Holistic Approach For Providing Spatial & Transport Planning Tools And Evidence To Metropolitan And Regional Authorities To Lead A Sustainable Transition To A New Mobility Era

HARMONY consortium

21 partners from 9 European countries

Background

- Submitted to the call Mobility for Growth 2018-2020
- Only proposal funded under topic LC-MG-1-2 Sustainable multi-modal inter-urban transport, regional mobility and spatial planning (RIA)
- Budget: 7,649,645.25 Euro
- Duration: 06/2019 – 11/2022

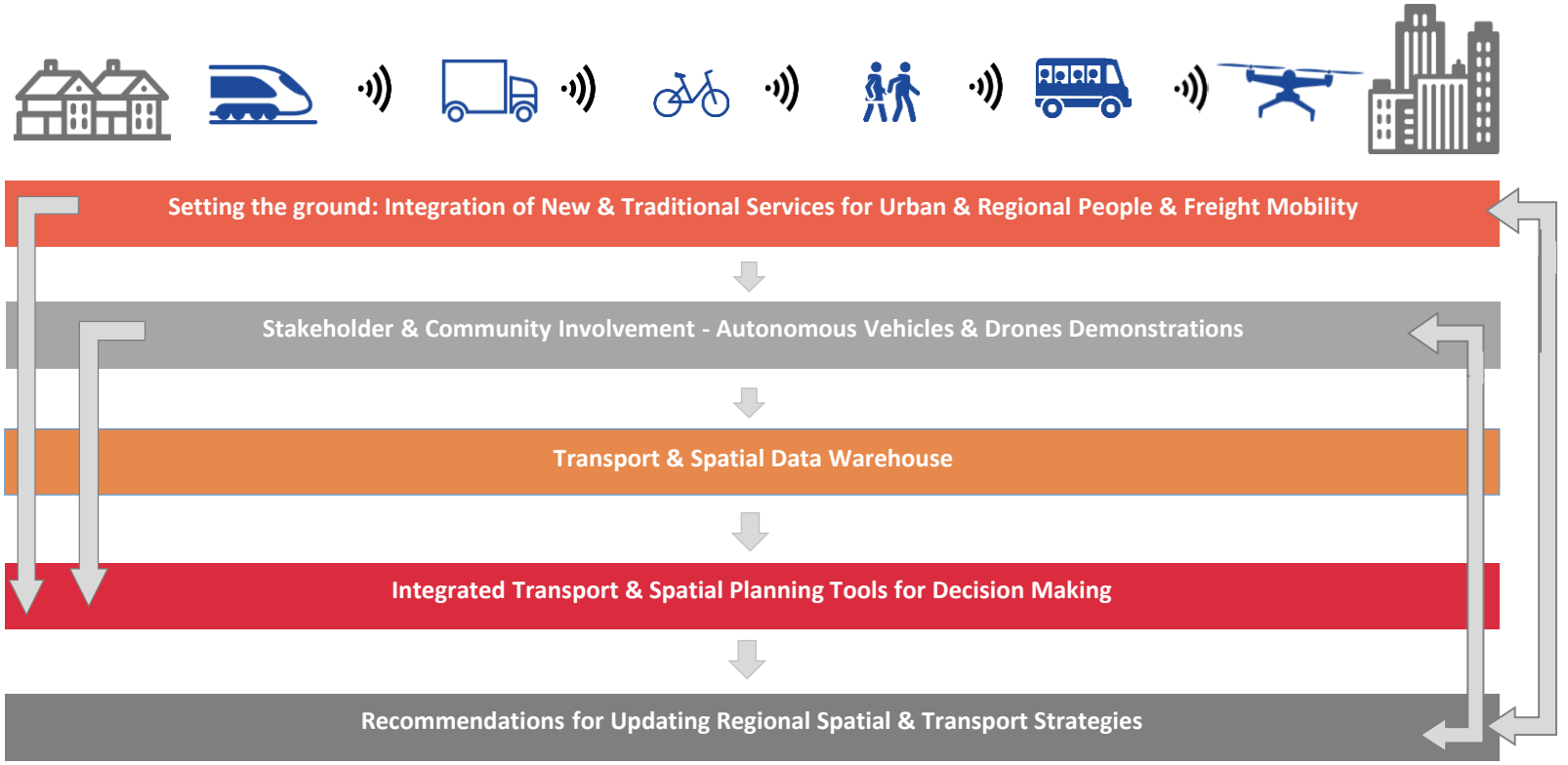
Vision

Enable metropolitan area authorities to lead the transition to a low carbon mobility through **new** harmonised spatial and multimodal transport **planning tools.**

Objectives

O1	• new **mobility** services, concepts and technologies for **people and freight**
O2	• **co-creation** labs for people and freight
O3	• Integration of **AVs and drones** integrating with traditional transport modes • Collect **data** from citizens and freight operators
O4	• Develop methodologies to combine and **integrate** multidisciplinary data related to new forms of mobility, collective transport and planning
O5	• new spatial and transport **planning model suite** (MS)
O6	• Apply the HARMONY MS to support metropolitan planners and **decision-makers**
O7	• Link the HARMONY MS (metropolitan-level to **EU**-wide transport models
O8	• **Recommendations** to update spatial and transport strategies and SUMPs
O9	• **disseminate** the developed model suite

HARMONY conceptual architecture



HARMONY Metropolitan Areas' Activities

Rotterdam
- Electric AV demonstration - freight
- HARMONY MS - Freight

Oxfordshire
- Electric AV demonstration - Passenger & freight
- Drones demonstration - Freight
- HARMONY MS - Passenger

Trailblazing

Athens
HARMONY MS - Freight

Turin
HARMONY MS - Passenger

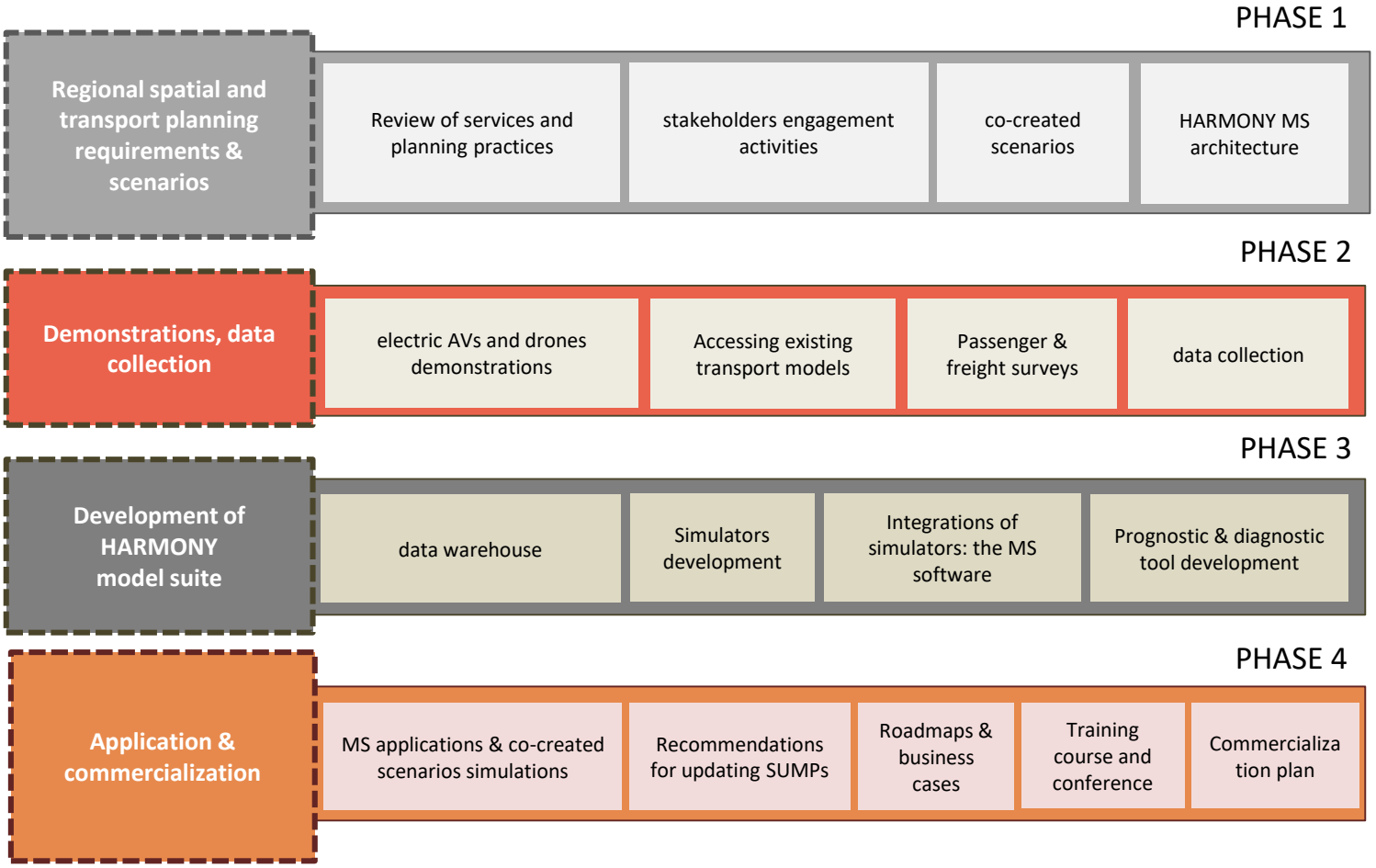
Aspiring

Trikala
HARMONY MS - Passenger

GZM
HARMONY MS - Passenger

Follower

HARMONY methodology



Main outcomes

- The HARMONY MS (software)
- Training material and activities for using the HARMONY MS
- Recommendations for SUMPs update (AVs & drones included)

HARMONY

Thank you
for your kind attention!

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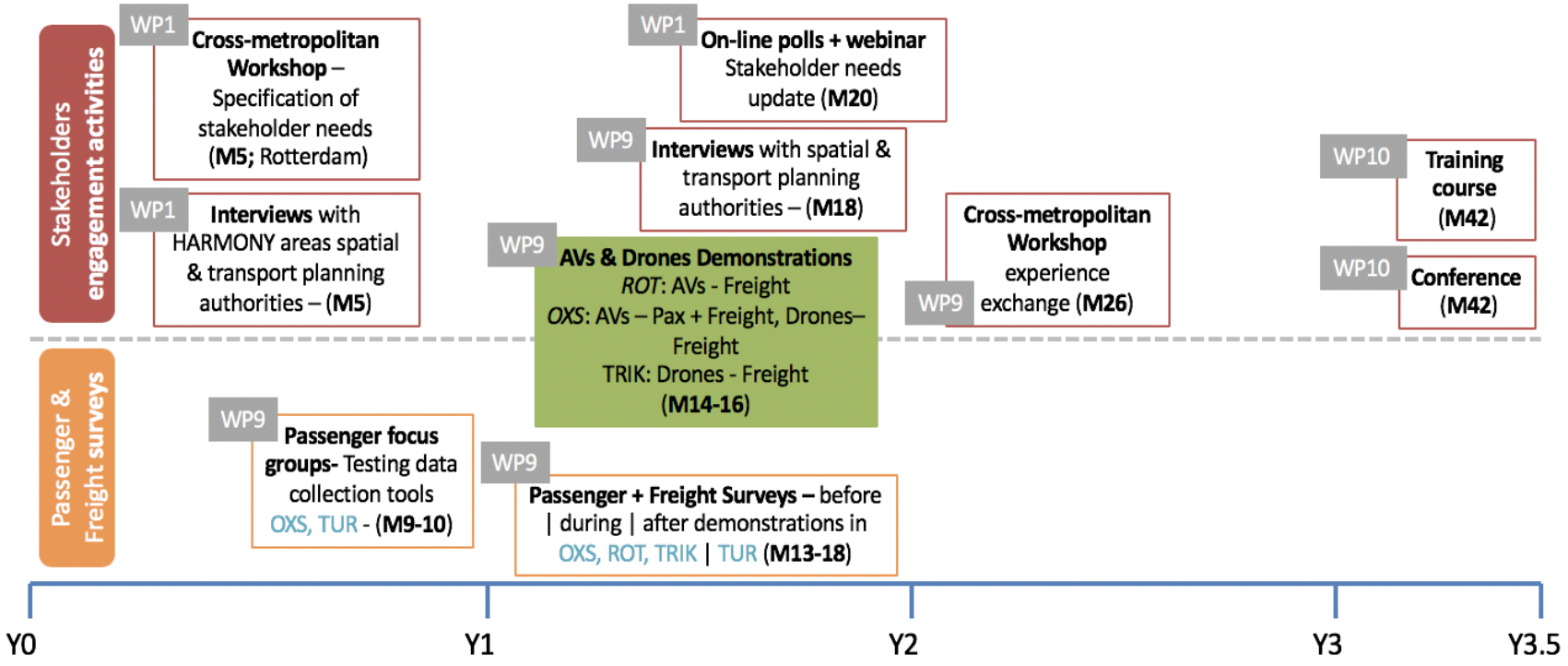
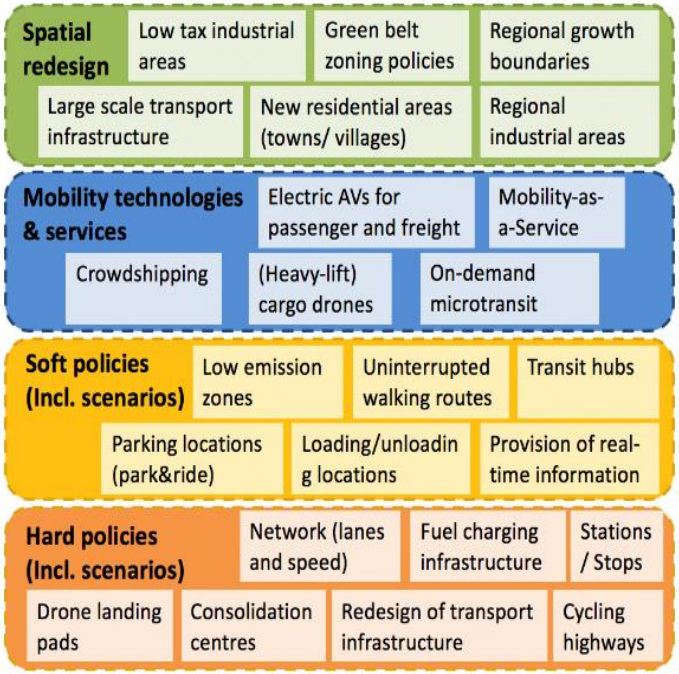
Part of: 2020 CiVITAS

THE CIVITAS INITIATIVE IS CO-FINANCED BY THE EUROPEAN UNION

Stakeholder engagement activities, demonstrations, and surveys plan

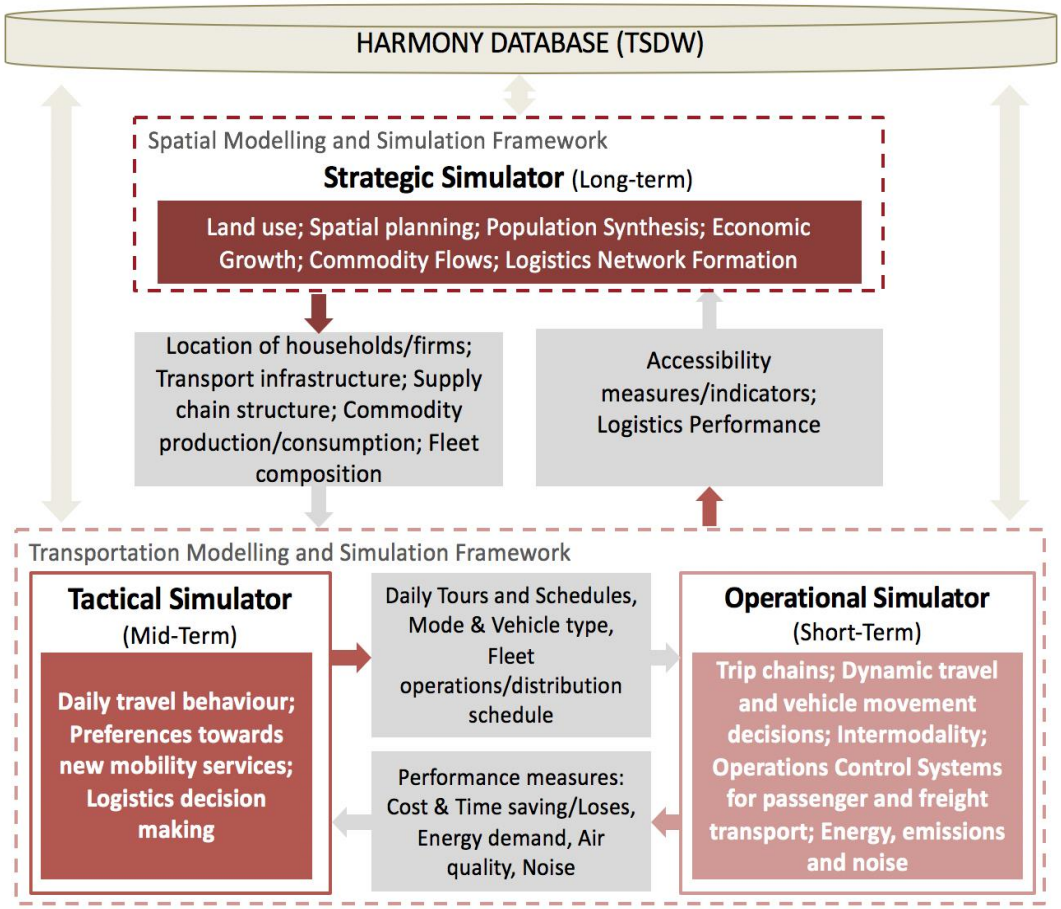


HARMONY Model Suite



Land-Use & Infrastructure	Environment	Regional Economy	Inclusive communities
Change in inter-/intraregional transport infrastructure capacity	Noise levels (e.g. Persons highly annoyed)	Change in population density	Transport affordability/poverty
Mode sharing infrastructure/ Public space	Carbon intensity (CO2, NOx emissions)	% change in number of VAT registered business	Transit accessibility / desserts
Increase of risk mitigation measures (resilience)	VMT per mode	Investments attracted in €	Measures of well-being

HARMONY Model Suite



HARMONY conceptual architecture