

# **POLIS Working Group & activities on Urban Freight**

ERRIN Transport WG meeting

Brussels, 20 February 2019

*Giacomo Lozzi, Polis Network*





# Network of Local Authorities for Transport Innovation

## 76 members



Environment  
& Health



Traffic  
Efficiency



Access



Road Safety  
& Security



Governance



# Why cities need to manage urban freight

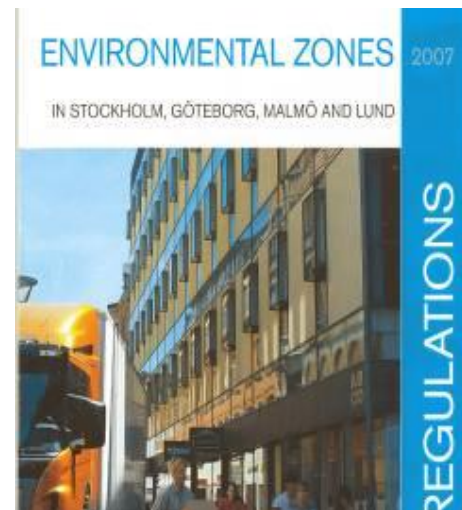
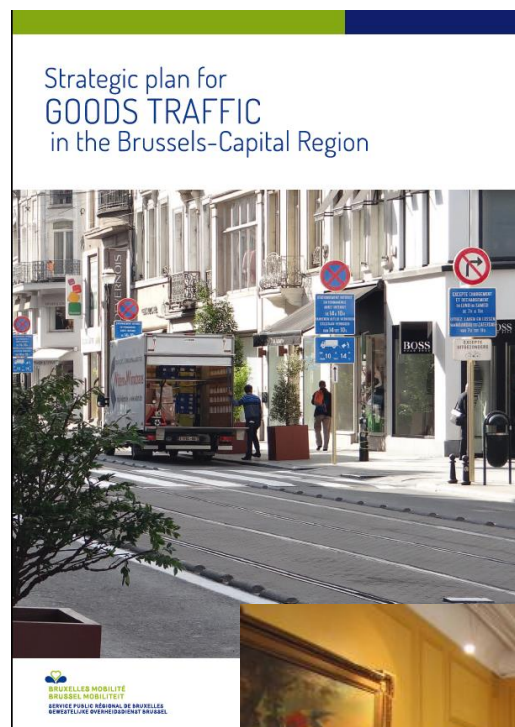
## City objectives:

- Decrease emissions
  - Air pollution
  - CO2
- Improve safety
- Enhance liveability
- Reduce congestion
- Boost economy



# Role of Local Authorities

Long-term strategies, planning and measures implementation



Lack of integration and coordination of different transport policies/ institutions

Wide range of actors, needs and possible solutions to be taken into account

Lack of data, consistency and robust evaluation

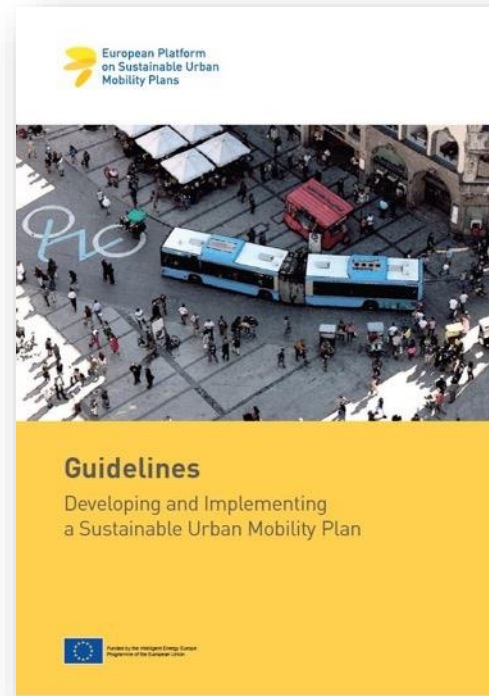
Clear role to be defined, limited resources and dedicated staff

# Policy background



## EC White Paper (2011)

- (1) [...] achieve essentially **CO2-free city logistics** in major urban centres by 2030
- (9) By 2050, move close to zero fatalities in road transport.



## Urban Mobility Package (2013)

Together towards competitive and resource-efficient urban mobility  
Guidelines on **SUMPs**  
Working documents on: access regulations, **city logistics**, urban road safety and urban ITS



## EC Study on urban logistics (2018)

- #1 ICT
- #2 UVAR Schemes
- #3: Stakeholders engagement
- #4 E-commerce
- #5 Clean Vehicles
- #6 Indicators and data collection



# Priorities of the UF WG

Priorities	Areas of intervention
Air quality	Plans, Access Regulations, Low Emission Zones
Clean & alternative fleet promotion	Procurement of zero-emission goods & services, e-charging infrastructure, incentives & subsidies
Space management and consolidation	Multi-use lanes, smart L/U bays, micro-hubs, (construction) consolidation centers, DSPs, park & charge, etc.
Data	What to share and in what form to achieve flows consolidation

September 2017

## United States-European Commission Urban Freight Twinning Initiative: Compendium of Project Summaries

Overview of Second Annual Urban Freight Roundtable at 2017 Transportation Research Board Annual Meeting



Developing innovative solutions built for the  
as complex as urban logistics, where  
UPS works with POLIS Network  
research and advocates for  
solutions

# Policy, Promotion & Partnerships

- [CIVITAS Urban Freight Conference \(2018\)](#)
- [NMS WG \(EIP SCC\): Living Lab to support innovation for city logistics in EU cities](#)
- [EU-US Urban Freight Research and Development Twinning Initiative \(2015-2018\)](#)
- Dialogue with external and industry stakeholders



# Private sector: transition to clean deliveries

Ikea to deliver emissions-free as of 2025

Amazon plans to make 50% of shipments net zero carbon by 2030

DPD Group Carbon neutral commitment: 100% carbon neutral delivery, at no extra cost

First electric VOLVO trucks delivered to customers

EV100: global initiative of companies committed to making electric transport the new normal by 2030.

...and more!



ke 50% of shipments net zero carbon by 2030





# Partnerships with private sector

## – POLIS-ALICE dialogue:

- Public-private stakeholder dialogue between members of the POLIS Urban Freight Working Group and private city logistics operators (members of ALICE) to identify the actions needed towards the European goal of zero-emission city logistics by 2030.

## – Synergies with TDA:

- Together with the new Transport Decarbonisation Alliance, POLIS aims to revamp and relaunch the FREVUE Declaration of Intent (to unveil hidden demand for electric freight vehicles)

**Joint Statement of Intent: Electric Urban Logistics**

**Declaration of Intent:**

As an organisation active in urban logistics we express our intent to switch to zero emission capable road transport in urban areas using (hybrid) electric trucks. Traditional urban freight transport contributes to air pollution and its associated health risks. As a responsible organisation we want to play our part in addressing this important issue.

As an organisation active in urban logistics we agree that:

- The ambition to reach zero emission urban freight logistics is achievable
- At present, electric (including fuel cell) drivetrains are the only ones that do not produce tailpipe emissions
- There is only a very limited number of (hybrid) electric trucks on the market for which a business case can be made

As individual organisations active in urban logistics we cannot on our own create the conditions to make this business case feasible. Therefore we call and count on other parties to contribute:

- Local authorities: Coherent privileges for zero emission capable trucks, e.g. priority loading
- Regional, national and/or European authorities: Financial support to procure and deploy (hybrid) electric trucks to stimulate the market
- Government to implement a concession on payload regulations for vehicles where an electric drivetrain contributes to taking gross vehicle weight over 3.5 tonnes
- Producers-OEMs: development and production of (hybrid) electric trucks that meet the requirements of urban logistics operators

Name of organisation: \_\_\_\_\_

Name of contact person: \_\_\_\_\_

Permission to publish your organisation's name: \_\_\_\_\_

Date: \_\_\_\_\_

What is the approximate number of commercial vehicles in your organisation's fleet that you could replace with zero emission capable alternatives:

Number of trucks between 3.5t and 7.5t: \_\_\_\_\_

Number of trucks over 7.5t: \_\_\_\_\_

Additional comments: \_\_\_\_\_



Polis Urban Freight Working Group

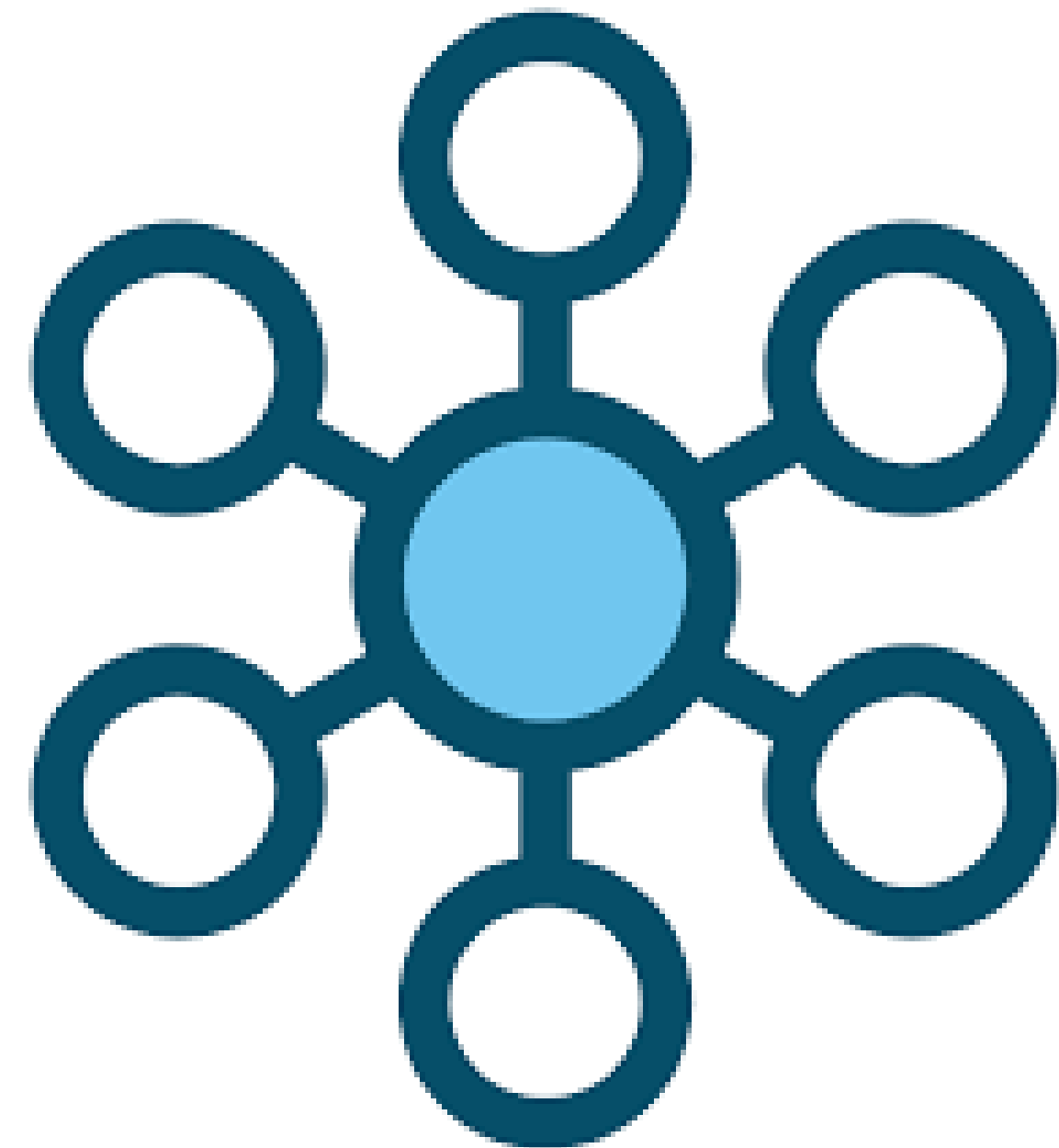
# **POLIS UF projects**



# Pooling European research activities on urban freight

Polis has a centralizing role at European level for projects and activities related to urban freight:

- Coordination of the CIVITAS Thematic Group on Urban Freight and Logistics
- Direct involvement (of POLIS and its members) in several European urban freight projects
- Link with POLIS Urban Freight Working Group



# EU-funded research projects: Horizon 2020

**ASSURED**  
integration of urban commercial EVs with high power fast-charging infrastructure

**BuyZET**  
Zero emission deliveries through smart procurement

**CITYLAB**  
Innovation & implementation processes for public-private measures for sustainable urban logistics

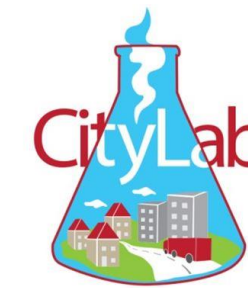
**FREVUE**  
Freight Electric Vehicles in Urban Europe to achieve emission free city logistics

**NOVELOG**  
New cooperative business models and guidance for sustainable city logistics

**SUCCESS**  
Solutions for Construction Supply Chains and material freight logistics in urban areas

**U-TURN**  
Urban food transport, including convenience stores and home delivery of internet groceries

**VITAL NODES**  
Central role of urban nodes in the TEN-T networks, as hubs facilitating the flow of freight



# Recent projects – outcomes

NOVELOG Sulp Guidelines

CITYLAB Living lab handbook

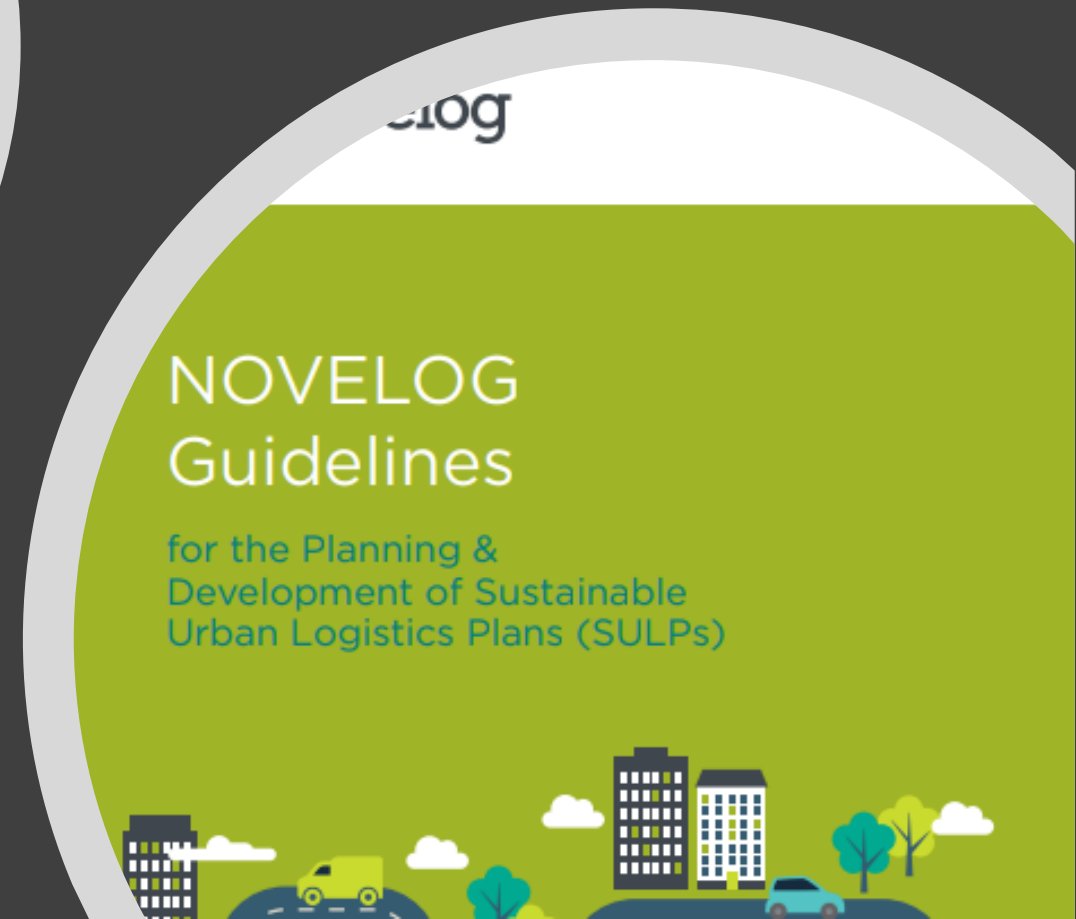
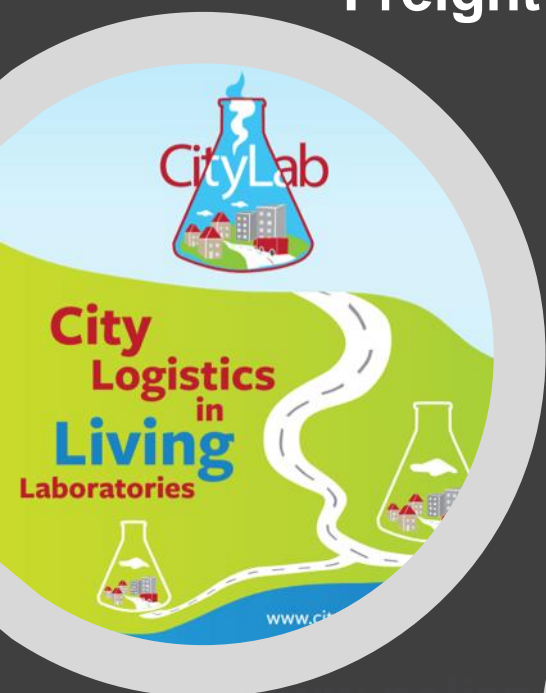
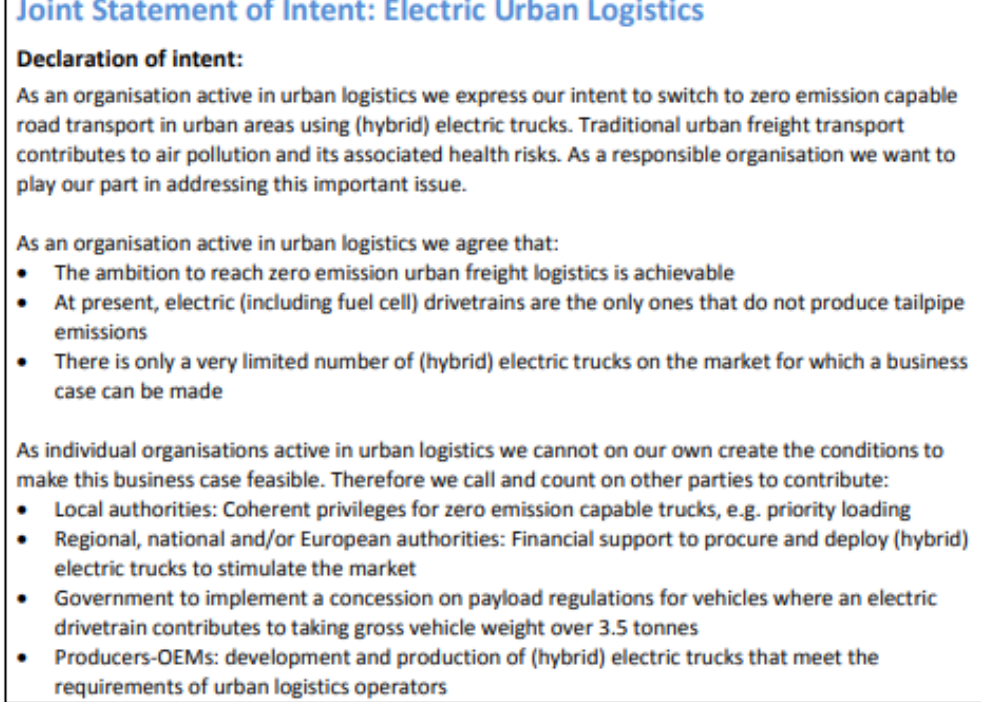
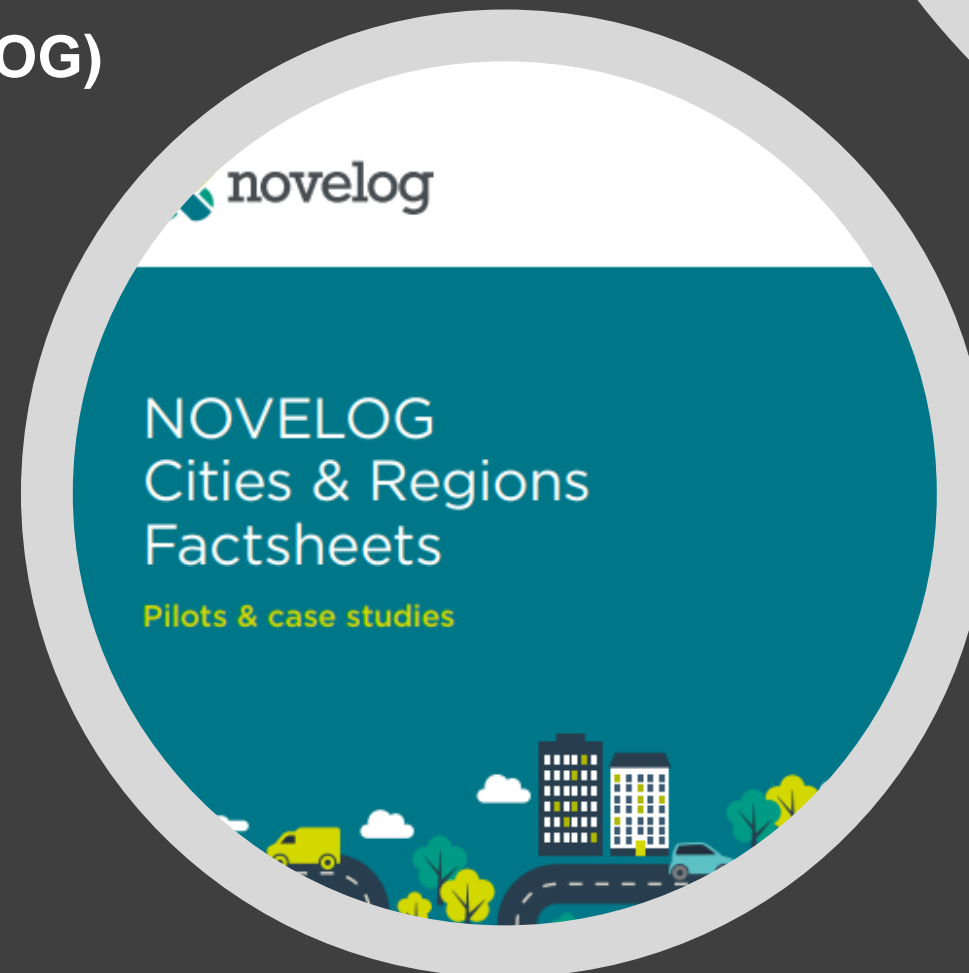
Cities and regions factsheets (CITYLAB and NOVELOG)

CITYLAB Observatory

FREVUE Declaration of Intent

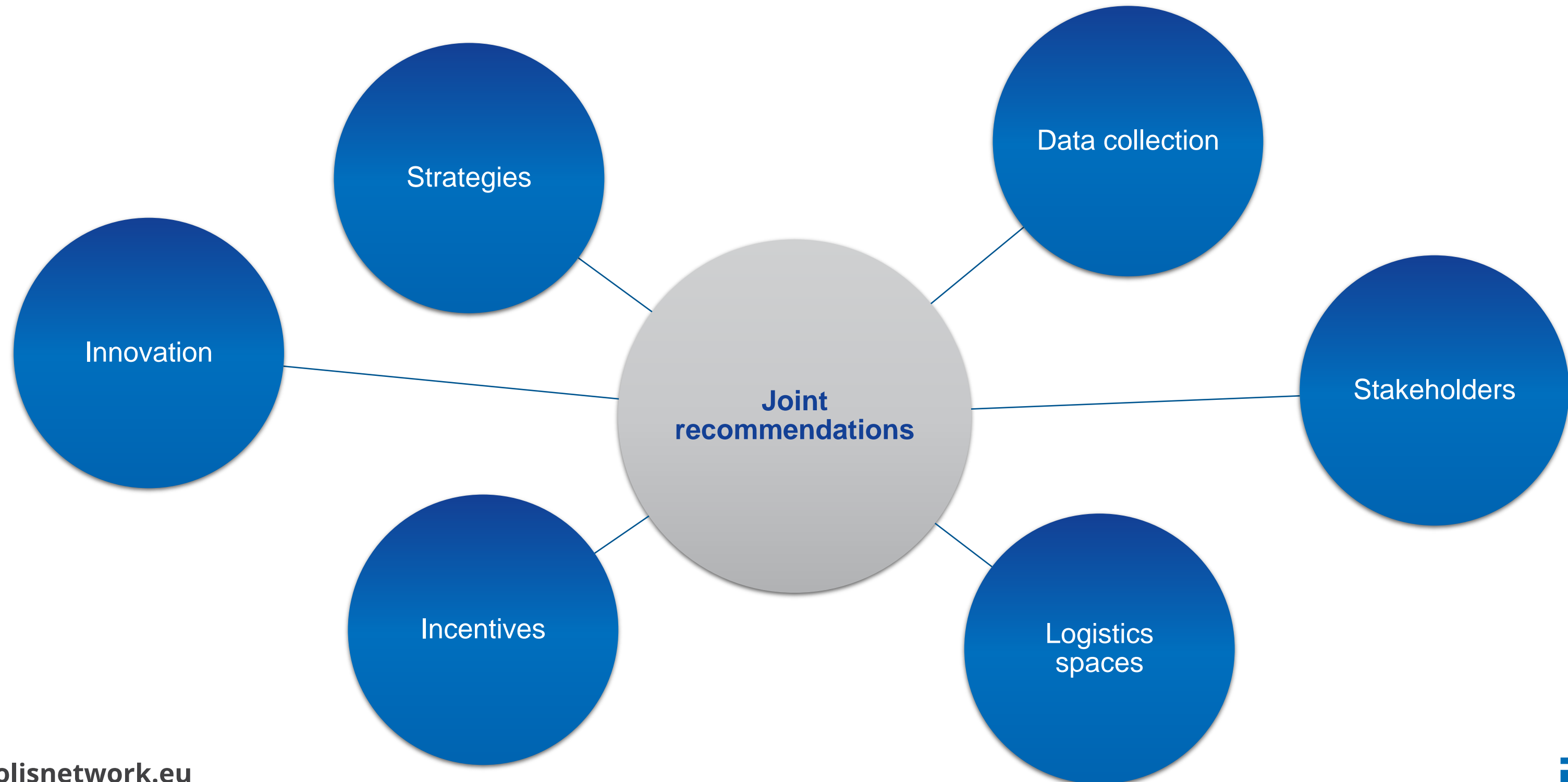
SUCCESS best practices guide

Freight TAILS final report





# CIVITAS Urban freight projects: Joint recommendations





# Innovation is **NOT ONLY** about technology

## Key elements:

- **Freight vision** incorporated in land use and transport strategy (SUMP or dedicated SULP)
- **Incentives & regulation** towards alternatives
- **Clear understanding** of flows and freight context, as well as consumer behaviour: improve data and modelling
- **Pilot and testing** → but then upscale!
- **Coordinated and integrated approach**: horizontal (other cities) + vertical (regional/national/EU)
- **Stakeholder engagement** is essential: reconcile different (conflicting) needs and views
- Promote use of **interoperable** and **shared** infrastructure
- **Educate/raise awareness** amongst citizens and customers: freight → liveability of the city



# UF events 2019

## Urban Nodes Forum (Vital Nodes)

- Date: 3-4 April 2019; location: Budapest

## BuyZET final event

- Date: 7 May 2019; location: Brussels

## ASSURED Workshop on utility e-trucks

- Date: week 13-17 May 2019; location: Bilbao (tbc)





# Thank you!

# Questions?

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