EIP-SCC
European Innovation Partnership on Smart Cities and Communities

Smart Mobility in Smart Cities
WALK. RIDE. DRIVE. FLY

TRANSPORT RESEARCH & INNOVATION TO HELP SHAPE THE URBAN MOBILITY ECOSYSTEM OF TOMORROW

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ACARE

Advisory
Council for
Aviation
Research and Innovation in
Europe

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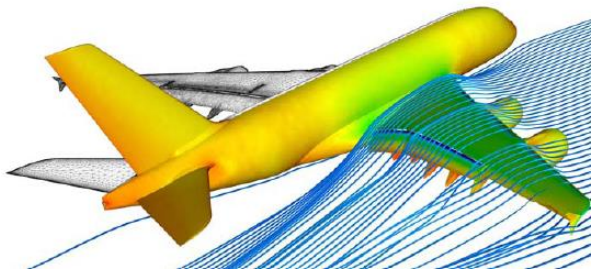
AIRBUS
URBAN MOBILITY

ACARE

Road map for aviation research, development & innovation

Content aligned to five goals of Flightpath 2050:

- **Meeting Societal and Market Needs**
- **Maintaining and Extending Industrial Leadership**
- **Protecting the Environment and the Energy Supply**
- **Ensuring Safety and Security**
- **Prioritising Research, Testing Capabilities & Education**



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Meeting Societal & Market Needs

European citizens are able to make informed mobility choices.

90% of travellers within Europe are able to complete their journey, door-to-door within 4 hrs.

A coherent ground infrastructure is developed.

Flights land within 1 minute of the planned arrival time.

An air traffic management system is capable of handling 25 million flights a year in Europe.

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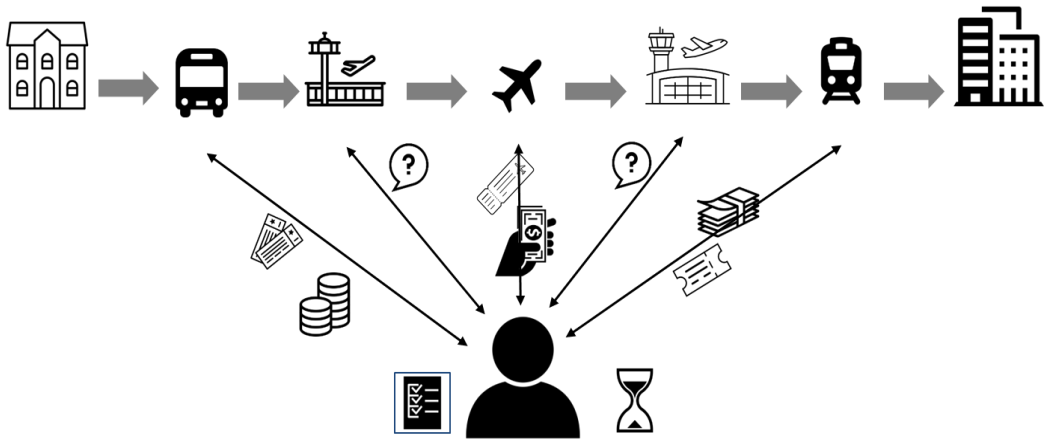
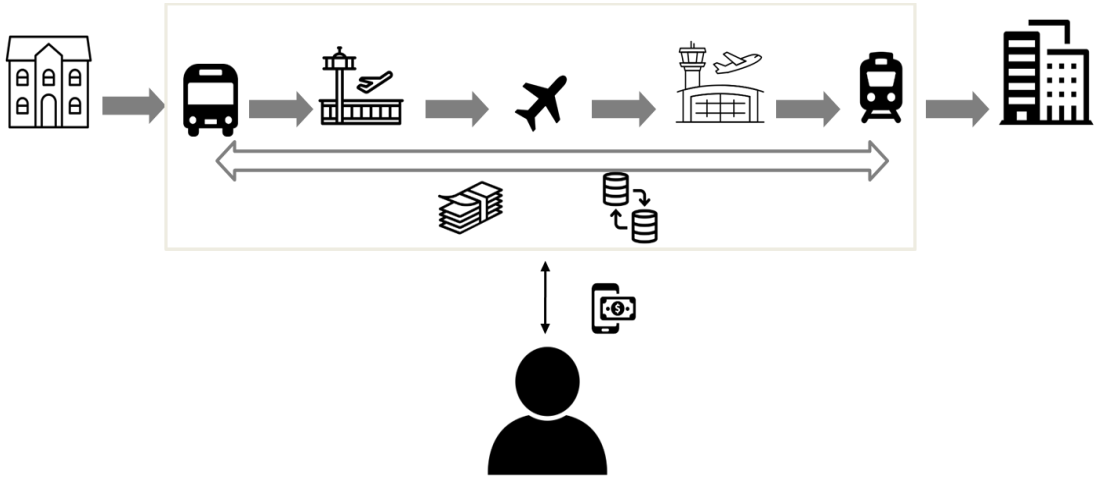
Passenger centricity as of Today



Today‘s transport system is passenger-centric only in a way that the **passenger is in charge** of planning, reservation and management of the journey ...

Passenger centricity of the Future



The future transport system should be passenger-centric in a way that **transport providers commit** to a door-to-door transport contract and manage it accordingly ...

Mobility solutions in smart cities

Motto of UAM initiative:

Smart mobility in smart cities:

WALK.

RIDE.

DRIVE.

FLY.

Typical multimodal mobility solutions in megacities **do not consider air mobility**

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EU Urban Air Mobility

A Community and the Voice of 42 cities / regions

FrontRunners [●] 12 demonstrator projects (17 cities / regions, incl. 2 Cross-border)

Fellows [■] (25 cities / regions)

Madrid (ES), Oxfordshire County (UK), County Durham (UK), Skyros Island (GR), Amsterdam (NL), Region of Peloponnese (GR), Ionian Islands Region (GR), Turin (IT), Trikala (GR), Eurometropole: Lille-Kortrijk-Tournai (BE-FR), Tampere (FI), Stockholm (SE), Region Ile de France (Paris Region - FR), Padua (IT), Ljubljana (SI), Oulu (FI), Malaga (ES), Metropolis GZM (PL), Le Havre Metropole (FR), Turnhout (BE), Lliria (ES), Seville (ES), Benidorm (ES), Aix-Marseille Metropole & Region Sud (FR), Porto (PT)

More than **500 diverse stakeholders** mobilised across **Europe** to work on bringing **urban mobility** to the **3rd dimension**!

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BELGIUM, City of Antwerp, 10th September [drones for public security]

NETHERLANDS-GERMANY-BELGIUM, MAHHL-Cities (Maastricht, Aachen, Heerlen, Hasselt and Liege), 24th September [drones for emergency services and taxi]

NETHERLANDS-GERMANY, Euregio (Enschede-Münster), 6th September [drones for emergency services]

GERMANY, City-State of Hamburg, 7th June [drones for medical deliveries]

BELGIUM, City of Ghent, 21st June [drones for medical assistance]

GERMANY, Northern Hesse Region (incl. Bad Hersfeld), 28th September [drones for logistics]

BELGIUM, City of Brussels, 16th July [drones for medical assistance]

GERMANY, City of Ingolstadt and its region (State of Bavaria), 19th June [Drones for medical assistance and taxi]

FRANCE, Region Nouvelle Aquitaine (incl. Bordeaux Metropole), 20th September [drones for smart tourism]

BULGARIA, City of Plovdiv, 27th June [drones for logistics]

FRANCE, Toulouse Metropole, 19th September [drones for environmental monitoring]

SWITZERLAND, Canton of Geneva, 30th May [drones for ambulance and taxi]

UIC²

UAM Initiative Cities Community

Scope of the UAM Initiative

City-centric & citizen-driven

Smart Mobility demonstrators

interfacing/enabling UAM

by addressing:

1. **UAM interfaces with *public transport**
2. **Mobility as a Service**
3. **Ground infrastructure for UAM**
4. **ATM / UTM concepts** for UAM in accordance with the U-Space framework

** Or other interfaces:*
e.g. logistics platform, emergency services hubs, etc.

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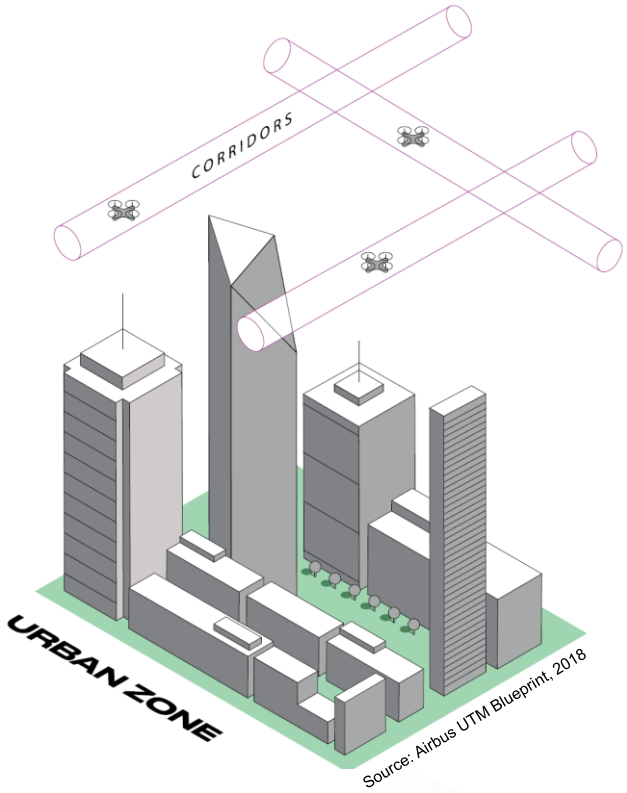
Urban traffic goes to the third dimension!

‘*Urban*’ implies more than increased levels of safety and security



Urban air traffic sets a new ‘status quo’

- ✓ Airspace digitalisation
- ✓ New infrastructure *(aviation + mobility)*
- ✓ New interfaces *(aviation + mobility)*
- ✓ New business / services
- ✓ New mindset on inherently iterative policy and regulatory approaches

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Thank you!

Any questions?

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