

MOMENTUM

Mobilising Mobility

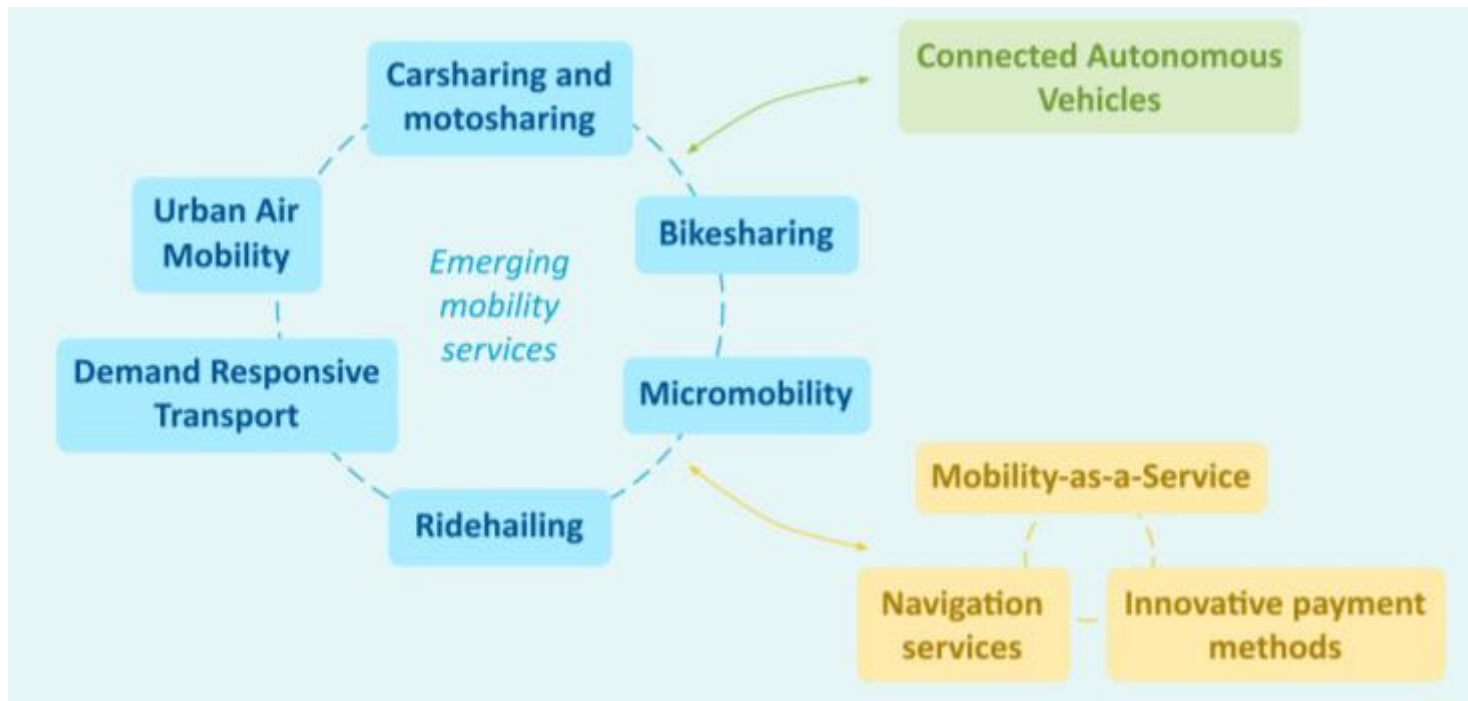
How to manage uncertainty when dealing with the future of mobility?

12 November 2020



Motivation

New mobility technologies, services and solutions



Project objectives

1. Identify a set of plausible **future scenarios** for the next decade to be taken into account for mobility planning in European cities.
2. Characterise **changes in travel behaviour** with special focus on emerging mobility solutions, profiting from the increasing availability of high-resolution data.
3. Develop **data-driven models** of the adoption and use of new mobility concepts and transport solutions and their interaction and complementarity with PT.
4. Develop **transport simulation and planning support tools** able to cope with the new challenges faced by transport planners.
5. 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.

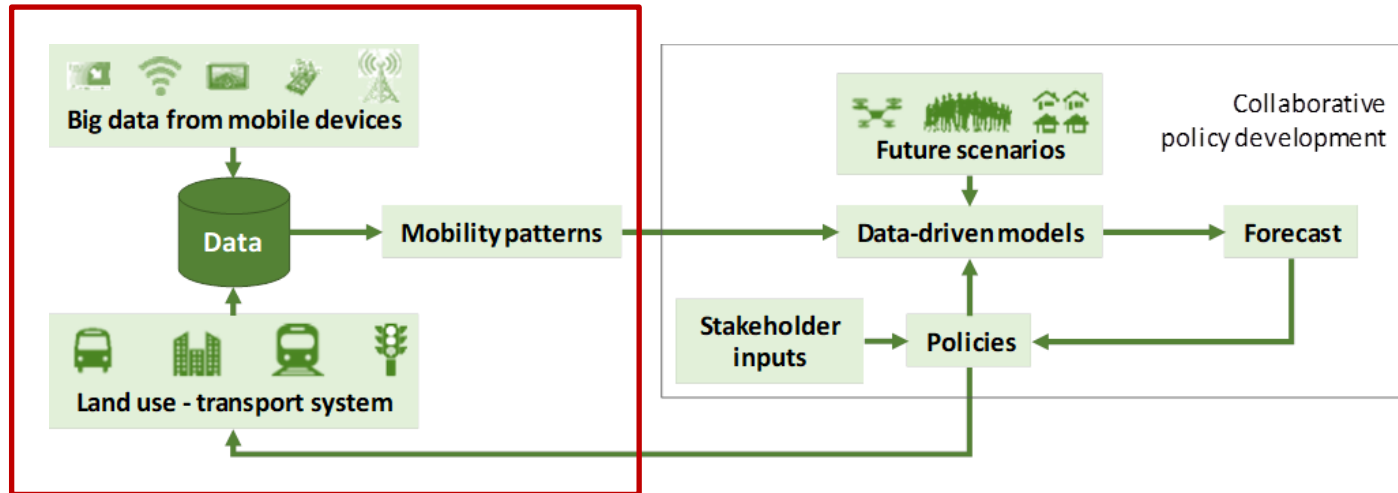
Leuven

Madrid

Regensburg

Thessaloniki

Key outputs and progress



1. Future scenarios + relevant policy questions

More information: [D2.1 Challenges and opportunities for transport planning and modelling](#)

2. Data collection and analysis methods

More information: [D3.1 Data Inventory and Data Quality Assessment](#)

[D3.3 Data Analytics](#) --> to be delivered in the next weeks

3. Modelling algorithms

Work in progress since April 2020

4. Decision support tools

5. Guidelines for policy making

Key outputs and progress

- MOMENTUM has identified a number of **major challenges for transport planning tools and techniques** related to the emergence of new mobility services
 - Workshops with policy makers and transport modellers
 - A Delphi poll engaging 16 experts in transport planning and management

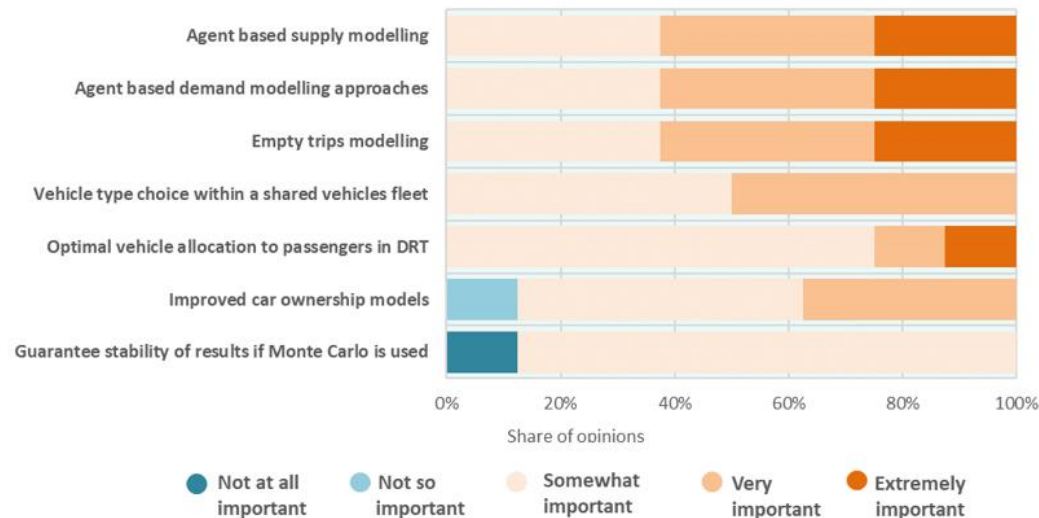
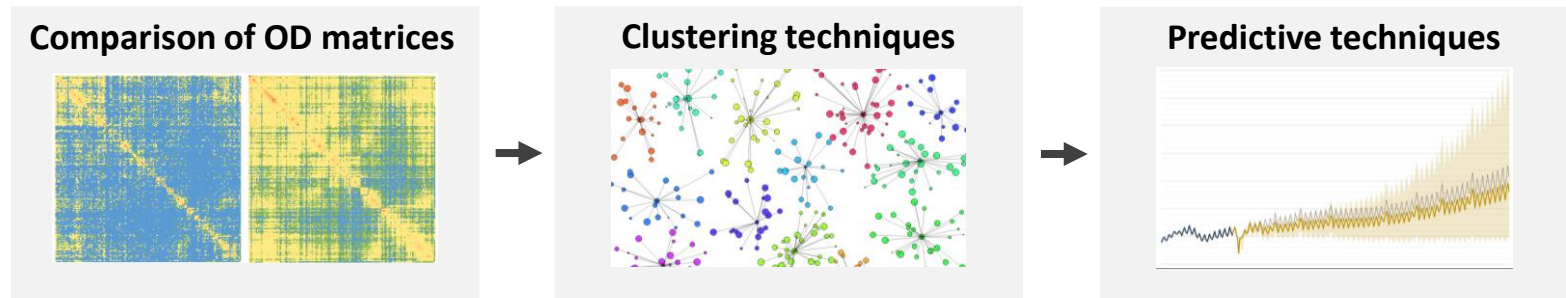


Figure 20 – Importance of transport modelling gaps for modelling new mobility options

Key outputs and progress

- MOMENTUM develops techniques for the **analysis of longitudinal mobility data**



- MOMENTUM analyses the available data from **emerging mobility services**

Shared mobility adoption

- Users profiling
- Impact of car ownership

Shared mobility use

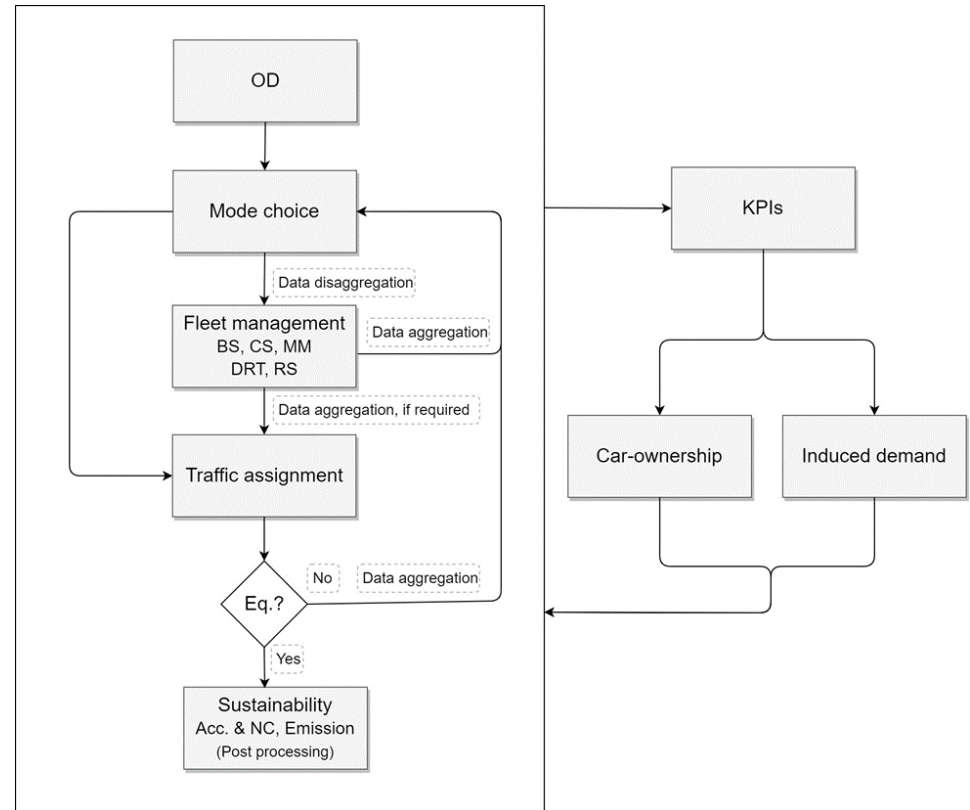
- Use frequency
- Multimodality and complementarity with PT
- Impact of weather
- Impact of supply reliability

DRT use

- Taxi demand as a proxy of DRT demand
- Impact of weather
- Service indicators for DRT systems

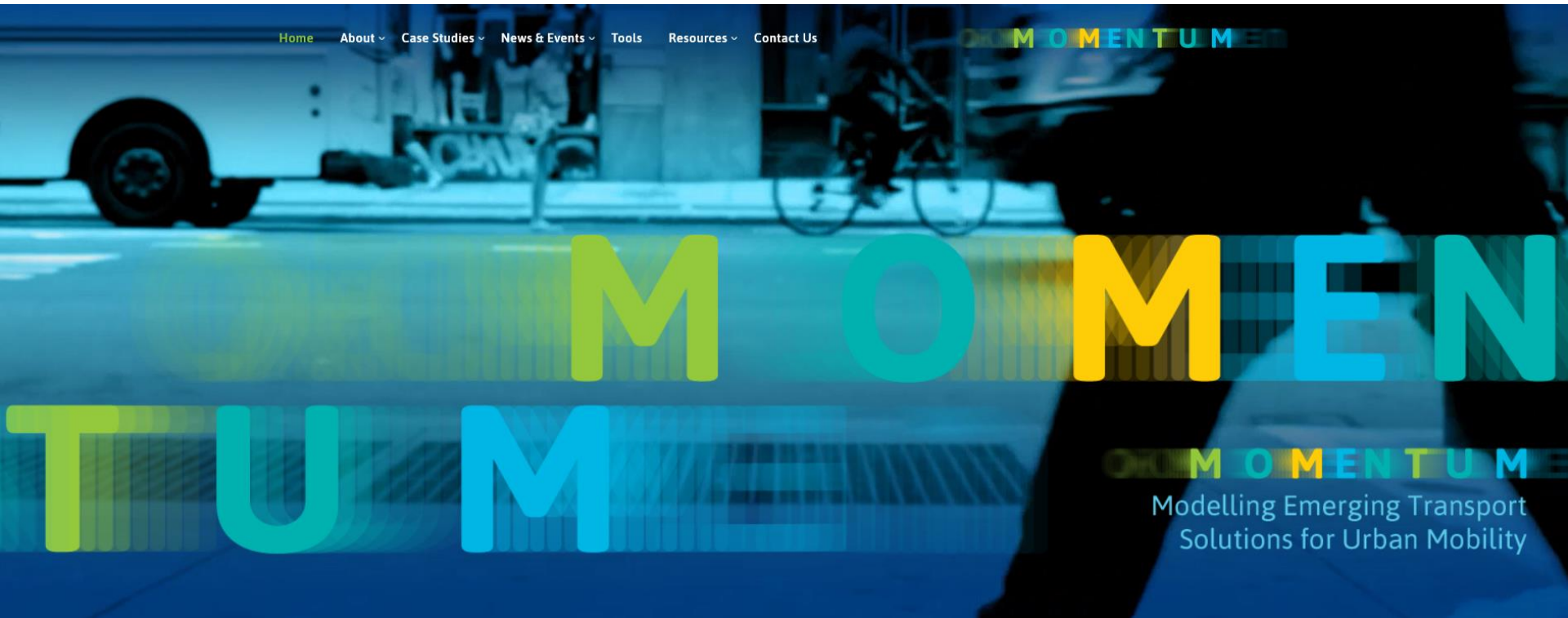
Key outputs and progress

- MOMENTUM takes advantage of the increasing data availability :
 - to include artificial intelligence models that **exploit historical data** from emerging mobility services
 - to develop more **disaggregated approaches** to transport simulation that are suitable to emerging mobility services



Stay tuned for incoming results!

THANKS!



<https://h2020-momentum.eu/>



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 815069