Aligning Visions: Shaping a Global Tracker for Sustainable Mobility

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Urban Electric Mobility Initiative (UEMI) was initiated by UN-Habitat and the SOLUTIONS project, and launched at the UN Climate Summit in September 2014 in New York. UEMI builds on international activities in the areas of sustainable urban development, energy, and mobility and focusing on the equal access provision of urban basic services in Latin America, Asia and Africa.

The Urban Living Lab Center (ULLC) is the first Collaborating Center of UN-Habitat launched in 2022 aimed to support the co-development of capacity building formats for local authorities, planners, practitioners and entrepreneurs. ULLC is co-hosted by Massachusetts Institute of Technology (MIT), Technical University Berlin (TUB) and the Wuppertal Institute, and regional partner universities and network partners in Europe, Asia, Africa, and the Americas. The Mobility Hub of the Urban Living Lab Center is hosted by UEMI.
URBAN LIVING LAB CENTER

Capacity building for the transformation of urban mobility, energy, and resource sectors
Goal of this session

Share initial outcomes of the **STREnGth_M project** and **align visions** for shaping a Global Tracker for Sustainable Mobility
Sustainable mobility for the world

The EU-funded STREnGth_M project will **accelerate global cooperation** in research on road transport to create sustainable mobility.

Specifically, the project will outline urgent needs and capacities in innovation. It **will link European, African, Asian and Latin American markets** related to electric vehicles within existing regional and national efforts, programmes or structures while overcoming barriers in international cooperation.

The founding of a **Multiplier Group** will boost the dissemination of results and engage stakeholders.
Global progress and exchange to foster road transport research

**Exchange**
Facilitate exchange between Europe and emerging economies, particularly with those economies in Africa, Asia and Latin America

**Contribute**
Contribute to research and international cooperation agendas and roadmaps

**Cooperate**
Foster the links between international research and development cooperation projects and programmes

**Track Progress**
Track global progress and assess the impact on urban electric mobility, air quality and road safety

This project has received funding from the European Union’s Horizon Europe research and innovation programme under grant agreement No 101096253
A framework for tracking global progress of electric and sustainable mobility

- **Air Quality**
  Monitors and analyses country-level and regional air quality trends to measure the progress towards SDG 3.9.

- **Road Safety**
  Assesses traffic safety in accordance with SDG 3.6 to identify risk factors and promote safer mobility solutions.

- **Transition readiness**
  Measures factors such as transport availability, affordability and accessibility (SDG 11.2) as well as capacities and resources.

- **Electric Mobility**
  Assessment of electric vehicles and infrastructure markets to understand and foster the adoption of electric mobility.
Iterative Tracker Development

1. Phase 1 - Envisioning the Tracker
   - Defining objectives & underlying core concepts
   - Developing a theoretical framework

2. Phase 2 - Iterative Tracker Development
   - Selection of variables
   - Data treatment & analysis
   - Normalization
   - Weighting & Aggregation

3. Phase 3 - Evaluation of the Tracker
   - Uncovering the story in the data
   - Communicating results effectively
   - Analysing coherence, robustness & sensitivity of results and components
   - Ensuring quality & transparency

4. Phase 4 - Application & Dissemination

References:

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Interactive session

Instructions

Go to

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2798
2426

Or use QR code
Indicators for measuring global progress towards electric mobility

Factors to assess the EV and charging infrastructure market

- Transport sector factor: 12 indicators
- EV Vehicle market factor: 8 indicators
- EV Infrastructure factor: 10 indicators
- "EV Affordability factor (Total Cost of Ownership)" factor: 15 indicators
- Policy factor: 8 indicators
- Consumer preference factor: 6 indicators

Overall, 59 indicators
## European Alternative Fuels Observatory (EAFO) Country Insights

### Germany

#### Summary

<table>
<thead>
<tr>
<th>Population</th>
<th>Total land area</th>
<th>Highway (km)</th>
</tr>
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<tbody>
<tr>
<td>83,155,031</td>
<td>357,569 km²</td>
<td>11,348 km</td>
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</table>

<table>
<thead>
<tr>
<th>Total passenger cars</th>
<th>Alternative fuels passenger cars</th>
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</thead>
<tbody>
<tr>
<td>52,000,325</td>
<td>2,418,219</td>
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</tbody>
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#### Alternative fuels vehicles share

- **4.65%** of total fleet

EAFO vehicle registration and fleet overview

AF fleet (M1&N1)

Total number of alternative fuelled (BEV, PHEV, H2, LPG, CNG, LNG) passenger cars (M1) and vans (N1).

Growth rate AF fleet (M1&N1)

Year-over-year fleet growth rate of alternative fuelled (BEV, PHEV, H2, LPG, CNG, LNG) passenger cars (M1) and vans (N1).

EAFO National Implementation Report Target Tracker

2030 NIR target BEV + PHEV fleet (M1 & N1 vehicle category)

2030 NIR target recharging infrastructure

Expected impact to create sustainable mobility

**Track progress**
- Extensive knowledge on the global progress of innovative road transport solutions
- Can contribute to the standardisation of electric and sustainable mobility data and the reduction of data silos
- Link international cooperation activities to global impact metrics (SDGs)

**Exchange, Collaborate & Contribute**
- Accelerate the worldwide drive towards sustainable mobility
- Maximize synergies, minimise overlaps and identify gaps for the international deployment of results
- Identify existing links between the EU and emerging economies from a structural and organisational perspective towards anchoring future research agendas
- Establish long-term partnerships with development cooperation actors and relevant transport research actors
Thank you

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