SUSTAINABLE TRANSPORT IN ASIA
MVA IN ASIA

MVA is a global transportation specialist and leading market research consultancy specializing in traffic engineering and transport planning and operations.

MVA is a leading transport planning and traffic engineering specialist consultancy in Asia. MVA set up its regional head office in Hong Kong in 1978, with permanent offices in Beijing, Shanghai, Shenzhen, Singapore, Bangkok with project offices in Ho Chi Minh City and other Asian cities. To date, MVA has approximately 330 permanent staff operating in Asia among the various entities.

MVA offers a complete range of consultancy services for traffic, transport and pedestrian aspects. Working closely with governments, NGOs, operators, financial institutions, developers, architects, planners, engineers and contractors, in both public and private sectors. MVA is experienced in providing consultancy services from initial concept stages, through planning, feasibility, design to construction.

MVA has been assessed by Hong Kong Quality Assurance Agency and registered as meeting the requirements of ISO 9001: 2008. The scope of the Company's registration includes the provision of consultancy services in transportation planning, land use planning, traffic engineering and management environmental engineering, business, market and social research for projects in Hong Kong and China.

ABOUT SYSTRA

MVA is a SYSTRA Group company. SYSTRA, the world leader in public transport infrastructure engineering, is an RATP and SNCF subsidiary. The Group's ambition is to establish itself as the benchmark for collective, sustainable mobility. SYSTRA reported revenues of €525 million in 2014 and employed 4,780 people worldwide.

TYPES OF SERVICES OFFERED

- Aviation and Airports
- Business, Market and Social Research
- Car Park Design and Management
- Master Planning and Land-Use Development
- Pedestrian and People Movement
- Public Transport Planning
- Rail Planning and Station Design
- Strategic Multi-modal Modelling
- Transport Simulation
- Traffic Management and Control
- Transport Investment
- Transport for Development
- Traffic and Highway Engineering
- Transport Planning
- Vertical Transportation
GREEN TRANSPORT
FOR A SUSTAINABLE FUTURE

**MVA** is committed to providing sustainable solutions for development projects throughout Asia. Our transport planning policy and landuse development studies evolve to suit the changing needs of society. We also conduct public transport and pedestrian studies to create more and better environmentally friendly environments. With sustainable visions and foresights, MVA offers comprehensive transport and planning consultancy services for the region.

A selection of MVA regional projects highlights our expertise in sustainable transport as follows:

**West Kowloon Terminus**
The cross-boundary high speed rail terminus in Hong Kong, which is due to open in year 2015 to serve up to 200,000 passengers a day, has been designed by MVA as a multi modal mega hub giving priority to domestic railways and local pedestrians for access.

**Shatin Central Link Impacts**
MVA reviewed over 200 bus routes in Hong Kong and proposed various network restructuring plans to maintain public transport operational efficiency, and to encourage the use of railway as a sustainable mode of transport.

**West Kowloon Cultural District**
Various concept plans have been devised by MVA to offer a green living, working and leisure environment at the heart of Hong Kong’s harbour potentially including the possible provision of an Automatic People Mover (APM) system and extensive pedestrian facilities.
Study for Sustainable Development
MVA provided the transport planning inputs for a strategic study by Planning Department to formulate guidelines to set direction on how the new potential developments would contribute to sustainability. These guidelines have subsequently been adopted and applied.

Kai Tak Development
MVA studied the feasibility of implementing an Environmentally Friendly Transport System (EFTS) in the new South East Kowloon Development area in Hong Kong to minimize road traffic and create a people friendly environment.

Ma Wan Access Studies
MVA defined a transport plan for the Ma Wan Development, which has incorporated major residential and recreational facilities, and restricted vehicular access to offer a people friendly environment.

Green Transport Options for Sha Po Developments
MVA designed green transport schemes to promote rail use and minimize traffic impacts in this environmentally sensitive area.

Sustainable Transport Opportunity for the Harbour
MVA devised a sustainable transport strategy for Victoria Harbour, promoting walk, cycling and ferry as green and healthy modes of travel.

Hong Kong Science Park
For each phase of the Science Park's development, MVA developed a multi-modal accessibility strategy (including non-franchised buses), and various traffic layouts safeguarding environmental qualities to achieve operational sustainability.
China at a Cross-road Facing Alternative Paths of Motorisation

Policy choices must be made

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Beijing Zhongjian Aonan Centre
MVA supported the building’s application for “Leadership in Energy and Environmental Design” Certificate (LEED) through planning car park provision based on a low carbon consumption, including extensive bicycle and pedestrian facilities to encourage low carbon travel.

Beijing Dawangjing Development Competition (1st Prize)
Against local and international players, MVA won a competition to plan and design a 2km² mixed business development including a green transport system and reduction in car parking provision to promote the use of public transport including metro.

Tianjin Yuijiapu District Comprehensive Transportation Planning
MVA is plans for the Tianjin Yuijiapn District encouraged the use of walking, bicycle and buses, in order to reduce parking provision and car travel. In particular, a grade-separated walking system was designed to improve pedestrian environment and connectivity.

Zhangjiakou Chongli Resort Development
MVA designed the 100km² resort that included six ski slopes, two golf courses and over ten hotels and residential blocks, with a green electric bus system for internal circulation and external integration, and a parking guidance system to reduce the time spent by vehicles searching for parking space.

GDP PER CAPITA US$000s / PER ANNUM

CARS PER 1000 POPULATION

China Prospects
North American
Industrialised European and Japan
Singapore Hong Kong
Less Developed Asian
Developing Asian
Asian Cities Race to Build Railways for Better Sustainability

**Shenzhen Comprehensive Transport Study**
MVA developed a comprehensive set of transport strategies, covering all modes/sectors of transport, including express rail network development, Travel Demand Management (TDM) and transport/land-use integration, plus institutional development - to help achieve the city’s goals of socio-economic and environmental sustainability.

**Foshan Sanshan Eco-town MLP Traffic Study**
MVA worked with architects from Hong Kong, Germany and Taiwan to develop a Master Layout Plan for Sanshan in Foshan that promotes public transport through
(a) covering over 80% of the eco-town with LRT lines with transfers to metro and high speed rail
(b) goods vehicle restriction in major residential and business areas and
(c) general vehicle restriction in the eco-island at the town centre - with the carbon emissions by mode by plan under check.

**Pingtan High Speed Rail Station Study**
MVA developed an award-winning hub design for Pingtan, which will create a sustainable and pedestrian friendly environment to facilitate multi-modal interchange movements to and from a high speed rail station with a provision to extend the railway to Taiwan.

**Sustainable Transport**
- Asian Cities Race to Build Railways for Better Sustainability
- MRT Modal Shares in Major Cities need to be boosted
"One North" Development
A green techno city in Singapore based around “Automatic Guided Transit” (AGT) systems has been designed to provide a traffic-free environment for some 70,000 residents and 80,000 workers.

Saifee Burhani Upliftment Project
This is the largest urban renewal project in India covering 16.56 acres of land which will transform the Bhendi Bazaar area into a healthy environment designed around resource recycling, energy conservation, livability and green space.

Tools and Methodologies for Energy and Environment Assessment
For the French Development Agency, Systra MVA in Thailand completed various works for improving transport and environmental sustainability in Bangkok. These include (a) Critically reviewing the current methods adopted for strategic energy and environment assessment; (b) Better quantifying energy savings as well as green house gas and other emissions; (c) Making recommendations on institutional improvements for more coherent land use and transport planning.

Sustainable Urban Transport for Ho Chi Minh City Line 2 Project
For ADB, MVA developed land and transport integration measures for a major metro line (Line 2) proposed for HCMC, allowing for global climate and local environmental impacts.

Clean Technology Fund (CTF) Mission
MVA developed initiatives that can significantly reduce carbon emissions from transport sector – focusing on sustainable transport projects to support MRT system in Ho Chi Minh City.
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