Mobility concepts enhancing the seamless passenger journey

DATASET2050 (D5.3 | due November, 2017)
Annika Paul
Motivation
Seamless passenger door-to-door journey

Objectives
- Mobility concepts capable of providing a door-to-door service to customers, addressing the requirements on demand and supply side

Novel concept foundations
- Pool of intermodal concepts (current and future) which enable seamless passenger journey
- Identification of (stakeholder) requirements and establishment of key performance indicators
- Identification of gaps and bottlenecks within the current system and in regard to new concepts and ideas
- Proposition of new solutions and approaches as well as policy recommendations
Intermodal concepts
Repository of current and future mobility solutions

>>> Mobility concept repository

- Publicly available information on current and future mobility approaches and ideas
- Workshop with different stakeholders at dissemination event of EU project Mobility4EU to discuss requirements for multi-modal collaboration

>>> Mobility concepts / approaches clustered according to

- Type of concept
  - 12 categories including more than 80 different mobility concepts / ideas so far

- Number of modes included
  - Uni-modal vs. multimodal

- National / international scope
  - Dissemination level across different regions and countries

- Time horizon
  - Year of implementation vs. visionary concept
Intermodal concepts
Different types of concepts

Flying Urban Concepts
- CARSHARING
- OTHERS

Car Providers
- drive
- car2go
- stadtmbel
- tamiya
- FREE2MOV
- secric
- turo
- Drivenow

Bus Providers
- BIKE&FLY
- OTHERS

Bike Providers
- widerøe
- cb
- iberia

Transport System
- hyperloop
- one

On-Demand-Mobility
- PUBLIC TRANSPORT
- INDIVIDUAL SERVICE

Rail Providers
- CODE SHARING
- SINGLE TICKETING

Sea Companies
- Bay Shuttle
- KOB-E-ANGAI-AIRPORT

Ticket & Mode Integration
- INTEGRATED TICKETING
- APPS-MOBILITY PLANNING & TRAVEL

E-Scooter
- Turo
- Griip

Information Service
- INTEGRATED
- MOBILITY
- PLANNING & TRAVEL

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European Door-to-Door Mobility Workshop | 20.09.2017
Intermodal concepts
Clustering according to number of modes included

= no. of concepts
Intermodal concepts
Clustering according to number of modes included

Mainly providers of software platforms which integrate ticketing for different transport modes
Providers of physical mobility services only exhibit limited degree of intermodal integration.
Initial assessment
Application of high-level passenger KPIs

>> Approach

> Definition of high-level key performance indicators (KPIs) resulting from passenger requirements for a seamless journey

> Data collection on considered mobility concepts to assess each indicator

> Benchmarking of mobility concepts across defined KPIs

> Comparison of different concepts to assess benefits and drawbacks of each solution
Initial assessment
Comparison of selected intermodal concepts

Provision of real-time information in case of schedule changes

Seamless luggage transfer between modes (no passenger involvement)

Baggage through-handling

Integrated journey planning

Planning tool to compare journey alternatives

Joint booking and ticketing

Single booking and ticketing across different journey segments

Interchange facilities between modes

Quality of physical platform for interchange

Pricing of alternatives and overall travel time

Journey time and costs

Liability issues

Single contact point, collaborative data management, shared liabilities

Next steps
Finalisation of DATASET2050

>> Assessment of mobility concept repository
   > Application of key performance indicators within DATASET2050, considering both demand and supply side aspects
   > Identification of current gaps and bottlenecks and respective improvement potential

>> Workshop @ Mobility4EU event
   > Data sharing
      > Collaboration between transport providers to provide real-time updates and efficient intermodal alignment
      > Rules and regulations regarding data handling and passenger privacy issues
   > Legal framework
      > Liabilities in terms of delays, lost luggage or reimbursements / revenue sharing
   > Passenger demand pooling
      > Covering “last mile” which often constitutes a bottleneck within seamless journey

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