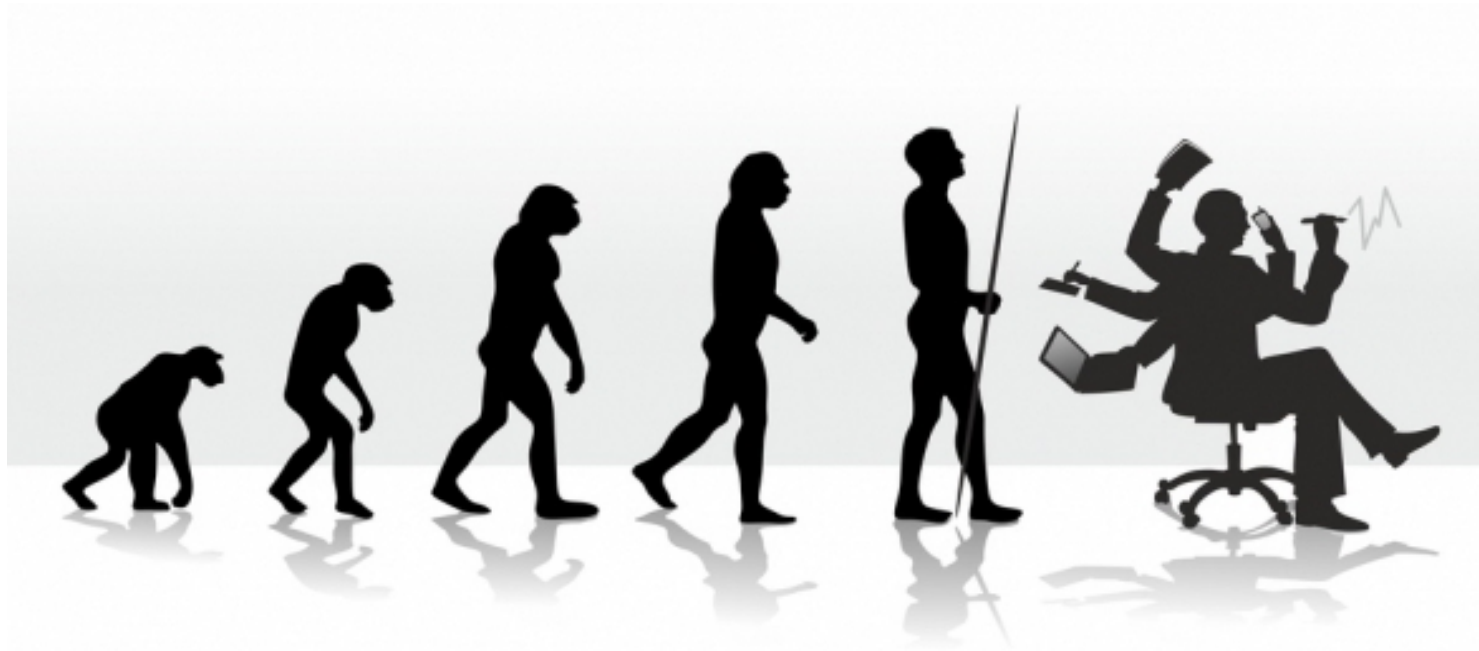


Energy sufficiency

**How can research better help
and inform policy-making?**



enough

International Network for
Sufficiency Research & Policy



International Network for
Sufficiency Research & Policy

- Created in 2017
- > 100 members
- 120 references collected
- Leading group:



**Edouard
Toulouse**
négaWatt



**Marlyne
Sahakian**
Geneva U.



**Anja
Bierwirth**
Wuppertal I.



**Leon
Leuser**
Flensburg U.



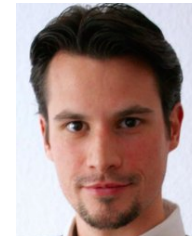
**Sylvia
Lorek**
SERI



**Lorenzo
Pagliano**
P. Milano



**Katharina
Bohnenberger**
Duisburg-Essen U.



**Riccardo
Mastini**
Barcelona U.



**Frances
Fahy**
Galway U.



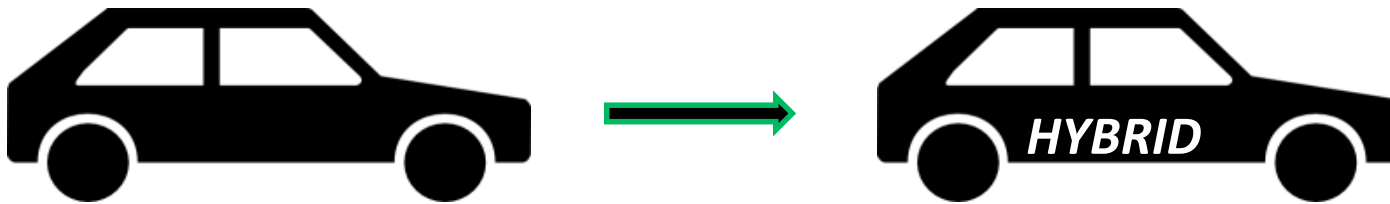
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Aim of the paper

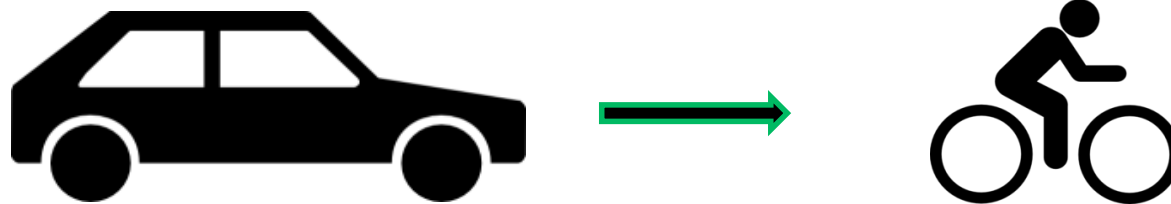
- Providing an **overview** of where research on sufficiency stands
- Discussing **research priorities** that can contribute to policy development
- Formulating **recommendations** to increase the impact of research

*... favouring **intrinsically low energy** activities, through changing the **amount and nature** of energy services we consume*

Efficiency

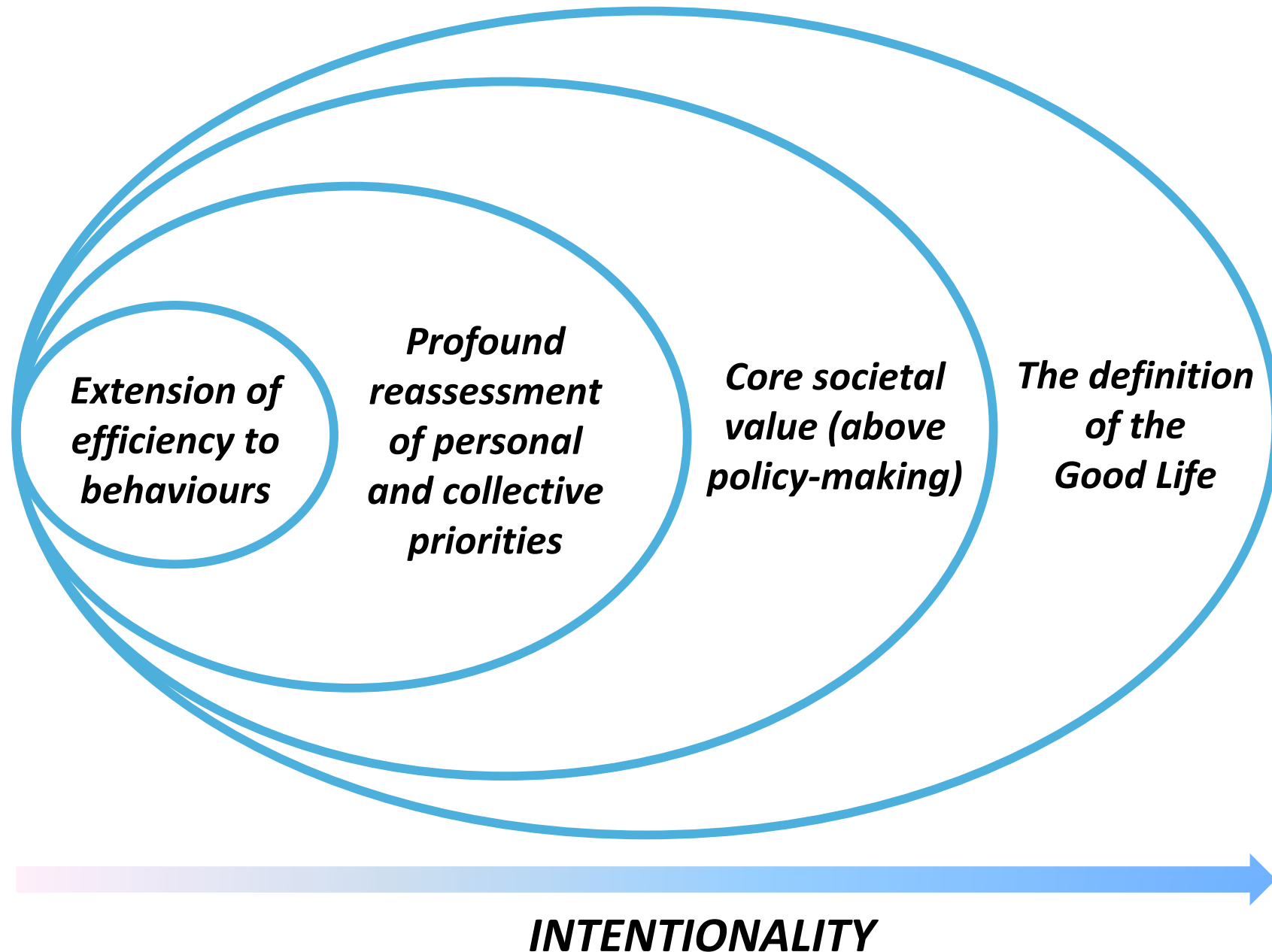


Sufficiency



***Literature overview
on sufficiency research***

#1 On the nature of sufficiency



#2 Challenges of modelling potentials



*'Sufficiency measures
were not considered for
reasons of acceptance'*

#2 Challenges of modelling potentials

Typical weaknesses in sufficiency scenarios

- Insufficient backing of assumptions
- Normativity
- Sectoral bias (e.g. sufficiency business strategies?)
- Diverging methodologies and results

#3 Understanding the barriers

DSP (materialism, consumerism)

Economic system (& growth definition)

Socio-technical lock-in effects

Social norms (e.g. comfort)

Resistance to change
in daily practices

Intangibility of
energy use



Investigating acceptance

#4 Approaches to promote sufficiency

Social innovation theories



Diffusing new models

- Early adopters
- Acknowledgement
- Opinion leaders

Behavioural approaches



Changing attitudes

- Financial schemes
- Social competition
- Nudges, etc.

Practice theories

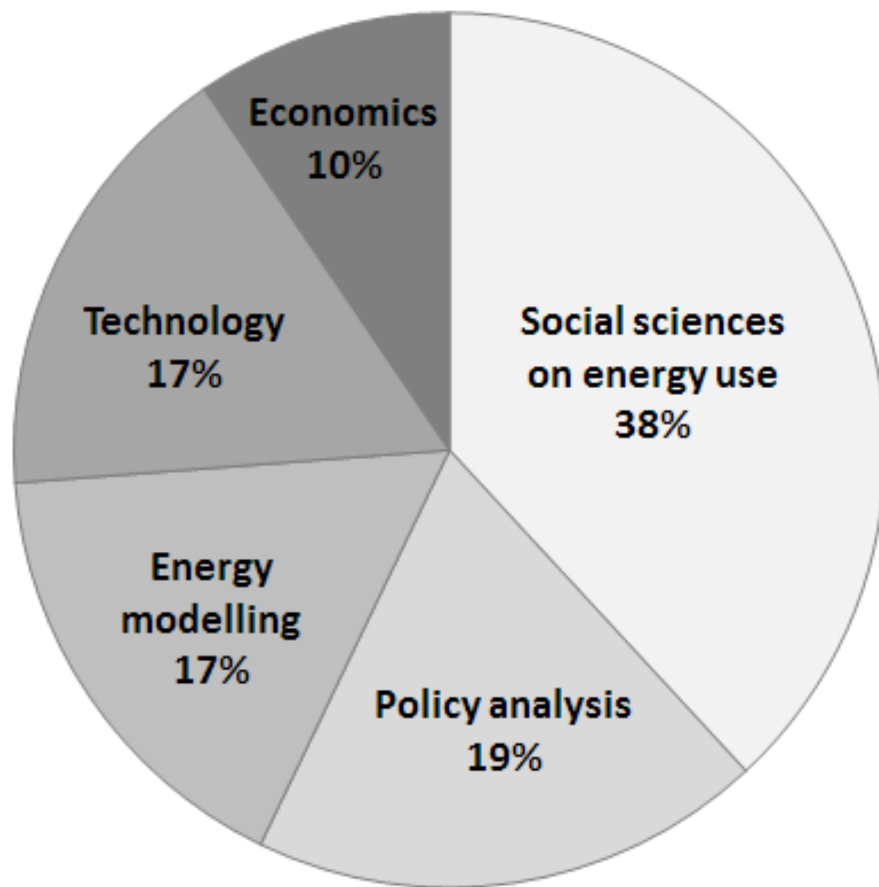


Recrafting routines

- Altering material frameworks
- Developing skills
- Changing cultures

Views from sufficiency scholars

42 respondents



- Research priorities?
- Promising policy options?
- Barriers that research can help overcome?
- Recommendations to make research impactful?

Priority areas to work on



Mobility

- Reduced car dependency
- Short-distance city planning
- Pedestrian and cycling promotion
- Lowered air traffic



Housing

- Upper limits to energy usage
- Reducing per capita living space



Food

- Shift to vegetarian, regional, seasonal and organic diets



Work

- Reduced working time
- Maximum income level
- Social justice in income distribution

Promising policy options

Macro-economics

- Taxes on resources
- Carbon caps
- Progressive energy tariffs

Communication

- Information campaigns
- Showcasing sufficient lifestyles
- Limits to unsustainable advertising

Housing policies

- Sufficiency in building regulations
- Tax adjustments
- Support to housing innovations

Product regulations

- Absolute energy use caps
- Sufficiency settings by default
- Reusability

Local planning

- Limitation of parking spaces
- Investments in soft mobility

Recommendations



Coordinating & increasing expertise

- Increasing interdisciplinarity
- Creating networks and platforms
- Developing a shared research agenda
- Alliances with other expert communities



Diffusing research

- Organising conferences and special issues
- Maintaining an up-to-date bibliography
- Promoting the scope and terminology
- Speaking to the broader public



Targeting decision- makers

- Revealing the importance of sufficiency (potentials, efficiency rebound effects...)
- 'De-demonising' sufficiency (debunking myths, showing trends...)
- Mainstreaming modelling & indicators
- Studying power at play, winners & losers

enough

International Network for
Sufficiency Research & Policy



ENOUGH



on ResearchGate

Informal session

Tomorrow at 14:00

*Building bridges in
research on sufficiency*