

Senator

Aoife O'Connor
An Post



Deusto
Universidad de Deusto

Zaragoza
AYUNTAMIENTO

 Comhairle Cathrach
Bhaile Átha Cliath
Dublin City Council

software AG

 **MDS Transmodal**
MDS TRANSMODAL

RINA

zabala
INNOVATION

 **DOTGIS**

 **University College Dublin**
Ireland's Global University

anpost
commerce
A world closer



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 861540

What is SENATOR?

International collaboration between 11 partners including An Post, Correos, the city of Zaragoza and Dublin City Council

48-month last mile delivery project funded by the European Commission's Horizon 2020 programme – commenced Sept 2020

Main objective – develop an online platform which will manage and optimise freight collections and deliveries, reducing the number of delivery vehicles entering into European cities

11 partners

5 countries

4 million euro overall
budget

Project Partners and Living Labs

Ireland

Urban Living Lab - Dublin

- *An Post* – pilot development
- *Dublin City Council* – pilot development support
- *UCD* – technical & pilot development support

Spain

Urban Living Lab - Zaragoza

- *Correos* – SENATOR project coordinator
- *University of Deusto* – technical manager
- *Dotgis* – dashboard design
- *Zabala* – project communications
- *Zaragoza City Council* – pilot development support

UK

- *MDS Transmodal* – business model development

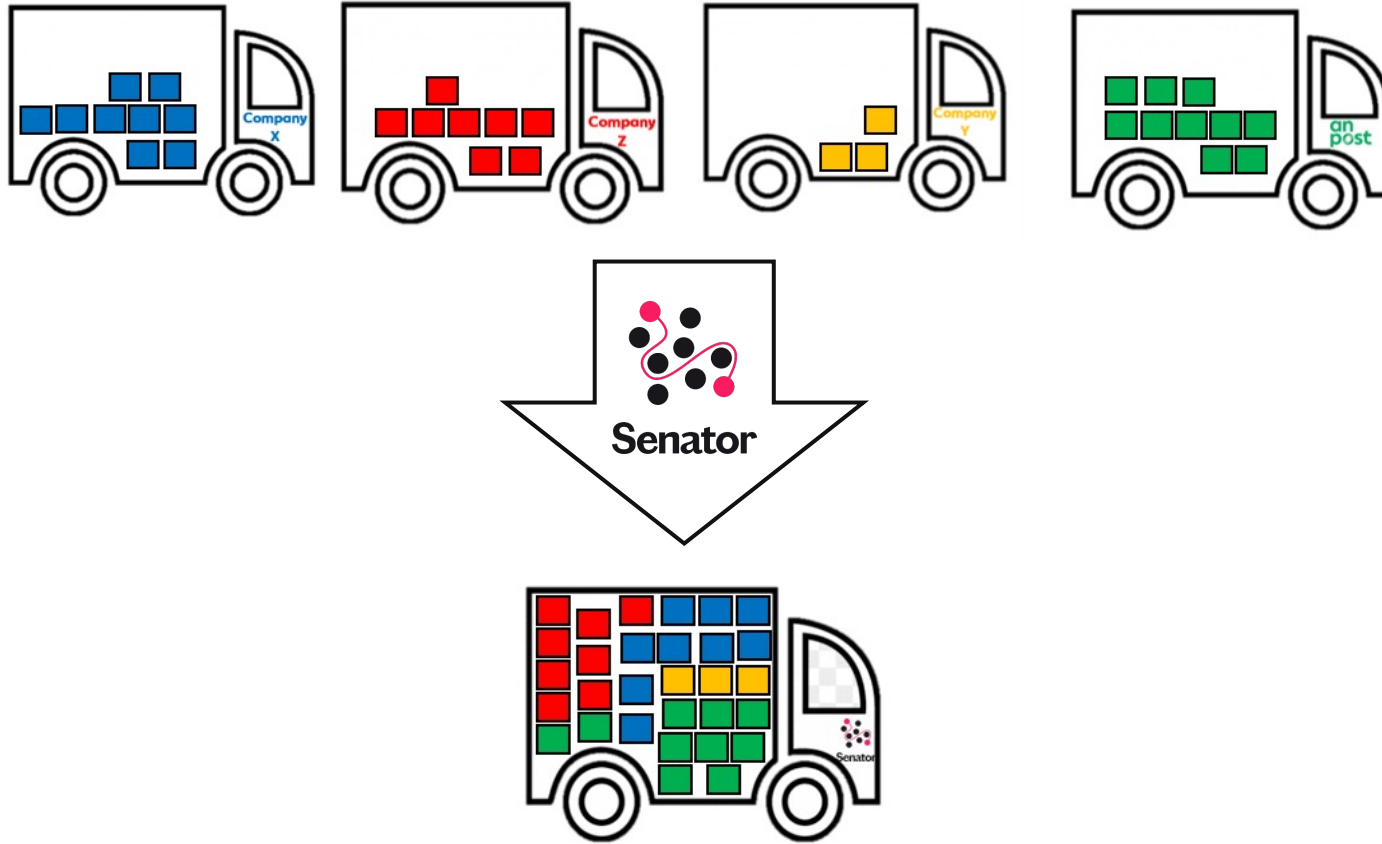
Germany

- *Software AG* – ICT platform development & design

Italy

- *Rina-C* – city logistics research

Urban Consolidation Centre (UCC) Dublin



Stakeholder Workshop

Mansion House, May 11th 2022



An Roinn Iompair
Department of Transport



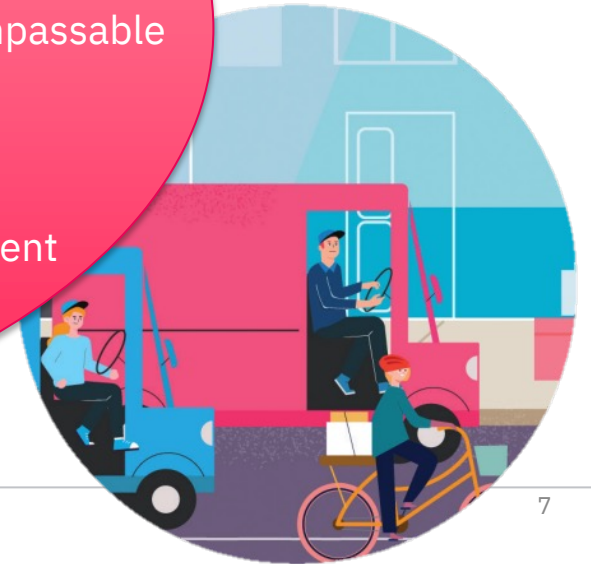
Stakeholder Workshop

- Dublin SENATOR stakeholder workshop was hosted at the residence of the Lord Mayor of Dublin on the 11th of May.
- Attended by representatives from logistics companies operating in Dublin, and representatives from the city council and government.



UCC Trial

- Following the stakeholder workshop, a number of follow up meetings took place with logistics companies operating in Dublin.
- The purpose of these meetings was to discuss collaboration for an Urban Consolidation Centre trial.
- The aim was to collaborate for a physical trial. However, a number of impassable barriers have resulted in a change to a theoretical trial.
 - A theoretical trial would enable testing of limitless scenarios
 - The results should help to identify the most sustainable and efficient ways to deliver ecommerce in European cities.



Barriers to Physical Trial



IT & Scanning



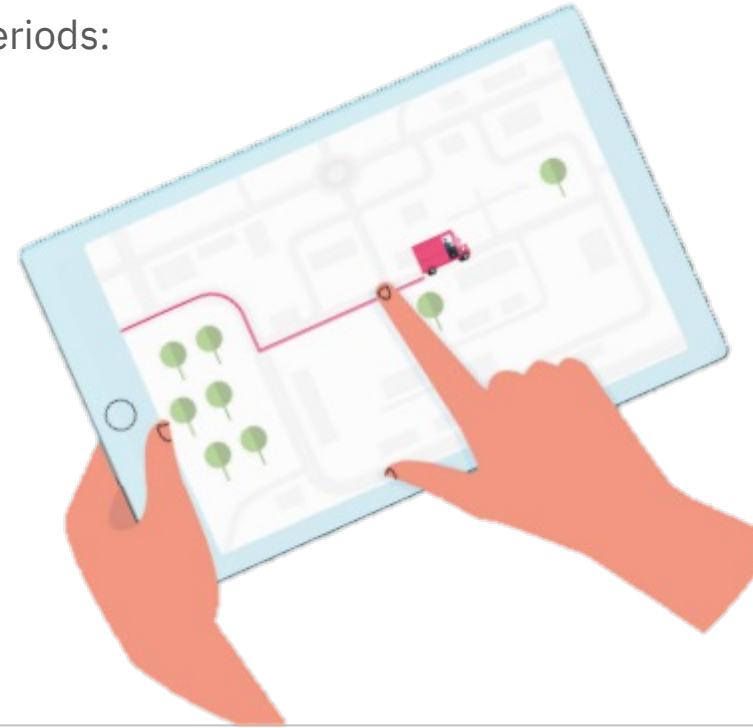
Missed Deliveries & Collections



Working Agreements

Theoretical UCC Trial

- We will use An Post delivery data combined with simulated data
- Different scenarios will be tested using delivery data from three periods:
 1. Peak delivery period – two weeks following black Friday
 2. Quiet delivery period – two weeks in February
 3. Baseline delivery period – two weeks in May



Testing Scenarios

As is

- This scenario will include existing traffic restrictions and current pedestrianisation in the city

Pedestrianisation

- This scenario will explore the impact of extensive pedestrianisation in the city centre

Zero tailpipe emission zone

- This scenario will explore the impact of a zero tailpipe emission zone around the city centre which allows entry to zero emission vehicles only

Micro hubs

- This scenario will explore the impact of using Micro Hubs for last mile delivery.

Thank You

Questions?

Aoife.O'Connor@anpost.ie



Senator

<https://www.senatorproject.eu/>



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 861540