

PROJECT

## HARMONY

### **Title: 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**

**Funding:** European (Horizon 2020)

**Duration:** Jun 2019 - Nov 2022

**Status:** Ongoing

**Total project cost:** €7,649,645

**EU contribution:** €7,430,895



[CORDIS RCN : 223194](#)

#### **Objectives:**

HARMONY envisages developing 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.

Co-creation labs are established in order for citizens, authorities and industry to design together new mobility and spatial organisation concepts. At the same time, demonstrations with electric AVs, and drones take place to understand in real-life their requirements. Market surveys are organised to elicit people and freight actors' preferences and reactions towards the co-created concepts and the demonstrated new mobility technologies.

The HARMONY model suite is designed to assess the multidimensional impacts of the new mobility concepts and technologies. The model suite integrates:

1. land-use models (strategic/long-term),
2. people and freight activity-based models (tactical/mid-term), and
3. multimodal network (operational/short-term) models allowing for vertical planning.

This integrated approach is necessary for authorities to understand if policies are sustainable, while also contribute to meeting COP22 targets, social equality and wellbeing. The HARMONY model suite is also linked to an EU-wide model to further identify the impact of the concepts and technologies on the TEN-T level.

HARMONY's concepts and the model suite are applied and validated on six EU metropolitan areas on six TEN-T corridors:

1. Rotterdam (NL),
2. Oxfordshire (UK),
3. Turin (IT),
4. Athens (GR),
5. Trikala (GR),
6. Upper Silesian-Zaglebie Metropolis (PL).

By having six different areas as pilots, we will be able to propose to authorities, spatial and transport planners, concepts and technologies for different types of areas/cities.

#### **Parent Programmes:**

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

**Institute type:** Public institution

**Institute name:** European Commission

**Funding type:** Public (EU)

**Other programmes:** LC-MG-1-2-2018 Sustainable multi-modal inter-urban transport, regional mobility and spatial planning.

**Lead Organisation:**

**University College London**

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**EU Contribution:** €1,542,671

**Partner Organisations:**

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**EU Contribution:** €68,750

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**Technologies:**

Information systems  
Sustainable urban mobility planning

**STRIA Roadmaps:** Smart mobility and services

**Transport mode:** Multimodal transport

**Transport sectors:** Passenger transport, Freight transport

**Transport policies:** Deployment planning/Financing/Market roll-out

**Geo-spatial type:** Other