

SMURBS

SMart URBan
Solutions
for air quality,
disasters and city
growth

User requirements and gap analysis

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Context and motivation

- Large parts of the population lives in urban areas
- Cities are constantly growing – causing problems that need to be tackled
- Poor air quality and possible disasters are threats for urban areas
- Need for quick and comprehensive information of the urban population
- Increase quality of life in urban areas

Approach

Smart urban solutions in the areas of air quality, disasters and urban growth

- Find out what is there and what is planned
- Find out what is required
- Analyse the gaps
- Develop strategies to close the gaps



Objectives of WP2

In the areas of

air quality, disasters and urban growth:

- Identify the user requirements
- Establish inventories of
 - Available smart urban solutions
 - Policy and legal framework on different levels
- Perform a gap analysis that summarizes
 - User needs
 - Future research needs

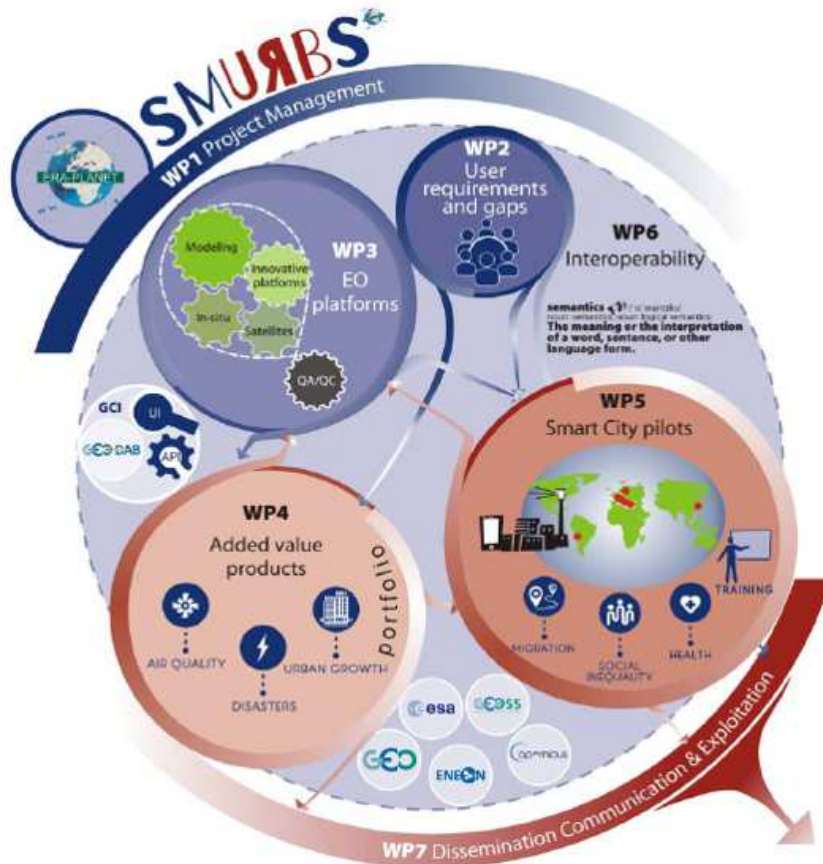
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Eleni Athanasopoulou; 12-09-2017

Links with other WPs



Many activities build upon the user needs analysis

- WP3: Spatio-temporal requirements for observations
- WP4: Selection of tools, pilot cities and case studies
- WP5: Selection of pilot cities, test beds and follower cities
- WP7: Link to smart sensors and instrumentation companies, outreach activities

Steps to be taken

- Desktop/Internet research for available and projected smart urban solutions
- Establish inventories of available/projected solutions and the legal framework
- Identify possible partners for extensive interviews on user needs and gaps
- Plan workshop with selected stakeholders (how many, where, which topics, methods, ...)
- Analyze gaps and develop ideas how to fill them

Who we will address



Users and stakeholders

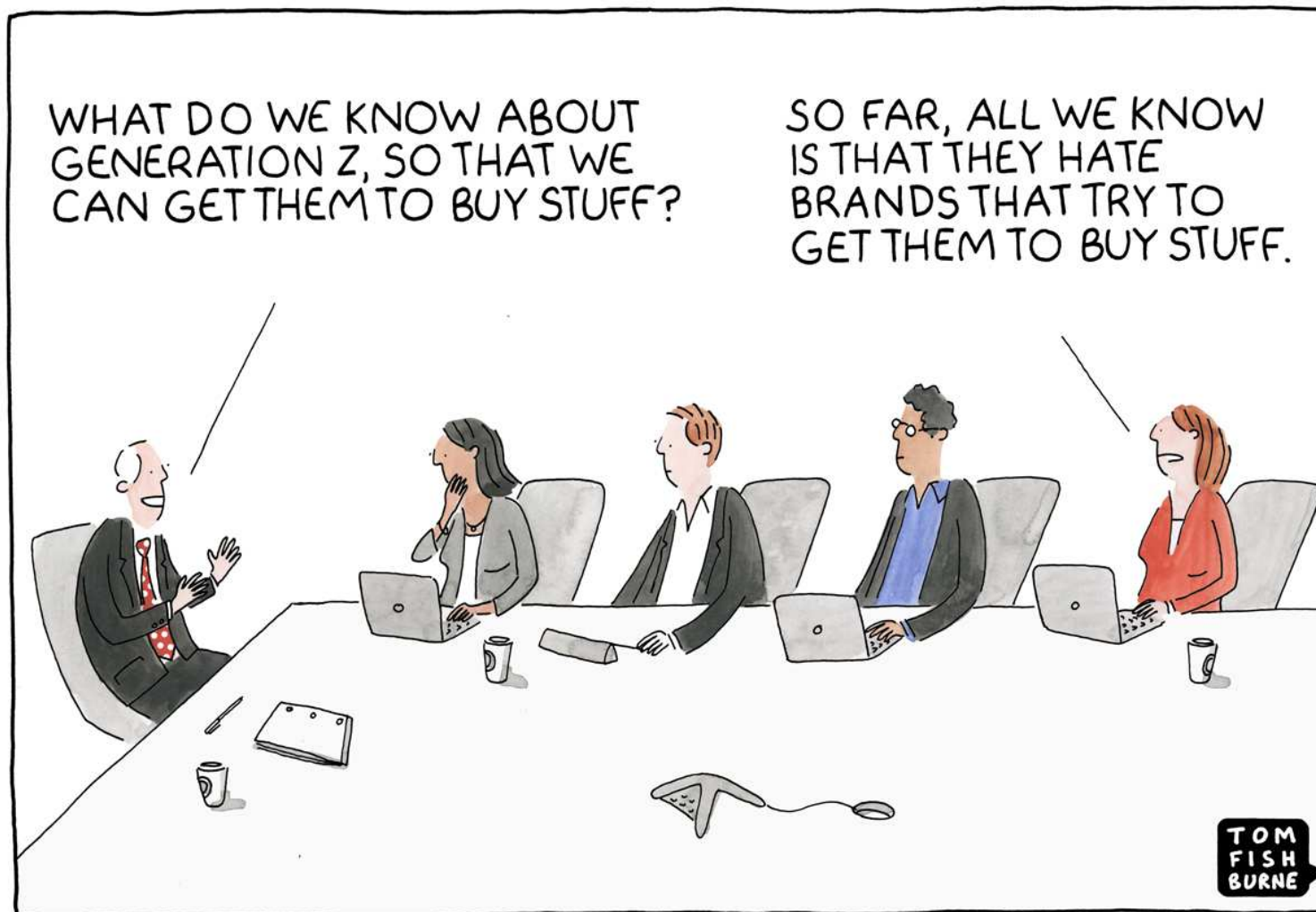
- Authorities on city level (environmental/city development/traffic and infrastructure)
- National associations of cities
- Policy makers
- NGOs
- SMEs (sensor development, software development, ...)

Interviews

With selected stakeholders

- How do the available smart urban solutions look like?
- How were they implemented?
- Which kind of observations or models are included?
- To what degree are the smart urban solutions used?
- Who are the users?
- What needs to be improved?
- What would be needed for these improvements?





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Inventory of existing knowledge

From a desktop/internet research and interviews with selected stakeholders

- Existing smart city solutions (e.g. AQ information systems, disaster warning systems, etc.)
- Technologies and methods applied
- Structured review method



Inventory of EU & national policies

Literature research and interviews with relevant authorities

- European, national and local policy level
 - Find obstacles for the implementation
 - Review decision making mechanisms
 - Review involvement of citizens and NGOs
- Inventory of success stories and implementation obstacles*

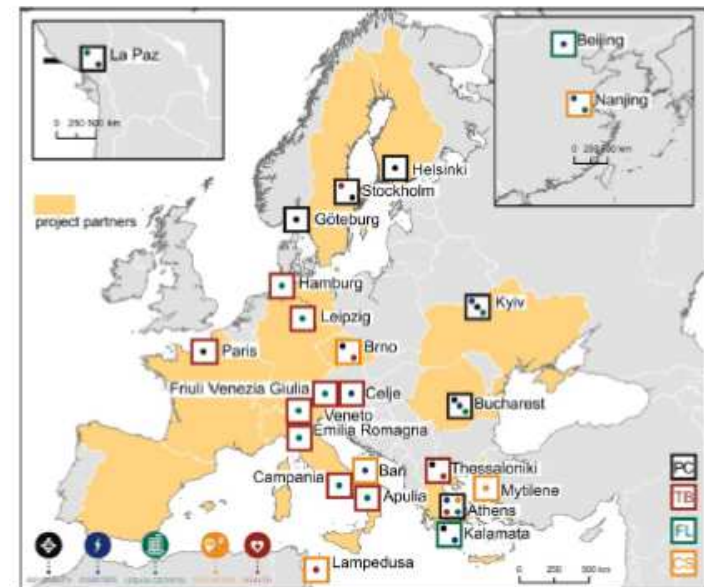


Feed to pilots

- Identify most suited cities along the following criteria:
 - City specific pressures
 - Feasibility
 - Local partners and capacity
 - Replicability of the smart urban solution envisaged
- Collect good practices and evaluate the options to transfer them to other cities

Workshop practicalities

- Workshops also serve for dissemination and outreach (WP7)
- They will be held in pilot cities with local SMURBS partners
- They will partly be organized as side events (EGU, Copernicus user fora, ...)



Gap analysis

- Covers the
 - technological
 - methodological
 - legalframework
- Supports the selection of tools in WP4
- Interviews and workshops will feed the analysis

Take home ...

The user requirements and gap analysis will be the basis for a number of decisions to be taken in SMURBS (e.g. pilot cities and test beds, selection of tools, outreach activities).

All partners need to contribute to the inventories of smart solutions and legal frameworks.