



a world class African city



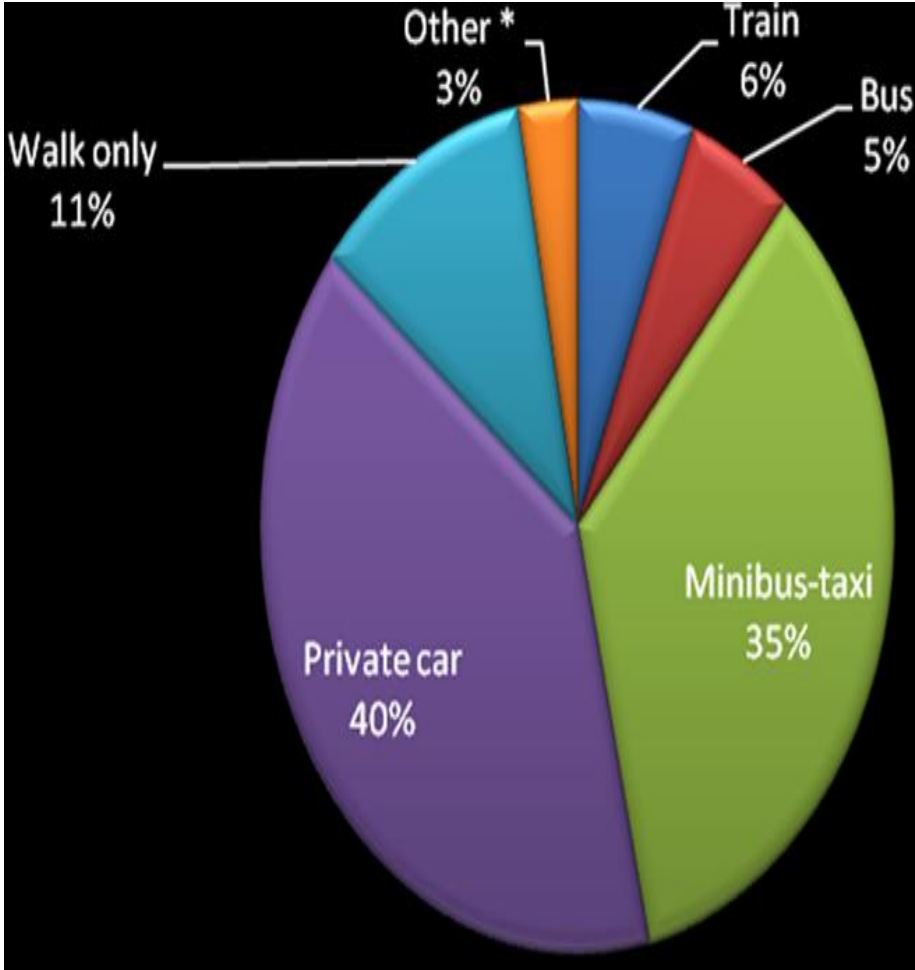
Mitigating climate change through urban mobility

German Habitat Forum

Berlin

1 June 2016

- Population of 4.7 million and is growing (3.4% p.a.)
- Area coverage 1600 sqm and density of 2700 people per square km
- 23% of economically active people are unemployed
- 67.4% of households live on less than R3200 per month with spending up to 40% of income on transport
- Joburg transportation contributes **56%** to national carbon emissions and Transport has the highest demand for energy at **67%**



1. Restructure and integrate the city- Corridors of Freedom
2. Improve and expand provision of quality public transport and use of non-motorised transport
3. Maintain, improve, extend and integrate transport infrastructure
4. Support economic growth through improving freight mobility
5. Manage congestion, travel demand and parking
6. Improve transport safety through active, engaged citizenry
7. Transform the transport sector and encourage new, efficient and profitable transport enterprises and green jobs
8. Plan and regulate the transport system
9. Resource and finance the transport plan



Objectives of mobility system – Rea Vaya

- Provide fast, safe, reliable and affordable public transport
- Enable public transport transformation
- Contribute to spatial restructuring and transit orientated development
- Contribute to broad based black economic transformation
- Mitigate climate change and reduce air pollution
- Promote social inclusion





Infrastructural changes

- Complete streets
- Rea Vaya BRT
- Cycle lanes
- Public transport lanes
- Wider sidewalks
- Public transport facilities: Interchanges, ranks, stations and stops
- Drainage systems



Operational changes

- Low carbon bus technology for Rea Vaya bus services
- Metrobus recapitalisation with dual fuel busses
- Park and rides
- Bike share schemes



Behavioural change

- Eco-mobility Festival
- Freedom Rides
- Ride sharing
- Corporate travel plans
- Open streets

Our new fleet- efficient, accessible, safe, affordable, reliable and environmentally friendly

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- 360 busses carrying 60000 passengers per day
- Recapitalisation with 250 new Euro V and 60 converted to dual fuel (biogas and clean diesel)
- 277 busses Euro IV and V carrying 50 000 passengers per day covering 41 km
- Since 2010, 600 mini-bus taxis have been removed and 400 drivers are employed directly in Rea Vaya BRT operations
- **1.6 million tons CO₂-eq for complete 330 km**



Our policy objectives: To move...

FROM: A car orientated, cycle and walking unfriendly City

TO: A public transport, walking and cycling orientated city



Our policy objectives: To move...

FROM: Urban sprawl and housing far from jobs

TO: Compact city – live, work, learn and play in mixed use nodes



- Main objective- create awareness about mobility options and benefits
- 15000 people , 10 different events including dialogue and exhibition
- Increase in ridership of Gautrain of approximately 9%
- Improved public transport, reducing congestion, and low emissions transport options
- Invest in 'green infrastructure' like, more public spaces, green sidewalks, solar powered traffic signals
- Combine walking, cycling and wheeling with efficient public transport and with vehicles powered by renewable energy.
- Support sustainable human settlements through the Corridors of Freedom
- Initiate new green transport solutions and continue to roll out good quality road infrastructure.

- Transport contributes to climate mitigation and adaptation
- Mobility is a major structuring element for spatial integration
- Capitalise on transit oriented development like Corridors
- Transport is one of the biggest social equalizer
- Mobility solutions have to be tailored for each city
- There is need to strengthen governance of transport in cities