Urban Mobility – applying innovative solutions to old problems

SSATP Conference
Lena Stiller | 25/11/2019 | Victoria Falls, Zimbabwe
Agenda

1. The Transformative Urban Mobility Initiative (TUMI)

2. 10 Principles for Sustainable Urban Mobility

3. Best practices: The TUMI Challenge
   - Nigeria: Sidewalk Challenge - Improving walkability in Lagos
   - South Africa: Open Streets Cape Town
   - Colombia: „I Move Safely“ Project in Bogotá
The 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 Global Urban Mobility Opportunity

Access

Inclusion

Health

Climate
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

Non-Motorized Transport & Public Transport

Digitalization & Data Based Decision Making

Electrification of Transport
The TUMI Partnership
TUMI - A 3D Approach to Urban Mobility

**Innovation**
- Supporting innovative fast-moving projects with measurable impacts
- Scalable and replicable solutions for sustainable urban mobility

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

**Financial Support**
- Mobilization of more than EUR 1 billion by KfW in cooperation with other donors

Innovation Projects

Knowledge

Financial Support

Financing

+2000 Urban Leaders
Knowledge & Know-How Scale up urban mobility

Capacity Building
we train urban practitioners and decision makers in sustainable mobility

• Goal: more than 2000 sustainable mobility practitioners and decision makers trained
• Various training formats
• +2 Million € invested
• 2000 people trained (2019)

More than 2000 sustainable mobility leaders trained

+4 Million € invested in TC and pilots
10 Principles for Sustainable Urban Mobility
10 PRINCIPLES FOR SUSTAINABLE URBAN TRANSPORT

Planning dense and human scale cities

- Encouraging walking and cycling
- Developing transit-oriented cities

Optimizing the road network and its use

- Controlling vehicle-use
- Implementing transit improvements
- Managing parking

Promoting clean vehicles

Communicating solutions

Approaching the challenges comprehensively
10 PRINCIPLES FOR SUSTAINABLE URBAN TRANSPORT

Planning dense and human scale cities
Implementing transit improvements

High performance public transit networks based on RRT and rail

Facilitate integration of car sharing into transit systems

Coordinate interchange facilities

Encouraging walking and cycling

Controlling vehicle-use

Managing parking

Promoting clean vehicles

Communicating solutions

Approaching the challenges comprehensively
10 PRINCIPLES FOR SUSTAINABLE URBAN TRANSPORT

Encouraging walking and cycling

- Pedestrian transport impact assessment for new developments
- Modern comprehensive cycling and walking network
- Limit expansion of road space for cars
- Cycling highways
- Design barriers for pedestrians
- Create a complete urban cycling network
- High-quality street design standards for sidewalks, cycle paths and green spaces
- Improve safety for pedestrians and cyclists at all intersections
- Green waves for bicycles
- Appoint cycling and pedestrian advocates in traffic administrations
- Pedestrian zones
- Public bike sharing
Best practices: The TUMI Challenge
Nigeria: Sidewalk Challenge - Improving walkability in Lagos

Connecting the city’s facilities and infrastructure, for letting children reach school more safely.

Aim of the project:
• Construct new and upgrade sidewalks in the heart of the metropolis which will improve walkability and liveability.

Components:
• Walkability assessment through self-developed app
• Construction of 400m of sidewalk to close missing links between bus station, school and hospital and improve existing intersection

Road Safety aspects:
• Show road-safety hot spots through mapping
• Creation of safe infrastructure
• Speed reduction
• Sensibilization

Numbers:
• daily 4,000 pupils can go to school safely
• 7,000 people have improved access to the St. Nicholas Hospital
South Africa: Open Streets Cape Town

Open Street Days are a catalyst for the empowerment of non-motorized transport and inclusive and equitable streets for all users of public space

Aim of the project:
• Achieving more vibrant streets and public spaces, particularly in marginalized areas of Cape Town
• Improving accessibility, air quality, road safety and overall quality of life for all urban residents while contributing to socio-economic empowerment
• Transforming mobility patterns by changing people’s minds and debating on “the city we want”

Components:
• Events: Open Streets Day
• Capacity Building and Knowledge Sharing: platforms, exchange and study visits of interested African cities
• Non-Motorized-Transport infrastructure & facilities, incl. street furniture
• Monitoring & evaluation of NMT facility usage and OS events

Road Safety aspects:
• Raising awareness for pedestrians & cyclists by closing the streets for cars and opening them for the people
• OSD enables people to recapture and use public space in a safe and self-determined way

Numbers:
• temporary network of about 100km car-free streets throughout Cape Town
Colombia: „I Move Safely“ Project

Women and girls face severe security problems when they travel around the city of Bogotá, especially on foot and during night, limiting their mobility, access to opportunities and personal development.

**Aim of the project:**
- To improve the safety of women and girls on the streets of Bogotá during night

**Components:**
- **Measurement:** Evaluation of the complete street and cycling network of Bogotá according to 7 variables with the help of the safetipin app + interviews with women close to public transport stations
- **Campaign:** Carrying out of the “I move safely” campaign to highlight the issue of women’s insecurity, project approach and its impacts
- **Physical interventions:** Measures of tactical urbanism and infrastructure improvements at low rated, strategic points

**Road Safety aspects:**
- Focus on the personal security of a vulnerable group: women and girls
- Improvements of the physical street environment to increase the perception of safety and security at night

**Numbers:**
- 15000 km of streets and 500 km of cycling network evaluated according to the safetipin method. 14000 interviews with women carried out
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