

## MVA in Thailand

MVA has been involved in projects in Thailand for over 20 years. During this period, we have enjoyed long and successful relationships with both Government and the private sector, on some of the most prestigious transportation and development projects.

Systra MVA (Thailand) Ltd (formerly MVA (Thailand) Ltd) was established in December 2000, with a permanent office in Bangkok. The Bangkok office is now a key hub for MVA in Asia, and works closely with the regional headquarters in Hong Kong, and other regional offices in Asia.

## MVA Consultancy Services

MVA provides professional consultancy services in all aspects of traffic and transport planning and management. We advise on transport policy, plans and projects and on the operation of transport and traffic systems, at national, regional, urban and local levels. Clients include Governments, local authorities, transport operators, project developers and financial institutions.

MVA operates most modern specialist transport software packages such as CUBE (VOYAGER, TRIPS, TRANPLAN, TP+, CARGO, DYNASIM), VISSIM, EMME/2, SATURN, SIDRA, PARAMICS, HiCAP.

## Transport Forecasting in Bangkok

MVA maintains up-to-date and detailed transport forecasting models for the Bangkok area. Based on the CUBE suite, models include a full "4-stage" transport model, and detailed highway and public transport models. The models are regularly updated and validated against observed travel patterns, including vehicular traffic and public transport users.

The models include all significant existing and future transport schemes, and incorporate detailed demographic and socio-economic inputs. They are suited to a wide range of applications on future development and transport infrastructure projects in and around the Bangkok area.

## Recent Project Experience in Thailand

### *MRTA (Blue Line) Intermodal Transfer Facilities*

MVA led transport studies for MRTA on the design of transfer facilities, bus restructuring and station area planning for the Blue Line Metro system.

### *Bangkok Transit System (BTS – Skytrain)*

For many years, MVA has been providing forecasts of future patronage and revenue, and analysis of patronage characteristics and trends. This has

included examination of alternative fare strategies and feeder bus integration.

### *Expressway Projects*

MVA has undertaken many projects relating to existing and proposed expressways: expressway traffic and revenue forecasts; phasing studies; expressway and tollway integration studies; distance-based toll study; and network extensions.

### *Don Muang Tollway*

MVA has undertaken traffic and revenue forecasting, and design of toll collection, and TCS equipment for Don Muang Tollway. The forecasts have examined the impacts of system extensions, competing new roads, and various toll scenarios.

### *Bangkok Elevated Road and Train System (BERTS)*

MVA acted as transport advisors in support of the prospective financing for this "mega-project", and provided similar advice in support of a bid to restart the stalled implementation of the scheme.

### *Tools and Methodologies for the Development of An Energy and Environmental Assessment.*

MVA has undertaken this study on behalf of the French Development Agency (AFD), to assess the ability of current analytical tools and procedures used in analyzing energy consumption, green house & automotive exhausts of alternative potential transport and land use interventions in the Bangkok area. The study recommended organizational improvements for best integrating these aspects within the planning and decision-making processes

### *Urban Transport Database and Model Development*

MVA led this study on behalf of OCMLT (renamed to OTP), to develop transport databases and forecasting models at both national and local levels. This project developed the traffic forecasting tools for future transport studies, on which major decisions on transport infrastructure investment would be made.

### *Traffic Studies for Development Projects*

Traffic advice and analysis for numerous development projects, including for example:

- Tesco Lotus, Carrefour & Central superstores
- Major hotel developments – Sofitel, Kempinski, Central World, Athenee
- Retail malls – Central World, Seacon, Seri Centre, Future Park Rangsit, Central Chonburi
- Mixed use CBD – Royal Ratchadamri, DKSH One Roof, Central Pattaya, Nawamin City
- Bumrungrad hospital expansion
- Impact Muang Thong Thani

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