Promoting Sustainable Urban Mobility

An integrated approach

Africa Clean Mobility Week 2018

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GIZ worldwide

- GIZ’s purpose is to promote international cooperation for sustainable development.
- GIZ is a 100% federally owned, public-benefit enterprise.
- GIZ operates in more than 130 countries worldwide with an annual turnover of more than 3 billion EUR.
- GIZ employs approximately 20,000 staff members worldwide.
- GIZ is active in a variety of sectors, including e.g. education; health care; agriculture; infrastructure (water, energy, transport).
- In transport we promote sustainable mobility worldwide to harness societal benefits, such as access to jobs, clean air and economic development, to improve quality of life and to limit global warming.
Urban transport is responsible for more than half of global land transport CO₂ emissions (ITF, 2017)
10-25% of urban areas are taken by road transportation infrastructure - A lot of space for cars but…
…where is the space for people?
People love to move, travel, discover… in different ways and by various modes…
Avoid: Built-up area of Atlanta and Barcelona

At same scale:
Avoid: Built-up area of Atlanta and Barcelona

At same scale:

Sources: United States Census Bureau 2010; LTA 2012
Shift: Make best use of valuable space…

Corridor capacity: people per hour on 3.5 m wide lane in the city - pphpd

- Mixed Traffic
- Regular Bus
- Cyclists
- BRT single lane
- Pedestrians
- Light Rail
- BRT double lane
- Heavy Rail (e.g. Hong Kong)
- Suburban Rail (e.g. Mumbai)

- 2 000
- 9 000
- 14 000
- 17 000
- 19 000
- 22 000
- 45 000
- 80 000
- 100 000

Source: Botma & Papendrecht, TU Delft 1991 and own figures
...and save emissions (and travel time)

- **Johannesburg Rea Vaya**: Average annual CO$_2$eq savings 35,497 t
- **Guangzhou BRT, China**: Average annual CO$_2$eq savings 86,000 t
- **Bogotá Transmilenio**: Average annual CO$_2$eq savings 60-80k t
- **Fuzhou China BRT**: Average annual CO$_2$eq savings 38,000 t
Changing Transport
Facilitating climate actions in mobility

As GIZ transport we train, consult and connect our partners regarding issues of:

- **Implementing climate actions**, including policy design and technical assistance
- **Monitoring and reporting** transport data & emissions
- **Financing** sustainable transport developments

Flowchart:
- Developing a strategy
  - Mitigation scenarios
  - Identifying effective climate actions
- Accessing climate finance
  - Pipeline development
  - Mobilising national co-funding
- Reducing emissions
  - Supporting implementation of mitigation actions
  - Ensuring impacts
Upscaling sustainable urban mobility through international partnerships

... supports 20 countries in defining national frameworks for sustainable urban mobility and 100 cities in developing urban mobility plans.

... provides training for 1,000 “game changers”, supports show cases and mobilises 1 billion € of loans for implementation (KfW).

... helps cities to access climate finance.

GIZ transport portfolio in Africa

+ additional trainings
+ additional partnership countries
Capacity development on emission quantification


Example: Sustainable Transport in Namibia

Results so far:

- Development of a sustainable urban transport masterplan with City of Windhoek – active stakeholder engagement
- Purchase of 24 new busses
- Process of Master Plan Development for Northern Regions has been initiated
- Development of an NMT strategy
- More than 500 civil engineering students
- More than 25% of enrolled students are women
This workshop brought together transport experts from Jordan, Lebanon, Morocco, Oman, Palestine, Tunisia and of course Egypt to support them in their efforts in making their transport systems more sustainable and to emphasize, that roads for cars are not a sign of development.

- Participants : 65
- Implemented by: GIZ, Islamic Development Bank
West African Transport Academy

• Foundation of West African Transport Academy
• Training of 600 bus drivers – at least 10% of them women
• Training of mechanics

Results so far:
• 75 heavy-duty mechanics employed & 600 former ‘tro-tro’ undergo training and are employed as city-bus drivers
• The Transport Academy makes enough revenue to sustainably cover its running costs
• Cooperation with Scania
Going new ways: TUMI Hackathon Nairobi

• Major event with Facebook and WhereIsMyTransport in Nairobi: 6-8 April 2018

• Teams of programmers, engineers, designers and business minds will join forces to build a new product in the sustainable mobility space in just 48hrs

• Present it on stage to a panel of expert judges and an audience for a variety of prizes

• Building market based solutions by tackling market barriers assessing market impact and targeting financial sustainability

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http://womenmobilize.org/

Contact: women@transformative-mobility.org
Thank you!

The argument that your city is not like Amsterdam is invalid. Neither was Amsterdam; it took long, radical effort.