

Senator

Smart Network Operator Platform
enabling Shared, Integrated and more
Sustainable Urban Freight Logistics



A new urban logistics model for enhancing the sustainability of cities:

SENATOR project will provide cities with the key to better urban planning, giving them the tools, infrastructure and capabilities to plan sustainable urban logistics systems.

Challenges

The total percentage of the EU population living in urban areas is increasing and consumer trends are shifting towards e-commerce. Occasionally customers are receiving multiple deliveries from different urban freight companies to the same location on the same day. The resultant overlapping delivery networks lead to urban freight taking up to 40% of road space.

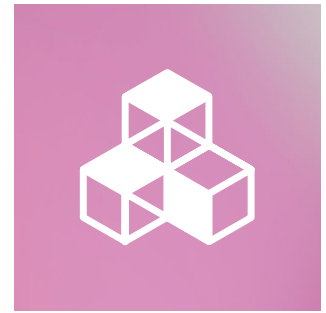
SENATOR takes this opportunity to provide a solution to these logistic challenges for our cities, towns and peri-urban districts, such as:

- The increasing demand for products by users/citizens.
- The increase in associated costs and the fragmentation of the logistics sector.
- The congestion caused by the distribution of goods in urban centres.
- The resulting environmental consequences such as the pollution that affects air quality in cities.

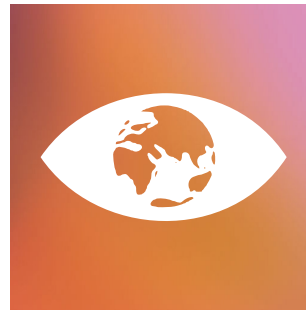
SENATOR project is aligned with the following Sustainable Development Goals (SDG's):



SDG 8 Decent work and economic growth



SDG 9 Industry innovation and infrastructure



SDG 13 Climate Action



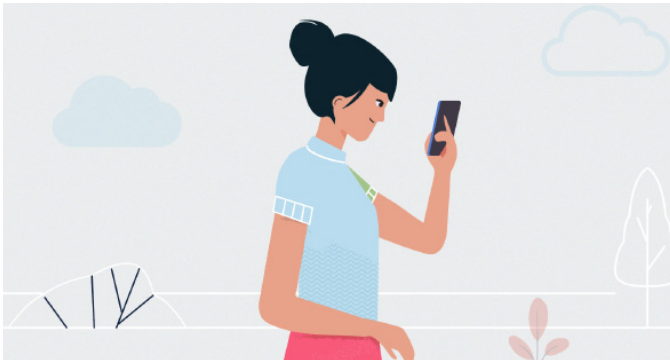
SDG 11 Sustainable Cities and Communities

Solutions

The main objective of SENATOR project is to provide 4 governance schemes for urban planning policies

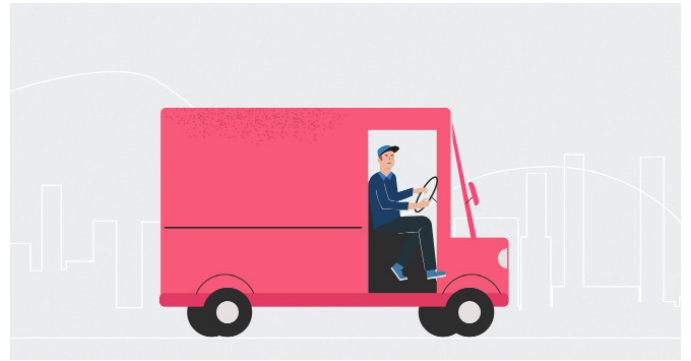
1

User demand planning



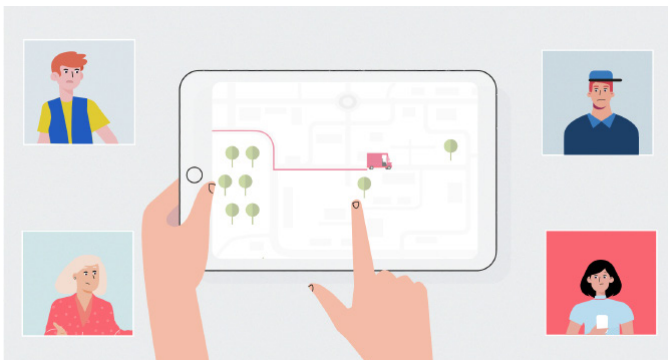
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Transport planning



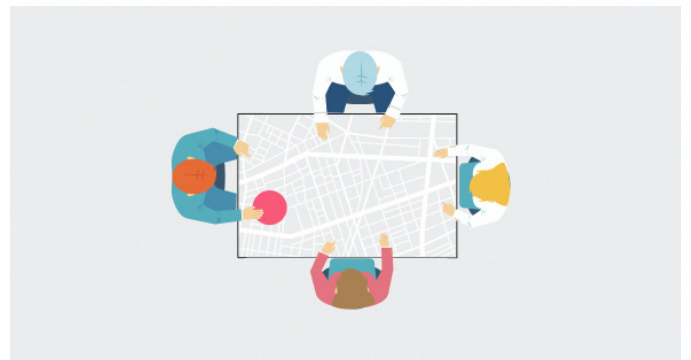
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Freight & Logistics planning



4

City infrastructure focused



PROJECT

SENATOR wants to develop a solution that integrates these four layers into one platform, that resembles a “control tower”.

The platform will work as a support tool for decision making, integration and planning of all logistics operations.

It aims at aggregating the existing demand regarding urban last-mile logistic services and matching it with available resources (e.g. vehicles) and infrastructure (e.g. parking places) in order to satisfy all existing needs in a sustainable way.

This will constitute an effective means of collaboration between the agents involved in the process: citizens, operators, shippers and city councils.

11

partners

5

countries

2

urban
living labs

48

months

4

million euros
budget

Urban Living Labs



SENATOR solutions will be tested, readjusted, and improved to fit the real-life environment at small scale within urban environment.

For this validation, Zaragoza (Spain) and Dublin (Ireland) will provide two metropolitan representative pilot sites that will ensure the project replicability and sustainability in different urban policy frameworks.

SENATOR will help city councils to manage and optimise, as part of a 360-vision approach, sustainable transport policies: incorporating freight flows into urban planning.

Consortium



 **Deusto**
Universidad de Deusto

 **Zaragoza**
AYUNTAMIENTO


Dublin City Council
Comhairle Cathrach Bhaile Átha Cliath

 **software** AG

 **MDS Transmodal**
Local & Global Transport & Logistics Research

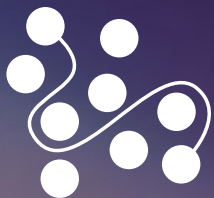
 **RINA**

zabala
INNOVATION

 **DOTGIS**

 **University College Dublin**
University for All

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Stay in touch!

www.senatorproject.eu



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