

PROJECT

MOMENTUM

Modelling Emerging Transport Solutions for Urban Mobility

Funding: European (Horizon 2020)

Duration: May 2019 - Apr 2022

Status: Ongoing

Total project cost: €2,928,125

EU contribution: €2,927,875



[CORDIS RCN : 221856](#)

Objectives:

Disruptive technologies, such as MaaS and CAVs, are bringing radical changes in urban mobility. The goal of MOMENTUM is to develop a set of new data analysis methods, transport models and planning support tools able to capture the impact of new transport options on urban mobility, in order to support cities in the task of designing the right policy mix to exploit the full potential of emerging mobility solutions. The specific objectives of the project are:

1. Identify a set of plausible future scenarios for the next decade to be taken into account for mobility planning in European cities, considering the introduction of disruptive technologies such as CAVs.
2. Characterise emerging activity-travel patterns, by profiting from the increasing availability of high-resolution spatio-temporal data collected from personal mobile devices and digital sensors.
3. Develop data-driven predictive models of the adoption and use of new mobility concepts and transport solutions, in particular MaaS and shared mobility, and their interaction with public transport.
4. Provide transport simulation and planning support tools able to cope with the new challenges faced by transport planning, by enhancing existing state-of-the-art tools with the new data analysis methods and travel demand models developed by the project.
5. Demonstrate the potential of the newly developed methods and tools by testing the impact of a variety of policies and innovative transport services in different European cities with heterogeneous sizes and characteristics, namely Madrid, Thessaloniki, Leuven, and Regensburg, and evaluating the contribution of the proposed measures to the strategic policy goals of each city.
6. Provide guidelines for the practical use of the methods, tools and lessons learnt delivered by the project in the elaboration and implementation of SUMP and other planning instruments.

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-1-3-2018 Harnessing and understanding the impacts of changes in urban mobility on policy making by city-led innovation for sustainable urban mobility

Lead Organisation:

Empresa Municipal De Transportes De Madrid S.a.

Address:

Cerro de la Plata 3
28007 Madrid
Spain

Organisation Website:

<http://www.emtmadrid.es>

EU Contribution: €376,750

Partner Organisations:

Transport & Mobility Leuven

Address:

Tervuursevest 54 bus 4
3010 LEUVEN
Belgium

Organisation Website:

<http://www.tmleuven.be>

EU Contribution: €317,625

Ethniko Kentro Erevnas Kai Technologikis Anaptyxis

Address:

Charilaou Thermi Road
57001 Thermi Thessaloniki
Greece

Organisation Website:

<http://www.certh.gr>

EU Contribution: €225,625

Aimsun SL

Address:

RONDA UNIVERSITAT 22 ESC B PLANTA AT
08007 BARCELONA
Spain

EU Contribution: €221,625

Technische Universitaet Muenchen

Address:

Arcisstrasse 21
80333 MUENCHEN
Germany

Organisation Website:

<http://www.tu-muenchen.de>

EU Contribution: €318,375

Stadt Regensburg

Address:

RATHAUSPLATZ 1 ALTES RATHAUS
93047 REGENSBURG
Germany

Organisation Website:

<http://www.regensburg.de>

EU Contribution: €223,500

Polis - Promotion Of Operational Links With Integrated Services, Association Internationale

Address:

rue du Trône 98
1050 BRUXELLES
Belgium

Organisation Website:

<http://www.polis-online.org>

EU Contribution: €263,000

Dimos Thessalonikis**Address:**

VASILEOS GEORGIOU 1A
54640 THESSALONIKI
Greece

EU Contribution: €85,625

Nommon Solutions And Technologies SI**Address:**

CALLE CLAUDIO COELLO 124 - PLANTA 4A TRASERA
28006 MADRID
Spain

EU Contribution: €356,250

Union Internationale Des Transport Publics**Address:**

Rue Ste. Marie 6
1080 BRUXELLES
Belgium

Organisation Website:

<http://www.uitp.org>

EU Contribution: €140,500

Universidad De La Iglesia De Deusto**Address:**

Avda. de las Universidades 24
48007 Bilbao
Spain

Organisation Website:

<http://www.deusto.es>

EU Contribution: €204,000

Stad Leuven**Address:**

PROFESSOR VAN OVERSTRAETENPLEIN 1
3000 LEUVEN
Belgium

EU Contribution: €195,000

Technologies:

Connected and automated vehicles
Modelling and design of cooperative car systems

Development phase: Demonstration/prototyping/Pilot Production

STRIA Roadmaps: Cooperative, connected and automated transport, Smart mobility and services

Transport mode: Multimodal transport

Transport sectors: Passenger transport
Societal/Economic issues,

Transport policies: Digitalisation

Geo-spatial type: Urban