

# E-Mobility

Terms of Reference (June 2022)

## **Working Group Leads: Transformative Urban Mobility Initiative (TUMI) and Union Internationale des Transports Publics (UITP)**

### **Context**

Since SuM4All was launched in 2017, the Membership was organized in “Working Groups (WG)”. This model proved to be an effective way to pull together knowledge and expertise and develop products that would have been more complex to produce if done by a single organization. Since its inception, the E-Mobility WG continues to engage in global advocacy and agenda-setting activities for sustainable e-mobility. Currently, the working group is running in its second phase.

### **Objectives**

Overall, the WG sets out to stimulate the discussion and the understanding in the broader field of electric mobility through the implementation of solutions and approaches for change on the ground. Building on the work completed in the 2020-2021 workplan year, the WG will undertake the following activities for the 2022-2023 workplan year.

#### **1. Case studies (publication)**

The WG seeks to bring the paper “Sustainable E-Mobility – Building Blocks and Policy Recommendations” (2021) into action by piloting the implementation of the recommendations in various partner countries in the global south. Valuable insights from implementation activities should be fed back into international agenda-setting discussions. This will facilitate innovation and ensure learning in all tiers of government and relevant institutions. Piloting the paper, the WG focuses in its 2<sup>nd</sup> phase on the practical implementation of the e-mobility solutions in the following selected cities:

- Cuenca, Ecuador
- Nairobi, Kenya

TUMI supports both cities in advancing the use of e-mobility solutions in order to improve their overall transport systems. This includes developing integrated e-mobility strategies and the introduction of electric buses at the city level. With this engagement, the WG aims to show the practical applicability of the WG paper’s recommendations in real-world cases.

#### **2. Decision making tool for e-mobility investments (publication)**

In addition to the case studies, the WG aims to develop a solid “decision-making tool” for e-mobility investments. The “decision-making tool” will be an easily accessible and understandable tool that will display the full breadth of e-mobility investment alternatives (such as e-bicycles, e-buses, e-cars, e-taxis etc.) and support with clear recommendations regarding investment prioritizations. The objectives of this tool are the following:

- Provide insights into the potential benefits and applications of electric mobility
- Offer recommendations to decision makers on the best opportunities and solutions for electric mobility investments
- Provide understanding for investment prioritization in the context of e-mobility projects and e-mobility infrastructure

### **3. Position Paper: “Electric Mobility and Renewable Electricity – Developing Infrastructure for Synergies (publication)**

The objective of the position paper, aimed to be prepared for COP27 is to provide insights into the potential benefits and applications of renewable electricity to power road and rail transport with adequate infrastructure; discuss challenges and opportunities for policy and investments to develop sustainable electric mobility and (renewable) electricity supply, while considering impacts on energy security. The paper will be developed subject to resources and in cooperation with Energy & Mobility WG.

#### **Expected Outputs**

The following Outputs will be developed within the workplan phase 2022-23.

- 1. Case study on e-mobility implementation in Nairobi, Kenya**
- 2. Case study on e-mobility implementation in Cuenca, Ecuador**
- 3. Decision making tool for e-mobility investments as a 1-page poster (online/ print)**
- 4. Position Paper: “Electric Mobility and Renewable Electricity – Developing Infrastructure for Synergies”**

#### **Expected Outcomes**

- Advocacy and agenda setting on e-mobility.
- Showcasing replicability and policy making opportunities by displaying successful case studies.
- Acceleration of systemic and integrated approach to e-mobility and renewable energy adoption.
- Increased awareness and improved skills from national and local authorities/stakeholders.
- Enhanced knowledge and best practices dissemination and usage.
- Exploration of cross-sectoral synergies.

#### **Impact**

This work will be valuable to those involved in establishing, expanding, or improving e-mobility projects and action schemes: national/local decision makers, practitioners in the field including international

development organizations' technical teams, and others. SuM4All members will also benefit, as they have direct responsibility for the design and deployment of projects in the transport sector and they do work on e-mobility and renewable energy at regional, national, and local level. Through this work, we hope to provide guidance for better decision making in the adoption of sustainable e-mobility systems as an important puzzle piece for sustainable mobility for all.

### Timeline

- February 2022
  - Kick-off phase II
- February 2022 – March 2022:
  - Initial coalition building at SuM4All Consortium Meeting
  - Orientation/ production of people-oriented organizational decision making
- March 2022 – August 2022:
  - Generate the Key Knowledge
  - Draft concept notes for deliverables
- July – October 2022:
  - Knowledge analysis and recommendation processes
  - Draft of decision-making tool
  - Layouting
  - Clearance process with SuM4All Steering Committee
- October 2022 – January 2023:
  - Innovation and learning dissemination (during the COP 27 and/or the Transforming Transportation conference in January 2023)
  - Launch of case studies
- January 2023 onwards
  - Presentation of cross sectoral publication

### Working Group Members

Agence Française de Développement (AFD), European Cyclists' Federation (ECF), Federal Ministry for Economic Cooperation and Development (BMZ), Fédération Internationale de l'Automobile (FIA), FIA Foundation, International Union of Railways (UIC), International Civil Aviation Organization (ICAO), International Federation of Pedestrians (IFP), Islamic Development Bank (IsDB), KfW, National Capital Commission (NCC), Sustainable Transport Africa (STA). SLOCAT Partnership, Transformative Urban Mobility Initiative (TUMI), Union Internationale des Transports Publics (UITP), United Nations Economic Commission for Europe (UNECE), World Bank (WB), World Resources Institute (WRI)