

a world class african city



GREEN  
CLIMATE  
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FOUNDATION



GERMAN  
HABITAT  
FORUM  
Berlin, 1 – 2 June 2016  
URBAN SOLUTIONS



# Mitigating climate change through sustainable urban mobility

01 June 2016, German Habitat Forum 2016

**Local Examples | Break | Presentation | Panel | Conclusions**



An ICLEI - Local Governments for Sustainability Initiative



Introduction

# Climate Change Mitigation through Sustainable Urban Transport / Ecomobility

*Monika Zimmermann, Deputy Secretary General, ICLEI*

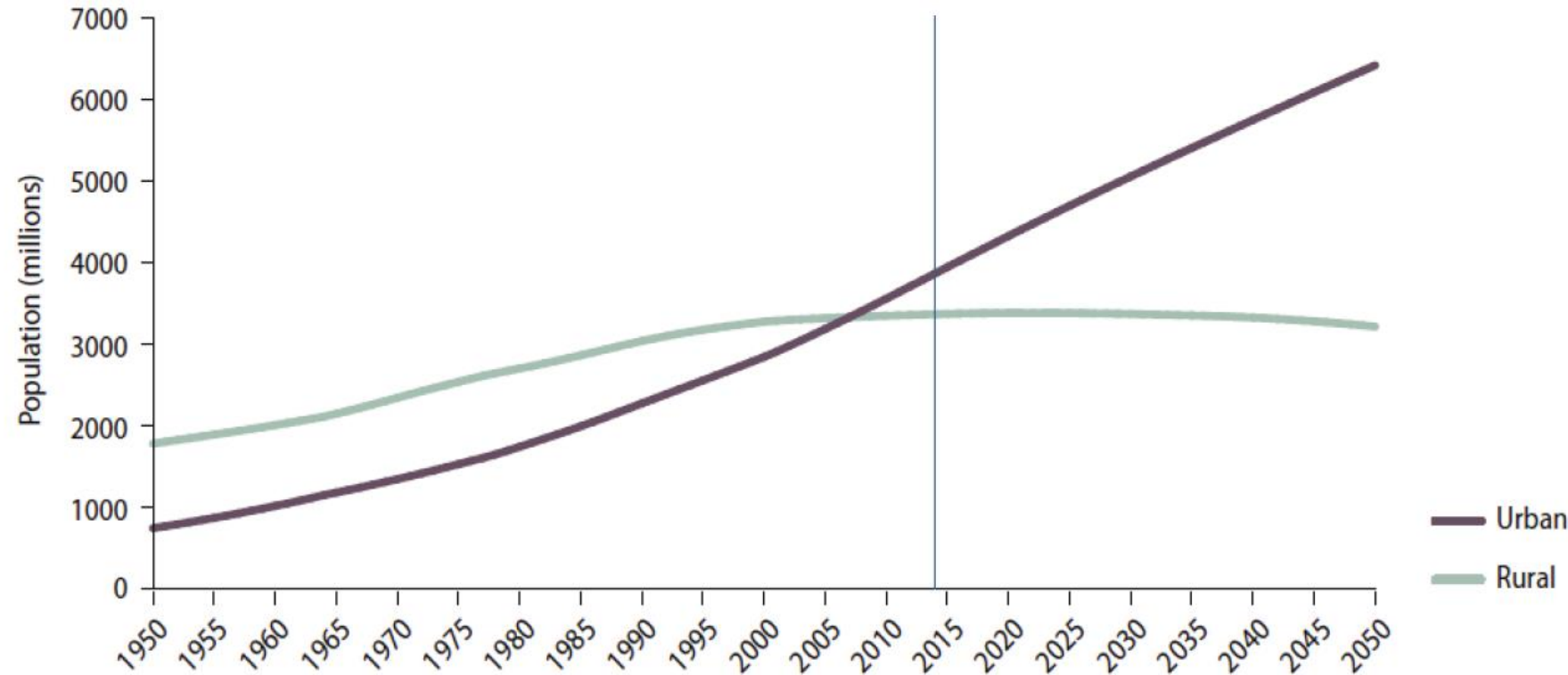
*Santhosh Kodukula, EcoMobility Program Manager, ICLEI*

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



Source: Replogle M and Fulton L, 2014, *Global High Shift Scenario: Impacts And Potential For More Public Transport, Walking, And Cycling With Lower Car Use*, Institute for Transport and Development Policy (ITDP), November 2014.



# Changing lifestyles & increasing incomes → higher motorization



Photo by Santhosh Kodukula, 2011

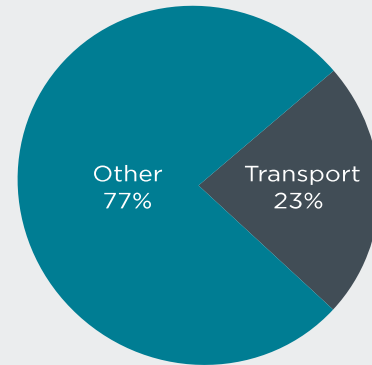
# Transport is

- Responsible for 23% of CO<sub>2</sub> emissions
- Road transport (incl. freight) is responsible for around 74% of these emissions
- Personal automobiles: more than 50%

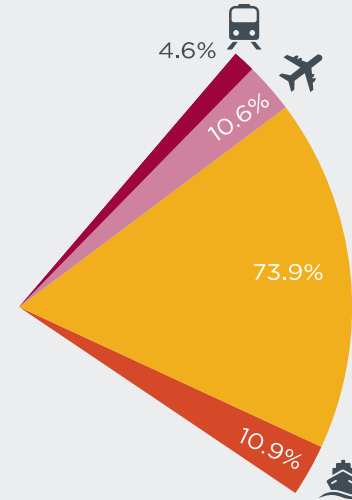
## THE TRANSPORT SECTOR

A major contributor to global anthropogenic CO<sub>2</sub> emissions

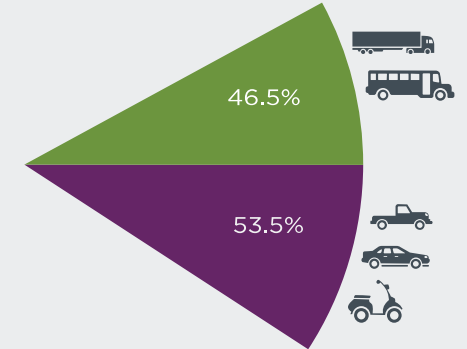
GLOBAL ANTHROPOGENIC  
EMISSIONS  
≈ 38 GtCO<sub>2</sub>



TRANSPORT EMISSIONS  
≈ 8.8 GtCO<sub>2</sub>



ROAD TRANSPORT  
EMISSIONS  
≈ 6.5 GtCO<sub>2</sub>



### LEGEND



Source: Kodjak D, 2015, Policies To Reduce Fuel Consumption, Air Pollution, and Carbon Emissions from vehicles in G20 Nations, May 2015, The International Council for Clean Transportation (ICCT)

# Urban Transport CO<sub>2</sub> emissions

We miss global figures on urban mobility CO<sub>2</sub> emissions.

**Urban transport could be 5% - 8 % of global CO<sub>2</sub> emissions.**

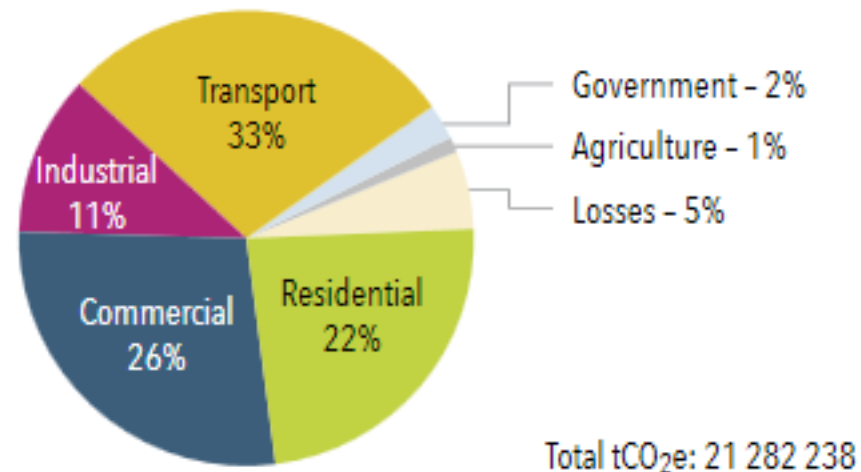
**But: Often, transport starts and ends in urban areas.  
What are then urban emissions?**

# Cape Town

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

**Figure 6: Carbon emissions by sector, Cape Town, 2012\***

\* Including aviation, international marine, electricity losses



Source: City of Cape Town, Eskom, Province, SAPIA.

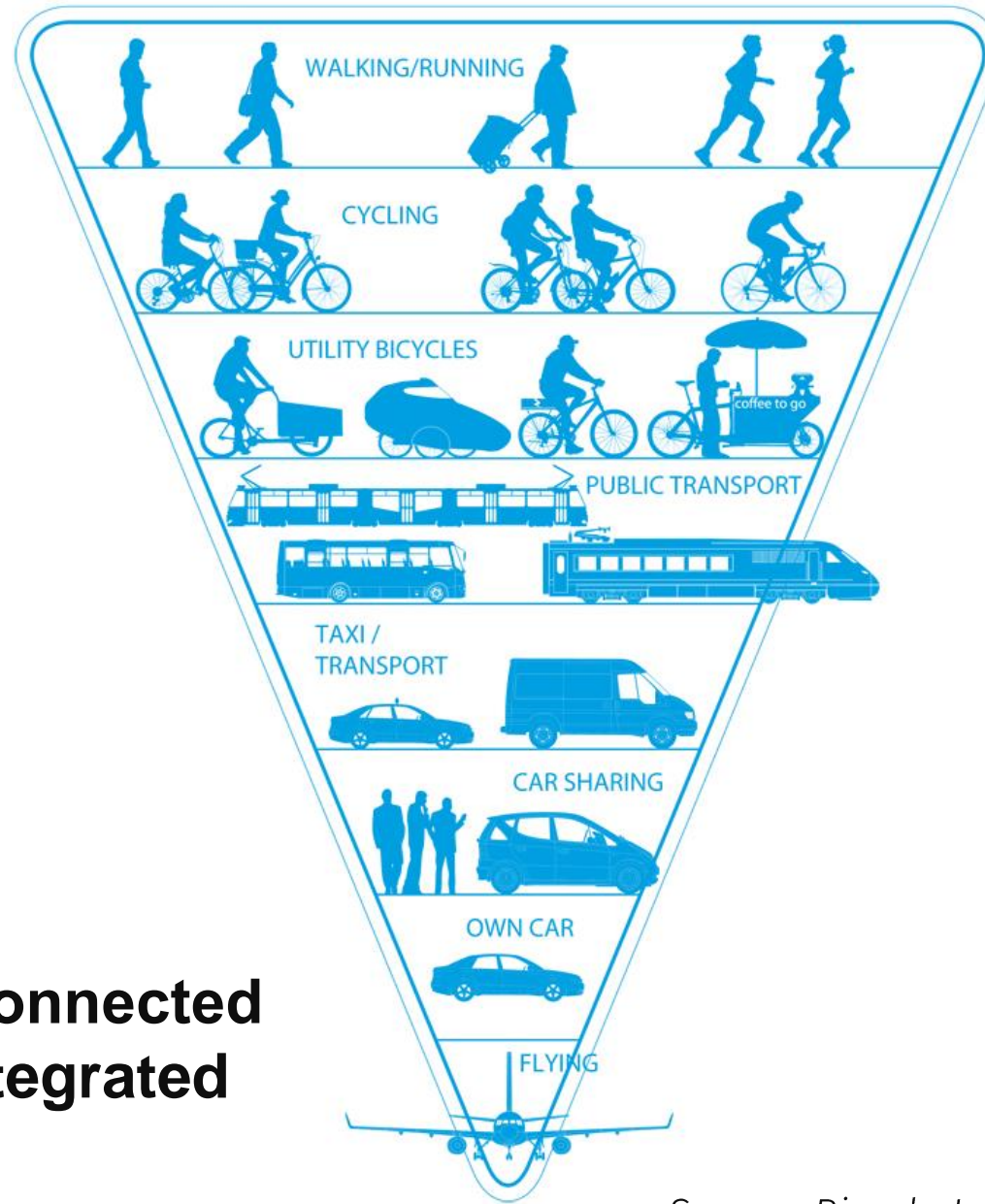
*Continued energy growth in Cape Town, despite the absolute decline in electricity demand, has been driven by **higher than business-as-usual levels of transport fuel consumption growth.***

*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**



# 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  
CO<sub>2</sub> 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!

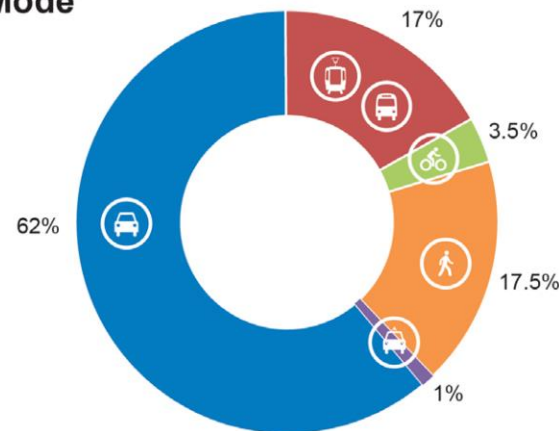
## Daily greenhouse gas emissions (metric tons)

Before vs. after

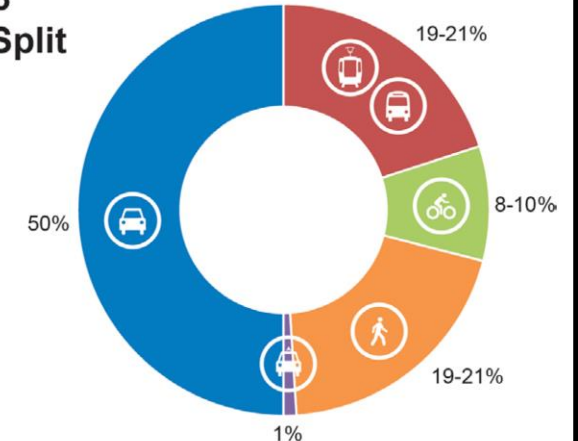
Pilot vs. control areas | Weekdays 9am to 6pm



**2011 Mode Split:**



**FY2018 Mode Split Goal:**





# ICLEI's approach

- **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*

● Alliance Cities

● Future members

# 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

**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 World Festival 2017

Kaohsiung  
Chinese Taipei

October 2017  
You are invited!



# Johannesburg Declaration on Ecomobility in Cities, 2015

- ✓ **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.



Edited version as of 29 October 2015

## The Johannesburg Declaration on Ecomobility in Cities

October 2015, Johannesburg, South Africa





# 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

**7** AFFORDABLE AND  
CLEAN ENERGY



- Reducing the energy demand for transport

**9** INDUSTRY, INNOVATION  
AND INFRASTRUCTURE



- Encouraging vehicles and infrastructure innovation

**11** SUSTAINABLE CITIES  
AND COMMUNITIES



- Sustainable and resilient cities and communities

**13** CLIMATE  
ACTION



Key local action for  
combating climate  
change

# We welcome



**Paul Lindvall**,  
Linköping, Sweden

**Pex Langenberg**  
Rotterdam, The Netherlands

**Juan Martin Salazar**  
Medellin, Colombia

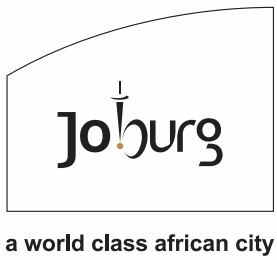
**Marcelo Cabrera Palacios**  
Cuenca, Ecuador

**Luis A. Revilla Herrero**  
La Paz, Bolivia

**Mohlago Flora Mokgohloa**  
Johannesburg, South Africa

# City examples

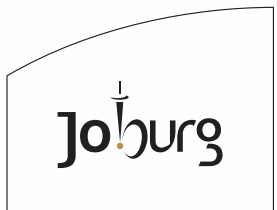
- Relevance of sustainable urban transport within your city's policies and goals
- How mobility and transport infrastructure can be a solution to climate mitigation?
- What framework conditions would be needed to accelerate?



# Safe, clean, fair and green sustainable urban mobility

Shiela Watson, Director of Environment, FIA Foundation





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## 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