Establishment of the Dar es Salaam Bus Rapid Transit System

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Outline

• Context & Development Challenge
• Conception of a Bus Rapid Transit Solution
• Delivery Challenges
• Addressing Delivery Challenges
• Current Status
Dar 3rd Most Rapidly Urbanizing City in Africa
=> Social & Economic Losses due to Traffic Congestion
Mobility and Accessibility challenges

Govt Operated Commuter Bus system: 1970s

16-Seater Daladala Minibus: Mid 1980s – 1990s

>=25 Seater Daladalas: 2000s but Still NOT A SOLUTION!
### Travel Survey – Modal Split!

#### Figure 12 - Dar es Salaam Modal Split

<table>
<thead>
<tr>
<th>Mode</th>
<th>Number of Person trips</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daladala</td>
<td>3,000,000</td>
<td>60%</td>
</tr>
<tr>
<td>Walking (&gt;500m)</td>
<td>1,250,000</td>
<td>26%</td>
</tr>
<tr>
<td>Private cars</td>
<td>500,000</td>
<td>10%</td>
</tr>
<tr>
<td>Bicycle</td>
<td>200,000</td>
<td>4%</td>
</tr>
<tr>
<td>Motorcycles</td>
<td>50,000</td>
<td>1%</td>
</tr>
</tbody>
</table>
Integrated BRT Network

• Phase 1 – 20.9 km
• Phase 2 – 19.3 km
• Phase 3 – 23.6 km
• Phase 4 – 16.1 km
• Phase 5 – 22.8 km
• Phase 6 – 27.6 km
• Total corridor length: 137 km
Intervention - BRT Phase 1

Second Central Transport Corridor Project (CTCP2) - US$230m for Dar BRT

**Infrastructure:**
- 21km trunk corridor (exclusive bus lanes)
- 27 stations
- 5 terminals
- 1 depot
- 4 feeder-transfer stations

**Trunk Services:**
- Regular
- Express

**Private Sector Operations**

- **Bus Operation**
  - 177 Trunk Buses (140-150 psgrs)
  - 128 Feeder Buses (80 psgrs)

- Fare collector

- Fund Manager
Delivery Challenges

Lack of Skilled Manpower & Organization Capacity

• Delays in the implementation of Resettlement Action Plan
  – Inadequate Capacity in DART
  – Inadequate Coordination with Municipalities
  – Some plot areas allocated for other purposes
  – Delays in release of RAP funding
  – Opposition by Business owners and motorists on BRT only street at CBD

High Court Legal Suites
Delivery Challenges

Lack of Skilled Manpower & Organization Capacity

- Failures in initial Procurement process
  - 2008 World wide economic turmoil
  - Inadequate Capacity of local contractors
- Inadequate Engineering Designs
  - Unmapped ground utilities
  - Weak supervision engineer
- Infrastructure Cost overruns
Delivery Challenges

Opposition and Lack of Consensus Preparation for BRT Operation

• PPP Deal Structure
  – One Service Provider versus Multiple Contracts
• Interim Service Providers
  – 76 versus 140 Buses
  – Court Injunctions
• High Accident Incidence during 1st month of operation
Addressing Challenges

Intervention for Infrastructure Implementation Delays

- Project Restructured to create ‘Steering Committee’
- Additional Technical Assistance to strengthen PIT
- Split of Works packages
- Engineering redesigning to minimize land take
- BRT Operational Design adjusted to exclude non available sites
- Local Legal Bank Court case ‘Observer’
- CBD Dedicated BRT Corridor - Consultation campaign
Addressing Opposition and lack of Consensus

- Revised Deal Structure
  - Bus Operator 1 (ISP)
  - Bus Operator 2 (Competitive)
  - Fare Collector & ITS Operator (Competitive)
  - Fund Manager (Competitive)

- Competitive tenders to be signed in April 2018

- Road safety Audit & Training of Drivers

Trunk & Feeder Routes
Interim Services Operation

Interim Services Ridership: About 200,000 psgrs per day
Additional Challenges: Flood Disruptions
Tanzania’s commercial capital Dar es Salaam is among 10 cities across the world which won the 2017 cities for mobility award in recognition of its Dar Rapid Transit (DART) project, organizers said on Wednesday.

“A new bus rapid transit system serving 200,000 people every day and adding new, lower-carbon engines to the city’s fleet was the secret behind the recognition of Dar es Salaam city,” said a statement by the organizers of the award, the C40 Cities Bloomberg Philanthropies Awards 2017.

The C40 Cities Bloomberg Philanthropies Awards are granted annually in five categories and provides global recognition for cities that are demonstrating climate action leadership.

Since 2013, C40 has recognized more than 40 of the world’s boldest projects, highlighting the critical role cities play as a leading force for climate action.

The statement said Dar es Salaam has been honored among the 10 cities with sustainable projects that represent most ambitious and innovative efforts to shape the world’s future.

The award was presented on Tuesday at the C40 Cities Bloomberg Philanthropies Awards 2017, which took place at the North American Climate Summit in Chicago, said the statement.

DART in tackling traffic congestion and high levels of air pollution in Dar es Salaam with over 4 million people, said the statement.
Questions for clarification?