UN-Habitat
Overview of UN-Habitat’s activities on Sustainable Urban Mobility and Digital Technologies

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1. General Introduction to UN-Habitat and Sustainable Urban Mobility

2. Approaches for Digital and Smart Technologies

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General Introduction
to UN-Habitat and Sustainable Urban Mobility
VISION & MISSION OF UN-HABITAT

VISION
“A better quality of life for all in an urbanizing world.”

MISSION
“UN-Habitat promotes transformative change in cities and human settlements through knowledge, policy advice, technical assistance and collaborative action to leave no one and no place behind.”

Make cities and human settlements inclusive, safe, resilient and sustainable
UN-HABITAT: PRESENCE IN THE WORLD

World Presence (**as of 2019)**
UN-HABITAT: PROJECTS IN CENTRAL ASIA

Building Presence in the Region!

Integrated Spatial Plan for Environmental and Socio-Economic Resilience

Khorog, Tajikistan

Spatial Analysis: risk profile and existing assets and infra.

Transformative Vision developed through co-creation process.
UN-HABITAT: PROJECTS IN CENTRAL ASIA

Building Presence in the Region!

Integrated Spatial Plan for Environmental and Socio-Economic Resilience

Naryn Urban Resilience Programme

Opportunities

Challenges

Spatial Analysis: Opportunities and Risks

Proposal of Concept Designs
2
Approaches for Digital and Smart Technologies
Mobility relates to myriad societal challenges. That is why, we need to take a comprehensive and systematic approach to ensure all these issues are addressed without compromising on the other.
Supporting Planning Process
Better data management and integration would streamline and planning and facilitate evidence-based decision making

Improving Transport services
Digital technologies would support smart mobility solutions that could be customized for individual needs
(App-based reservation, cashless payment, MaaS, etc)

Monitoring and Streamlining
Enabling monitoring the conditions of the traffic, or condition of vehicles would lead to optimizing the transport services.
(Traffic Management, Intelligent Transport System, etc)

Communication and user interface
Smart phones and other devices would support better information communication and enhance user experience
(Mobility Apps, information displays and transportation dashboards)

Promotion of business and other opportunities for synergy
Availability of data would open-up market for business (startups) and create other opportunities for creating synergy for better urban services

This being said.....

Digitalization/ Smart city technologies should NOT be a goal in itself, BUT a tool or an enabler for sustainable urban mobility.
UN-HABITAT'S APPROACH TO DIGITAL AND SMART TECHNOLOGIES

Smart City Playbook for Governments “Centering People in Smart Cities”

**#Technology as an Enabler**
An enabler for improving well-being and quality of life

**#People-Centered Design**
Ensure technologies are accessible, inclusive and user friendly

**#Focus on Sustainability**
Promoting the digital and smart for more environmentally sustainable city.

**#Equity and Inclusion**
Bridging the digital divide so everyone can benefit.

**#Data Governance**
Ensure safety and security of use of smart and digital technologies.


*International guidelines on people-centred smart cities (- 2025)*

UN-Habitat has been mandated to initiate the development of International Guidelines on People-centred Smart Cities through an inclusive consultative process with global experts nominated by Member States, to be developed by 2025.
5 Pillars of a People-Centered Smart City

1. Community
   Placing residents at the center of smart city development

2. Digital Equity
   Bridging the digital divide and ensure equitable access

3. Infrastructure
   Developing inclusive technological foundations

4. Security
   Protect cybersecurity as well as safeguarding the residents’ privacy and data security

5. Capacity
   Develop local governments’ skills and knowledge

Implications for transport sector

- Co-creation of mobility solutions
- Public Awareness and education
- Accessible, inclusive, and affordable transport service enabled by digital technologies
- Integration with the existing infrastructure
- Level playing field for private sector and start-ups
- Safe and secure system
- Efficient data management for evidence-based planning
3

Cases and projects on incorporating digital and smart solutions in transport
AFRICA URBAN MOBILITY OBSERVATORY: MOBILE-BASED SURVEY

Under the Africa Urban Mobility Observatory (AUMO) project, together with consortium partner GoMetro, piloted the usage of USSD (Unstructured Supplementary Service Data), a mobile communications protocol used to send text message for conducting surveys to collect mobility data.

Pilot cities in Africa

Credit: GoMetro

Visualisation on Web Portal

Credit: GoMetro

For details: https://observatory.go-africa.org/
AFRICA URBAN MOBILITY OBSERVATORY: MOBILE-BASED SURVEY

Lessons learnt from Pilot in African Cities

Opportunities

- Usage of mobile-based survey using USSD become cost-effective methodology compared to the conventional methodology (surveyors on the ground with paper), especially when going to scale.
- Flexibility for modifying survey format and ease for repeating, allowing periodic and follow-up surveys.
- No need for data entry from paper - seamless data utilization and visualisation.

Points to consider

- Need to understand the profile of mobile users and careful survey planning and implementation.
- Need for officials, planners to understand the features and constraints of the technology.

Credit: GoMetro
Digital Solutions for Public Transport: the Global Future Cities Programme in Vietnam:

**Ho Chi Minh City Smart Ticketing System**

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<th>Task 1</th>
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<td>Review and Assess Fare Policies and Ticket Technologies of Public Transport in HCMC</td>
<td>Develop Technical Standards Framework for STS for Public Transport in HCMC</td>
<td>Propose Fare Policies for Public Transport System in HCMC</td>
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<td>Propose Institutional Settings and Financial Model for the Implementation for STS in HCMC</td>
<td>Develop specifications for a Back Office System (BOS), including a Central Clearing House System (CCHS) and design, develop and implement Proof of Concept (POC) of a BOS, including CCHS</td>
<td>Design, develop and implement a pilot Willingness to Use (WTU) survey and a pilot Willingness to Pay (WTP) survey for smart ticketing and public transport in HCMC</td>
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NEW PROJECT: DIGITALIZATION OF TRANSPORT IN LATIN AMERICA

“ACCESS Project” Enhancing digitalization in urban transport accelerate shift to low carbon modes in Latin American Countries.

- Planning and design: transport optimization and air quality models to support mobility planning and electrification
- Data platform to integrate transport data (including logistics)
- Fleet tracking and dynamic route planning

Pilots & Implementation

Sub-National Policy & Plans

National Support Frameworks

Regional Upscaling
NEW PROJECT: SUSTAINABLE URBAN MOBILITY PLANNING IN WESTERN BALKANS, EASTERN EUROPE AND CENTRAL ASIA

5 Countries/Cities in Western Balkans, Eastern Europe & Central Asia

Start Date | April 2024
End Date | June 2026

Objectives

1. Capacity Development:
To strengthen the capacity of local and national governments to plan sustainable, resilient and low carbon mobility systems

2. Policy and Planning Framework:
To improve the policy and planning frameworks for integrated land use and mobility planning

* References to Kosovo in this Document shall be understood to be in the context of Security Council Resolution 1244 (1999).
UN-HABITAT: SUPPORT FOR SUSTAINABLE URBAN MOBILITY

UN-Habitat’s Value Proposition

- Research and Knowledge Hub
- Fostering Participation
- Capacity Building
- Advocacy and Partnerships

Enable, Empower, Engage

Cross-cutting and normative support

- Empowering women in transport sector
- Ensuring safety and inclusivity
- Support Evidence-based decision making

Avoid – Shift – Improve Framework

- Avoid: Avoid and reduce the need for motorized travel
- Shift: Shift to more environmentally friendly modes
- Improve: Improve energy efficiency of transport modes

Ensuring safety and inclusivity
Thank you!

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Urban Mobility Expert | Urban Mobility Team
Urban Basic Services Section
Urban Practices Branch | Global Solutions Division
When
4 - 8 November 2024

Where
Egypt International Exhibition Centre

Who
Over 20,000 participants expected in person and virtually

CAIRO, EGYPT | 4–8 NOVEMBER 2024
#WUF12

Theme

It All Starts at Home

Local Actions for Sustainable Cities and Communities

The Background Paper is already available.
The WUF12 theme “It All Starts at Home: Local Actions for Sustainable Cities and Communities” is supported by six dialogues, each exploring a different dimension of the theme.

1. Housing our future
2. Cities and the climate crisis
3. Stronger Together
4. Financing localization and localizing finance
5. Putting people first in a digital era
6. The loss of home
Urban Expo

Deadline for Urban Expo 31 July 2024
A platform for Member States and stakeholders to share knowledge, build capacity, network and explore solutions.
- **NEW:** Urban Expo testing grounds
- **NEW:** Special awards for innovative, engaging, and sustainable proposals.
- **Pre-built stands** – rates coming soon
- **Empty floor space** (raw space) rates coming soon
- **Complimentary stands** – LDCs on first come first serve basis.
See you in Cairo
Thank you!

Questions? Contact us at:

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