Engaging citizens for a future with clean air and lower carbon emission-ClairCity

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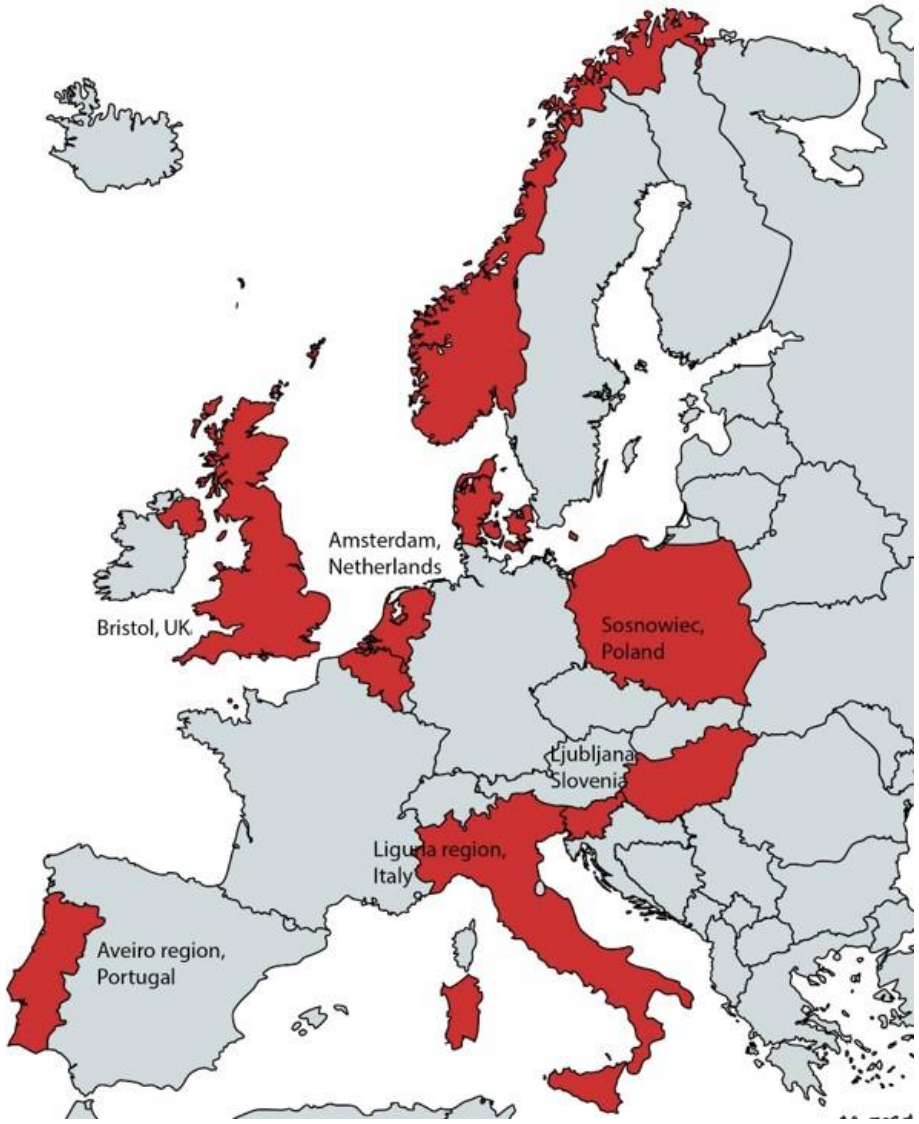


1. Trinomics B.V. (Project Coordinator - Netherlands)
2. University of the West of England, Bristol (Technical Lead - UK)
3. PBL Netherlands Environmental Assessment Agency (NL)
4. Statistics Netherlands CBS (Netherlands)
5. Technical University of Denmark (Denmark)
6. Norwegian Institute for Air Research (Norway)
7. REC Regional Environmental Centre (Hungary)
8. TECHNE Consulting (Italy)
9. Transport & Mobility Leuven (Belgium)
10. University of Aveiro (Portugal)
11. Municipality of Amsterdam (Netherlands)
12. Bristol City Council (UK)
13. Intermunicipal Community of Aveiro Region (Portugal)
14. Liguria Region (Italy)
15. Municipality of Ljubljana (Slovenia)
16. Sosnowiec City Council (Poland)

ClairCity – Our future with clean air

ClairCity is aimed at creating a major shift in public understanding towards the causes of poor air quality, inviting citizens to give their opinions on air pollution and carbon emission **reduction to shape the cities of the future** towards 2050.

ClairCity Objectives

ClairCity will integrate and quantify citizens behaviour and activities to enrich city, national and EU level policy-making, resulting in improved air quality, reduced carbon emissions, improved public health outcomes and greater citizen awareness.

1. Putting citizens behaviour and practices at the heart of the debate.
2. Develop a suite of innovative toolkits for enhanced quantification, engagement and impact evaluation.
3. Integrate citizens behaviours in city policies now and in the future.
4. Raise awareness of environmental problems and their solutions.

Flexibility is key.....our six pilot cities / regions

NOT EVERY CITY IS THE SAME...

OUR PARTNER CITIES AND REGIONS REPRESENT VARIETY.

ClairCity Scope – What do we include?

Short Term <2025 ➔ Medium Term <2035 ➔ Long Term <2050

Pollutants

- *'Priority 1 Air Pollutant'* - those within existing legislation and are most relevant re citizens health as result of citizens action (i.e. NO_2, PM_{10}, $PM_{2.5}$).
- *'Priority 2 Air Pollutants'* - those within existing legislation and less prominent as result of citizens action (i.e. Ozone, Sulphur Dioxide, VOCs, Ammonia, Benzene, Carbon Monoxide, Lead, Methane)
- *'Climate Pollutants'* – both CO_2 and CO_2e.
- *'Future & Rare Pollutants'* – future pollutants which may be relevant by 2050 and rare pollutant which are not commonly problematic now and in the future. We do not aim to quantify these but we provide a ClairCity framework and policies which aim, where practical, to be safe by design.

Boundaries

- *'TIER 1 within city/region boundaries':* detailed assessment of emission sources and air quality (fine resolution)
- *'TIER 2: immediate vicinity of the city':* Some of the activities within the city impact the emissions in the immediate surroundings of the city. Transboundary effects also (i.e. emission for surrounding affecting the city air quality).
- *'TIER 3: rest of the world'*: not relevant for an air pollution perspective, only relevant for carbon footprint (displacing/"exporting" carbon emissions from cities to rest of world).

WP4 – Citizen & Stakeholder Engagement

The primary objective of the WP4 is to engage key stakeholders across all of the partner cities from different European regions to give them the platform to generate their vision for a low carbon, clean air and healthy futures towards 2050 by

- utilisation of *DELPHI process* to engage citizens and stakeholder via online survey, and workshops, and give them a platform to describe their personal future visions of their city,

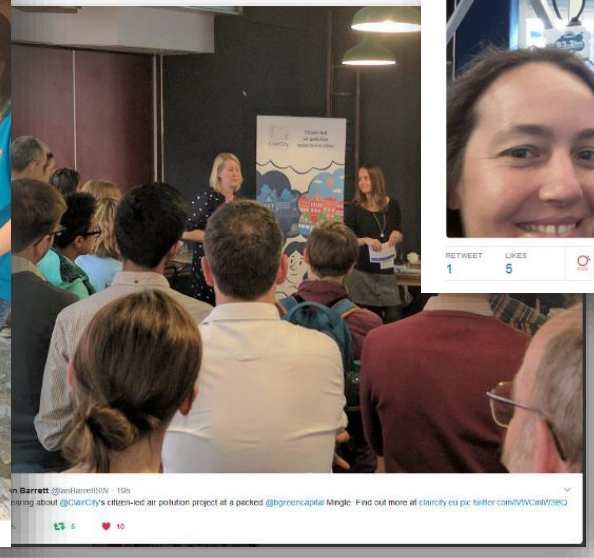
ClairCity WP4 – Citizen & Stakeholder Engagement

- *creating an innovative tools* such as *game and app experience* to actively engage citizens and stakeholders with an enhanced understanding of the air quality and carbon issues, *personal exposure and possible health effects* within cities, create conditions for ownership of the problem and exploration of a diverse range of decisions to reduce impacts and decrease adverse health effects,
- *focusing on public health and vulnerable groups- children, old people-* with active participation of citizens at mutual learning workshops, school competition of children and promotion of non-motorised transportation by short film production of old people/organisation.

The first City, Bristol, implemeted the Delphi and the MLW.

Bristol Delphi/MLW

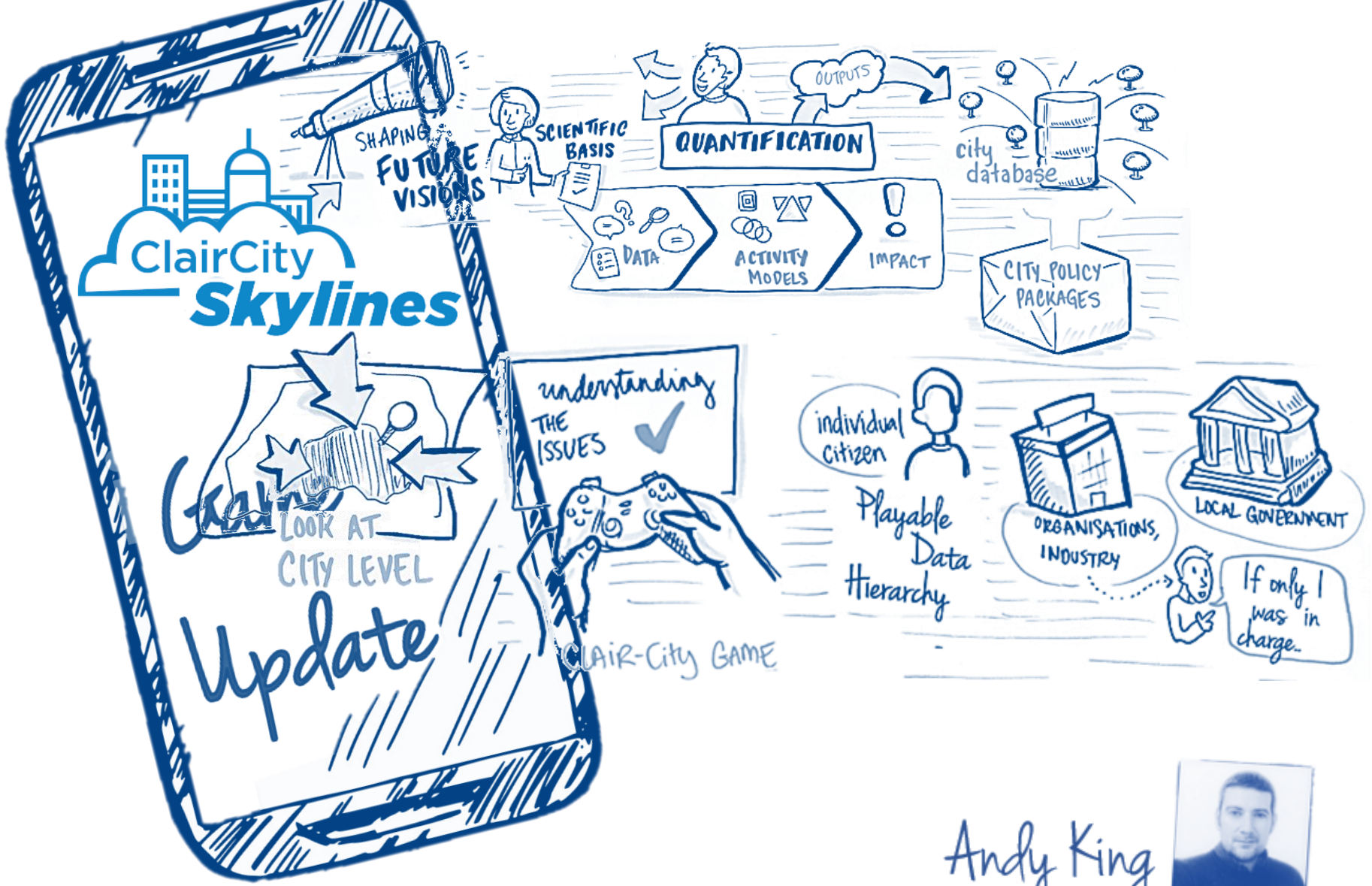
- Launched 4th May
- Promoted on regional TV & local radio
- Online & face-to-face
- Public and community events



Aim of the Citizen Delphi Engagement

- City citizens to consider their own lives, behaviours, activities and practices;
- Explore future options for their city/region up to 2050;
- Create future scenario options to inform the Game (Task 4.2), Quantification WP5, Policy WP6 and Scenarios WP7.

Bristol case



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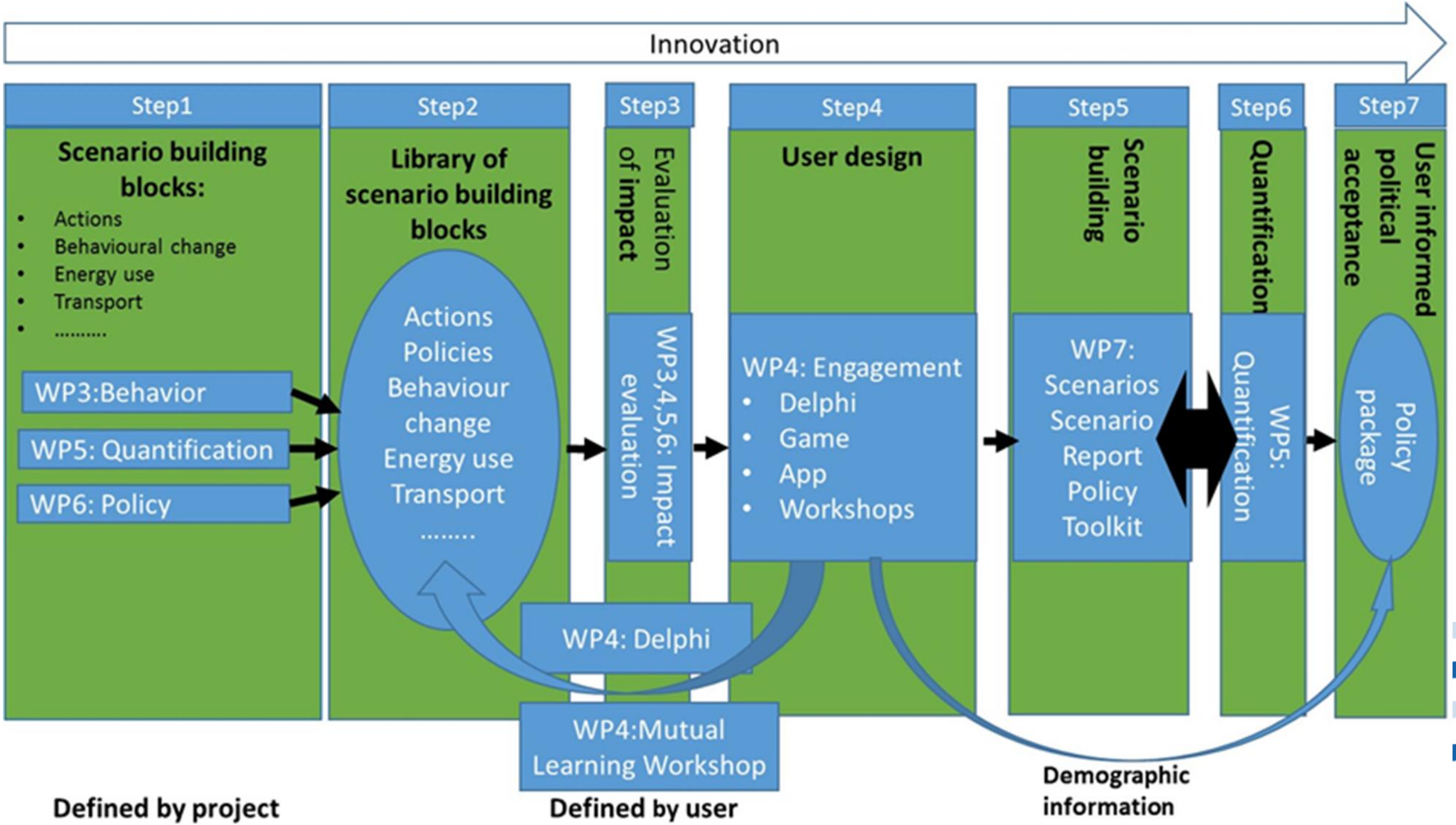
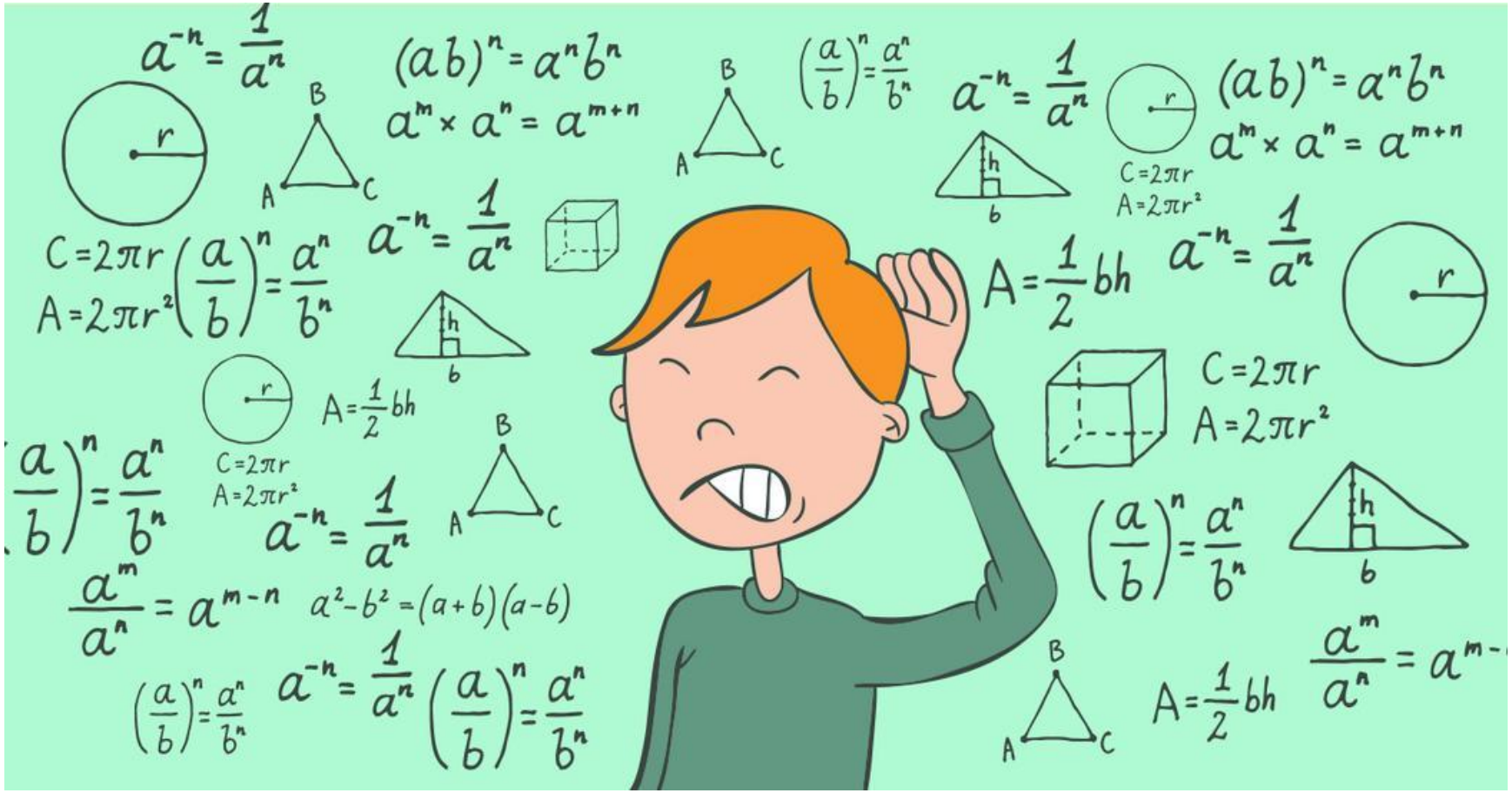
ClairCity – app concept idea

- What we know we can use newer smartphones for
  - Track activity(walking, running, cycling, vehicle)
- What citizens/ companies/organizations might want to know
  - How people move to and from their area
  - Most trafficked and polluted routes and areas
  - How much their students/employees are exposed to air pollution
- HOT-SPOT
  - “A place notable for a high level of activity”


Innovation
Step1
Scenario building blocks:
Actions
Behavioural change
Energy use
Transport
.....
WP3:Behavior
WP5: Quantification
WP6: Policy
Step2
Library of scenario building blocks
Actions
Policies
Behaviour change
Energy use
Transport
.....
Step3
Evaluation of impact
WP3,4,5,6: Impact evaluation
Step4
User design
WP4: Engagement
Delphi
Game
App
Workshops
Step5
Scenario building
WP7: Scenarios
Scenario Report
Policy Toolkit
Step6
Quantification
WP5: Quantification
Step7
User informed political acceptance
Policy package
WP4: Delphi
WP4:Mutual Learning Workshop
Demographic information
Defined by project
Defined by user

WP5: Quantification



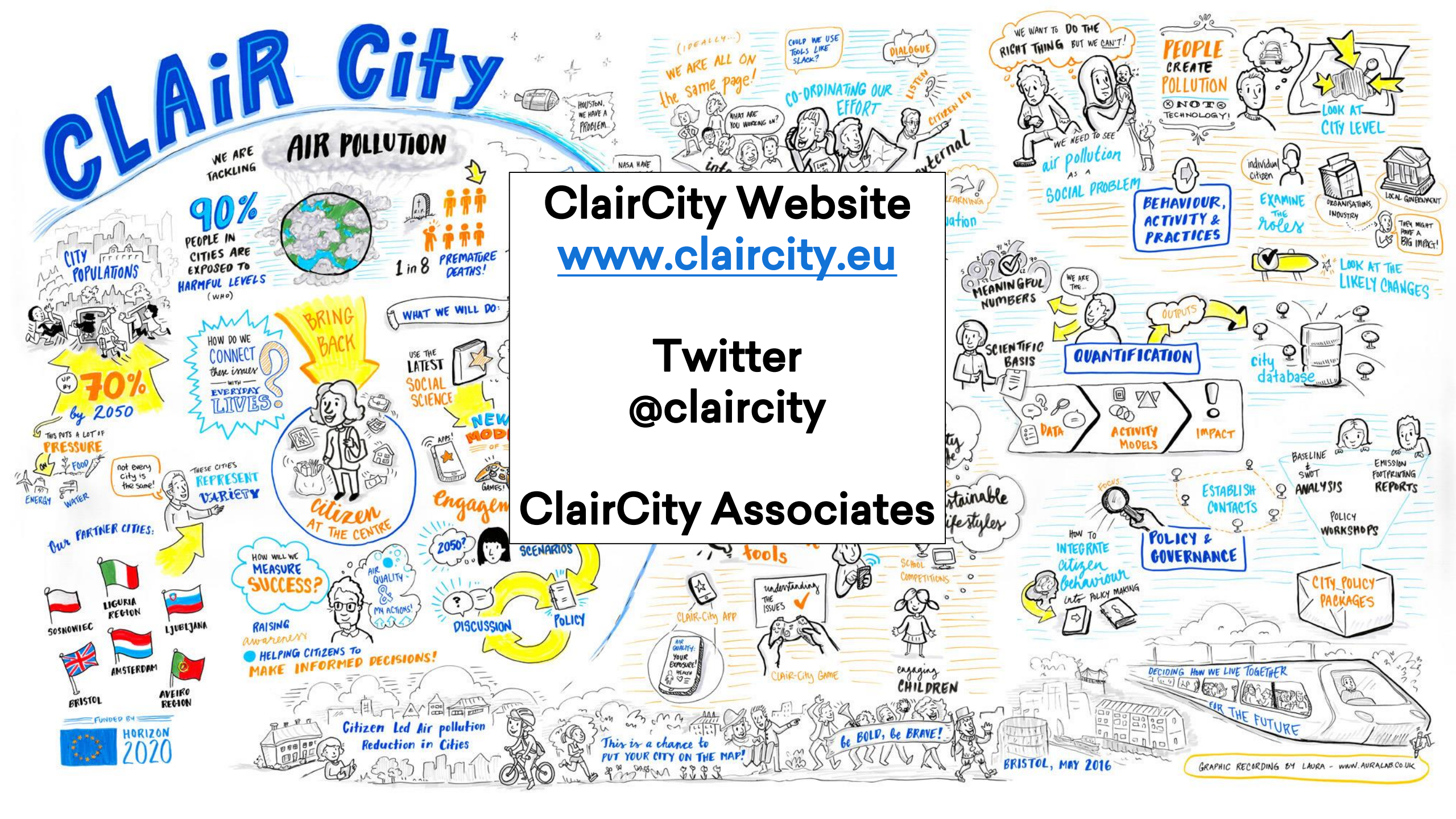
Activities

Setup:

- Data: collection, exchange, management
- Models: from behavior → activity → emission → impacts (air quality & carbon footprint)

Outputs:

- City database
- Model toolkit: development integration
- Quantitative impact assessment (case studies)



ClairCity Website

www.claircity.eu

Twitter

@claircity

ClairCity Associates


Thank you for your attention!