



Viva

Existing public transport





Accra



Dar es Salaam



Nairobi

Jonannesburg



High accident and fatality rates







Côte d'Ivoire



Abidjan busway, late 1970s



liva South Africa 2010



Johannesburg



Cape Town



Port Elizabeth



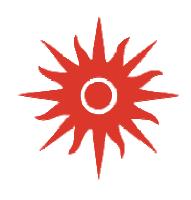


2010 FIFA World Cup





Major events and transformational projects







World Expo

FIFA World Cup

Cricket World Cup

Asian Games

Commonwealth Games

Southeast Asian Games









Timelines

Number of years prior to event that project can be initiated

Legacy

5-7 years

Rail extensions

2-4 years

BRT

1-3 years

NMT upgrades

Little to no legacy

1 year

Bus coaches

4-8 months

Metered taxis

2-4 months

Car hires

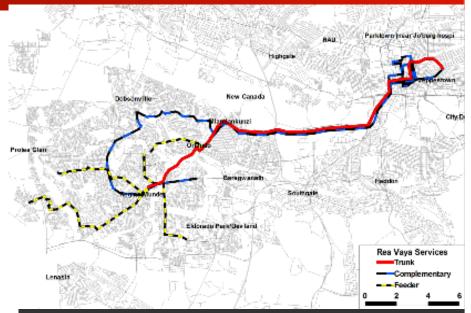
Rea Vaya: First full BRT in Africa





Johannesburg Rea Vaya

- 1. Population: 3.2 million
- 2. Phase 1A
 - 25 km of busways
 - 143 buses
 - 70 000 passengers per day
- 3. Operations began in 2009
- 4. Full Phase 1
 - 122 km of busways
 - 805 buses
 - 434 000 passengers per day





Phase 1A: Soweto services





Features

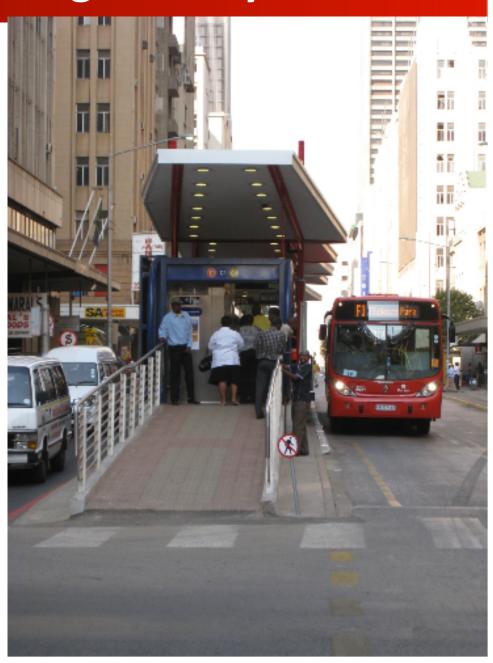
- **✓ Dedicated priority infrastructure**
- ✓ Frequent and rapid services
- ✓ Level boarding and alighting
- ✓ Pre-board fare collection and fare verification
- ✓ Fare-integration between routes, corridors, and services
- ✓ Enhanced stations that are secure and weather-protected
- ✓ Clean Euro 4 vehicles





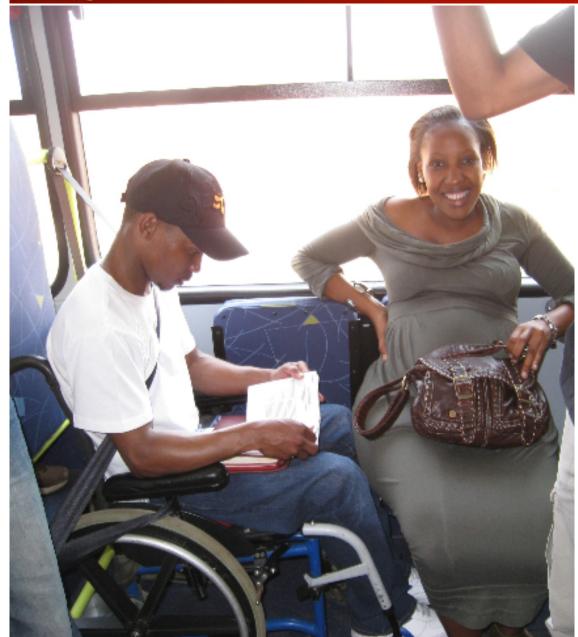
Financing Rea Vaya

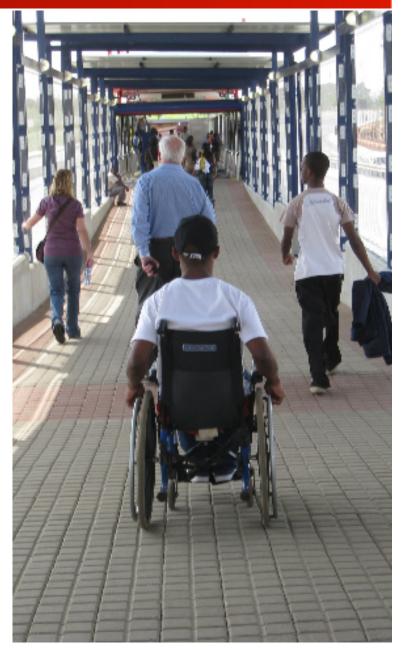
- National grant for infrastructure
 R 2.3 billion (US\$ 300 million) to date
- 2. HSBC developed financial structure, including financing of vehicles by Brazilian development bank
- 3. German government grant for planning (BMZ/KfW/GTZ)€ 2 million euros





Universal access







Station amenities





Customer service





Security

Some violence from minibus taxi industry

Strong response from National and Metropolitan police

Security at stations and in vehicles





Industry transition

New system largely supported by existing industry

Some elements of the industry have protested

Two major strikes have been held

Overwhelming support for system from public transport users





Port Elizabeth

Phase 1A

- 9 km of dedicated busways
- Completed by June 2010

Phase 1 involves a city-wide reorganisation of the existing services

Phase 1

■ Operational in October 2010







Cape Town Integrated Rapid Transit





Complete integrated approach

- ✓ Full BRT model
- ✓ High-quality feeder services
- ✓ Integrated cycle ways
- ✓ Upgraded pedestrian facilities
- ✓ Transit-oriented development (TOD)
- ✓ Bicycle sharing programme
- ✓ Pedicab integration
- ✓ Parking levy on private vehicles
- ✓ Application to CDM





Innovation: Low-cost colourisation

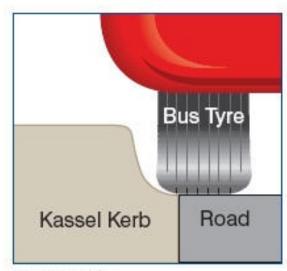




Innovation: Platform-vehicle interface



Smooth contact face



Boot shaped profile



Kassel kerbs



Innovation: EMV fare cards

"Europay Mastercard Visa" (EMV) technology

- □ Customers can use bank-issued debit cards or system-issued fare cards
- ☐ Improved security over standard smart cards
- □National inter-operability between different modes and systems
- ☐ Use of card both for public transport and shopping





Cape Town architecture



Feeder vehicles and feeder stations





Universal access with all feeder vehicles

Real-time information displays at feeder stations

Viva Pedicabs as zero-emission feeders





Dar es Salaam, Tanzania



GDP per capita: US\$ 1 300



Dar es Salaam project update

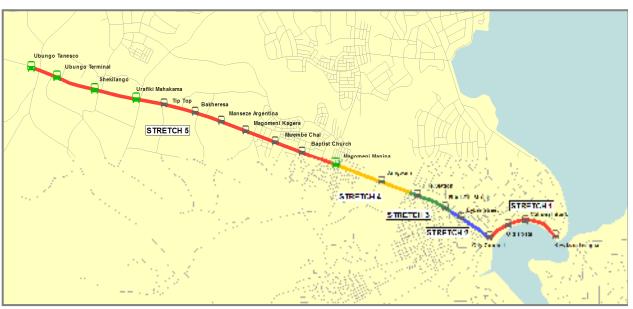
Morogoro "DART" corridor

11 km of median busway17 stations2 terminals

Cycle way development

World Bank financed

7 construction tenders under way







Bus Rapid Transit Planning Guide

www.itdp.org

Fourth edition being developed in 2010



Bus Rapid Transit Planning Guide

June 2007



BRT and football





Dutch BRT Dutch football



BRT and football





Brazilian BRT

Brazilian football



BRT and football





French BRT

French football



2010 World Cup Final





South Korea vs. South Africa

