Promoting Urban Electric Mobility

Transport in action: boosting the take-up of sustainable urban mobility

Side-event at the Habitat III Regional Meeting (16 March 2016)

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The Challenges of Urbanization in the 21st Century

Growing urban population

A. Total world population: **from 7 to 9.5 billion**
   Urban population: **from 50% to 75%**
B. In 40-50 years, 3 billion more people will be urbanized
C. Increased rate of urban population growth

Climate change

A. Urban populations use more energy per capita
B. Increased total Green House Gas (GHG) emissions
C. 70% of total GHG emissions attributable to urban areas
D. Immediate need to change trends and "business as usual"

The new urban paradigm- A framework for Public Policy

1. **A more compact and better planned city**
   A. Enough public space (45-50% of land area, incl. 35% street space)
   B. Well connected street pattern (80 crossings/km^2)
2. **Adequate compactness and good design**
   A. Density (15.000 ppl/km^2, to yield vibrant street life)
   B. Well-designed and affordable buildable plots
3. **Urban mixed-uses**
   - Minimal zoning and land specialization (not exceeding 15%) to reduce mobility demand.
4. **Three-legged approach**
   - A good balance of adequate rules and regulation, urban design and financial planning.
5. **Reduced consumption of non-renewably energy and emission of Greenhouse Gasses.**

The next three years

- The UN Sustainable Development Goals Agenda
- Climate Change agreement (post-COP21 in Paris)
- Habitat III in Oct. 2016
  - First implementing conference of Post-2015 SDGs at local and municipal level

Urban Electric Mobility Initiative (UEMI)

Originating from UN Climate Summit 2014

PRESS RELEASE

CLIMATE SUMMIT 2014
CATALYZING ACTION

EMBARGOED UNTIL 11:30 AM EDT 23 September 2014

Sustainable Rail, Air, Electric Vehicles and Urban Public Transport Mobilized at Climate Summit

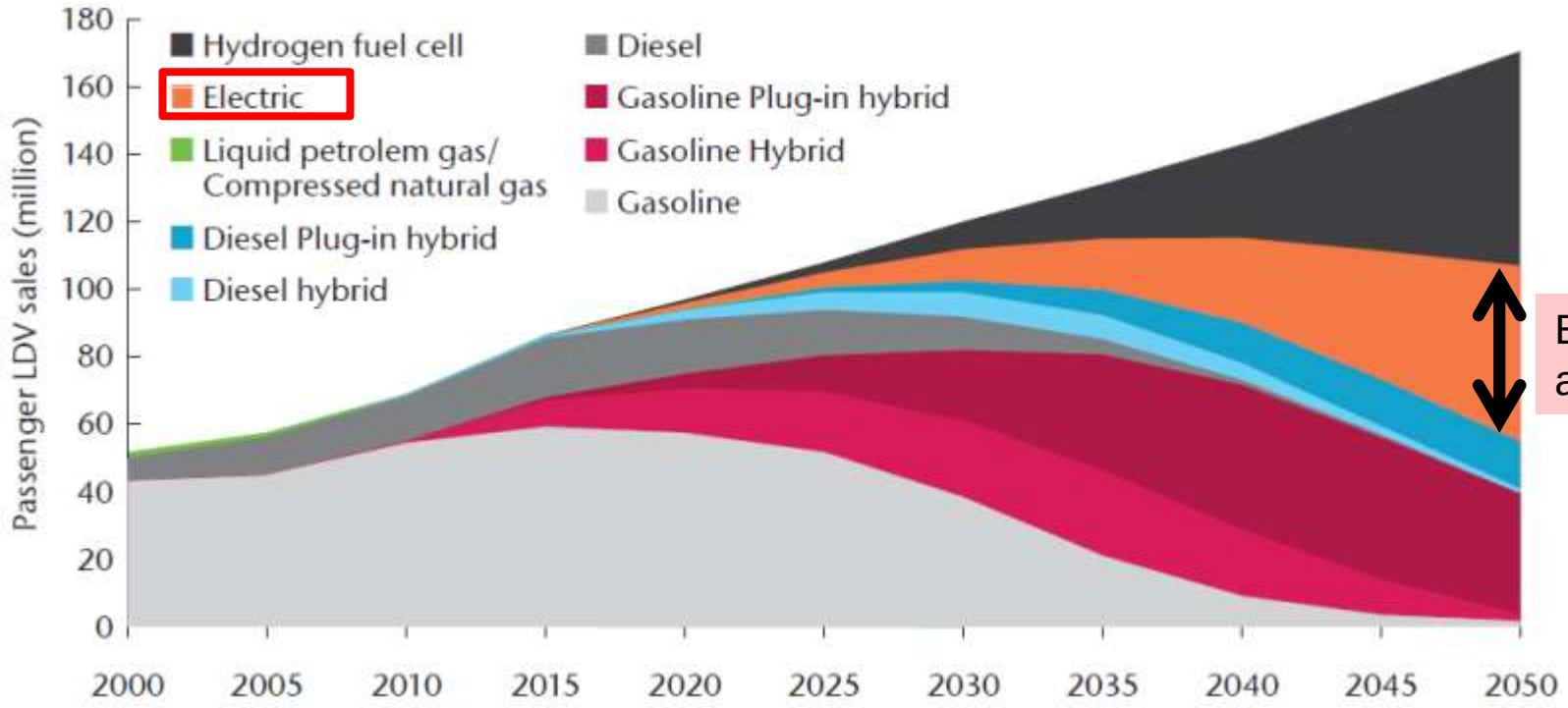
Shift to low-carbon mobility could save up to US$70 trillion in fuel costs

New York, 23 September—Four global transport alliances launched or advanced initiatives that aim to significantly scale-up proven low carbon transport technologies. Announced at today's Climate Summit, these initiatives would increase the number of electric vehicles on the road, increase the efficiency of rail transport and air travel, and provide sustainable public transportation options around the world.

According to the UN's Intergovernmental Panel on Climate Change, a shift towards sustainable transport is essential to prevent greenhouse gas emissions by transport from doubling by the middle of the century and to achieve the internationally agreed goal of a maximum 2 degrees Celsius rise in global average temperature. Transport contributes about one quarter of energy-related global GHG emissions and about one fifth of energy use. Under a 'Business as Usual' scenario, energy use and GHG emissions are projected to rise by nearly 50 percent by 2030 and by more than 80 per cent by 2050 (from 2009).

Projections of Energy Source for Mobility
- Rationale for Urban Electric Mobility Initiative (UEMI)

International Energy Agency: Light-Duty Vehicle Evolution



Elect. Vehicles are on the rise

Source: http://www.nachhaltigwirtschaften.at/e2050/results.html/id6753

UEMI Stakeholders – The Pledge

Pledge between…

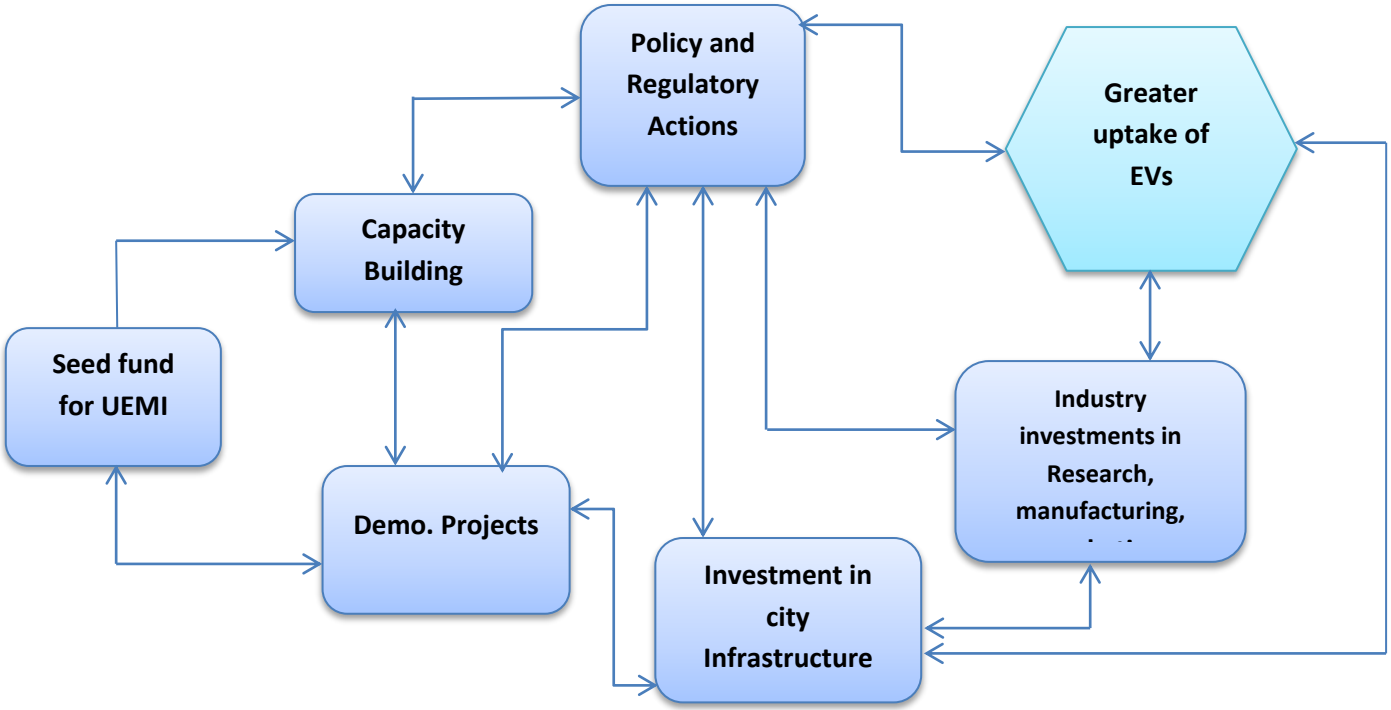
Supply Side **&** **Demand Side**

Industry :
"Increase the global market share of EV in cities to reach at least 30% by 2030."

Cities/ Governm.:
"By 2030, EVs will form 30% of the fleet of light duty vehicles (LDV), plying in their cities".

Multilateral Dev. Banks:
"Increase their investments to support cities in attaining the goal of 30% of the LDV fleet being comprised of EVs."

Operationalizing UEMI: Linking Investments, Knowledge and Policy



The Urban Electric Mobility Programme Cycle

UEMI partners

- Open to stakeholders and organisation active in the field of electric mobility
- Cooperation with other e-mobility initiatives
  - ZEV Alliance (California EPA and ICCT)
  - EVI (International Energy Agency)
  - C40 Clean Bus Initiative
  - European Green Vehicles Initiative

UEMI Actions

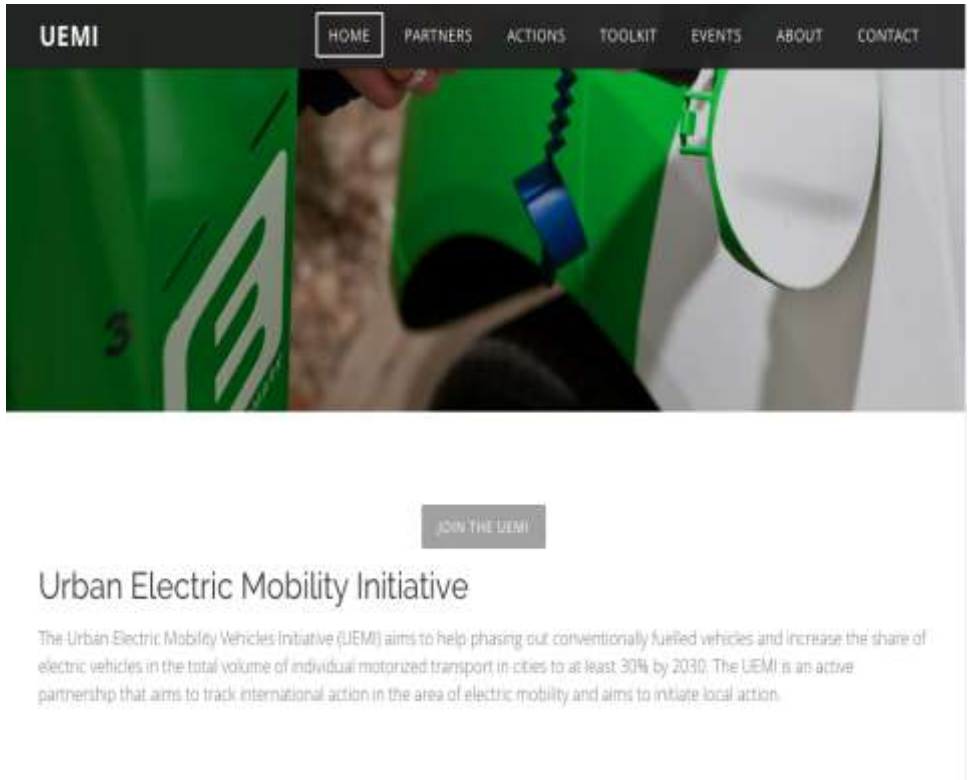
- Jointly working on implementation concepts for the integration of e-mobility solutions in a wider sustainable transport strategy (current case studies on cities in Brazil, India and China)

UEMI tool kit

- Currently planned tools and guides
  - Co-benefits for climate and air quality of e-mobility solutions
  - Integration of e-mobility with walking, cycling and public transport
  - 2-Degree Pathway tool
  - Impact assessment tool
  - UEMI can contribute local case studies to EVI publications
  - Contributions to UEMI guides based on EVI activities?

Join the UEMI

- Open to all countries, cities, industry, associations and knowledge institutions active in the area of electric mobility
- Join the partnership at: www.uemi.net
- Contribute to the actions, tools and events



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