

**Interreg  
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ZCI

# City hubs and consolidation centres

Webinar Reducing the emissions of urban logistics

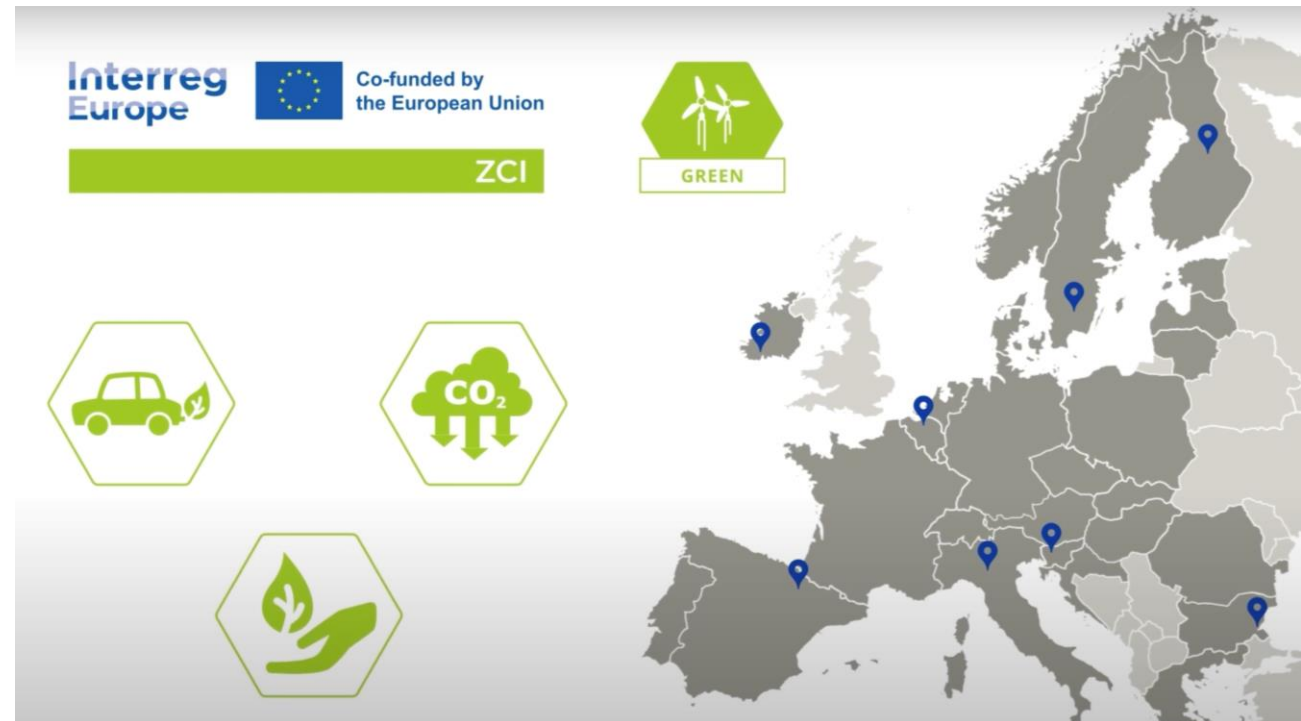
Giuliano Mingardo and Merten Nefs - Erasmus UPT

19 September 2024

# ZCI Project

## Main objective

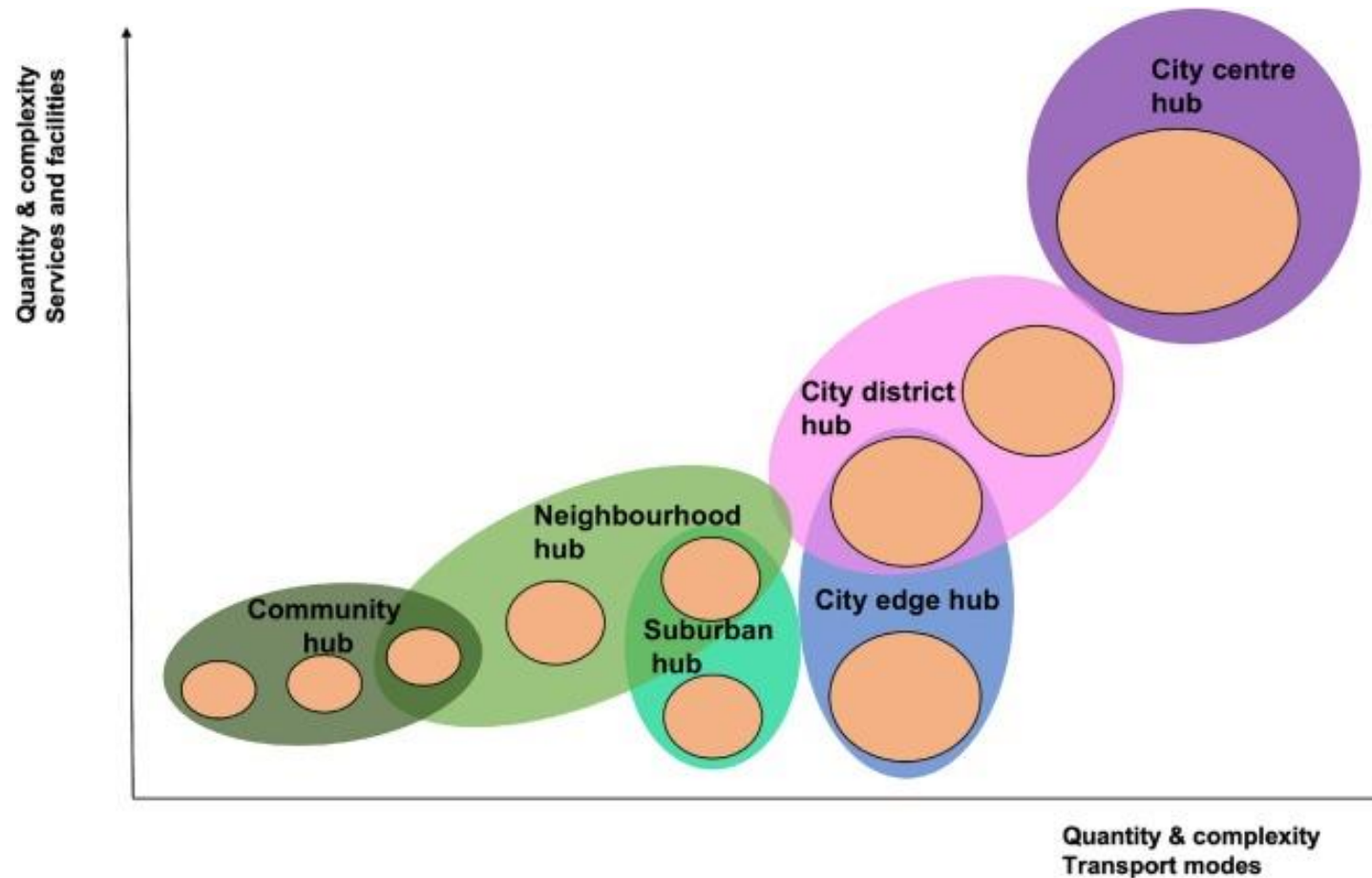
- ZCI will strengthen the role of 8 Public Authorities to accelerate the provision of zero carbon infrastructure by increasing their capacity and provide capacity-building support for others.



# ZCI Masterclass on Sustainable Urban Logistics – an overview

- The MC took place in Cork 17-18 October 2024
- Main contents
  - Types of hubs
  - Urban Consolidation Centre (UCC) in Dublin – SENATOR (H2020 project)
  - Flemish Green Deal Sustainable Urban Logistics (input from Mechelen)
  - Cargo bike (input from Cork and Kronoberg)
  - Main takeaways / lessons learnt

# Hub typology - size and complexity



Weustenek and Mingardo  
(2023)

# Types of hubs



Microhubs



Groenten en kruiden



Fruit



Boter, kaas en eieren



Vega, vlees en vis



Brood



Broodbeleg



Local Foods hubs



Darkstores for instant delivery



# Types of hubs



Construction Hubs



Mixed-use hubs

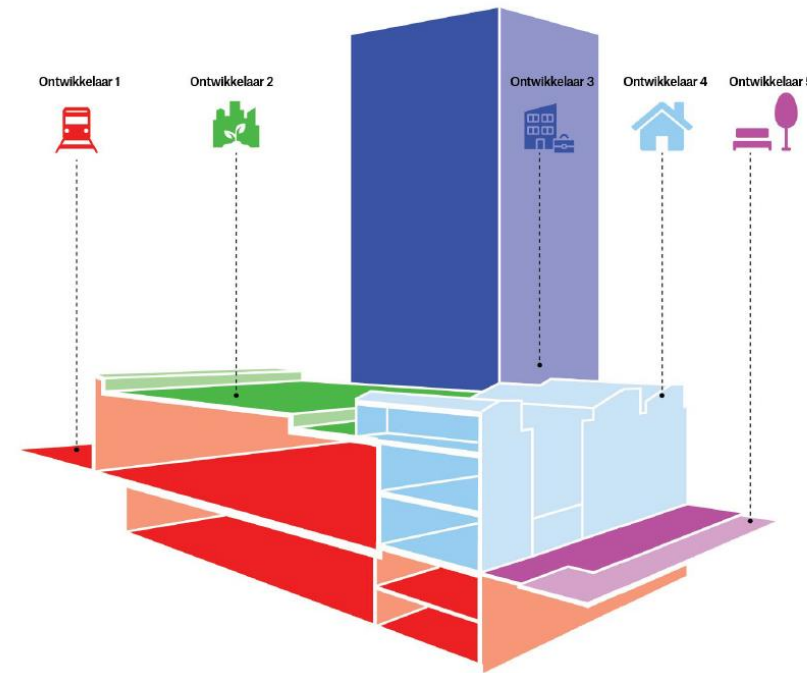


# Types of hubs



## Amsterdam CityLogisticHub

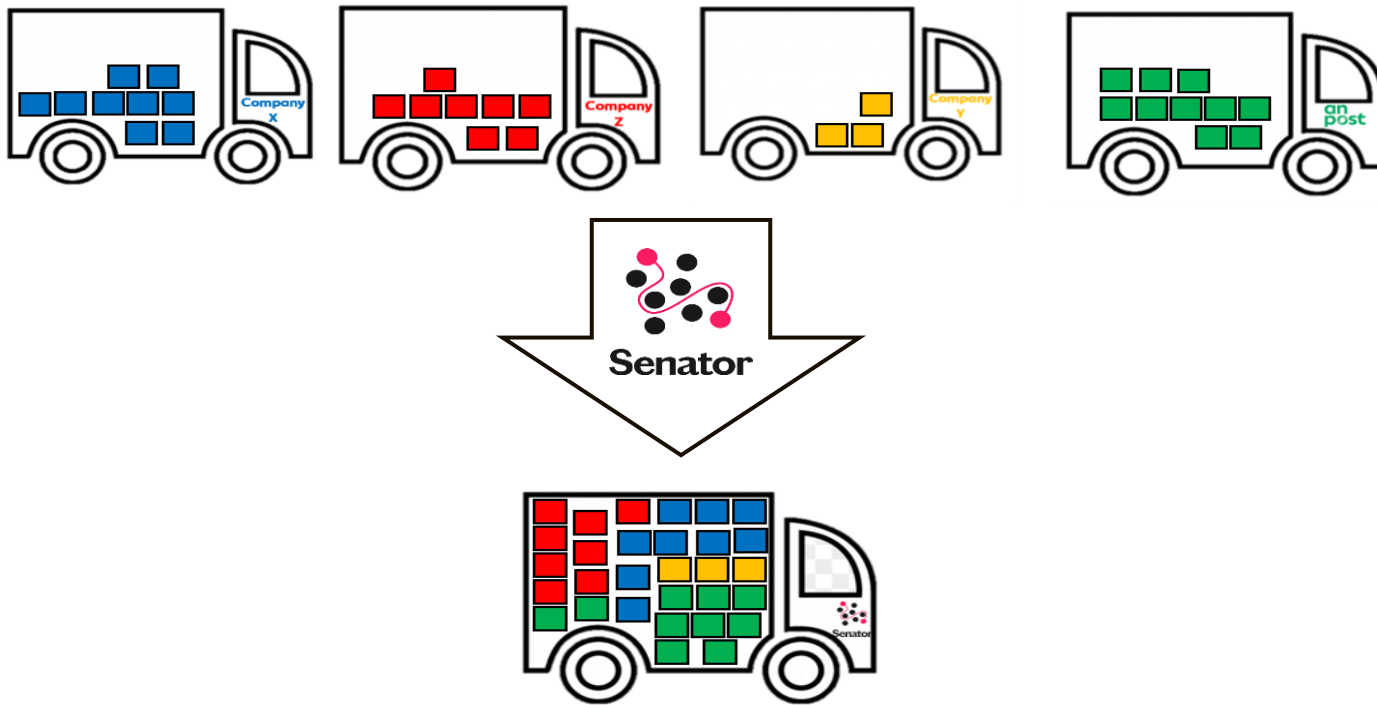
- Zero-emission policy
- Stacked warehouse
- Potential for waterbound deliveries
- Flexible sizes
- Charging, wind and solar power
- Production and (cold) storage



## Paris Chapelle International

- Zero-emission policy
- Mixed-use development (housing, offices, park, urban agriculture, sports, education)
- Metro station

# Urban Consolidation Centre (UCC) Dublin



Main Aim:  
to collaborate for a  
physical trial.





# UCC Dublin - Barriers to Physical Trial



IT & Scanning



Missed Deliveries & Collections



Working Agreements

# Flemish Green Deal Sustainable Urban Logistics

Main challenges:

- Awareness among stakeholders
- Profitability of zero-emission urban distribution
- Cooperation throughout the whole chain
- (Lack of) Legislation
- Charging Infrastructure
- Vehicles for the logistic sectors

Main Aim:  
to develop a toolbox for  
local governments to  
improve sustainability in e-  
commerce



# Conclusions

## Main takeaways from the ZCI Masterclass

- Multiuse of space combined with new mobility trends in cities creates **opportunities** for new and yet unexplored urban logistic solutions
- Main **barriers** to overcome:
  - Profitability / business case
  - Cooperation (trust) among stakeholders
  - Legal frameworks

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## How to organize a Masterclass

- Usually 1 full-day; mix of speakers, interactive exercise and field visits
- Speakers from inside or outside the consortium
- Identify a clear theme/topic
- Make sure the right stakeholders attend it

# THANKS

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