Types, explanatory models and data based examples of environmental behaviour

> Masaryk University, Brno Audronė Telešienė 9<sup>th</sup> December, 2014

#### Structure of the lecture

- 1. Types of environmental behaviour
- 2. Explanations of environmental behaviour
- 3. Data based examples of env. behaviour in various countries

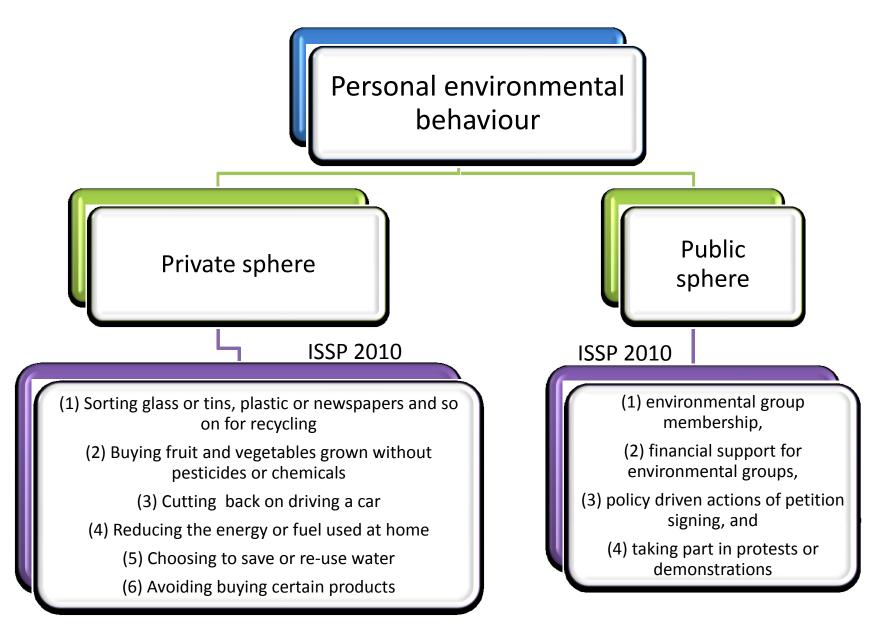
What kinds of environmental behaviour are there for us?

#### TYPES OF ENVIRONMENTAL BEHAVIOUR

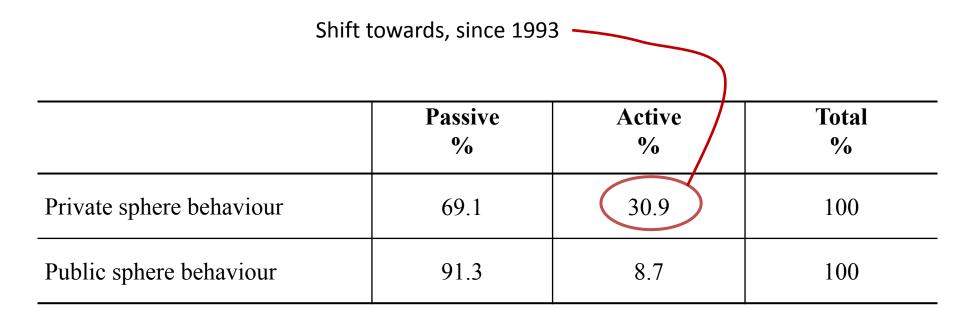
## Types of personal environmental behaviour (Stern, 2010)



#### Operational definition: environmental behaviour



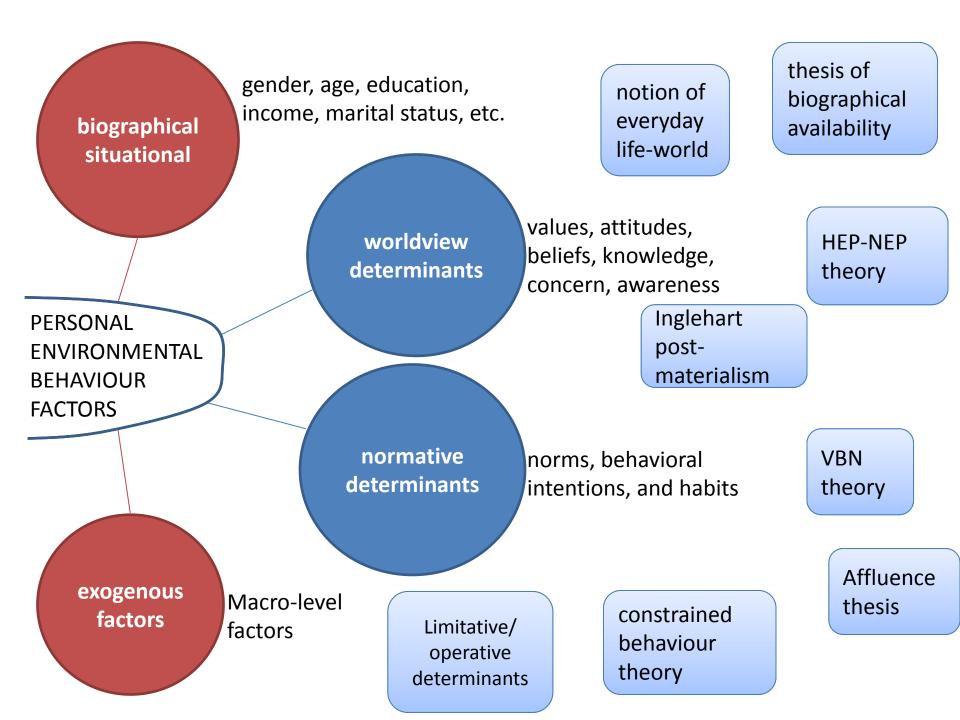
## Level of involvement in environmental behaviour, %



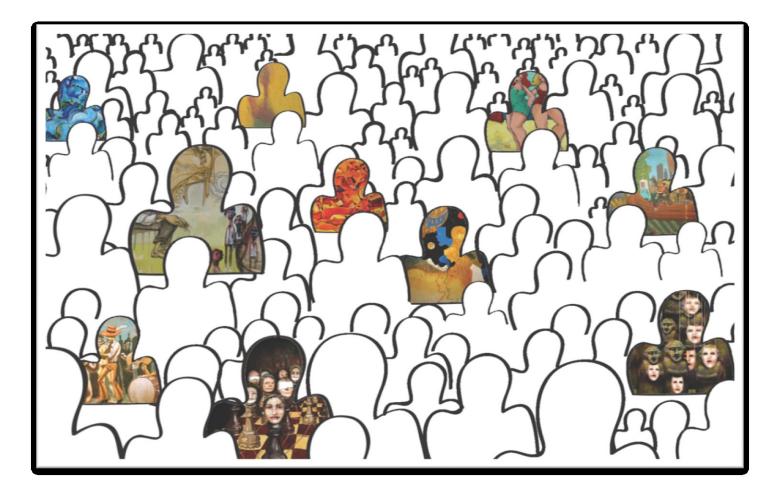
ISSP Environment, Lithuania, 2010, N=1023

Why individuals behave as they do?

#### EXPLANATIONS OF ENVIRONMENTAL BEHAVIOUR



#### Everyday life-world, Alfred Shutz



Each individual's worldview is different, because each individual has a unique life story, unique set of biographical situations. **Thus previous experiences serve as guides for todays actions** 

### Biographical availability thesis

- The absence of personal constraints that may increase the costs and risks of environmental behaviour (esp. movement participation).
  - − E.g. cutting back on driving a car → when having small children
  - E.g. participating in a movement → when not married and not in job, e.g. studying

#### Environmental behaviour types by sociodemographic variables, %

	D					
	Private sphere environmental			Public sphere environmental		
	behaviour, %			behaviour,%		
	Active	Passive	p *	Active	Passive	p *
Total	30.8%	69.2%		8.7%	91.3%	
Gender			.000			.515
Male	24.4%	75.6%	ļ	8.1%	91.9%	
Female	36.4%	63.6%	l	9.3%	90.7%	
Age			.000			.103
17-24	19.4%	80.6%	ļ	12.9%	87.1%	
25-39	25.6%	74.4%	ļ	8.9%	91.1%	
40-54	31.0%	69.0%	ļ	8.2%	91.8%	
55+	41.9%	58.1%	ļ	6.5%	93.5%	
Education level			.000			.000
Primary/ not completed primary	40.4%	59.6%	ļ	.0%	100.0%	
Lower secondary	20.0%	80.0%	ļ	2.4%	97.6%	
Secondary	24.9%	75.1%	ļ	6.8%	93.2%	
Vocational/ technical	34.0%	66.0%	ļ	6.4%	93.6%	
College	33.3%	66.7%	ļ	8.3%	91.7%	
University degree	40.7%	59.3%	l	21.0%	79.0%	
Place of residence <sup>a</sup>			.000			.000
Big city	27.0%	73.0%	ļ	9.9%	90.1%	
Small city or town	38.6%	61.4%	ļ	11.4%	88.6%	
Country village	27.1%	72.9%	ļ	1.9%	98.1%	

\* Chi-square test, significance

biographical

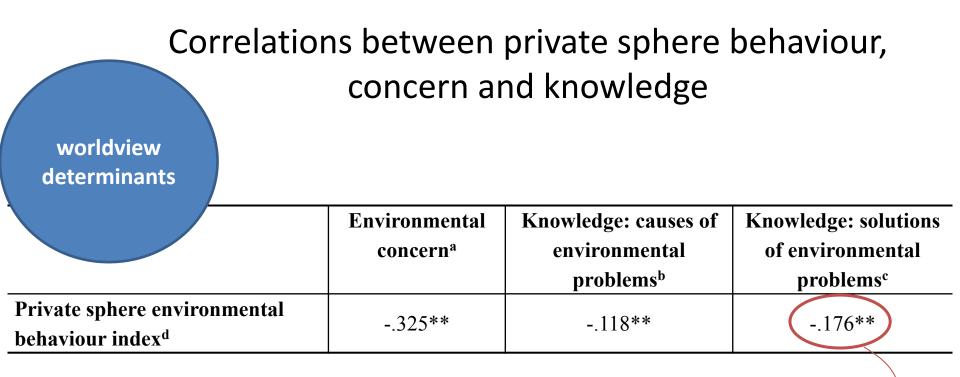
situational

a.Questionnaire included categories "the suburbs or outskirts of a big city" and "a farm or home in the country". We excluded these categories from our analysis because of small n

ISSP Environment, Lithuania, 2010, N=1023

# Generalisation of influence of biographic situation (for Lithuanian case)

- Active private sphere environmental behaviour is more common among
  - women
  - people aged 55+
  - those with university degree
  - inhabitants of small towns.
- Public sphere environmental activities are more common among
  - inhabitants of small city or town;
  - those with university degree.



#### Correlations between private sphere behaviour, concern and knowledge (Spearman rho)

\*\* p < 0.01

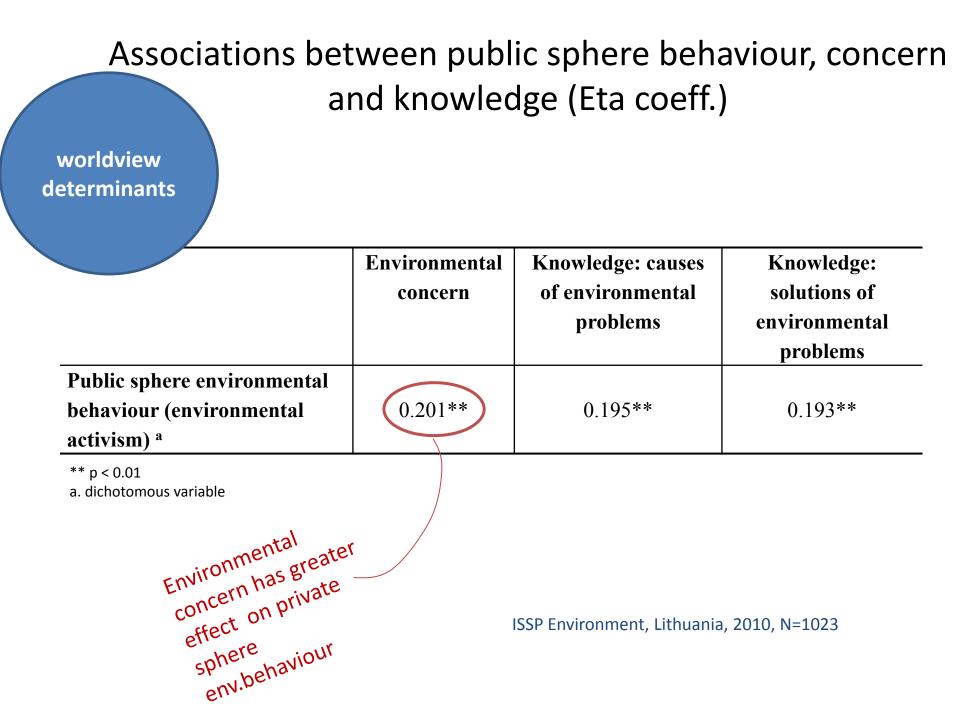
a. Q: "Generally speaking, how concerned are you about environmental issues?", answers from 1 – "not at all concerned" to 5 – "very much concerned"

b. Q:"How much do you feel you know about the causes of environmental problems?", answers from 1 – "nothing" to 5 – "very much"

c. Q:"How much do you feel you know about the <u>solutions</u> of environmental problems?" answers from 1 – "nothing" to 5 – "very much"

d. Scale from 1 - "very active" to 4 - "very passive"

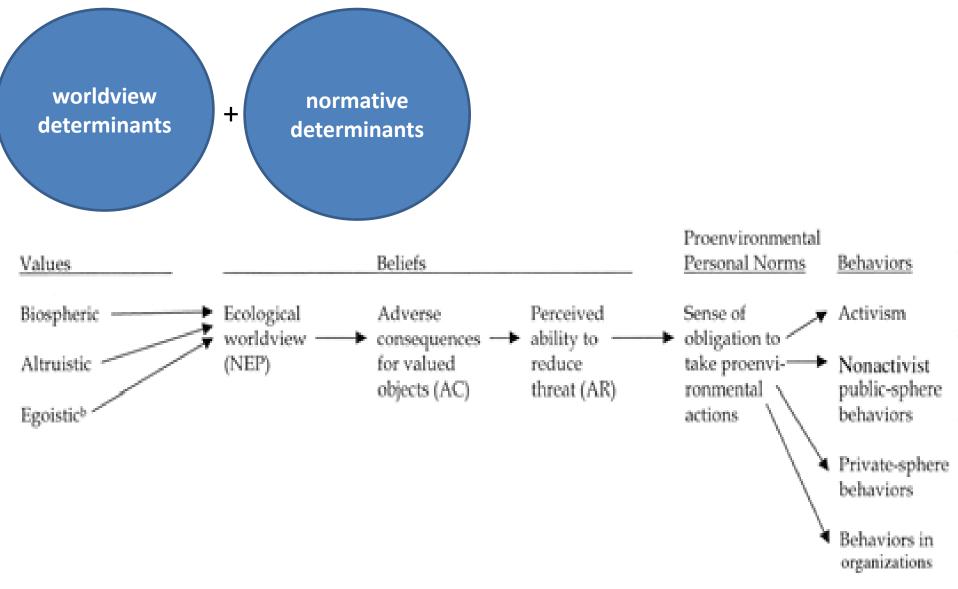
Knowledge about solutions is more effective

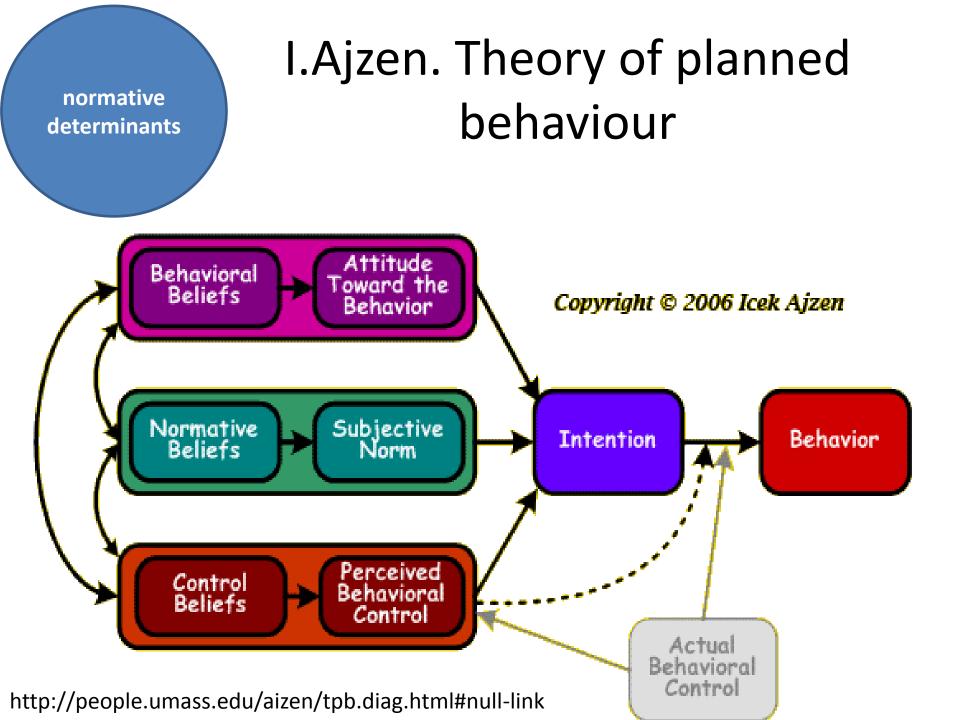


Generalisation of influence of env.worldview (for Lithuanian case)

- Environmental concern has significant positive influence upon environmental behaviour.
- Subjectively assessed knowledge about the causes and solutions of environmental problems has also significant influence upon environmental behaviour, though it is weaker than influence of environmental concern.

#### VBN theory (Stern 2000)





### Limitative/operative determinants

- Limitative determinants:
  - availability of infrastructure, technologies
- Operative determinants:
  - having necessary tools to conduct a behavior,
  - governmental regulations,
  - community expectations.

Societal level factors that make limiting or enabling contexts for individual behavior.

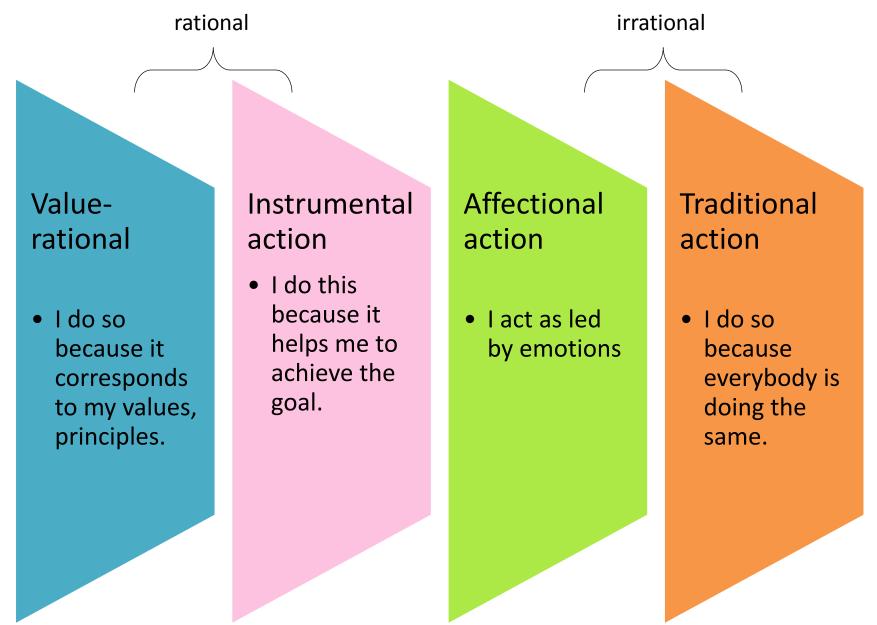
e.g., Van der Meer (1981)

#### Constrained behaviour thesis

- Behaviour that is relatively more difficult to conduct is less likely in many populations.
- Constrains might occur because of behavioral situational characteristics (e.g. lack of income or time) or context forces (e.g. lack of infrastructure, low community support).

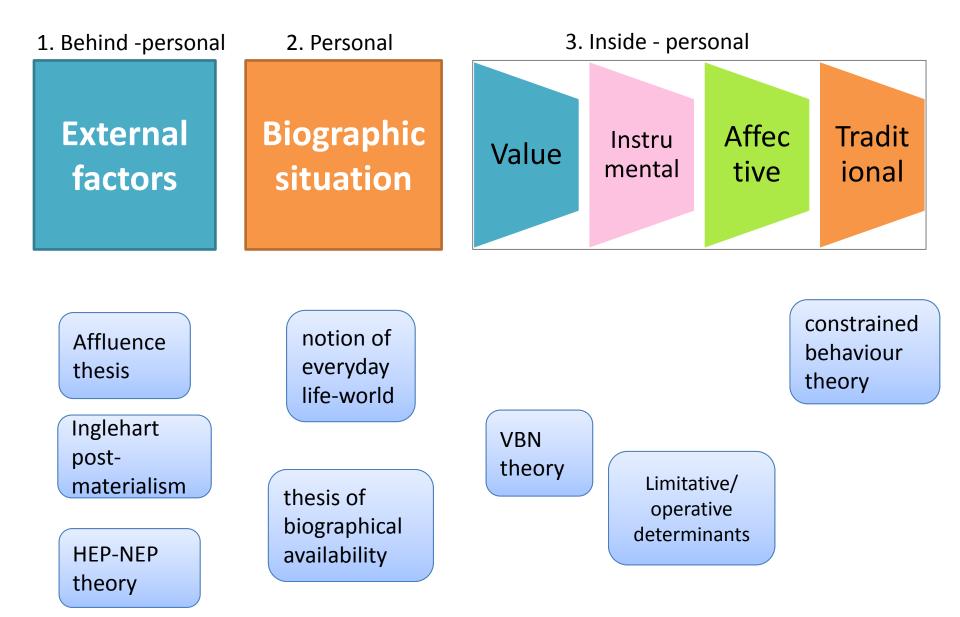
Interestingly, Guagnano et al (1995) state that when contextual factors are strong and environmental behavior is constrained, e.g. difficult to conduct, time-consuming, expensive attitudinal and normative variables only weakly correlate with behaviour.

#### M.Weber. Types of social action



Why individuals behave as they do?

#### Linking theories



#### DATA BASED EXAMPLES OF ENV. BEHAVIOUR IN VARIOUS COUNTRIES

#### Private sphere env. behaviour

Q20a Effort: Sort glass for recycling

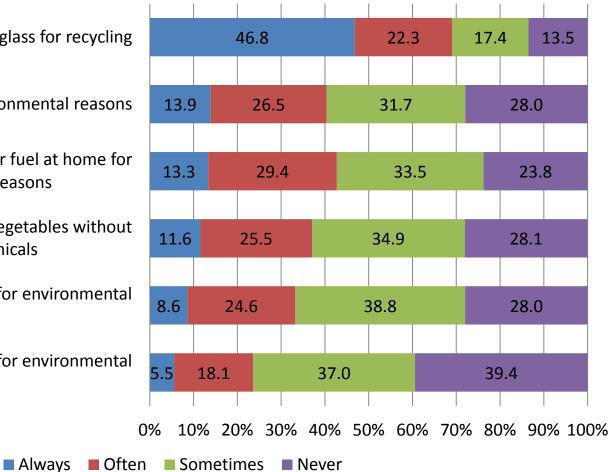
Q20e Save or re-use water for environmental reasons

Q20d Reduce the energy or fuel at home for environmental reasons

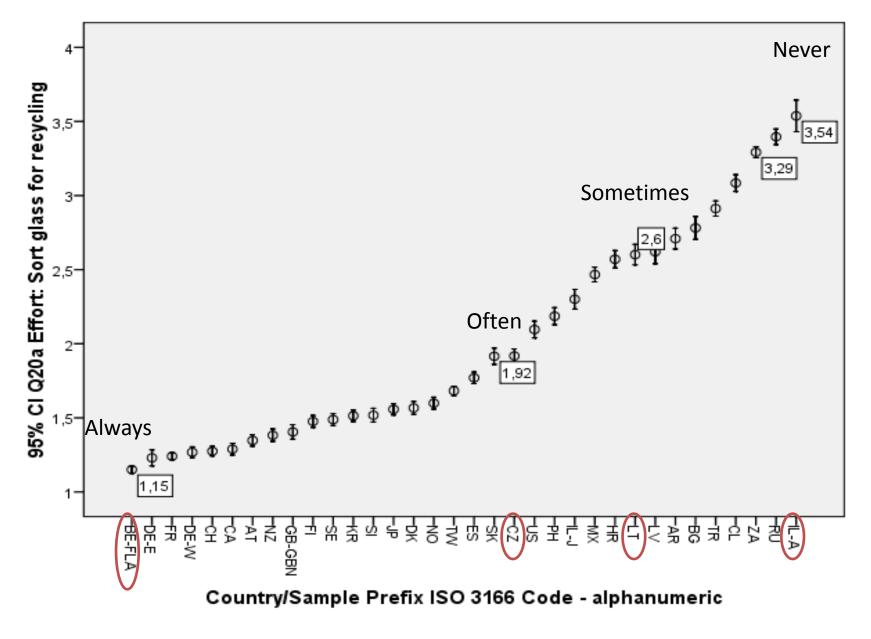
Q20b Effort: to buy fruit and vegetables without pesticides or chemicals

Q20f Avoid buying certain products for environmental reasons

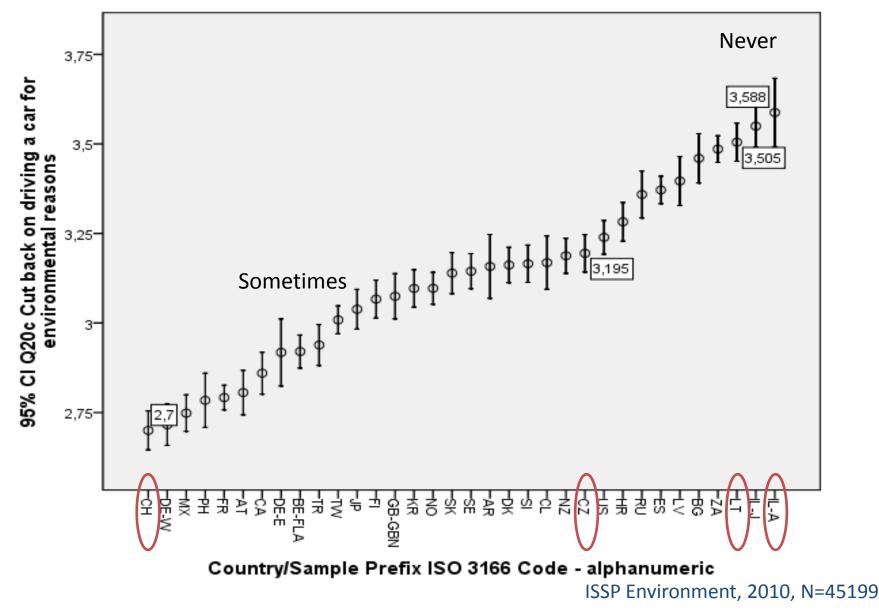
Q20c Cut back on driving a car for environmental reasons



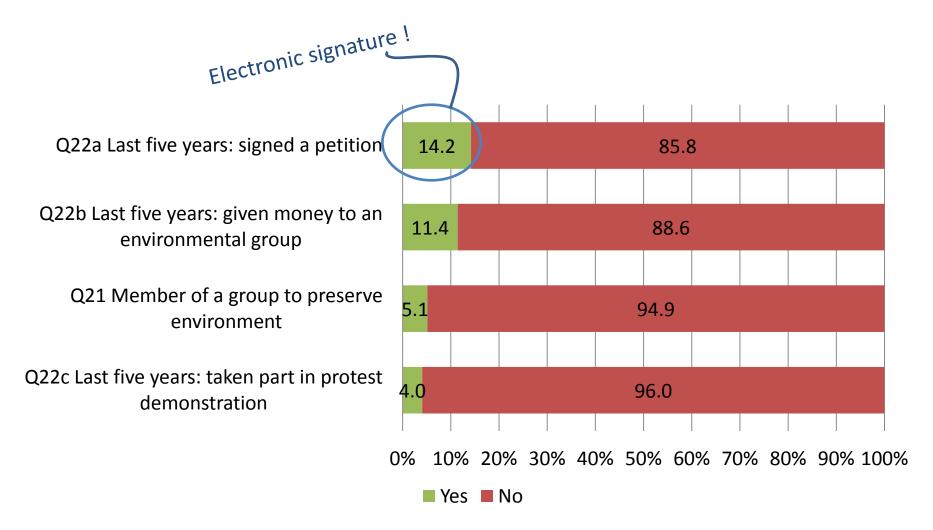
#### Recycling behaviour\*Country



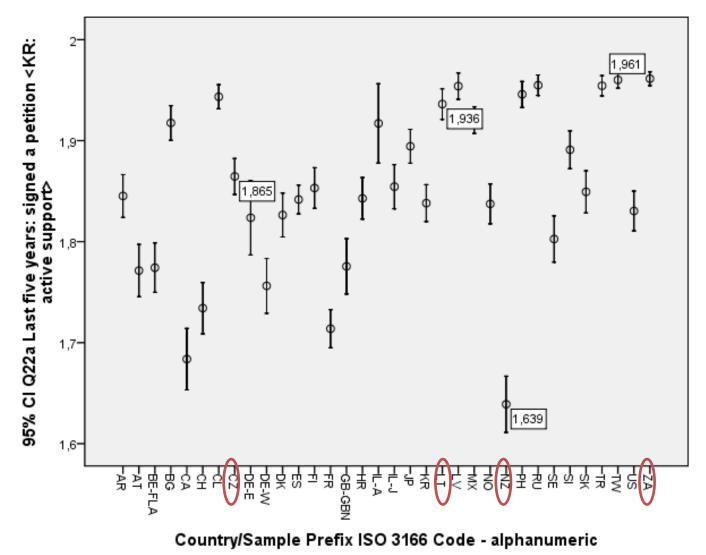
#### Cut back on driving a car\*Country



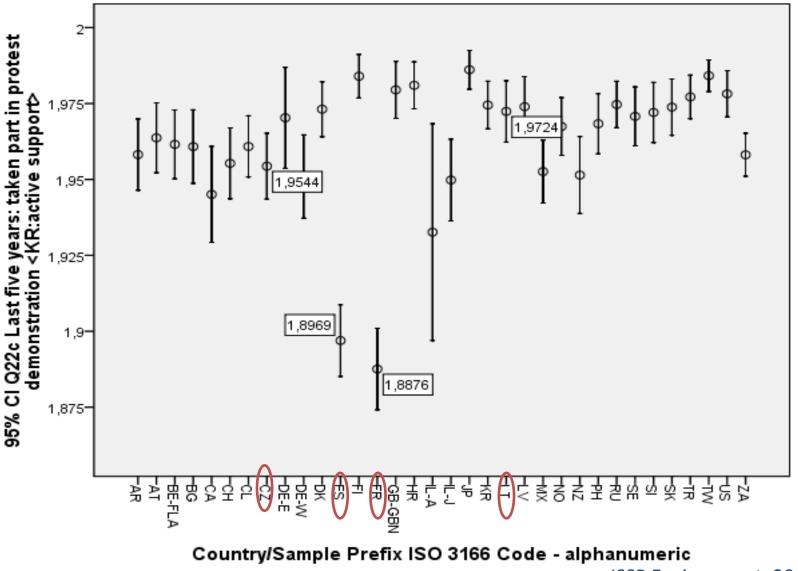
#### Public sphere env. behaviour



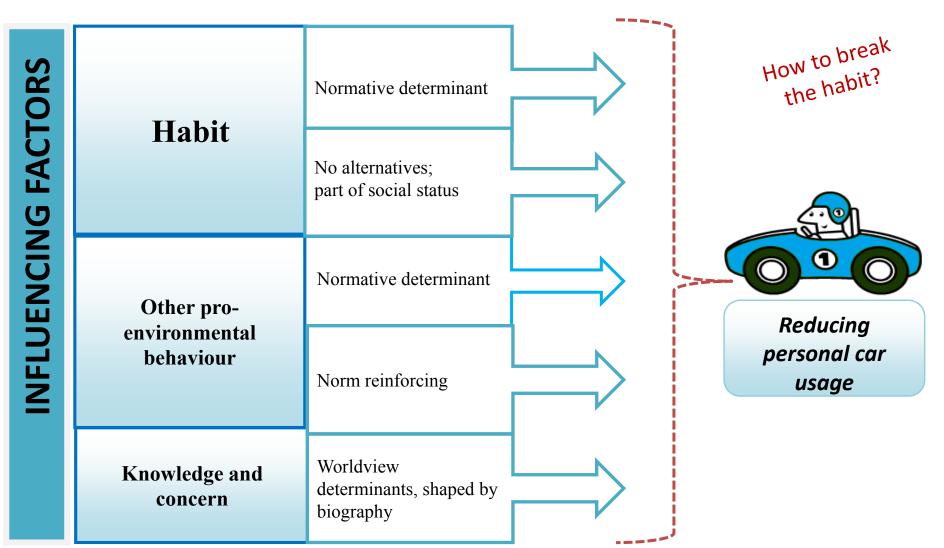
#### Signed a petition\*Country



#### Took part in protest\*Country

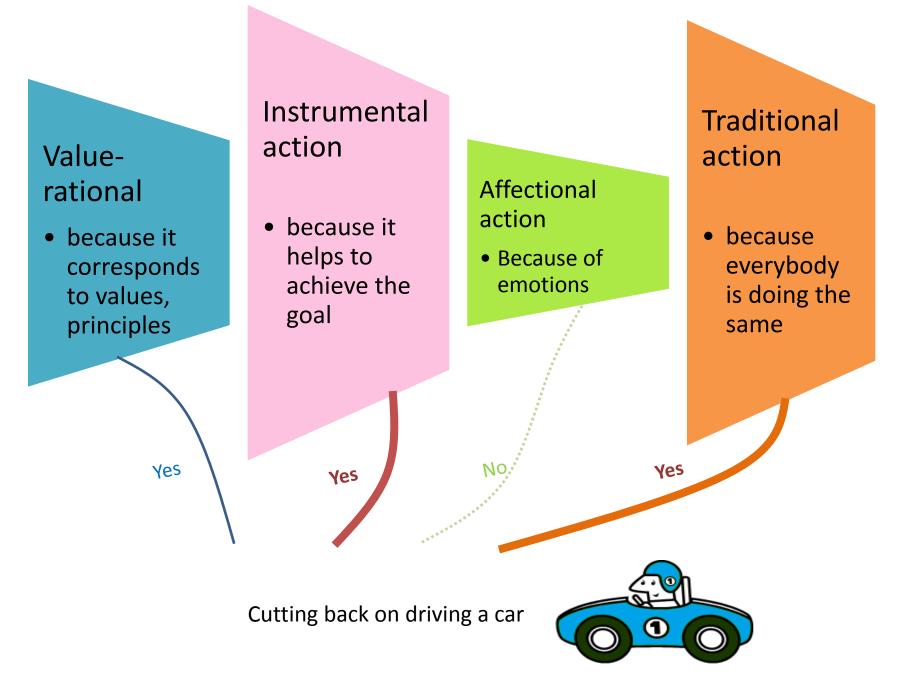


## Cutting back on driving a car: behaviour explained



#### EXAMPLE. ISSP 2010 Environment data for Lithuania + Qualitative research

#### Why individuals act as they do?



#### How to break the habit?

Examples

 Sports mega events: Sochi Olympic games



 Creative agency: Environmental Health Clinic





#### Bike Messenger

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- Sports mega-events oblige for infrastructural and socio-cultural transformations of urban systems.
- Surveys traced change in environmental practices and consumption in Sochi.

P. O. Ermolaeva (2015) [unpublished]

### **Concluding remarks**

- Behaviour specific explanations recycling ≠ litter control ≠ car driving
- Power of **HABIT**
- Enabling/restraining contexts
- Influencing worldviews
- Reinforcing norms

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