URBAN TRANSPORT SYSTEM IN GREATER KUALA LUMPUR

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Vision 2020

Meeting The National Aspirations

Vision 2020 Seeks to Achieve:
- DEVELOPED Nation
- HIGH Income
- Social HARMONY

Malaysia is undergoing rapid economic growth, aspires to achieve GNI per capita USD 15,000 in 2020 from USD 9,970 in 2009.

Population Forecasted to Grow from 28 million in 2012 to 33 million in 2020.
To Make Public Transport as the People’s Choice for Mobility towards achieving:

- Increase mobility
- Economic growth and transformation

National:
- Modal share target of 40% in urban areas by 2030
- Increased connectivity in rural areas

Greater KL:
- Modal share currently at 20-25% target at 40% by 2020

<table>
<thead>
<tr>
<th>TOTAL OPERATORS</th>
<th>TOTAL PERMITS</th>
<th>Daily Average Rail &amp; Bus Ridership Inside GKL</th>
<th>Daily Average Rail &amp; Bus Ridership Outside GKL</th>
</tr>
</thead>
<tbody>
<tr>
<td>81,417</td>
<td>365,853</td>
<td>1,206,111</td>
<td>316,033</td>
</tr>
</tbody>
</table>

Urban Transport System in Greater KL
EXISTING MALAYSIA’S TRANSPORT INFRASTRUCTURE & FACILITIES

LENGTH OF ROAD (KM)

1995 | 2017
---|---
61,294 | 237,022

> 3.5x increase in road network, only 10% of total road network is federal road

LENGTH OF RAIL (KM)

<table>
<thead>
<tr>
<th></th>
<th>1995</th>
<th>2018*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rail</td>
<td>699</td>
<td>1,833</td>
</tr>
<tr>
<td>Double track</td>
<td>145</td>
<td>767</td>
</tr>
<tr>
<td>Urban rail</td>
<td>12</td>
<td>328</td>
</tr>
</tbody>
</table>

Urban Transport System in Greater KL
The roles of urban rail are:

- To be the main spine of the public transport network
- To provide links to the centre of KL, i.e., primary corridor demand
- To increase public transport capacity through enhancement to existing lines, extensions to existing lines and the provision of new routes
- To link the city and the airport
### Daily Average Ridership For Rail And Bus Services in GKL/KV (2016 - 2018)

#### DAILY AVERAGE RIDERSHIP

<table>
<thead>
<tr>
<th>Year</th>
<th>Ridership</th>
<th>KPI Target</th>
<th>% Achieved</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016 (Jan-Dec)</td>
<td>1,162,717</td>
<td>1,350,000</td>
<td>95%</td>
</tr>
<tr>
<td>2017 (Jan-Dec)</td>
<td>1,206,111</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2018 (Jan-Mar)</td>
<td>1,276,494</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### DAILY AVERAGE RIDERSHIP

<table>
<thead>
<tr>
<th>Service Type</th>
<th>2016 Average</th>
<th>2017 Average</th>
<th>2018 Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRT KJ Line</td>
<td>254,854</td>
<td>272,684</td>
<td>282,094</td>
</tr>
<tr>
<td>LRT Ampang Line</td>
<td>185,131</td>
<td>184,974</td>
<td>189,059</td>
</tr>
<tr>
<td>KTM Komuter</td>
<td>113,169</td>
<td>96,809</td>
<td>79,580</td>
</tr>
<tr>
<td>Monorail</td>
<td>63,778</td>
<td>48,764</td>
<td>40,295</td>
</tr>
<tr>
<td>ERL</td>
<td>25,524</td>
<td>25,709</td>
<td>25,550</td>
</tr>
<tr>
<td>MRT Line 1</td>
<td>3,145</td>
<td>65,117</td>
<td>142,488</td>
</tr>
<tr>
<td>RapidKL Stage Bus</td>
<td>356,297</td>
<td>299,366</td>
<td>267,466</td>
</tr>
<tr>
<td>SMART Selangor</td>
<td>11,405</td>
<td>29,160</td>
<td>42,657</td>
</tr>
<tr>
<td>PJ City Bus</td>
<td>10,830</td>
<td>13,623</td>
<td>14,303</td>
</tr>
<tr>
<td>BRT Sunway</td>
<td>5,382</td>
<td>7,244</td>
<td>9,603</td>
</tr>
<tr>
<td>MRT Feeder Bus</td>
<td>1,253</td>
<td>22,506</td>
<td>47,052</td>
</tr>
<tr>
<td>GoKL Bus</td>
<td>51,812</td>
<td>63,218</td>
<td>70,764</td>
</tr>
<tr>
<td>Other Bus Operators</td>
<td>73,136</td>
<td>72,734</td>
<td>61,926</td>
</tr>
<tr>
<td>Putrajaya Bus</td>
<td>7,001</td>
<td>4,203</td>
<td>3,655</td>
</tr>
</tbody>
</table>

#### Urban Transport System in Greater KL
KERETAPI TANAH MELAYU BERHAD (KTM)

- Service covers the Greater Kuala Lumpur/ Klang Valley and beyond connecting 53 stations and several integrated hubs such as KL Sentral and Bandar Tasik Selatan.

- Service operates on a daily basis with two lines for the Central Sector, namely, the Seremban - Batu Caves Line, and the Tanjung Malim - Pelabuhan Klang Line.
KL MONORAIL

- InterCity public transit system that links many key destinations within Kuala Lumpur’s busiest areas

- The 8.6km long KL Monorail system runs across 11 stations

- From KL Sentral in Brickfields that passes through the Central Business District (CBD) of Kuala Lumpur and ends at Titiwangsa Station on Jalan Tun Razak.
The LRT or Light Rail Transit train service is operated by Prasarana Sdn. Bhd. Currently, the two lines available from the LRT services are the Kelana Jaya line, running from Gombak to Kelana Jaya and the Ampang line, which runs from Sentul Timur to Ampang and Bandar Kinrara.

**Ampang Line Extension**
- Length – 17.7 km
- No. of stations – 12 stations + 1 integrated with Kelana Jaya Line at Putra Heights
- No. Park n Ride – 7 (multi storey)
- Projected daily ridership – 247,000

**Kelana Jaya Line Extension**
- Length – 17 km
- No of stations – 12 stations + 1 integrated with Ampang Line at Putra Heights
- No Park n Ride – 5 (multi storey)
- Projected daily ridership – 292,000

LRT3, a new LRT line which will run from Bandar Utama to Klang. Route mapping and pre-development matters are currently being formulated.
ABOUT MRT

- The project was announced in December 2010 by the Government of Malaysia, and was launched by Prime Minister Datuk Seri Najib Tun Razak on 8 July 2011.
- Sungai Buloh - Kajang (SB-K) is the first corridor identified to proceed. Other corridors will be identified by Urban Rail Development Plan.

**MRT Line 1 (SBK)**
- Sungai Buloh - Kajang
- Population catchment = 1.2 mil
- Daily Ridership = ~400,000
- Length = 51km (9.5km underground)
- Station = 31 (elevated 24, underground 7)
- Park n' Ride = 13
- Phase 1 = Sg. Buloh - Semantan (end of 2016)
- Phase 2 = Semantan - Kajang (July 2017)

**MRT Line 2 (SSP)**
- Sungai Buloh- Serdang-Putrajaya Link
- Population catchment = around 2 mil
- Length = 52.2 km (include 13.5km underground and 38.7 km of via duct)
- Station = 37 Stations (26 elevated and 11 underground)
- Park n' Ride = 15
- Estimated end to end journey time = 85 min

**MRT Line 3**
- Final line for the KV MRT.
- Planning and development stage.
Development of Urban Rail Network

• Rail is the most efficient mode of transport
• There is a need to alleviate stress on existing lines
• Extension of network allows for more interchanges and better reach to areas of high population growth
Greater KL Rail Projects

MRT Line 2 Sg. Buloh-Serdang-Putrajaya

Commencement Date : 07 November 2015
Plan Completion Date : 28 February 2021
Length/Stations : 37 km / 26 nos
Journey time : 58 mins
(Sg.Buloh -Putrajaya)

LRT 3 Bandar Utama - Klang (Johan Setia)

Commencement Date : 07 October 2015
Plan Completion Date : 31 July 2022
Length/Stations : 52.2km / 37 nos
Journey time : 85 mins
(Sg.Buloh -Putrajaya)

Urban Transport System in Greater KL
MRT Line 2

- Project owner = MRT Corp
- Population catchment = 2.4 Million
- Length = 52.2km (13.5km underground)
- Station = 37 (elevated 26, underground 11)
- Project duration = 2015 - mid 2022
- Current status = Begin construction
Light Rail Transit 3

- Population catchment = 1.2 Million
- Forecast Daily Ridership = ~70,000
- Length = 37 km (2km underground)
- Station = 26 (elevated 25, under 1)
- Project duration = Q4 2015 - Q1 2021
- Current status = Begin construction
### Functions of GoKL City Bus
- “Last mile” bus service in KL
- Serves the main hotspots in KL

### Ridership in 2017
- 20.9 million total
- 63K daily average

### # of Buses as of 2017
- 36 buses in operations

### Highlights & Features
- Integrated with PT hubs and covers 70 bus stops around KL
- 5 mins frequency during peak hours
- Free WIFI
- Disabled friendly (ramp, visual, sound)
- Monitored by GPS and CCTV

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**Operation Areas**
- Pasar Seni - Bukit Bintang
- KLCC - Bukit Bintang
- Terminal Pekeliling - KL Sentral
- Terminal Pekeliling - Bukit Bintang

Urban Transport System in Greater KL
The BRT Sunway Line is a bus rapid transit line that is part of the Klang Valley Integrated Transit System servicing the southeastern suburbs of Petaling Jaya, Malaysia

- Fully-elevated, dedicated lanes
- First service: June 2, 2015
- Number of stations: 7
- System length: 5.4 km (3 mi)
- Began operation: 2 June 2015
- Frequency: every 4-8 minutes
Taxi & e-Hailing Services
<table>
<thead>
<tr>
<th>Taxi Class</th>
<th>Service Types</th>
<th>Fare Charging Mechanism</th>
<th>Accessibility</th>
<th>Area of operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget</td>
<td>Service Types</td>
<td>Service Types</td>
<td>Accessibility</td>
<td>Area of operation</td>
</tr>
<tr>
<td>Executive</td>
<td>Metered</td>
<td>Street-hail</td>
<td>Klang Valley</td>
<td>Peninsular Malaysia</td>
</tr>
<tr>
<td>Premier</td>
<td>Metered</td>
<td>Street-hail</td>
<td>Klang Valley</td>
<td>Peninsular Malaysia</td>
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<tr>
<td>TEKS1M</td>
<td>Metered</td>
<td>Street-hail</td>
<td>Klang Valley</td>
<td>Peninsular Malaysia</td>
</tr>
<tr>
<td></td>
<td>Zonal (Distance only)</td>
<td>Airport</td>
<td>Selected airports in Peninsular Malaysia</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contract-based</td>
<td>Hotel or company based</td>
<td>Peninsular Malaysia</td>
<td></td>
</tr>
<tr>
<td></td>
<td>KM Travelled (Distance only)</td>
<td>Terminal based</td>
<td>Peninsular Malaysia</td>
<td></td>
</tr>
</tbody>
</table>

4 classes of taxi

64,694 number of vehicle permits
Peninsular Malaysia*
KL SENTRAL

• 16 APRIL 2001

• MALAYSIA’S LARGEST TRANSIT HUB

• MAIN RAILWAY STATION OF KUALA LUMPUR

• ACCORDED THE ‘XKL’ GLOBAL DESTINATION CODE BY THE INTERNATIONAL AIR TRAVEL ASSOCIATION (IATA) WITH CHECK-IN FACILITIES FOR ITS KL CITY AIR TERMINAL (KL-CAT)
TERMINAL BERSEPADU SELATAN (TBS)

- INTEGRATED TRANSPORT TERMINAL (ITT) OF KUALA LUMPUR
- TOOK OVER BUS OPERATIONS SERVING SOUTH BOUND BUSES, NORTH BOUND BUSES, CENTRAL BOUND BUSES & EAST COAST BOUND BUSES FROM OLDER CITY BUS TERMINALS
- CONNECTS TO KTM KOMUTER, LRT AND KL TRANSIT
- 60 BUS PLATFORMS
- 150 TAXI BAYS
- 1,000 PARKING BAYS
- DESIGNED TO HANDLE 5,000 BUS TRIPS A DAY
- AS OF DECEMBER 2015, IT SERVES 55,000 TRAVELLERS EVERYDAY

Urban Transport System in Greater KL
The End

Thank you
Terima kasih