



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



- 01 • new **mobility** services, concepts and technologies for **people and freight**
- 02 • **co-creation** labs for people and freight
- 03 • Integration of **AVs and drones** integrating with traditional transport modes
• Collect **data** from citizens and freight operators
- 04 • Develop methodologies to combine and **integrate** multidisciplinary data related to new forms of mobility, collective transport and planning
- 05 • new spatial and transport **planning model suite** (MS)
- 06 • Apply the HARMONY MS to support metropolitan planners and **decision-makers**
- 07 • Link the HARMONY MS (metropolitan-level to **EU**-wide transport models
- 08 • **Recommendations** to update spatial and transport strategies and SUMPs
- 09 • **disseminate** the developed model suite



HARMONY conceptual architecture





HARMONY Metropolitan Areas' Activities

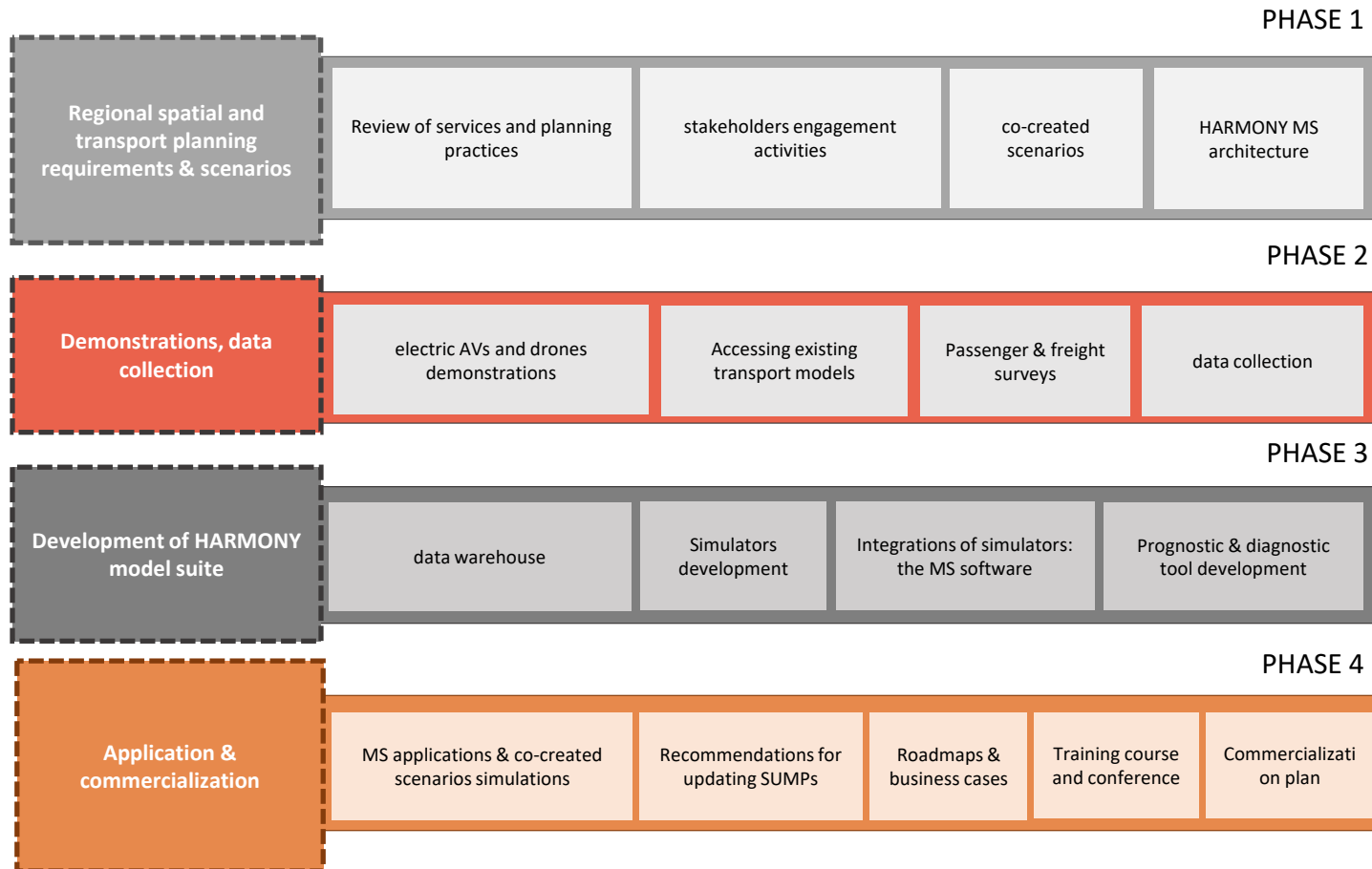


Rotterdam <ul style="list-style-type: none">• Electric AV demonstration - freight• HARMONY MS - Freight	Trailblazing
Oxfordshire <ul style="list-style-type: none">• Electric AV demonstration - Passenger & freight• Drones demonstration - Freight• HARMONY MS - Passenger	
Athens HARMONY MS - Freight	Aspiring
Turin HARMONY MS - Passenger	
Trikala HARMONY MS - Passenger	Follower
GZM HARMONY MS - Passenger	





HARMONY methodology





Main outcomes



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



Thank you
for your kind attention!

David Quesada

david.quesada@enide.com

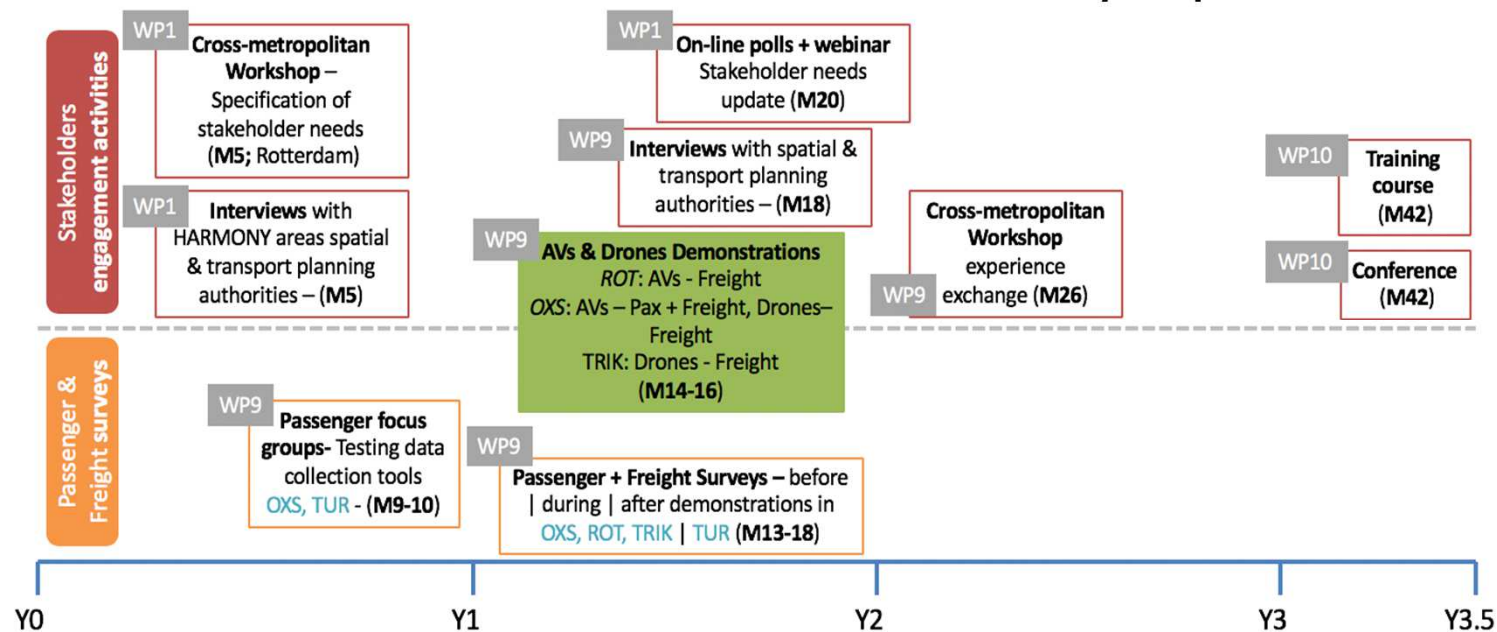


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 815269



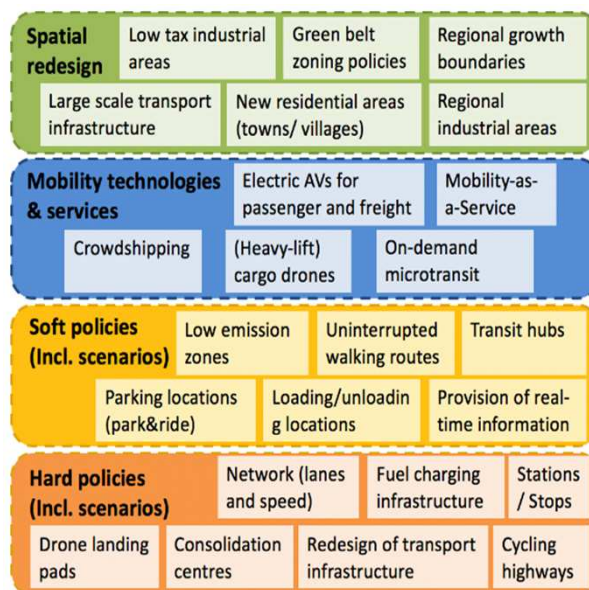


Stakeholder engagement activities, demonstrations, and surveys plan





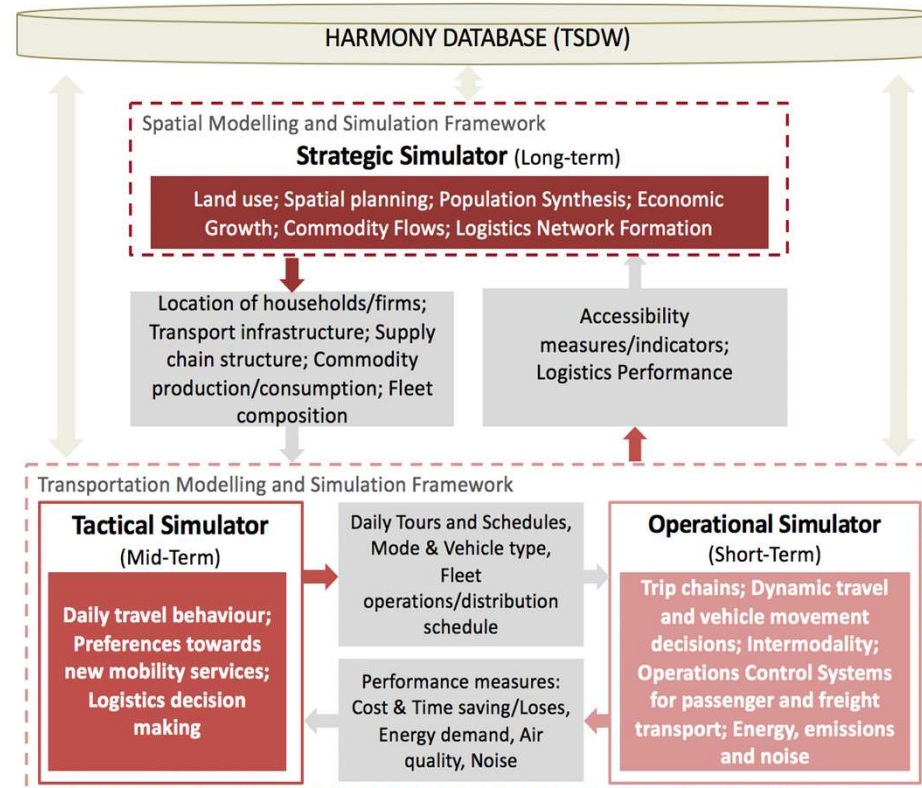
HARMONY Model Suite



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

