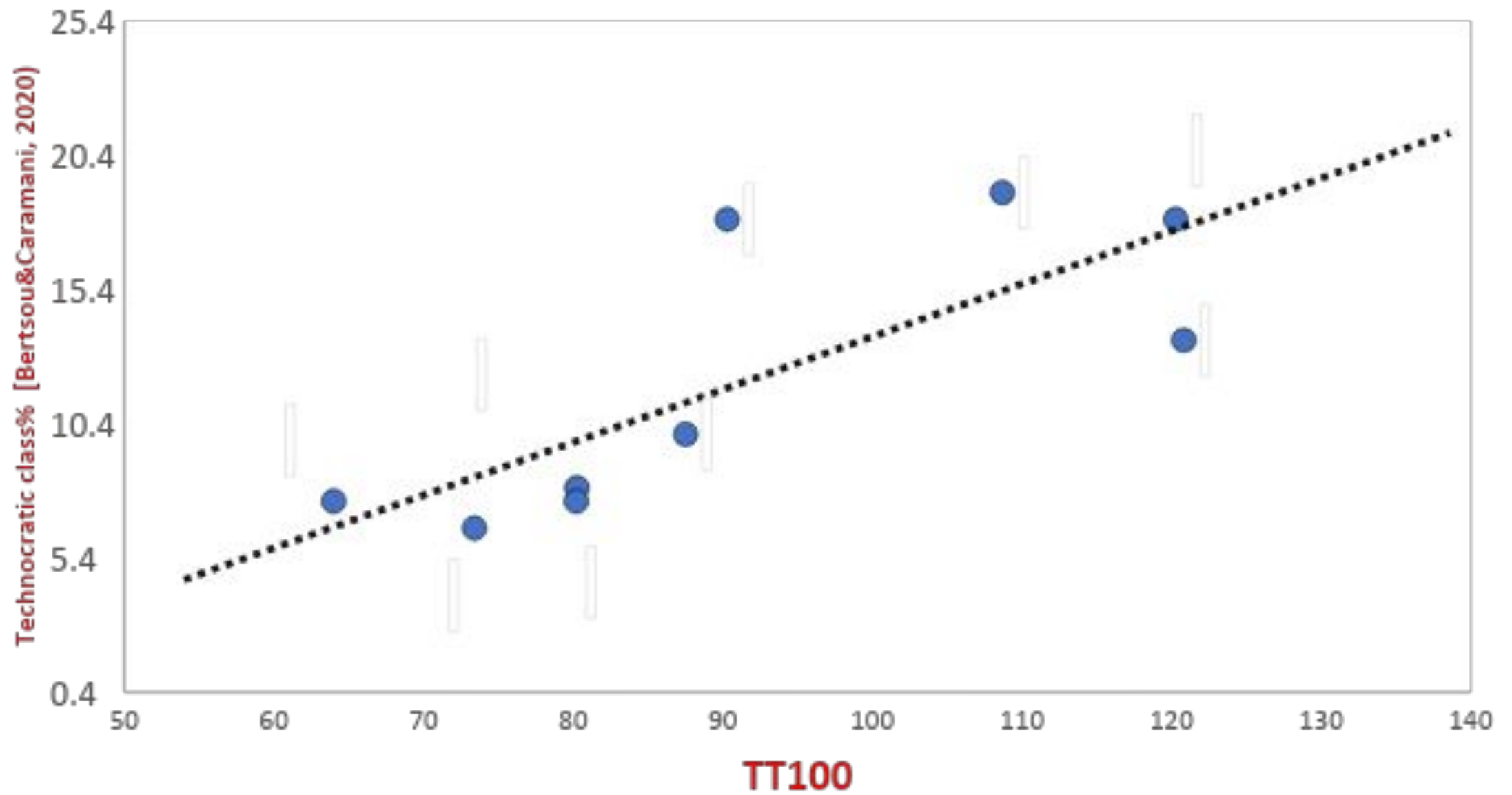
Feb 2025

Ipsos MORI Veracity index 'telling the truth' (Britain, n=1000, CATI; MB drawn)

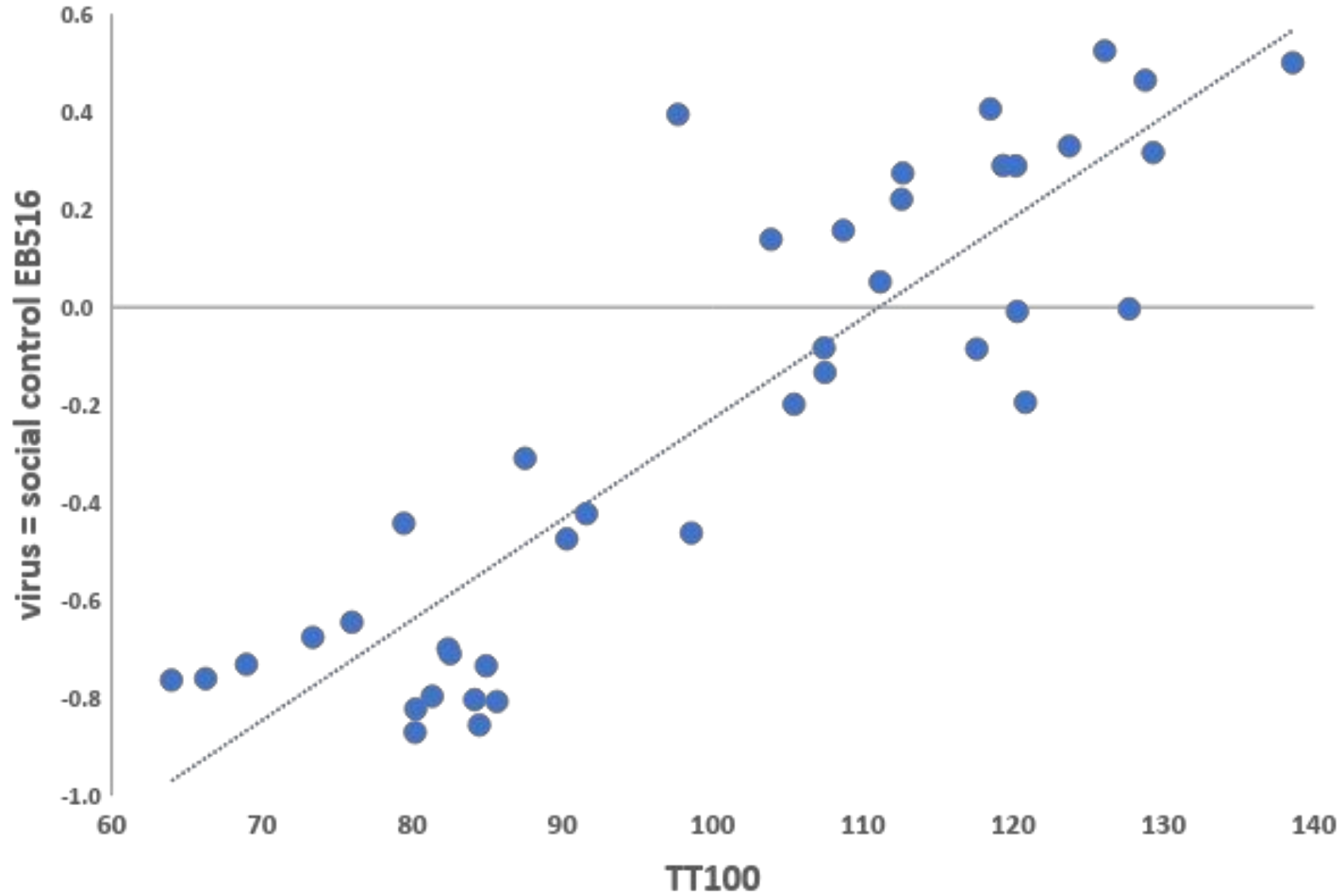


The Four Cultures of **Trust** in Europe

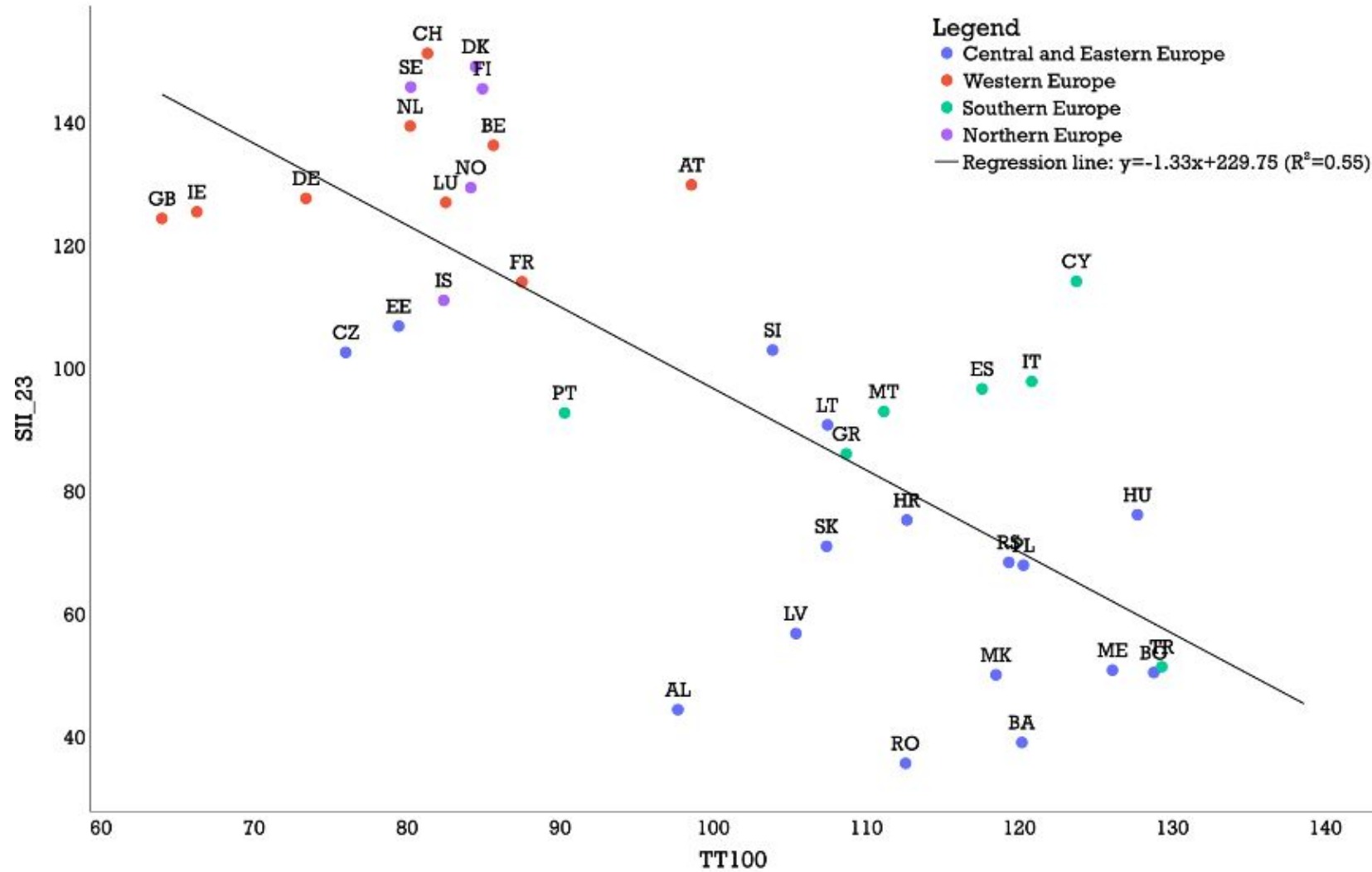




TT100 and conspiracy mentality

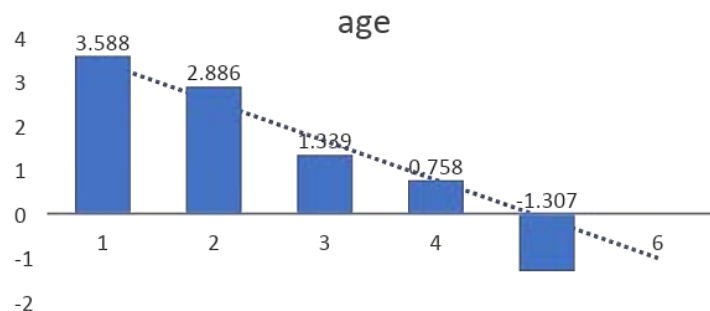
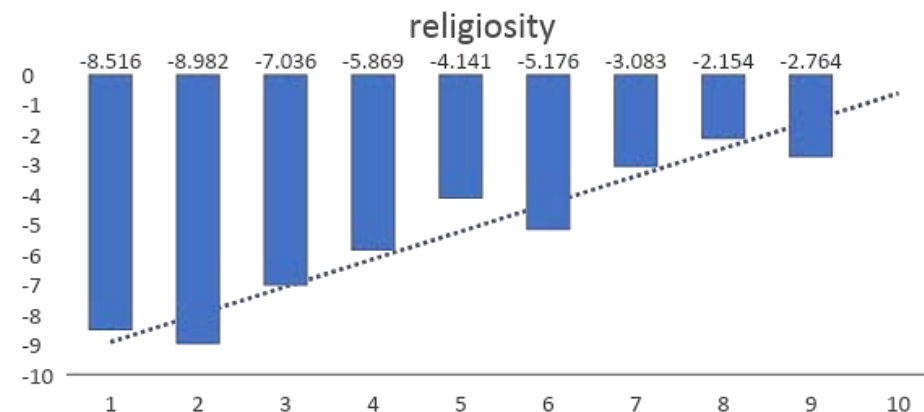
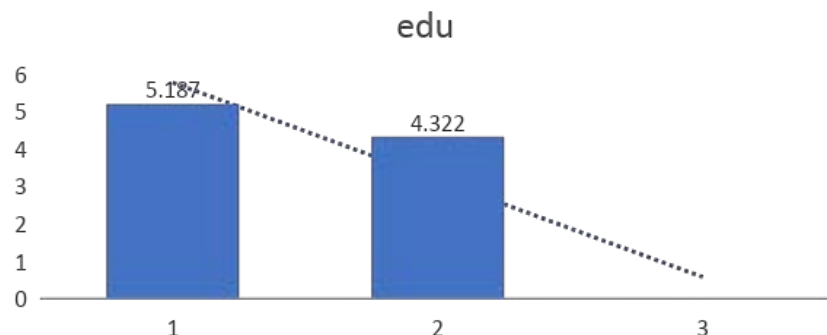
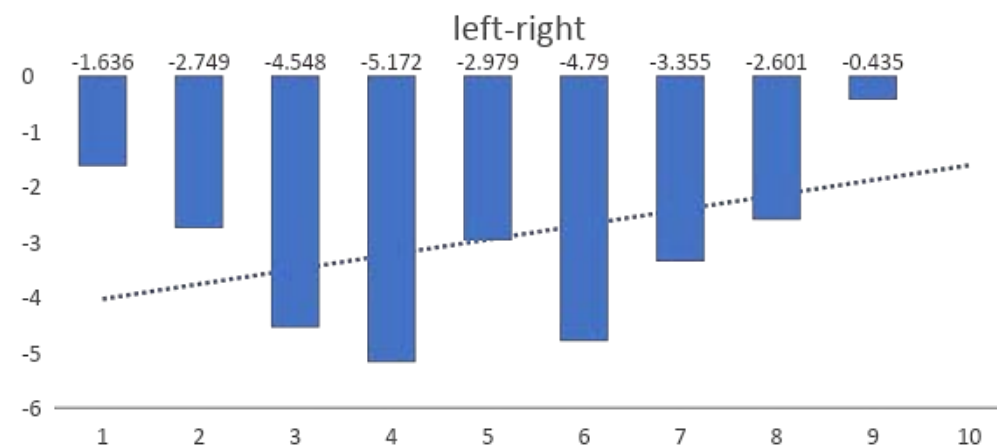
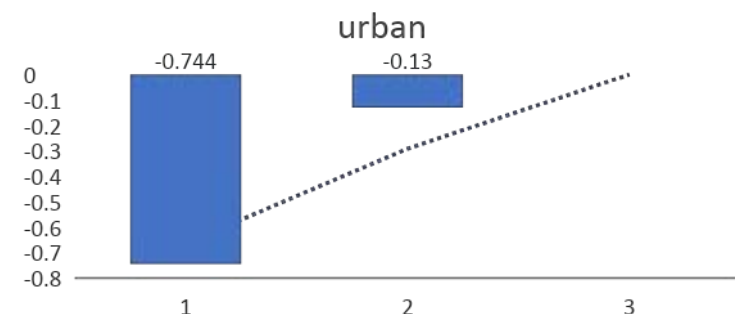


TT100 and Innovation potential SII 2023



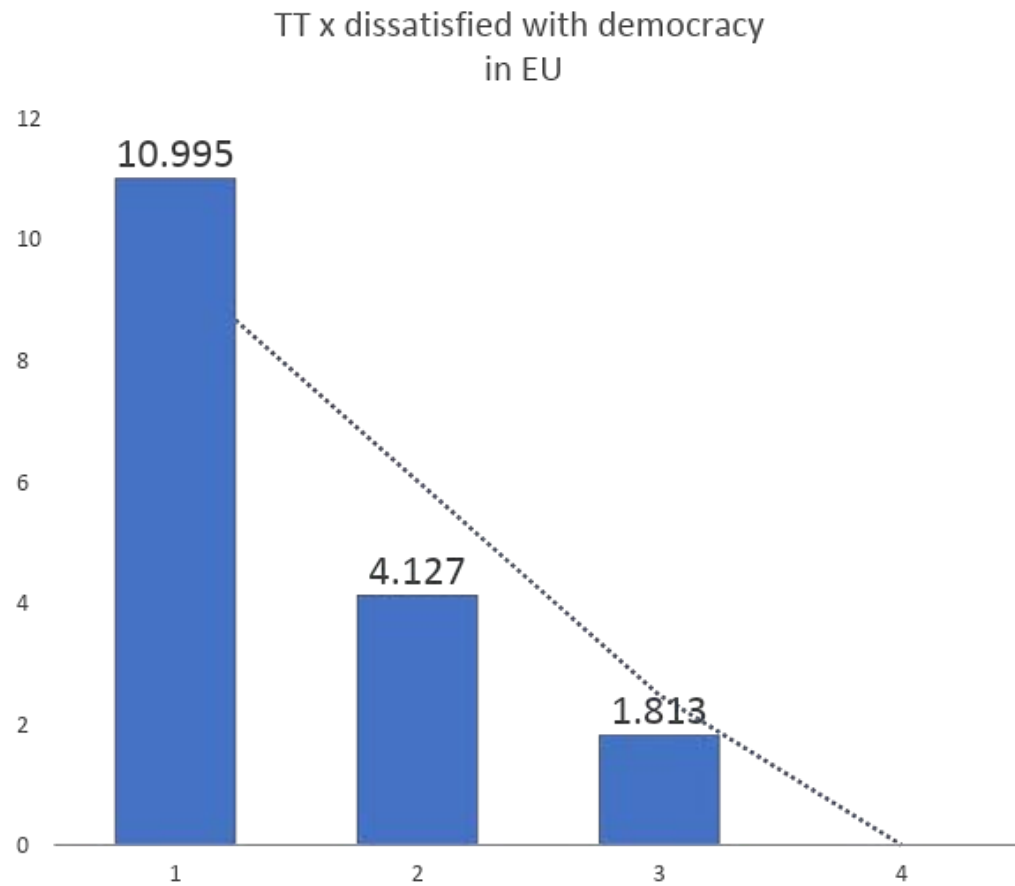
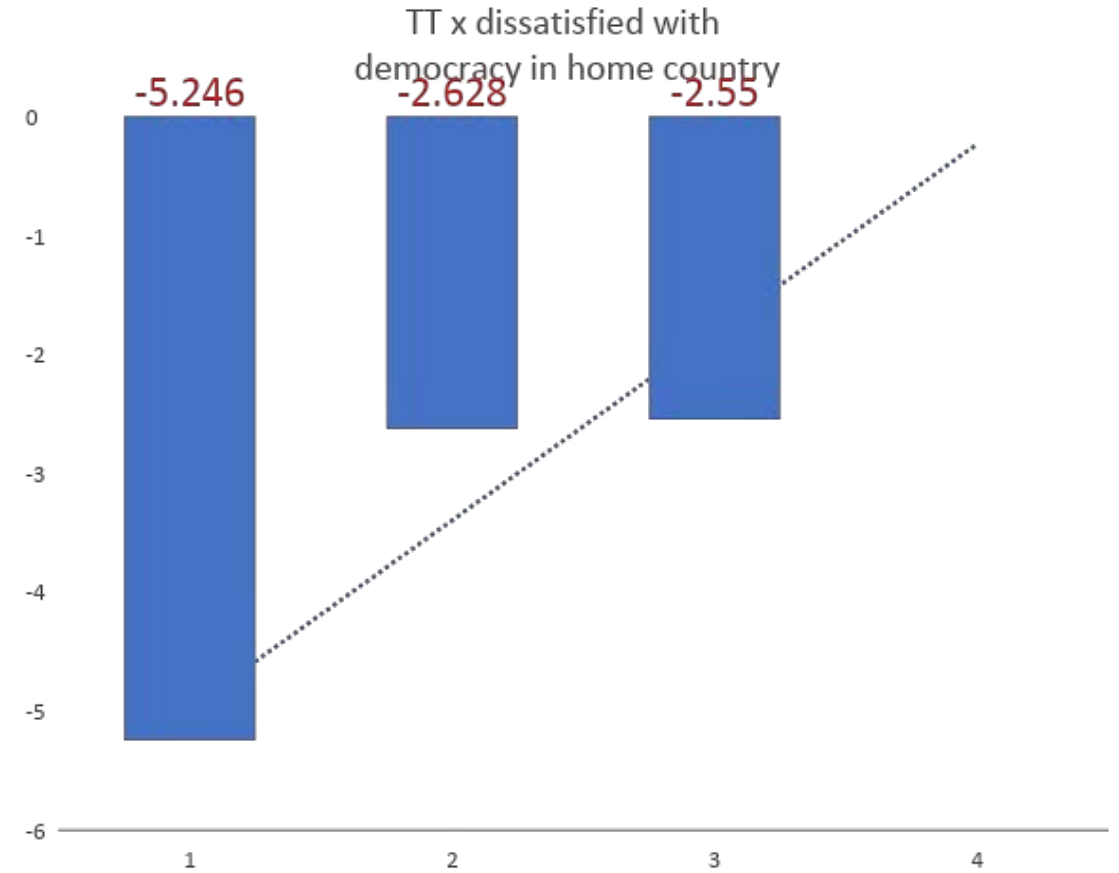
GLM [General linear model] – beta values in relation to comparator

Dep var: ML Beta values for **TT technocracy** tolerance [Pillars] [gender n.s.]



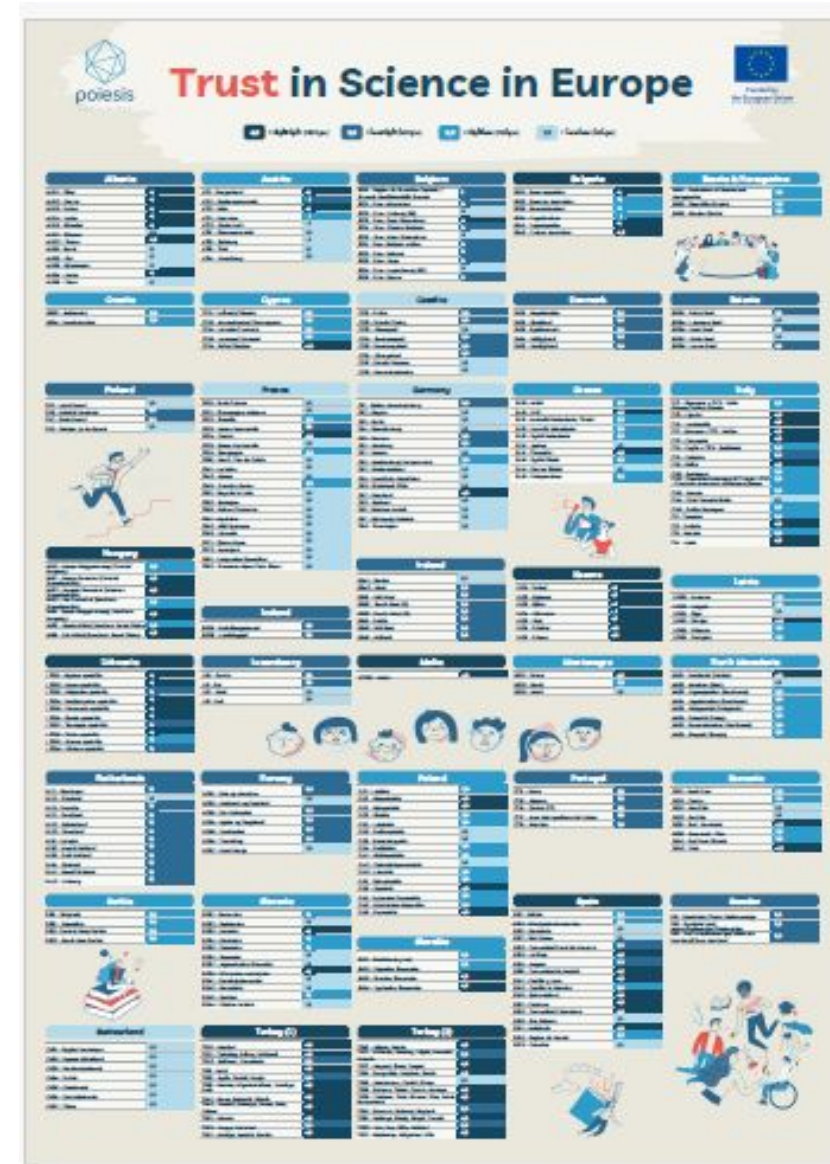
GLM [General linear model] – beta in relation to compactor [dissatisfied]

Dep var: ML Beta values for **TT technocracy** tolerance [Pillars] [gender, rural-urban n.s.]



- Dep Var: TT100_micro
- Partial Correlations
- Ceteris paribus

	edu3 [tertiary]	Sd5 age [old]	D10 Gender [fem=2]	D25 rural- urban [urban]	D1 left- right [right]	D90.1 religiosity [hi]	SD18 democra cy home [dissatis]	SD18b democra cy EU [dissatis]	
Denmark (DK)	-0.041	0.048	-0.046	0.033	0.067	0.029	-0.018	-0.047	
Greece (GR)	0.146	0.057	-0.021	-0.045	-0.043	-0.056	-0.079	-0.053	
Spain (ES)	-0.110	-0.055	-0.076	0.084	-0.143	0.025	-0.081	-0.046	
France (FR)	-0.087	0.026	-0.011	-0.039	0.089	0.047	0.036	-0.057	
Portugal (PT)	-0.086	0.010	-0.019	-0.098	0.051	0.104	0.004	-0.053	
United Kingdom (UK)	-0.087	-0.145	0.019	-0.014	0.015	0.001	-0.063		
WG	-0.107	-0.009	0.027	-0.023	0.073	-0.001	0.072	-0.042	
EG	-0.015	0.033	-0.004	-0.001	0.000	-0.039	-0.018	0.042	n.s.
overall EU +	-0.079	-0.052	-0.012	0.011	0.023	0.105	0.048	-0.099	



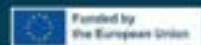


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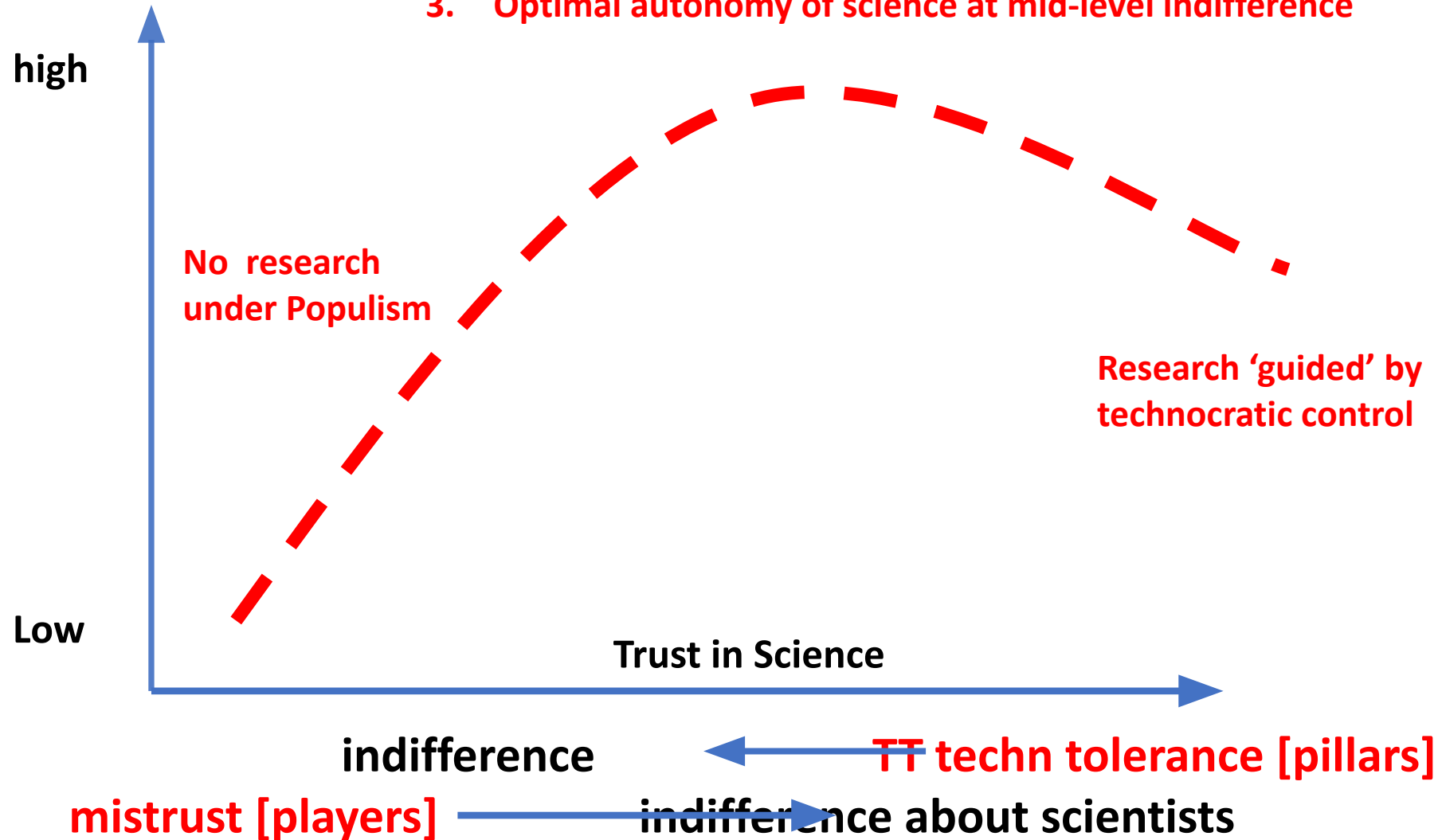


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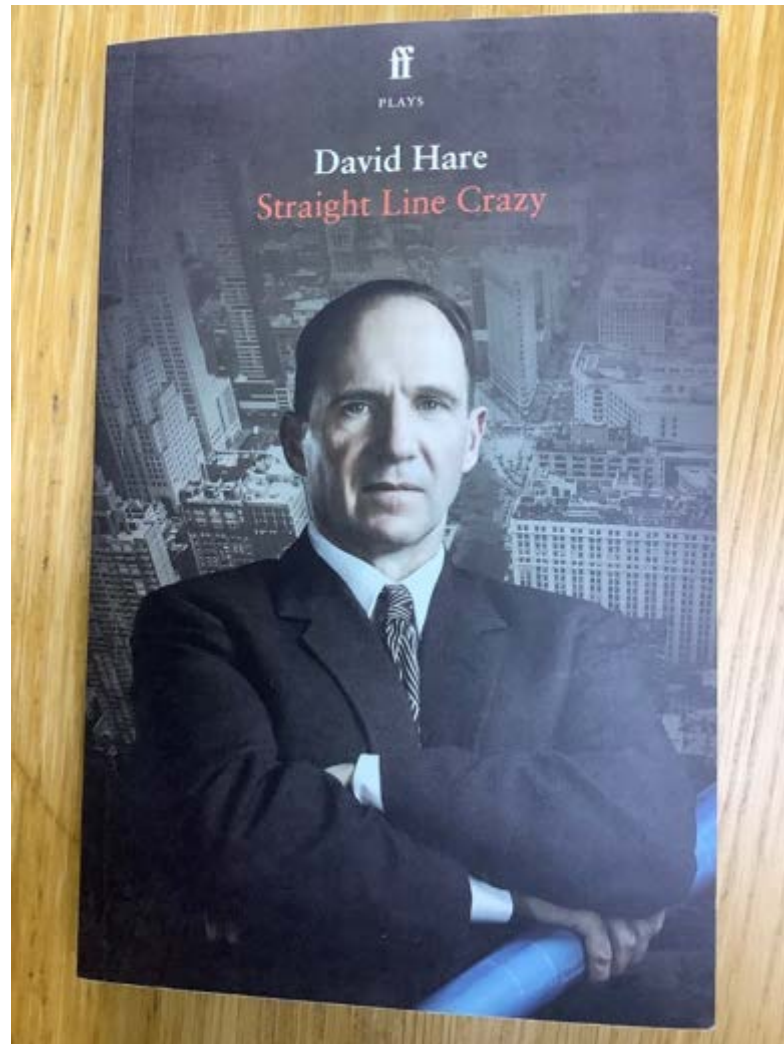
Merci
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Scientific Autonomy

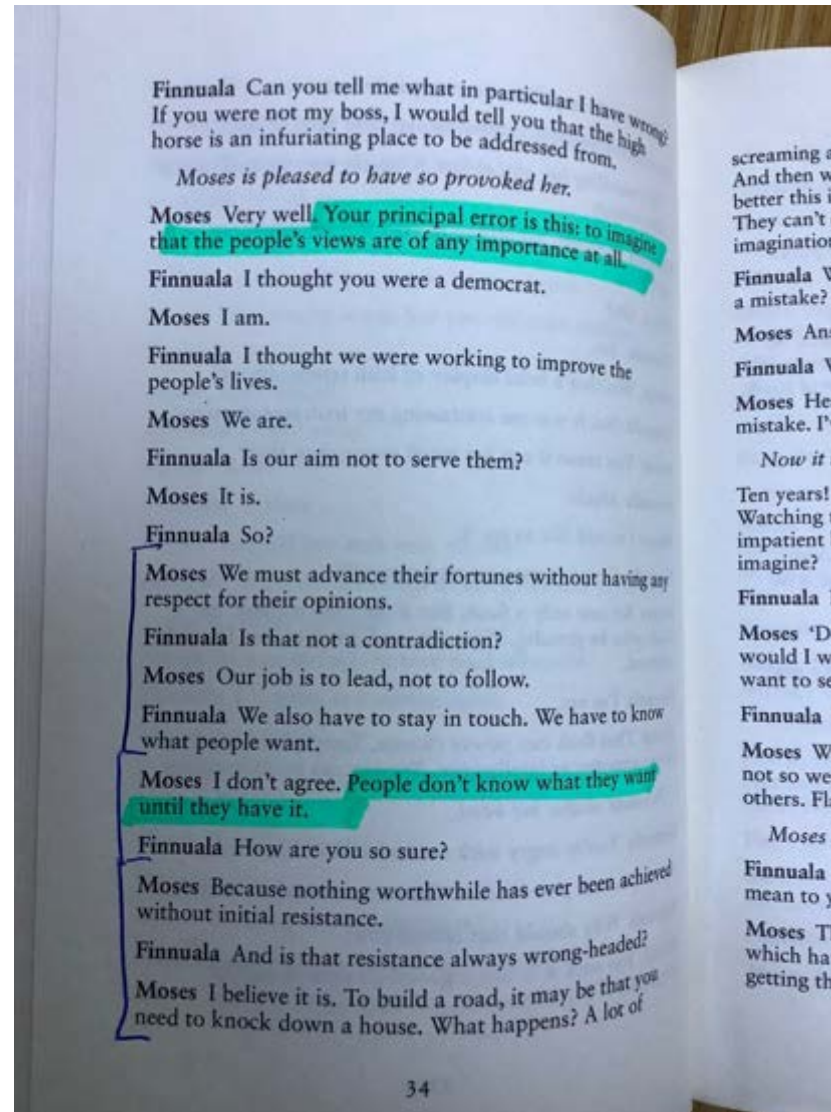
1. Trust and mistrust are two dimensions
2. mistrust demands control / TT accepts control by science
3. Optimal autonomy of science at mid-level indifference



London Theatre scene 2022about Robert Moses and Finnuala Connell on LOMEX....



London, 2022



The making
and unmaking
of a 20th C
technocrat

Technology is the continuation of politics by other means, and this politics is based on assumptions.

The play puts remarkable words into Robert Moses' mouth as he is variously challenged by his loyal assistant Finnuala Connell , e.g.

- *'Your principle error is this: to imagine that the people's views are of any importance at all'*
- *'We must advance their fortunes without having any respect for their opinion.'*
- *'People don't know what they want until they have it'*
- *'The people's resistance is always wrong-headed'*

One vividly images these statements in an opinion poll with usual Likert scale agree-disagree and wonders who might agree or disagree with these propositions?

DIE ZEIT ✓ @zeitonline · 38m

Die Verschmelzung von Autoritarismus und Tech-Wirtschaft könnte bald die liberale Demokratie zerstören. Um sie davor zu retten, darf man eines nicht sein: optimistisch. Ein Essay von Peter Dabrock



From zeit.de

Tech-Oligarchy

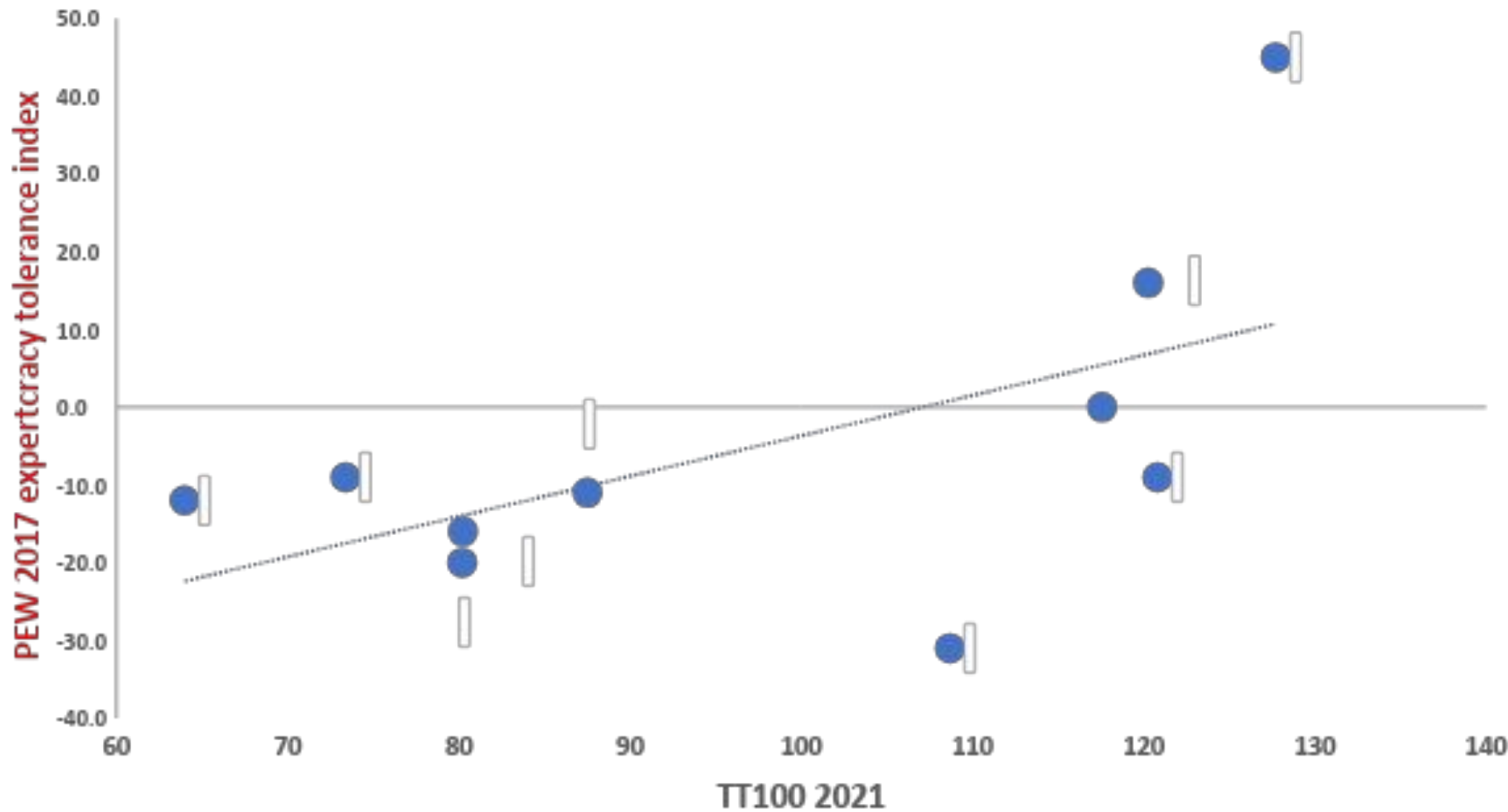
**Die Zeit
[Hamburg]
19 Sept 2025**

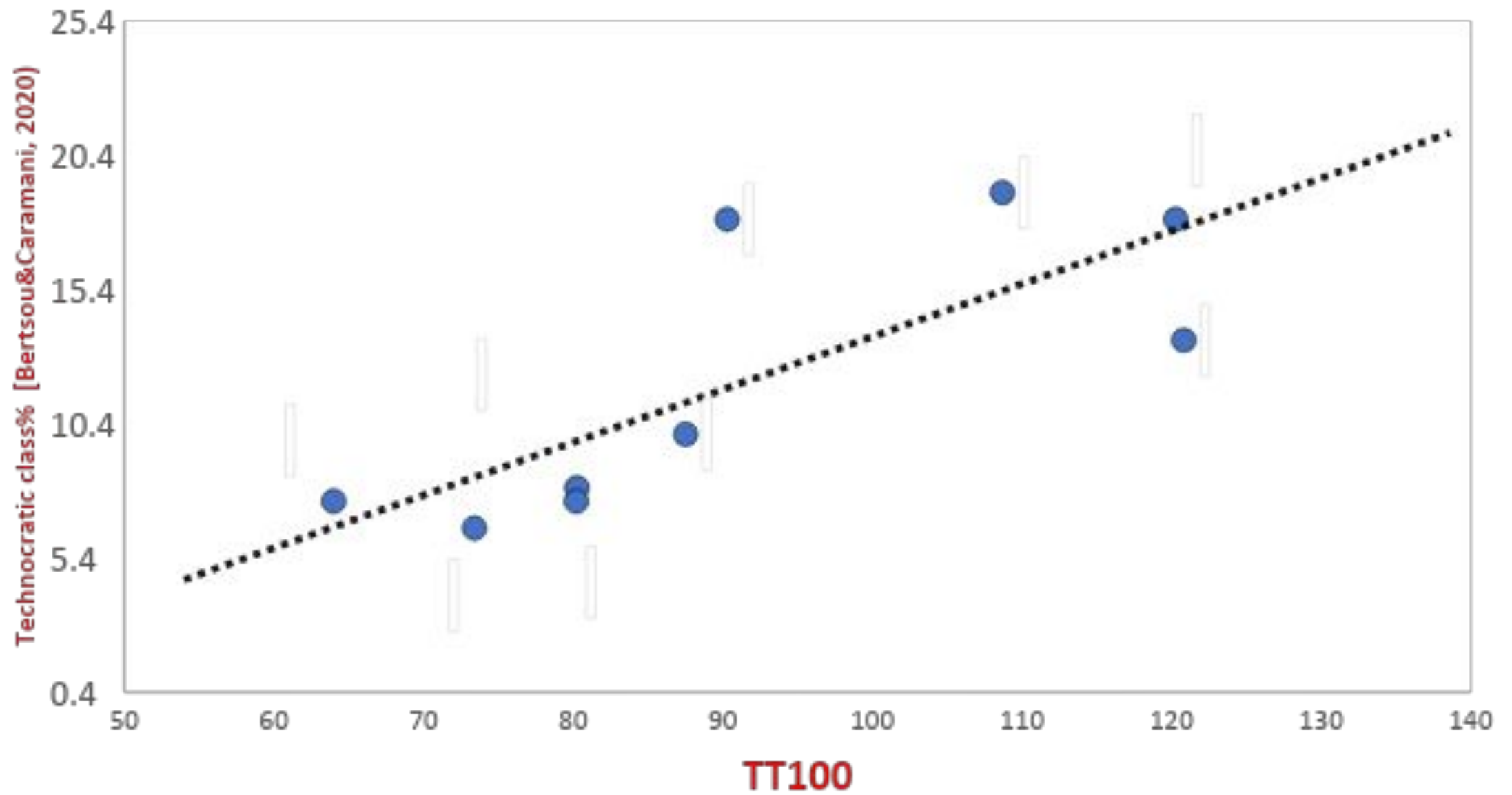
Research by conversation Recent conversations about technocracy point towards important truths

The Wengenroth Theorem: *there is no technocratic era or country, but technocracy is a constant temptation of scientific elites, what varies is whether they get away with it.*

The Nowotny Theorem: crisis and emergencies are technocratic moments; the issue is when to relax again

Correlative validation – co-variance with PEW 2017

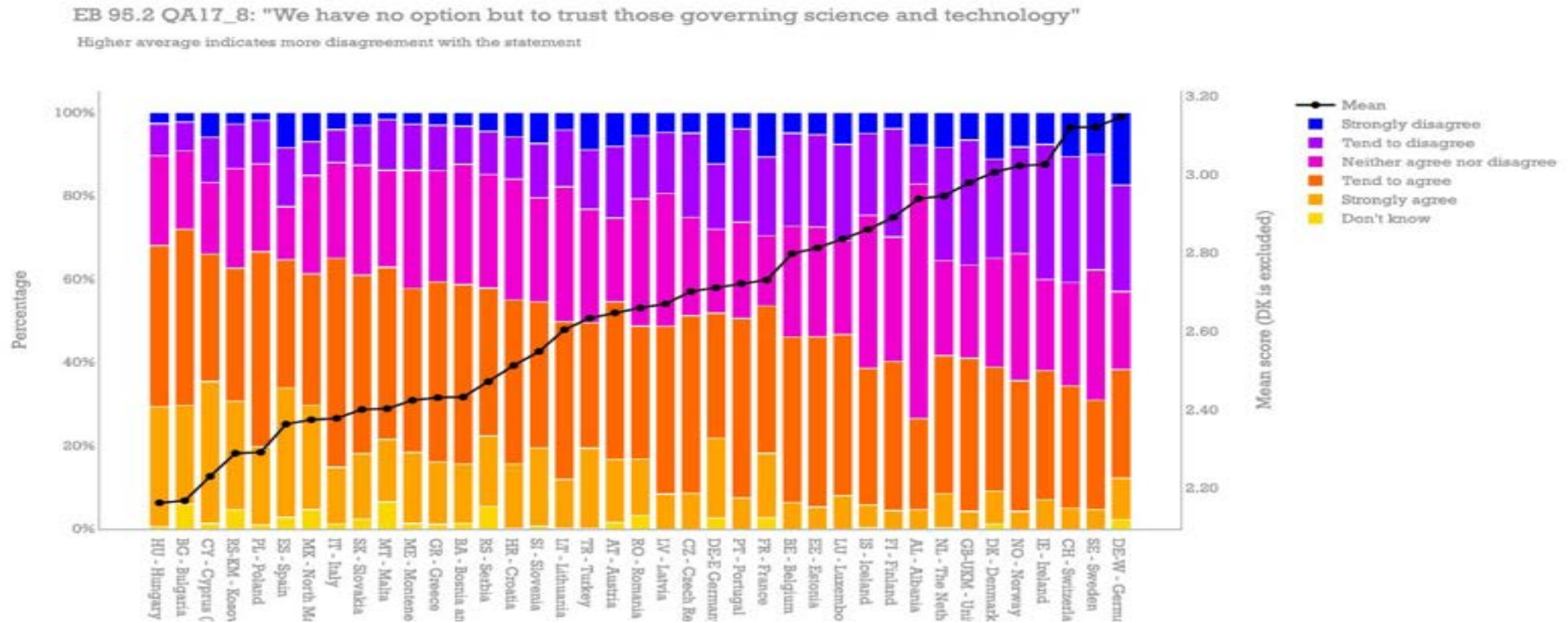




What do we need to make
plausible and clear, how
we got to these results?

selecting individual trust items EB516 2021

e.g. **no_option trust**



Aggregate metrics: Acceptance, Polarity, Ambivalence, Uncertainty

Convenience [e.g. EB2021]:
You just look at tables in reports;
compare across different items

Q417 How strongly do you agree or disagree with the following statements? : We have no option but to trust those governing science and technology

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Strongly agree	4979	13.4	13.4	13.4
Tend to agree	13379	36.0	36.0	49.5
Neither agree nor disagree	9548	25.7	25.7	75.2
Tend to disagree	8340	17.1	17.1	92.3
Strongly disagree	2340	6.3	6.3	98.6
Don't know	513	1.4	1.4	100.0
Total	37067	100.0	100.0	

Acceptance score = [agree – disagree] / [agree + disagree]

$$\text{Acceptance} = \{[13.4 + 36.0] - [17.1 - 6.3]\} / [13.4 + 36.0 + 17.1 + 6.3] = \mathbf{0.31} \quad [-1 < X < +1]$$

$$\text{Polarity} = \text{outer bracket} / \text{inner bracket} = [13.4 + 6.3] / [36.0 + 17.1] = \mathbf{0.37} \quad [-1 < x < +1]$$

$$\text{Ambivalence} = \% \text{NN responses} = \mathbf{0.26} \quad [0 < x < 1]$$

$$\text{Uncertainty} = \% \text{DK} = \mathbf{0.014} \quad [0 < x < 1]$$

Trust L1 – Pillars ‘technocracy tolerance’

TT100 - An implicit syllogism in societal space

As, because

S1: we have no-option but to confide in techno-science [agreed];

S2: truth cannot arise from industry funded research [agreed];

S3: there is no use for wider participation in decision making [agreed],

S4: we recognise the epistemic authority of science [agreed]

Therefore, thus ‘me and my fellow citizens are TT’ .

The distinction between ‘true science’ and ‘industrial research’ (S2) echoes an old **technocratic trope** against vested interests in Gov.

Trust L2 - Players [Goodwill]

Gdwill100 - An implicit syllogism in societal space:

As

- S1 Scientists are reliable [well described]
- S2 Scientists are honest [well described]

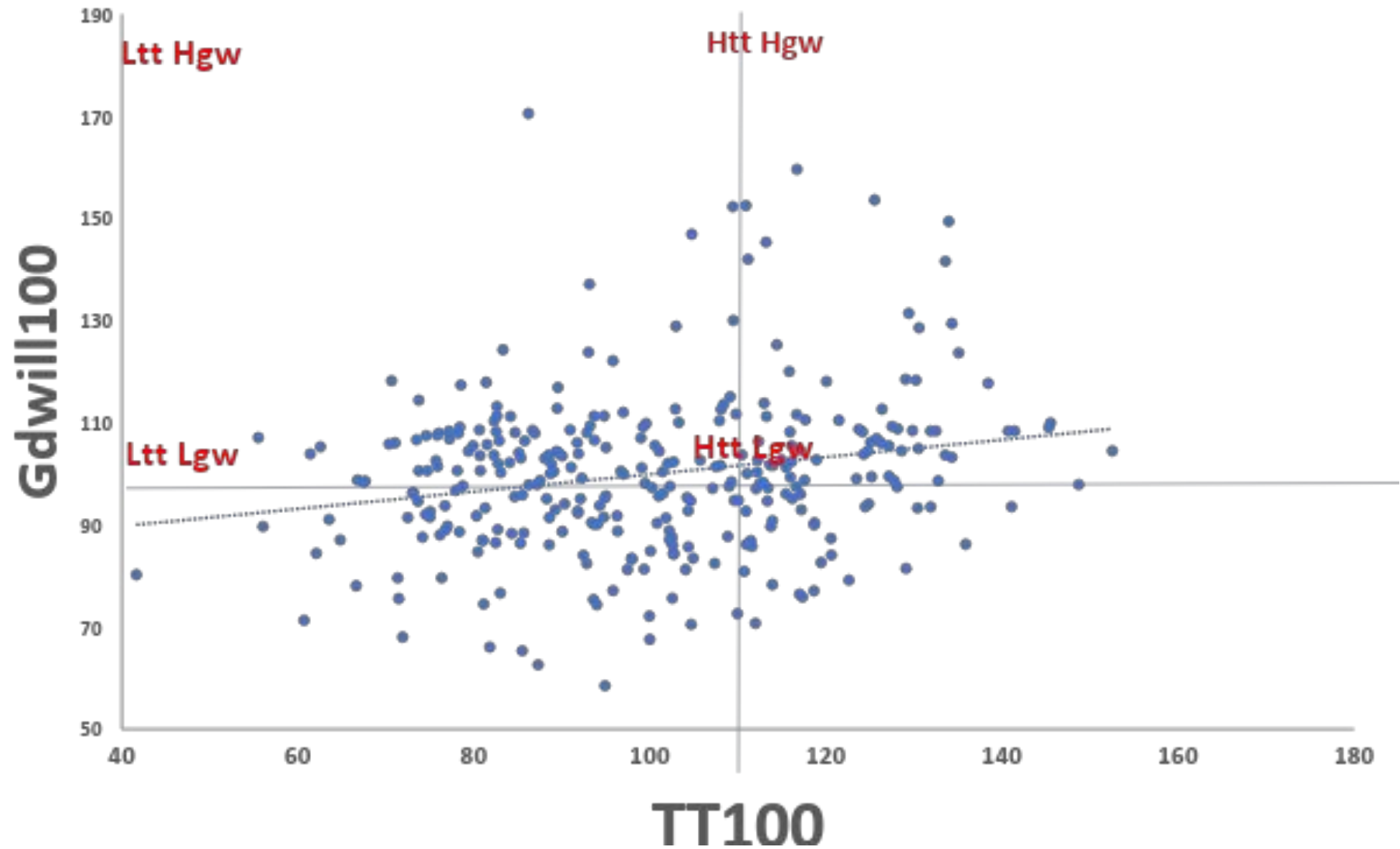
Therefore

- S3 I attend meetings about science and technology [freq.];
- S4 I take part in scientific projects as citizen scientist [freq.]

Correlative validation

	Indicator	Correlation TT100 (Pearson r)	Correlation Gdwill100 (Pearson r)
1	European innovation index (SII, 2023)	-0.74	0.12
2	Human Development Index (HDI, 2021)	-0.71	0.19
3	Gross domestic product per capita (GDP pc)	-0.65	0.17
4	Hofstede's Hierarchy and Power Distance indicators	0.56	-0.33
5	Virus conspiracy item (EB95.2, 2021)	0.89	-0.18
6	Decreasing rejection of 'Industry funded research' (2010-2021)	0.76	0.12
7	Believe in vaccine safety (WGM, 2018)	0.72	0.27
8	Climate change fact denial (EB95.2, 2021)	0.72	-0.07
9	Scientists' view RI import for public trust in science (IRIS, 2022)	0.53	-0.04
10	Scientists' adherence to RI principles to gain public trust (IRIS, 2022)	0.26	0.42
11	PEW 2017 Expertocracy is good government [YES minus NO, n=10]	0.55	0.06
12	Bertsou & Caramani (2020, latent class estimates, n=9)	0.78	-0.11

EU regions in four types [n=300+]



Micro-level Analysis

[Bauer et al. 2025]

Micro-level analysis [n=37,000]

TT =

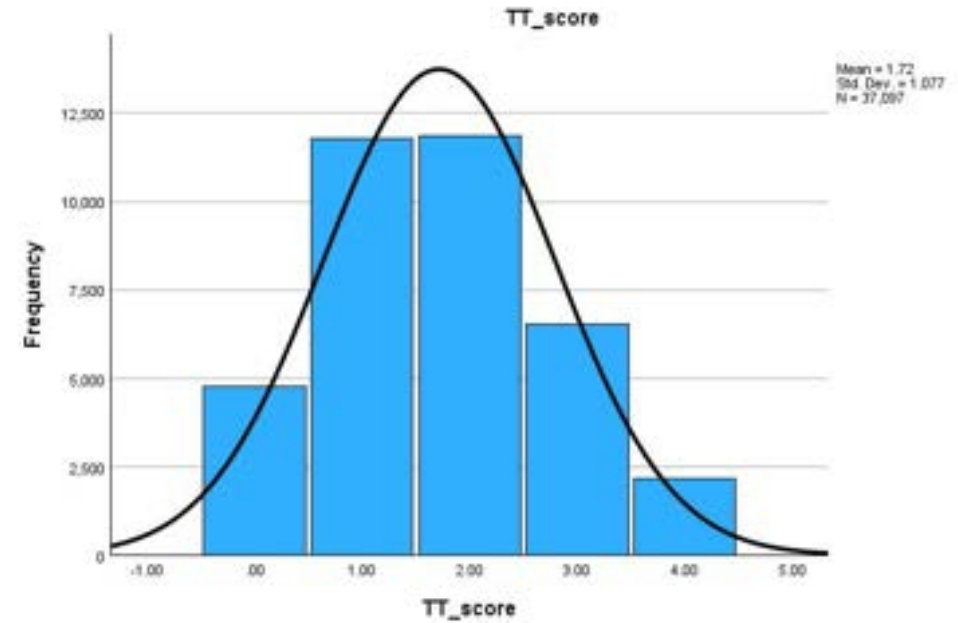
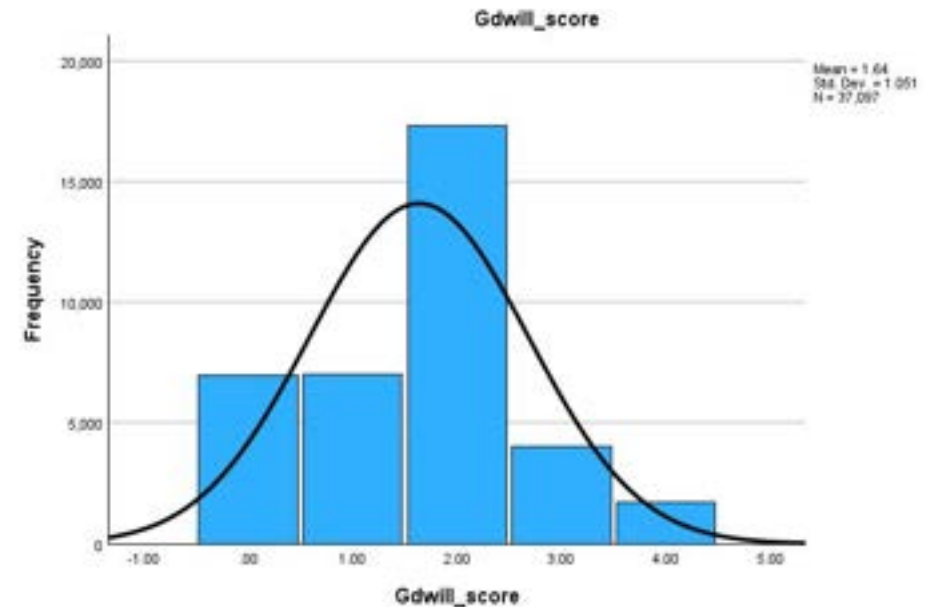
no_option + no trust in industry

+ they talk enough + know_best [binaries]

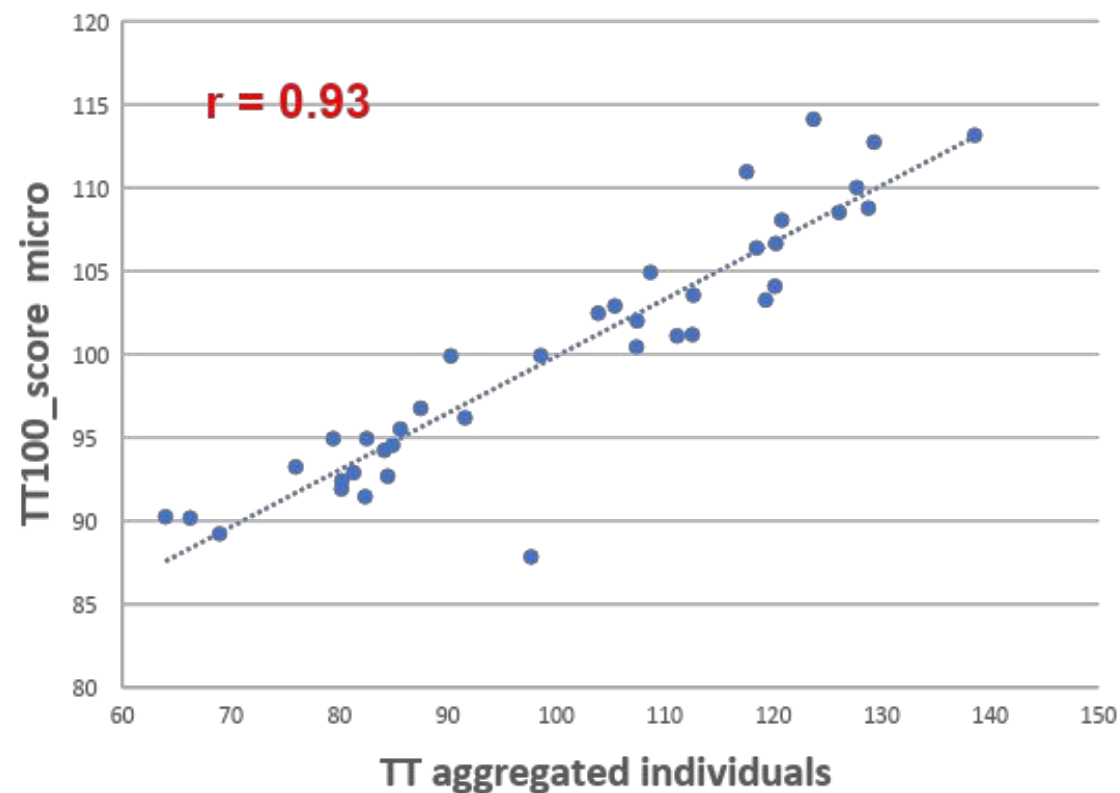
Goodwill =

reliable + honest + attend meetings

+ take part in citizen science [binaries]



		Mean				
		country	TT100_micro	Gdwill100_mi	TT100	Gdwill100
AL	1	Albania (AL)	87.8	94.3	98	101
AU	2	Austria (AT)	99.9	96.4	99	98
BE	3	Belgium (BE)	95.5	104.6	86	106
BH	4	Bosnia and Herzegovina (BA)	104.1	93.0	120	86
BG	5	Bulgaria (BG)	108.8	92.1	129	100
CR	6	Croatia (HR)	103.6	96.0	113	88
CY	7	Cyprus (CY)	114.1	91.8	124	83
CZ	8	Czech Republic (CZ)	93.2	102.9	76	100
DK	9	Denmark (DK)	92.7	105.4	84	114
ET	10	Estonia (EE)	94.9	104.7	79	105
FI	11	Finland (FI)	94.6	104.1	85	103
FR	12	France (FR)	96.8	91.7	88	78
DD	13	Germany			73	89
DE	14	EG	96.2	87.2	92	66
DW	15	WG	89.2	93.8	69	94
GR	16	Greece (GR)	104.9	94.7	109	84
HU	17	Hungary (HU)	110.0	99.7	128	102
IC	18	Iceland (IS)	91.5	107.0	82	115
IR	19	Ireland (IE)	90.2	107.1	66	113
IT	20	Italy (IT)	108.1	98.6	121	96
KO	21	Kosovo (KV)	113.2	106.7	139	134
LT	22	Latvia (LV)	102.9	100.7	105	92
LI	23	Lithuania (LT)	102.0	107.0	107	114
LX	24	Luxemburg (LU)	94.9	103.1	83	103
ML	25	Malta (MT)	101.1	94.6	111	105
MO	26	Montenegro (ME)	108.5	90.6	126	82
NM	27	Macedonia (MK)	106.4	95.0	118	87
NO	28	Norway (NO)	94.2	106.2	84	110
PO	29	Poland (PL)	106.7	96.7	120	97
PT	30	Portugal (PT)	99.9	108.7	90	119
RO	31	Romania (RO)	101.2	96.3	113	92
SR	32	Serbia (RS)	103.3	89.8	119	77
SL	33	Slovakia (SK)	100.4	93.7	107	91
SV	34	Slovenia (SI)	102.5	95.0	104	81
ES	35	Spain (ES)	111.0	98.3	118	100
SW	36	Sweden (SE)	92.4	105.1	80	105
CH	37	Switzerland (CH)	92.9	99.4	81	91
NL	38	Netherlands (NL)	91.9	103.7	80	112
TK	39	Turkey (TR)	112.7	122.3	129	171
UK	40	United Kingdom (UK)	90.2	108.7	64	117
21/01/2026		Total	100.0	100.0		



Results of regressions

Dep Var: TT100_micro

The more educated, the less TT

The older, the less TT

women are less TT

[the more urban, the more TT]

The more right, the more TT

the more religious, the more TT

the more unhappy with democracy at home, the more TT

the more unhappy with EU democracy, the less TT

Dep Var: Gdwill100_micro

The more educated, the more Gdwill

the older, the less Gdwill

women have less Gdwill than men

the more urban, the more Gdwill

the more right, the less Gdwill

the more religious, the less Gdwill

the more unhappy with democracy at home, the less Gdwill

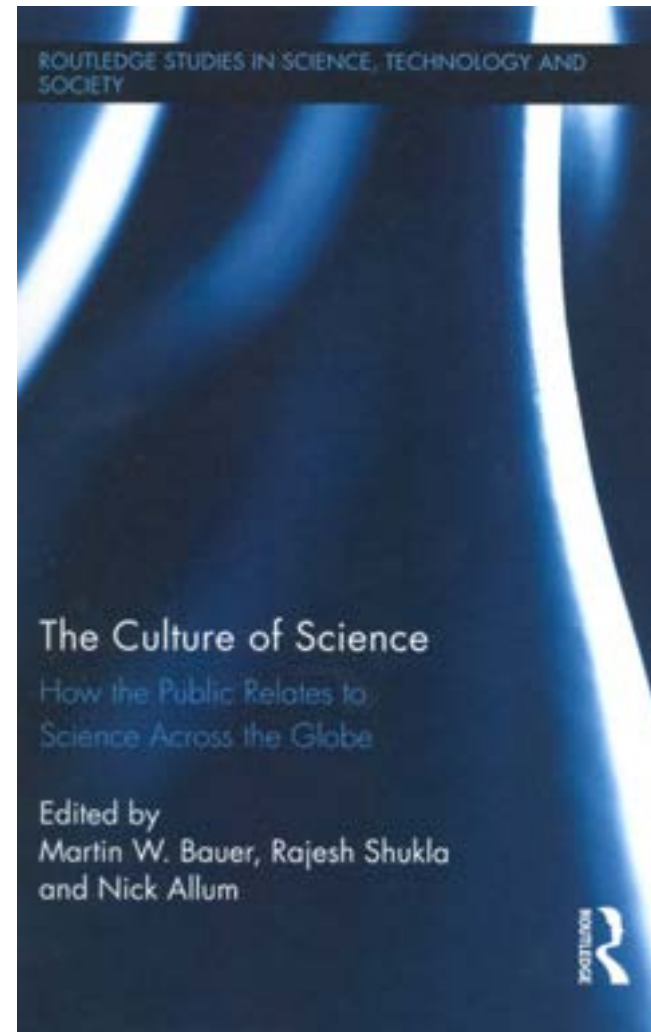
the more unhappy with democracy EU, the less Gdwill

**The research programme
Unfolding**

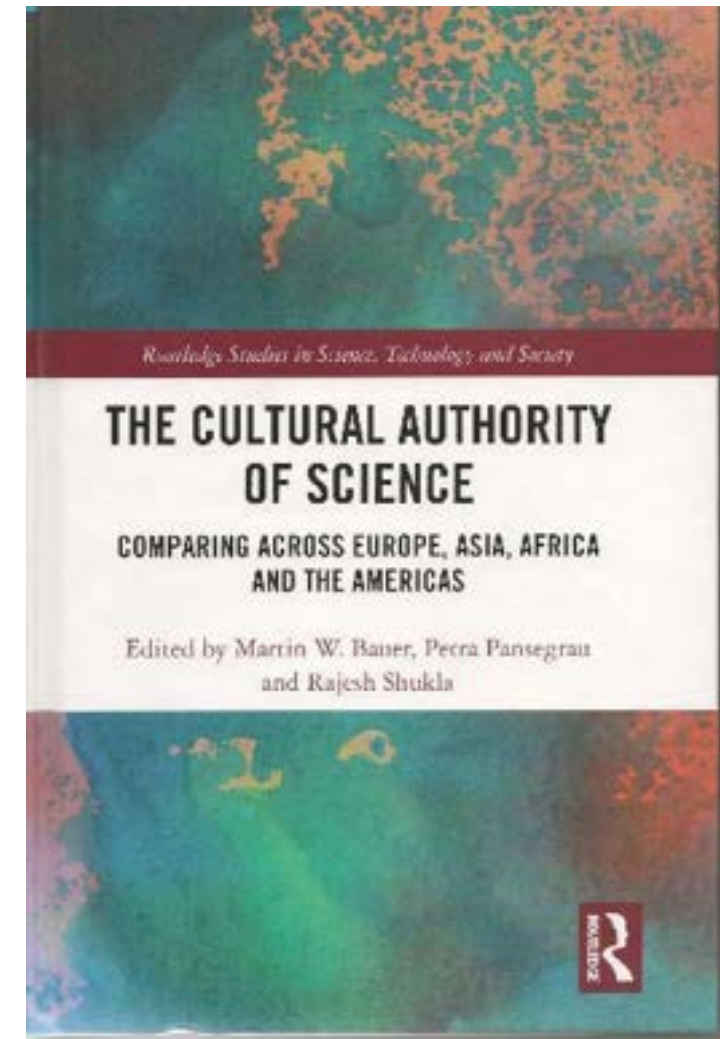
**Start: Royal Society of
London Conference 2007**

Network MACAS

**Mapping the Cultural
Authority of Science**



2012



2019



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		trust_region		LttHgw	HttHgw	Total	
		LttlGw	HttlGw				
14	FR	16	3	1	1	21	
9	DE	11	1	3	1	16	
12	ES	4	4	2	7	17	
15	GR	2	6	0	2	10	
10	DK	0	0	5	0	5	
31	PT	0	0	5	0	5	74
6	CH	7	0	0	0	8	
34	SI	6	4	0	2	12	
2	AT	5	1	1	2	9	
1	AL	5	0	0	7	12	
30	PL	3	9	0	4	16	
3	BE	3	0	7	1	11	
8	CZ	3	0	5	0	8	
32	RO	2	4	0	2	8	
29	NO	2	0	5	0	7	
11	EE	2	0	3	0	5	
13	FI	2	0	2	0	4	
23	LU	2	0	2	0	4	
20	IT	1	8	1	7	17	
26	MK	1	6	0	2	9	
24	LV	1	4	0	1	6	
25	ME	1	1	0	1	3	
28	NL	1	0	11	0	12	
18	IE	1	0	7	0	8	
36	TR	1	0	6	15	22	
33	RS	0	4	3	0	7	
17	HU	0	3	0	4	7	
4	BG	0	3	0	3	6	
7	CY	0	4	0	1	4	
5	BH	0	3	0	0	3	
35	SK	0	2	0	2	4	
16	HR	0	2	0	0	2	
22	LT	0	1	3	6	10	
19	IS	0	0	2	0	2	
27	NA	0	0	1	0	1	
21	KV	0	0	0	7	7	
Total		82	73	75	78	308	

1 = Ltt Lgw	2 = Htt Lgw	3 = Ltt Hgw	4 = Htt Hgw
AL021 - Elbasan	AT21 - Kaernten	AT12 - Niederösterreich	AL011 - Diber
AL025 - Berat	BG32 - Severen beitrakn	BE10 - Region de Bruxelles-Capitale / Brussels Hoofdstedelijk Gewest	AL012 - Durres
AL032 - Fier	BG33 - Severistokhen	BE25 - Prov. Antwerpen	AL013 - Fier
AL033 - Gjirokastra	BG34 - Yugoslochen	BE24 - Prov. Vlaams-Brabant	AL014 - Lezhe
AL035 - Vlore	BH01 - Federation of Bosnia and Herzegovina	BE31 - Prov. Brabant wallon	AL015 - Shkoder
AT22 - Steiermark	BH02 - Republika Srpska	BE32 - Prov. Hainaut	AL022 - Tirane
AT31 - Oberösterreich	BH03 - Brecljo District	BE33 - Prov. Liege	AL034 - Korca
AT32 - Salzburg	CY08 - Lefkosa/Nicosia	BE35 - Prov. Namur	AT11 - Burgenland
AT33 - Tirol	CY03 - Ammochostos/Farmagusta	C201 - Praha	AT13 - Wien
AT34 - Vorarlberg	CY04 - Larnaka/Larnaca	C202 - Stredni Cesky	BE23 - Prov. Oost-Vlaanderen
BE22 - Prov. Limburg (BE)	CY05 - Lemesos/Limassol	C204 - Seve rosped	BE31 - Severozapaden
BE25 - Prov. West-Vlaanderen	CY06 - Lemesos/Limassol	C205 - Seve roychod	BE41 - Yugoslopaden
BE34 - Prov. Luxembourg (BE)	C206 - Jihovýchod	C206 - Jihovýchod	BE42 - Vuzhen beitrakn
CH01 - Region lemanique	C207 - Jihovýchod	C207 - Jihovýchod	CY06 - Pafos/Pafos
CH02 - Espace Mittelland	C208 - Jihovýchod	C208 - Jihovýchod	
CH03 - Nordwestschweiz	C209 - Jihovýchod	C209 - Jihovýchod	
CH04 - Zurich	C210 - Jihovýchod	C210 - Jihovýchod	
CH05 - Ostschweiz	C211 - Jihovýchod	C211 - Jihovichod	
CH06 - Zentralschweiz	C212 - Jihovichod	C212 - Jihovichod	
CH07 - TESS	C213 - Jihovichod	C213 - Jihovichod	
CZ03 - Jihocapad	C214 - Jihovichod	C214 - Jihovichod	
CZ07 - Stredni Morava	C215 - Jihovichod	C215 - Jihovichod	
CZ08 - Moravskoslezsko	C216 - Jihovichod	C216 - Jihovichod	
EE01 - Raplaht	C217 - Jihovichod	C217 - Jihovichod	
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