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Spatial & Transport Planning for a new Mobility Era

Francesc Rosinés









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Graz, 3rd October 2019

HARMONY

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



SPATIAL & TRANSPORT PLANNING FOR A NEW MOBILITY ERA



Vision

Develop a new generation of harmonised **spatial and multimodal transport planning tools** which comprehensively model the dynamics of the changing **transport sector and spatial organisation**, enabling metropolitan area authorities to lead the transition to a low carbon new mobility era in a sustainable manner



Objetives

01	 Identify new mobility services, concepts and technologies for people and freight
02	Establish co-creation labs for people and freight
03	 Demonstrate AVs and drones integrated 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
O5	 New spatial and transport planning Model Suite (MS). Software neutral platform.
O6	 Apply the HARMONY MS to support metropolitan planners and decision-makers
07	 Linkage of HARMONY MS (metropolitan-level) to EU-wide transport models
08	 Recommendations to update spatial and transport strategies and SUMPs

PHASE	1
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Regional spatial and transport planning requirements & scenarios	Review of services and planning practices	stakeholders enga activities	co-created scenarios		ŀ	IARMONY MS architecture		
·							PHASE 2	
Demonstrations, data collection	electric AVs and drones demonstrations	Accessing existing transport models		Passenger & freight surveys		da	ata collection	
PHA								
Development of HARMONY model suite	data warehouse	Simulators development	Inte simula sc	Integrations of simulators: the MS software			Prognostic & diagnostic tool development	
Application & commercialization	MS applications & co-created scenarios simulations	Recommendations for updating SUMPs	Roadr busine	naps & ss cases	Training c & confer	ourse ence	Commercializati on plan	





Harmony_H2020



Conceptual architecture





Recommendations for Updating Regional Spatial & Transport Strategies



A6: Dissemination & Exploitation











Main outcomes



Harmony Model Suite

A platform bringing together transport and spatial planning tools, people and freight activity-based models, network models and land-use models.



Training material and activities

Authorities and transport professionals will develop skills and knowledge to use the model suite tools.



Best practices for SUMPs The best practices for SUMPs will provide authorities with evidence-based recommendations to update their Sustainable Urban Mobility Plans, including autonomous vehicles and drones.









Metropolitan Areas' Activities

Harmony H2020



Harmonv-H2020

www.harmony-h2020.eu



Engagement activities and demonstrations plan



Factsheet

21 partners from 9 European countries



Budget: 7,649,645.25 Euro

Duration: 06/2019 – 11/2022











HARMONY

Thank you!

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