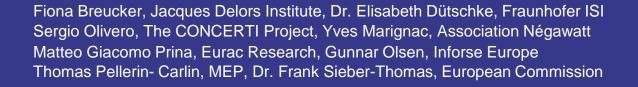




Fundamental decarbonisation through sufficiency by lifestyle changes

Less is more?
An overview of sufficiency policies to reduce emissions and increase quality of life









Fiona Breucker
Research Fellow Energy Sufficiency
Jacques Delors Institute, Energy Center



Agenda

Introduction to the session and sufficiency, Fiona Breucker (Jacques Delors Institute)

Presentation of results from the FULFILL project



Dr. Elisabeth Dütschke (Fraunhofer ISI)



Sergio Olivero (Politecnico di Torino)



Yves Marignac (Négawatt)



Matteo Prina (EURAC)

Audience engagement

Taking sufficiency to the European policy level



Yves Marignac (Négawatt)



Gunnar Olsen (Inforse)



Thomas Pellerin-Carlin (Member of European Parliament)



Dr. Frank Siebern-Thomas (Head of Unit, DG EMPL, European Commission)

Audience engagement and Discussion



Fundamental decarbonisation through sufficiency by lifestyle changes



- EU- funded research project on sufficiency
- empirical research in 5 EU countries + India
- the project included analyses of:
 - o 9500 surveys
 - 50 citizen initiatives
 - comparative analyses of 16 policies
 - 3 citizen science workshops
 - input-output models
 - quantification of sufficiency measures















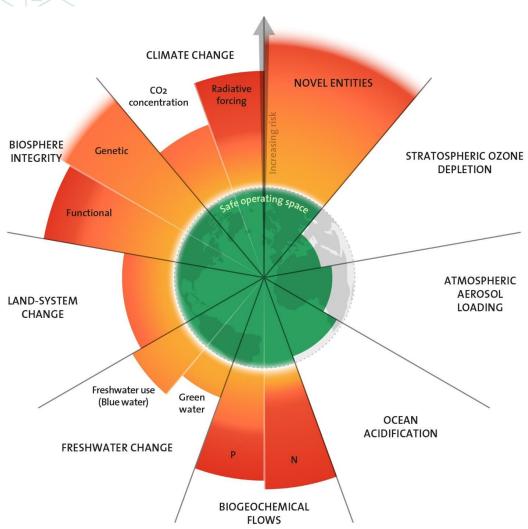




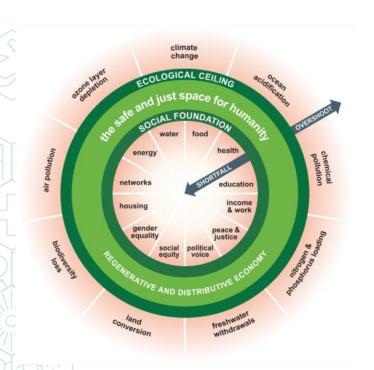




Why is this important?



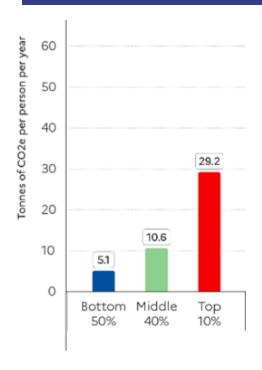
- crossing planetary boundaries threatens ecosystems and human societies.
- six planetary boundaries have already been transgressed
 - o climate change
 - biodiversity loss
 - o land-system change
 - biogeochemical flows
 - freshwater use
 - o novel entities



Well-being for all within planetary boundaries

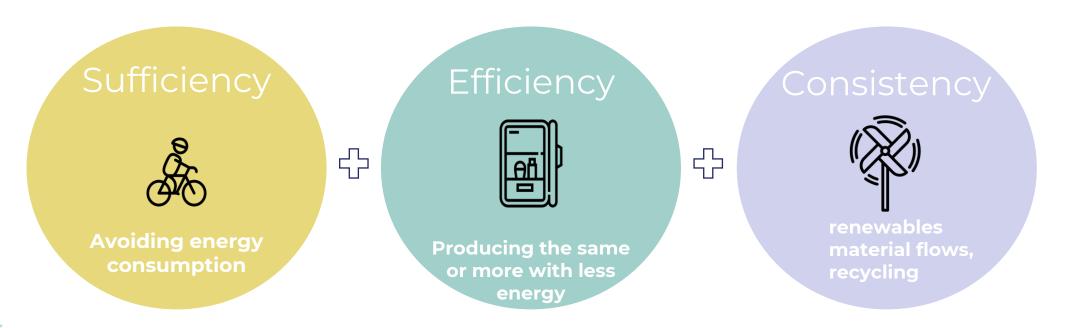
- Overshoot day for the EU was on May 3rd, 2024
- We would need 3 planets to satisfy our demand if everyone on Earth lived like Europe's residents.
- Sufficiency aims to provide well being for all without overshooting planetary boundaries!

Per capita emissions, Europe, 2019



Source: Chancel, L., Piketty, T., Saez, E., Zucman, G. et al. World Inequality Report 2022, World Inequality Lab wir2022.wid.world

Sustainability strategies



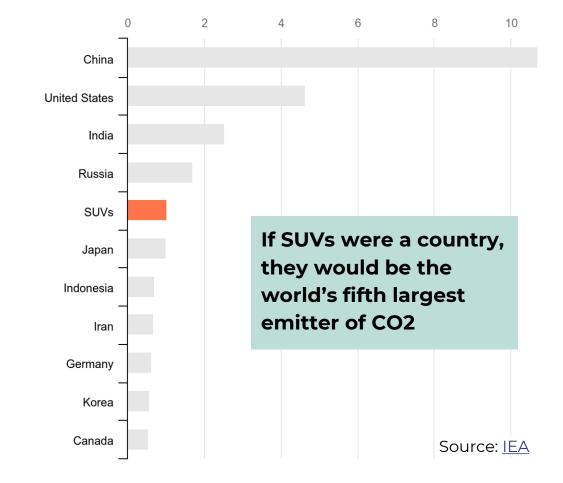
Examples

Take the car with combustion engine	cycling, public transport, car sharing, work from home	electric car	electric car with renewable electricity				
Heat all rooms at 22°C with fossil fuel boiler	put the heating to 19°C , heat less rooms	invest in building renovation	install a renewable heating system (e.g. heat pumps)				



Why do we need sufficiency?

- SUVs accounted for 48% of global car sales in 2023.
- Trend towards heavier, less efficient vehicles largely nullifies recent global gains in car emissions and energy use.
- SUV's: responsible for over 20% of the growth in global energy-related CO2 emissions in 2023
 - ~ 20% more emissions than an average medium-sized car
 - more critical materials and parking space in constrained urban areas
 - pedestrian safety





Source: Pexels





"FULFILL understands the sufficiency principle as creating the social, infrastructural, and regulatory conditions for changing individual and collective lifestyles in a way that reduces energy demand and greenhouse gas emissions to an extent that they are within planetary boundaries, and simultaneously contributes to societal well-being."

"Sufficiency policies are a set of measures and daily practices that avoid demand for energy, materials, land and water while delivering human well-being for all within planetary boundaries."

(IPCC 2022. Summary for Policymakers, p. 41)



Sufficiency needs policies and infrastructures

Policies, infrastructure, regulatory conditions, social norms

100





choosing plantbased diets



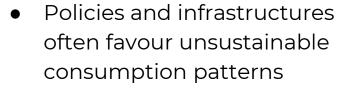
Biking and using public transport

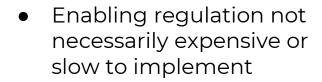


repairing and sharing goods



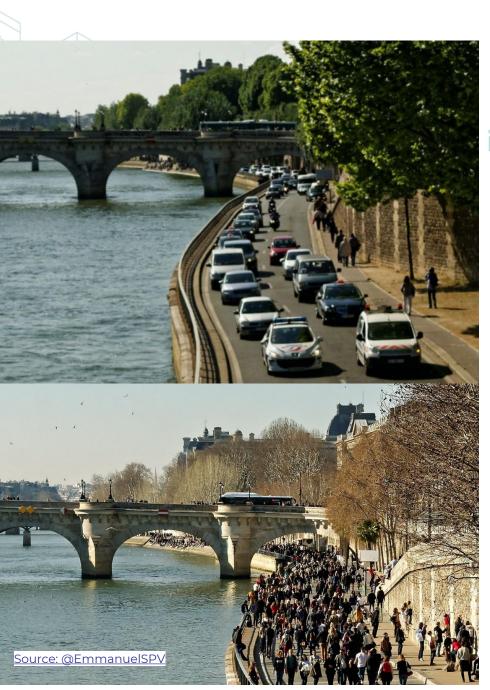
reconsidering consumption demands











Changing infrastructures







Sufficiency Video





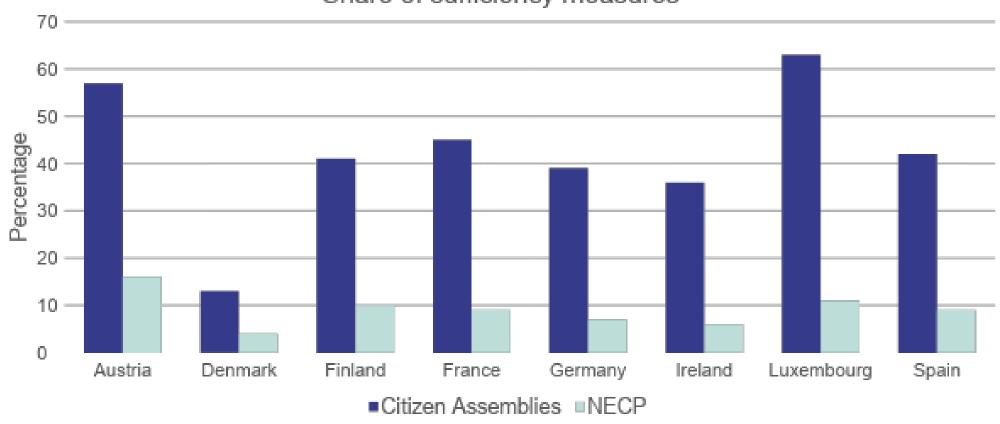


Elisabeth Dütschke

Head of Actors and Social Acceptance in the Transformation of the Energy System Fraunhofer Institute for Systems and Innovation Research ISI

European citizens and sufficiency - previous findings





Source: Lage, Jonas, et al. "Citizens call for sufficiency and regulation—A comparison of European citizen assemblies and National Energy and Climate Plans." *Energy Research & Social Science* 104 (2023): 103254.

Engaged citizens suggest sufficiency

25/05/2024



European citizens and sufficiency - studying their current views

What are everyday experiences with sufficiency?

What do unprepared publics prefer?











9500 surveyed on lifestyles 160 interviewed on daily life and sufficiency 45 initiatives studied

85 participants in citizen workshops 9900 surveyed on policy measures



European citizens and sufficiency

- everyday experience

Living in a tiny house allows me to be less a slave to work." (Woman, 25, France, tiny house)

"I always say that participating to this initiative gives me a lot of energy". (Woman, 47, Italy, reduced consumption)

Very sufficient

3-4% per country

Very low in emissions in all behavioural domains and high in well-being

Female, higher income, supporting sufficiencyoriented lifestyles and environmental identity

Partly sufficient

8-9% per country

Very low in emissions in some behavioural domains and below average overall as well as high in well-being

Eco-friendly, support for environmental policies

Deprived

12-14% per country

Very low in emissions in all domains and low in well-being

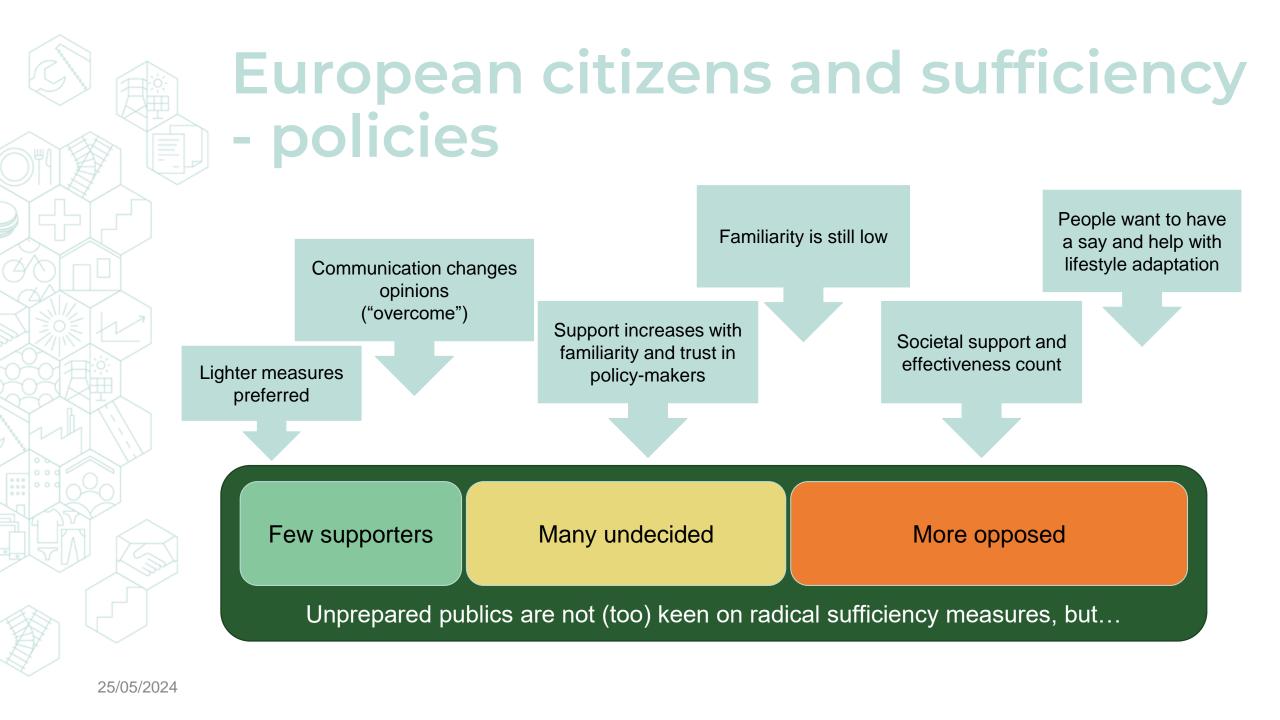
More often female, low income, not working full-time

Time availability

Income and affluence

Well-being as consequence and motivator

Sufficiency as a side-effect in joining initiatives and unknown as a concept







Sergio Olivero

Head of Business and Finance Innovation RESCOOP.EU, CONCERTI, Energy Center of the Politecnico di Torino





The CONCERTI Project

Renewable Energy Communities (REC): creating value for sustainable growth and sufficiency an Italian best practice

https://progettoconcerti.it





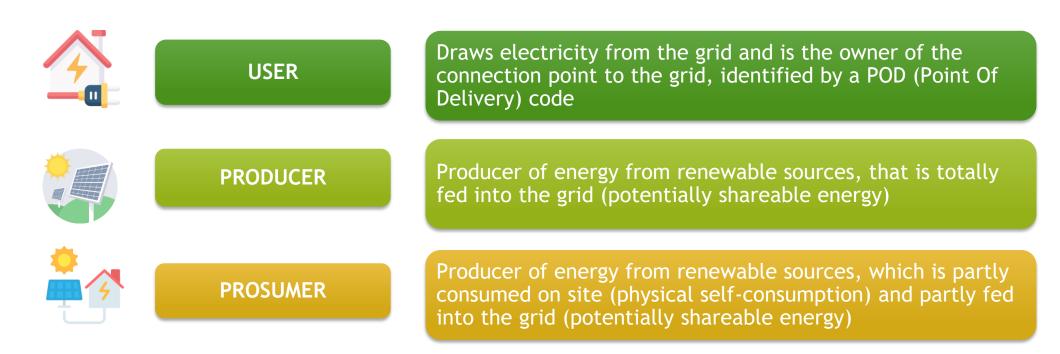




Sergio Olivero

Renewable Energy Communities (REC): definition

A *Renewable Energy Community* (REC) is a legal entity made up of energy *users*, *producers* and *prosumers* (*producers+users*) who are clustered to generate <u>economic</u>, <u>social</u> and <u>environmental</u> benefits deriving primarily from the <u>sharing of electricity</u> produced by <u>renewable</u> sources.









REC and sufficiency

On 14 July 2021 the European Commission adopted the "fit for 55" package, which adapts existing climate and energy legislation to meet the new EU objective of a minimum 55 % reduction in greenhouse gas (GHG) emissions by 2030.

A key element in the 'fit for 55' package is the revision of the Renewable Energy Directive (RED II), to help the EU deliver the new 55 % GHG target.

The revised directive (RED III) was published in the Official Journal on 31 October 2023, and entered into force on 20 November 2023.

Italy transposed the RED II Directive with the Law Dlgs 199/2021, that entered into force on 24 January 2024: the "engine" of RED II are RECs. RECs are therefore a major catalyst of fossil fuel reduction, paving the way to sufficiency.







Renewable Energy Communities (REC): Magliano Alpi and follow-ups



December 18th, 2020: the first Italian Renewable Energy
Community (REC) was founded in the City of Magliano Alpi
https://cermaglianoalpi.it/ with the scientific support of the
Energy Center of the Politecnico di Torino







April 9th, 2024: the Renewable Energy Community "CONCERTI" https://progettoconcerti.it was founded by the "Consortium Bealera Maestra Destra Stura" (CBMDS), clustering 25
 Municipalities (including Magliano Alpi) in the Province of Cuneo

starting from April 2024, the Italian Government is making € 2,2 BILLION available to support RECs in cities with less than 5,000 inhabitants







Best practice: **CONCERTI**: **REC** + water saving

The project **CONCERTI** is promoted and managed by the **Irrigation Consortium BMDS**

The Consortium is currently moving from traditional "flowing water" irrigation to pressure pipes [€ 76 million were awarded to create the infrastructure, also implying 2 MW hydropower production]



- 1) Less water needed for irrigation (pressure&focused use ? lower losses, better use)
- 2) More water **left to rivers**
- 3) Renewable energy by hydro power plants: 2MW (especially used for public lighting of cities in the night, reducing the use of energy from the grid)





The Magliano Alpi is one of the Cities partner of Consortium BMDS







http://progettoconcerti.i
t/



Promoted and managed by CBMDS

Technical partners











Best practice: **CONCERTI**: **REC** + water saving

The Consortiun is a no-profit private-law company, owned by 16 Municipalities and actively cooperating with SMEs

The Consortium BMDS have created a dedicated **no-profit company** (cooperative) in order to manage all RECs that will be activated in the area of the Province of Cuneo A digital **IoT-AI platform** is being developed

The value:

- 50% cut of water necessary for irrigation (farms located in 25 Municipalities)
- 50 MW of installed PV power [€ 45 million investment], that will save up to 25.000 tons of CO2/year and generate up to € 1.5 million/year (for a period of 20 years) for social initiatives.
- RECs will assure a circularity between production and use of energy and will give money (incentives) for people who will change their energy consumption behaviours



http://progettoconcerti.i
t/



Promoted and managed by CBMDS

Technical partners











Best practice: **CONCERTI**: **behavioural change**

In a REC, if you use energy when it is available you get incentives (about € 100/MWh), since you help matching production and consumption at local level according to a circular approach.

The matching means that you are using renewable energy produced at local level only.

Thanks to Law Dlgs 199/2021 (that transposes EU RED-II Directive), **if you change your consumption habits you get money** ② major catalyst of innovative mood towards energy transition.

The Law also states that all incentives related to energy sharing > 55% is devoted to social initiatives: CONCERTI will use this money [€ 1.5 million/year] to fund energy efficiency projects and raising awareness campaigns





THANK YOU FOR YOUR ATTENTION

Sergio Olivero



Head of Business&Finance Innovation

Chair ETIP-SNET WG5 «Innovation implementation in the business environment»

Member of the Scientific Committee of the Italian Forum of Energy Communities - IFEC

Member of the Scientific Committee of the Symbola Foundation

Vice-President of CONCERTI

President of the Scientific Committee of Magliano Alpi's REC

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Energy expert and spokesperson
Association négaWatt





Sufficiency policies

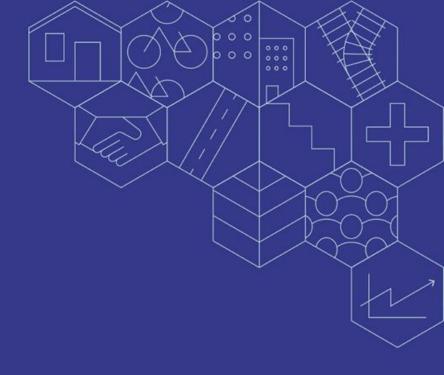
Yves Marignac, Association négaWatt

Energy expert and spokesperson yves.marignac@negawatt.org

12/06/2024



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101003656







Sufficiency levers can be identified and related policies and measures can be designed



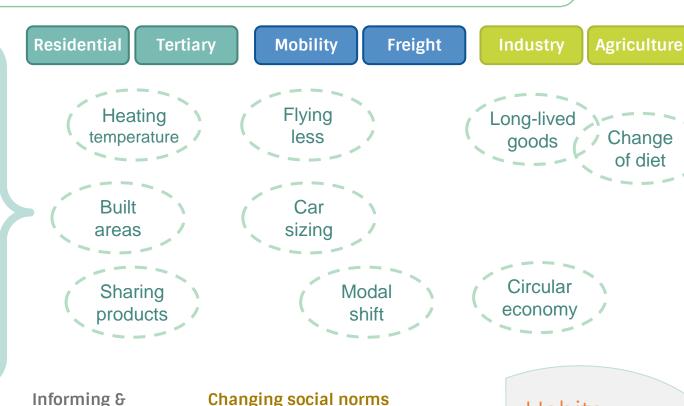
Dimensional Size. nominal capacity of equipments



3 **Organisational**

> Collective planning and sharing





& practices

Policies and measured to be developed

like for any kind of lever

Guiding & regulating innovation and markets

Regulating & adapting infrastructures

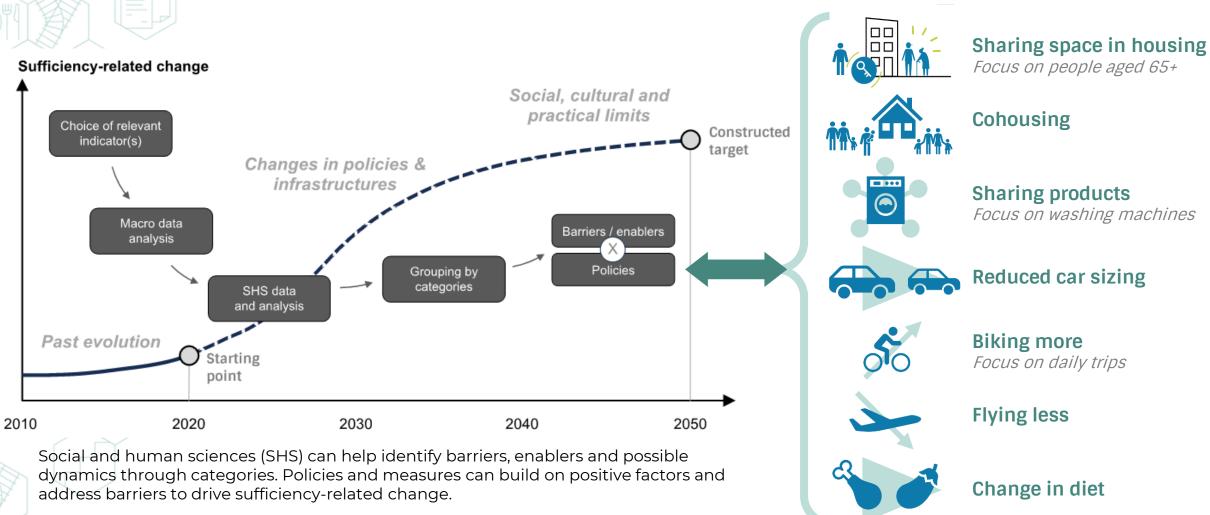
Habits Infrastructures Societal

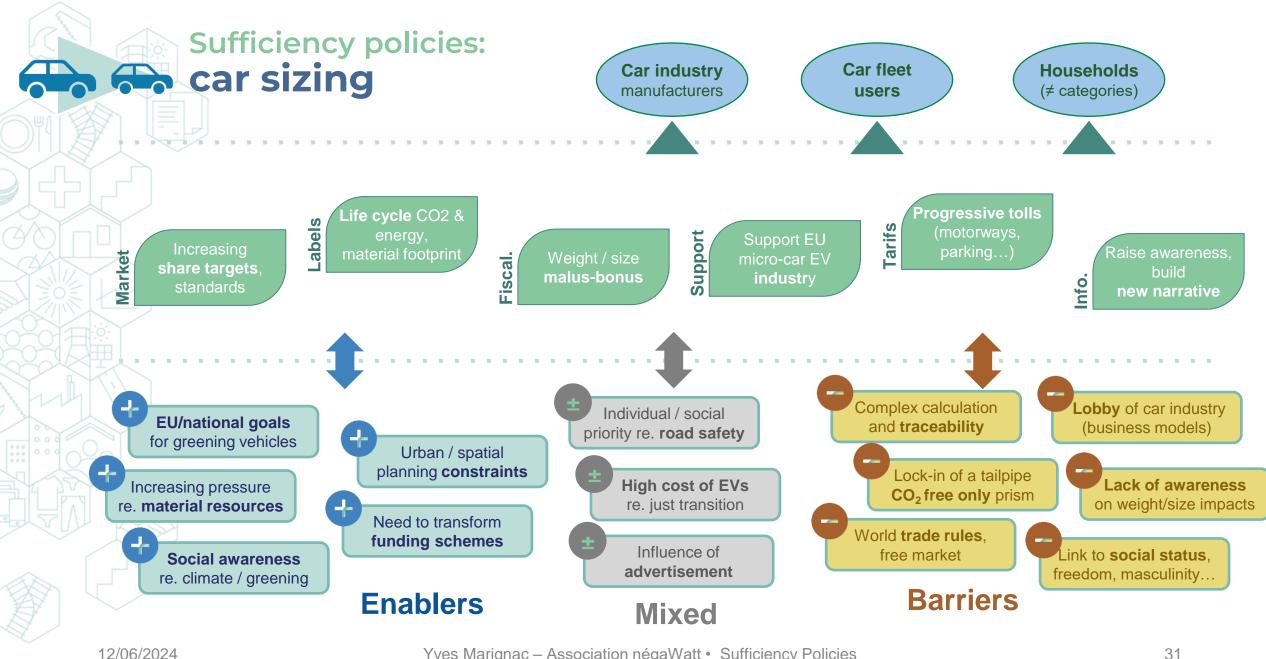
framework

Change

supporting actions

Sufficiency policies and measures can be discussed in relation with projected dynamics of possible change





<u> </u>					En	able	rs	Mixed			Barriers						
			Sufficiency policies: car sizing Policies	Existing EU/national mandatory targets on greening of vehicles	Increasing pressure on material resources consumption and extraction	Social awareness on climate change, increasing will to buy green products	Urban/ spatial planning constraints	Necessity to find sustainable funding schemes for policies for transports beyond CO2	Road safety as a political priority	Necessity to make electric vehicles more financially accessible	Influence of advertisement on vehicles	Complexity of calculation and traceability	Lobby of car industry (less profit on smaller cars, employment rates)	World trade rules and free market	Policy prism on tallpipe CO2 emissions / policy resistance to change measures	Lack of awareness on the impact of weight and size even for EV	Social incentives to own a large car (link to freedom, social status, masculinity)
		Market	Include progressive targets of share of new A et B category vehicles sold on EU market for manufacturers	+++	+++	++	+	-	+	+++	+	+	+++		+++	++	++
		Mar	Include material consumption standards/caps for new vehicles sold on EU market, including electric vehicles (EV)	+++	+++	+			++	+++	++	+	+++	+	+	++	+
		abels	Shit to a life cycle analysis to measure CO2 emissions and energy consumptions of vehicles sold on EU market	++	++	+++			++	+	+++	+	+++	++	++	+	
000		Lab	Include weight and size standards/caps in targets set for the greening of public and private vehicle fleets	+++	+++	+	+			++			++	++	++	+	
931		sal.	Include weight and size and material consumption criterion in the calculation of car energy and emissions labelling	++	+++	+++			++	+	++	++	++		++	+	+
11		Fiscal.	Include weight and size criterion in fiscal schemes targeting physic and moral persons	++	++	++	+	+	+++	+++		++	+++	+	+	+	++
		ъ.	Support the development of microcar industry in Europe to make EV accessible and relocate some of the production		+	+				+++		+	++				++
	Link	Sup.	Support the development of accessible car sharing practices in Europe, to adapt vehicles uses to the needs		+	++		+		+++		+	++		+	+	++
+++	very positive	its	National level: adapt motorway toll rates to size and weight of vehicles (existing in many country)	+++	-	+	++	+	+++	-	+	+	+++	-	++	++	+
++	positive	Tarifs	Local level: adapt parking toll rates to size of vehicles	+	-	+	+++	+++	+++	+	-		+++	-	+	+	+
+	rather positive absent		Raise awareness on the impact of size on CO2 emissions, atmospheric pollutants, energy and material consumption	++	++	++	++	++	++	++		++	+++		++	+	++
-	negative	Info.	Build a breaking narrative on mobility to tackle values and misconceptions around cars and support smaller affordable cars	++	++	++	**	++	+	++		++	+++		++	+	+++



Policies allow to target ... with different impacts different groups... at different time scales

	Policies	Target group	Qualitative potential	Delay of implementation and impact	Horizon in scenarios	Comments			
Info. Tarifs Sup. Fiscal. Labels Market	Include progressive targets of share of new A et B category vehicles sold on EU market for manufacturers	Manufacturers	Strong	Mid term	2040	Complexity to implement if not aligned with offer on the rest of the world market			
	Include material consumption standards/caps for new vehicles sold on EU market, including electric vehicles (EV)	Manufacturers	Strong	Mid to long term	2050				
	Shit to a life cycle analysis to measure CO2 emissions and energy consumptions of vehicles sold on EU market	Manufacturers	A/B	Mid term	2040	A on the efficiency of the measure B on the probability to be implemeted			
	Include weight and size standards/caps in targets set for the greening of public and private vehicle fleets	Public and private entities	A/B	Mid term	2040	A on the efficiency of the measure B on the probability to be implemeted			
	Include weight and size and material consumption criterion in the calculation of car energy and emissions labelling	Manufacturers and buyers	В	Mid term	2040	Touches private entities as well as individuals			
	Include weight and size criterion in fiscal schemes targeting physic and moral persons	Indiv. buyers, private entities	В	Short term	2030	Either through a dedicated tax, or a bonus-malus scheme			
	Support the development of microcar industry in Europe to make EV accessible and relocate some of the production	Manufacturers and buyers	В	Long term	2050				
	Support the development of accessible car sharing practices in Europe, to adapt vehicles uses to the needs	Public author., car users	В	Mid term	2040				
	National level: adapt motorway toll rates to size and weight of vehicles (existing in many country)	Owners, buyers of vehicles	с	Mid term	2040				
	Local level: adapt parking toll rates to size of vehicles	All	с	Short term	2030	Strong impact in urban areas, much more limited in rural ones			
	Raise awareness on the impact of size on CO2 emissions, atmospheric pollutants, energy and material consumption	Policy makers	с	Short term	2030	Reinforces the acceptability and feasibility of more operational policies			
	Build a breaking narrative on mobility to tackle values and misconceptions around cars and support smaller affordable cars	Entities, indiv., policy makers	С	Mid term	2040	Reinforces the acceptability and feasibility of more operational policies			

Identified sufficiency policies exist that allow to target all **sectors**, **players** and **uses**



More than 330 sufficiency-related policies and measures found in literature

sector
political target / strategy
measure / action

policy instrument

Cross-sectoral and sectoral policies, targeting various sufficiency levers, using the whole range of policy instruments



A comprehensive set of proposals to develop an EU strategy for sufficiency



Transport / mobility

Investment in infrastructures, modal shift, local urban planning, car sharing...



Energy, buildings and spatial planning

Optimising use of existing buildings, net-zero land take, progressive energy tarifs...



Materials, products, food

Material footprint reduction targets, circular economy, product design rules...



Cross-sectoral: information, taxation and finance

Public campaigns, regulated advertisement, redistributive taxation practices, funding schemes...



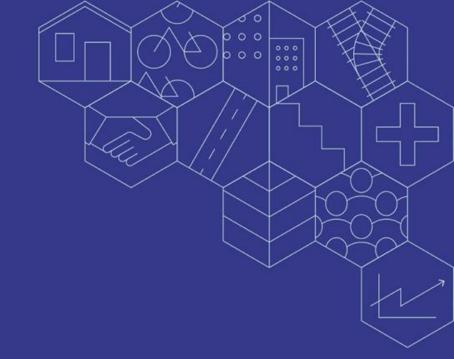


Matteo Giacomo Prina Senior researcher EURAC research

X @EUENERGYWEEK
#EUSEW2024







Fundamental decarbonisation through sufficiency by lifestyle changes

What can sufficiency contribute? Results of an input-output model



Nicolò Golinucci, Lorenzo Rinaldi, Francesco Tonini & Matteo Vincenzo Rocco, Matteo Giacomo Prina, Filippo Beltrami, Erwin M. Schau, Wolfram Sparber SESAM – Politecnico di Milano, Eurac Research 12th Jun 2024, EUSEW sufficiency session





Objective

To analyze the potential contribution of lifestyle changes and to assess the system-wide impacts of upscaled sufficiency-based lifestyle changes on climate, economy, and society at the European level.

Specific goal

To quantify the effects of sufficiency on greenhouse gas emissions, macroeconomic indicators, energy use, and resource consumption through the use of an input/output model.



Data for 6 sufficiency measures

- Diets
- Sharing spaces in housing
- · Moderate car sizing
- Sharing products*
- Biking
- Flying less

for 5 countries

- Italy
- France
- Germany
- Latvia
- Denmark

Country	Year	Transition	% impact policies	Share of people willing to reduce animal products consumption	Share of willing people actually changing	Resulting share ⁷
Denmark	2025	2021->2025	0%	26%	48%	12%
	2030	2025->2030	5%	27%	50%	14%
	2035	2030->2035	25%	32%	58%	19%
	2040	2035->2040	45%	37%	67%	25%
	2045	2040->2045	73%	43%	78%	34%
	2050	2045->2050	100%	50%	90%	45%

Modelled sub-indicators regarding diets for men in Denmark (D5.3)

*only washing machines are considered

Methods and materials

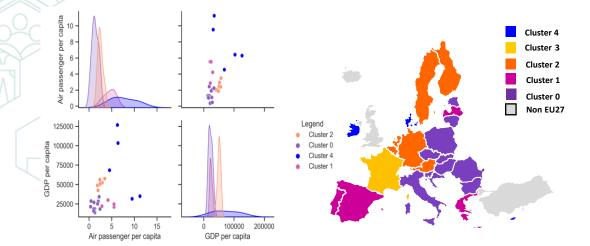
Preprocessing of data for MARIO

- **Sufficiency data for 5 countries** (Italy, France, Germany, Latvia, **Denmark)**
- Evaluation of business as usufuture trends

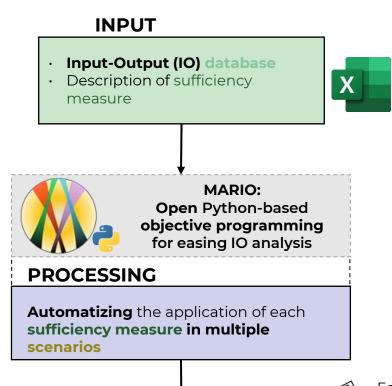


Clustering analysis to extend ? results to all EU countries

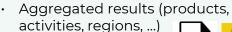




Input/output Macro-economic modelling



OUTPUT.



Results visualization





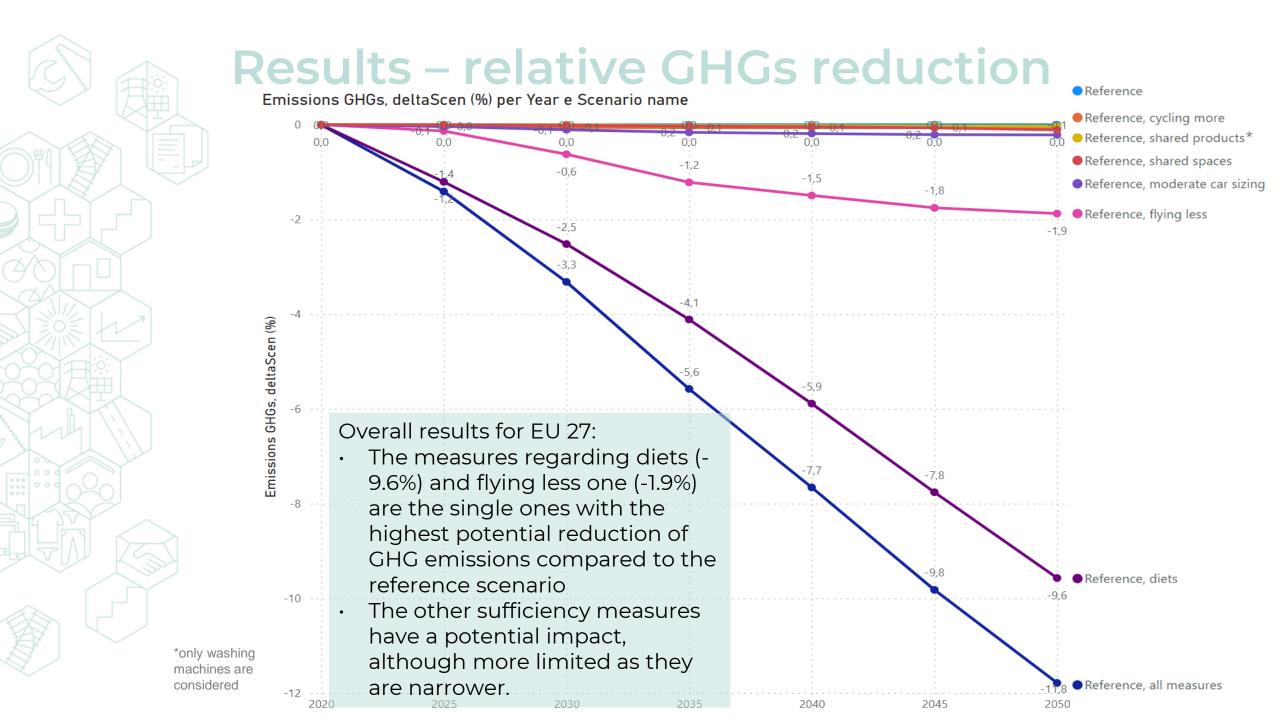
Economic indicators



Use of energy and resources



Emissions of greenhouse gases

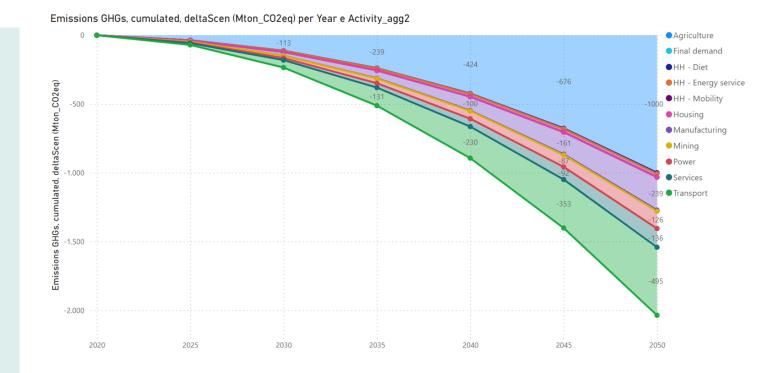




Results - cumulative GHGs reduction

Overall results for EU 27:

- Overall, from now to 2050 about 2 Gton of CO₂ equivalent can be saved thanks to these measures
- >90% of this is due to diets (1.5 Gton) and flying less (0.4 Gton)
- Main impact is on the following sectors: Agricolture, manufacturing and transport.



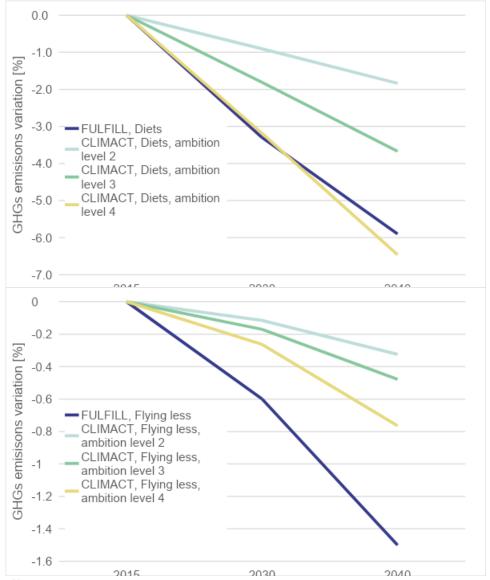


Discussion of the results

In order to understand the robustness of our results we made a comparison with the results provided by CLIMACT 2050 Pathways Explorer [1].

This has been performed for the following sufficiency measures: Diets and Flying less

The results show results in line with the CLIMACT scenario ambition level 4.



[1] CLIMACT, 2050 Pathways Explorer (climact.com)



Conclusions

Goal was quantifying the effects of sufficiency on greenhouse gas emissions, macroeconomic indicators, energy use, and resource consumption through the use of an input/output model.

- Sufficiency measures have been selected to be relevant for this evaluation: Diets,
 Sharing spaces in housing, Moderate car sizing, Sharing products, Biking, and Flying less.
 For each of them a a business as usual scenario and a sufficiency scenario have been found (for 5 countries). A clustering analysis has been used to extend what have been found for these 5 countries to all EU27
- These data have been used as input of MARIO (input/output macro-economic model)
 applied at global level with a particular focus on EU27
- Results show that, from now to 2050 about 2 Gton of CO_2 equivalent can be saved thanks to these sufficiency measures.
- >90% of the assessed potential is due to diets (1.5 Gton) and flying less (0.4 Gton). Further
 potential would need to be assessed by broadening the scope of other sufficiency
 measures
- Most affected sectors are Agricolture, manufacturing and transport.

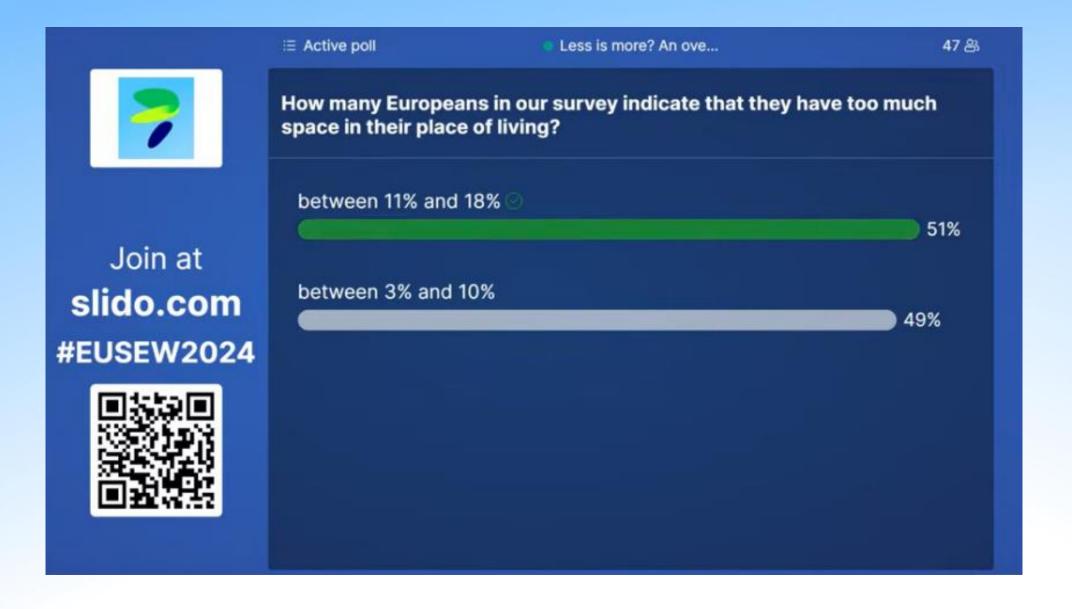


SLIDO





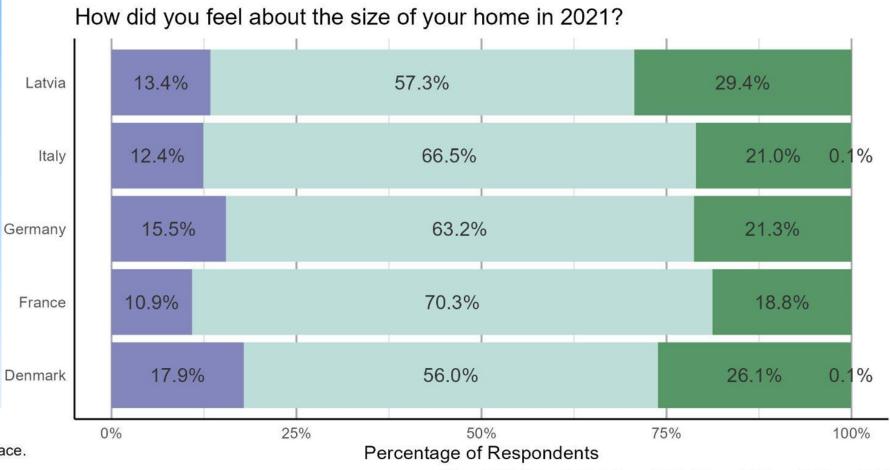












I could have done with less space.

Overall, it was fine the way it was.

I could have done with more space.

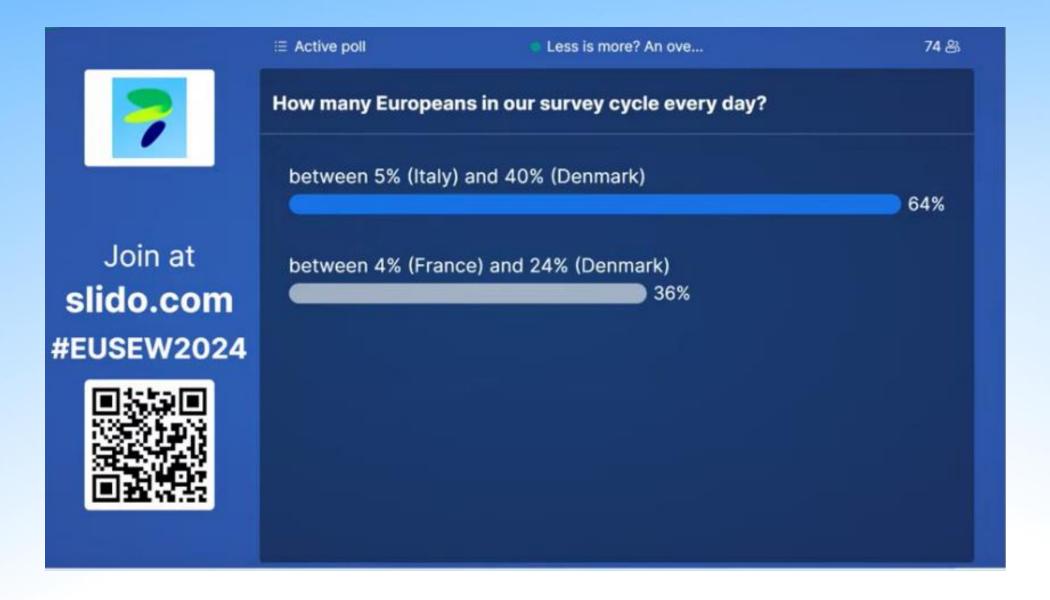
No answer / other

LV: n=1369, IT: n=1901, DE: n=1803, FR: n=1836, and DK: n=1851



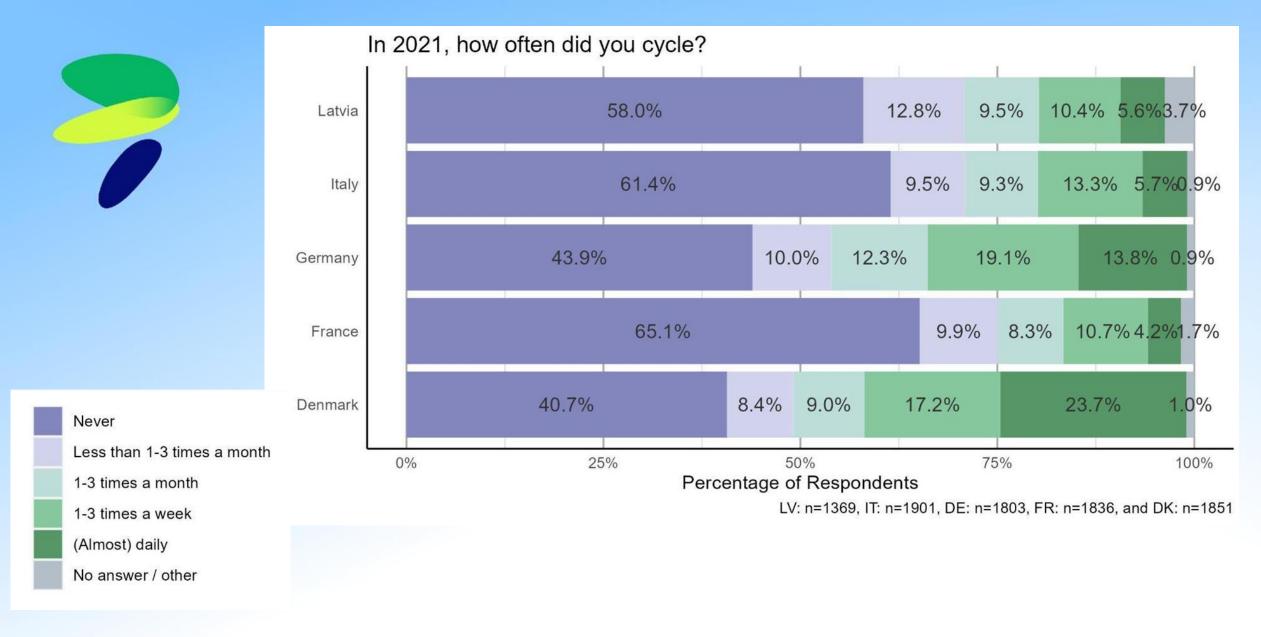




















Yves Marignac
Energy expert and spokesperson
Association négaWatt



MANIFESTO

A RESILIENT AND RESOURCE-WISE EUROPE:

SUFFICIENCY AT THE HEART OF THE EU'S FUTURE

MARCH 2024



The Sufficiency Manifesto

- A growing awareness of the role of sufficiency
- An informal "sufficiency coalition" of European organisations
- The publication of a "sufficiency manifesto", now supported by more than 90 organisations

Initiators





















Why managing demand through sufficiency policies is needed now

- Covid 19, Ukrainian crisis, geopolitical tensions and economic pressure: a **challenge** to "maintain stability in an evolving era of **polycrisis**"
- Puts questions of security of supply, strategic autonomy, and industrialisation back to the top of the EU agenda
- Meanwhile, strong ecological concerns remain and climate urgency is growing

"By putting sufficiency at the heart of its policies, the EU can set itself on the path of a resource-wise and resilient global leadership, providing a more secure, fair, and less costly transition to net zero emissions."



"Sufficiency policies are a set of measures and daily practices that avoid demand for energy, materials, land and water while delivering human well-being for all within planetary boundaries."



Sufficiency is the common denominator in the response to all aspects of the crisis, and should therefore be the common factor to political agendas

Pive reasons to make sufficiency a priority for the EU

"Sufficiency means...

a more resilient Europe"

Reducing demand and using resources wisely domestically: being less dependent on critical imports, less vulnerable to shortages, and more resilient to shocks

less costs and more competitiveness"

Sufficiency can help achieve a successful, prioritised reindustrialisation, by focusing on sectors that are strategic, reducing costs and minimising risks

facilitated achievement of our climate and energy targets"
 Sufficiency enables to deliver on EU objectives cost-effectively, making the most of the potential to implement energy efficiency and deploy renewables

a better quality of life for all"

Targeting the most unsustainable consumption patterns and ensuring redistributive access to resources to meet everyone's fundamental needs

a more sustainable Europe"

Sufficiency has the potential to rebalance EU policy in the next mandate towards strong sustainability



"Sufficiency can promote well-being and improve security and resilience across all energy-, material- and resource-intensive sectors"



Recommendations: putting sufficiency at the heart of the EU strategic agenda



Transport / mobility

- · Shifting infrastructure investments to support modal shift
- Promoting short-distance travel and a more localised provision of services & supplies
- Tackling the issue of **vehicles' size** by standards, incentives etc.
- Targeting unnecessary air traffic through specific measures



Energy, buildings and spatial planning

- · Optimising use of existing buildings and spaces rather than new builds
- · Working toward a 2050 net zero land-take target
- Measuring and reducing the whole-life carbon footprint of buildings
- Implementing circularity principles to reduce material use
- Introducing **progressive tarif** frameworks re. energy consumption



Materials, products, food

- \cdot Assessing the introduction of **binding material footprint reduction** targets
- Promoting resource and material sufficiency through product design rules
- Increasing food waste prevention and shifting to less meat intensive diets



Cross-sectoral: information, taxation and finance

- Developing public campaigns to promote sufficiency and better regulating advertisement
- Introducing taxation practices (bonus-malus...) to favour sufficiency and redistribution
- · Leveraging funding schemes for local, citizen-driven, bottom-up sufficiency projects





Gunnar Boye Olesen
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#EUSEW2024









Gunnar Boye Olesen, International Network for Sustainable Energy (INFORSE) - Europe

12th Jun 2024, EUSEW





EU is developing one NDC (National Determined Contribution) for the Paris Agreement.

The NDC for 2035 with update for 2030 is to be submitted 9-12 month before COP30 in 2025 (i.e.around end of 2024).

Each of the 27 EU countries (+Ukraine) are developing their own NECP (National Energy & Climate Plan).

- The NECPs shall add up to the EU NDC.
- Drafts NECPs were ready in 2023, final versions to be submitted June 30, 2024.

Sufficiency in National Energy & Climate Policies (NECPs), 4 countries

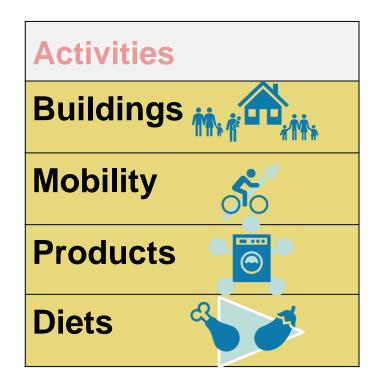
NECPs of

Denmark

France

Germany

Italy



Sufficiency policies in NECPs, overview

Reduce size and activity level

Only taxes, no direct measures except support for work from home (Germany, Italy)

Replace with less resource intensive use

Improve public transport & biking (all),
Ban short flights (France)
Save energy, move energy use in time (all)
More vegetables in diets (France, evt. Germany)
Repair label (FR), direct re-use stations (DK),
wood buildings (G)

Organisational / sharing

Only vehicle sharing and renting (Germany, Italy)

Sufficiency in NECP vs. Proposals. Example: German Buildings

	German NECP, draft 2023	Proposals for more sufficiency
Reduce size and activity	(no measures to reduce building or dwelling sizes)	 Promote co-housing Promote sharing dwelling, renting rooms Assist moving to smaller dwellings Promote well planned tiny house developments
Replace with less resource intensive use	 Energy Advice services Low-income energy advice, electricity Dynamic electricity tariffs to move electricity use in time 	 Label for energy efficient behaviour Moderate temperature in public buildings Progressive tariffs for energy
Organisational	(no measures)	Sharing as aboveReduce parking

Sufficiency in NECP vs. Proposals. Example: German Mobility

	German NECP, draft 2023	Proposals for more sufficiency	
Reduce size and activity	 Gigabit internet strategy improve work from home Aviation tax 	 Allow two days// week work from home Support to move closer to work Urban planning to reduce travel needs 	
Replace with less resource intensive use	 Investments in rail network VAT in train reduced to 7% from 19% 49€ ticket for local public transport Tax exempt job ticket and bicycle Promote rail freight, lower track charges Invest in bicycle infrastructure Special depreciation cargo bikes 	 Public transport VAT 0% Ban short-haul flights 	
Organisa tional	Tax relief for renting electric bicycles	Promote carpooling, bicycle+car sharing	



EU NDC 2023 Update from 2020	Proposals for more sufficiency	
Target of 30% reduction of GHG from EU budget funded activities	 Include sufficiency guidelines and requirements in EU funded activities 	
 Carbon pricing with ETS, in aviation and coming in transport + heating 	 Aviation tax (fuel tax, passenger tax) Support transborder railways 	
	 Sufficiency in product regulation (ecodesign, labelling) 	
	 Support national sufficiency policies and measures 	



NECP's are not Adding up to the EU 2030 Target

EU 2030 target is 55% GHG reductions 1990-2030 NECPs (2023 drafts) are adding up to 51% reduction 1990-2030 (Analysis by European Commission

Sufficiency policies can help EU meeting the emission gap



Frank Siebern-Thomas

Head of Unit



Fair Green and Digital Transitions,
Research Unit of the European
Commission's Directorate-General for
Employment, Social Affairs and Inclusion
(DG EMPL)





Thomas Pellerin-CarlinMember of the European
Parliament

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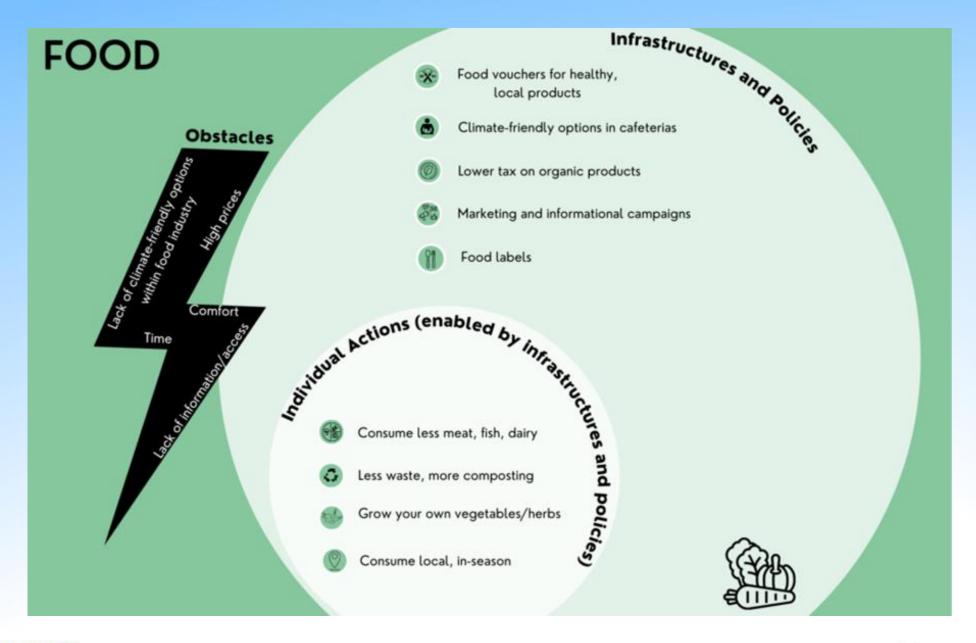








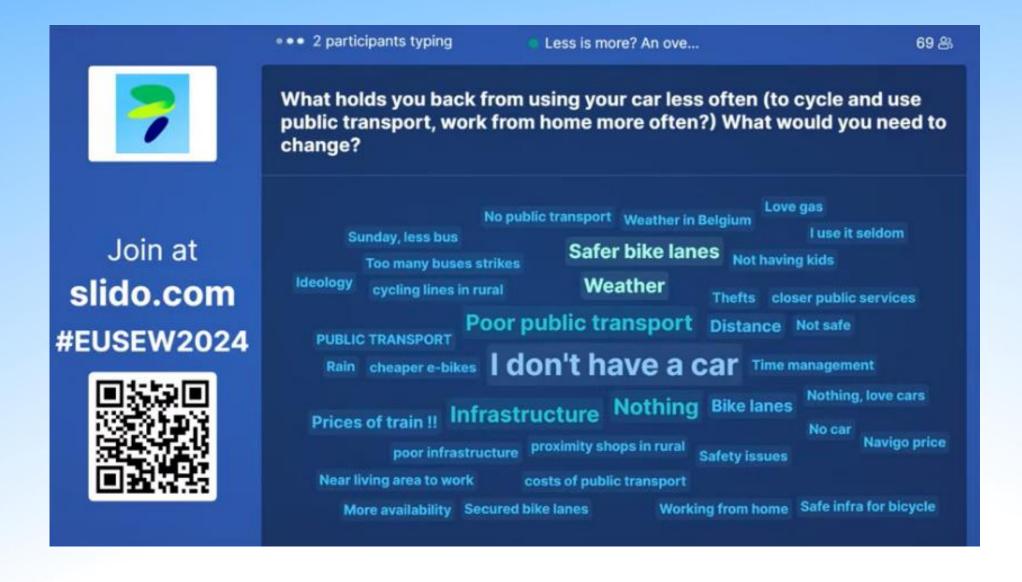








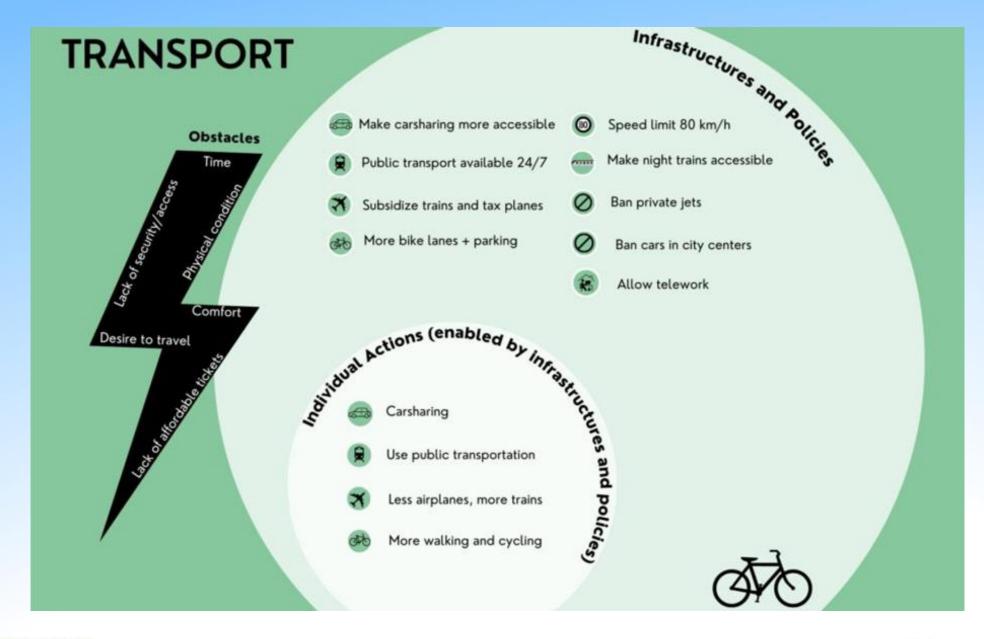


















Time for Discussion:

Any Questions?









Final Event

September, 18th 2024

15:00-17:00h

presentation of findings + networking apéro



Representation of the German Federal State Nordrhein-Westfalen Rue Montoyer 47, 1000 Bruxelles, and online



Let's keep in touch!





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