

12th International Conference on Energy and Climate Change,
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B-EU EFFICIENT

Dr. Popi KONIDARI

Research Fellow
KEPA of NKUA



HELLENIC REPUBLIC
National and Kapodistrian
University of Athens
EST. 1837
KEPA



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Structure

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B-EU EFFICIENT at a glance

- **Title:** Conceptualising, modeling and promoting energy efficiency behavior for the EU
- **Duration:** 36 months
- **Partners:** 5 (Greece, UK, Luxemburg, Italy, International organization – Turkey)
- **Type:** Research and Innovations Actions (RIA)
- **Topic:** LC-SC3-EE-14-2018-2019-2020 – “*Socio-economic research conceptualizing and modelling energy efficiency and energy demand*”



Partners

- **(Coordinator)** Energy Policy and Development Centre (KEPA) of the National and Kapodistrian University of Athens (NKUA) – **Greece**
- Centre for Energy Policy, University of Strathclyde (STRATH-CEP) – **United Kingdom**
- ModlEcon S.á.r.l – S. (ModlEcon) – **Luxemburg**
- SWIDE Srls. (SWIDE) – **Italy**
- BSEC Organization – Green Energy Network (BSEC-GEN) – International Organization



Problem

Under the complexity of EU economy & energy policy, different impacts of Energy Efficiency (EE) policies need to be explored using data & behavioural variables of the demand side.





Concept

Develop novel “soft-link” between Computable
General Equilibrium Model, Agent – Based Model,
HERON – DST and AMS.

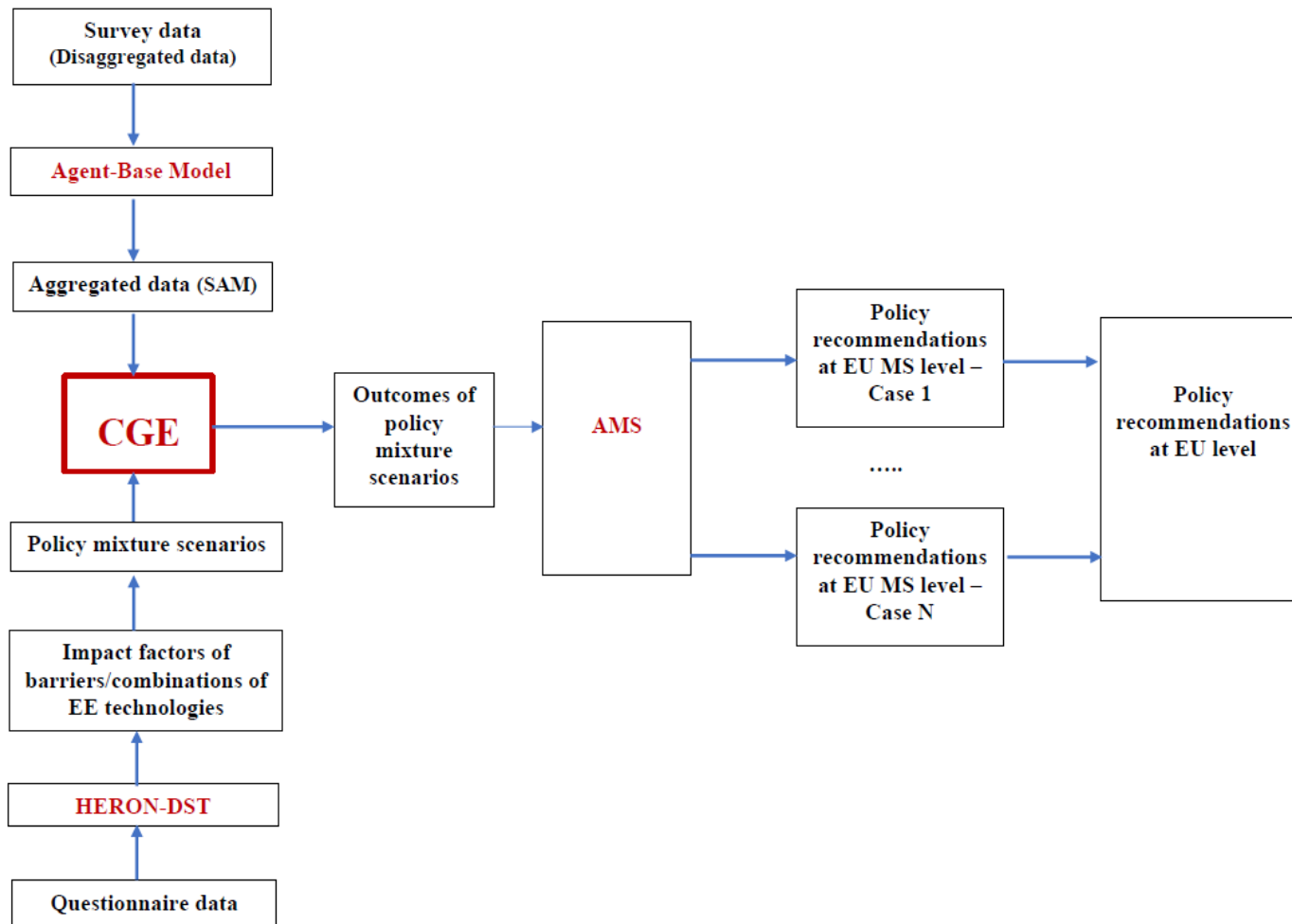


Ambition

- Introduction of “bottom up” information from consumer surveys so as to disaggregate household energy use in a CGE model.
- Use of HERON-DST to develop scenarios for the CGE analysis.
- Deliver a methodology by combining the strong points of all used models/tools.



Methodology



National cases -1

- Greece
 - In contrast to EU – very little decoupling between energy consumption and economic activity
 - Economic recovery is an opportunity for supporting EE, increase share of natural gas and RES in energy mix





National cases - 2

- Italy
 - Strong economy
 - Recovery from a fierce recession
 - Energy intensity lower by 18% than EU 28 in average

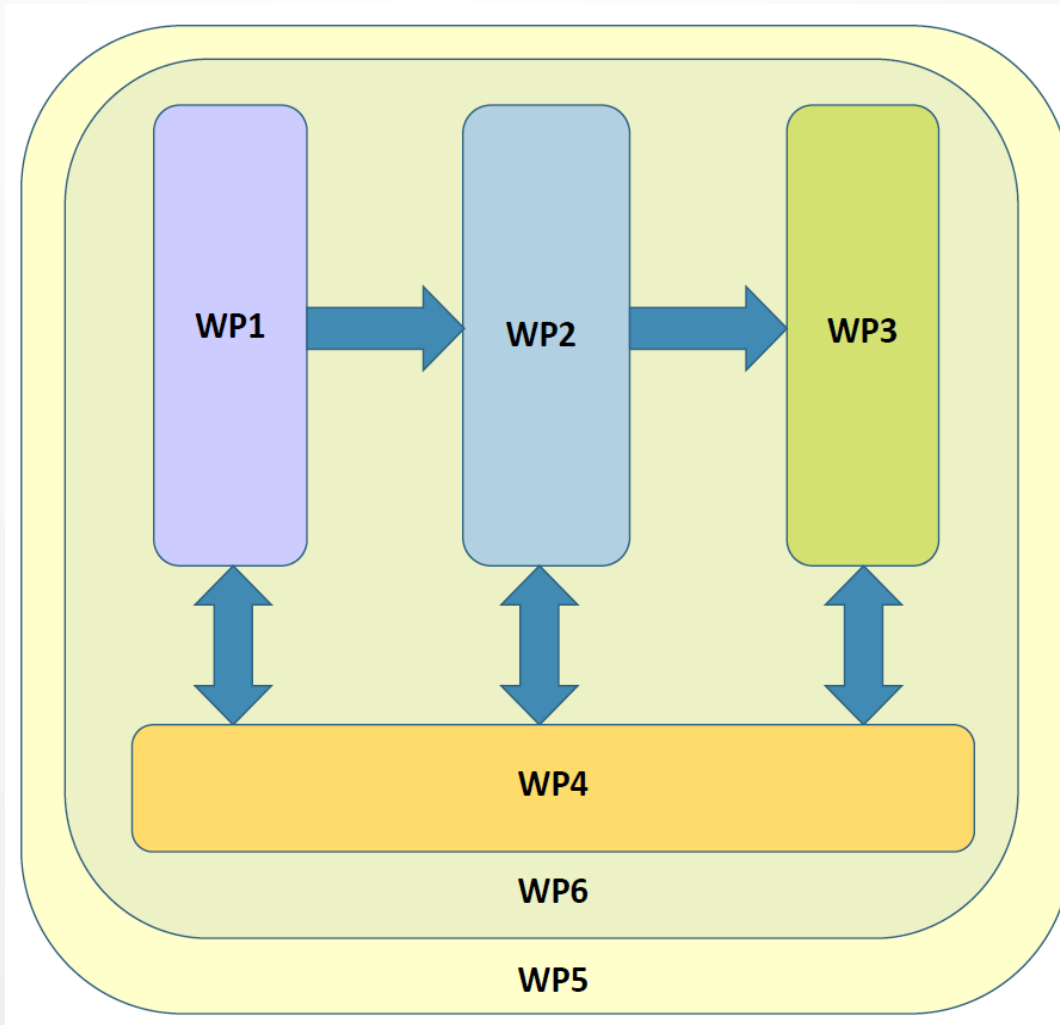


Work Packages

- **WP1:** Conceptualizing behavioural patterns of energy consumption and barriers (SWIDE – Italy)
- **WP2:** Modelling energy services in CGE (STRATH-CEP – UK)
- **WP3:** Promoting Energy Efficiency Behaviour in EU (NKUA-KEPA – Greece)
- **WP4:** Dissemination – Exploitation (BSEC-GEN)
- **WP5:** Management (NKUA-KEPA – Greece)
- **WP6:** Ethics – Data and Research Management (SWIDE – Italy)



Links among WPs



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Target groups

European Commission

Official EU Dissemination channels, EASME, Cordis, DG Environment, BUILD UP portal etc. Explained in the text.

Decision/policy makers

Concerns policy makers from all levels, local, national, European, regional and international, see in text.

Households/General public

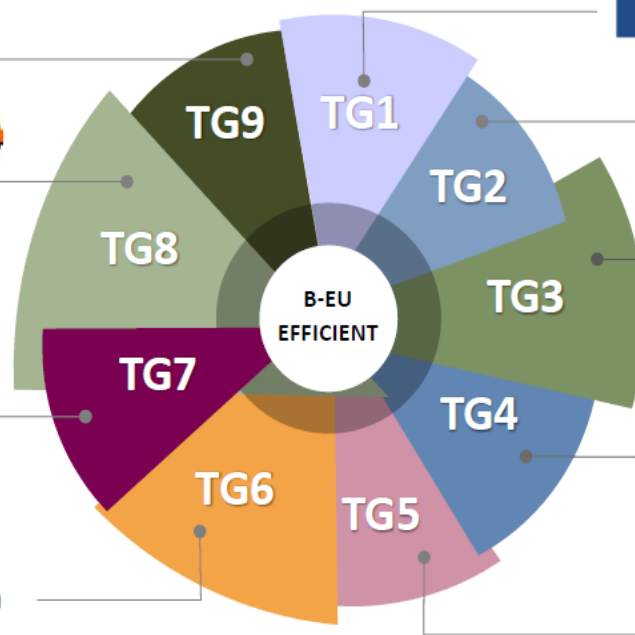
Owners, renters, all types of families, single family and multi-family buildings.

Building sector professionals

Building managers, passive house associations, heat system technicians, etc. See more in text.

Financial institutes

Banks, funds, funding schemes, Associations of banks etc See details in text.



Other projects

Other EU funded projects and initiatives, see in proposal explanations.

Media

Newspapers, blogs, TV channels, social advisors, Consumer Associations, Trade unions etc. More details in proposal.

Research Community

Academics, researchers, scientists, students etc. See details in text.

Energy Industry

Power companies (oil, gas, electricity etc), ESCOs, national energy agencies, energy regulators etc. Explained in text.



Expected impacts

- More accurate and holistic mapping and modelling of the demand side
- Better assessment of
 - energy consumption trends for different categories of economic agents
 - demand-side policy trends at European level



Evaluation outcomes



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Thank you