

New Mobility Data and Solutions



nuMIDAS, New Mobility Data and Solutions Toolkit, started at the beginning of 2021 under the Horizon 2020 programme and its is being developed by a European Consortium, composed of 9 partners from 6 countries: Belgium, Czech Republic, Greece, Italy, The Netherlands, and Spain.

nuMIDAS will:

- Recognise new and emerging mobility trends.
- Identify relevant new concepts and variables playing an increasingly important role in transport and mobility analyses.
- Review and assess a range of options for collecting and using new mobility data, by means of new data collection and management approaches, including new methods and tools to exploit these data, encompassing also Artificial Intelligence / Machine Learning techniques for dealing with Big Data.

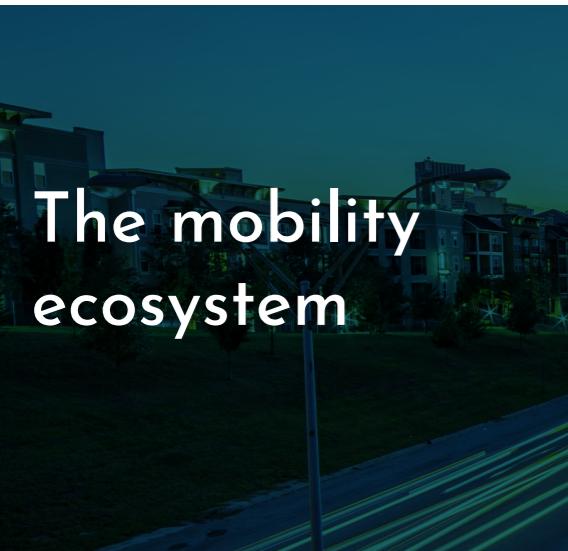
nuMIDAS Partners

- [nuMIDAS EU Project](#)
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The mobility ecosystem

The mobility ecosystem is rapidly evolving, whereby we see the rise of new stakeholders and services (connected and automated vehicles, MaaS, shared mobility). As these new forms of mobility offerings start to appear within cities, so do new ways in which data are being generated, collected, and stored.

Successfully integrating disruptive technologies and solutions with the designs of policy makers remains a challenge at current. Let alone being able to analyse, monitor and assess mobility solutions and their potential socio-economic impacts.

nuMIDAS bridges this (knowledge) gap, by providing insights into what methodological tools, databases, and models are required, and how existing ones need to be adapted or augmented with new data.

A wider applicability of the project's results across the whole EU is guaranteed as all the research is validated within a selection of case studies in pilot cities, with varying characteristics, thereby giving more credibility to these results. Through an iterative approach, nuMIDAS creates a tangible and readily available toolkit that can be deployed elsewhere, including a set of transferability guidelines, thus thereby contributing to the further adoption and exploitation of the project's results.

Objectives

RECOGNISE

nuMIDAS will recognise the various new and emerging mobility trends, and will provide the relevant conceptual, methodological, and technical needs to analyse, monitor, and assess these.

IDENTIFICATION

The identification of major new concepts and variables, given their increasingly important role in transport and mobility analyses, as well as deriving methods that can estimate and quantify them.

DEVISE

Devise advanced methods and tools for the monitoring, assessment, and analysis of mobility solutions.

REVIEW & ASSESS

Review and assess a range of options for collecting and using new data, by means of new data collection and management approaches, including new methods and tools to exploit this data (encompassing also Artificial Intelligence / Machine Learning techniques for dealing with Big Data), taking into account different type of variables such as gender, age, ethnicity, ... where relevant.

GAINING & UNDERSTANDING

Gaining an understanding on how conventional concepts and variables (e.g., efficiency, reliability, safety, comfort, and security) change in light of new mobility concepts, as well as with new societal and industrial structures for which the future transport network will provide services.

Use Cases



A critical expectation for this project is to be able to draw conclusions and formulate recommendations that are relevant across the whole EU, and not just for selected locations. To this end, this project builds on a distributed selection of case studies in pilot cities to provide a geographic coverage of the EU, with each pilot city an active partner in the consortium as well as being accompanied by a local core partner:

Barcelona

The city of Barcelona (AMB INFORMACIO) in Spain, supported by FACTUAL.

Milan

The municipality of Milan (AMAT) in Italy, supported by POLIEDRA.

Leuven

The city of Leuven (LEUVEN) in Belgium, supported by TML.