Urban Air Mobility
UAM Initiative

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UAM Initiative Leader

EIP-SCC General Assembly
Sofia, 27th June 2018,

EIP-UAM Initiative:

Get to know the mobility demonstration projects of the engaged European Cities

UAM Initiative: 'SHAPE' sessions

EXPLORE

See and learn what's next

The **Explore** Zone will equip you with vital knowledge to move forward with your projects.

Attendees have open access to the Showcase Pods, Knowledge Wall, Speakers' Corner and Community Meetup Zone.

SHAPE

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Introducing Air Mobility in Urban Environments:

What challenges and opportunities for Infrastructure Planning and Citizens Active Involvement?

@ 14:00-16:00

EIP-UAM Initiative

Get to know the mobility demonstration projects of the engaged European Cities

@16:20-18:20

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on Smart Cities and Communities

Agenda

1) **UAM Initiative** (reminder & status) - *15 mins*

2) **Cities Presentations** ('Signed' and 'To-Sign') - *90 mins*

3) **UAM Initiative** (wrap up & next steps) - *15 mins*

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WHY

Smart Cities are leading the transformation of mobility

Smart Mobility aims at reduced **traffic congestion** and **CO_2 emissions** from mobility.

Source: Smart Cities Council

Smart mobility is the application of **native digital applications** *(digital technology and business models)* to improve the efficiency and effectiveness of transportation in smart cities.

Source: Reuters

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WHAT

Mobility Solutions in Smart Cities

Smart Mobility in Smart Cities:

WALK.

RIDE.

DRIVE.

FLY.
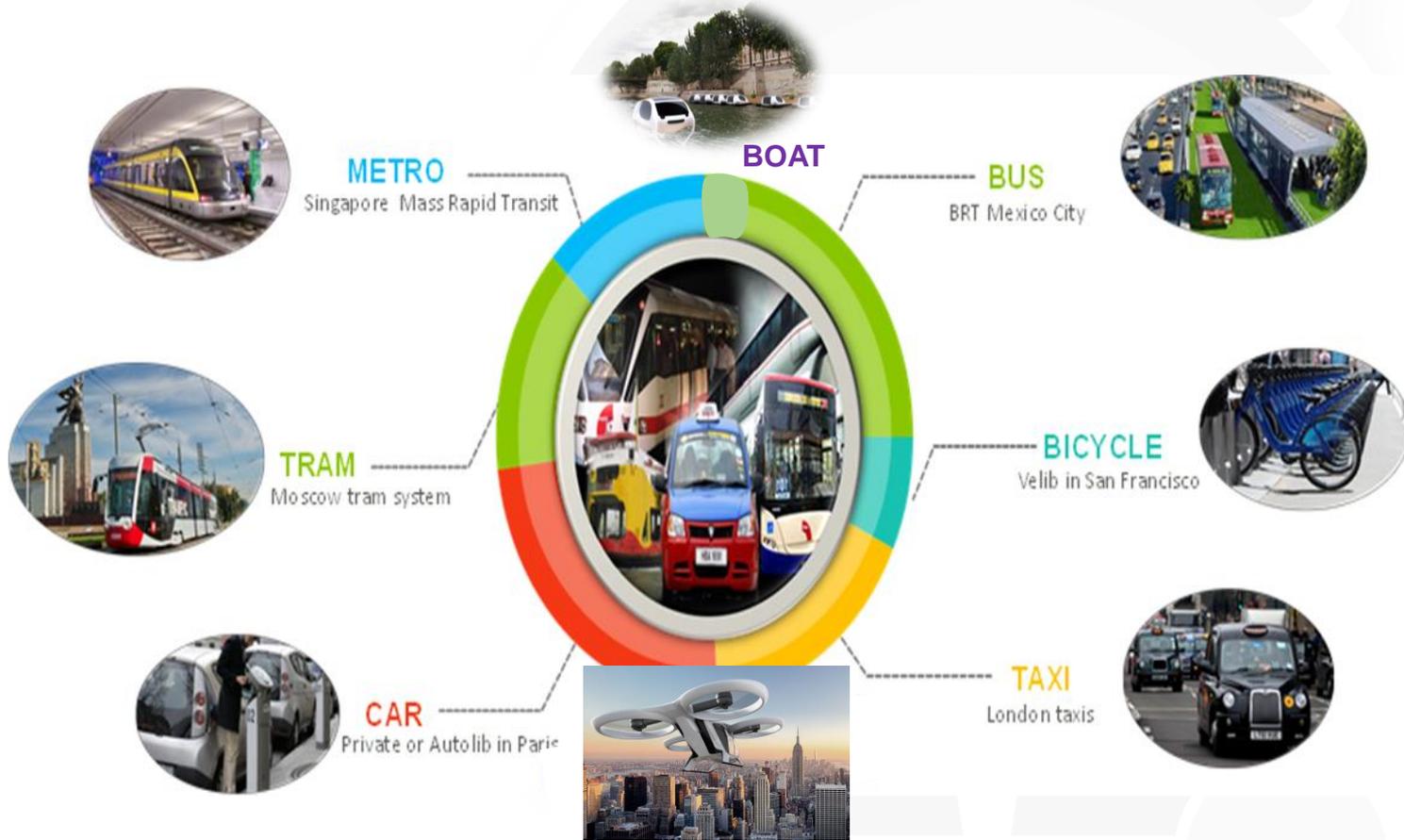
Typical multimodal mobility solutions in megacities
do not consider air mobility

WHAT

Scope of UAM Initiative

The UAM Initiative steers its activities on smart mobility initiatives interfacing, or enabling UAM by addressing topics around the following four (initially, and not limited to) parallel thematic pillars:

1. UAM interfaces with public transport *(incl. existing and future setups)*

2. Mobility as a Service *(e.g. mobility platforms, seamless mobility, cybersecurity, insurance, legal, transport operations)*

3. Ground infrastructure for UAM *(e.g. real estate stakes and initiatives to support UAM such as dedicated UAM landing pads and integration to multimodal networks hubs, advanced communications-IoT)*

4. ATM/UTM concepts for UAM and its integration in view of single sky operations

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WHO & HOW

Cities and a wide spectrum of stakeholders

Cities are more than **customers** and **users** of UAM solutions; they are **partners**.

- ✓ Cities **own and regulate** transportation infrastructure
- ✓ Cities **own and control** traffic and transport data
- ✓ Smart cities have the **digital infrastructure backbone** for managing and sharing real-time traffic and transport data

Source: http://www.rinnovabili.it

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

- ✓ **integrated mobility** solutions *(e.g. ground + air)*
- ✓ **demonstrable benefits** to citizens *(e.g. time, comfort, value)*
- ✓ **socially & environmentally acceptable** solutions *(e.g. security, noise)*

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ROADMAP

Phase	Description	Key Output
First Phase (Q4, 2017 – Q2, 2018)	Inform about & Engage on demonstration projects	Key Output: Manifestos of Intent
Second Phase (Q2, 2018 – Q1, 2019)	Define & Prepare demonstration projects	Key Output: If GO - Memorandums of Understanding
Third Phase (Q1-Q4, 2019)	Run & Conclude demonstration projects	Key Output: EIP-UAM Initiative Demonstrators
UAM Initiative Dissemination Events (in Q1, 2020)	Achievements & Way Forward	Key Output: Dissemination & Documentation

- Integrated Infrastructure Planning
- Citizens Engagement
- Raising Investments

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Cities that have already 'SIGNED'

- ✓ Canton of **Geneva**, 30th May

- ✓ City-State of **Hamburg**, 7th June

- ✓ City of **Ingolstadt** and its region (State of Bavaria), 19th June

- ✓ City of **Ghent**, 21st June

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Cities/Regions strongly committed 'TO-SIGN'

What about UK Cities?
Guest: **NESTA Flying High Challenge**
(represented by Transport for London,TfL)

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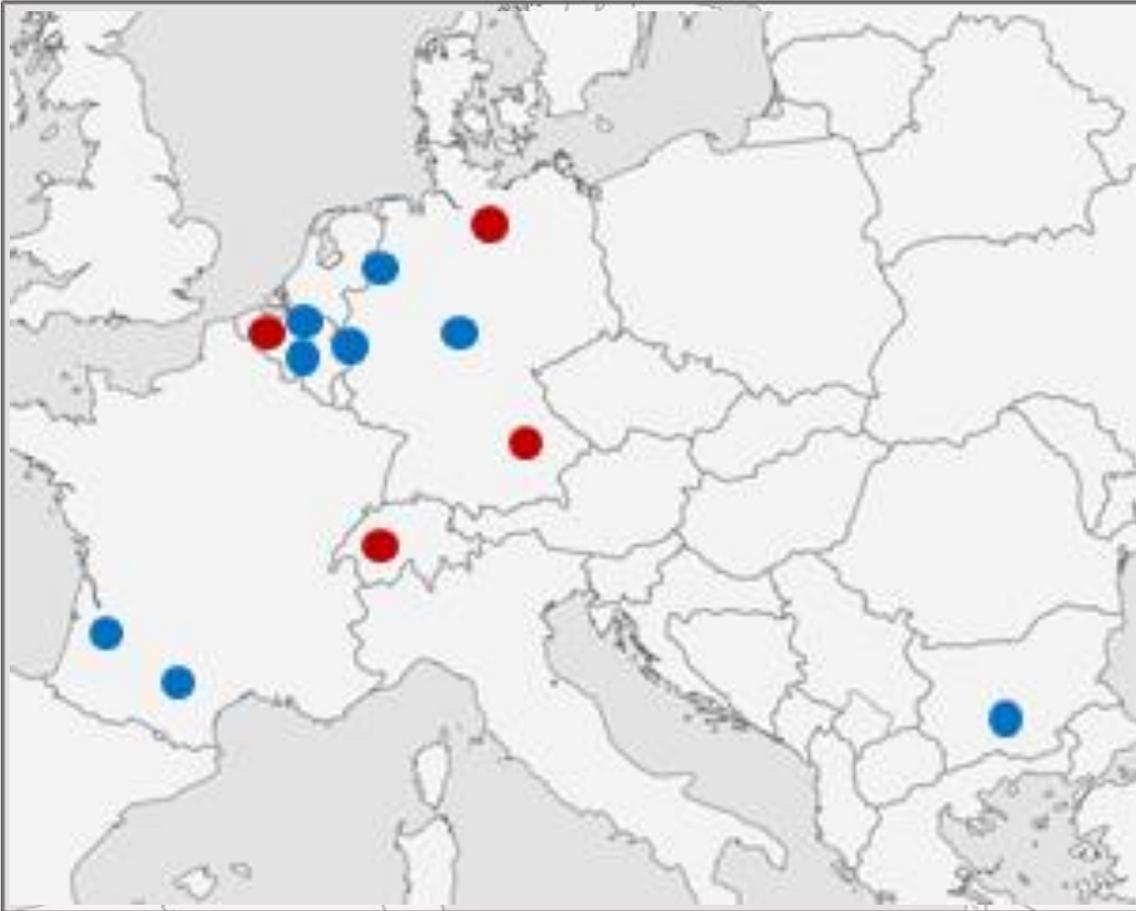
- ✓ City of **Brussels**

- ✓ Members of the MAHHL-Cities **Aachen, Liege, Maastricht, Heerlen and Hasselt**

- ✓ EUREGIO Region **Münster, Osnabrück, Enschede and Hengelo**

- ✓ City of **Toulouse (Metropole)**

- ✓ Region **Nouvelle Aquitaine** (incl. Bordeaux Metropole)

- ✓ City of **Antwerp**

- ✓ City of **Bad Hersfeld**

- ✓ City of **Plovdiv** and its region

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Wrap up & next steps

- Following a city's mobility need declaration and strong motivation for 'air mobility'…

  - ✓ *Put in place an initially-minimum <u>Political & Institutional</u> endorsement, FIRST!*
  - ✓ *Seek for technology and business partners, AFTER.*

- Focus on building 'open' local ecosystems; consortia around a **city's mobility need** rather than a 'one-place' forum at European level.

  - ✓ *National and international partners to support innovation/business acceleration, best practice dissemination within Europe*
  - ✓ *Institutional stakeholders and Investors involved early and participate also as '**partners**'*

- Opportunity to leverage on 'critical mass' built from cities signed up

  - ✓ *cross-fertilisation among cities and 'influence'*
  - ✓ *Be part of the forthcoming 'European network of drone demonstrators' (expected Nov 2018)*

Launch of **UIC^2** *–*

***U**AM*
***I**nitiative*
***C**ities*
***C**ommunity*

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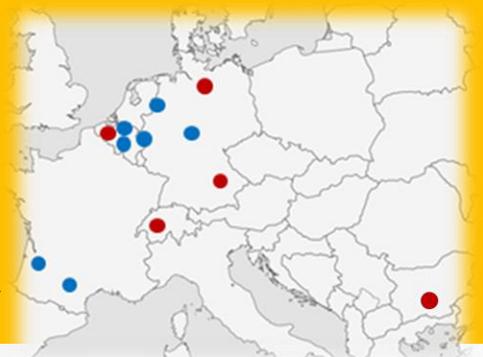
UAM Initiative: 'DEAL' activities

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The UIC^2 meets the Investors

Wed 27th
@ 18:30 - 19:00,
Whitehelm+Green

Thursday 28th
@ 08:40 - 09:10, Belfius
@ 10:10 - 10:40, EIB

VOLOCOPTER

AIRBUS

EIB, OVG, Belfius, Whitehelm Capital, Urban Regional Development Fund Bulgaria, EEEF, EBRD

Use the EIP-SCC General Assembly App for further matchmaking / meeting requests

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