



Transformative Urban Mobility INITIATIVE

The role of EST for Developing Low Carbon Cities and Communities in Asia

Holger Dalkmann, Transformative Urban Mobility Initiative (TUMI)





Unsustainable Transport Dynamics

28% of global carbon emissions

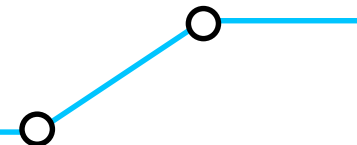
61% of global oil demand

Doubling of emissions till **2050**

[under BAU Scenarios]

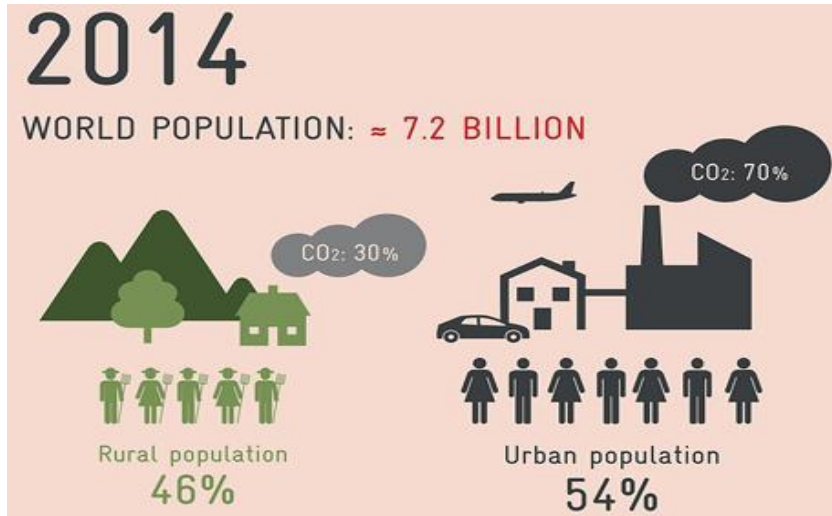
More than **10 billion** trips per day

[urban share rapidly increasing]

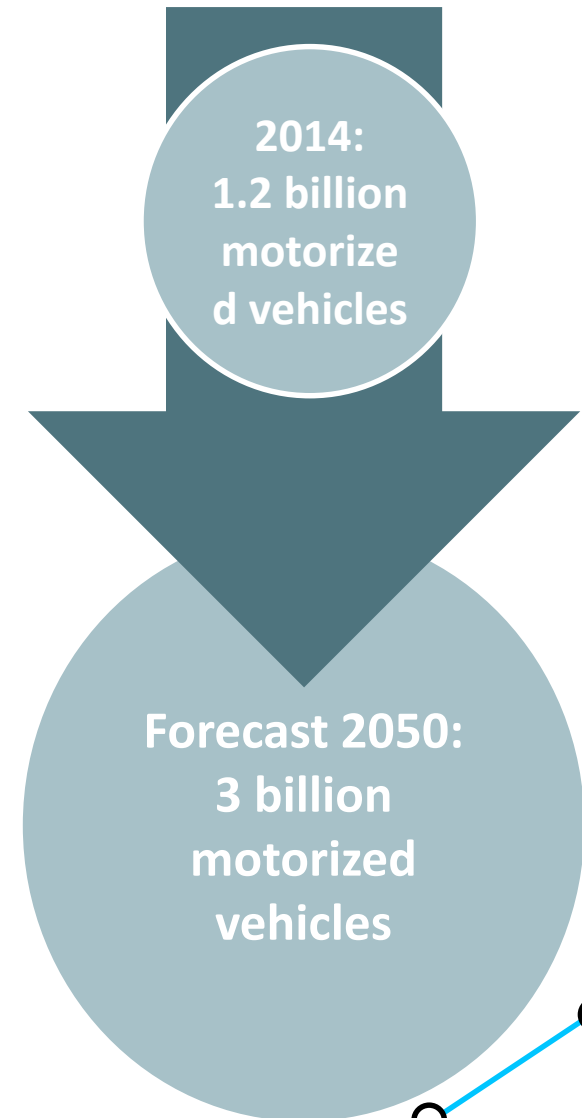
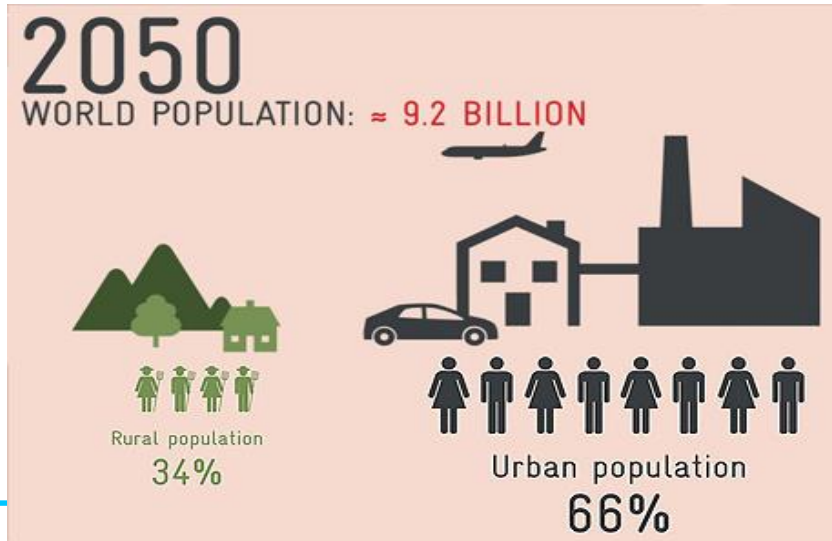


The Urban Mobility Opportunity

- In 2014, **3,6 billion** people lived in cities



- By 2050, **6 billion** people will live in cities



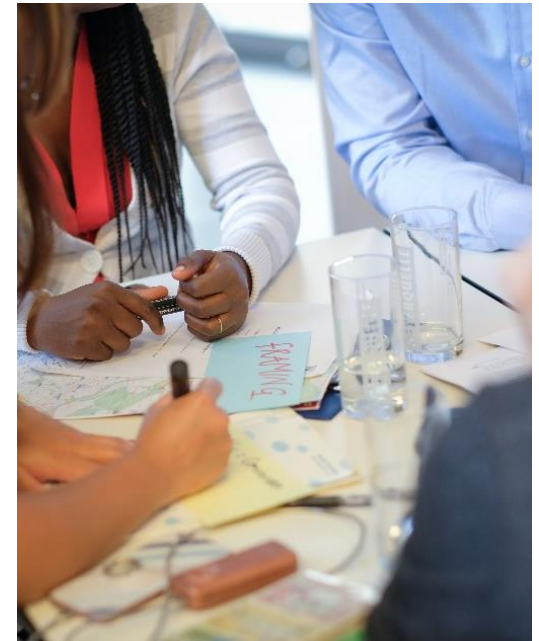
The Urban Mobility Opportunity



Compact Urban
Growth



Smart and Low Carbon
Transport
Infrastructure



Coordinated Urban
Governance: Integrated
authorities, transport
planning

The leading global **implementation initiative supporting city makers** in developing and emerging countries in the **transformation towards sustainable urban mobility.**



TUMI - A 3D Approach to Urban Mobility

Pilot Projects



- Supporting innovative pilot projects with measurable impacts
- Scalable and replicable solutions for sustainable urban mobility

1500 Urban Leaders



- Ambitious training initiative
- Supporting leaders in transformation processes
- Learning, networking, reflecting
- Promoting partnerships

Financing



- Mobilization of a total of EUR 1 billion by KfW in cooperation with other donors

All 3 pillars are closely linked and support each other.

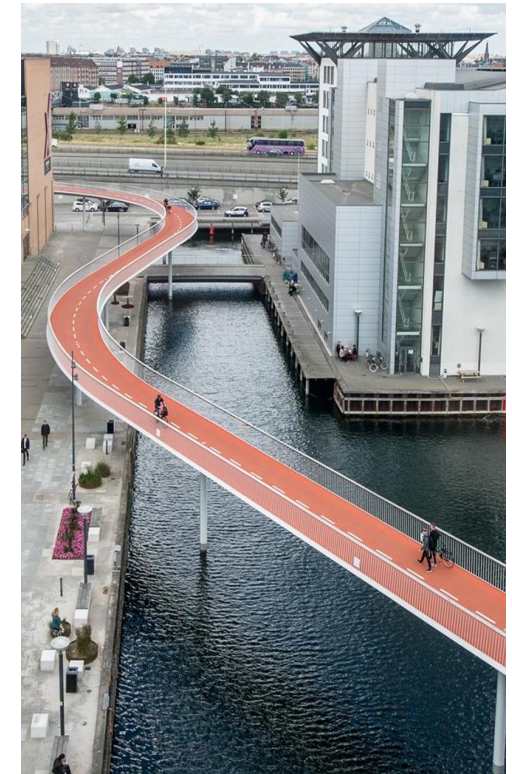
3 Global Trends which:

- Have a major influence on social, environmental and economic landscape over next decade
- Permeate across all sectors of economy and society
- Showing strong links to other megatrends, fundamentally disrupt industries and shape societies

**Public Transport & Non-Motorized
Transport & Shared Mobility**

**Digitalization & Data Based Decision
Making**

Electrification of Transport



→ TUMI partners mobilise knowledge to guide your journey towards EST

How to prepare?

Public Transport & Non-Motorized Transport & Shared Mobility: Great new resources



Shared Mobility Principles for Liveable Cities

The future of mobility in cities is multimodal and integrated. When vehicles are used, they will be right-sized, shared*, and zero emission. These principles guide urban decision-makers and stakeholders toward the best outcomes for all.

1
Plan cities and mobility together

*Shared vehicles include all those used for hire to transport people (mass transit, private shuttles, buses, taxis, auto-rickshaws, car and bike-sharing) and urban delivery vehicles.

SharedMobilityPrinciples.org
#LiveableCities
#10principles



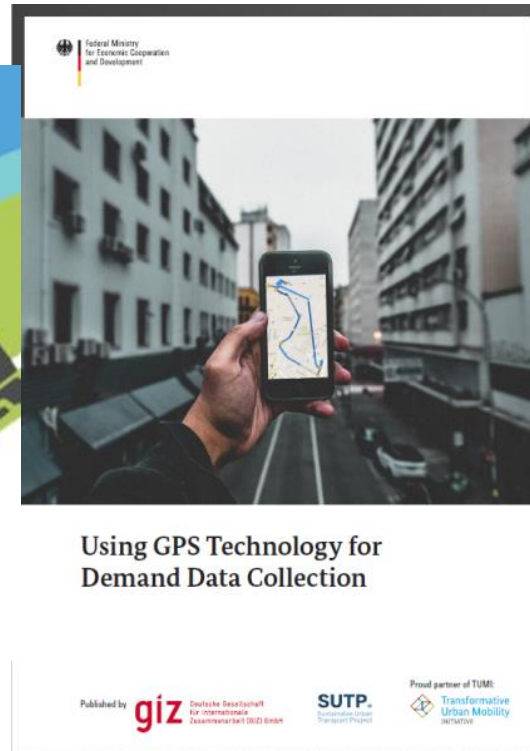
Adopt and Learn:

<https://www.sharedmobilityprinciples.org/>
www.brtguide.org

<https://sutp.org/en/resources/publication-by-series/inua.html>

How to prepare?

Digitalization & Data Based Decision Making: Great new resources



Learn more:

<https://www.itdp.org/publication/walkability-tool/>

https://sutp.org/files/contents/documents/resources/B_Technical-Documents/GIZ_SUTP_TD17_GPS_Tracking_EN.pdf

<http://slocat.net/tcc-gsr>

How to prepare?

Electrification of Transport

How Did Shenzhen, China Build World's Largest Electric Bus Fleet?

by  **Lu Lu, Lulu Xue** and Weimin Zhou - April 04, 2018

 Print |     |  More

Diesel buses—and the choking smog they spew—are a common sight in most cities. But not in Shenzhen, China.

The southeastern city, which connects Hong Kong to mainland China, **announced** at the end of last year that all of its **16,359** buses had



Electromobility

Overview, Examples, Approaches

Sustainable Urban Transport Technical Document #15

Published by  

Learn more:

<https://www.wri.org/blog/2018/04/how-did-shenzhen-china-build-world-s-largest-electric-bus-fleet>

https://sutp.org/files/contents/documents/resources/B_Technical-Documents/GIZ_SUTP_TD15_E_Mobility.pdf

Innovations to Scale up urban mobility

Global Urban Mobility Challenge
supporting cities and their
low-carbon, people-centered
pilot projects

- Supporting innovative pilot projects measurable impacts
- Scalable and replicable solutions for sustainable urban mobility

Oct. 16th:

New call!

Awards

up to **€ 200k**

per pilot
project

**Annual
Awards**
collaboration
With TUMI
Partners



Challenge 2018 Projects

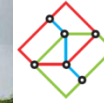


Country	City	Project
Ethiopia	Addis	Bike Sharing Pilot
Colombia	Bogotá	Sefetipin App
South Africa	Cape Town	Open Streets Cape Town
India	Chennai	Inclusive Street Design
Tanzania	Dar Es Salaam	Dar City Navigator
Maroc	El Kelaa des Sraghna	Shared Electric Mobility
Vietnam	Hoi An	Bike Sharing Pilot
Nigeria	Lagos	Lagos Sidewalk Challenge
Kenya	Nairobi	Mobility StartUp Accelerator
Bangladesh	Singra	E-Rikshaw Sharing





TUMI Global Urban
Mobility Challenge



Transformative
Urban Mobility
INITIATIVE



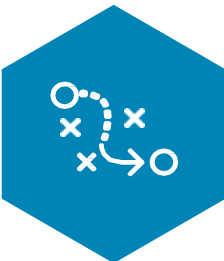
e-Rickshaws

as public transport and
health service in Singra



The challenge

Lack of proper public transportation systems within the city. Privately owned illegal rickshaw updates (electrification) led to a safety issue with increasing accidents.



The solution

The city promotes e-rickshaws as public and emergency health transport by buying e-rickshaws.



The pilot

The project aims to improve the city's public transportation system as well as the health services and make the streets safer.



TUMI Global Urban
Mobility Challenge



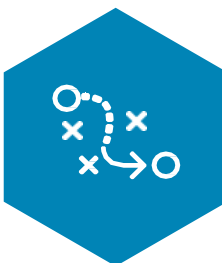
Transformative
Urban Mobility
INITIATIVE

Bicycle Sharing Program in Hoi An City



The challenge

Shared mobility in Hoi An is mostly based on motorbikes and cars and the trend “shared mobility” has not caught on in the non-motorized transport sector.



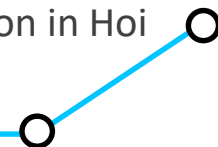
The solution

Develop a bicycle network and establish a public-private partnership bicycle sharing program to foster non-motorized shared mobility solutions.



The pilot

A non-motorized transportation plan to support sustainable transportation in Hoi An will be developed.





TUMI Global Urban
Mobility Challenge



Transformative
Urban Mobility
INITIATIVE

Shared electric transport in

El Kelaa des Sraghna



The challenge

Perishable goods do not reach local markets, as there are no transport options with cooling available.



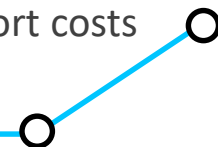
The solution

Shared transport system with 25 e-tricycles (including 5 with a solar cooling system) for transport of goods in El Kelaa des Sraghna province, Morocco.



The pilot

The project creates better access to jobs as well as a reduction of transport costs to markets in the region.



Challenge 2019

Modus Operandi



- Financing up to 10 projects (max €200k each)
- Smaller projects are highly encouraged
- Up to 5 can be updated 2018 proposals of the TUMI Challenge 2018
- The TUMI Partner Jury rates and selects the top 20 projects
- Out of these, the TUMI Board of high level influencers selects the 10 winning projects



Holger Dalkmann

hdalkmann@sustain2030.net

CEO and Founder Sustain2030



For further TUMI Information contact:

Daniel Moser

Daniel.Moser@giz.de

**Management Head of the Transformative Urban Mobility
Initiative**

