

Disruptive technologies for urban development...



Benefit or burden?



URBANITE

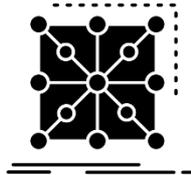
[www.urbanite-h2020.eu](http://www.urbanite-h2020.eu)

**Data-driven and Evidence-based Decision making in the urban transformation field using disruptive technologies and a participatory approach.**

The URBANITE project provides, by means of a co-creation strategy, a long-term sustainable ecosystem model that articulates the expectations, trust and attitude from civil servants, citizens and other stakeholders in the use of disruptive technologies in the context of urban mobility planning.



Knowledge



Data management



Policy decision making



Validation



Business models

Supporting **decision - making** in  
Urban Transformation

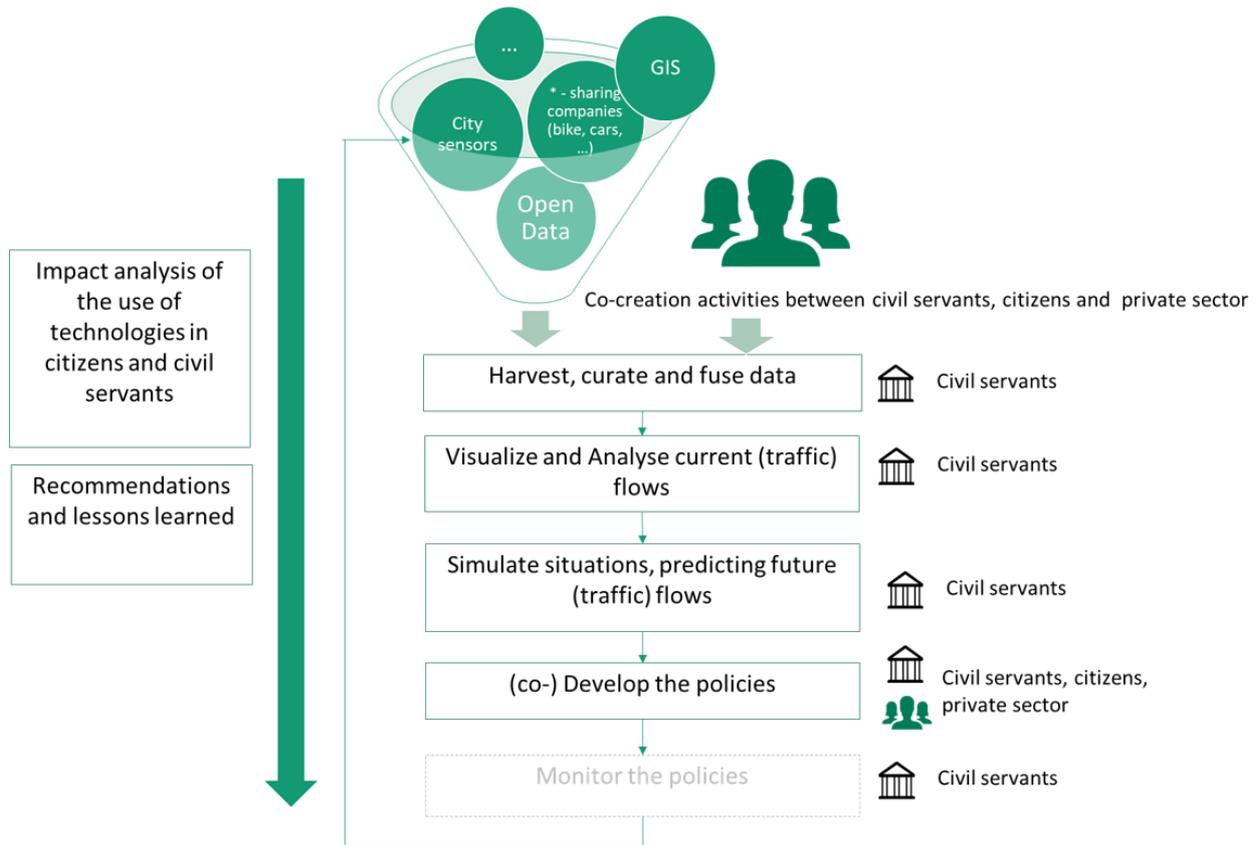
with *disruptive technologies*





# Supporting the decision-making in urban transformation with the use of disruptive technologies

## APPROACH



## KEY RESULTS

### URBANITE Solution



**SoPoLab**

a digital co-creation environment and a set of approaches to help co-design and co-create policy guidelines with all involved actors.



**Data Management Platform**

a platform supporting the entire data processing chain from collection, aggregation, provisioning to using the data.



**Decision-Support System**

powerful analytics tools that combine multiple data sources with advanced algorithms, simulation, recommendation and visualization.



**Recommendations and pathways**

Pathways to provide public administrations guidance on the adoption of disruptive technologies and data in their policy making processes.



## Supporting the decision-making in urban transformation with the use of disruptive technologies

### BENEFITS



#### Make the most out of data

Prepare the data and make it usable with the URBANITE data curation components: data quality checks, transform unstructured information into high quality data sets, address privacy issues with anonymization and pseudonymization, guarantee data interoperability.



#### Make the data management process more efficient

Handle the entire process: fetch data from various heterogeneous sources, transform, fuse and map it and store it in dedicated databases ready for its use.



#### Learn from short- intermediate- and long-term trends to improve urban mobility

e.g. learn from the trends of peak hours in which a street is blocked or from the use of a certain transportation system (bikes, public transport, taxi etc.). Data analysis results will be visualized to show traffic density, traffic flows, points of interest etc.



#### Anticipate behaviours and delimit unforeseen consequences

Simulate the effect of different traffic situations (through the use of artificial intelligence algorithms), e.g. simulate the effect of opening a pedestrian street at certain times, of locating electric charging stations or bike sharing points in certain areas.



#### Identify potentially problematic or otherwise important events

These events would have a high price if discovered in the real life. Identify events with cutting edge detection methods and validate mobility policies in a virtual environment with simulation techniques



#### Create public policies and services “with” people and not just “for” them.

Put people at the centre of urban mobility policy making, making sure policies are based on shared values and principles and address effective needs of the citizens and relevant stakeholders.



#### Foster cross-departmental collaboration by creating an urban ecosystem

Optimize urban management by involving public administrations, private transport companies and citizens.



#### Boost and guide an efficient and successful digital transformation

Get guidance on the adoption and implementation of big data, artificial intelligence and algorithms in urban mobility decision making.

### USE CASES



Amsterdam



Bilbao



Helsinki



Messina

# CONSORTIUM



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**Slideshare:** [www.slideshare.net/URBANITEProject](http://www.slideshare.net/URBANITEProject)

**GitHub:** [git.code.tecnalia.com/urbanite](https://git.code.tecnalia.com/urbanite)

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