

MVA

A Multi-Disciplinary

International Consultancy in

Transportation, Planning and Research

MVA

Aviation & Airports





MVA has been operating in Asia via its regional head office in Hong Kong since 1978, providing local and international experience and knowledge in transportation, planning and management consultancy. MVA also operates through regional offices in Mainland China, India, Singapore and Thailand; and project offices in many other countries. MVA is able to draw on the resources of the international MVA Group, formed in 1968, which is part of Groupe Systra, one of the largest transport and engineering consultancy organisations in the world.

MVA is the largest specialist transportation consultant and a leading market research firm in Hong Kong SAR and in the Asia region. MVA provides professional consultancy services in the fast growing Asian region for all aspects of traffic engineering, transport planning & management and market & business research, for both public and private sectors. Evidence of MVA's work can be seen in existing infrastructure and developments. MVA is committed to the pursuit of a balance between excellence and practicality, which has been the hallmark of our professional consultancy services.

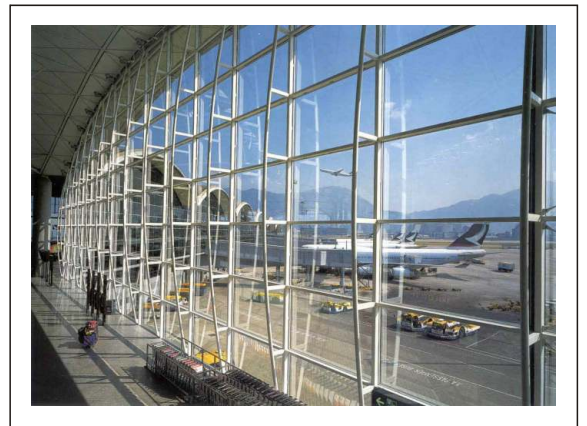


Aviation is a major growth industry in the Asia-Pacific region. MVA, the leading specialist transportation consultancy in the region, is currently expanding its capabilities in the aviation and airport planning fields. MVA has a dedicated team of airport planning professionals and now offers the full range of services from aviation demand forecasting, airport business and facility planning through to surface access planning and market research.

MVA also has a long and distinguished track record in aviation and airport planning in the U.K., Europe and North America. As such MVA can draw upon a truly global pool of experience and resources to provide the best possible solutions for the aviation industry.

Services

- Airport Surface Access Planning
- Aviation Demand Forecasting
- Airport Business and Facility Planning
- Aviation Cargo & Logistics Planning
- Airport Property Development and Town Planning
- Airline Strategy and Market Research



Surface Access Planning

MVA advises on all stages of airport surface access planning including strategy, evaluation and implementation. This aspect of our services ranges from development of comprehensive airport transport plans to assessment of specific infrastructure and services. Working with airport operators, local and central government and public transport operators, we can assess the feasibility, help to optimise the benefits or act as auditors for potential investors. MVA also has extensive experience with high speed rail services, which are increasingly being linked to airports to provide comprehensive national/international networks.



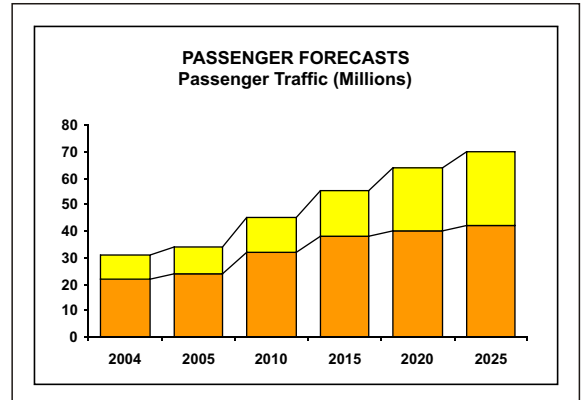
Aviation Demand Forecasting

MVA has experience of all aspects of aviation demand forecasting including passengers, cargo and air traffic movements. This experience encompasses short to medium forecasting for business strategy planning and long term forecasting for infrastructure and masterplanning purposes.



Airport Business and Facility Planning

Airports are often complex and evolving environments. Working for airport authorities, airport operators, private sector architects/planners/engineers and local & central government bodies, MVA provides the full range of services to appraise the design, capacity and serviceability of new airport facilities. We also use our market analysis skills to determine how investments in new facilities and services may stimulate market growth and affect positioning and competition throughout the market.



Aviation Cargo & Logistics Planning

MVA has worked with major air cargo operators and logistics providers in all areas of this booming market segment. Specific fields of experience include: airside and landside demand forecasting, external traffic accessibility studies and cargo facility planning and design.

Airport Property Development and Town Planning

Successful airports often serve as focal points for wider development areas, and can have major impacts on local and regional economies. MVA is fully experienced in all aspects of such development planning ranging from macro planning studies of new towns associated with airports through aviation business parks, cargo/logistics facilities and recreational areas to detailed assessments of individual sites.

Airline Strategy and Market Research

Developing an airline strategy involves an uneasy balance of long-term fleet investment decisions and a volatile, changing market. MVA is experienced in the assessment of the economic value of airports and air services for national and regional economies. We combine an understanding of the underlying market, its composition and its potential for growth with an appreciation of alternative competitive strategies. We consider both the direct effectiveness of different approaches and their robustness to market uncertainties and possible competitor reactions.

MVA have considerable experience of conducting market research for airports, airlines and public transport operators at some of Asia's leading airports. We assist these organisations in improving their services and designing new products for both business and leisure travellers.



Detailed Planning and Design for New Cargo Terminal at a Major International Airport

PROBLEM - A major cargo-carrier wanted to develop its own cargo-handling facility at a busy international airport.

SOLUTION - MVA provided :

- Airside & Landside Demand Forecasting
- Internal Traffic & Transport Design
- External Accessibility Assessment & Advice

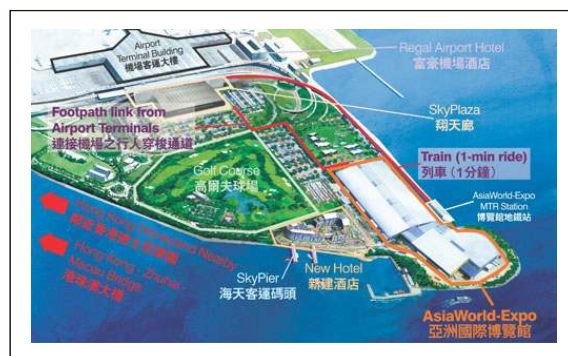


Study of Potential Air Travel Demand in Guangdong Province

PROBLEM - To identify the potential size of the Guangdong air passenger market share for a particular airport.

SOLUTION - MVA provided :

- Disaggregated demand forecasting by residency, location and income group
- Recommended connectivity strategies to enhance market share



Transport Design Advice for Exhibition and Conference Centre

PROBLEM - To design and implement a large exhibition and conference centre adjoining a major international airport

SOLUTION - MVA provided :

- Advice on vehicular & pedestrian access arrangements
- Internal traffic & transport design
- Public transport accessibility



Design and Construction of Hong Kong International Airport Terminal 2

PROBLEM - HKIA identified medium term need to increase passenger-handling capacity and rationalise landside ground support facilities

SOLUTION - MVA provided detailed advice on:

- Sizing and throughput requirement for new terminal building
- AEL Station re-design and associated pedestrian improvements
- Required road network upgrades
- Detailed layouts for new departures kerb, coach station and limousine pick-up

Design Advice for Passenger Terminal Extension and Rail-Air Interchange at Shanghai Hong Qiao Airport

PROBLEM - Shanghai Hong Qiao Airport wanted to increase passenger capacity and create an efficient air-rail interchange with both high speed and conventional rail services

SOLUTION - MVA provided :

- Analysis of future demands and requirements
- Advice on new road layout and parking facilities
- Detailed layout design for new high-speed rail station
- Design of horizontal and vertical pedestrian

Hong Kong International Airport - 20 Year Masterplan - Long Range Air Passenger and Cargo Forecasts

PROBLEM - HKIA wanted to update their Airport Masterplan to address a fast-changing business environment and new competitive challenges.

SOLUTION - MVA provided :

- Detailed exploration of the context and drivers of air traffic growth
- Forecasts disaggregated by geographical region and market segment
- Recommended comprehensive plan to upgrade and improve aviation and support infrastructure



Other worldwide aviation and airport studies carried out by MVA include:

- Hong Kong International Airport, Airport Master Plan 2030 Study.
- Hong Kong International Airport, Masterplan 2025-Transport Study.
- Hong Kong International Airport - Shenzhen International Airport Rail Link Pre-Feasibility Study, Hong Kong.
- Hangzhou International Airport - Terminal Area Master Plan Study, PRC.
- Traffic Consultancy Services for SkyCity, Hong Kong.
- British Airports Authority, Terminal 5 Public Inquiry, UK.
- Surface Access Demand Forecasts for a Potential Rail Link to New York's JFA Airport, U.S.A.
- Demand Forecasting & Strategy for New Ferry services at SkyPier, Hong Kong.
- Elevated People Mover System Feasibility Study, Hong Kong International Airport.
- Study of Policy Options to Reduce Aviation Emissions, Netherlands.
- Traffic Impact Assessment for Golf Course Development at SkyCity, Hong Kong.
- SkyPier Scheme Design Study, Hong Kong.
- Development of Simulation Model to Assess Performance & Costs for Low Cost Airline, U.K.
- Demand Forecasting for Heathrow Express Rail Link, U.K.
- Strategy Overview of Major Airport Developments, Hong Kong.
- Airport Railway - Planning & Design, Hong Kong.
- Transport Study for New Airport, Hong Kong.
- London Airports Surface Access Study, U.K.
- Financial Feasibility Study for Airport Expansion, Romania.

ASIA HEAD OFFICE

MVA Asia Limited MVA Hong Kong Limited

14/F West, Warwick House, Taikoo Place,
979 King's Road, Island East, Hong Kong
Tel : +852 2529 7037 Fax : +852 2527 8490
Email : info@mvaasia.com

EUROPE HEAD OFFICE

MVA Consultancy Limited

First Floor, Dukes Court, Duke Street,
Woking, Surrey GU21 5BH, United Kingdom
Tel : +44 (0)1483 728 051
Fax : +44 (0)1483 755 207
Email : info@mvaconsultancy.com

OTHER OFFICES

London, Edinburgh, Manchester, Glasgow,
Newcastle, Birmingham, Dublin, Paris, Lyon,
Marseille and Abu Dhabi

OTHER OFFICES IN ASIA

MAINLAND CHINA

MVA Transport Consultants (Shenzhen) Co. Ltd.

Room 905, Excellence Mansion, No.98, Fuhua 1 Road,
Futian Central Zone, Shenzhen, PRC Post Code : 518048
Tel : +86 755 3336 1898 Fax : +86 755 3336 2060
Email : info@mvaasia.com

- **Beijing Branch Office**

Room 701, Block C, Oriental Media Centre, No.4 Guanghua Road,
Chaoyang District, Beijing, PRC Post Code : 100026
Tel : +86 10 8557 0116 Fax : +86 10 8557 0126
Email : info@mvaasia.com

Beijing MVA Transport Consultants Co. Ltd.

Room 409, North Building, No. 60 Nan Li Shi Road, Xi Cheng District,
Beijing, PRC Post Code : 100045
Tel : +86 10 6804 3744 Fax : +86 10 6805 6180
Email : yanggp@mvabj.com.cn

VIETNAM

MVA Asia Limited - Vietnam Project Office

5/F., Perfect Building, 150 Bis Le Thi Hong Gam Street,
District 1, Ho Chi Minh City, Vietnam
Tel : +84 8 3821 7183 Fax : +84 8 3821 6967
Email : info@mvaasia.com

INDIA

Systra MVA Consulting (India) Pvt Ltd

B 307, Great Eastern Summit Sector - 15, CBD Belapur
Navi Mumbai - 400 614

Tel : +91 22 2757 2745 Email : info@mvaasia.com

Antriksh, Unit no. 301, 3/F, CTS Nos. 773, 773/1 to 7,
Makwana Road, Marol, Andheri East, Mumbai 400069

Tel : +91 22 2674 3134 Email : info@mvaasia.com

5th Floor Guru Angad Bhawan, 71 Nehru Place,
New Delhi 110019

Tel : +91 11 2641 3310 Email : info@mvaasia.com

3/F, C-131, Sector 2, Noida-201301, U.P.

Tel : +91 12 0432 6999 Email : info@mvaasia.com

SINGAPORE

Systra MVA Singapore Pte Ltd

#04-06 North Bridge Commercial Complex,
470 North Bridge Road, Singapore 188735

Tel : +65 6227 3252 Fax : +65 6423 0178
Email : info@mvaasia.com

THAILAND

Systra MVA (Thailand) Limited

37th Floor, Unit F, Payatai Plaza Building
128/404-405 Payathai Road, Thung-payathai,
Rajthwee, Bangkok 10400, Thailand

Tel : +662 216 6652 Fax : +662 216 6651
Email : info@mvaasia.com

Website : www.mvaasia.com



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