INTRODUCTION TO LIGHT RAIL TRANSIT PROJECT
COLOMBO– SRI LANKA
CONTENT

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- ISSUES, CONSTRAINTS AND CHALLENGES
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## LIGHT RAIL TRANSIT FOR COLOMBO

### CURRENT STATUS OF COLOMBO

- 10 Million Passenger Daily Trips within CMR
- 1.9 million Daily Passengers Entering the CMC limits each Day.
- Average Travel Speed in CMR 17km/h
- Average Travel Speed within CMC 12km/h
- With Population Increase the Need of Travel is going to Increase

### MEGAPOLIS TRANSPORT MASTER PLAN

- The Western Region Megapolis Transport Master Plan was developed encompassing all aspects of transportation to provide a framework for urban transport development in Western Region up to 2035 while giving high priority to improve public transportation in the Western Region

### INTRODUCTION OF LRT

- One of the key public transport improvements identified in the Megapolis Transport Master is the introduction of a LRT system as a new mode of public transport in the CBD and extended to the out of CBD of the Western Region

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Light Rail Transit Project – JICA  
Ministry of Megapolis and Western Development

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PROPOSED LRT NETWORK

- **Elevated RTS – Line 1 (Green)**
  Fort – Kollupitiya-Bambalapitiya- Borella-Union Place-Maradana (15km)

- **Elevated RTS – Line 2 (Orange)**
  Fort- Maradana- Mattakkuliya/Peliyagoda (11.5km)

- **Elevated RTS – Line 3 (Red)**
  Dematagoda-Borella-Kirulapone-Havelock City-Bambalapitiya (10km)

- **Elevated or at grade RTS – Line 4 (Purple)**
  Borella – Battaramulla (10Km)

- **Elevated or at grade RTS – Line 5 (Pink)**
  Battaramulla – Kottawa via Malabe (9.6km)

- **Elevated or at grade RTS – Line 6 (Olive)**
  Malabe – Kaduwela (6km)

- **Elevated or at grade RTS – Line 7 (Ash)**
  Peliyagoda – Kadawatha (13km)
FINANCING FOR THE LRT PROJECT

- In July 2016 Government of Sri Lanka in principal decided to seek ODA financing from JICA for the implementation of RTS 1 and RTS 4.

- In September 2016, JICA decided to examine the Feasibility of the Malambe – Kollupitiya section for the consideration of the project as a candidate for Japanese ODA loan.

**JICA Loan**

- In December 2016 Government decided to initiate the procurement process to implement the RTS lines, excluded under JICA financing, on BOT/PPP Basis.

**Public Private Partnership**
LIGHT RAIL TRANSIT PROJECT FINANCED BY JICA
MALAMBE - KOLLUPITIYA

- Type: Fully Elevated
- Route Length: 21 km
- Number of Stations: 21
- Depot Location: Malambe
- Traction Type: Third Rail
- Gauge: 1.435m (Standard gauge)
ROAD MAP TOWARDS OPENING OF LRT MALAMBE - KOLLUPITIYA

Stage-1
- Define “Service Level” of LRT system
- Define Route of LRT
- Define system requirement to meet the defined route
- Define Operation body
- EIA survey and analysis

Stage-2
- Preliminary Design & Cost Estimation
- O&M Cost
- EIRR, FIRR
- EIA/ RAP (Resettlement Action Plan)

KOF – Kick Off Meeting
ITR – Interim Report
DFR – Detailed Feasibility Report
ISSUES, CONSTRAINTS AND CHALLENGES
MALAMBE - KOLLUPITIYA

Social, Land Acquisition and Resettlement

- Objections of the public demanding for higher compensations.
- Loss for the business crowd due to the change in business locations.
- Dealing with the traffic during construction.
- Limited lands available for resettlement of the vulnerable group currently dwelling in the city limits.

Legal

- No act or regulations available for Light Rail Transit system
- It is necessary to form a separate entity for operation and maintenance of the LRT system
ISSUES, CONSTRAINTS AND CHALLENGES
MALAMBE - KOLLUPITIYA

Environmental

- Trace along the protected areas
  - Thalangama EPA
  - Sri Jayawardenapura Kotte Bird Sanctuary

- Depot location at low lying area
  - Depot Location
ISSUES, CONSTRAINTS AND CHALLENGES
MALAMBE - KOLLUPITIYA

Technical

- No experienced hands available in the country
- Shortage of man power
- Utility diversion
  - Colombo is an unplanned city
  - Records of utility plans are not updated
- Poor coordination
- Contribution of the stakeholders
THANK YOU!