Mitigating climate change through sustainable urban mobility

01 June 2016, German Habitat Forum 2016

Local Examples | Break | Presentation | Panel | Conclusions
Introduction

Climate Change Mitigation through Sustainable Urban Transport / Ecomobility

Monika Zimmermann, Deputy Secretary General, ICLEI
Santhosh Kodukula, EcoMobility Program Manager, ICLEI

01 June 2016, German Habitat Forum 2016, Berlin
More urban → more mobile

Increasing urbanization leads to more travel as urban people tend to travel more.

Changing lifestyles & increasing incomes → higher motorization

Photo by Santhosh Kodukula, 2011
Transport is

- Responsible for 23% of CO₂ emissions
- Road transport (incl. freight) is responsible for around 74% of these emissions
- Personal automobiles: more than 50%

We miss global figures on urban mobility CO$_2$ emissions.

Urban transport could be 5% - 8% of global CO$_2$ emissions.

But: Often, transport starts and ends in urban areas. What are then urban emissions?
Cape Town

- Years of successful climate action,
- High and growing share of transport related emissions

Continued energy growth in Cape Town, despite the absolute decline in electricity demand, has been driven by higher than business-as-usual levels of transport fuel consumption growth.

Cape Town
State of the Energy 2015 Report
Ecomobility is priority for:

- Walking,
- Cycling,
- Public transport,
- Light (e-) vehicles
- Shared mobility and
- other innovative mobility options

… in connected and integrated ways

Source: Bicycle Innovation Lab
Ecomobility: Multiple benefits and new urban development opportunities

Health and Air Quality Benefits
- Improved air reduced respiratory diseases
- Physical activity increases well-being

Economic Benefits
- Reduced congestion reduces the economic costs
- Fuel reduction will save fuel importing costs

Social Benefits
- Equity
- Accessibility
- Quality of life
Mexico City

Mexico City EcoBici Bikesharing Scheme

Nearly 2000 tons of CO₂ reduced in 5 years

Women riding bikes has increased 122%
Medellin

Public space creation as a result of new urban mobility

- Focus on improving walking and public transport has increased the quality of public spaces
- Integrated mobility (Bus, Metro, BRT and Cable Cars) has increased accessibility for citizens
San Francisco

San Francisco’s SF Park:
Parking management reducing traffic

Target setting!
• Dedicated agenda on sustainable urban mobility for our 1500 network cities
• Mobility is essential for our low carbon agenda
• Exchange among most ambitious cities: EcoMobility Alliance
• Experiencing automobile free lifestyle: EcoMobility World Festivals
EcoMobility Alliance

Enthusiastic cities with a common goal: to create and implement urban mobility strategies that prioritize people, urban quality and environment.

21 City leaders changing the way we move in cities
EcoMobility World Festival 2013

Suwon South Korea

One neighborhood, one month, no cars

Before

After

Citizens
- experience their area without cars, lesser cars
- demand new urban mobility solutions
EcoMobility World Festival 2015
Johannesburg
South Africa

Immediate impacts:
- 5x more pedestrians in the festival area
- 9.7% increase in users compared to July 2015
- 22% less private car use
- 15 min commuter time saving through managed lanes

Ecomobility exhibitions were organised to show new options to move people.
EcoMobility World Festival 2017

October 2017
You are invited!

Kaohsiung
Chinese Taipei
✓ **Recognise** “Ecomobility” and its benefits in reduction in GHG emissions

✓ Create **streets for people**

✓ Implement **immediate low cost measures**; and develop long-term financially sound ecomobility solutions

✓ **Phase out incentives** encouraging private motorized vehicles

✓ **Introduce concepts** of new and shared mobility (including car sharing, carpooling and bike sharing).

✓ **Switch to low carbon energy** vehicles, small (human-scale) light electric vehicles.

**Johannesburg Declaration on Ecomobility in Cities, 2015**
National and international framework conditions

- Modify road standards, legislation, regulation and codes to strengthen ecomobility
- Support low emissions, and soot-free vehicles
- Improve the direct access for local and regional governments to financing opportunities
- Make ecomobility a central concept in the New Urban Agenda

"Any attempt at limiting global average temperature rise to less than 2°C without including the transport sector is infeasible, and local transport actions will play an essential role in meeting national transport targets."

The Partnership on Sustainable, Low Carbon Transport (SLoCaT), Transport and Climate Change, Technical Paper, EcoMobility Dialogues, September 2015
**Ecomobility helps to reach SDGs**

People friendly instead of car-centered cities

| 3 GOOD HEALTH AND WELL-BEING | - Road safety and air quality.  
- Physical activity and well-being |
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<td>- Reducing the energy demand for transport</td>
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<td>- Encouraging vehicles and infrastructure innovation</td>
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<td>11 SUSTAINABLE CITIES AND COMMUNITIES</td>
<td>- Sustainable and resilient cities and communities</td>
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Key local action for combating climate change
We welcome

Pex Langenberg
Rotterdam, The Netherlands

Juan Martin Salazar
Medellin, Colombia

Marcelo Cabrera Palacios
Cuenca, Ecuador

Luis A. Revilla Herrero
La Paz, Bolivia

Paul Lindvall,
Linköping, Sweden

Mohlago Flora Mokgohloa
Johannesburg, South Africa
- Relevance of sustainable urban transport within your city’s policies and goals
- How mobility and transport infrastructure can be a solution to climate mitigation?
- What framework conditions would be needed to accelerate?
Safe, clean, fair and green sustainable urban mobility

Shiela Watson, Director of Environment, FIA Foundation
The FIA Foundation is an independent UK registered charity which supports an international programme of activities ... greenhouse gas emissions from the global population of vehicles which could be addressed by global policy initiatives.

Panel

- Peter Stein, Member of German Parliament and its Committee for Economic Cooperation and Development
- Shiela Watson, Director of Environment, FIA Foundation
- Pex Langenberg, Vice Mayor, City of Rotterdam, Netherlands
- Luis A. Revilla Herrero, Mayor, City of La Paz, Bolivia
- Mohlago Flora Mokgohloa, Advisor City Sustainability, City of Johannesburg, South Africa
- Marcelo Cabrera Palacios, Mayor, Cuenca City, Ecuador
- Juan Martin Salazar, Technical Infrastructure Secretary, Medellin City Government, Colombia
- Paul Lindvall, Deputy Mayor, City of Linköping, Sweden
- Santhosh Kodukula, EcoMobility Program Manager, ICLEI