

# Pedestrian Planning and Design

## Planning & Design for Pedestrians

MVA offers specialist expertise in pedestrian planning, simulation modeling and design, ranging from demand forecasting and layout planning through to social research and interviews. Types of services offered:

- ▶ Trip generation, distribution and demand forecasting
- ▶ Simulation modelling
- ▶ Local and district network planning
- ▶ Pedestrian impact assessment
- ▶ Pedestrianisation schemes
- ▶ Transport Interchange planning and design
- ▶ Mass transit station layout optimization
- ▶ Retail malls, exhibition and entertainment complexes
- ▶ Attitudinal surveys and market research

## Specialist Services provided by MVA

**Rail Station Design.** MVA has considerable experience and expertise in capacity assessment and optimization for railway stations.

**Transport Terminals & Interchanges.** Multi-modal transport interchanges must often accommodate very high pedestrian volumes. MVA specializes in layout sizing, design and appraisal for such facilities.

**Retail & Entertainment.** MVA has recently developed advanced pedestrian simulation models to study the behaviour of patrons circulating within multi-level shopping and entertainment malls. These studies have assisted with architectural, facility and spatial designs.

**Airports.** MVA has expertise in planning and design for airport terminals and integration with connected transport modes.

**Modelling.** MVA has developed numerous pedestrian demand and simulation models using a variety of specialist software applications including VISSIM, PEDROUTE, TRIPS and STEPS.

**Road Safety.** MVA has extensive experience in the design of pedestrian systems and management measures to improve safety.

**Surveys.** Good and appropriate data is fundamental to good pedestrian planning. MVA has particular expertise in the design and management of many survey techniques, ranging from sampling

and video surveys to specialist interview and social behaviour surveys.

## Recent Experience on Pedestrian Studies

### Hong Kong

- ▶ MTR station capacity enhancement Quarry Bay, Wan Chai, Causeway Bay, Kowloon Tong, Tsim Sha Tsui and Mong Kok stations
- ▶ MTR and KCR station area planning and design Airport Railway, Tseung Kwan O Line, Ma On Shan Line, East Rail, Shatin to Central Line, North Island Line and West Island Line
- ▶ Pedestrian network planning for Kowloon Point Development and arts / cultural entertainment district
- ▶ Lok Ma Chau (HK / China) border crossing terminus
- ▶ Pedestrianisation Scheme in Tsim Sha Tsui
- ▶ Pedestrian planning for airport facilities, convention centres, sports and leisure complexes

### Korea & Taiwan

- ▶ Review of pedestrian designs and interchange provisions for High Speed Railway Stations

### Philippines

- ▶ Intermodal transfer terminal for provincial buses, with in excess of 300,000 passenger movements per day

### Singapore

- ▶ Harbourfront MRT interchange station design, including optimization of gates, stairs & escalators
- ▶ One North station planning & design optimization
- ▶ Serangoon Station layout and design assistance
- ▶ Pedestrian movement analysis for a new Polytechnic

### Thailand

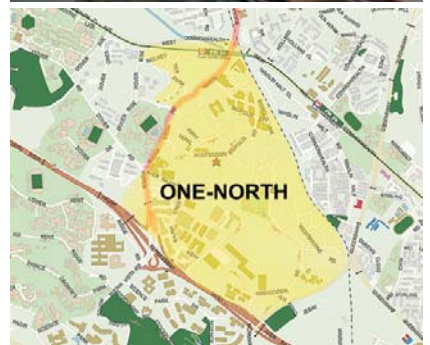
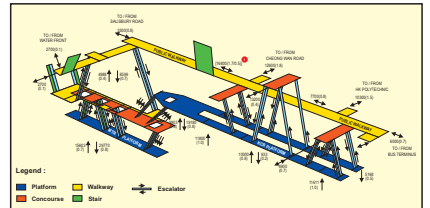
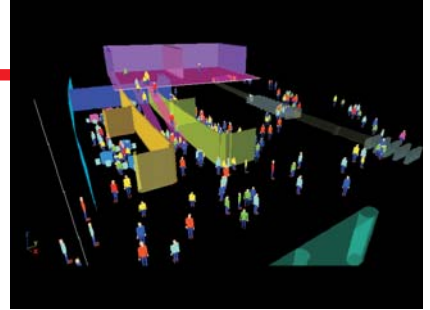
- ▶ Passenger origin-destination and route choice studies and surveys on BTS (Skytrain)

### China

- ▶ Planning of Public Square and pedestrian network for Guangzhou Liuhua and Suzhou railway station areas

### India

- ▶ Extensive local area designs and case studies for pedestrian improvement and road safety schemes in Mumbai, as part of a World Bank funded technical assistance project.



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