



URBAN MOBILITY
INNOVATION INDEX



The Urban Mobility Innovation Index (UMii) provides insight into urban mobility and innovation in cities across the world, uncovering city data and unlocking its value to better inform decision-making.

From assessing the maturity of city innovation ecosystems, UMii seeks to empower city leaders to implement urban mobility policies and measures that enable innovation, and promote knowledge sharing and dialogue.

UMii is the first index focusing on innovation in urban mobility.

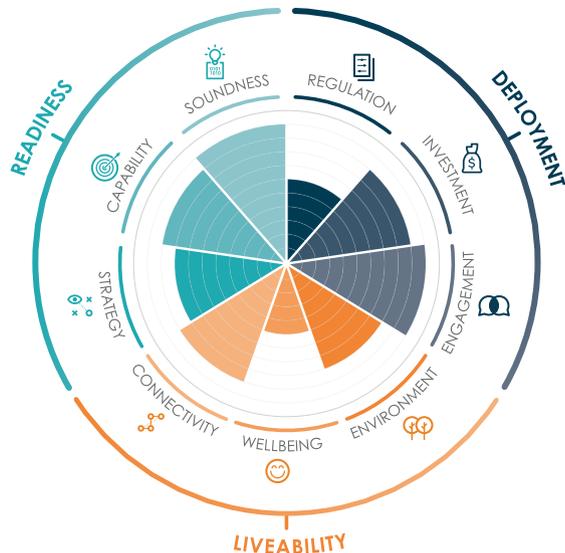
UMii is a project sponsored by the Roads & Transport Authority of Dubai (RTA) and implemented by UITP in partnership with Future Cities Catapult.

هيئة الطرق والمواصلات
ROADS & TRANSPORT AUTHORITY



UMii Framework

Rather than scoring and ranking cities competitively, UMii looks at challenges and opportunities across three **dimensions** – Readiness, Deployment, Liveability – that capture elements of the different stages of innovation.



Housed within each dimension there are three innovation **levers**, a combination of policy features that can be acted upon at city level to drive urban mobility innovation.

Each lever expands into **indicators** that measure how well cities are performing in specific domains.



UMii has been tested in 30 cities worldwide, a well-balanced representation of innovation ecosystems with a wide spectrum of transport systems, governance models and economic development stages.

“UMii is ground-breaking. There are few indexes dedicated to urban transport, and none that specifically measure cities’ capacity to foster and implement innovation in this sector.”

Tim Moonen, Intelligence Director
at the Business of Cities.



Does the city have a grounded view of how to approach innovation and the capability to deploy it?



Strategy investigates how city stakeholders look at innovation in urban mobility, uncovering the underlying drivers for the strategy, the process to achieve a common vision, and who takes the ownership of the strategy.

Strategy also explores the foundations of the work, assessing how well informed the process is and whether the strategy is translated into specific SMART (Specific, Measurable, Attainable, Relevant, Time-bound) actions.

Under this lever, we look at:

- Innovation strategy readily available
- Comprehensiveness of the strategy
- Means to execute and monitor the strategy



Capability looks at how the city builds internal capacity to support innovation and leverages on skills and capabilities of external stakeholders.

To assess how open the city is to experimentation, capability investigates the maturity of the open innovation ecosystem by looking at the type of environment the city creates to enable innovation to take place in real conditions, and how distant it is from becoming a living lab.

Under this lever, we look at:

- Internal capacity to support innovation
- Skills and capabilities leveraged to drive innovation

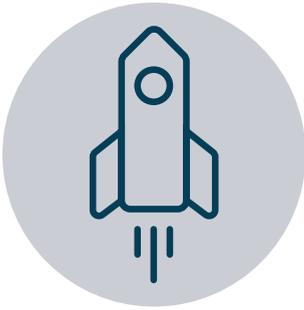


Soundness focuses on data as a catalyst for innovation, exploring how the city is harnessing data to inform the strategy as well as how it is encouraging the use of data both internally and externally to support the development of new and improved mobility solutions in the city.

Soundness explores the maturity of the processes adopted to collect mobility-related data, as well as data beyond traditional transport information (investigating the intersection of the transport sector with non-traditional areas that might have an impact in mobility). Strategy also explores how open and usable the data collected is.

Under this lever, we look at:

- Maturity of data collection
- Data accessibility
- Data usability



How effectively does the city enable innovation to be deployed?



REGULATION

Regulation investigates how the city is looking at non-financial barriers that prevent innovation from taking place in the city, and the extent to which it uses the powers available to address those obstacles.

Regulation also looks at how changes in the regulatory environment have impacted the creation of new business models.

Under this lever, we look at:

- Market barriers to innovation
- New business models emerged



INVESTMENT

Investment focuses on how risk averse the city is and what the level of financial resources committed is to support R&D projects in urban mobility.

Investment also assesses the type of incentives to third-party innovation and how the city leverages investment to multiply the funds available.

Under this lever, we look at:

- Own investment
- Attracting investment



ENGAGEMENT

Engagement explores how the city engages and interacts with its users (citizens, commuters, tourists, businesses) and how the city acts upon users' insights to inform decision-making, improve local services and drive local innovation.

Engagement also looks at how data regarding user experience of mobility services in the city is collected, and how the information is then used to understand the needs and preferences of city users to inform decision making, improve local services and overall drive local innovation.

Under this lever, we look at:

- User engagement
- Data collection
- Communication and information provision



How well is the city performing when it comes to liveability?

CONNECTIVITY

Connectivity investigates how integrated the transport system is, both at the physical and digital dimensions.

Connectivity looks at assessing the quality of the journey experience based on how barrier free and easy the transport system is to navigate.

Under this lever, we look at:

- Seamlessness
- Usability

WELLBEING

Wellbeing explores how the city is performing in terms of easiness of choosing healthy and responsible mobility options by exploring the spectrum of options offered to the users and their travel habits.

Wellbeing also looks at road safety, accessibility and equity of the system as a proxy for happiness.

Under this lever, we look at:

- Quality of life
- Fairness
- Sustainable and healthy mobility

ENVIRONMENT

Environment looks at two key environmental pressures to assess the performance of the city, and its progress regarding energy consumption as a marker for environmental sustainability and air pollution.

Under this lever, we look at:

- Air Quality
- Energy Consumption

BEYOND THE FRAMEWORK



UMII OUTPUTS

The findings of the project will be published in a report available online, as well as a Policy Paper with recommendations for decision makers on how to improve innovation ecosystems for urban mobility.



UMII FORUM

A community of city stakeholders that engage in constructive conversations to initiate inter-city cooperation, either online or at dedicated events.

The UMii Forum has a LinkedIn group that connects urban mobility stakeholders from around the world, enabling knowledge exchange between cities.

Cities can join the UMii Forum via our website.

UMii Fora:

- November 2016 in Dubai
(during the UAE Innovation Week)
- May 2017 in Montréal
(during the Global Public Transport Summit)

MORE INFO

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