Dakar BRT Pilot Project

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SSATP, 2019
Dakar BRT project: a mass transit system...

Project approved in May 2017 for a USD 300M WB loan. Complemented by a Eur80M EIB loan.

18.3 km BRT corridor: trunk services and infrastructure
26 feeder lines: services and small infrastructures works
... and fares integration

Status: Infrastructure works have started. Right of way clearing is ongoing and private sector BRT operator recruitment procedure ongoing

Infrastructure Investments in USD Million

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<tr>
<th>IDA</th>
<th>SUF IDA</th>
<th>BEI</th>
<th>GCF</th>
<th>Private Sector financing over a 10-year concession period</th>
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…for a transformational impact on the city

Share of population with access to CDB in 60min using PT at rush hour

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<th>Baseline 2020</th>
<th>Project Scenario 2020</th>
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<td>All residents</td>
<td>57%</td>
<td>69%</td>
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<td>Poor residents</td>
<td>46%</td>
<td>55%</td>
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~50% of city’s poor residents will be able to access >8,000 additional jobs
The BRT corridor as part of a comprehensive urban mobility strategy

A project embedded in a national strategy for urban mobility
- Identified as part of a comprehensive mobility strategy for Dakar which includes Non Motorized Transport, governance, urban development, etc
- Part of the « Plan Senegal Emergent »
- Identified as the only transport contributor to NDC (Paris COP 21)

A carefully chosen corridor:
- Complementary with the urban train
- The most trafficked corridor in the city
- Public transport restructuring around these two backbones of the transport network
Integration of Transport services and infrastructures from the early stage of the BRT project design: integration of urbanism and transport services in view of sustainable development
Dakar BRT Project: comprehensive integration of the corridor in the public transport network #2

An innovative mass transit project ...

- Dedicated at grade runways for 141 articulated buses, backbone of the future urban mobility strategy
- High frequency and high commercial speed
- Serving large traffic generating poles: hospital, universities, commercial centers, institutions, administrations...
- Several types of services
- ITS: Passenger information system, Automatic Vehicle Location, etc

.. integrated in a comprehensive Public Transport restructuring

- Feeders and interchange stations for a full integrated public transport system
- Fares integration
- Traffic management system for the whole system
- Fleet renewal scheme for the feeders
Dakar BRT Project: comprehensive integration in the urban environment #3

Multi-modal approach with strong focus on accessibility, NMT, safety, and integration in urban environment

- Urban requalification along the 19km corridor
- NMT: Sidewalks, provision of safe and convenient pedestrian crossings and paths, Bike lanes
- 3 terminals with P&R facilities
- Road safety is a constant concern
  - Audit of the design and during construction
  - Training for drivers, communication campaigns, equipment, studies, etc
- A design tailored to address vulnerable population needs
  - Safety
  - Accessibility
  - Affordability (17% of low-income passengers benefiting from 50% discount through a social program)
Dakar BRT Project: attention paid to architectural design for improved livability #4

Station designs
- Design tailored the Senegalese context
- Powered by sun-powered energy

Landscaping and urban furniture, ongoing research for improved environment
- Vegetation adapted to Africa and dry countries context
- Urban furniture design research
Dakar BRT Project: a TOD approach around one of the main hubs #5

TOD Petersen

Current situation
• anarchical occupation of lanes
• Informal unauthorized markets
• Congestion

Objectives
• Accessibility improvement to the hub
• Livability enhancement around Petersen stations and its surroundings
• traffic and intermodality improvement between Urban Train and BRT
Main takeaway: integrating BRTs solutions in a comprehensive Transport and Land Use strategy is key.

- Integrated Land use and transport strategy
  - TOD
  - Mixed-use zones development
- Network Development Strategy
- Mobility Corridor Strategy
- Public Transport Strategy
  - Bus augmentation
  - Higher order MRTs
  - Intermodal Integration
- Non-Motorized Transport Strategy
  - Cycles/cyclists
  - Pedestrians
- Freight Management Strategy
- Parking Strategy
- IPT Strategy
- Traffic Management
- Travel Demand Management Strategy

From “Urban Transport Planning”, UNDP, Institute of Urban Transport (India), SUTP