



An ICLEI - Local Governments for Sustainability Initiative



## Introduction

# Cities addressing SDGs through ecomobility

*Monika Zimmermann, Deputy Secretary General, ICLEI*

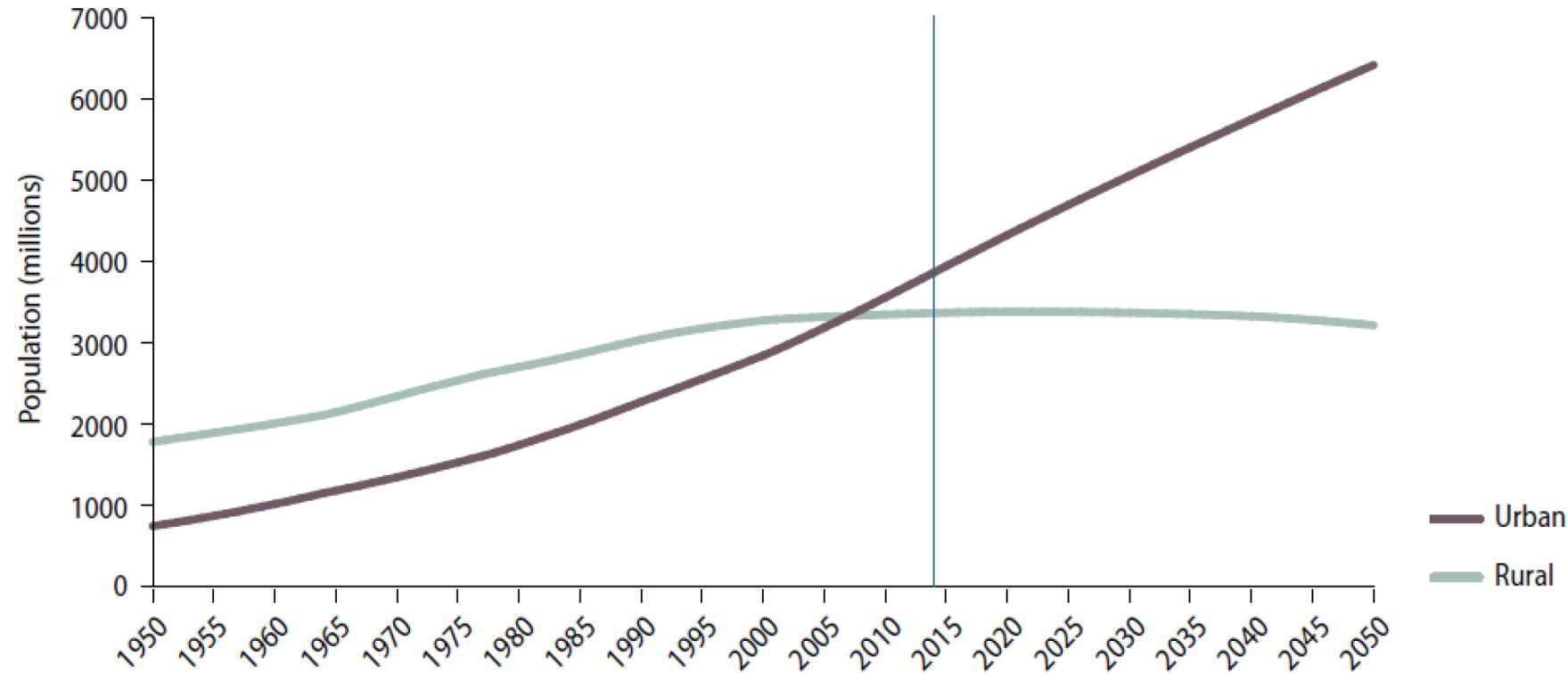
*Santhosh Kodukula, EcoMobility Program Manager, ICLEI*

16 October 2016, EcoMobility Days 2016, Quito, Ecuador



## 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.

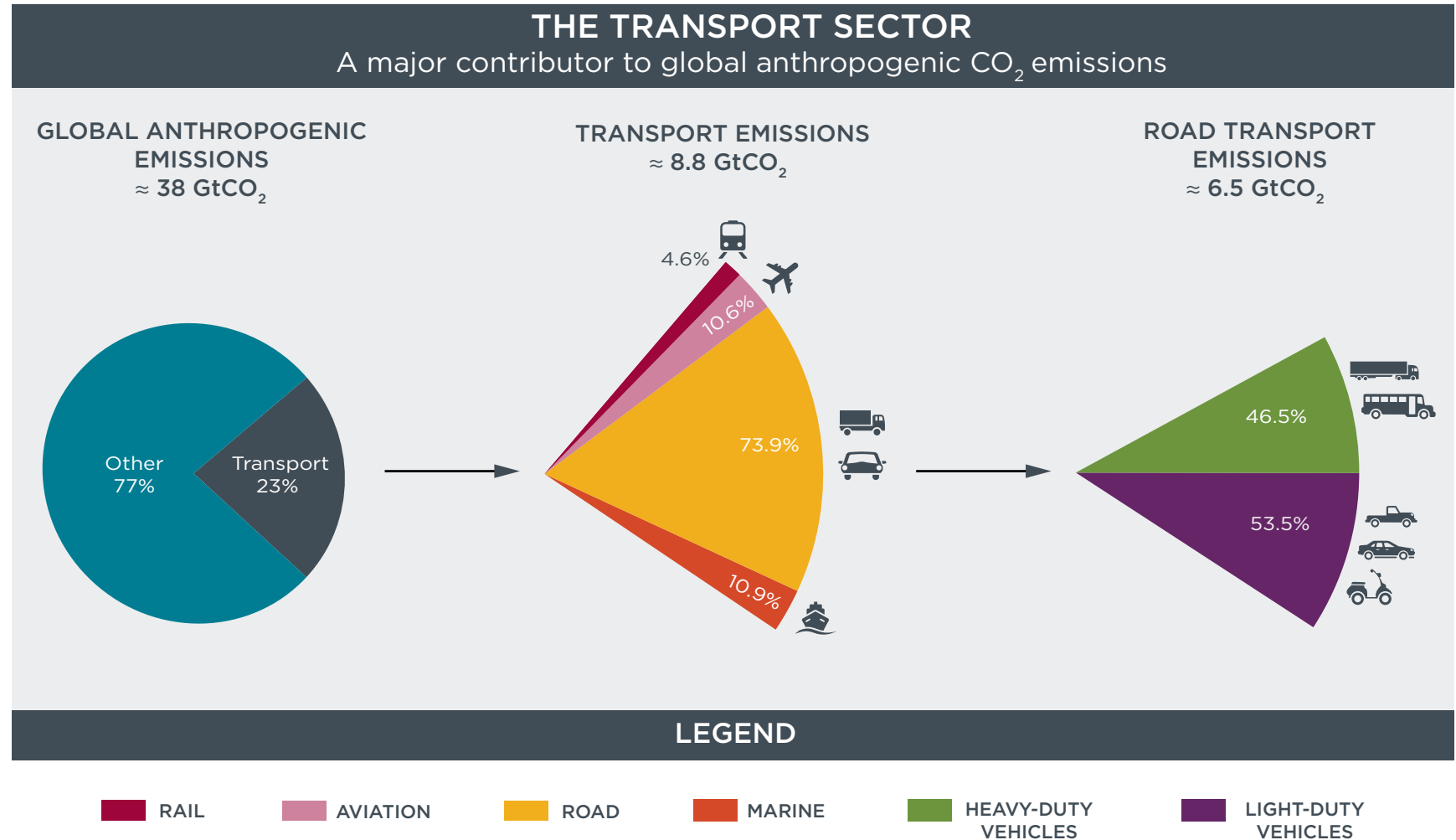
**Changing  
lifestyles &  
increasing  
incomes  
→ higher  
motorization**



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%



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

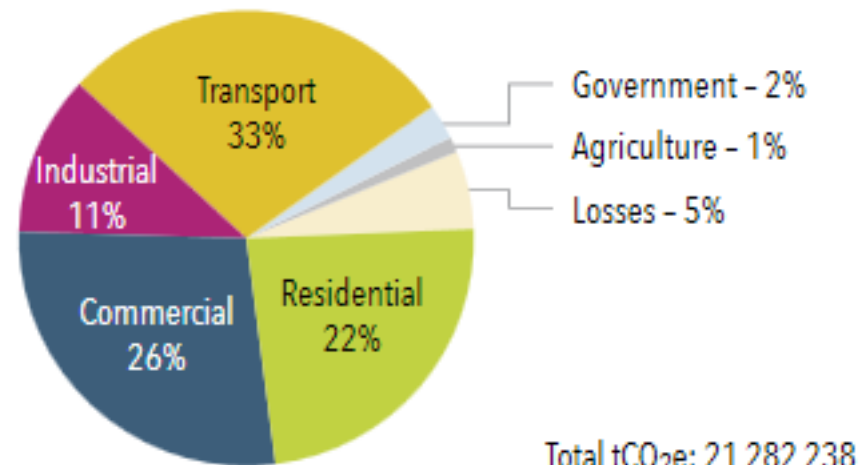
- We miss global figures on urban mobility CO<sub>2</sub> emissions.
- **Urban transport could be 5% - 8 % of global CO<sub>2</sub> emissions.**
- **But: Often, transport starts and ends in urban areas.**
- **What are then urban emissions?**

# 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

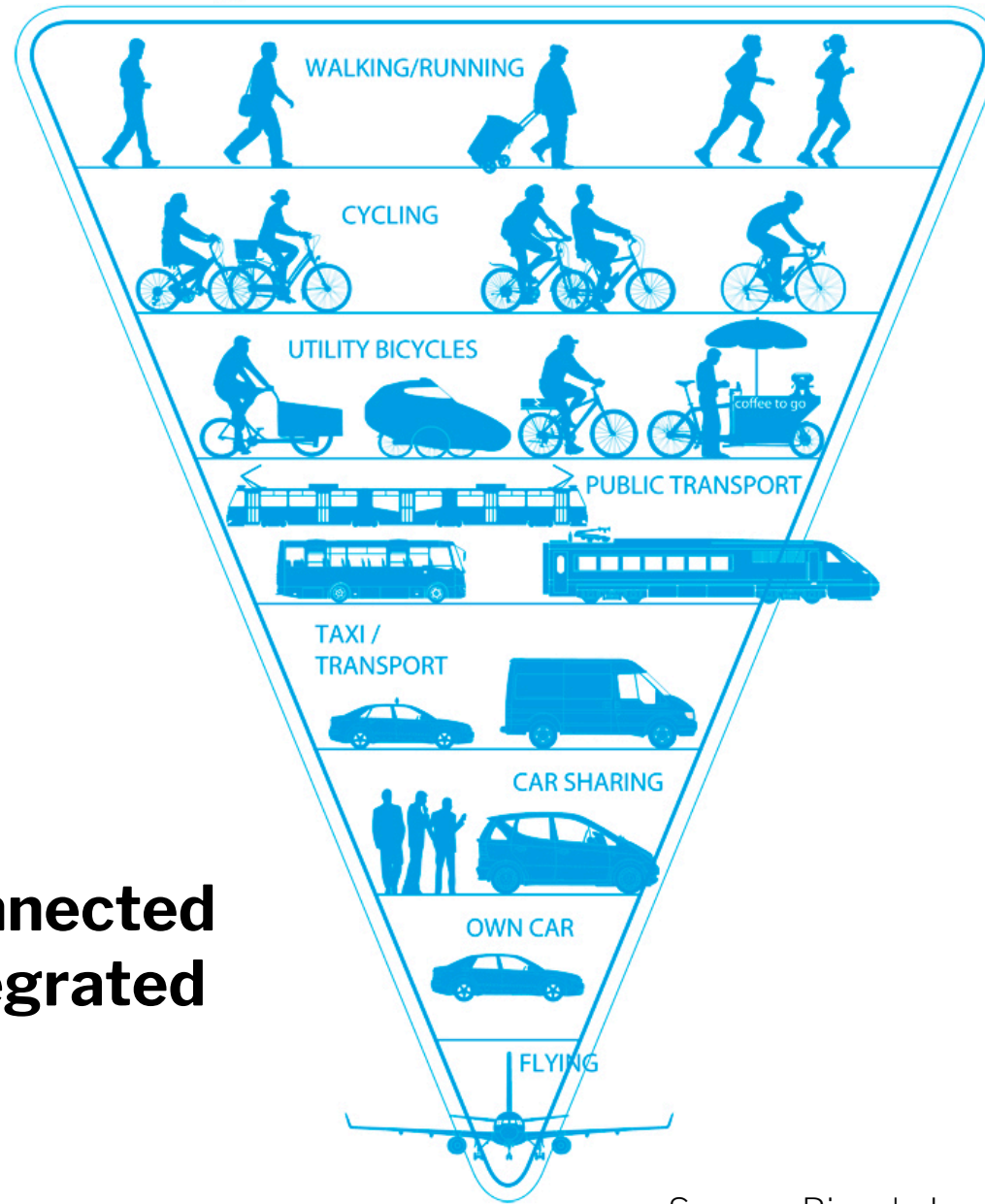
*higher than business-as-usual levels of transport fuel consumption growth.*

Cape Town  
State of the Energy 2015 Report

# Ecomobility is priority for

1. Walking,
2. Cycling,
3. Public transport,
4. Light (e-) vehicles
5. Shared mobility and
6. 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 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



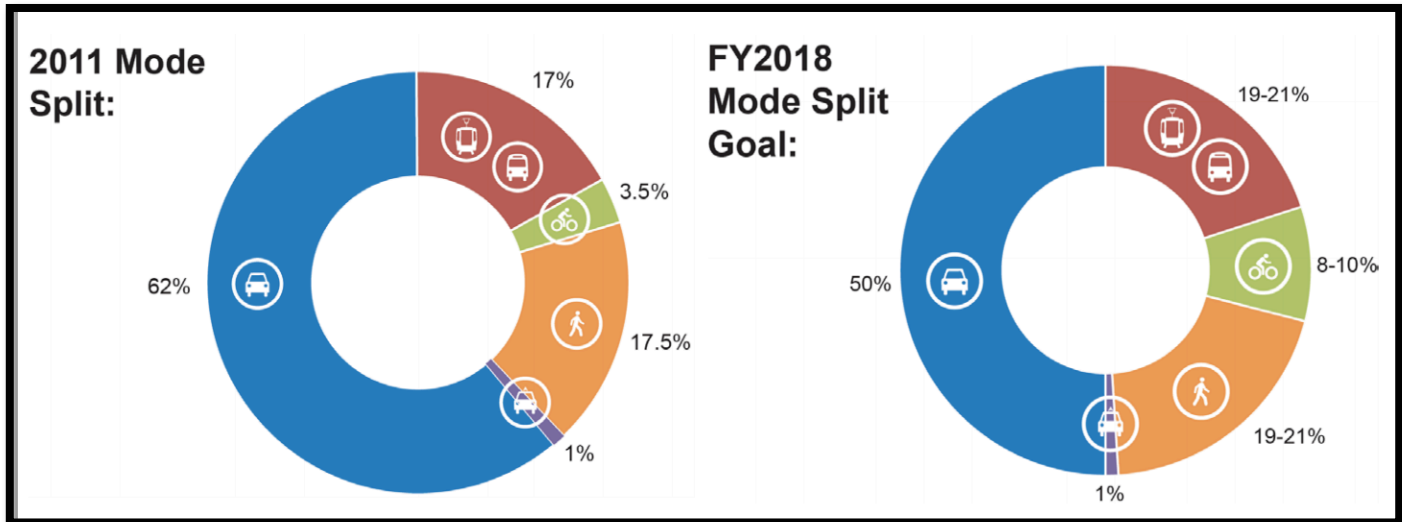
# San Francisco

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



# ICLEI's approach

## EcoMobility Agenda

- **Dedicated agenda** on sustainable urban mobility for our 1500 network cities
- There is no **low carbon** without considering mobility
- There is no **good-health and wellbeing** without considering mobility
- 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**



**22 City leaders** changing how more than **45 million** people 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

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**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

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# EcoMobility World Festival 2017 and EcoMobility World Congress 2017

Kaohsiung City

## 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

Lets encourage and support our city leaders in building people friendly instead of automobile centered cities



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**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

# Thank you!

## #emdQuito

Our EcoMobility Team will be delighted to hear from you



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