



# SMI

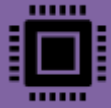
Smart Meter Inclusif

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## WP3.5 Foster the contribution of energy consumers to the energy transition

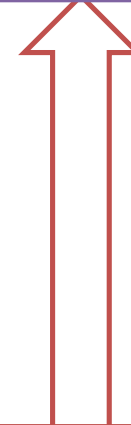
# Objectives



Build a web interface to the SMI to foster the contribution of energy consumers to the energy transition and more generally their ecological reflexivity



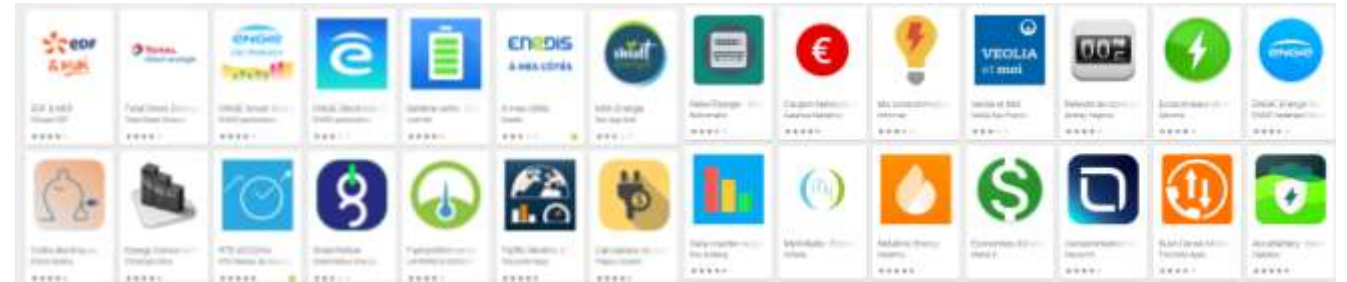
Analyse existing tools, their objectives and impacts



Investigate how individuals are facing the control of energy demand issue and their relation with dedicated tools

# Analyse existing tools

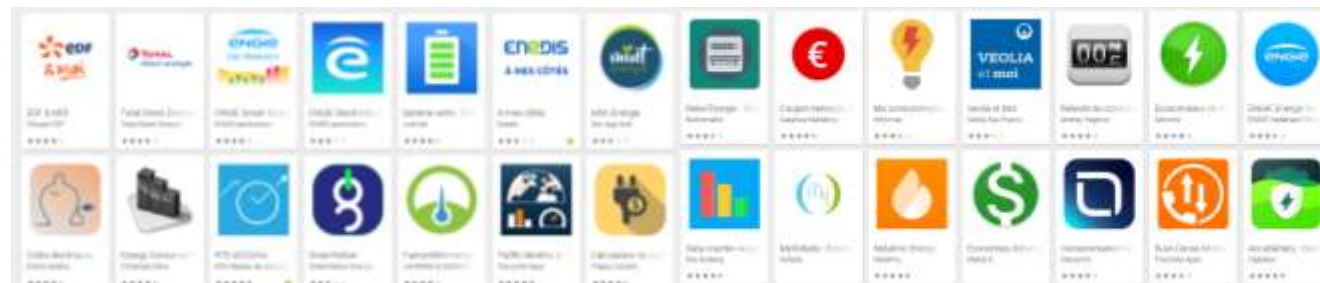
## + Litterature analysis



	Individual applications	Collective applications
Purposes	Follow and manage individual energy consumptions	General information on energy
Issues to solve	Arguments in favor of <b>ecology and carbon footprint</b> are <b>mostly absent</b> or mentioned as secondary information.	A <b>contribution to global challenges</b> : "Let's act together for the planet", "Let's act against climate change", and "Change our habits to protect the planet".
	<b>No impacts on the lifestyles</b> “while preserving your comfort”, "without impacting your comfort”, “without effort”.	
Indicators	Energy consumption in kWh. <b>Cost indicators in euros.</b>	Energy consumption per hour (in watts). CO <sub>2</sub> emissions (in grams). Quantity of uranium (in micrograms). Equivalences in terms of activity, e.g. number of km driven with a vehicle.
Advertisements	Promote new equipments and offer discounts.	-
Games	Very few games / challenges	More games and challenges

# Analyse existing tools

## + Litterature analysis



	Individual applications	Collective applications
Purposes	Follow and manage individual energy consumptions	General information on energy
Issues to solve	<p>Arguments in favor of <b>ecology and carbon footprint</b> are <b>mostly absent</b> or mentioned as secondary information.</p> <p>What sense is given to the energy soberty ?</p> <p><b>No impacts on the lifestyles</b>            “while preserving your comfort”, “without impacting your comfort”, “</p>	<p>A <b>contribution to global challenges</b> : "Let's act together for the planet", "Let's act against climate change", and "Change our habits to protect the planet".</p> <p>What understanding of indicators?</p>
Indicators	<p><b>Cost indicators in euros.</b>            Energy consumption in kWh.</p> <p>Costs may reinforce rebound effects</p>	<p>Energy consumption per CO<sub>2</sub> emissions (in grams).            Quantity of uranium (in micrograms).            Equivalences in terms of km driven with a vehicle</p> <p>Games may reinforce the idea that the energy transition is easy</p>
Advertisements	Promote new equipments and offer discounts.	-
Games	Very few games / challenges	More games and challenges

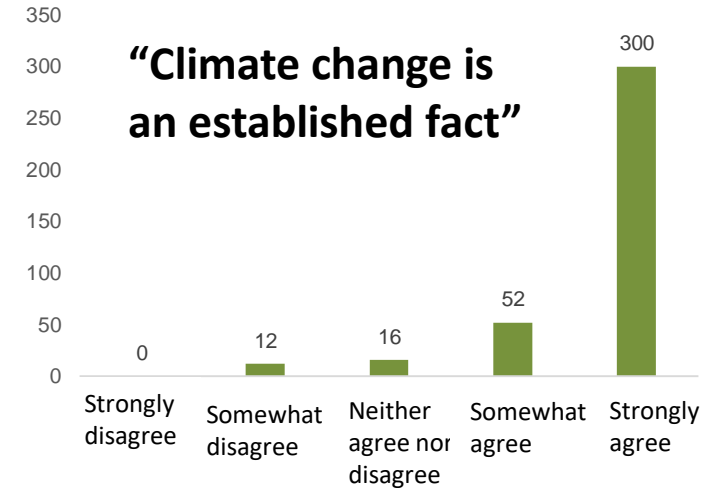
# Qualitative and quantitative surveys



- 13 qualitative interviews (Master thesis C. Ciani)
- 381 answer to an on-line questionnaire (Master thesis J. Prifti)



What representation of **atmospheric risks & energy planning** ? What links ?



What **use of tools** proposed to control the energy demand? What representation of their role in energy planning ?



What **confidence** in tools ? in the politicians to solve the problems?

# Results of qualitative surveys

Only 13 people ... Not a representative sample ~ 2 hours of open-ended questions



Aware of the need to reduce their carbon footprint (transport, food).

Energy-saving efforts but doubt regarding their impacts. What's about the others? Feel disarmed face to climate change.

Energy savings more for financial concerns. Influences of personal conditions (e.g. divorce) and weight of energy costs in the global household budget

Little knowledge on the energy transition objectives

Comparisons with other households induce feelings to be in the norm

Additional mental burden for others

Applications used only by one member in the family. Help to reinforce existing energy-saving behaviors. Need more information to reduce their consumptions

Tools / Technological solutions felt as useless to help the energy transition

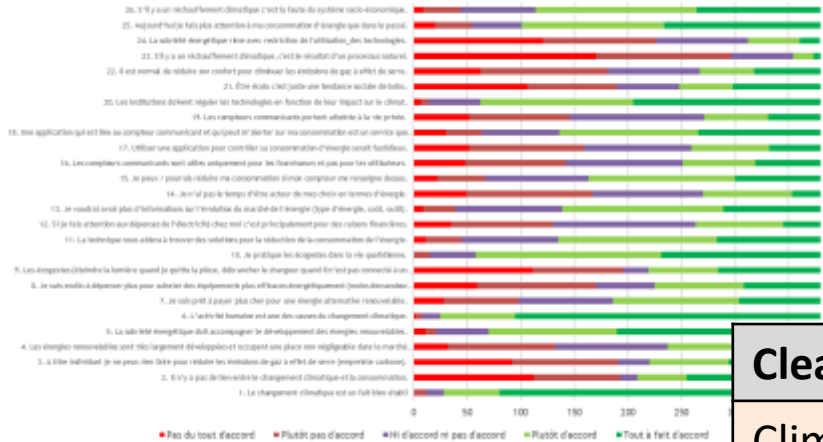
General distrusts in politicians concerning actions on climate change <> Look for advices in their close network

Concerned about security and protection of their personal privacy



# Additonnal results of quantitative surveys

## A questionnaire : 381 answers in FR + Still running in DE



<b>Clear signal</b>
Climate change is an established process, and is due to human activity
Energy-savings necessary in accordance with renewable energy development
Daily energy-saving efforts performed.
Tools can help the energy transition

<b>Not a clear signal</b>
Links between climate change and energy transition
Awareness of own potentials to reduce of carbon footprints
Little knowledge on the energy transition objectives
Understanding of goals and usefulness of the tools.
Reasons of energy savings : financial/ecological concerns
Regulation of technologies to reduce the carbon footprints

# SMI web interface



Need to remind the context of the energy transition, collective and global challenges.



## AWARNNESS

- Explain the collective challenges of the energy transition
- Propose an evaluation of the carbon footprint using the ADEME's "Nos Gestes Climat" tool
- Visualize the global electricity consumption with graphs



## UNDERSTANDING

- Visualize electrical consumption by equipment
- Propose eco-actions to experiment
- Propose the monitoring of other energy consumptions (gas, wood, fuel), water and goods



## ACTIONS

- Invite to reduce energy consumption for ecological goal and not economic goal
- Propose to share experience



# SMI web interface

To be ready soon.

Hope to be able to test it before the end of the SMI project



Diverse user/citizens profiles

## SMI

Explain the collective challenges of the energy transition  
Visualize the global electricity consumption and per equipment with graphs



## DIY

Propose eco-actions to experiment  
Propose the monitoring of other energy consumptions (gas, wood, fuel), water and goods



## NGC

Carbon footprint using the ADEME's "Nos Gestes Climat" tool



Need to propose diverse « tools » to foster the contribution of energy consumers to the energy transition.

SMI is only one.

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Europäischer Fonds für Regionale Entwicklung (EFRE)

Dépasser les frontières : projet après projet  
Der Oberrhein wächst zusammen, mit jedem Projekt



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Thanks for your attention  
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Thanks to Paul Salze, Ali Moukadem, Clémentine Ciani, Joana Prifti,  
Léonard Paillet, Benjamin Battistini.

23/11/22

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