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Equality and Sustainable Consumption in Capability Perspective

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Equality and Sustainable Consumption in Capability Perspective

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- 2. Data and Empirical Model
- 3. Empirical Results on Socio-economic Impacts
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Equality and Sustainable Consumption: The Theoretical Model







Equality and Sustainable Consumption: Data

- Innovation Sample of the German Socio-Economic Panel in 2012
- Two behaviors:
 - Purchase of organic food (N=536) 56.9% female; $M_{age} = 51.02$ years, $SD_{age} = 18.53$ years
 - Use of public transport or bike for inner-city rides (N=363)
 45.6% female; M_{age} = 52.39 years, SD_{age} = 15.89 years





Equality and Sustainable Consumption: Empirical Model







Variables I – endogenous variables

- Intention:
 - "How often do you intend to [purchase organic food / use public transport & bike for inner-city rides] in the future?" 5-point scale: "no, never" - 5 "yes, very often"
- Self -reported behaviour: "How often have you [bought organic food / used public transport / bike for inner city-rides] within the last 3 months?" 5-point scale: 1 "never" - 5 "very often"





Variables II – endogenous variables

- Attitude (2 items): "[Purchasing organic food / Using public transport & bike] is a good thing to do." "[Purchasing organic food / Using public transport & bike] is pleasant." 5-point scale: 1 "do not agree" - 5 "totally agree"
- Perceived freedom of choice: "How much freedom of choice do you have to [purchase organic food / use public transport & bike for inner-city rides]?" 5-point scale: 1 "very little" - 5 "very much"





Variables III – exogenous variables

• Descriptive Norm:

"Most people who are important to me [purchase organic food / use public transport & bike for innercity rides]."

5-point scale: 1 "do not agree" - 5 "totally agree"

- Resource constraints (2 items): [Purchasing organic food / Using public transport & bike]
 - ... is financially demanding.
 - ... is costly in terms of time."
 - 5-point scale: 1 "do not agree" 5 "totally agree"





Variables IV – exogenous variables

 Infrastructure barriers (social conversion factors): "Purchasing organic food is difficult for me because of the lack of shops that offer such products."

"Using public transport & bike for inner-city rides is difficult for me because of an insufficient public transport infrastructure."

5-point scale: 1 "do not agree" - 5 "totally agree"

 Health barriers (personal conversion factors): "Using public transport & bike for inner-city rides is difficult for me because of my health." 5-point scale: 1 "do not agree" - 5 "totally agree":





Empirical Results: Frequency of self-reported behavior







Empirical results: Perceived freedom of choice – frequencies



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Empirical Results – Discrepancy Analysis between Attitudes and Freedom of Choice

score discrepancy analysis (gap of two score points or more)

- attitudes >> perceived freedom of choice
 - 29.2 % in mobility sample
 - 20.9 % in food sample
- perceived freedom of choice >> attitudes
 - 5 % in mobility sample
 - 5.6 % in food sample





Regression analysis I – Purchase of organic food

Dependent V.	Purchase of organic	Perceived freedom of choice to purchase	(Perceived) Norm to purchase organic
Independent V.	food	organic food	food
Sex (0= male, 1= female)	.22***	.09*	n.s.
Household income (log)	.13**	.15**	n.s.
Education	.15**	.14**	n.s.
Age	n.s.	n.s.	.14**
Household size	n.s.	n.s.	n.s.
Ethnicity	n.s.	n.s.	n.s.
Interest in politics (0= no, 1= yes)	.17**		

* p < .05; ** p < .01; *** p < .001





Regression analysis II – Mobility behaviour

Dependent V.	Use of public transport	Perceived freedom of choice to use public	(Perceived) Norm to use public
Independent V.	& bike	transport & bike	transport & bike
Sex (0= male, 1= female)	n.s.	n.s.	n.s.
Household income (log)	11*	n.s.	n.s.
Education	.12*	n.s.	n.s.
Age	n.s.	n.s.	.18**
Household size	n.s.	n.s.	n.s.
Ethnicity	n.s.	n.s.	n.s.
Interest in politics (0= no, 1= yes)	n.s.		
* <i>p</i> < .05; ** <i>p</i> < .01			





Regression analysis III – synopsis behavior, freedom of choice and norms

- Stronger correlation of socio-economic factors with food purchase than with mobility behaviour
- Central variables: household income and education
- Purchase of organic food: effect of income on purchase behaviour only significant when education was low (but not when educ. was high)
- No effects of perceived norms (perceived environmentalism of important others does not differ across social groups)





Regression Analysis IV – Purchase of Organic Food: Barriers and Constraints

Dependent V.	Infrastructure	Financial
	barriers	constraints
Independent. V.		
Sex (0= male, 1= female)	n.s.	n.s.
Household income (log)	11*	32**
Education	10*	n.s.
Age	n.s.	n.s.
Household size	n.s.	n.s.
Ethnicity	n.s.	.09*

* *p* < .05; ** *p* < .01





Regression Analysis V – Mobility: Barriers and Constraints

Dependent V.	Infrastructure	Time constraints
Independent V.	barriers	
Sex (0= male, 1= female)	n.s.	n.s.
Household income (log)	n.s.	n.s.
Education	n.s.	n.s.
Age	n.s.	18**
Household size	.20**	n.s.
Ethnicity	n.s.	n.s.

* *p* < .05; ** *p* < .01





Equality and Sustainable Consumption in Capability Perspective – Conclusion





Equality and Sustainable Consumption in Capability Perspective

Thank you!

- For more information:
- http://www.soeb.de
 - Berichterstattung zur sozioökonomischen Entwicklung in Deutschland reporting on socio-economic development in Germany
- http://ipa.hsu-hh.de/lessmann





Path model I – Purchase of organic food







Path model II – Mobility behaviour

