



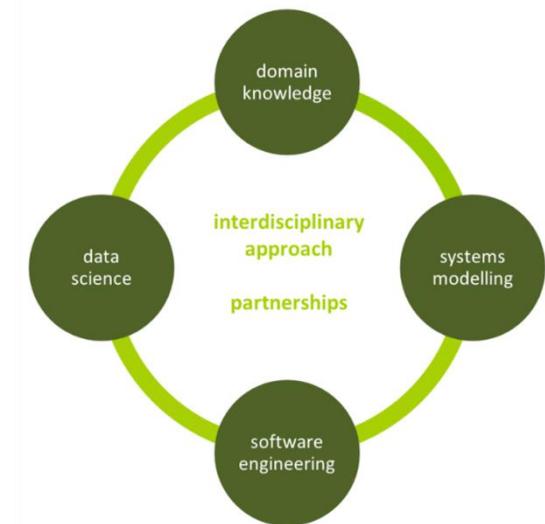
Intermodality: future projects

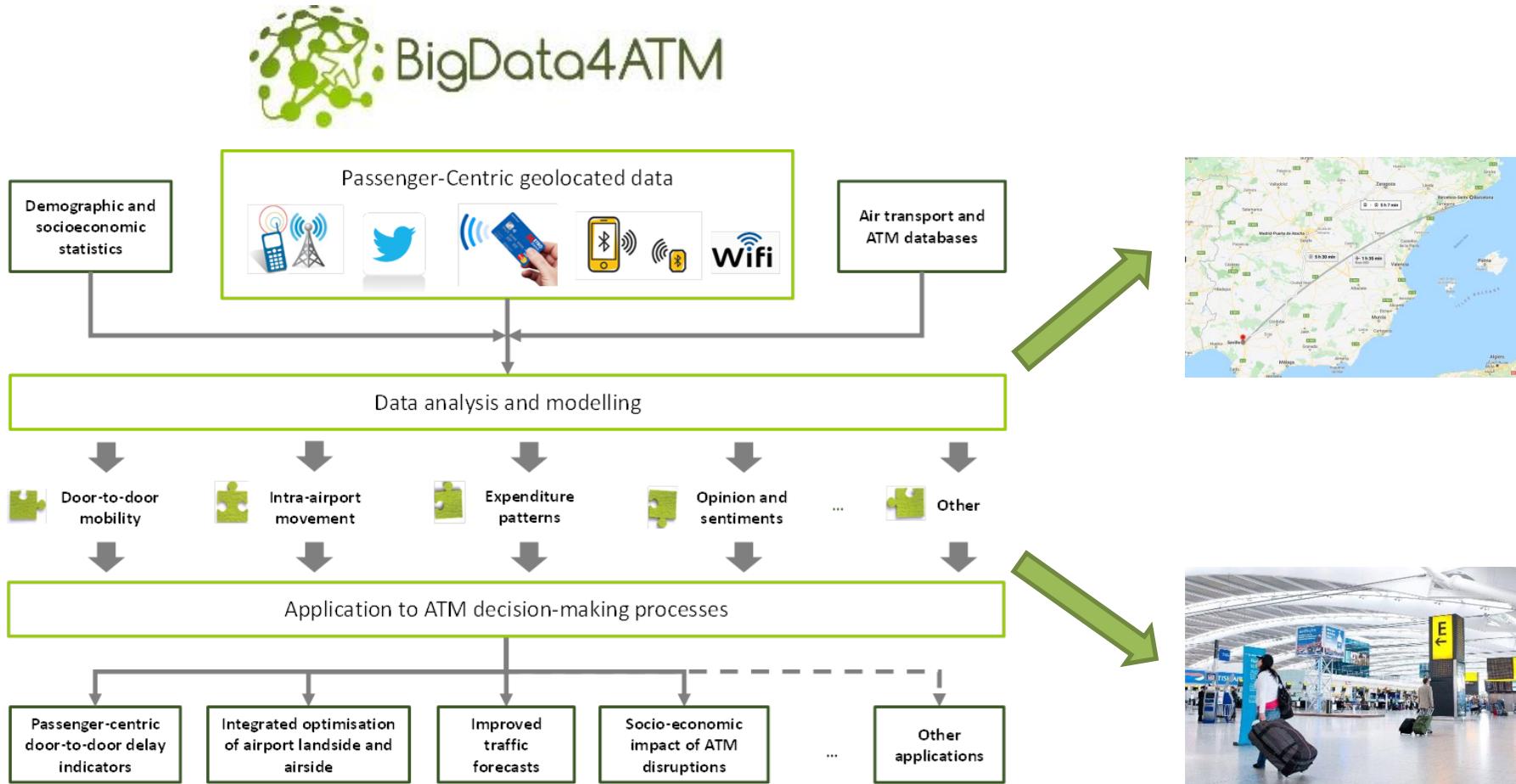
Nommon Solutions & Technologies

Pedro García-Albertos

20 February 2020

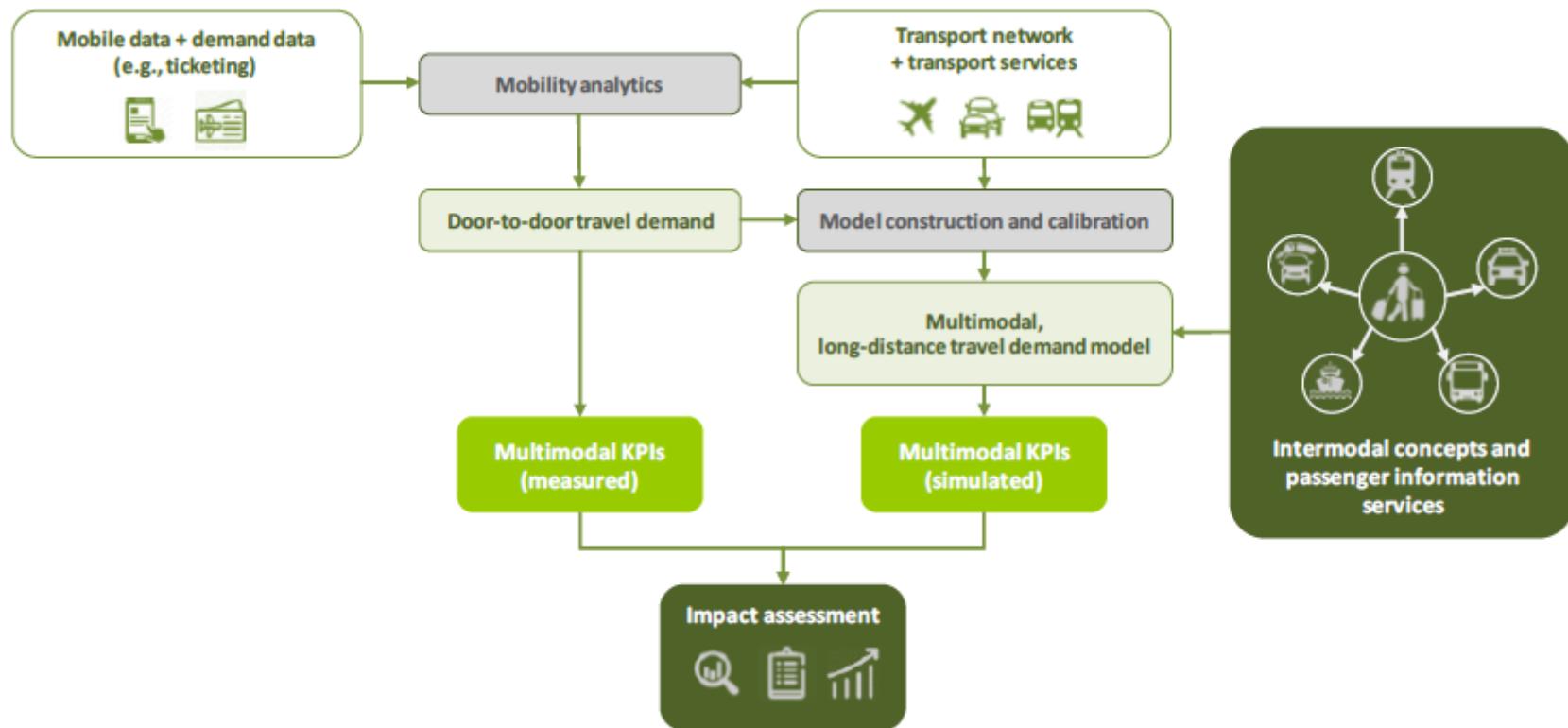
- Technology company based in Madrid
- Mission: assist our clients in decision-making by providing them with best-in-class information, quantitative analysis and decision support products and services, so that they can assess the impact of alternative strategies and management actions under a range of possible futures
- Research-intensive organisation: 6 projects in SESAR ER4
- 4 Business Units:
 - Transport & Mobility
 - Aviation
 - Kineo Mobility Analytics
 - New businesses





The goal of TRANSIT is to develop a set of multimodal key performance indicators (KPIs), mobility data analysis methods and transport simulation tools allowing the **evaluation of the impact of innovative intermodal transport solutions** on the quality, efficiency and resilience of the door-to-door passenger journey.

1. Propose **innovative intermodal transport solutions** based on information sharing and coordinated decision-making between air transport and other transport modes.
2. Develop **multimodal KPIs** to evaluate the quality and efficiency of the door-to-door passenger journey.
3. Investigate **new methods and algorithms for mobility data collection, fusion and analysis** allowing a detailed reconstruction of the different stages of long-distance multimodal trips and the measurement of the new multimodal KPIs.
4. Develop a **modelling and simulation framework for the analysis of long-distance travel behaviour** that allows a comprehensive assessment of intermodal solutions in terms of the proposed multimodal KPIs.
5. Assess the **expected impact of the proposed intermodal concepts** and derive **guidelines and recommendations** for their practical development and implementation.



The goal of IMHOTEP is to develop a concept of operations and a set of data analysis methods, predictive models and decision support tools that allow information sharing, common situational awareness and **real-time collaborative decision-making between airports and ground transport stakeholders.**

1. Propose a concept of operations for the extension of airport collaborative decision-making to ground transport stakeholders, including local transport authorities, traffic agencies, transport operators and mobility service providers.
2. Develop new data collection, analysis and fusion methods able to provide a comprehensive view of the door-to-door passenger trajectory through the coherent integration of different types of high-resolution passenger movement data collected from personal mobile devices and digital sensors.
3. Develop predictive models and decision support tools able to anticipate the evolution of an airport's passenger flows within the day of operations with the aim of enabling real-time collaborative decision-making between airports and ground transport stakeholders
4. Validate the proposed concept and the newly developed methods and tools through a set of case studies conducted in direct collaboration with airports, local transport authorities and transport operators



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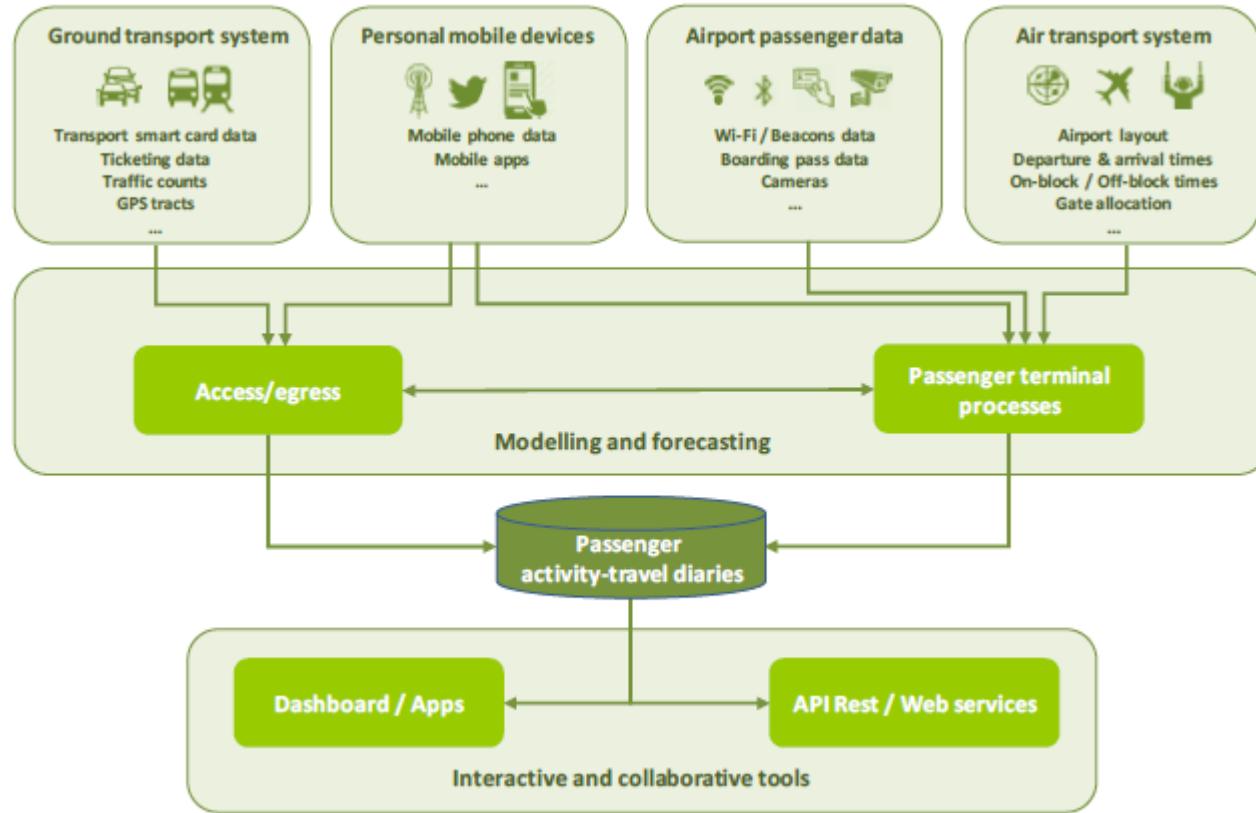
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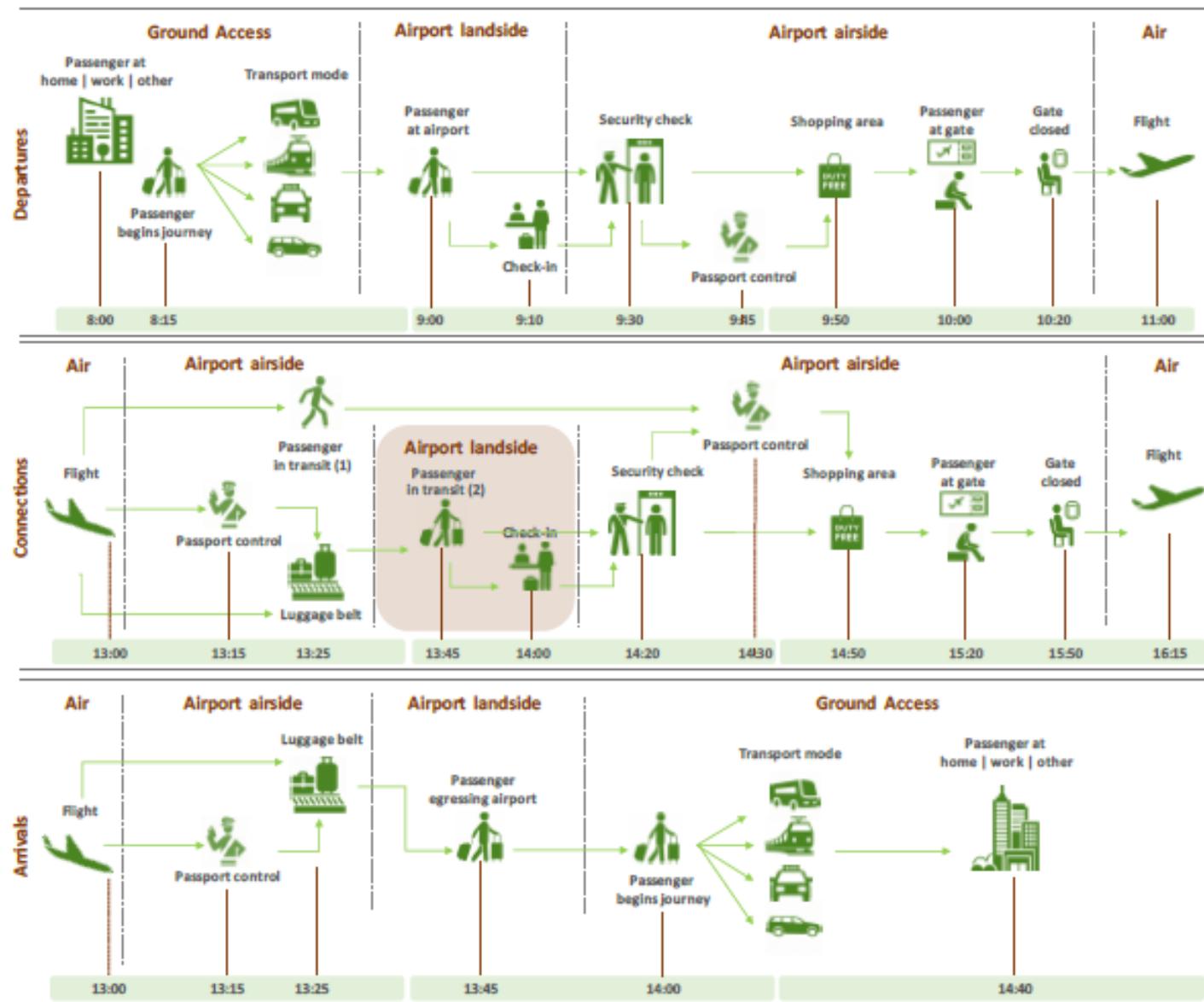


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