Hypotheses wave 1 short answers

H1

All policy attributes (policy costs (associated tax increase), time of policy implementation, resulting energy independence and estimated CO2 reduction) significantly predict policy decisions.

After model comparison, a model with random slopes instead of random intercept was chosen since the coefficients remain almost identical and Conditional R2 significantly improves (R2 = .788 versus R2 = .484). Furthermore, random slopes are needed to analyte H1c.

The model chose

The model with random slopes supports Hypothesis 1 (as do all alternative models including the preregistered one, estimates only minimally change and the order of importance remains the same).

All four attributes: associated tax increase, time of policy implementation, resulting energy independence and estimated CO2 reduction significantly predicted policy decisions.

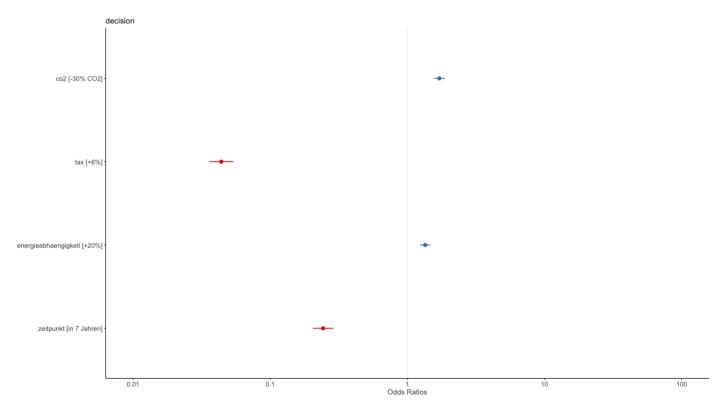
Controlling for demographics does not change these results. An age effect can be observed with differences between the highest and youngest age groups, with the higher age group being less likely to accept policy decisions than the younger ones. The more people identified with "right" versus "left" politics the less likely they were to accept policies. And the more they trusted in the government the more likely they were to accept policies

		decision	
Predictors	Odds Ratios	CI	p
(Intercept)	4.26	3.64 – 4.99	<0.001
co2-30% CO2	1.71	1.56 - 1.87	<0.001
tax (1% vs 6%): +6%	0.04	0.04 - 0.05	<0.001
energyindependence (10% vs 20%): +20%	1.35	1.24 – 1.47	<0.001
implementation (in 1 vs 7 years): in 7 Jahren	0.24	0.20 - 0.29	<0.001
Random Effects			
σ^2	3.29		
τ ₀₀ id	5.66		
τ _{11 id.co2-30% CO2}	0.57		
T11 id.tax+6%	9.66		
T ₁₁ id.energieabhaengigkeit+20%	0.21		
T11 id.zeitpunktin 7 Jahren	7.79		
ρ01	-0.03		
	-0.30		
	-0.08		
	-0.33		
ICC	0.74		
N id	1628		
Observations	26048		
Marginal R ² / Conditional R ²	0.195 / 0.788		

H₁a

The policy attributes costs and CO2 reduction potential will receive most relative importance in participants' policy acceptance decisions

As can be taken from H1: Tax has the highest OR / coefficient followed by time of policy implementation and only then CO2 reduction potential.



H₁b

Climate change concern will significantly predict the number of renewable energy policy choices in that higher climate change concern scores are associated with a higher likelihood to accept renewable energy policies. This effect is assumed to be especially pronounced for policies that will be implemented in the near future (implementation 1 year) compared to policies that will be implemented in the far future (implementation in 7 years).

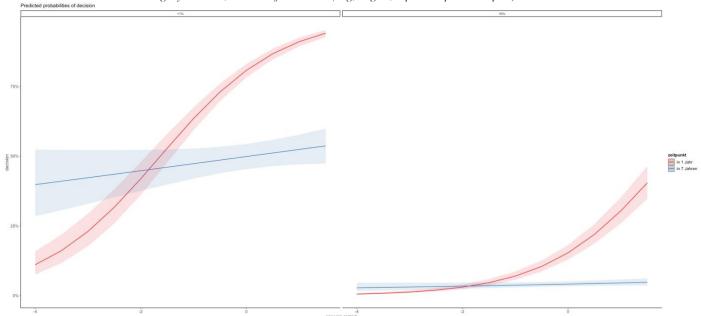
Results support H1b. Climate change concern was significantly positively associated with support of RE policies. Furthermore, an interaction between climate change concern and time of implementation emerged such that those with high climate change concern were much more likely to accept immediate policies versus distant policies, whereas the opposite pattern could be seen for those with very low cc concern who were more likely to accept distant policies.

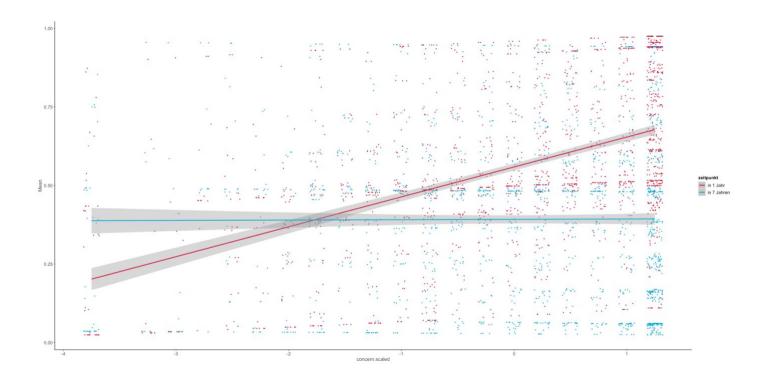
Controlling for demograhics reveals the same picture.

		decision	
Predictors	Odds Ratios	CI	p
(Intercept)	4.19	3.59 – 4.89	<0.001
co2-30% CO2	1.69	1.54 - 1.85	<0.001
tax (1% vs 6%): +6%	0.04	0.04 - 0.05	<0.001
energyindependence (10% vs 20%): +20%	1.39	1.28 – 1.52	<0.001
implementation (in 1 vs 7 years): in 7 Jahren	0.24	0.20 - 0.28	<0.001

concern.scaled	2.41	2.18 - 2.67	<0.001
zeitpunktin 7 Jahren:concern.scaled	0.46	0.40 - 0.52	<0.001
Random Effects			
σ^2	3.29		
τ ₀₀ id	5.25		
τ ₁₁ id.co2-30% CO2	0.59		
τ11 id.tax+6%	9.74		
τ ₁₁ id.energieabhaengigkeit+20%	0.19		
τ11 id.zeitpunktin 7 Jahren	6.83		
ρ01	-0.26		
	-0.33		
	-0.25		
	-0.23		
ICC	0.72		
N id	1628		
Observations	26048		
Marginal R ² / Conditional R ²	0.239 / 0.788		

Caveat: climate concern is highly skewed, no transformation (log, log10, sqrt or square helped) —
Predicted probabilities of decision





H₁c

Climate change concern will significantly predict the importance participants assigned to the policy CO2 emission reduction potential in that higher climate change belief scores are associated with higher relative importance assigned to CO2 emission reduction potential.

Individual climate change concern predicted the individual importance placed on the Co2 reduction attribute such that higher concern was associated with a higher value for the CO2 coefficient.

With removing outliers (1,5*interquartile range) this associations stays significant and is slightly smaller (0.044 versus 0.0543)

Political orientation was negatively associated with importance placed on the CO2 attribute, such that those who identified with "right" politics had lower importance values.

	CO2 attribute importance				
Predictors	Estimates	CI	p		
(Intercept)	0.570	0.469 - 0.670	<0.001		
climate change concern (scaled)	0.054	0.039 - 0.070	<0.001		
gender: male	-0.005	-0.040 - 0.029	0.768		
age30-39	-0.015	-0.072 - 0.042	0.610		
age40-49	0.004	-0.053 - 0.061	0.885		
age50-59	0.036	-0.020 - 0.093	0.202		
age60-80	0.013	-0.040 - 0.066	0.634		
income: <1'500€ <3'100CHF	-0.049	-0.102 - 0.004	0.070		
income: > 4'000€ >5'900 CHF	-0.001	-0.049 - 0.047	0.972		
income: 2'500- 4'000€ <4'300- 5'899CHF	-0.033	-0.080 - 0.015	0.175		
countrySwitzerland	0.009	-0.025 - 0.044	0.596		

education: obligatory school	0.018	-0.038 – 0.075	0.520	
education: middle school	0.042	-0.019 - 0.102	0.175	
education: degree	0.065	0.006 - 0.124	0.031	
politicalorientation_1	-0.021	-0.0310.012	<0.001	
trust.gov	0.006	-0.009 - 0.021	0.419	
Observations	1628			•
R^2 / R^2 adjusted	0.082 / 0.0	73		
0.8				
Predicted values of CO2 attribute importance			concern.scaled	·
1.00				
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4		į.	climate change concern	scaled) ō

H2

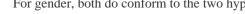
The complexity of cognitive representations of energy behaviors will be captured with two dimensions, reflecting impact direction (negative vs. positive impact for the climate) and impact strength (low vs. high impact on the climate), with impact direction being the most dominant dimension

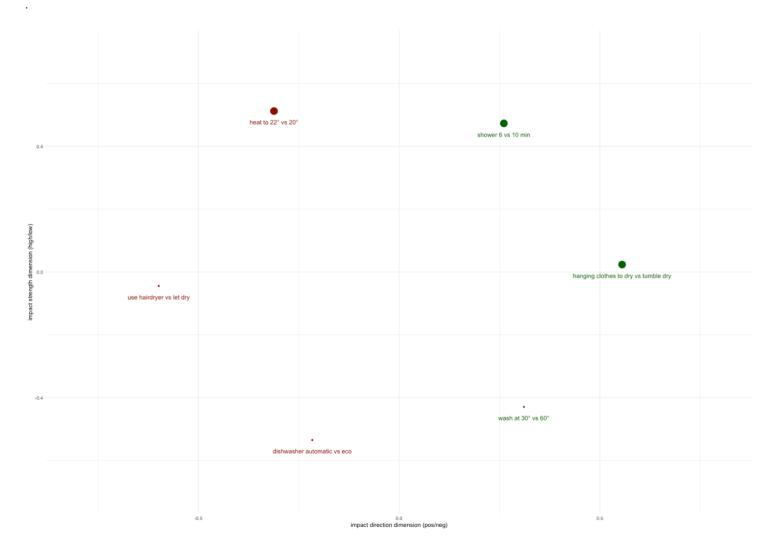
Confirmatory individual difference scaling shows that the judgments did conform to the two dimensions impact direction and impact strength.

Mair, Borg, Rusch (2016) advise to do subsample analysis to check the replicability.

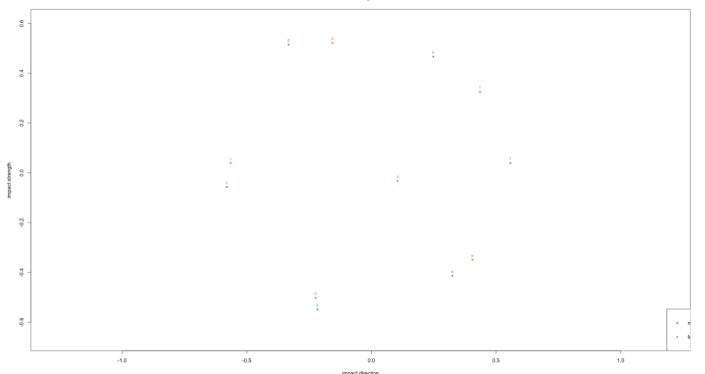
For country, the two MDS models are virtually identical. For education the two MDS models are virtually identical. For device frequency the two MDS models are virtually identical

For gender, both do conform to the two hypothesized dimensions, however the female MDS model shows some differences.





Procrustes Configuration Plot

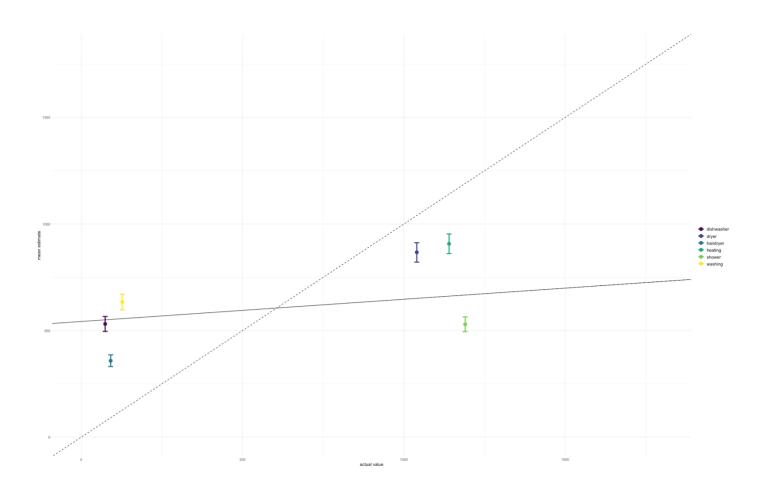


Participants will underestimate the energy consumption associated with energy saving actions.

Mean estimation bias was slightly negative, indicating that overall, averaged across the 6 curtailment behaviors (of which the 3 high-impact behaviors are underestimated and the three low-impact behaviors are overestimated) people tended underestimate slightly more.

In other words, people tended to underestimate KWh overall by a factor of 1.3.

If this is further divided into the low and high impact behaviors this mean that low impact behaviors were overestimated by a factor of about 2 and high impact behaviors were underestimated by a factor of about 3.5



H3a Frequency of use will predict the accuracy of energy action estimates.

Frequency of use was associated with energy action estimates such that higher frequency of use was associated with a larger mean error in estimation. This suggests that higher frequency of use was associated with less accurate estimates.

A further posthoc analysis of the mean estimation error (that takes into account the sign of the estimation unlike the mean estimation error), showed that frequency of use was negatively associated with estimation bias, such that higher frequency was related to more <u>underestimation</u>

	mea	mean absolute error		
Predictors	Estimates	CI	p	
(Intercept)	0.66	0.60 - 0.73	< 0.001	

gender: female	0.02	-0.01 - 0.04	0.217
age30-39	0.01	-0.03 - 0.06	0.582
age40-49	-0.04	-0.08 - 0.01	0.083
age50-59	-0.05	-0.100.01	0.017
age60-80	-0.05	-0.090.01	0.017
country: Switzerland	0.00	-0.02 - 0.03	0.750
income<1'500- 2'499€ 3'100-4'299CHF	-0.03	-0.08 - 0.01	0.107
income: 2'500- 4'000€ <4'300- 5'899CHF	-0.08	-0.120.04	<0.001
income: > 4'000€ >5'900 CHF	-0.09	-0.130.05	<0.001
climate change concern	-0.02	-0.030.01	<0.001
mean device frequency	0.04	0.01 - 0.07	0.003
Observations	1522		_

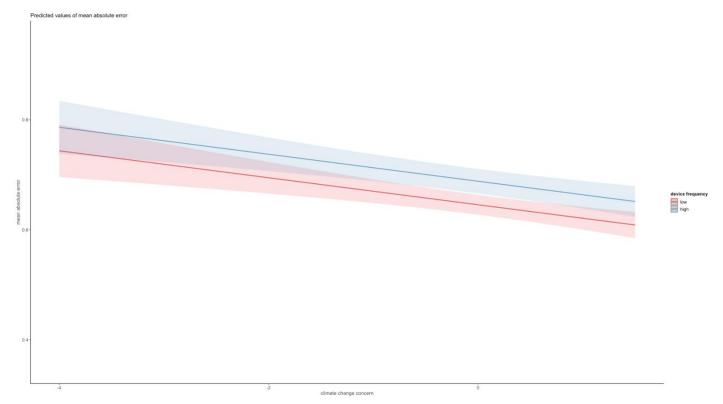
 R^2 / R^2 adjusted

0.049 / 0.042

mean abso

2.0 mean device frequer 5

3.0



H₄a

Climate change concern as well as over-versus underestimation in the accuracy task will significantly predict the number of climate-friendly choices in the product choice task in that higher climate change concern scores and overestimation are associated with a higher likelihood to choose the more energy efficient product options.

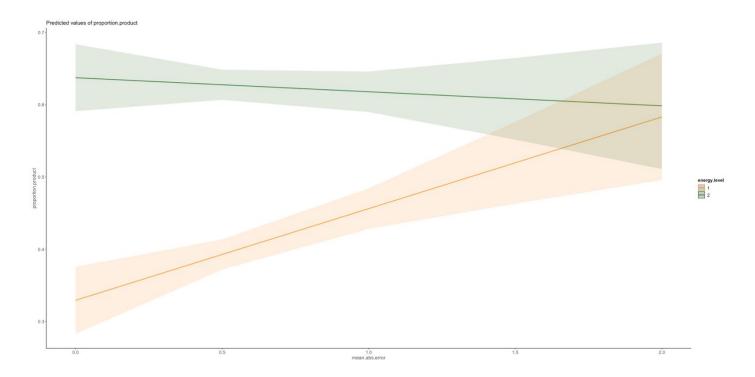
Climate concern had a significant positive effect on individual product choice, such that higher climate change concern was associated with a higher likelihood to choose the environmentally friendly product. Estimation bias by itself was not significantly associated with product choices, the interaction with the choice context however revealed that those overestimating more had a slightly higher chance of choosing the pro-environmental product when the energy efficiency differences between products in the choice was high. *However, big price differences made it less likely for those overestimating more to choose the pro-environmental product.*

Analyzing judgment error (inaccuracies disregarding the sign of the inaccuracy) revelaed that those with a more accurate understanding (low judgment error) reacted strongly to energy efficiency differences such that they were much more likely to choose the pro-environmental product when the choice was between two product differing more in energy efficiency, whereas those displaying less accurate kWh estimates seemed to not to react to these differences, or less strongly.

CHOICE

Odds Ratios	CI	p	
0.11	0.03 - 0.34	<0.001	
0.49	0.27 - 0.86	0.013	Predictors
2.87	1.67 – 4.93	<0.001	(Intercept)
1.23	1.07 – 1.41	0.003	price level [2]
1.00	0.75 - 1.35	0.991	energy level [2]
2.14	1.57 - 2.93	<0.001	climate concern
1.12	0.99 – 1.26	0.061	mean abs error
1.05	0.51 – 2.12	0.903	Sum policy
1.05	0.81 - 1.38	0.708	country [Switzerland]
1.15	0.72 - 1.83	0.549	trust gov
1.31	0.83 - 2.06	0.240	C
1.26	0.81 – 1.95	0.313	V2
1.22	0.80 - 1.86	0.346	gender [male]
1.16	0.76 – 1.77	0.482	age30-39
2.06	1 42 – 3 00	<0.001	age40-49
			age50-59
1.49	1.04 – 2.12	0.029	age60-80
0.89	0.62 - 1.27	0.516	income [<1'500€
1.61	0.99 – 2.61	0.053	<3'100CHF]
1.26	0.90 - 1.78	0.176	income [> 4'000€ >5'9 CHF]
0.33	0.26 - 0.43	<0.001	income [2'500- 4'000€ <4'300- 5'899CHF]
0.95	0.85 - 1.06	0.326	education [middle scho
0.67	0.52 - 0.87	0.002	education [no formal education]
1.29	1.00 – 1.64	0.046	education [obligatory school]
1.18	1.07 – 1.31	0.002	price level [2] × energy level [2]
0.22	0.16 - 0.28	<0.001	price level [2] × climat concern
0.71	0.55 - 0.92	0.010	price level [2] × mean abs error
			price level [2] × Sum
3.29			policy
3.78			energy level [2] × mea
0.53			abs error
1139			
	0.11 0.49 2.87 1.23 1.00 2.14 1.12 1.05 1.05 1.15 1.31 1.26 1.22 1.16 2.06 1.49 0.89 1.61 1.26 0.33 0.95 0.67 1.29 1.18 0.22 0.71	0.11	0.11

		choice	
Predictors	Odds Ratios	CI	p
(Intercept)	0.07	0.02 - 0.26	<0.001
price level [2]	0.23	0.11 - 0.47	<0.001
energy level [2]	6.66	3.36 – 13.20	<0.001
climate concern	1.22	1.06 – 1.40	0.005
mean abs error	1.31	0.64 - 2.67	0.454
Sum policy	1.03	0.98 - 1.07	0.246
country [Switzerland]	2.12	1.55 – 2.88	<0.001
trust gov	1.12	0.99 – 1.26	0.076
V2	1.09	0.54 - 2.21	0.812
gender [male]	1.07	0.82 - 1.40	0.634
age30-39	1.17	0.74 - 1.86	0.503
age40-49	1.33	0.85 - 2.09	0.218
age50-59	1.31	0.84 - 2.04	0.240
age60-80	1.29	0.84 - 1.97	0.243
income [<1'500€ <3'100CHF]	1.15	0.76 – 1.75	0.511
income [> 4'000€ >5'900 CHF]	2.07	1.42 – 3.01	<0.001
income [2'500- 4'000€ <4'300- 5'899CHF]	1.52	1.06 – 2.17	0.022
education [middle school]	0.87	0.61 - 1.25	0.456
education [no formal education]	1.56	0.96 – 2.53	0.071
education [obligatory school]	1.24	0.88 – 1.74	0.224
price level [2] × energy level [2]	0.33	0.25 - 0.43	<0.001
price level [2] × climate concern	0.94	0.84 - 1.05	0.249
price level [2] × mean abs error	3.61	1.99 – 6.52	<0.001
price level [2] × Sum policy	1.00	0.97 – 1.04	0.856
energy level [2] × mean abs error	0.33	0.18 – 0.59	<0.001



H4bIndividual weights of the impact strength dimension will predict the number of climate-friendly choices in the product choice task in that higher scores on the impact strength dimension variable are associated with a higher likelihood to choose the more energy efficient product options.

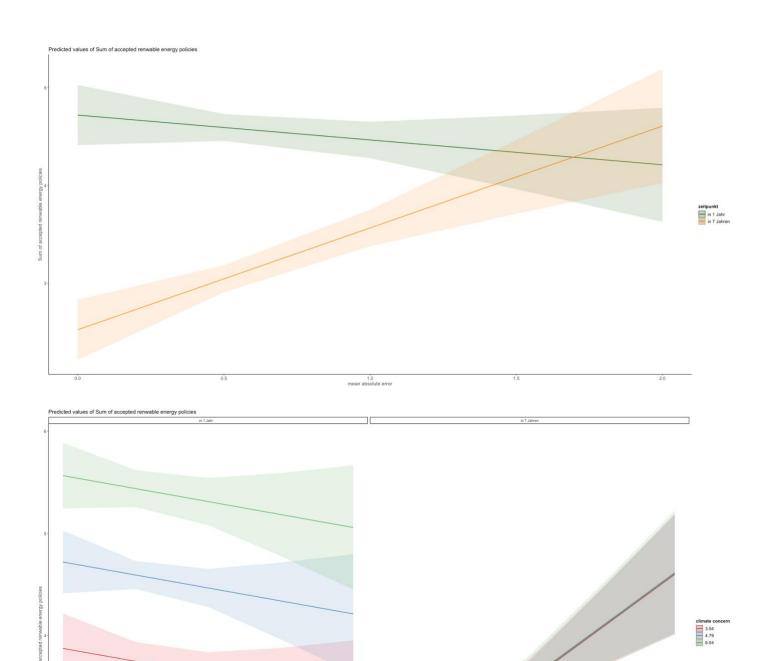
		choice	
Predictors	Odds Ratio	s CI	p
(Intercept)	1.16	0.60 - 2.25	0.658
est binary [over]	0.93	0.73 - 1.18	0.534
concern scaled	1.30	1.18 – 1.43	<0.001
V2	0.96	0.52 - 1.77	0.886
country [Switzerland]	0.10	0.08 - 0.13	<0.001
Random Effects			
σ^2	3.29		
700 ResponseId	3.75		
ICC	0.53		
N ResponseId	1522		
Observations	10654		
Marginal R ² / Conditional R ²	0.164	0.609	

The individual weight placed on the impact strength dimension was not related to pro-environmental product choices

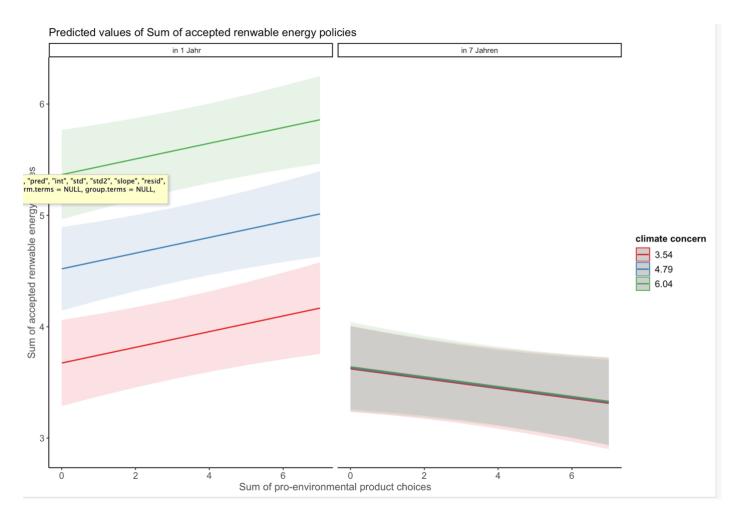
Not pre-registered

Predicting energy policy support
Connection judgment and policy decision with interaction time* concern; time*sum.product & time*judgment error

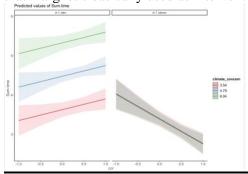
	Sum of accepted renwal energy policies		
Predictors	Estimates	CI	p
(Intercept)	1.02	0.17 - 1.87	0.018
gender: male	0.13	-0.05 – 0.30	0.156
age30-39	-0.13	-0.43 - 0.16	0.370
age40-49	-0.41	-0.700.12	0.006
age50-59	-0.59	-0.880.31	<0.001
age60-80	-0.79	-1.070.52	<0.001
income: <1'500€ <3'100CHF	0.24	-0.03 - 0.51	0.086
income: > 4'000€ >5'900 CHF	0.03	-0.21 - 0.28	0.784
income: 2'500- 4'000€ <4'300- 5'899CHF	-0.11	-0.34 – 0.13	0.379
country: Switzerland	-0.03	-0.21 – 0.15	0.760
politicalorientation_1	-0.03	-0.08 - 0.02	0.251
education: middle school	0.00	-0.24 – 0.24	0.989
education: no formal education	0.09	-0.21 – 0.40	0.539
education: obligatory school	0.09	-0.13 – 0.32	0.430
emotions.crisis.neg.tot	-0.07	-0.16 – 0.03	0.158
trust.gov	0.23	0.15 - 0.31	<0.001
mean absolute error	-0.25	-0.68 – 0.17	0.244
climate concern	0.68	0.58 - 0.78	<0.001
Sum of pro-environmental product choices	0.07	0.02 - 0.12	0.006
zeitpunkt: in 7 Jahren	1.47	0.76 - 2.18	<0.001
mean.abs.error:zeitpunktin 7 Jahren	1.30	0.76 - 1.83	<0.001
climate_concern:zeitpunktin 7 Jahren	-0.67	-0.780.55	<0.001
Sum.product:zeitpunktin 7 Jahren	-0.11	-0.180.05	<0.001
Random Effects			
σ^2	3.91		
τ ₀₀ ResponseId	0.93		
ICC	0.19		
N ResponseId	1522		
Observations	3044		
Marginal R ² / Conditional R ²	0.194 / 0	.348	



Decisions and decisions (in the interaction model)



By the way also for decomposed error into cor (=relative understanding) and sd -> cor almost main effect (p=0.051) and significant interaction with time -> such that for immediate more knowledge = more policies Sd so scale use neither main effect nor interaction with time -> so scale use no effect (because we also used this range that marghetis basically used as intervention to improve scale use)



		Sum.time	
Predictors	Estimates	CI	p
(Intercept)	0.64	-0.17 – 1.45	0.123
cor	0.27	-0.00 - 0.55	0.051
sd	0.21	-0.11 - 0.53	0.201
Sum product	0.07	0.02 - 0.12	0.005
climate concern	0.68	0.58 - 0.78	<0.001
zeitpunkt [in 7 Jahren]	2.70	2.06 - 3.33	<0.001
cor × zeitpunkt [in 7 Jahren]	-0.91	-1.25 – -0.56	<0.001
sd × zeitpunkt [in 7 Jahren]	-0.09	-0.50 - 0.32	0.672

Sum product × zeitpunkt [in 7 Jahren]	-0.11	-0.17 – -0.05	0.001
climate concern × zeitpunkt [in 7 Jahren]	-0.69	-0.80 – -0.57	<0.001
Observations	3044		
Marginal R ² / Conditional R ²	0.194 /	0.350	

Is also controlled for gender, age, income, education, pol.orientation etc, just not shown here

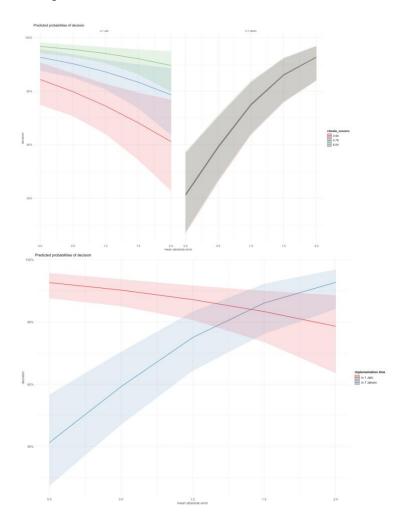
For predicting each decision in the logistic regression:

		decision	
Predictors	Odds Ratios	CI	p
(Intercept)	0.17	0.07 - 0.41	<0.001
co2-30% CO2	1.73	1.57 – 1.91	<0.001
tax: +6%	0.04	0.03 - 0.05	<0.001
energieabhaengigkeit: +20%	1.39	1.27 – 1.52	<0.001
gender: female	0.95	0.77 - 1.17	0.640
age30-39	0.86	0.61 - 1.21	0.380
age40-49	0.69	0.49 - 0.97	0.033
age50-59	0.57	0.40 - 0.80	0.001
age60-80	0.43	0.31 - 0.60	<0.001
income<1'500- 2'499€ 3'100-4'299CHF	0.75	0.54 - 1.03	0.072
income: 2'500- 4'000€ <4'300- 5'899CHF	0.65	0.47 - 0.89	0.008
income: > 4'000€ >5'900 CHF	0.79	0.57 – 1.10	0.160
country: Switzerland	1.11	0.90 - 1.37	0.335
education: obligatory school	1.13	0.80 - 1.58	0.490
education: middle school	1.03	0.71 - 1.48	0.876
education: degree	1.07	0.75 - 1.53	0.715
trust.gov	1.32	1.20 – 1.45	<0.001
politicalorientation_1	0.91	0.85 - 0.96	0.001
emotions.re.pos	1.07	0.96 – 1.19	0.239
mean absolute error	0.54	0.34 - 0.85	0.008
climate_concern	1.97	1.75 – 2.22	<0.001
Sum of proenvironmental product choices	1.07	1.01 – 1.13	0.015
implementation time: in 7 Jahren	2.31	0.99 - 5.42	0.053

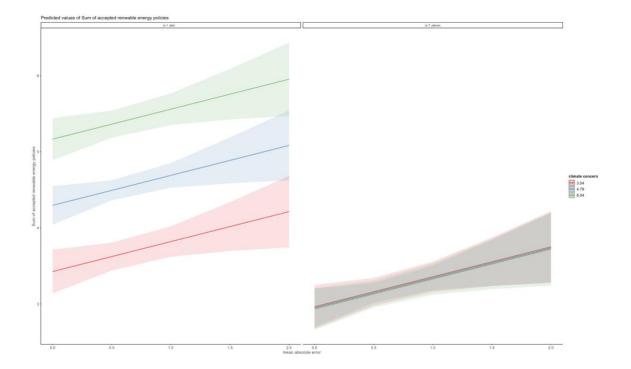
mean.abs.error:zeitpunktin 7 Jahren	7.88	4.22 – 14.72	<0.001
climate_concern:zeitpunktin 7 Jahren	0.51	0.44 - 0.59	<0.001
Sum.product:zeitpunktin 7 Jahren	0.88	0.82 - 0.95	0.001
Random Effects			
σ^2	3.29		

Random Effects		
σ^2	3.29	
τ ₀₀ ResponseId	4.79	
τ ₁₁ ResponseId.tax+6%	10.06	
τ ₁₁ ResponseId.co2-30% CO2	0.64	
τ ₁₁ ResponseId.energieabhaengigkeit+20%	0.21	
τ ₁₁ ResponseId.zeitpunktin 7 Jahren	7.05	
ρ ₀₁	-0.37	
	-0.29	
	-0.27	
	-0.25	
ICC	0.71	
N ResponseId	1522	
•		

Observations 24352 $Marginal \; R^2 \, / \, Conditional \; R^2$ 0.277 / 0.788

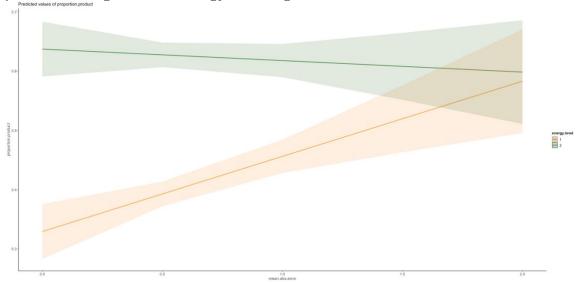


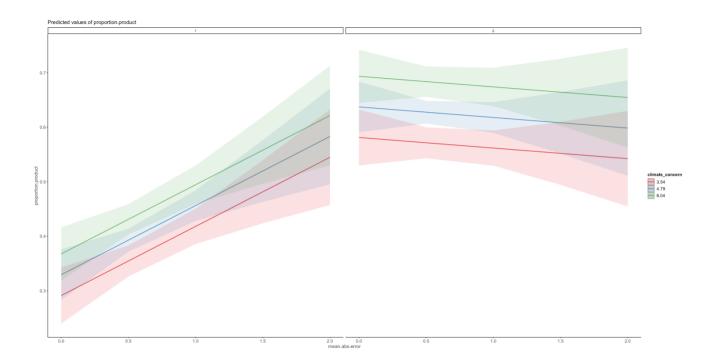
	Sum of accepted renwable energy policies		
Predictors	Estimates	CI	p
(Intercept)	0.52	-0.30 – 1.35	0.213
gender: male	0.13	-0.05 - 0.30	0.156
age30-39	-0.13	-0.43 – 0.16	0.370
age40-49	-0.41	-0.700.12	0.006
age50-59	-0.59	-0.880.31	<0.001
age60-80	-0.79	-1.070.52	<0.001
income: <1'500€ <3'100CHF	0.24	-0.03 - 0.51	0.086
income: > 4'000€ >5'900 CHF	0.03	-0.21 – 0.28	0.784
income: 2'500- 4'000€ <4'300- 5'899CHF	-0.11	-0.34 – 0.13	0.379
country: Switzerland	-0.03	-0.21 - 0.15	0.760
politicalorientation_1	-0.03	-0.08 - 0.02	0.251
education: middle school	0.00	-0.24 – 0.24	0.989
education: no formal education	0.09	-0.21 – 0.40	0.539
education: obligatory school	0.09	-0.13 – 0.32	0.430
emotions.crisis.neg.tot	-0.07	-0.16 - 0.03	0.158
trust.gov	0.23	0.15 - 0.31	<0.001
mean absolute error	0.39	0.06 - 0.73	0.021
climate concern	0.70	0.60 - 0.79	<0.001
Sum of pro-environmental product choices	0.07	0.02 - 0.12	0.010
zeitpunkt: in 7 Jahren	2.47	1.89 - 3.05	<0.001
climate_concern:zeitpunktin 7 Jahren	-0.71	-0.820.59	<0.001
Sum.product:zeitpunktin 7 Jahren	-0.11	-0.170.04	0.001
Random Effects			
σ^2	3.97		
τ _{00 ResponseId}	0.90		
ICC	0.18		
N ResponseId	1522		
Observations	3044		
$Marginal \ R^2 \ / \ Conditional \ R^2$	0.189 / 0	.339	



Predicting product choice

product choice getrennt für energy level zeigt sich dann ein ähnliches bild





Auch für einzelne choices

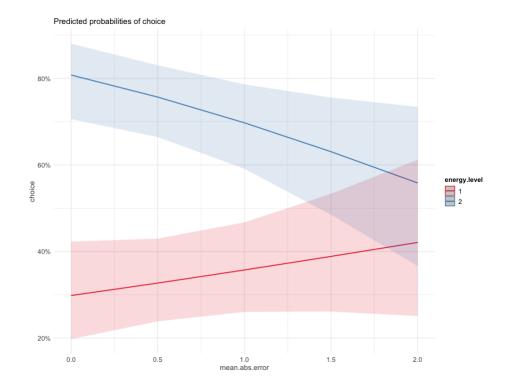
model.choice.error.s <- glmer(choice ~ price.level * energy.level + price.level*(climate_concern+mean.abs.error) + (mean.abs.error+ climate_concern)* energy.level + country*price.level + country*energy.level + trust.gov + mean.abs.error + V2+ gender + age + income + education + (1 + price.level + energy.level| ResponseId), data=data.everything, family="binomial")

		choice	
Predictors	Odds Ratios	CI	p
(Intercept)	0.12	0.04 - 0.33	<0.001
price level [2]	0.26	0.14 - 0.49	<0.001
energy level [2]	4.98	2.87 - 8.66	<0.001
climate concern	1.27	1.13 – 1.42	<0.001
mean abs error	1.31	0.80 - 2.13	0.283
country [Switzerland]	2.17	1.68 - 2.81	<0.001
trust gov	1.08	0.97 – 1.19	0.152
V2	0.88	0.48 - 1.59	0.669
gender [male]	1.10	0.88 - 1.38	0.407
age30-39	1.09	0.75 - 1.58	0.666
age40-49	1.32	0.91 - 1.92	0.142
age50-59	1.16	0.80 - 1.67	0.441
age60-80	1.49	1.05 - 2.13	0.026
income [<1'500€ <3'100CHF]	0.99	0.70 - 1.41	0.968
income [> 4'000€ >5'900 CHF]	1.85	1.35 – 2.53	<0.001

income [2'500- 4'000€ <4'300- 5'899CHF]	1.41	1.04 – 1.91	0.028
education [middle school]	0.90	0.66 - 1.23	0.496
education [no formal education]	1.07	0.72 - 1.58	0.744
education [obligatory school]	1.03	0.77 - 1.37	0.858
price level [2] × energy level [2]	0.38	0.29 - 0.50	<0.001
price level [2] × climate concern	0.92	0.84 - 1.02	0.114
price level [2] × mean abs error	3.69	2.37 - 5.75	<0.001
energy level [2] × mean abs error	0.42	0.28 - 0.63	<0.001
energy level [2] × climate concern	1.15	1.05 – 1.26	0.002
price level [2] × country [Switzerland]	0.19	0.15 - 0.25	<0.001
energy level [2] × country [Switzerland]	0.75	0.60 - 0.93	0.009
Random Effects			
σ^2	3.29		
$ au_{00}$ ResponseId	3.38		
τ _{11 ResponseId.price.level2}	0.43		
$ au_{11}$ ResponseId.energy.level2	0.01		
ρ_{01}	0.33		
	-0.63		
ICC	0.53		
N _{ResponseId}	1522		
Observations	10654		

0.233 / 0.643

Marginal R^2 / Conditional R^2



Models for H1 As pre-registered:

controlled for age, gender, country of origin and income and with random intercept model. $H1 \leftarrow glmer(decision \sim co2 + tax + energieabhaengigkeit + zeitpunkt + gender + age + income + country + (1/id), data=data.decision, family="binomial")$

Predictors	decision Odds Ratios	: CI	р
(Intercept)	3.62	2.83 – 4.63	<0.001
co2-30% CO2	1.36	1.27 – 1.44	<0.001
tax [+6%]	0.15	0.14 - 0.16	<0.001
energieabhaengigkeit [+20%]	1.19	1.12 – 1.26	<0.001
zeitpunkt [in 7 Jahren]	0.39	0.37 - 0.42	<0.001
gender [male]	0.98	0.84 - 1.14	0.824
age30-39	0.78	0.61 - 1.00	0.054
age40-49	0.64	0.50 - 0.83	0.001
age50-59	0.58	0.45 - 0.74	<0.001
age60-80	0.56	0.45 - 0.71	<0.001
income [<1'500€ <3'100CHF]	1.23	0.97 – 1.56	0.085

income [> 4'000€ >5'900 CHF]	1.14	0.92 - 1.40	0.236
income [2'500- 4'000€ <4'300- 5'899CHF]	0.97	0.79 – 1.20	0.797
country [Switzerland]	1.10	0.94 - 1.28	0.232
Random Effects			
σ^2	3.29		
$ au_{00 \; \mathrm{id}}$	1.96		
ICC	0.37		
N_{id}	1577		
Observations	25232		
Marginal R ² / Conditional R ²	0.184 / 0.4	188	

		decision	
Predictors	Odds Ratios	CI	p
(Intercept)	6.11	4.12 - 9.07	<0.001
co2-30% CO2	1.71	1.56 – 1.88	<0.001
tax [+6%]	0.04	0.04 - 0.05	<0.001
energieabhaengigkeit [+20%]	1.37	1.26 – 1.50	<0.001
zeitpunkt [in 7 Jahren]	0.24	0.20 - 0.28	<0.001
income<1'500- 2'499€ 3'100-4'299CHF	0.81	0.58 - 1.13	0.222
income [2'500- 4'000€ <4'300- 5'899CHF]	0.67	0.48 - 0.93	0.017
income [> 4'000€ >5'900 CHF]	0.85	0.61 – 1.18	0.331
gender [female]	1.05	0.85 - 1.30	0.651
age30-39	0.97	0.68 - 1.39	0.877
age40-49	0.79	0.55 - 1.13	0.196
age50-59	0.66	0.47 - 0.94	0.021
age60-80	0.60	0.43 - 0.83	0.002
country [Switzerland]	1.13	0.91 - 1.41	0.266
politicalorientation scaled	0.76	0.68 - 0.85	<0.001
trust gov scaled	1.60	1.46 – 1.75	<0.001
Random Effects			
σ^2	3.29		
$ au_{00 \ id}$	5.43		
τ11 id.co2-30% CO2	0.61		
$ au_{11\ id.tax+6\%}$	9.63		

0.19

 τ_{11} id.energieabhaengigkeit+20%

τ ₁₁ id.zeitpunktin 7 Jahren	7.84
ρ01	-0.16
	-0.32
	-0.16
	-0.29
ICC	0.73
N id	1628
Observations	26048
Marginal R ² / Conditional R ²	0.231 / 0.788

- □ Income only lowest to third group significant everything else not, so negligible
- ⇒ Political orientation: the more "right" identify, the less likely to support policies
- ⇒ Trust in gov: higher trust , more likelihood to support policies

Trust and political orientation correlated by -0.098

No demographics, random slopes and random intercept

		decision			
Predictors	Odds Ratios	CI	p		
(Intercept)	4.08	3.49 – 4.77	<0.001		
co2-30% CO2	1.70	1.55 – 1.87	<0.001		
tax (1% vs 6%): +6%	0.04	0.04 - 0.05	<0.001		
energyindependence (10% vs 20%): +20%	1.38	1.27 – 1.51	<0.001		
implementation (in 1 vs 7 years): in 7 Jahren	0.24	0.20 - 0.28	<0.001		
Random Effects					
σ^2	3.29				
$ au_{00 \ id}$	5.54				
T00 ResponseId	0.05	0.05			
T11 id.co2-30% CO2	0.55	0.55			
τ11 id.tax+6%	9.36	9.36			
τ ₁₁ id.energieabhaengigkeit+20%	0.18	0.18			
T11 id.zeitpunktin 7 Jahren	7.79				
ρ01 id.co2-30% CO2	-0.04	-0.04			
ρ01 id.tax+6%	-0.27				
ρ01 id.energieabhaengigkeit+20%	-0.09				
ρ01 id.zeitpunktin 7 Jahren	-0.35				
ICC	0.73				
N_{id}	1628				
N ResponseId	1628				
Observations	26048				
Marginal R ² / Conditional R ²	0.201 / 0.78	34			

Models for H1b

		decision	
Predictors	Odds Ratios	CI	p
(Intercept)	7.66	5.22 - 11.26	< 0.001
co2-30% CO2	1.69	1.54 – 1.85	<0.001
tax (1% vs 6%): +6%	0.04	0.04 - 0.05	<0.001
energyindependence (10% vs 20%): +20%	1.38	1.27 – 1.51	<0.001
implementation (in 1 vs 7 years): in 7 Jahren	0.24	0.21 - 0.28	<0.001
concern.scaled	2.19	1.96 – 2.45	<0.001
income<1'500- 2'499€ 3'100-4'299CHF	0.81	0.59 – 1.12	0.211
income: 2'500- 4'000€ <4'300- 5'899CHF	0.68	0.50 - 0.94	0.018
income: > 4'000€ >5'900 CHF	0.82	0.60 – 1.13	0.225
gender: female	0.96	0.78 - 1.18	0.673
age30-39	0.85	0.60 – 1.19	0.338
age40-49	0.66	0.47 - 0.93	0.018
age50-59	0.55	0.39 - 0.77	<0.001
age60-80	0.44	0.32 - 0.61	<0.001
country: Switzerland	1.14	0.92 - 1.40	0.229
politicalorientation.scaled	0.86	0.77 - 0.96	0.009
trust.gov.scaled	1.35	1.23 – 1.48	<0.001
zeitpunktin 7 Jahren:concern.scaled	0.45	0.40 - 0.52	<0.001
Random Effects			
σ^2	3.29		
T 00 id	5.35		
T11 id.co2-30% CO2	0.61		
τ_{11} id.tax+6%	9.72		
τ11 id.energieabhaengigkeit+20%	0.20		
τ ₁₁ id.zeitpunktin 7 Jahren	6.71		
ρ01	-0.28		
1 **	-0.36		
	-0.30		
	-0.25		
ICC	0.71		
N id	1628		
Observations	26048		
Marginal R ² / Conditional R ²	0.258 / 0.787		