

Institut für
Informationsmanagement
Bremen GmbH

Project design and ecological impacts of the e2democracy research collaboration

Workshop "Participation within the Field of Climate Change"
PACITA Conference "Technology Assessment and Policy Areas of Great Transitions"

Prague, 13-15 March 2013

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Nachhaltigkeit lernen



Weltdekade der
Verenigten Nationen
2005-2014

Bildung für
nachhaltige
Entwicklung



The **e2**democracy project

- **E**nvironmental **E**lectronic **D**emocracy
- Comparative Evaluation of **Impacts** of (e-) Participation in the field of climate protection

Impact:

i.e. has citizen participation led to long-term/
sustainable improvements of the situation (e.g.
reduction of CO₂ emissions, change of behavior, ...)

Research Question

- Does (**e-**)participation make a difference?

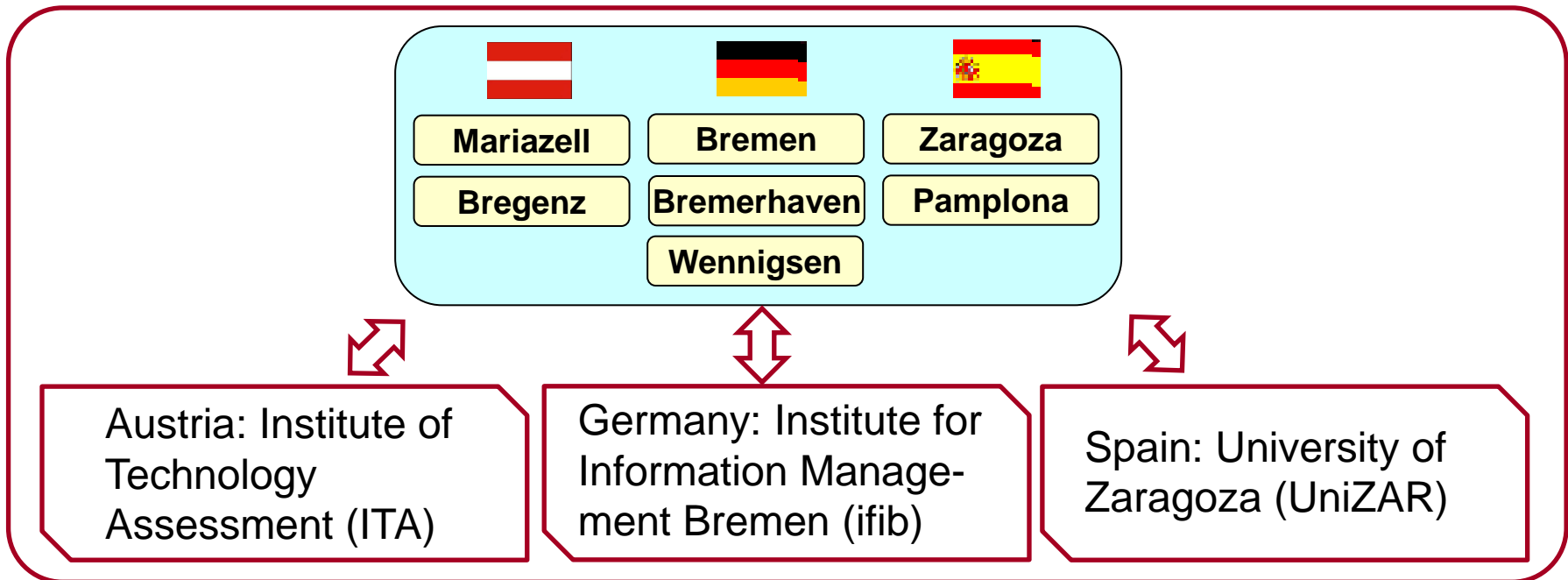
Application area

- **E**nvironment / Climate protection

Basic Hypothesis

- "Information saves energy"
 - Topic knowledge (what can I do?)
 - Own consumption (where can I start to change?)
 - Consumption of others (what do the others? / competition)

Research partners and participating cities



The project was supported by the European Science Foundation (ESF) as European Collaborative Research Project (ECRP) and was financed by the national research funding organisations in AT, DE and ES.

Evaluation subject: seven citizen panels

3-party contract



two years



Periodic Monitoring (CO₂-calculator)

Feedback

Newsletter

Public meetings

Consulting services

Monitoring instrument: CO₂-Calculator

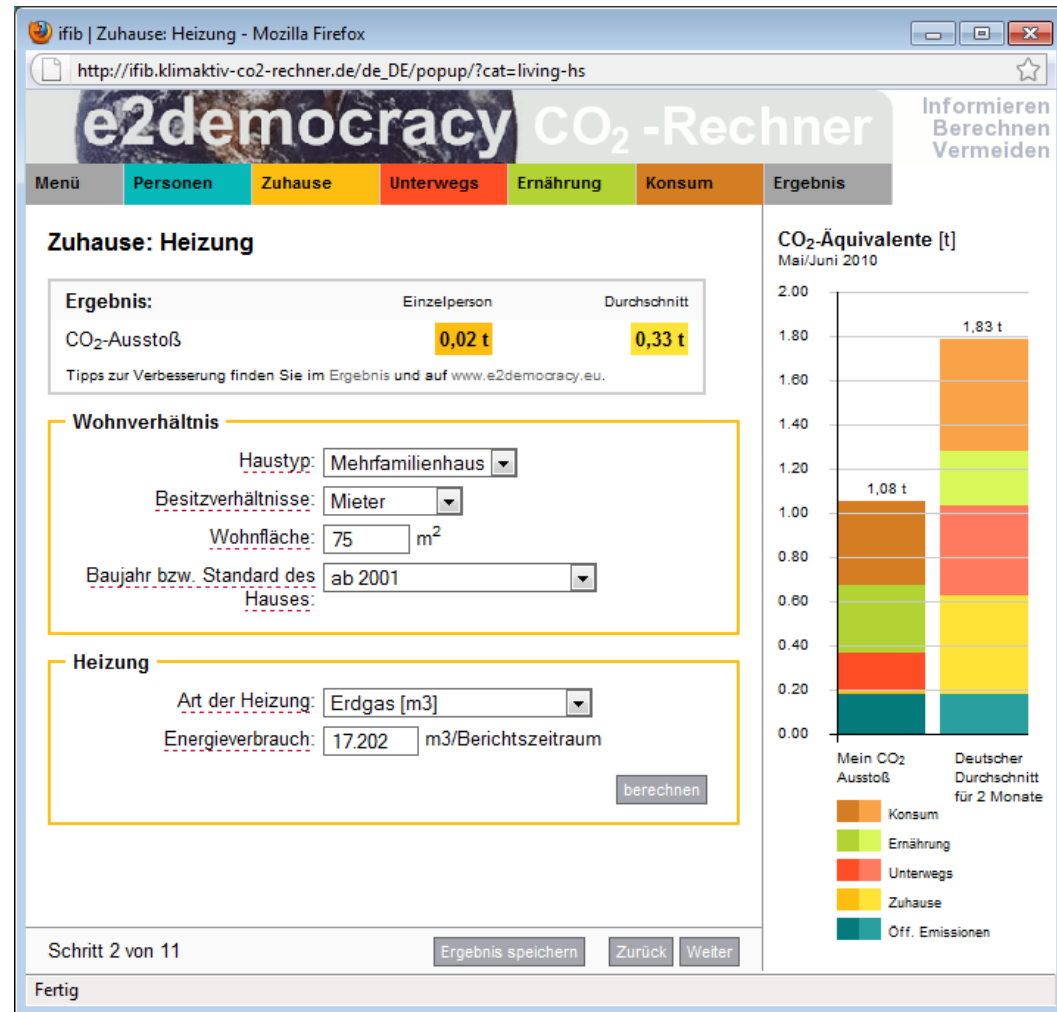
CO₂
reduction

At home
(Energy)

Mobility

Nutrition

Consumer
Goods



e2democracy CO₂-Rechner | Informieren Berechnen Vermeiden

Menü | Personen | **Zuhause** | Unterwegs | Ernährung | Konsum | Ergebnis

Zuhause: Heizung

Ergebnis: Einzelperson | Durchschnitt

CO₂-Ausstoß: **0,02 t** | **0,33 t**

Tipps zur Verbesserung finden Sie im Ergebnis und auf www.e2democracy.eu.

Wohnverhältnis

Haustyp:

Besitzverhältnisse:

Wohnfläche: m²

Baujahr bzw. Standard des Hauses:

Heizung

Art der Heizung:

Energieverbrauch: m³/Berichtszeitraum

Schritt 2 von 11 | | |

Fertig

CO₂-Äquivalente [t]
Mai/Juni 2010




























1,08 t (Mein CO₂ Ausstoß) | 1,83 t (Deutscher Durchschnitt für 2 Monate)

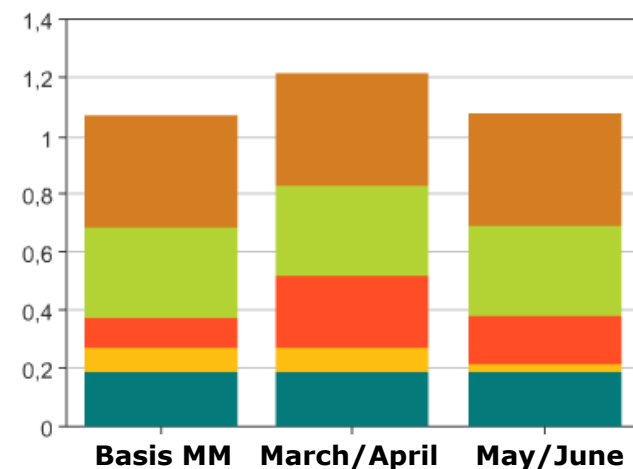
Legende:

- Konsum (orange)
- Ernährung (light green)
- Unterwegs (red)
- Zuhause (yellow)
- Off. Emissionen (teal)

Example of feedback

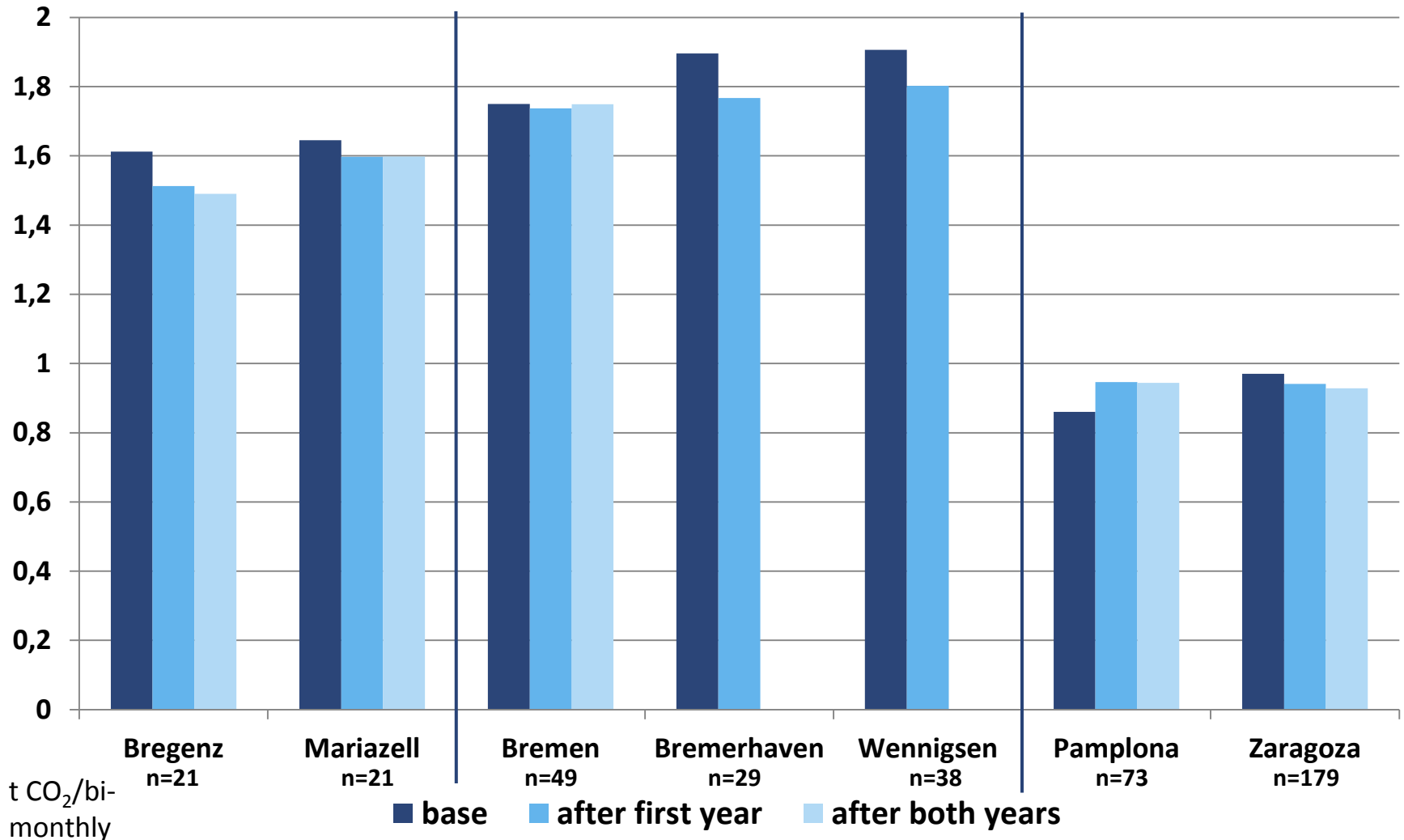
My CO₂-Emissions

	Basiserhebung	März/April		Mai/Juni	
 Consumption	0.386 t	0.386 t		0.386 t	
 Nutrition	0.310 t	0.310 t		0.310 t	
 Mobility	0.102 t	0.245 t		0.170 t	
Private traffic	0.031 t	0.058 t		0.078 t	
Public transport	0.072 t	0.188 t		0.093 t	
Flights	0.140 t	0.000 t		0.000 t	
 At home	0.085 t	0.085 t		0.025 t	
Electricity	0.006 t	0.005 t		0.008 t	
Heating	0.079 t	0.079 t		0.017 t	
 Public CO ₂ -emissions	0.19 t	0.19 t		0.19 t	
Total CO ₂ -emissions	1.068 t	1.211 t		1.076 t	
Water consumption	13 m ³	11,105 m ³		16,336 m ³	

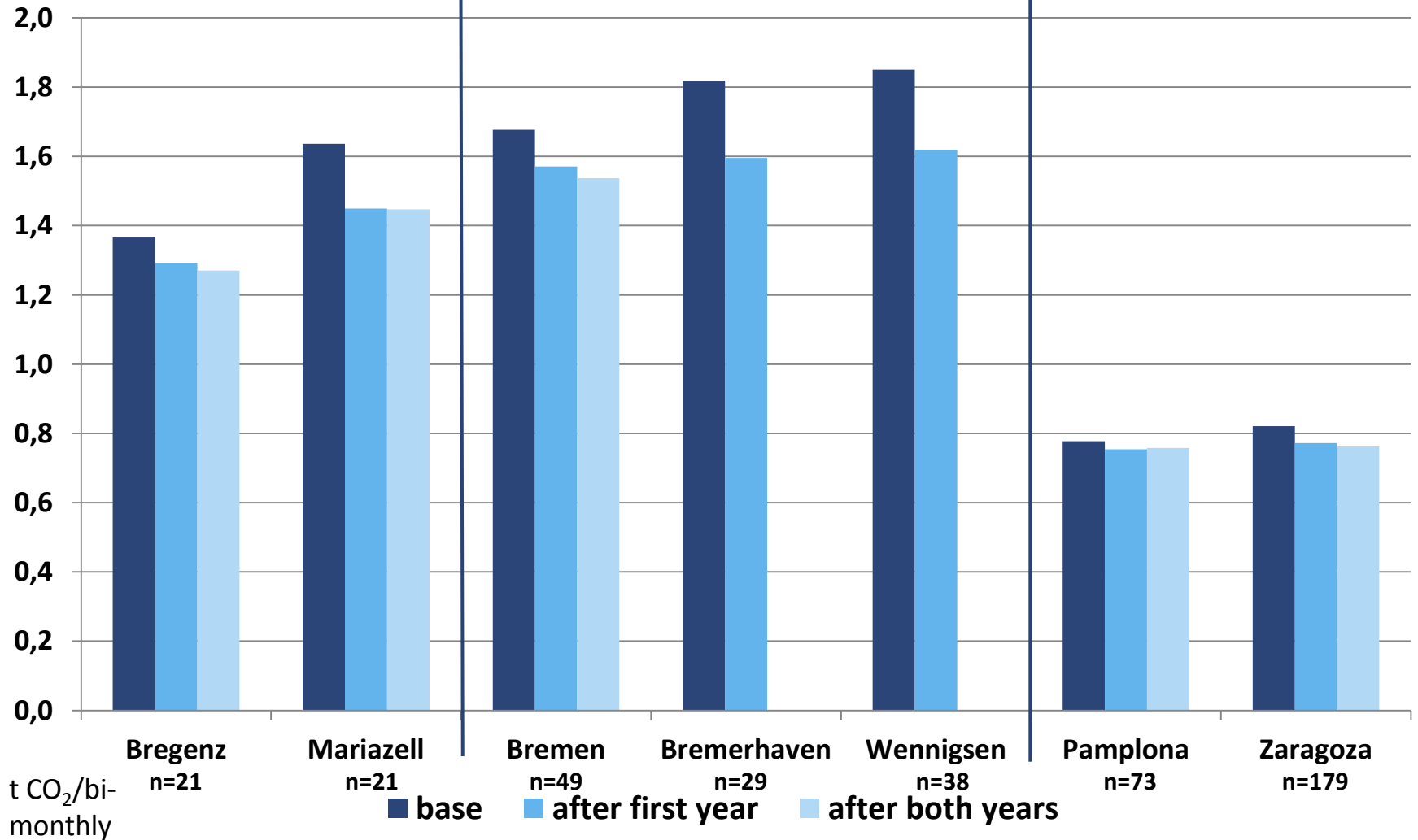


- Basic measurement
- Twelve periodic measurements (two years)
- Comparison of results

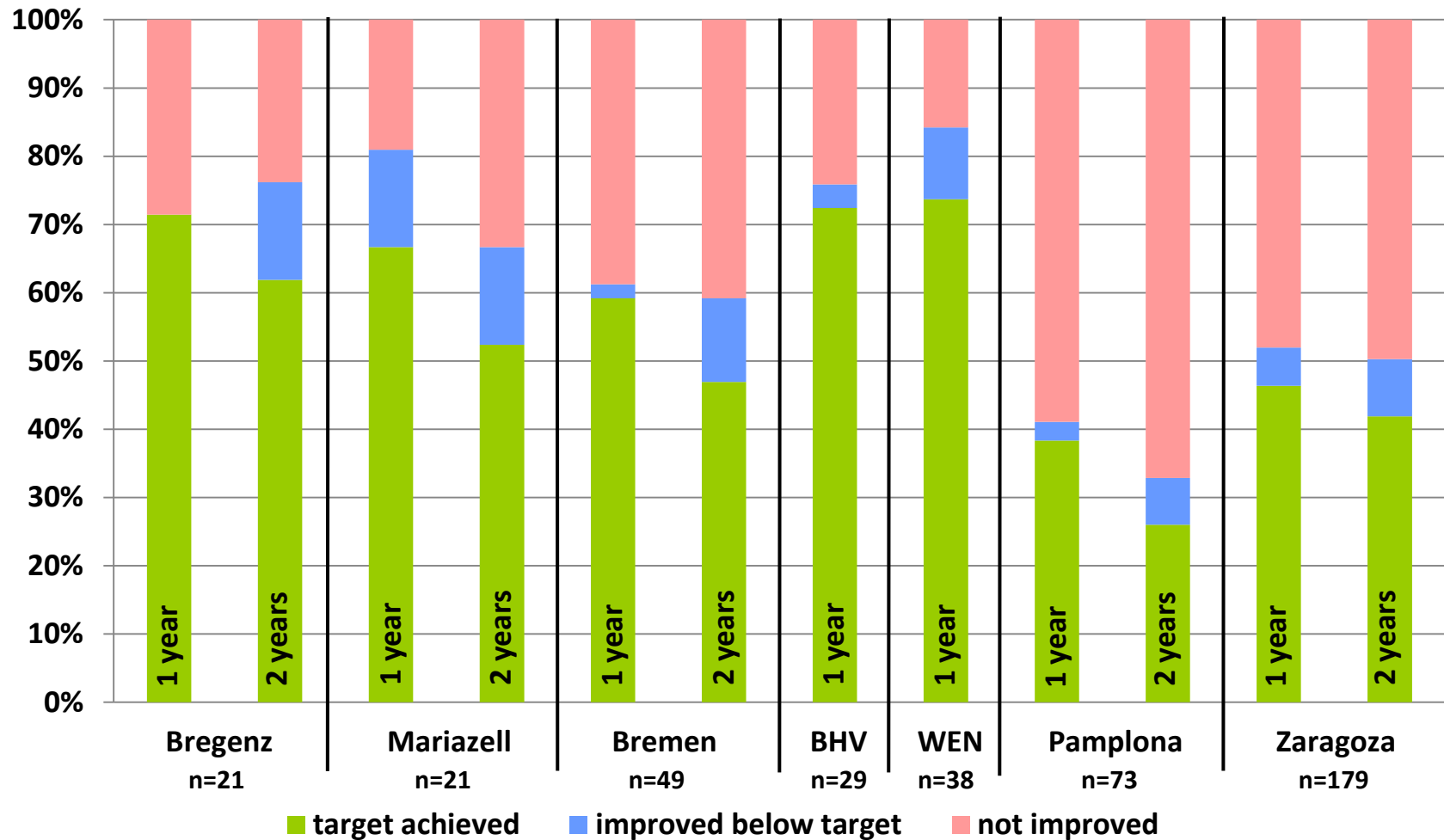
CO₂ reductions [Arithmetic average]



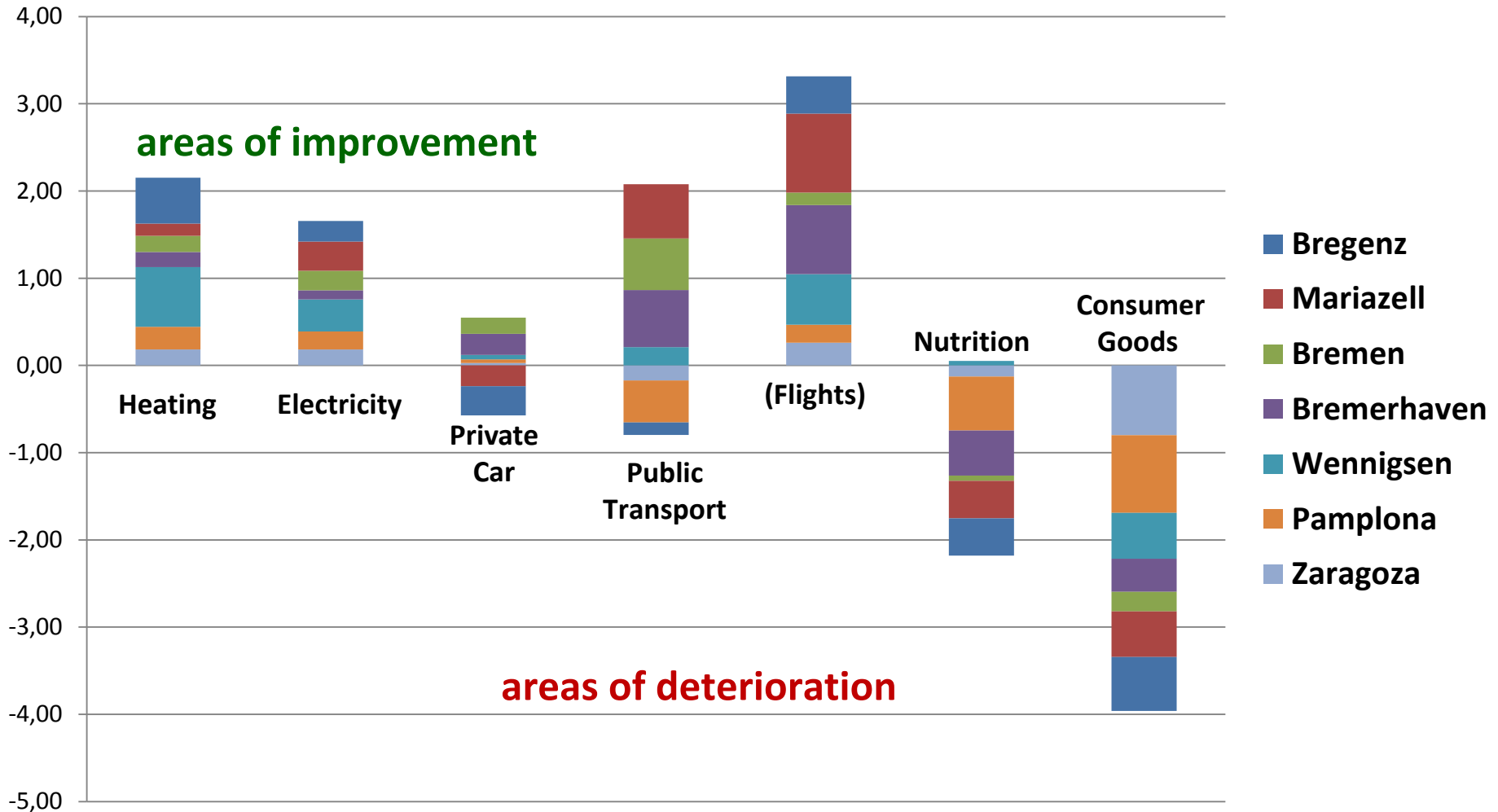
CO₂ reductions [Median]



Target achievement (2% p.a.)



Areas of improvement & deterioration

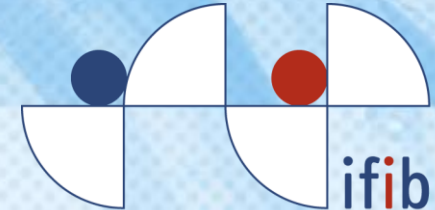


Conclusion

- Participation has an impact (e.g. on CO₂ savings)
- Improvements in at home section (heating, electricity) are easier to achieve than in those who require real lifestyle changes (mobility, nutrition, consumer goods)
- Effects of changes can't be measured ad hoc. It takes some time until changes are implemented and come into effect
- Motivation falls in longer participation periods

Conclusion

- Comparison on regional level, rather than on the international one
- Impact measurement in terms of CO₂ reduction is not a trivial task
- When evaluating the impact of participation, the context matters. The field of climate protection is particularly influenced by social and psychological factors and beliefs; behavior is not rational



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Thank you for your attention!

Any questions?

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