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The SUMP's Topic Guide (TG)

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Consortium: 20 members from 12 countries    Project Coordinator: UCL    Project duration: June 2019 (M1) – March 2023 (M45)

Enable metropolitan area authorities to lead the transition to low-carbon mobility through new spatial and transport planning tools.

## 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 SUMP

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



### MobyX: Data Collection Tools

A free smartphone application, MobyApp, was developed for Android and iOS. A **travel diary is composed of real data, collected through the smartphone's GPS**.

# Harmony consortium

20 partners from 9 European countries



Budget: 7,649,645.25 Euro - Duration: 06/2019 – 03/2023



[www.harmony-h2020.eu](http://www.harmony-h2020.eu)



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HARMONY

# HARMONY's AV and Drones demonstrations



- **Oxfordshire County (UK):**
  - AV + drones for freight
- **Rotterdam (NL):**
  - AV for good delivery
- **Trikala (GR):**
  - UAV for pharmaceutical purposes



One of the main project outcomes is designing the best practices for SUMP



- **Policy recommendations for new mobility technologies:** the best practices for SUMP will provide authorities with **evidence-based policy recommendations** to update their Sustainable Urban Mobility Plans, regarding the integration of new mobility technologies (e.g., drones, AVs) and services in urban mobility planning
- **Recommendations for a new generation of SUMP and long-term regional planning process:**
  - ✓ **The SUMP Topic Guide (TG)** is aimed at providing local planning authorities guidance on transport modelling applications in their Sustainable Urban Mobility Plan (SUMP) implementation process.
  - ✓ **SUMP Transport modelling guidelines:**
    - Focus on providing local planning authorities guidance on transport modelling applications in their SUMP implementation process
    - The project achievements related to the development of the Harmony MS and its application to case studies in Rotterdam (NL), Oxfordshire (UK), Turin (IT), and Athens (GR) are framed in a wider context of available tools, applications and best practices



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➤ Recommendations for a new generation of SUMP and long-term regional planning process:

✓ The SUMP Topic Guide (TG):

- **Challenge:** A clear, concise and up-to-date guidance document on modelling tools for the urban mobility planner's community is still missing. On the other side, the relevance of models in urban transport planning is increasing, for instance whenever there is the need to properly estimate impacts and indicators (see GHG emissions) which are relevant in the context of decarbonisation and climate neutrality. Also, new mobility solutions (see MaaSride-hailing, CCAM, UAM etc.) are emerging extremely fast, and new tools and methodologies are needed to assess their impacts on the urban environment.
- **Aim:** SUMP TG is aimed at providing local planning authorities guidance on transport modelling applications in their Sustainable Urban Mobility Plan (SUMP) implementation process.
  - A transport model can be used to generate reliable and consistent input to the SUMP process, specifically in certain planning stages such as scenario development, measure appraisal and selection, and monitoring.
  - Modelling results help to predict the impact of different combinations of policies and measures, taking into account the complex interactions and potential reinforcing or rebound effects, thereby helping to define the most effective integrated packages.
  - Beyond their use to define the baseline scenario, they also enable regular monitoring of changes in the transport system during the implementation phase to assess whether you are on track or if you need to react and adapt your actions.

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➤ **Recommendations for a new generation of SUMP and long-term regional planning process:**

✓ **The SUMP Topic Guide (TG):**

- **Rationale behind:** it is an answer to the questions that have been raised in the past:
  - Do I need a transport model in my SUMP? Why?
  - What kind of questions can be answered via a transport model?
  - How can modelling tools benefit the preparation, strategy development, measure planning and monitoring of SUMP?
  - Which is the most appropriate tool to meet my needs?
  - What are the challenges and the limits of a modelling application?
  - What are the roles, responsibilities and competencies of decision-makers, urban planners and modellers?
- **The primary target audience** for this Topic Guide are public authority planners and practitioners from various levels of government (from local/city level to regional, national and European), with a broad variation in their level of expertise in relation to mobility and planning.

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➤ Recommendations for a new generation of SUMP and long-term regional planning process:

✓ The SUMP's Topic Guide (TG):

▪ **Link to the Harmony H2020 project:**

- The Topic Guide is drafted by the Harmony project ([www.harmony-h2020.eu](http://www.harmony-h2020.eu)), within the WP8 (Process assessment, SUMP's recommendations and roadmaps) activities, and it is linked to project deliverable D8.3 (Extended SUMP guidelines for metropolitan areas in the new mobility era).
- The project achievements related to the development of the Harmony Model Suite and its application to case studies in Rotterdam (NL), Oxfordshire (UK), Turin (IT), and Athens (GR) will be framed in a wider context of available tools, applications and best practices.

- The concept of HARMONY is to assist metropolitan areas by providing a state-of-the-art model suite that quantifies the multidimensional impact of various concepts, soft and hard policies on citizens' quality of life, sustainability, economic growth while identifying the most appropriate solutions and recommending ways to exploit advances in mobility concepts to achieve their goals. **HARMONY's concepts will be applied in six EU metropolitan areas on six TEN-T corridors: Rotterdam (NL), Oxfordshire (UK), Turin (IT), Athens (GR), Trikala (GR), Upper Silesian-Zaglebie Metropolis (PL).**



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▪ **Timing and work plan:**

- The drafting process started in May 2022, after the SUMP Platform Coordinating Group meeting (25-26 April 2022).
- The final TG is expected to be delivered at end of 2022 (December).

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