

How to evaluate the UAM impact on a city via a framework of UAM Smart City Indicators

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Who are we?

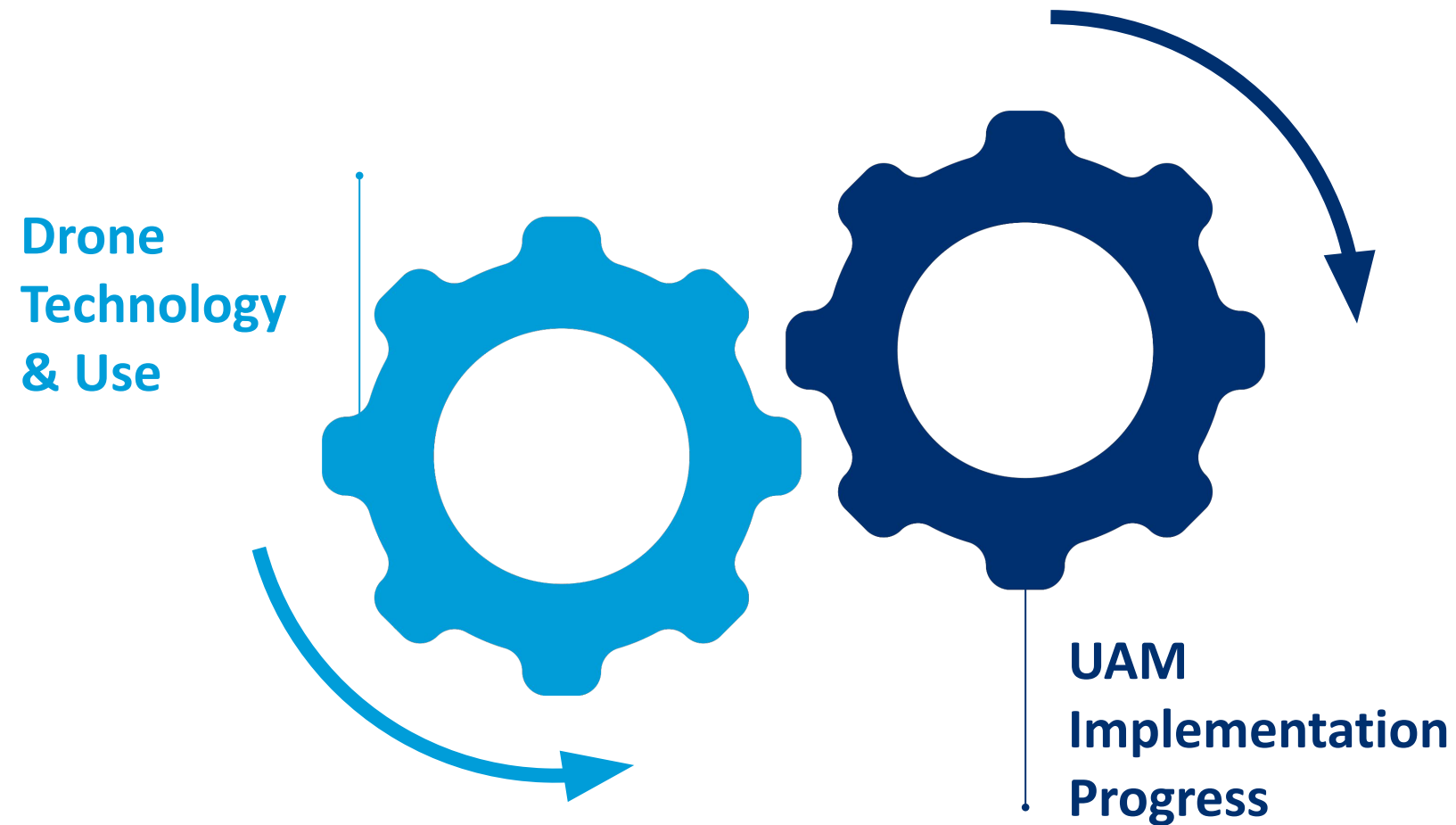
Future Needs is an interdisciplinary SME active in the field of ***Social Science and Humanities*** research.

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.

Introduction - Impact of UAM



Aim

Development of an assessment framework for the impact of medical UAM & validation with the city of Aachen.

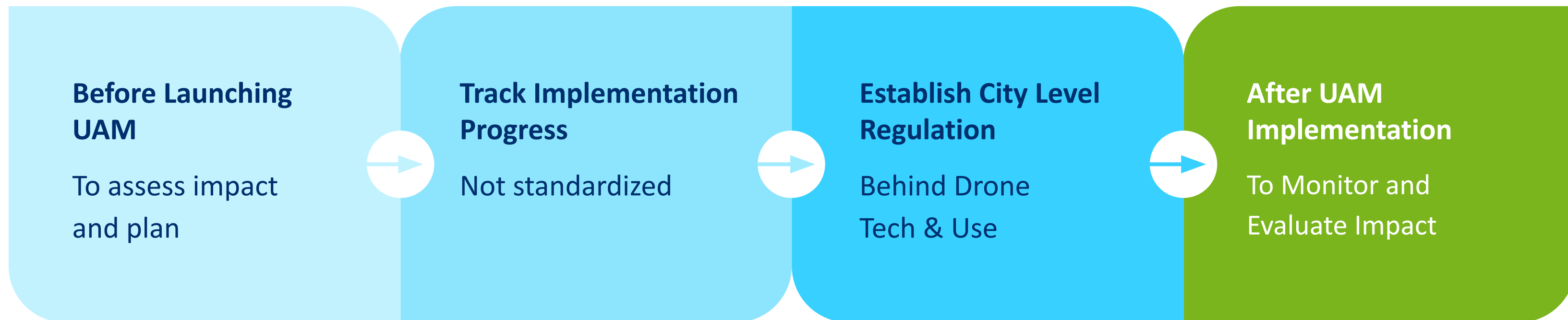
How?

Via a set of Sustainable UAM Indicators (SUAMI)

Introduction - Impact of UAM

When & Why

to use indicators?

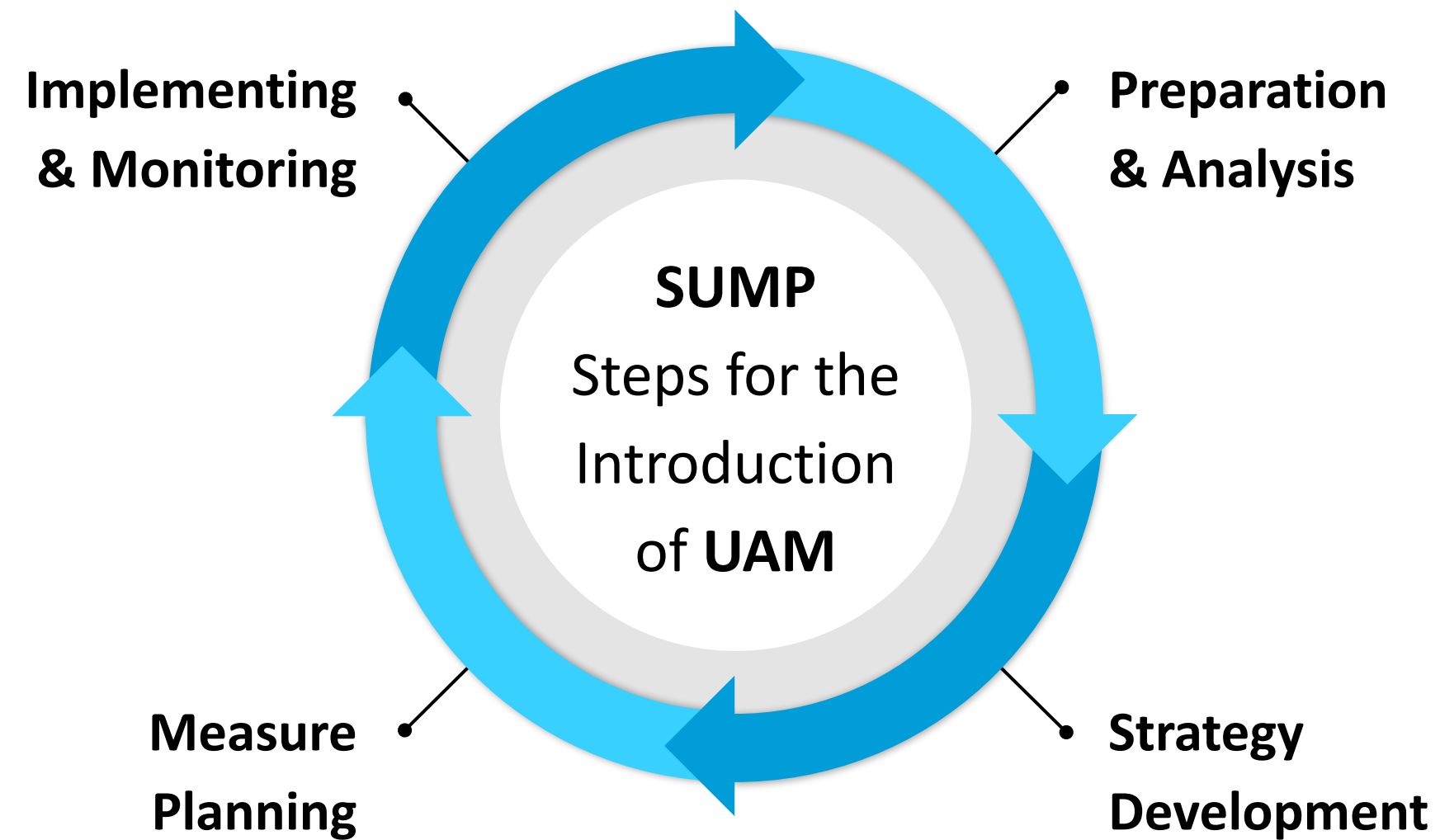


Our framework will be aligned with the SUMP's methodology **already being implemented by cities in Europe** for other modes of transport to enable faster acceptance and operationalisation of the indicators.

What is SUMP?

SUMP Methodology

Sustainable Urban Mobility Plan (SUMP) Process



What is SUMP?

SUMP Methodology

The 8 SUMP principles in the context of UAM

1. Plan for sustainable mobility in the “functional city”

2. Cooperate across institutional boundaries

3. Involve citizens and stakeholders

4. Assess current and future performance

5. Define a long-term vision & a clear implementation plan

6. Develop all transport modes in an integrated manner

7. Arrange for monitoring and evaluation

8. Assure quality

Sustainable Urban Mobility Indicators (SUMI)

Core Indicators
Affordability of public transport for the poorest group
Accessibility of public transport for mobility-impaired groups
Air pollutant emissions
Noise hindrance
Road deaths
Access to mobility services
Greenhouse gas emissions
Congestion and delays
Energy efficiency
Opportunity for active mobility
Multimodal integration
Satisfaction with public transport
Traffic safety active models

Non-Core Indicators
Quality of public spaces
Urban functional diversity
Commuting travel time
Mobility space usage
Security

Sustainable Urban Mobility Indicators (SUMI)

Existing approach

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**

- **Affordability of public transport**

- *UAM indicator 1*

- *UAM indicator 2*

SUAMI

- **Accessibility of public transport**

- *UAM indicator 3*

- *UAM indicator 4*

SUAMI

- **Air pollutant emissions**

- *UAM indicator 5*

SUAMI

- **Noise hindrance**

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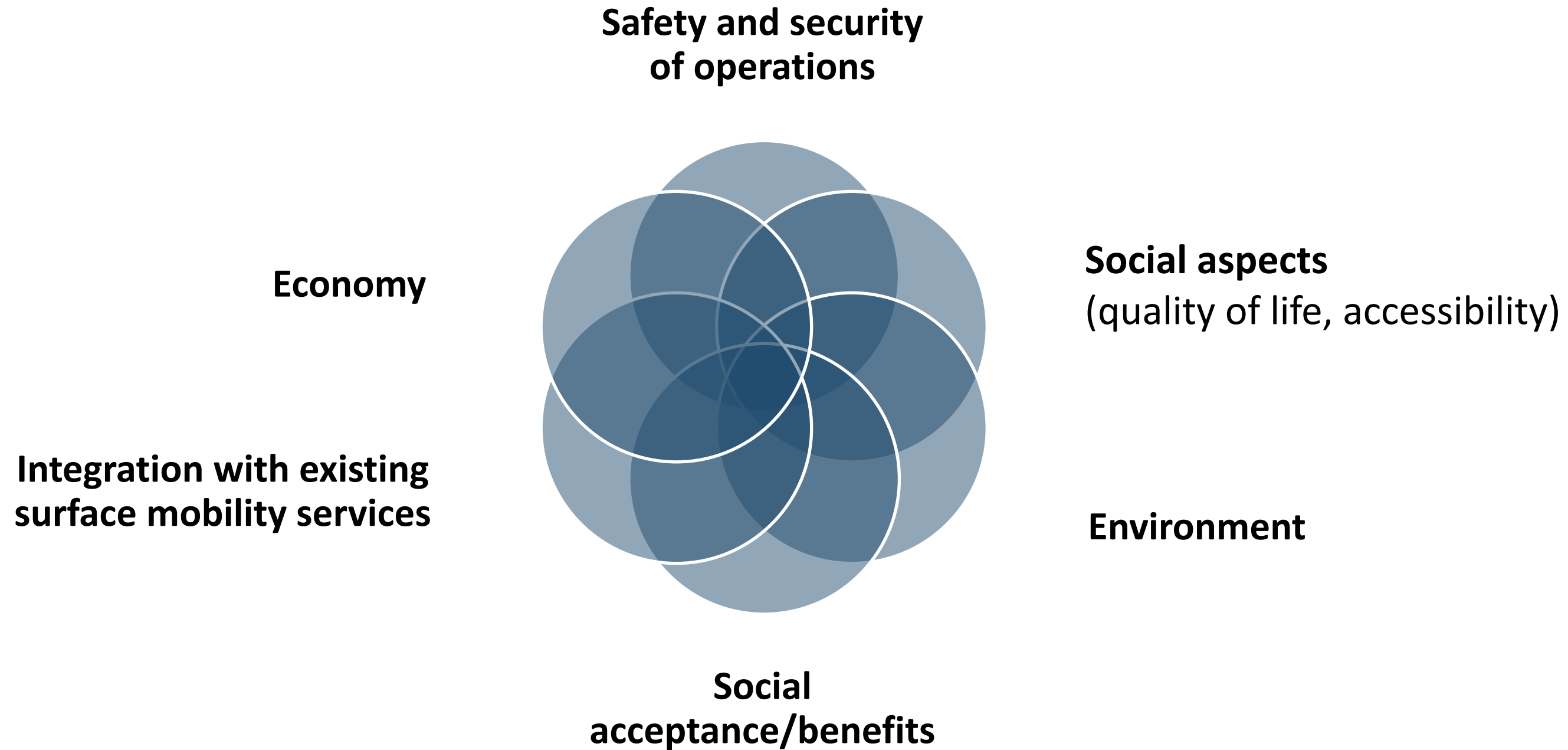
- **UAM indicator 6**

- **UAM indicator 7**

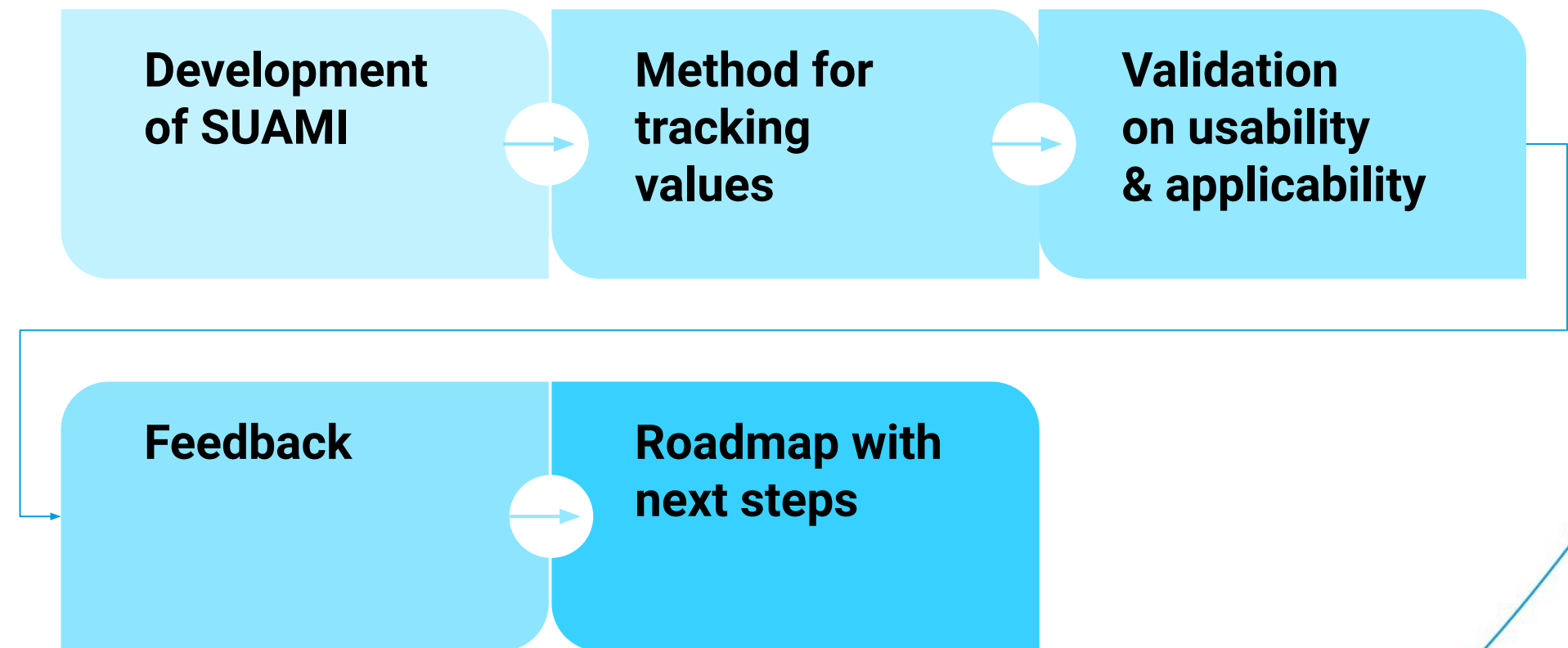
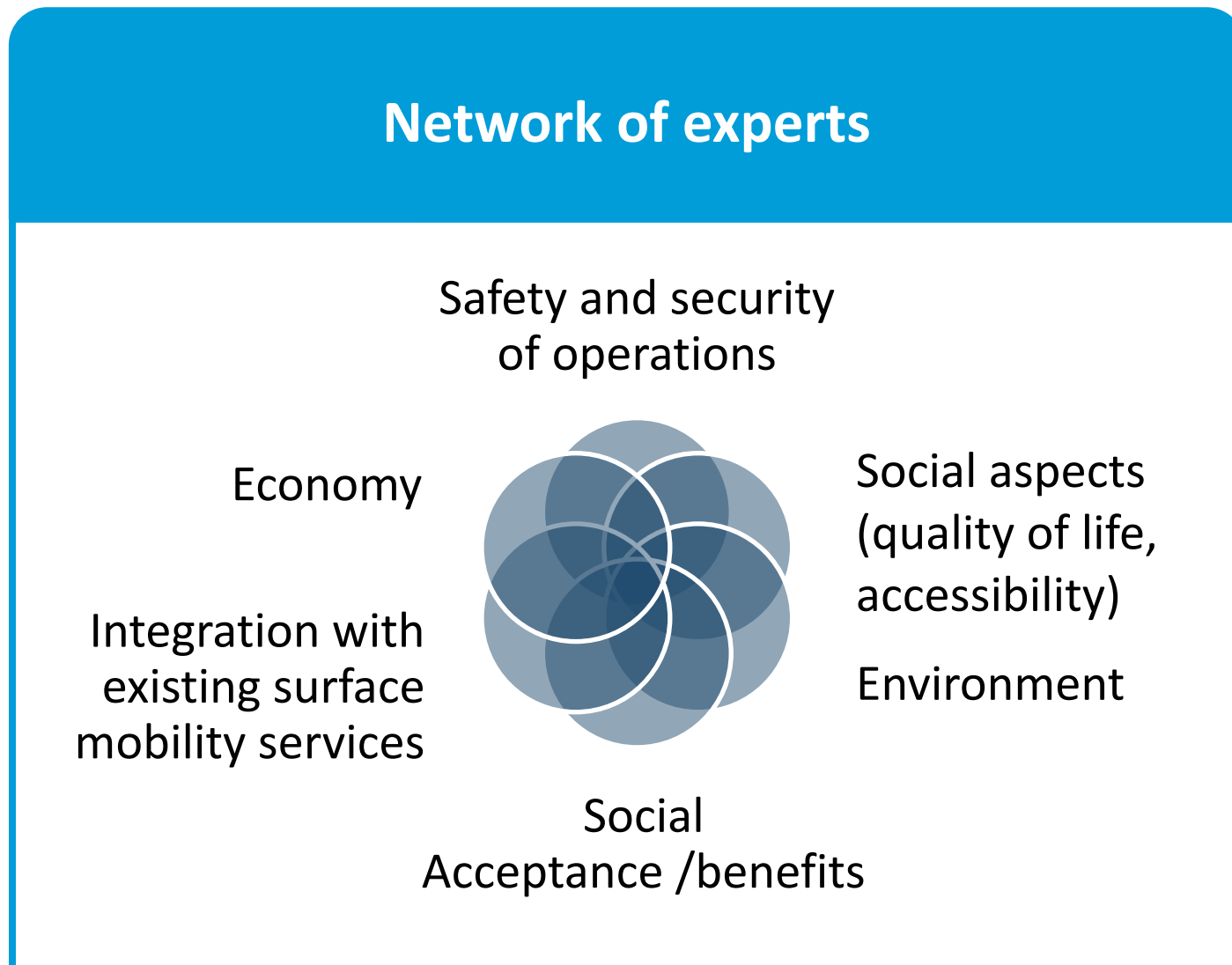
SUMI

Dimensions

Passenger and Freight



But how?



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THANK YOU FOR YOUR ATTENTION

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