Public Transport Network in Bangkok Metropolitan Region

The Expert Group Meeting on Special Needs and Challenges in Developing Countries for Achieving Sustainable Transport

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Public Transport Network in Bangkok Metropolitan Region
Traffic Congestion Problem
Bangkok and its Population

Excess 10 million

Registered residents: 5,673,500

2012:
Over 10 million, including non-registered population, entrepreneurs and visitors

Expected to increase to 5,707,206

2015

Urban density of 3,625 persons /km²
Traffic Info in Bangkok

Currently, nine million vehicles, average speed of 14 km/hr.

- 7.5 million vehicles 19 km/hr.
- 6.8 million vehicles 20 km/hr.
- 6.4 million vehicles 21 km/hr.
- 6.1 million vehicles 22 km/hr.

Insufficient Public Transit

Over 8 million vehicles (Only those registered in Bangkok)

Traffic surface of only 5%

Travel demand of over 17 million trips–person/day
Anticipated passenger volume after the Completion of Rail mass Transit Network

2015
- Taxi & Motorcycle: 18.90%
- Bus & Boat: 38.10%
- Mass Transit: 5.80%
- Private Car: 37.20%

2029
- Taxi & Motorcycle: 16.50%
- Private Car: 41.10%
- Bus & Boat: 21.80%
- Mass Transit: 20.70%
Major Trunk Routes as of 2015

1. Dark Green Line (BMA): 36.3 km
2. Dark Blue Line (MRTA): 20 km
3. Airport Rail Link (SRT): 28.5 km
4. Dark Green Line (MRTA): 12.8 km (Extension)

Total: 84.80 km

Under construction:

1. Purple Line (MRTA): 23 km
2. Blue Line (MRTA): 27 km
3. Dark Red Line (SRT): 26.3 km
4. Dark Green Line (MRTA): 12.8 km (Extension)

Total: 89 km

Newly completed (not yet open for service):

1. Light Red Line (SRT): 15 km.
12 Routes of Rail Mass Transit according to the M-MAP
(Mass Rapid Transit Master Plan in Bangkok and Metropolitan Region)
Feeder System offering Door-to-door Connectivity to Trunk Routes
1. Development of Waterborne Transport

1. Phasi Charoen Canal Cruise (in service)

2. Saen Saep Canal Cruise (in service for some sections)

3. Phadung Krung Kasem Canal Cruise (4.50 km)

4. Lat Phrao Canal Cruise (24 km)

5. Prem Prachakorn Canal Cruise (20 km)
Low speed low tide
With GPS and CCTV

24 seats
plus 36 stand passengers
2. Promotion of non-motorized transport

At present,

there are 54 bicycle routes in Bangkok, with a combined length of 365 km.
500 Public City Bikes with 50 stations in business zones and tourist destinations
Enhanced Safety for Cyclists

- Provide suitable bicycle lanes, in particular grade-separated bicycle paths
- Offer bicycle lanes separated from the road by a fence
- Demarcate bicycle paths by a painted marking
3. Curbside Improvement, Linking with Important Venues and Rail Mass Transit

This includes:

A. Skywalk at Ratchaprasong to connect commercial and business areas

B. Sky Park connects Lumpini with Benchakiti parks

C. Tourist Walk connects Soi Nana Nuea with Soi Nana Tai.
A. Skywalk at Ratchaprasong to connect commercial and business areas

Private sector took part in Skywalk construction to facilitate convenient and safe commuting while at the same time enhance urban aesthetics.
B. Sky Park connects Lumpini with Benchakiti parks

Development of elevated walkway to connect two parks for enhanced safety and for recreational purpose.
Amenities and Facilities for all in accordance to the Universal Design Principals

➢ Develop and design curbsides, ramps, traffic lights, and elevators to provide convenience to children, elderly people and disabled people.
Amenities and Facilities for all in accordance to the Universal Design Principles

➢ Develop and design user-friendly public areas for all such as at the hospitals, schools, government building, offices, and parks
GLOBAL ROAD SAFETY

• Saving lives and reducing injuries by improving road safety policy and practice
• coordinating with in-country governmental and non-governmental stakeholders
• Implementation of programs at the local level complements national policy progress
Official participants in the program

• 5 countries selected to receive technical support to review and strengthen road safety legislation include China, India, Philippines, *Thailand* and Tanzania

• 10 cities are Accra (Ghana), Addis Ababa (Ethiopia), Bandung (Indonesia), *Bangkok* (Thailand), Bogota (Colombia), Fortaleza (Brazil), Ho Chi Minh (Vietnam), Mumbai (India), São Paulo (Brazil), and Shanghai (China)
Bangkok Action Plan

• The 1st year (2015):
  — Improved pedestrians
  — Initiated city speed limit under 25 mph
  — Stopped drunk drivers

• The 2nd – 4th year (2016–2018):
  — Improve road conditions and traffic lights

• The 5th year (2019):
  — Connect building and mass transit system via sky walk
Sathorn Model

- A pilot study project with government, private sectors, academic institutions and citizen
- To sustainability contribute to mitigate traffic congestion
- Initiated by World Business Council for Sustainable Development (WBCSD), the BMA, the Ministry of Transport (MOT), and Metropolitan Police Bureau.
Sathorn Model

- Park & Drive
Sathorn Model

- Shuttle Bus
Sathorn Model

• Linkflow (Application: Bangkok light traffic)
Sathorn Model

• Traffic Management
  – Traffic Bottleneck Mitigation: by readjust curb and traffic pavement
  – Traffic Signal Modification
Thank you