

Social aspects and human factors in U-space implementation

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Who are we?

Future Needs is an interdisciplinary SME active in the field of ***Social Science and Humanities*** research.

Our team collaborates across social science and technology, to bring insights from each to ***innovative solutions*** and ***sound policy***.

Our expertise

- Policy advice and technical assistance on reform and modernization of local, regional, and national strategies while promoting synergies between all government levels;
- Qualitative and quantitative social and business research;
- Support services to organisations working with vulnerable groups and individuals;
- Support organisation in managing EU Structural Funds and projects promoting regional development;
- Design and delivery of customized Vocational Education and Lifelong Learning programmes;
- Science dissemination and communication activities, and community building.

UAM Smart City Indicators Framework

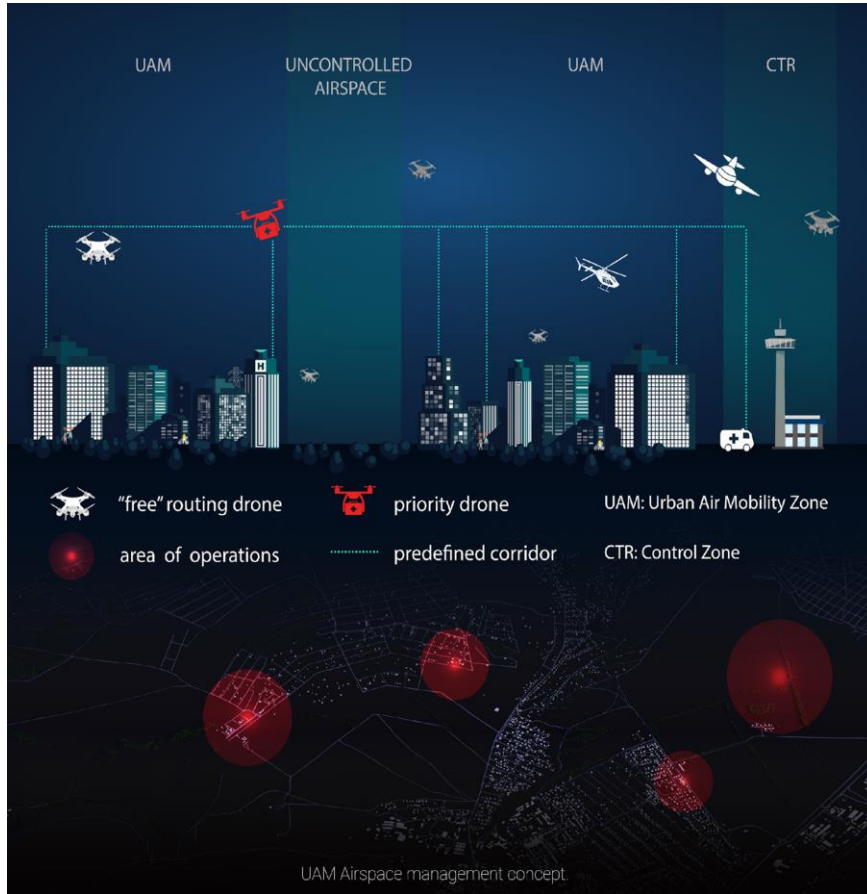
Development of an assessment framework for the impact of medical UAM on cities

Human Performance Assessment

Data collection for the assessment of human factor at each demo flight and provision of feedback in the evaluation and recommendations report

Stay tuned for the deliverables!

The bigger picture



Objectives

Help urban authorities realize their role and make their first steps in the UAS world

Improve infrastructure contributing to safer transport with a positive social impact

Ensure sustainable infrastructure that is beneficial for society and environmentally friendly

Demonstrate novel public UAM services and service models

Regulation, standards, business prospects and outputs dissemination: Ensure sustainability and mid-term wide adoption of the proposed solution

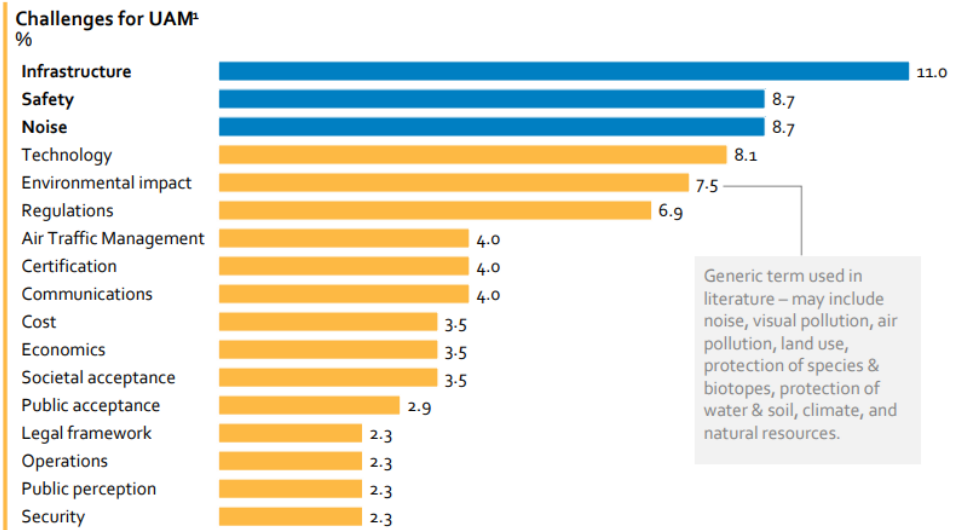
Past research

UAM Challenges Literature Review



Study on the societal acceptance of Urban Air Mobility in Europe

Understudied dimensions of Urban Air Mobility



1. Share of the 173 mentions regarding challenges (multiple per publication possible);

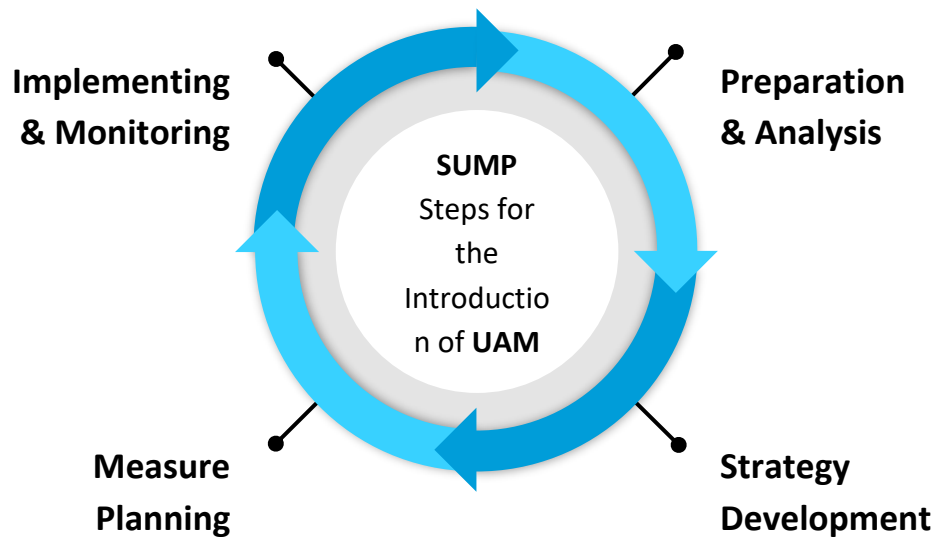
When & Why to use indicators?



Our framework will be aligned with the SUMP's methodology **already being implemented by cities in Europe** for other modes of transport to enable faster acceptance and operationalisation of the indicators.

What is SUMP?

Sustainable Urban Mobility Plan (SUMP) Process



Sustainable Urban Mobility Indicators (SUMI)

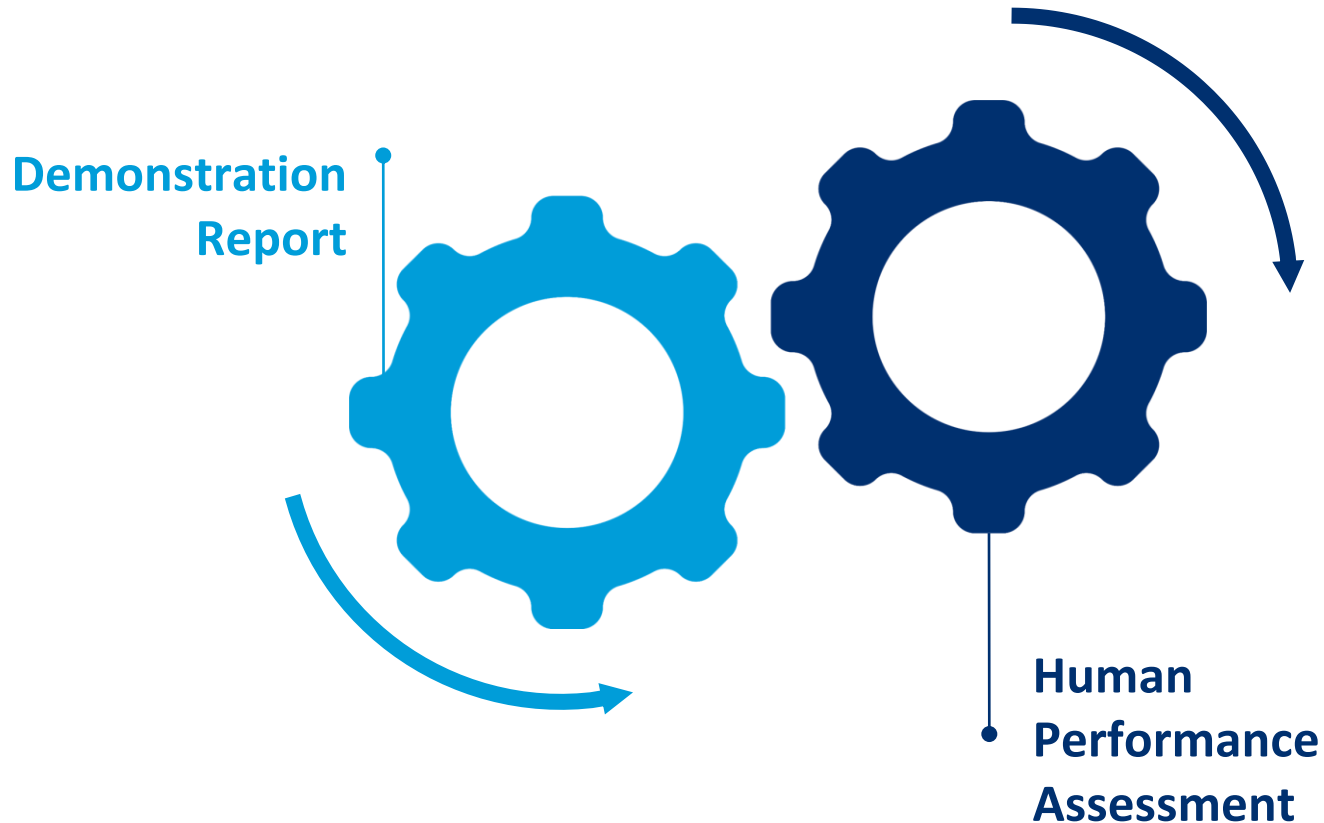
Practitioner Briefing by UIC2 (December 2021)

Two levels within **SUMI**: 'distinction between high-level indicators from the **SUMI** framework that should be treated as 'fixed', and lower-level indicators which could be developed to address UAM-related activities'

Low level **SUAMI**

Human factors

Human performance as a new challenge for U-space implementation

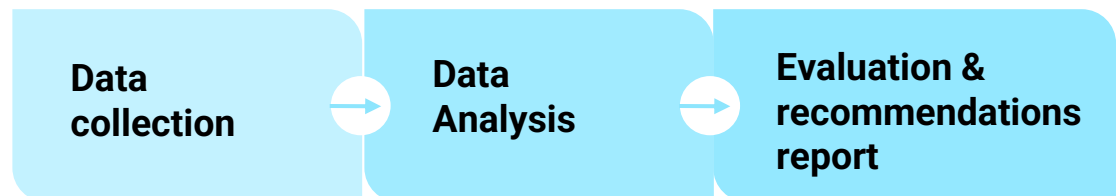


Summary

UAM Smart City Indicators Framework



Human Assessment Performance



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THANK YOU FOR YOUR ATTENTION

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