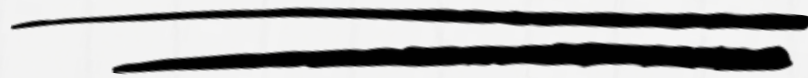


From Chaos to Clarity: Mastering Data for Effective and Inclusive Policies





PART 1: Project Pitches

PART 2: 1-2-4 LIBERATION STRUCTURES





Moderator:

Kristina Eisfeld

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Iska Brunzema



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Miljenka Kuhar



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Maria Font



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Energy Poverty 0

Marion Ligneau



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LOCATEE + CARE

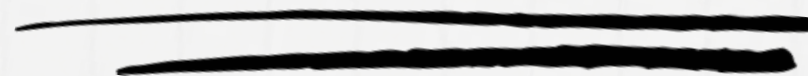
Jakub Sokołowski





1

HouseInc
Iska Brunzema





Affordable, sustainable and inclusive
housing for marginalised communities



HouseInc

Iska Brunzema



This project has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement no. 101132513. The responsibility for the information and the views set out in this document lies entirely with the authors. The European Commission is not responsible for any use that may be made of the information it contains.

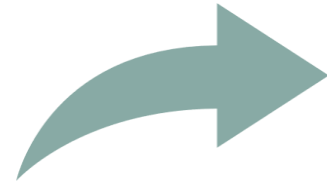


HouseInc

Inclusive, affordable and sustainable Housing for marginalized Communities

Aim of the project

- Analysis of the interlinked dimensions of housing inequalities in the context of marginalised communities
- Understanding the economic, social and ecological drivers and effects of housing inequality



Energy poverty as one manifestation of housing inequality

Role of housing equality for energy poverty

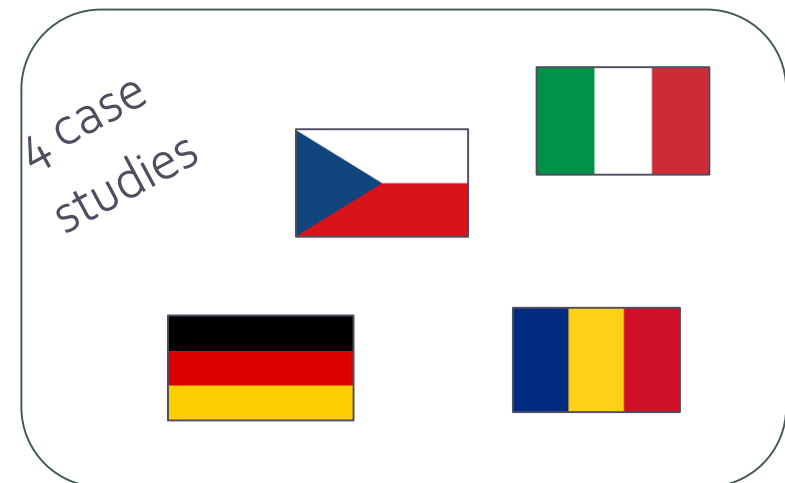
Impact of energy poverty on work mobility, health and leisure outcomes

Use of smart digital technologies (in particular smart meters) to identify energy poverty and understand differences of indices

Which data sources do we want to use and collect?

Secondary smart meter data

Multinational survey in 8 countries



14 partners



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA





Early data collection: multinational survey

Aim of the survey

- General aim: assessing impacts of housing inequalities
- Energy poverty: the role of housing quality on energy poverty, the impact of energy poverty on work mobility, health and leisure outcomes
- Focus: marginalized/ vulnerable groups but also compare to representative sample of the country

Target group

- Who is marginalized/vulnerable? E.g. low-income
- How to reach relevant people? (only online or also postal/by phone?)
- Feasibility for participants (length of the survey vs. contents)

What questions to ask

- asking the “right” questions
- more than existing data (e.g. EU-SILC)
- which indicators can be used/help for the analysis?
- e.g. we include:
 - Income and wealth
 - Housing Quality
 - Vulnerability and vulnerable groups
 - Tenure Type
 - Energy Price Crises
 - Covid-19

Questions we have for you:

- What data do you have access to already?
- What additional data would they need?
- Can they make use of our survey (findings)?



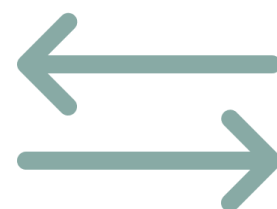
Indicators we use

Expenditure-based indicators

Energy expenditure of 10% of the disposable household income

Actual Expenditure Energy Poverty (AAEP), based on income and energy use (smart meter)

In how far do these indicators overlap?



More subjective indicators

Feeling Energy Poor: EU-SILC

e.g. Ability to keep home warm

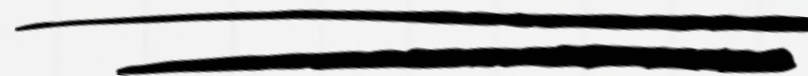
Questions we have for you:

- What indicators do you use and/ or discuss?
- Why do you use these indicators (e.g. data availability)?
- Limitations of indicators? e.g. condition of building

2

CEESEN BENDER

Miljenka Kuhar





CENTRAL EASTERN EUROPEAN
SUSTAINABLE ENERGY NETWORK



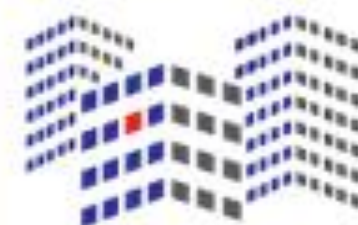
Co-funded by
the European Union

Consortium – 10 partners – 4 associated partners – 5 pilot countries

Who we are:



SPÓŁDZIELNIA MIESZKANIOWA
MARYSIN WAWERSKI



GP STANORAD
DRUŠTVO ZA UPRAVLJANJE
ZGRADAMA



EUROLAND
UPRAVLJANJE ZGRADAMA

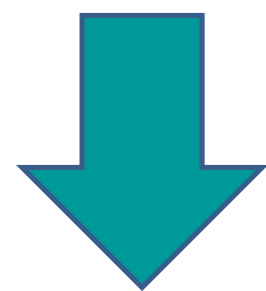


CENTRAL
EASTERN
EUROPEAN
SUSTAINABLE
ENERGY
NETWORK

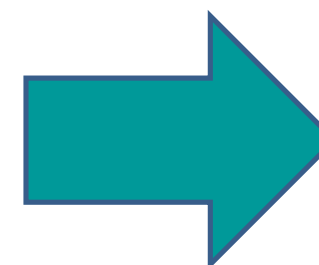


Target Groups

Vulnerable homeowners and **tenants** living in Soviet-era multi-apartment buildings in 5 CEE countries: Croatia, Slovenia, Estonia, Poland, and Romania.



help them by creating a support system and tools for
landlords, homeowner associations, building managers, municipalities / regional governments, and other large owners of multi-apartment buildings



3 key stakeholder groups:

- **citizens** (homeowners, vulnerable and energy poor homeowners, homeowners association, landlords),
- **local authorities** (municipalities, cities),
- **business sector** (technology providers – equipment, and renovation companies).

Specific objectives

1) analyse the ownership structure and physical characteristics of buildings in the 5 pilot sites in targeted regions to comprehensively understand the underlying obstacles to homeowner associations, landlords, and property managers from pursuing energy renovations.

2) identify legislation, financial and technical administrative obstacles for the renovation in pilot countries. Create tailor-made solutions for homeowners, building managers, landlords, municipalities and other involved in the renovation process.

3) develop:

- Data gathering on energy poverty in the pilot sites,
- Digital tool identifying buildings with high levels of energy poor households in greatest need of renovation;
- Model of potential savings in buildings undergoing renovation,
- Tool for calculating the return on investment for energy renovations.

Specific objectives

4) develop 5 Pilot area roadmaps that prioritize building renovation based on their potential for maximizing emissions reduction via energy savings as well as an increase of quality of life and wellbeing for vulnerable homeowners.

5) 5 CEE create at least 30 building-level roadmaps that specify the technical details for renovations.

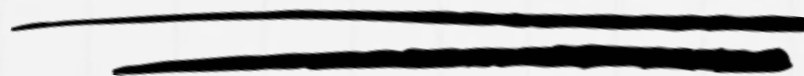
6) create a support system in our targeted regions to speed up the renovation process, by

- training at least 3500 homeowners, landlords and building managers on legal, financial, technical and other aspects of energy renovations.
- advocating for changes of regulatory requirements and policies to lower the costs and time needed for the preparatory phase of projects.
- train at least 30 energy professionals on energy poverty and related topics



3

RENOVERTY
Raquel Rodríguez





*Home Renovation Roadmaps to Address Energy Poverty
in Vulnerable Rural Districts*

RENOVERTY

Raquel Rodríguez

ECOSERVEIS



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RENOVERTY

(LIFE PROGRAMME 2022-2025)



Aim of the project : Design a scalable series of **renovation roadmaps** with operating models **for rural areas** across Europe.

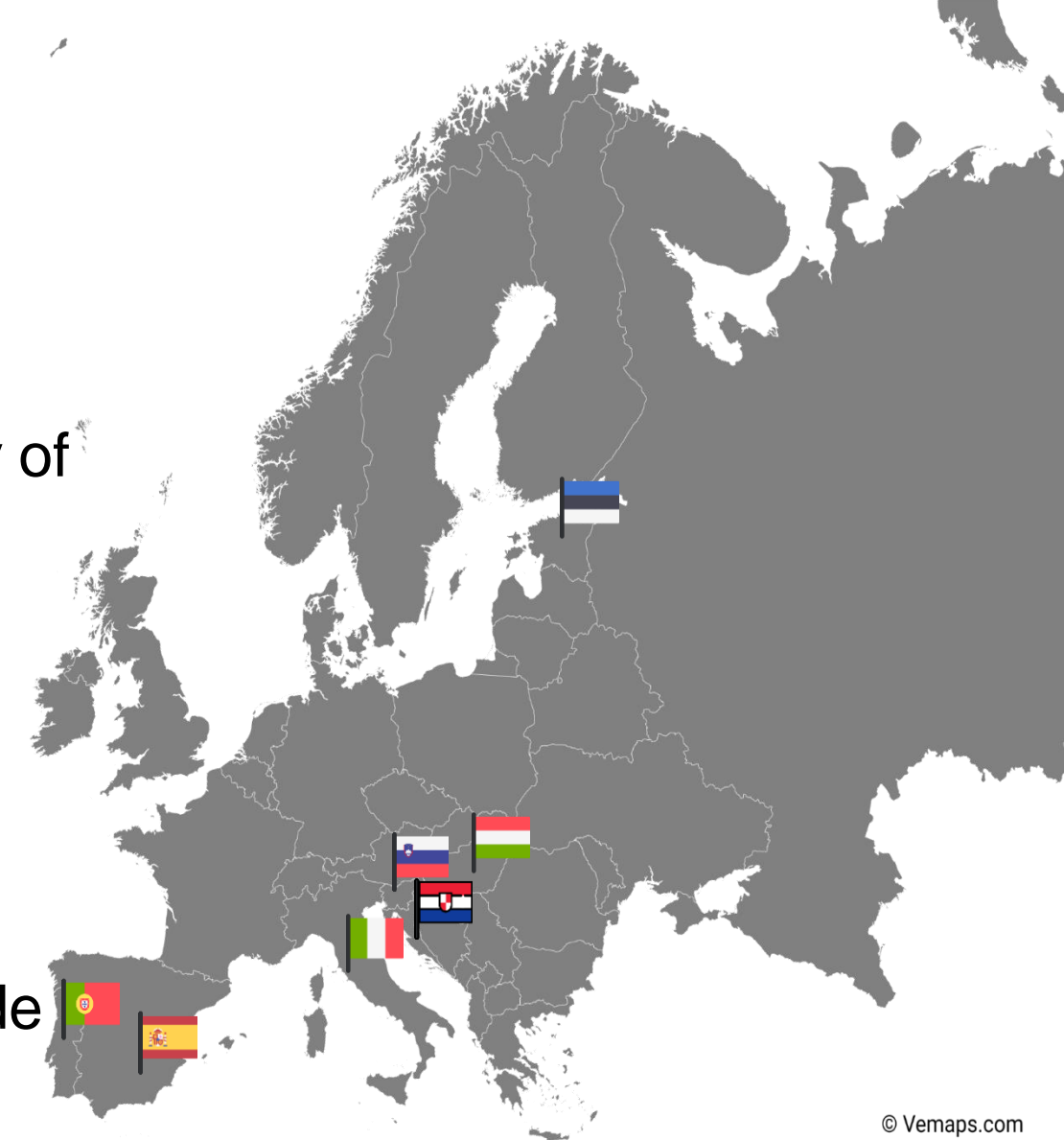
Objectives:

1) Promote the renovation of rural vulnerable districts to increase the energy efficiency of **17 vulnerable rural areas across 7 regions:**

- Provide household **Renovation Energy Efficiency Roadmaps (REERs)** according to the characteristics of the household and regions.
- **Partnering and supporting actors** in the building and implementation of REERs.
- Deliver **a scalable operating model**, to support the replicability of the roadmaps and guide other public actors to renovate rural vulnerable districts after the project ends.

2) Empower all public and non-public actors in rural areas in becoming involved in the process of renovating vulnerable districts/buildings by:

- Identify barriers and co-designing activities with the **collaboration of private and public sectors**.
- Develop several **tools and resources** to enable knowledge on applying a successful integration to build the roadmap.

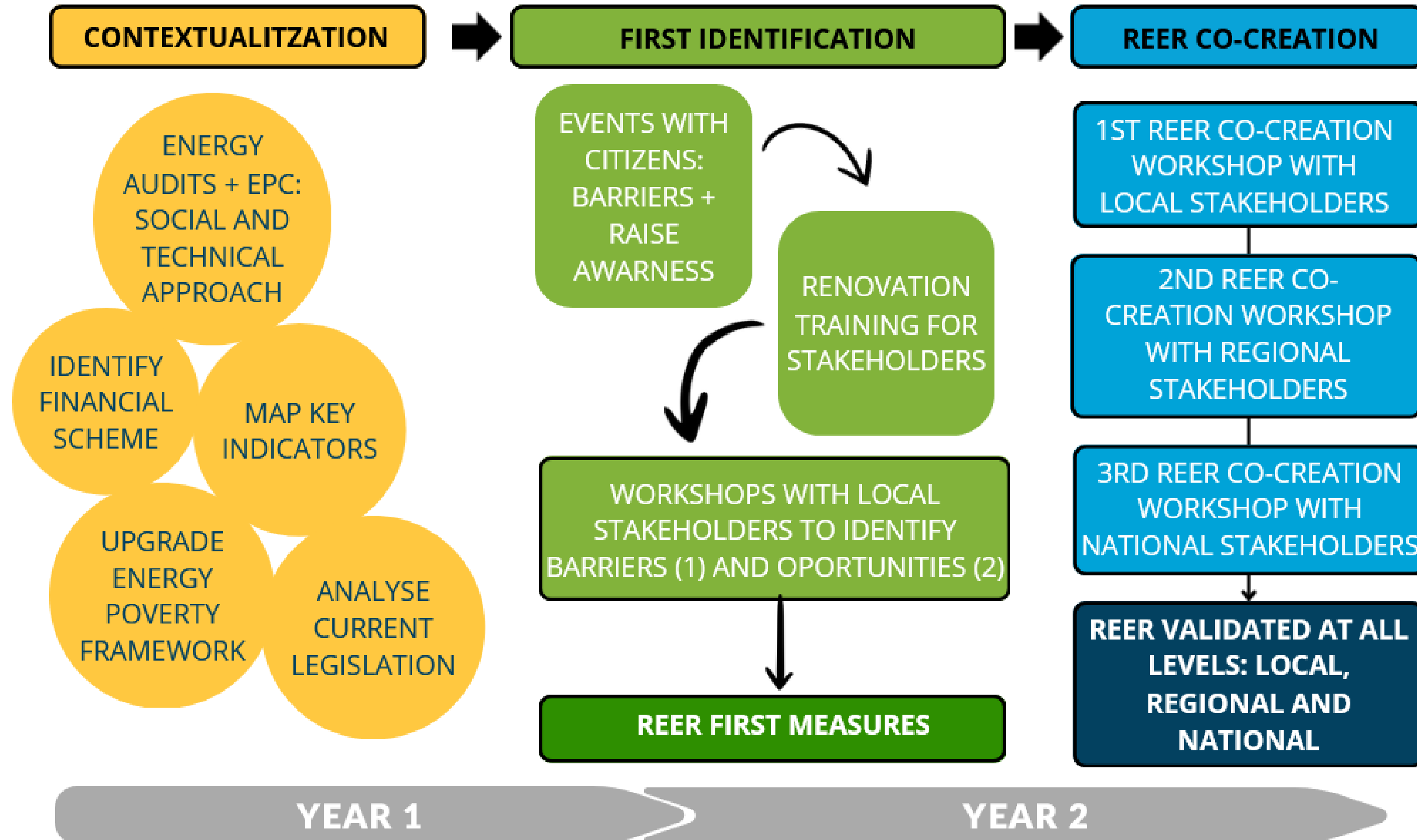


© Vemaps.com

Renovation roadmaps (REER)



How to design the REER? From the theory to a practical implementation:



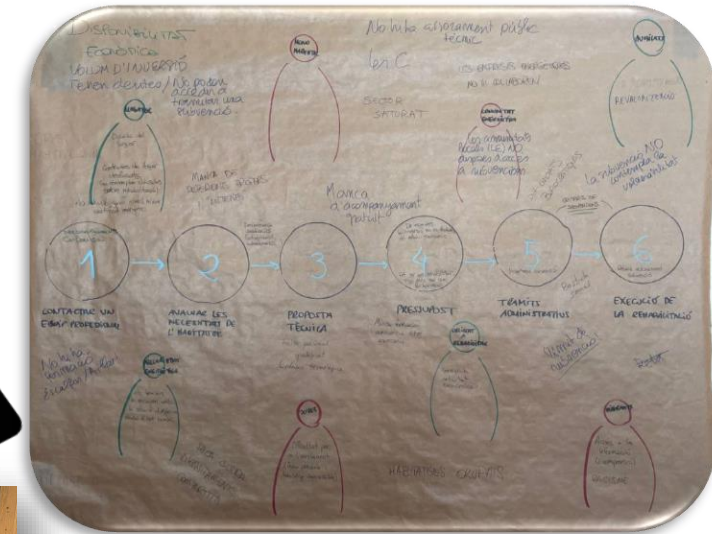
REER Co-creation process

Lessons learned during the REER co-creation process:

- Put **citizenship at the center** as a basis for identifying barriers.
- Focus on the **rural and vulnerable approach**.
- Build the **roadmap from the bottom up**, with the people/stakeholders who will help to implement it.
- The **renovation challenge is not technological**; the barriers are before being able to renovate.

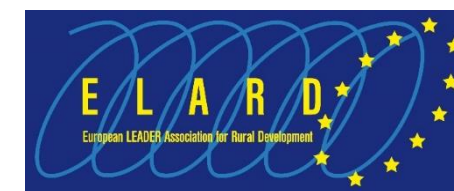
What's next? Next's steps to ensure implementation!

- Selection of **4 measures to be implemented in YEAR 3**.
- Get funding to **renovate 35 vulnerable households**.
- **Link the REER to existing** regional development **documents and** to the Local Development **Strategies** of the Local Action Groups (LAGs).





Home Renovation Roadmaps to Address Energy Poverty in Vulnerable Rural Districts

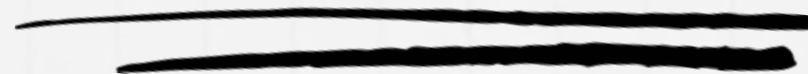


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4

REVERTER

Maria Font



REVERTER

Deep REnovation roadmaps to decrease
households VulnERability To Energy poveRty

LIFE 2021-ENERPOV



Riga,
Latvia



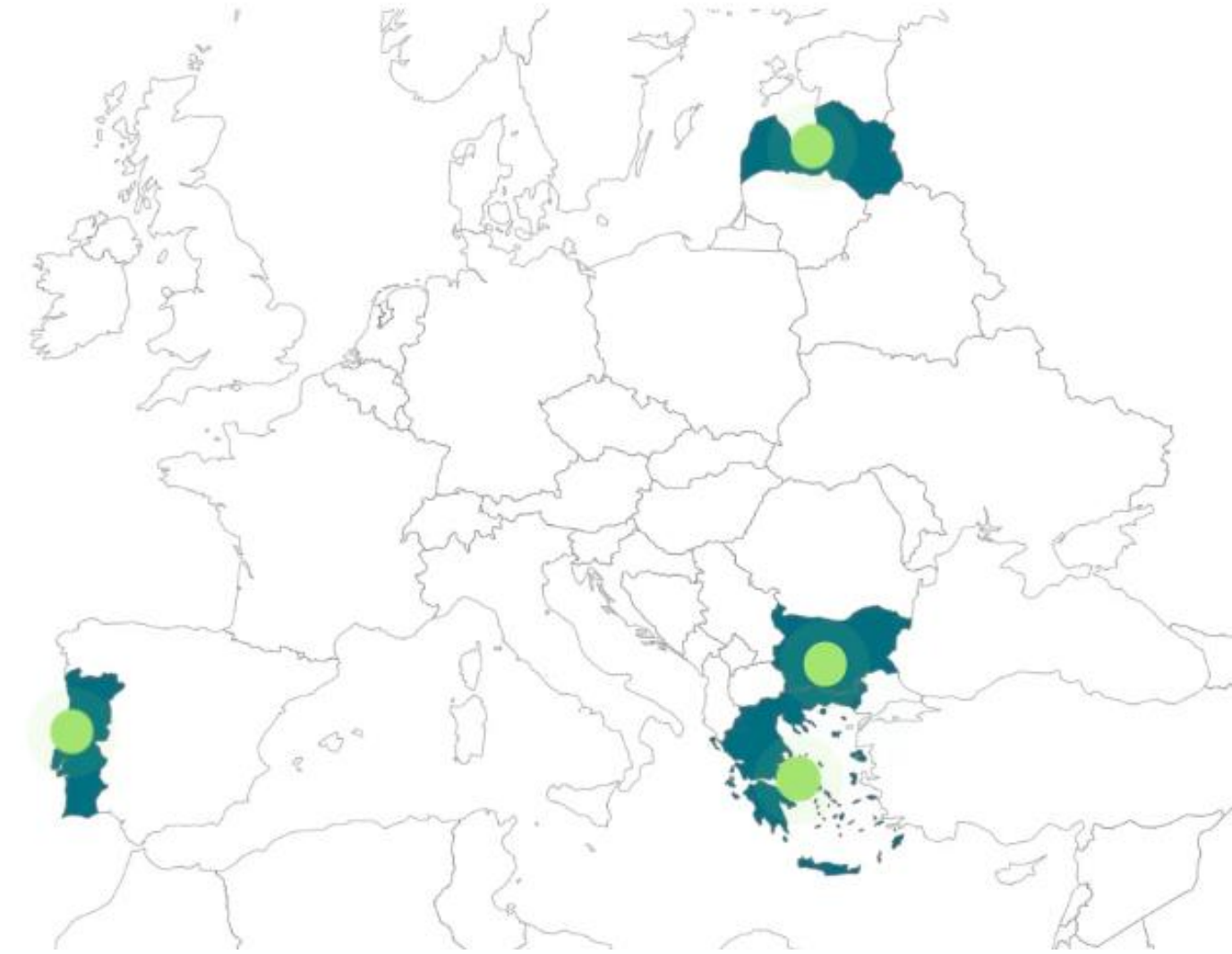
Coimbra,
Portugal



Brezovo,
Bulgaria



Athens Urban area,
Greece



1

Pillar 1
Identification of
energy vulnerable
households

Pillar 2
Analysis of
building stock

2

Pillar 3
Assessment of deep
renovation measures

3

Pillar 4
Establishment of
"one-stop shops"

4

Pillar 5
Capacity building using
energy ambassadors,
awareness and training
campaigns

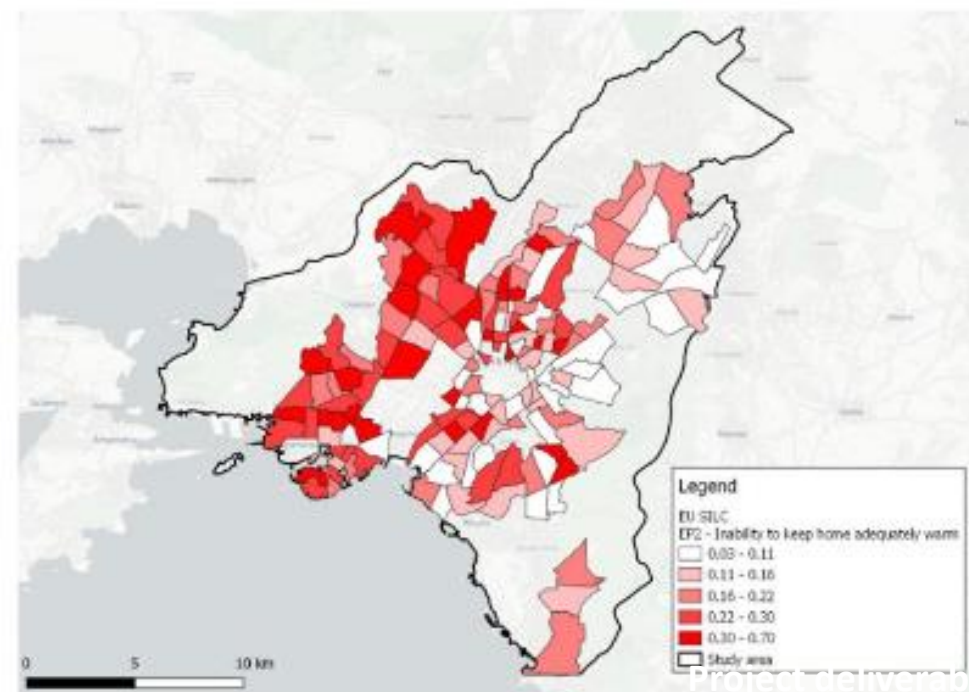
5



REVERTER

Analysis to provide solutions

- PESTEL Analysis
- Social Surveys
- New EP Indicators
- Hotspots
- 9 ROADMAPS



Identification of energy poverty hotspots and capacity building needs - Fig 46. EP incidence at zip code level (EP2 Inability to keep home warm).



Trainings and community engagement

- OSS
 - 4 Digital OSS
 - 4 Physical OSS
- Training
 - OSS Personnel
 - Ambassadors
 - Citizens
- Social Marketing



Bulgaria informative event for citizens focused on reducing energy poverty through building renovations.

Dissemination and exploitation of project results

- REVERTER HUB
 - www.reverterhub.eu
 - www.renovar.coimbra.pt
 - www.reverter-brezovo.bg
 - www.energeiakistegi.gr
 - www.renove.lv



Riga's OSS (REA)

November 2022
Project KICK OFF

December 2023
HH Visits & Roadmaps developed

April 2024
4 OSS launched

February 2024
Ambassador trainings

October 2025
End Project

+5 YEARS

REVERTER HUB
& Digital OSS



HOUSEHOLD VISITS IN COIMBRA



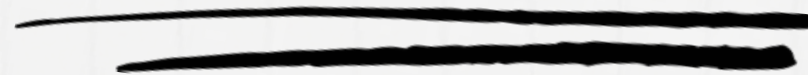
Co-funded by the
European Union



5

Energy Poverty 0

Marion Ligneau





> LIFE Energy Poverty 0

by energie sprong
fr

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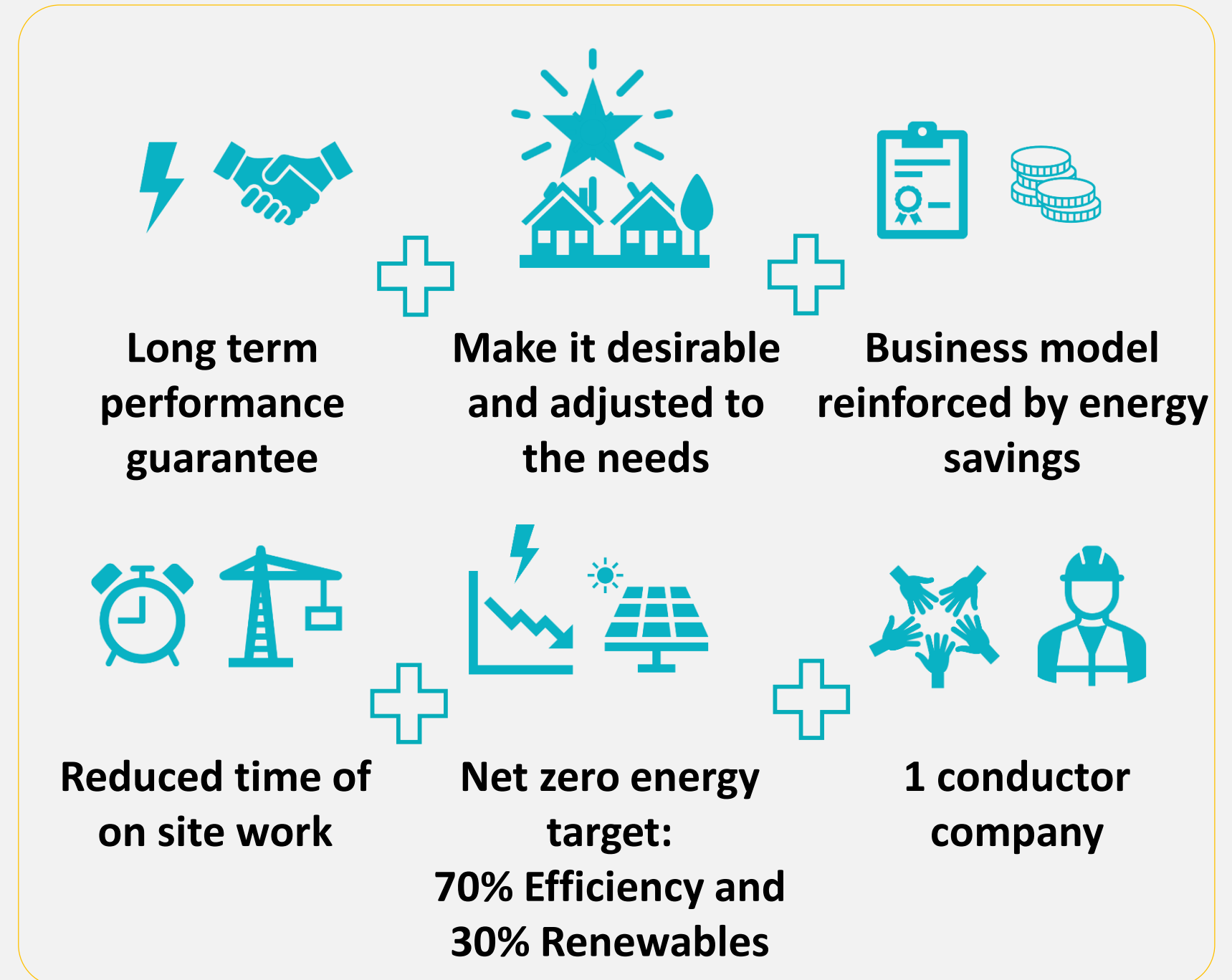


> **EnergieSprong: an open source cooperation movement to scale up high performance industrialised retrofits**

Deployed in 5 countries: Netherlands, Germany, France, UK, Italy with more than 10 000 homes delivered, thanks to the work of general interest facilitation teams 100% funded by public investment, to lower costs and industrialise high performance retrofits.



Thanks to the initiative and implication of pioneer social housing associations.



> EnergieSprong E=0 retrofits have strongly developed for social housing in Europe



UK - Hundreds of homes retrofitted



NL - Thousands of homes retrofitted



GE - Thousands of homes retrofitted



FR - Thousands of homes retrofitted



IT - Tens of homes retrofitted

> **EnergieSprong is a solution to tackle energy poverty of private home owners - A 3 step support to local authorities**

To make high performance industrialised retrofits available to the private home owners sector, we need to focus on 3 work streams.



Technical pre-feasibility

Validate the technical pre-feasibility of high performance industrialised retrofits and aggregate similar buildings



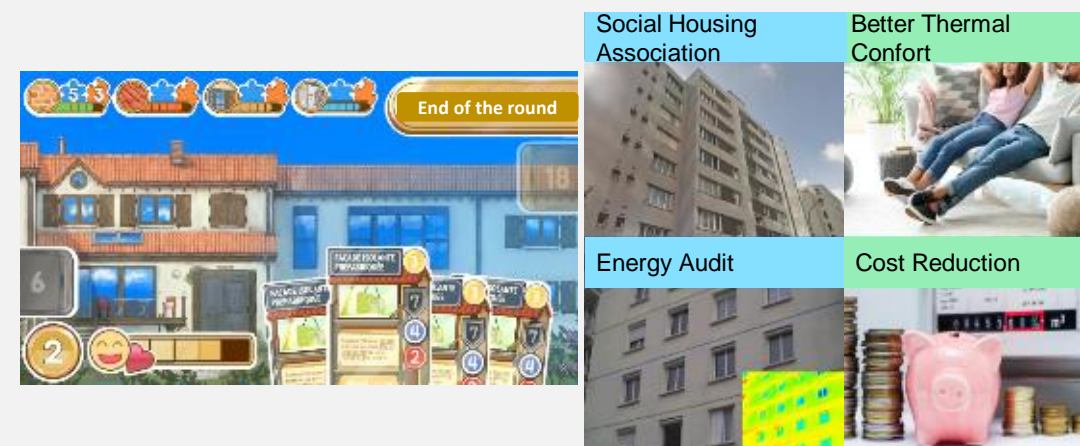
Engage inhabitants

Co-develop activities to engage households into collective buying of high performance retrofits (energy retrofit fresco, video game...)



Organise collective buying schemes

Co-develop legal and financial collective buying schemes to scale up high performance retrofits at a neighbourhood level



1 Collective buying schemes between private owners of individual houses – linked » buying
3 Collective buying schemes for co-owned buildings (possibly including social housing)

2 Collective buying schemes between private owners of individual houses – « free » buying

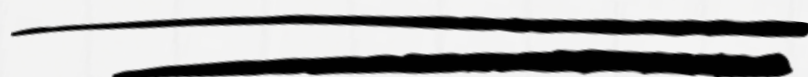
4 Collective buying schemes for multiple buildings fully owned by private owners or social housing associations



6

LOCATEE + CARE

Jakub Sokołowski



Prioritising energy efficiency interventions at a local level based on administrative data LOCATEE and CARE projects

JAKUB SOKOŁOWSKI

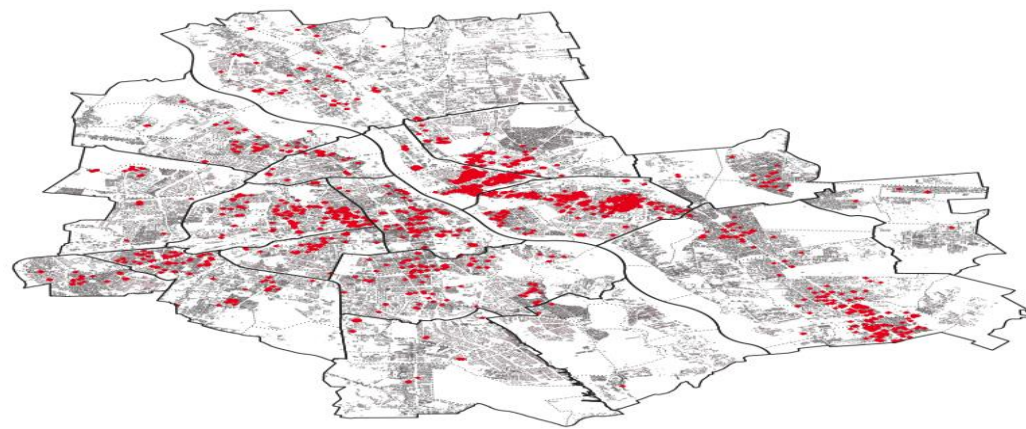
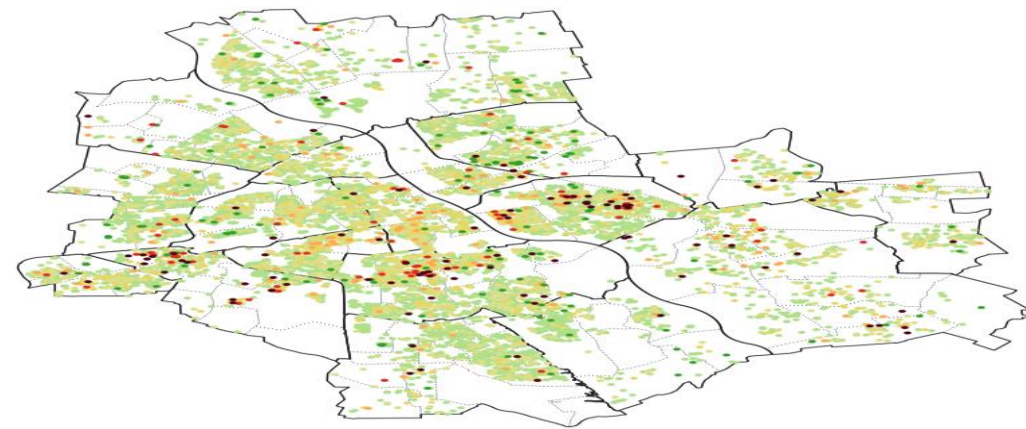
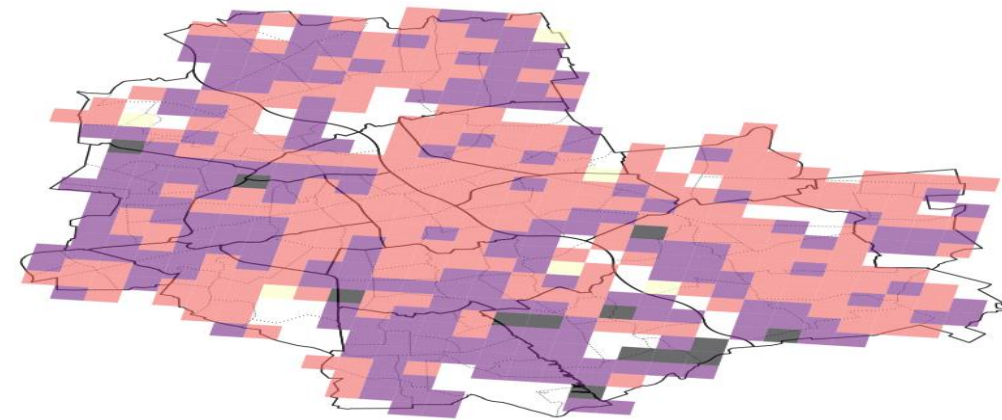
Jan Frankowski

Aleksandra Prusak

Joanna Mazurkiewicz

EPAH, Barcelona 15-16.10.24

High-quality data is usually unavailable at the municipality level. Difficulties in obtaining data enforce a combination of multiple indicators



energy expenditures

→ heating source in the building

income

→ 1-2Q of income distribution on 1x1 km grid

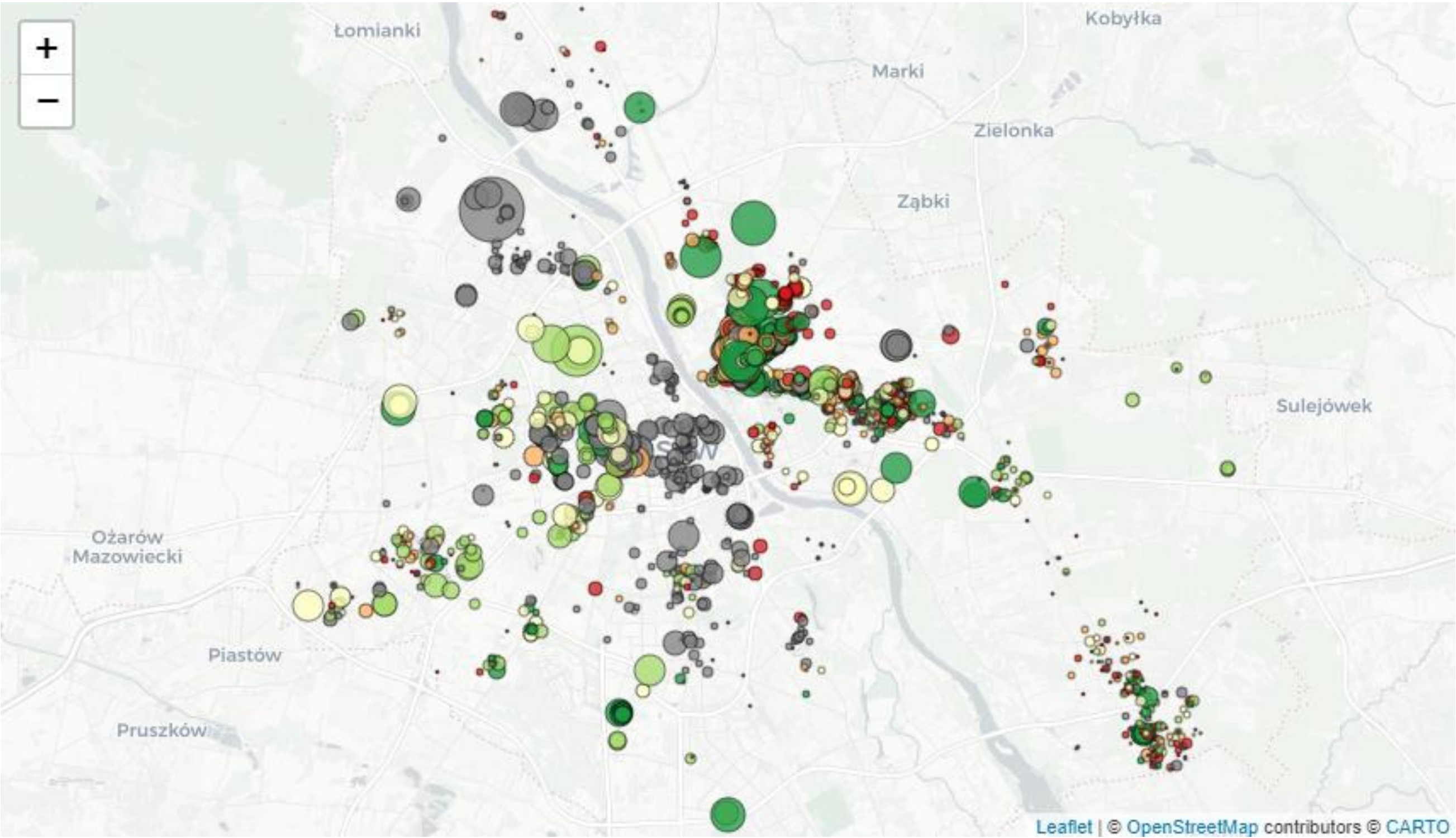
energy efficiency

→ poor technical condition of the building

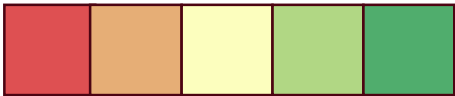
buildings and households

→ personal ID # and number of apartments

The LOCATEE project combines indicators to identify the energy-poor households and energy-inefficient buildings to prioritise support



Multidimensional Intervention index

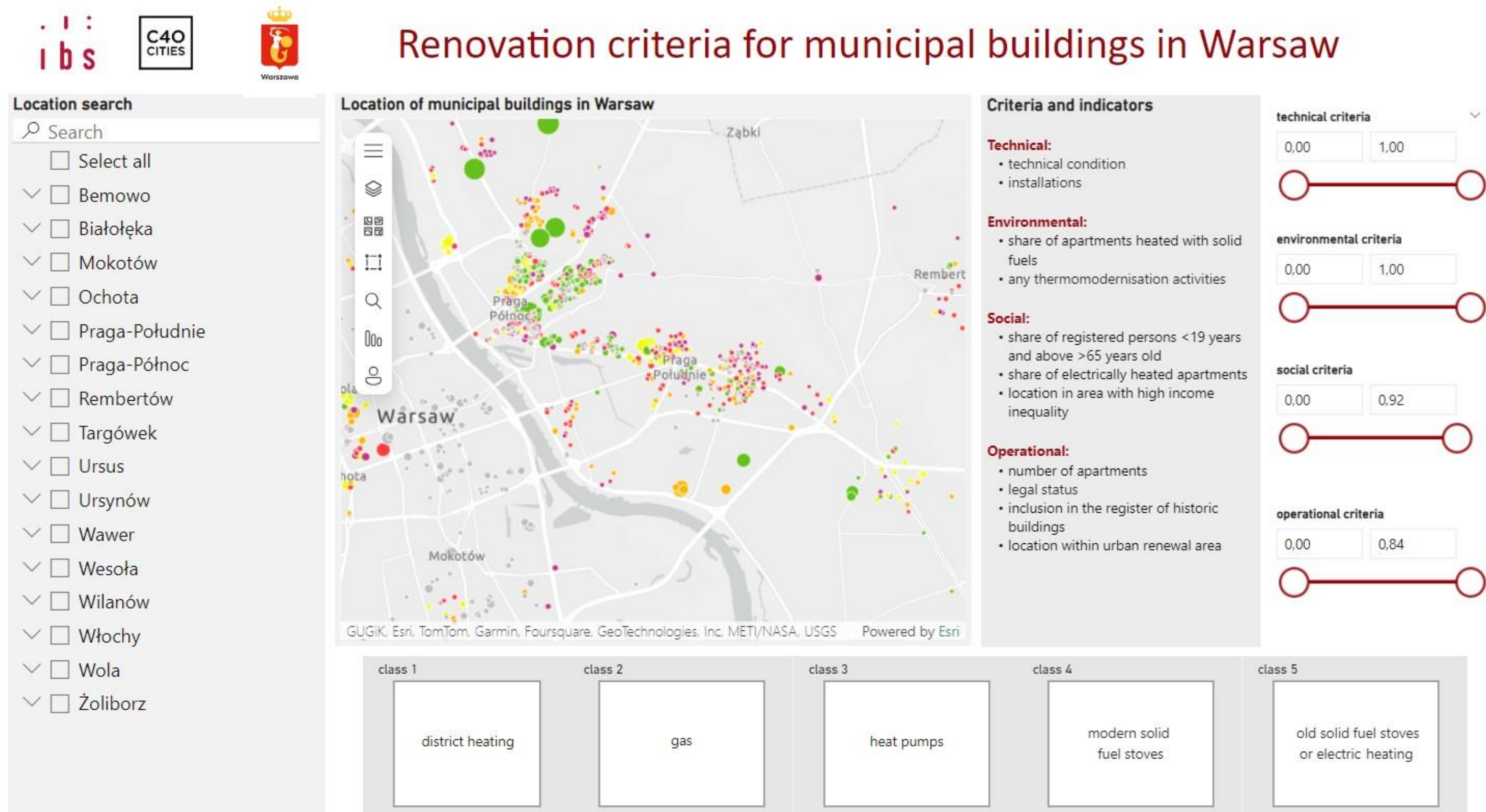


Highest priority

Lowest priority

Unclassified buildings due to data gaps

The CARE dashboard enables the simulation of energy renovation scenarios

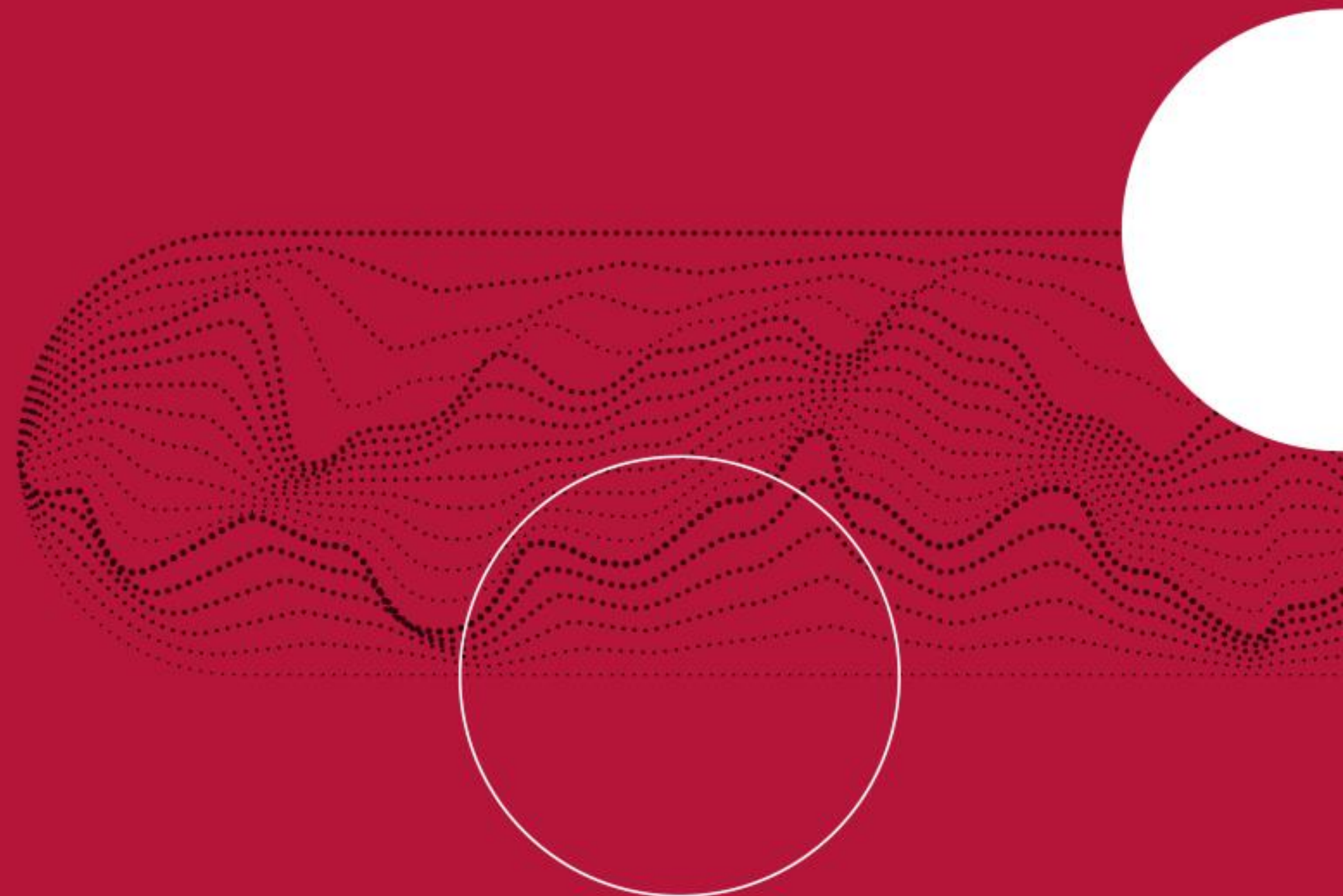


Jakub Sokołowski

jakub.sokolowski@ibs.org.pl

Twitter: [@sokolowski_jj](https://twitter.com/sokolowski_jj)

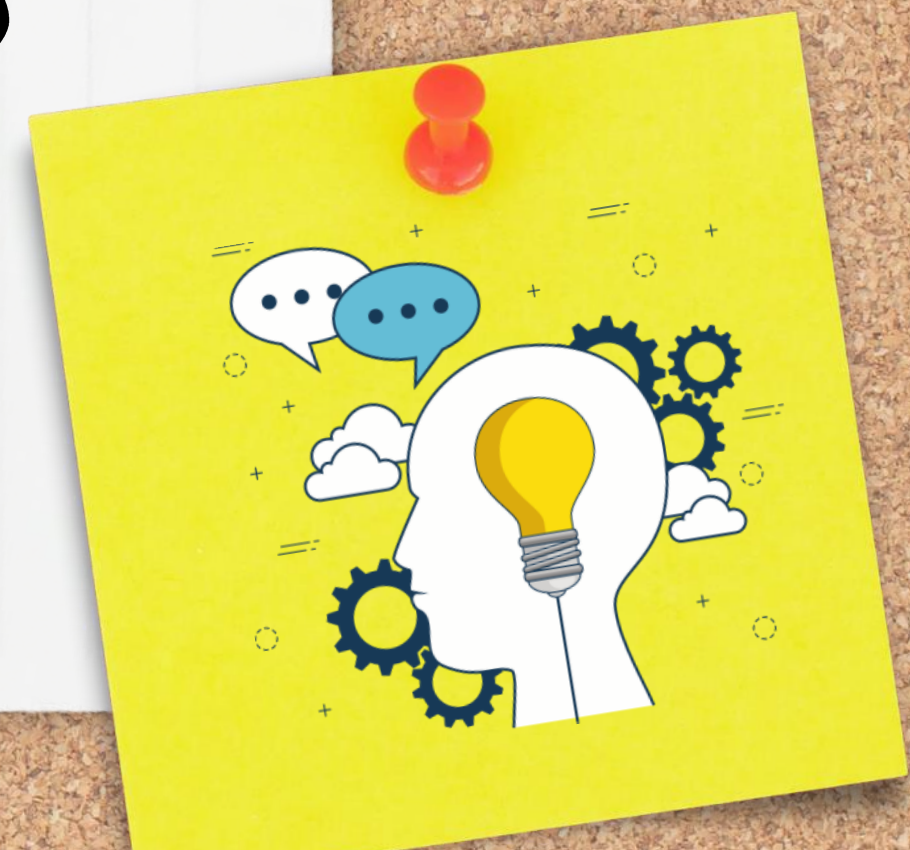
Bluesky: [@jsokolowski.bsky.social](https://bsky.social/jsokolowski.bsky.social)



PART 2

1-2-4

LIBERATION STRUCTURES



Contents

1

INTRODUCTION

2

1ST ROUND

3

2DN ROUND

4

3RD ROUND

5

SHARE WITH ALL

6

GET IN TOUCH WITH US

Housekeeping



Only one person speaks at a time.

Listen actively without interrupting others.

Everyone is expected to contribute their thoughts and ideas.

Engage with others' ideas constructively


No Judgment zone: There are no bad ideas

Use phrases like "Yes, and..."

Combine ideas in the last phase, for a more innovative outcome



Goals



First goal

Fostering a deeper understanding of the diverse realities faced by vulnerable and hard-to-reach consumers across the EU.



Second goal

Leverage these insights to create solutions that are adaptable and inclusive, ensuring they work across different social, economic, and cultural contexts.



Working station 1
**Data collection and
indicators**

Project:

HouseInc

Moderators:

Iska Brunzema
Hanna Janssen

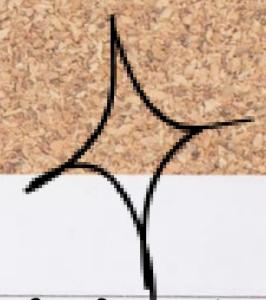
Working station 2
**Impact monitoring,
Sustainability**

Project:

CEESEN BENDER

Moderator:

Miljenka Kuhar



Working station 3
**Planning renovation
actions**

Project:

RENOVERTY

Moderator:

Raquel Rodríguez
Martínez




Working station 4
One Stop Shops

Project:

REVERTER

Moderator:
Maria Font

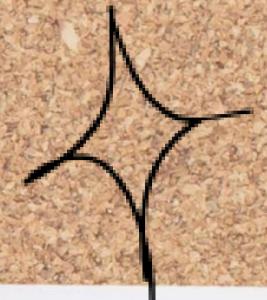


Working station 5
**Collective buying
schemes**

Project:

Energy Poverty 0

Moderator:
Marion Ligneau



Working station 6
**Prioritising energy
efficiency
interventions at a
local level**

Project:

LOCATEE + CARE

Moderator:
Jakub Sokolowski



Brainstorm Session

How might
we....



EXAMPLE

How might we engage vulnerable consumer so that they access the OSS?

How might we fund deep renovation for social housing so that the energy efficiency is increased?



How might we select best actions to address hard to reach consumers so that we increase the impact?

EMPOWER

DESIGN

ENCOURAGE

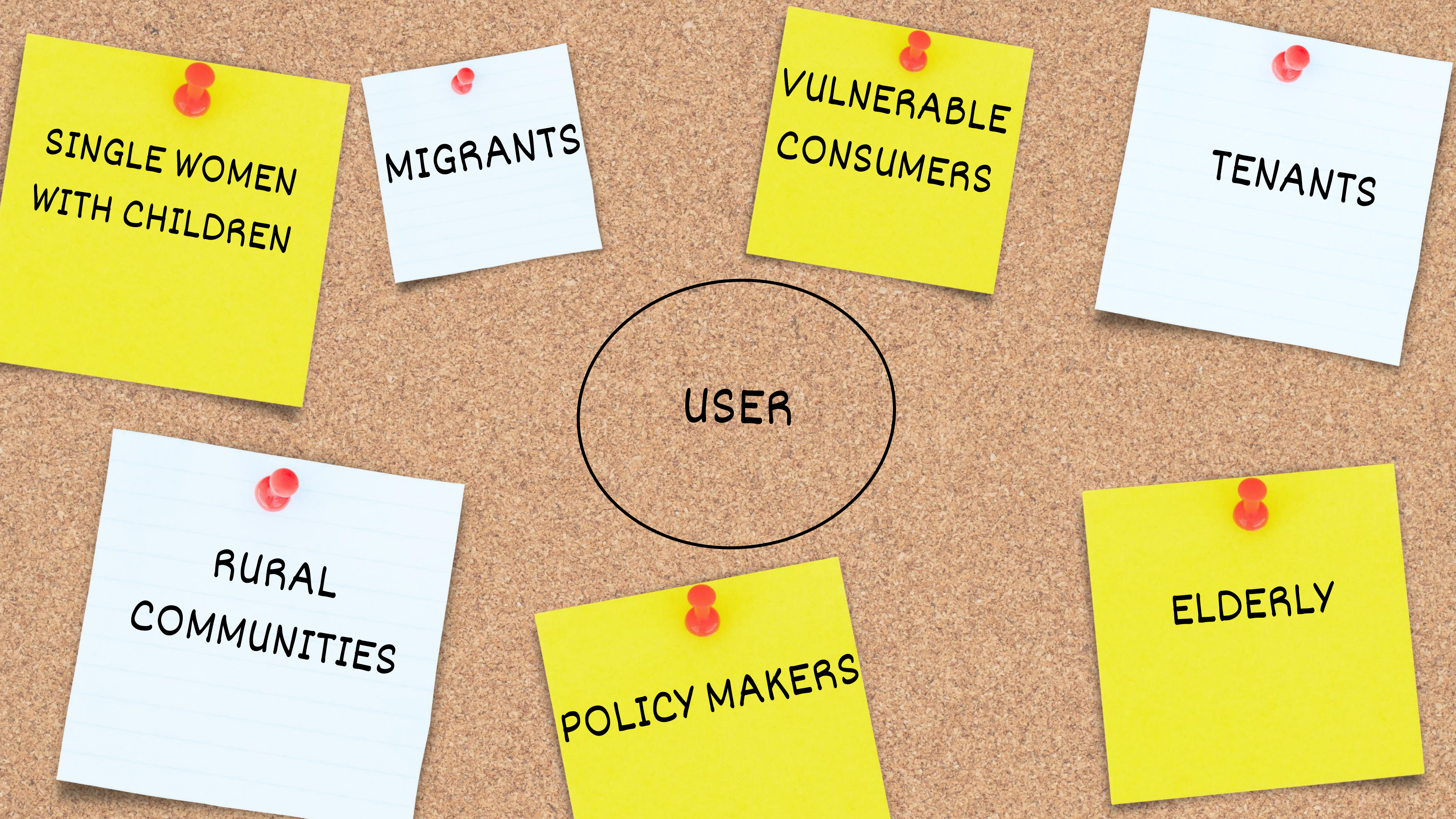
FACILITATE

ACTION VERBS

CO-CREATE

COORDINATE

DEVELOP



SINGLE WOMEN
WITH CHILDREN

MIGRANTS

VULNERABLE
CONSUMERS

TENANTS

USER

RURAL
COMMUNITIES

POLICY MAKERS

ELDERLY

REACH A HIGH
AMOUNT OF
BENEFICIARIES

TOOLS ARE
DEVELOPED

KNOWLEDGE IS
SPREAD
EFFECTIVELY

SO THAT



OUTCOME

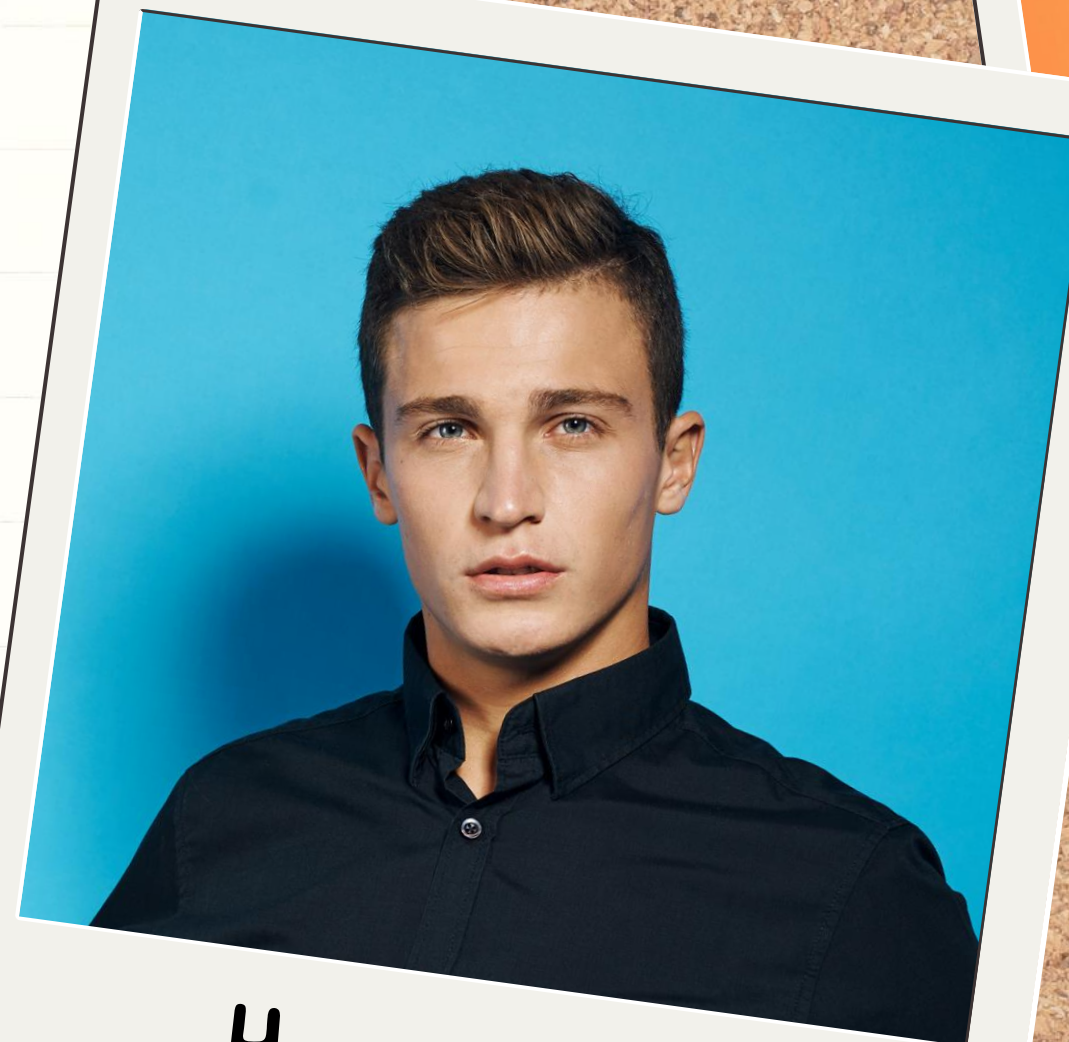
EFFECTIVE POLICIES
ARE IMPLEMENTED

SOCIAL EQUITY IS
ACHIEVED

The group

Introduce yourselves in your working station with a metaphor!
You have 5 minutes!

“Hey, I’m Krissy, and if I were an energy source, I’d be solar power—always looking for bright ideas and sustainable solutions!”



Howard Ong



Olivia Wilson

05:00

1-2-4 liberation structures



Rules

- Grab some posit papers and brainstorm on your own
- Begin your sentence with "How might we."
- State the action you want to take.
- Specify the user or group who will benefit from the action.
- Describe the desired result of the action.





How might we secure sustainable funding for deep renovations in social housing **so that** energy efficiency is significantly boosted?

How might we identify the most effective strategies for reaching hard-to-reach consumers **so that** we can maximize our impact?

EXAMPLE

How might we engage vulnerable consumer so that they access the OSS?

How might we fund deep renovation for social housing so that the energy efficiency is increased?



How might we select best actions to address hard to reach consumers so that we increase the impact?

1-2-4 liberation structures

01:59

Rules

- Share it with your neighbor
- Read your sentences out loud and decide together on a common sentence/ topic for further discussions.

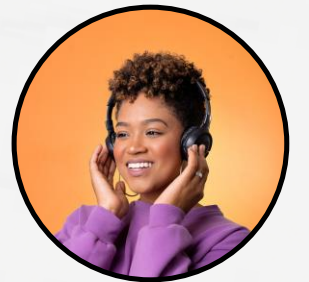
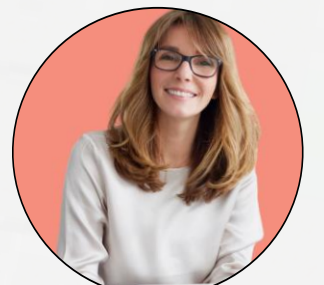
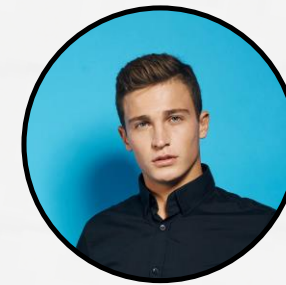


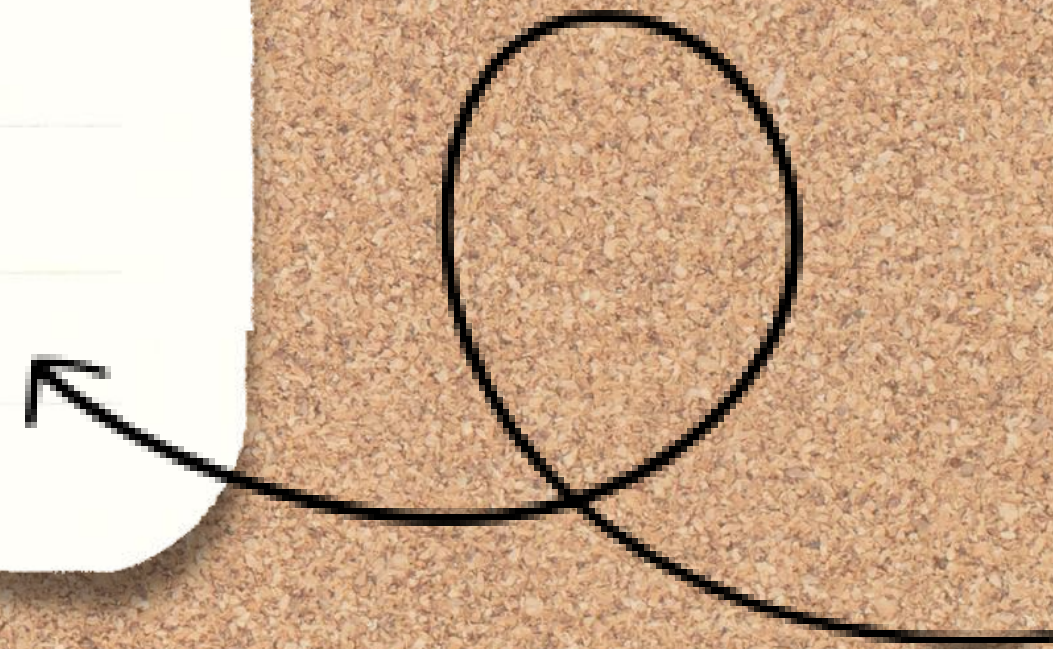
1-2-4 liberation structures

Rules

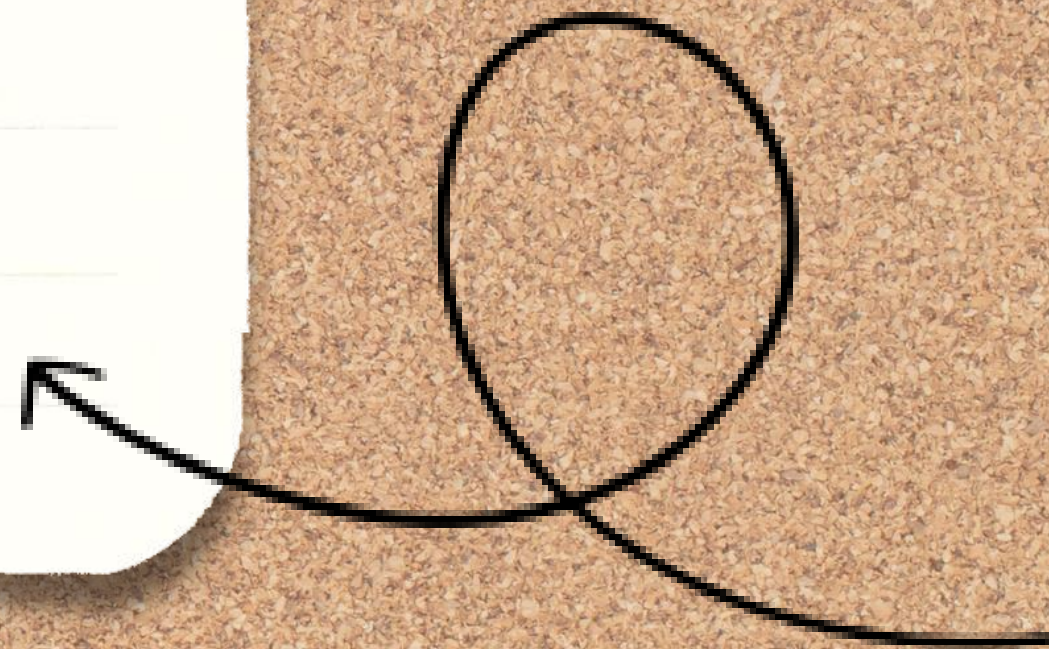
- Look for similarities or overlapping themes in your questions
- Choose the one question that resonates most with the group or that combines multiple ideas
- Find creative new solutions to the question
- No idea is too wild or unconventional
- Feel free to break norms or challenge current approaches

05:00





We Did It!



Thank you for
participating!

