

BASQUE CENTRE FOR CLIMATE CHANGE Klima Aldaketa Ikergai

INTRODUCTION & MOTIVATION

- Residential building sector is a major driver of current energy consumption and associated CO2 emissions
- Majority of the fuel heating system uses still comes from fossil fuels
- In Spain, 18% of total energy is consumed by households, and 44% of that energy is for heating
- Understanding behavioural aspects of energy use and energy saving complement the main factors supporting energy consumption for heating (socioeconomic development, architectural design or climate)
- Policy effectiveness highly depends on behavioural decision-making by households
- Policy makers need to better understand consumers' behaviour to design effective energy savings strategies

Energy decisions in heating consumption: results from fuzzy cognitive mapping

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OBJECTIVES

To learn more about the determinants of households energy consumption for heating

To find out what policies can effectively help to encourage low carbon behaviour

HOW?

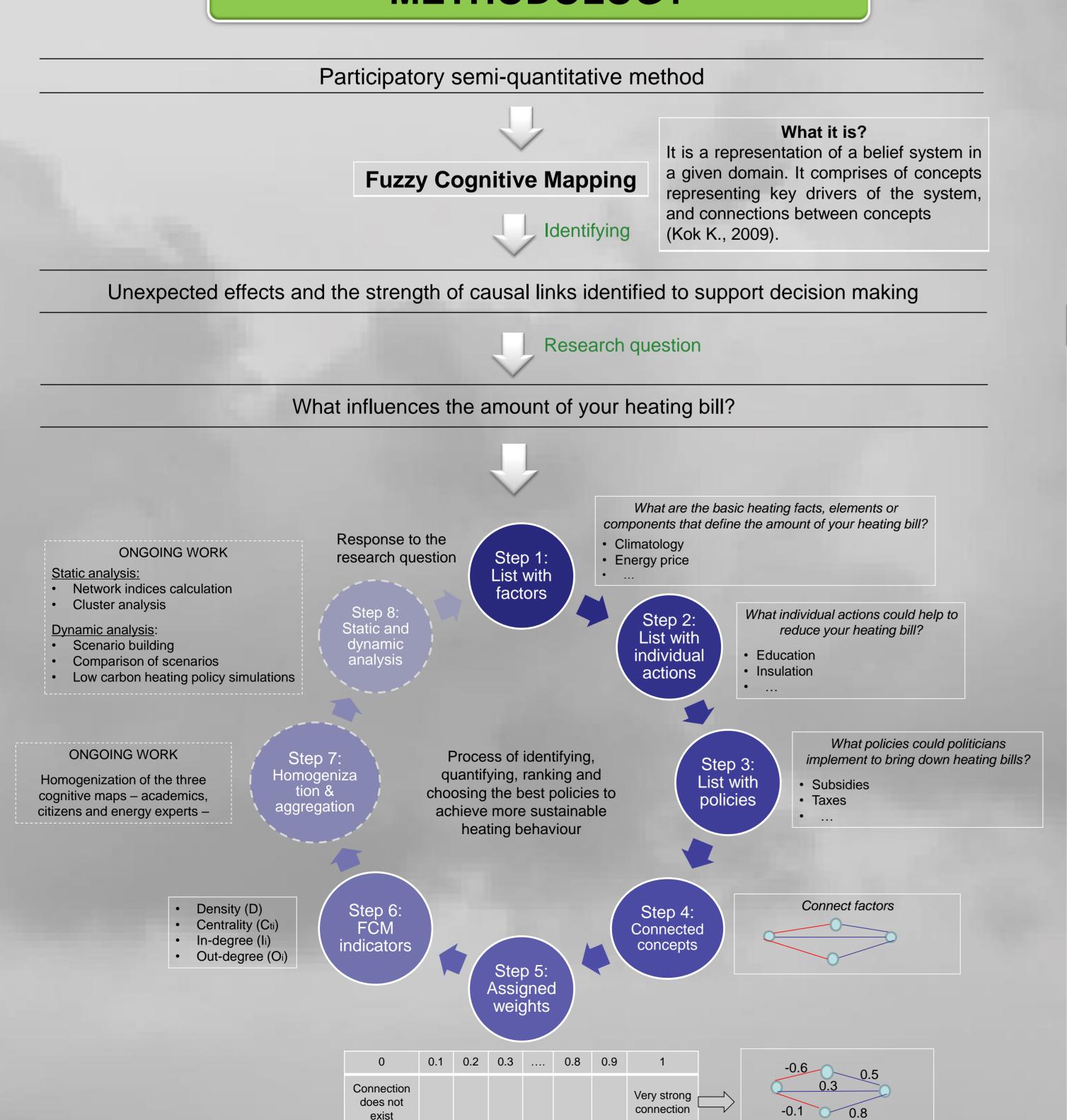
Assembling knowledge, expertise and perceptions from different social groups: users, researchers and managers of the energy system

Confronting different population in the same group so as the reach a consensus

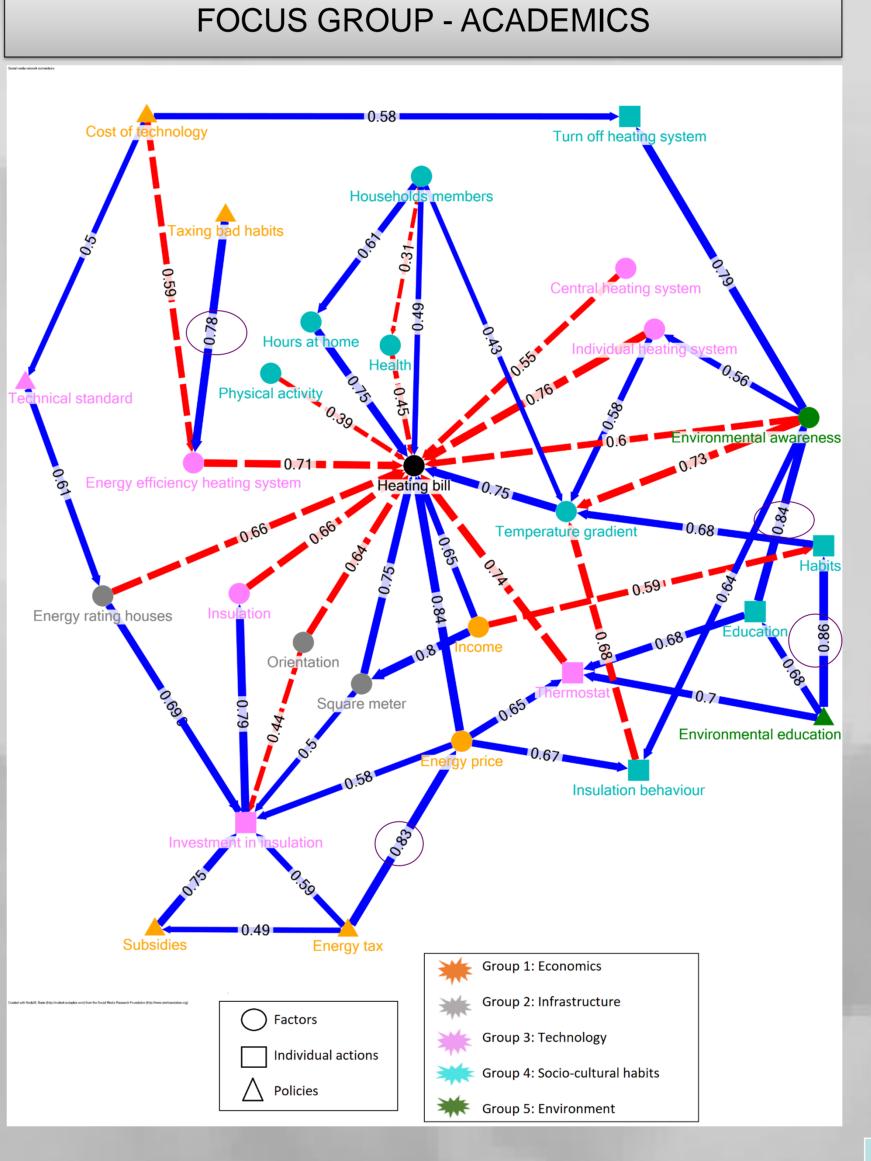
DATA

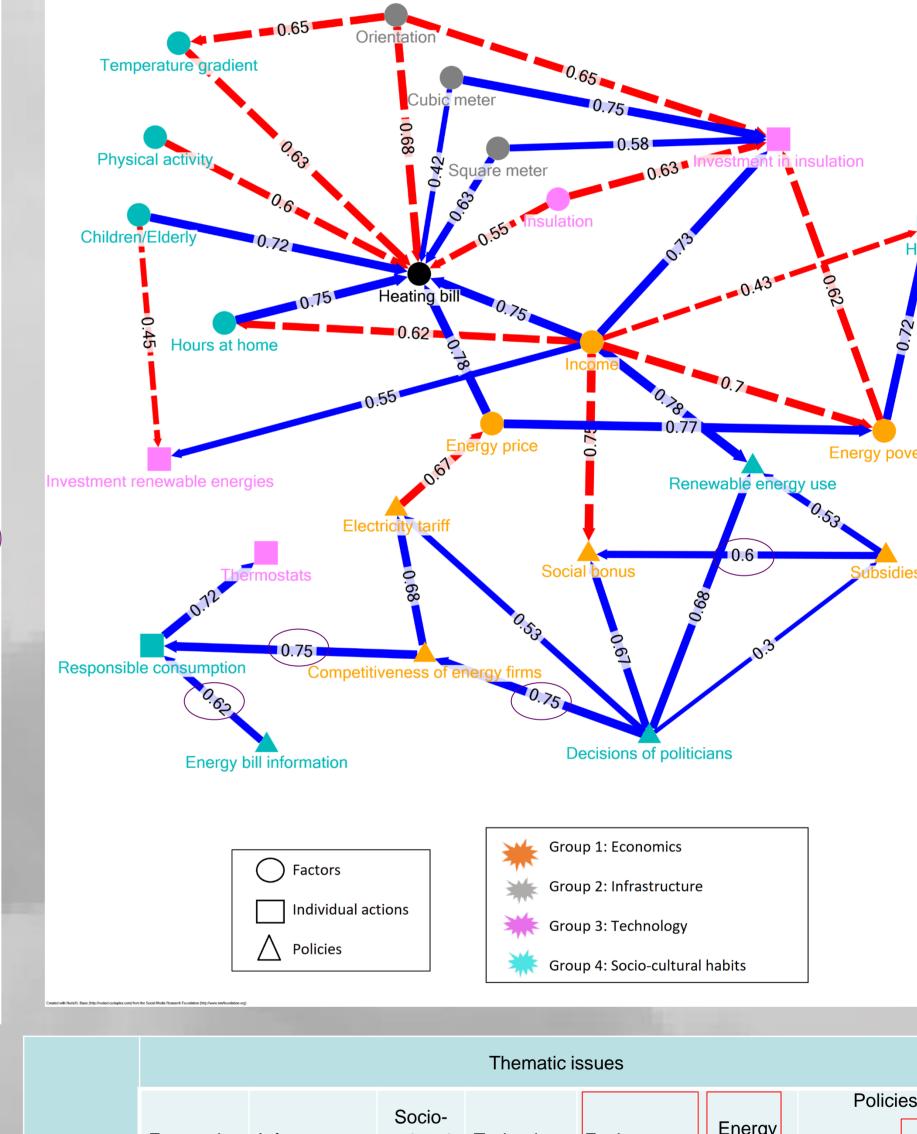
Focus groups	Participants number and characteristics	When?	Where?
Academic Focus Group	10 participants Experts in energy, environment and climate change	December 20 th , 2017	Basque Centre for Climate Change Bilbao, Spain
Citizens Focus Group	8 participants Gender, Studies, Age, Income, Type of dwelling, Member of households, Heating system	January 23 rd , 2018	Bilbao, Spain
Energy experts Focus Group	7 participants	January 31 st , 2018	Spanish Association for Energy Economics (AEEE in Spanish) Zaragoza, Spain

METHODOLOGY

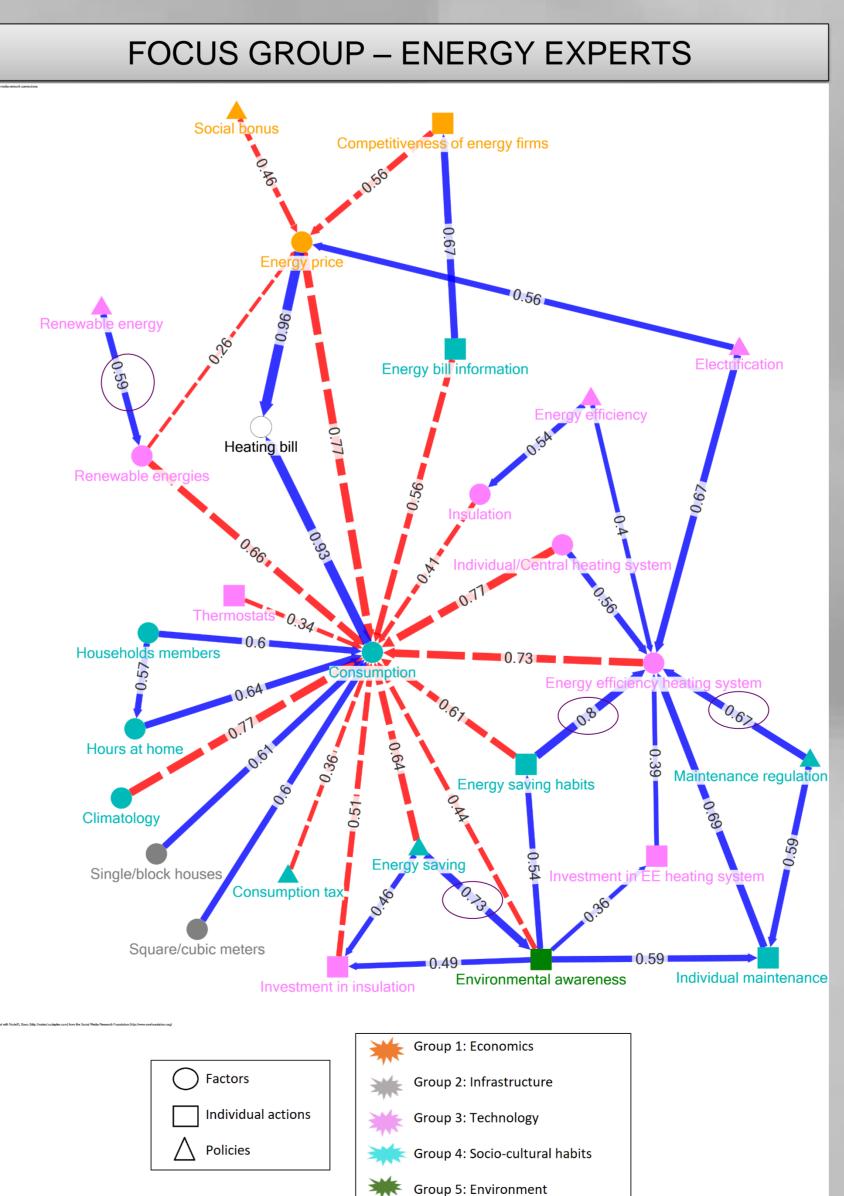


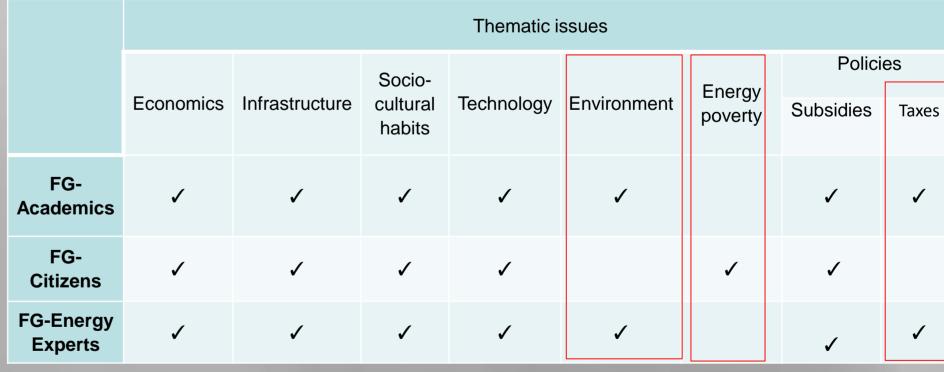
RESULTS





FOCUS GROUP - CITIZENS





CONCLUSIONS

Effective policy instruments

Taxing bad habits and/or fossil fuels for heating

- To stimulate use of energy efficient heating systems →
 to reduce energy consumption
- To reduce energy consumption
 To motivate investment in insulation
- To implement subsidies or rebate schemes

Subsidies

- For the use of renewable energy
- To contribute alleviating energy poverty (social bonus)

Environmental education policies

To help people understand energy bills

Policies to help people understand energy bills
To lead to more responsible consumption habits





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