urban mobility solutions
Urban Electric Mobility Initiative
Partnerships

Partners of the SOLUTIONS network, UEMI and Future Radar project
Urban Electric Mobility Initiative (UEMI)

The Urban Electric Mobility Initiative (UEMI) aims to help phasing out conventionally fuelled vehicles and increase the share of electric vehicles (2-, 3- and 4-wheelers) in the total volume of individual motorized transport in cities to at least 30% by 2030. The UEMI is an active partnership that aims to track international action in the area of electric mobility and aims to initiate local action. The UEMI delivers tools and guidelines, generates synergies between emobility programmes and supports local implementation action.

The SOLUTIONS Network

SOLUTIONS aims to support the exchange on innovative and green urban mobility solutions between cities from Europe, Africa, Asia and Latin America. The network builds on the SOLUTIONS project and brings together a wealth of experience and technical knowledge from international organisations, consultants, cities, and experts involved in transport issues and solutions. The overall objective is to make a substantial contribution to the uptake of innovative and green urban mobility solutions across the world by facilitating dialogue and exchange, promoting successful policy, providing guidance and tailored advice to city officials, and fostering future cooperation on research, development and innovation.
Urban Pathways - Delivering on the New Urban Agenda

The Urban Pathways project helps delivering on the Paris Agreement and the NDCs in the context of the New Urban Agenda and the Sustainable Development Goals. The project follows a structured approach to boost Low Carbon Plans for urban mobility, energy and waste management services, working on concrete steps towards a maximum impact in cities to global climate change mitigation efforts and sustainable and inclusive urban development.

Future Radar

Future Research, Advanced Development and Implementation Activities for Road Transport (FUTURE-RADAR) project will support the European Technology Platform ERTRAC (the European Road Transport Research Advisory Council) and the European Green Vehicle Initiative PPP to create and implement the needed research and innovation strategies for a sustainable and competitive European road transport system. Linking all relevant stakeholders FUTURE-RADAR will provide the consensus-based plans and roadmaps addressing the key societal, environmental, economic and technological challenges in areas such as road transport safety, urban mobility, long distance freight transport, automated road transport, global competitiveness and all issues related to energy and environment.

The project has received funding from the European Union’s Seventh Framework Programme and Horizon 2020 under the grant agreements no 604714 (SOLUTIONS) and no 723970 (FUTURE RADAR)
The SOLUTIONS project and the UEMI are working with cities on the implementation of sustainable urban mobility measures in the context of the New Urban Agenda. As part of urban implementation actions the team now works with cities to assess the opportunities for emobility concepts in their wider sustainable transport strategy. The current 25 cities engaged in the programme have a combined population of over 46 million people covering key emerging economies.
Example of Kochi - India

City engagement Toolkit

Factsheets on Electric Mobility
Factsheets on Transport Infrastructure
Factsheets on Public Transport
Factsheets on City Logistics
Factsheets on Integrated Planning/SUMPs
Factsheets on Network and Mobility Management
Electric Vehicle Readiness Assessment

Ecuador - Quito
Colombia - Ibagué
South Africa - Cape Town
Morocco - Casablanca
Ghana - Accra
Bhutan - Thimphu
Nepal - Kathmandu
India - Kochi
Brazil - Belo Horizonte
Brazíl
Arioli, M., Kodukula, S., Shrestha, S., Werland, S., Nationally Determined Contribution Brazil, UEMI, 2018.
Muñoz Barriga, R., Project Scoping Belo Horizonte (Brazil), UEMI, 2018.

Ecuador
Muñoz Barriga, R., EV Readiness Assessment Quito, UEMI, 2018.

Colombia
Teko, E., EV Readiness Assessment Ibague, UEMI, 2018.

Bhutan
Shrestha, S., EV Readiness Assessment Thimphu, UEMI, 2018.

Malaysia

Fiji

Nepal

China
Kodukula, S., Shrestha, S., NDC Summary China, UEMI, 2018.

India
Chaudhary, N., EV Readiness Assessment Kochi, UEMI, 2018.

Vietnam

Kenya

South Africa
Grabosch, M., EV Readiness Assessment Cape Town, UEMI, 2018.

Morocco

Ethiopia

Ghana
Teko, E., EV Readiness Assessment Accra, UEMI, 2018.

UEMI Publications


UEMI SOLUTIONS, Synergies and co-benefits of sustainable urban mobility, 2017.


Fulton, L. Lah, O., Cuenot, F. (2013) Transport Pathways towards a 2 Degree Scenario, Sustainability (Special Issue: Sustainable Cities).

SOLUTIONS Knowledge Sharing Kit

Energy use - transport modes

Belo Horizonte Energy use/yr
3- Scenarios

Energy use yr/total 2015
30.88 PJ

- 25.28 PJ/ CAR energy use yr (2015)
- 4.17 PJ/ Large buses energy use yr (2015)
- 0.66 PJ/ M2W energy use yr (2015)
- 0.74 PJ/ Minibuses energy use yr (2015)
- 0.03 PJ/ Rail energy use yr (2015)

Energy use yr/total 2050 (BAU)
41.44 PJ

- 33.37 PJ/ CAR energy use yr (2050)
- 5.03 PJ/ Large buses energy use yr (2050)
- 2.12 PJ/ M2W energy use yr (2050)
- 0.89 PJ/ Minibuses energy use yr (2050)
- 0.03 PJ/ Rail energy use yr (2050)

Energy use yr/total 2050 (2DS)
21.05 PJ

- 15.85 PJ/ CAR energy use yr (2050)
- 3.59 PJ/ Large buses energy use yr (2050)
- 1.05 PJ/ M2W energy use yr (2050)
- 0.54 PJ/ Minibuses energy use yr (2050)
- 0.02 PJ/ Rail energy use yr (2050)

Energy use yr/total 2050 (1.5DS)
13.98 PJ

- 10.72 PJ/ CAR energy use yr (2050)
- 2.40 PJ/ Large buses energy use yr (2050)
- 0.31 PJ/ M2W energy use yr (2050)
- 0.45 PJ/ Minibuses energy use yr (2050)
- 0.1 PJ/ Rail energy use yr (2050)

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