CAMERA

Coordination and support Action for Mobility in Europe: Research and Assessment

Exploring the Main Mobility Research Gaps in Europe - organised by H2020 project CAMERA

Agency Research Team (ART) workshop on passenger-centred mobility - Day 4

CAMERA Consortium

17 June 2021, online

Welcome!

What is CAMERA
Coordination and support action (CSA) for mobility in Europe

Research questions

- Are EU research and initiatives aligned with the long-term goals in the (air) mobility sector?

- What are the research challenges to achieve the mobility goals envisioned for the future?

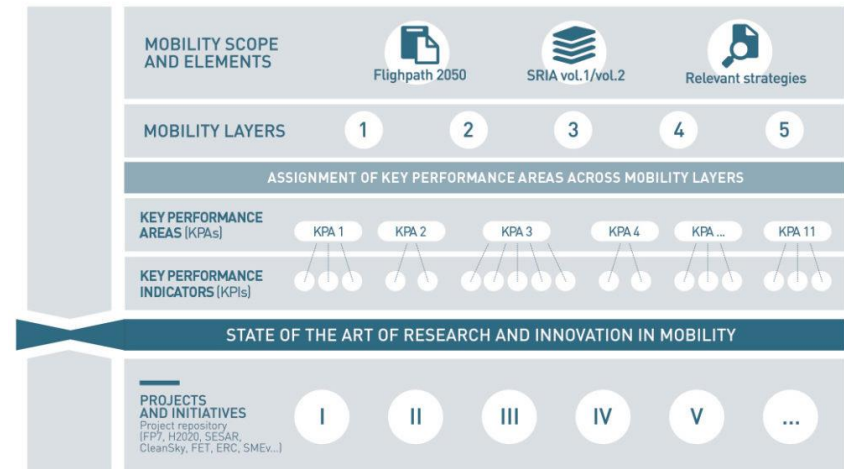- How can synergies with other transport domains be fostered

The project

- CAMERA is a funded project (GA 769606) of H2020 "Identification of gaps, barriers and needs in the aviation research" MG1.5-2017 call.

- Duration: Nov. 2017 – Oct. 2021

- Coordinated by Innaxis (Spain), with University of Westminster (UK), Bauhaus Luftfahrt (Germany), EUROCONTROL (France-Belgium) and DeepBlue (Italy) as partners

- http://camera.innaxisprojects.org/the-project/

- Meeting societal and market needs outlined in

  - Flightpath 2050 Goals
  - ACARE SRIA Action Areas
  - EC aviation strategy
  - etc.

- Translated into **CAMERA Performance Framework with five mobility layers, KPAs and KPIs**

Passenger-oriented, seamless and efficient door-to-door mobility paradigm

MOBILITY SCOPE AND ELEMENTS — Flighpath 2050 — SRIA vol.1/vol.2 — Relevant strategies

MOBILITY LAYERS 1 2 3 4 5

ASSIGNMENT OF KEY PERFORMANCE AREAS ACROSS MOBILITY LAYERS

KEY PERFORMANCE AREAS (KPAs) KPA 1 KPA 2 KPA 3 KPA 4 KPA ... KPA 11

KEY PERFORMANCE INDICATORS (KPIs)

STATE OF THE ART OF RESEARCH AND INNOVATION IN MOBILITY

PROJECTS AND INITIATIVES Project repository [FP7, H2020, SESAR, CleanSky, FET, ERC, SMEv...] I II III IV V ...

Layer #1 Creating an individualised & seamless mobility system for everyone

Layer #2 Improving the overall performance of the mobility system

Layer #3 Improving the resilience & re-configuration of the mobility system

Layer #4 Providing safe & efficient ATM services

Layer #5 Designing & implementing an integrated, intermodal transport system

Key Performance Areas
Developed by CAMERA

Flexibility

- Passengers of using different modes on-demand for a given route according to the personal situation (MaaS)
- Creating a resilient transport system

Predictability

- Predict possible disturbances and consequences
- allow enhanced travel planning that reduces actual travel times

Digitalisation & Information

- Real-time and high quality travel information that helps to 'free the mind' of passengers pre, during, and post journey
- Allow using travel time in a value-adding way

Environment

- Creating an environment-friendly mobility and air transport system by reducing greenhouse gas and other emissions
- Push of environmentally-friendly technologies, solutions and increased operational efficiency

Access & Equity

- Seamless, multimodal and inclusive surface transport to and from the airport
- Including also novel transport concepts

(Operational)-Efficiency

- Creating an optimised transport system in terms of costs, emissions and overall travel time along

Interoperability

- Intermodal integration, alignment and data and information sharing across transport modes

Security

- Security standards affecting passengers and providers necessary to keep the transport system safe

Safety

- Technical and operational measures taken to reduce accidents and fatalities

Capacity

- Meeting passenger requirements at the required time and thus providing either sufficient capacity or using available capacity efficiently

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