

## Dubai Public Transport Bus Master Plan, Network Planning

Along with the distinction of being one of the world's fastest-growing urban cities, Dubai comes with a plethora of new opportunities and challenges particularly for public transport. The cornerstone of the planning process for an integrated transportation system is the Bus Master Plan (BMP) project, being conducted under the guiding principle that Dubai's public transport system will develop into a world-class transportation system. This includes meeting the following transportation objectives:

- ▶ for the overall urban transportation system to provide safe and smooth transport for all;
- ▶ for public transport services to carry 26% of all motorised person trips by 2010 and
- ▶ for bus, rail and water transports to be integrated and complement one another.

Client: Government of Dubai, Roads & Transport Authority

Project: Dubai Public Transport Bus Master Plan

Project duration: August 2006 – May 2007

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The overall direction of the study is to provide the Roads & Transport Authority (RTA) with a comprehensive bus system, which will integrate the future public transport system, to sustain Dubai's transportation needs. The key steps in this study include

- ▶ reviewing the existing bus network,
- ▶ benchmarking its performance against other world-class systems,
- ▶ developing a set of bus network planning and service-level guidelines,
- ▶ determining the network planning process and
- ▶ measuring the performance of the new bus network.

The planning guidelines are developed to deal with these deficiencies and mainly, to direct the delivery of a bus network that addresses the main drivers of patronage.

Through this approach, bus networks for 2007, 2008, 2009, 2015 and 2020 are established.

The recommended bus network consists of a hub-and-spoke structure, where local service areas will be served by

feeder buses to bring them to the main activity centres within the areas. Passengers can transfer to high-speed systems like express bus or metro to quickly reach their destinations.

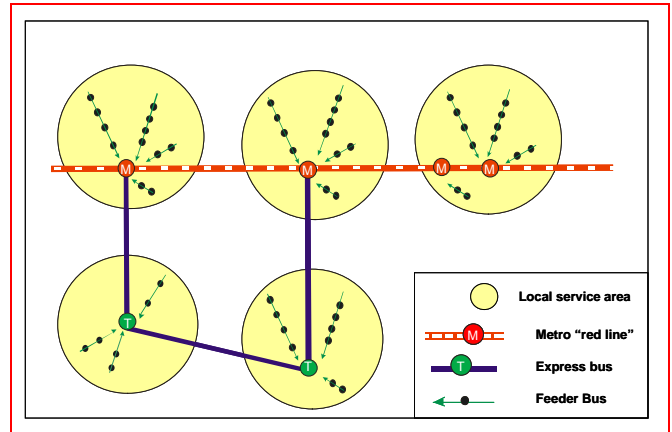


Figure: The hub-and-spoke-system

Short term, this study has mainly focussed on the transition of the existing bus network to the hub-and-spoke structure.

Long term, improvements will be made to the hub-and-spoke structure to support Dubai as it develops into a poly-centric city. Route adjustments have been proposed as more rail-based systems arise.

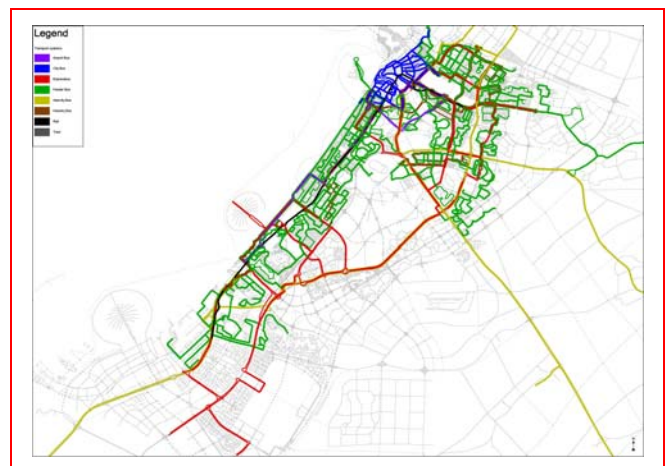


Figure: Network structure

Park-and-ride facilities are also included in the later part of this report to find the means of improving integration between private and public transportation systems.