



The role of airports in TEN-T urban nodes

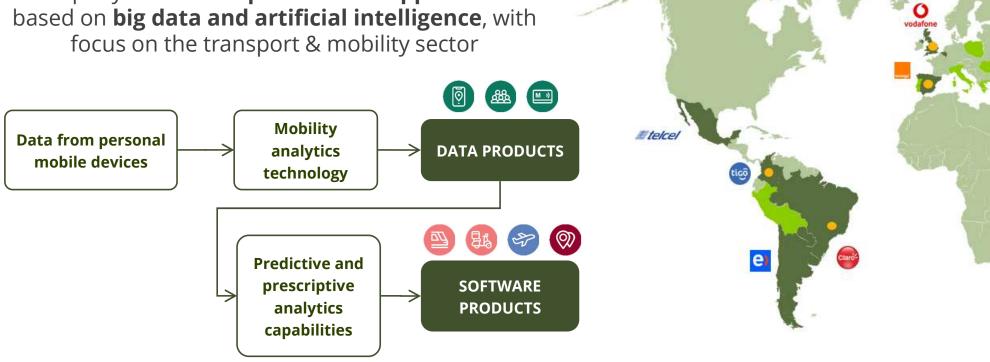
Air-rail integration and novel airport access options

Javier Burrieza Galán

Nommon

Nommon?

Nommon is a research-intensive technology company that develops decision support tools



Permanent offices

Agreements with MNOs in place

Agreements under negotiation

Airports and TEN-T nodes

- Sources of connectivity and of environmental impact
- Air-rail multimodality: not only a matter of infrastructure, but of <u>synchronisation</u> + <u>policy and regulations</u>
- Surface access: ongoing efforts... but what about mobility innovations?





Two projects





MultiModX Integrated Passenger-Centric Planning of Multimodal Transport Networks

- A multimodal evaluation framework that enables a comprehensive analysis of the impact of multimodal transport solutions for a range of stakeholders
- Focus on air-rail complementarity (strategic + tactical)

2023-2025













MAIA Multimodal Access for Intelligent Airports

- A set of data analytics and modelling tools to support the evidence-based design and implementation of multimodal airport access solutions based on CCAM and UAM
- Focus on catchment area: Brussels & Madrid case studies

2023-2025













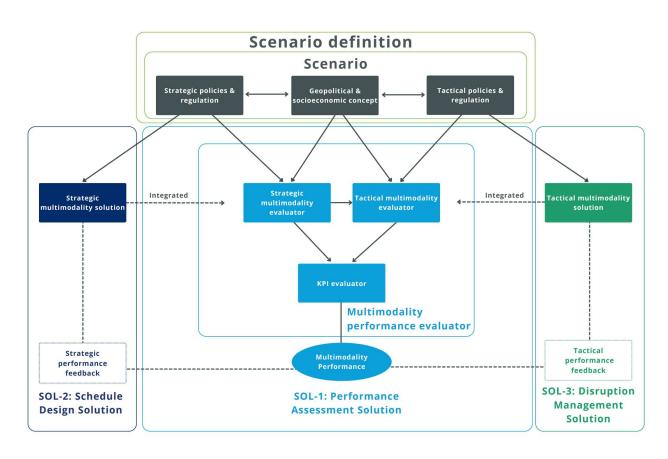
Multimodal Transport Networks





Three solutions

- Performance Assessment <u>Framework</u>
- Schedule Design: strategic air-rail synchronisation
- **Disruption Management:** enhancing resilience through multimodal coordination



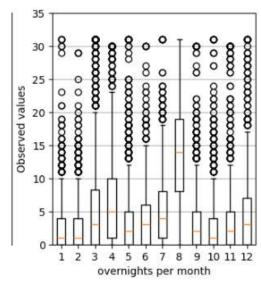
Multimodal Transport Networks Integrated Passenger-Centric Planning of Multimodal Transport Networks





Ongoing work

- **Scenarios** for long-distance travel demand and policy intervention
- **Regional archetypes**: a classification of European regions according to their demand and supply conditions for multimodal strategies
- Passenger archetypes: combined qualitative-quantitative profiling of long-distance travel demand in Europe



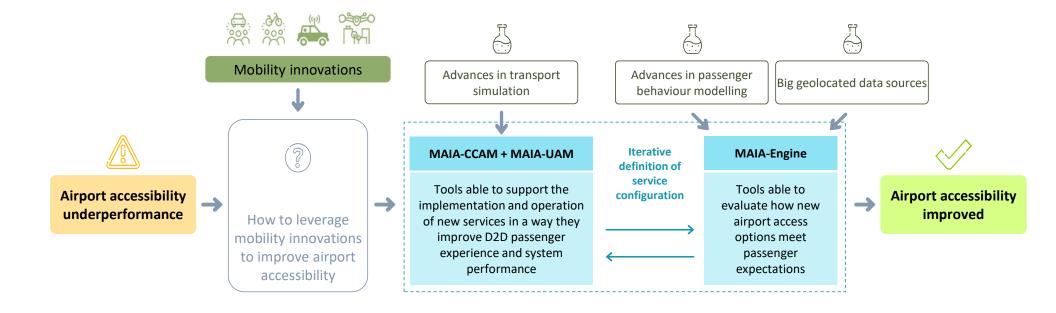
Evolving SESAR MODUS archetypes

Business flyer	Digital Gen Z Flyer	Environment- minded Flyer	Premium Flyer	Cultural Jetsetter	Holidayer	Golden Senior Flyer
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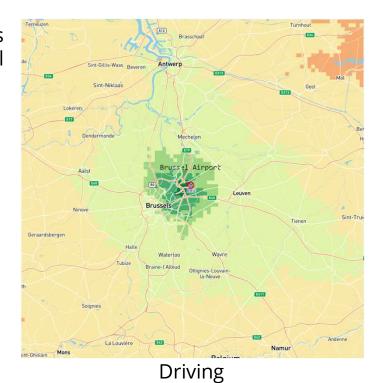


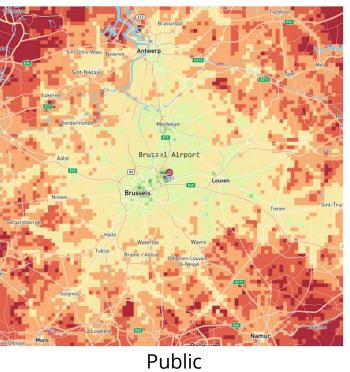




First steps: accessibility gaps in catchment areas

Brussels National







Key takeaways

- Cities and regions make continuous efforts to better integrate airports in the TEN-T networks, but there is still a lot to do
- Airport access should keep up with mobility innovations
- Multimodality is already happening in some places let's look at them
- Synchronisation can make the most from existing infrastructure
- Data fusion is key to understanding passenger needs
- MAIA + MultiModX: opportunities to enhance airport integration in urban nodes





Thank you for your attention!

Do you want to learn more?

Join us next Monday for the 1st MAIA Stakeholder Workshop



Help us define **airport access challenges** and the role of mobility innovations in solving them:
Can **CCAM** & **UAVs** help? HOW?







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