



## DRIVING THE SUSTAINABLE & RESPONSIBLE

### TRANSITION OF URBAN MOBILITY TO THE

THIRD (VERTICAL) DIMENSION



Leader, UAM Initiative
An Initiative of EU Smart Cities

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SHAPING THE FUTURE OF AIR TRAVEL





### **Urban Air Mobility Initiative Cities Community**

The voice of cities and regions in urban air mobility

DRIVING THE SUSTAINABLE & RESPONSIBLE TRANSITION OF URBAN MOBILITY TO THE 3<sup>RD</sup> DIMENSION





## Driving a sustainable & responsible transition:

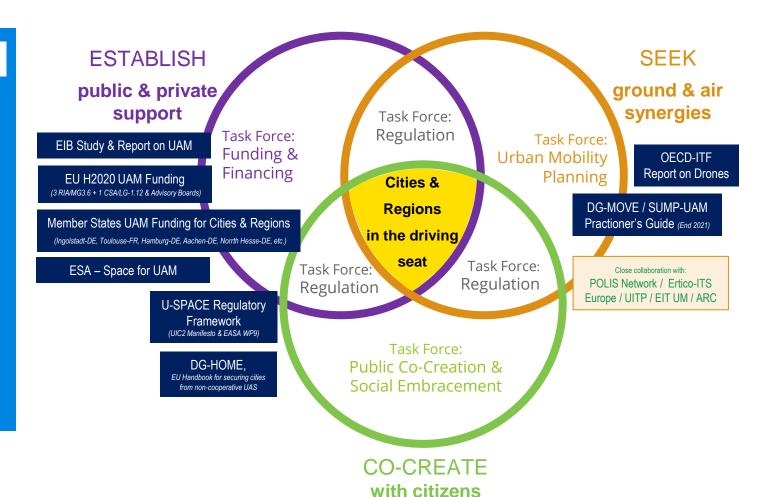
The UIC2 Task Forces

### Towards a sustainable & responsible transition to UAM

A three-fold approach is required

#### **Reminder of Prerequisites**

- ✓ integrated sustainable urban mobility solutions
- ✓ <u>demonstrable</u><u>benefits</u> to citizens
- ✓ socially & environmentally acceptable solutions



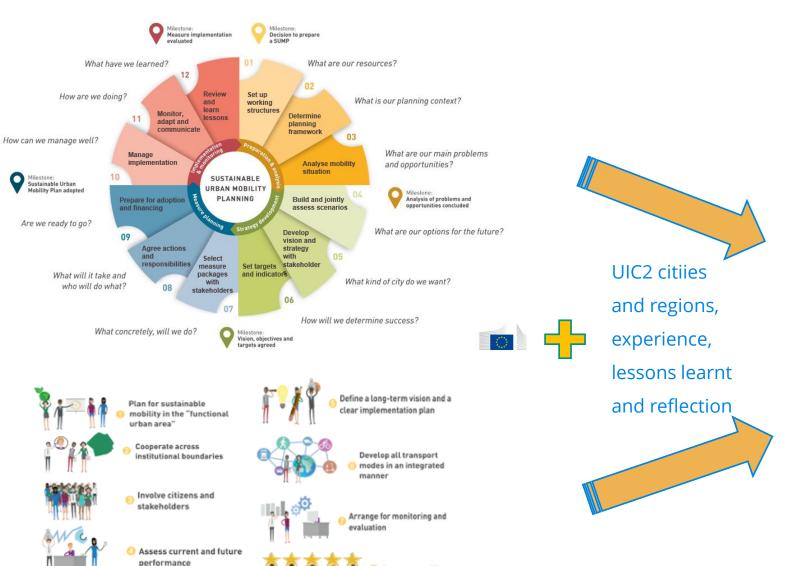
# UIC2 serves as a city-centric platform to:

- Ensure a holistic approach to urban mobility
- ✓ Proactively engage with citizens
- ✓ Co-create with public and private actors (incl. citizens)

An initiative of the Smart Cities Marketplace #EUSmartCities

WALK.RIDE.DRIVE.FLY

## Towards Integrated Sustainable Urban Mobility 2/2



#### The SUMP-UAM Practitioner Briefing

https://www.eltis.org/in-brief/news/new-sump-practitioner-briefing-urban-air-mobility



(1) Assure quality

WALK.RIDE.DRIVE.FLY

## Multilevel Governance of the Urban Sky



#### www.amsterdamdroneweek.com/manifesto



#### Manifesto on the Multilevel Governance of the Urban Sky by the UAM Initiative Cities Community - UIC3

The UAM Initiative Cities Community (UIC2) of the EU's Smart Cities Marketplace formerly known as EIP-SCC Urban Air Mobility (UAM) Initiative- is thankful to the European Commission for supporting it through its smart cities marketplace platform since October 2017.

The members of the UIC2 recognise the importance for harmonised and universal U-Space regulation at EU level. We acknowledge the need for approval of urban flight operations at national level, in alignment with U-Space regulation. Moreover, we recognise the need for national and regional competent civil aviation authorities to lead the legal implementation and approval of urban flight operations in accordance with the principles of subsidiarity and proportionality.

The members of the UIC2 also recognise and request that the role of the cities and regions as one of the competent authorities in the governance of the urban airspace, is explicitly acknowledged and referenced in the prospective U-Space legislative clauses of Member States. This is an imperative in the context of multilevel governance of U-Space and responsive decentralised policy

In specific, the UIC2 members request that:

- 1. Cities/Regions have a deciding role for allowing the operation of UAM services of public interest (e.g. future public transport, postal-deliveries, emergence services) in alignment with the needs and preferences of their citizens.
- Cities/Regions have a deciding role in establishing to what extent UAM/U-Space operations can be conducted in
- Cities/Regions have a deciding role where UAM/U-Space flight operations are permitted within their territories (e.g. geo-fencing, day- / night-time noise and visual abatements)
- Cities/Regions have a deciding role where take-off and landing sites are to be built.
- 5. Prosecution of infringements of the public use of the urban airspace over a city/regions remains a local task.

The members of the UIC2 trust that the above requests will be treated with consideration and attention in: a) the forthcoming European U-Space Regulatory Framework by acknowledging the imperative for multilevel governance of U-Space; and b) the legislative processes of U-Space Regulation by Member States.



Marketplace has enabled cities and regions to become UAM role models and to discuss their opinions and concerns directly with European and State Member authorities and policy making bodies, including DG-Move EASA, Eurocontrol and SESAR JU. For example, the German UIC<sup>2</sup> members are building a partnership, since 2019, that is supported by the BMVI (Federal Ministry of Transport and Digital Infrastructure) to focus on open exchange and collaboration as well as standard-setting for more future UAM cities and regions.

The UAM Initiative of the Smart Cities

The efforts and engagement of UIC alongside with the European Commission's support have resulted in fruitful interactions and concrete actions towards sustainable and integrated urban mobility, some of which are highlighted below:

- The invitation to UIC<sup>1</sup> to become member of U-Space Network of Demonstrators in October 2018. This has helped us to be in contact and discuss with ANSPs (Air Navigation Service Providers), industry actors and national authorities regularly;
- The inviation to UIC<sup>2</sup> Task Forces (representatives, including Mayors/ Vice-Mayors) to meet with the former Commissioner of Transport (Violeta Bulc, DG-Move) in May 2019. This has allowed us to share the progress of the community's work as well as the specific challenges faced by the local authorities in sustainably nurturing and safely advancing the UAM ecosystem.
- The invitation to UIC<sup>2</sup> to participate in U-Space regulation drafting workshops at EASA headquarters in May 2019. This allowed UIC<sup>2</sup> to further emphasise the

importance of the role of cities and egions in the governance of urban

- The preparation of an EIB (European Investment Bank) Advisory Hub assignment for UAM since 2019, and its development of their business model: and carry out an early market assessment of the UAM sector.
  - The development of two UAM dedicated calls for funding in the context of sustainable urban mobility under the H2020 framework (2019-2020); namely, the UAM Research and nnovation Action (RIA, MG-3.6) and the HAM Coordination and Support Action (CSA, LG-1.12) calls. These enabled some UIC<sup>2</sup> members and their industrial and academic partners to participate in consortia and be awarded respected funding for their projects starting in Q1
  - The invitation and assignment to the UIC2, in December 2019, of the task to develop the Practioners Briefing on LIAM in the context of the Sustainable Urban Mobility Plan process (SUMP-UAM). The ongoing city/region-led work sheds light, based first-hand experience from the UIC2, into the challenges, opportunities, lessons learnt and initial recommendations to effectively integrate UAM aspects in the SUMP processes of cities and regions

UIC2 highly acknowledges and appreciates the European Commission's support and dedication towards this community that has led to its recognition as the leading city/ region-driven community on UAM.



#### Cities and Regions already supporting ...





























City of Ljubljana

Ayuntamiento de Málaga













Gemeente Maastricht





MADRID























#### Organisations / Associations already supporting ...

























Commonweatlh of Massachusetts (USA) MassDOT, Aeronautics Division











## Towards a worldwide UAM community of cities and regions

## World Economic Forum AAM/UAM Cities and Regions Coalition

with support by the UIC2 (European Pillar)

The World Economic Forum's Advanced & Urban Air Mobility (AAM/UAM) Cities and Regions Coalition will be announced in March 2022 at Amsterdam Drone Week.

The coalition will create a forum for **extending** the conversations that have taken place within UIC2 in Europe to a worldwide level.

Its goals are to support policy makers in **responsibly** integrating new aerial platforms into urban and regional transportation networks.

Cities and regions will **set the agenda** for the groups work and will be supported by industry as needed.

The Forum is seeking to announce a group of high ambition city/region partners as founding members at the January launch.

These cities and regions will have the opportunity to be leaders in the area of AAM/UAM and will help shape its implementation as a **service** by:

- Undertaking policy development exercises.
- Implementing pilot programs to assess the real-world impacts of policies.
- Sharing their findings with other cities and regions to help identify best practices.

