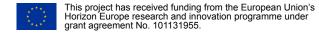




Eurisy Members' Day

Space applications for urban challenges: Sustainable mobility

16 December 2024 Alan Mandrillon





SPACE4Cities in short

Via a Pre-Commercial Procurement of innovative and smart use of satellite data, the SPACE4Cities project aims to build replicable solutions for better and more dynamic management of public areas, green spaces, transport infrastructure and city maintenance – and cities' overall resilience and functionality.

Pre-Commercial Procurement project, funded by Horizon Europe

- Budget 5.2 M€
- Incl. 2.87M€ budget for SMEs/suppliers

Timeline 42 months: February '24 to July '27

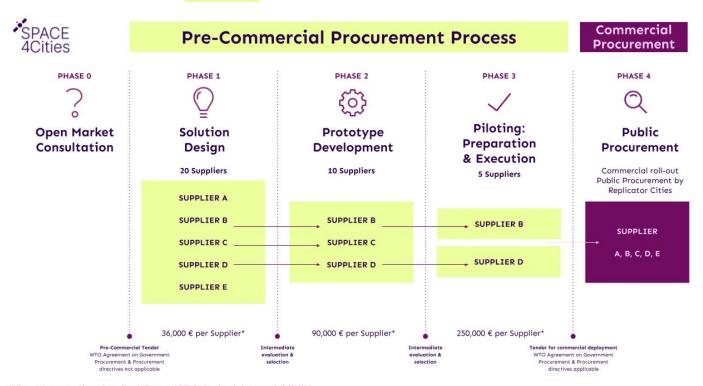
Phases: Open Market Consultation; Solution
 Design; Prototyping; Field Testing; Exploitation
 and scaling

Demonstrators developed in the Buyers Group ('26-27)

- In 5 partner cities: Amsterdam, Athens, Ghent, Guimaraes and Helsinki
- Smaller pilots in 10 replicator cities around Europe (OASC's task)
- An expert partner: Aerospace Valley

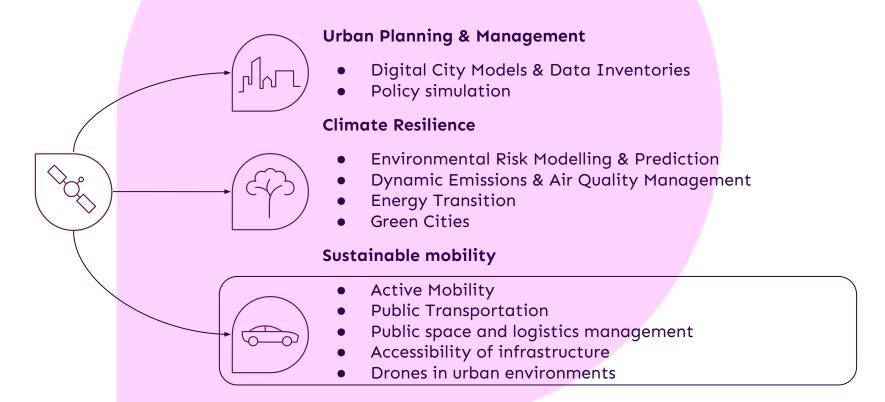


The Pre-commercial Procurement





SPACE4Cities Challenges





EU policy on urban mobility



New Urban Mobility Framework, 2021

The *Trans-European Network Transport (TEN-T*) Regulation, revised in 2024, will require <u>data</u> from 431 cities by 2025, at least on:

- greenhouse gas emissions,
- congestion,
- road deaths and serious injuries,
- modal share and access to mobility services,
- air and noise pollution.



Urban mobility topics



Main domains

Road vehicles
Cycling
Walking
Shared mobility
Micromobility
Public transport

Logistics UAM

Mobility infrastructure

Main challenges

Health Liveability **GHG** emissions Air pollution Light pollution Noise Resilience Demand variations Congestion Spatial constraints Accessibility Urban road safety Last-mile deliveries Soil sealing

Space-relevant solutions

Public transport optimisation Location Based services Management of street lights Smart parking, geofencing Autonomous electric transportation Real-time monitoring of noise and pollution Disaster and Emergency tracking Supporting advanced urban planning IoT and city assets tracking Low-emission zones (LEZ) and UVAR Recharging and refuelling infrastructure for electric and hydrogen vehicles Mobility-as-a-service (MaaS) apps Intelligent Transport Systems (ITS) Mobility infrastructure planning and monitoring



Urban mobility use cases





Thank you Kiitos Merci Ευχαριστώ Bedankt Obrigado





