

Start: 2007
Finish: 2010 / 2011
Client: Swiss Re
Location: Shanghai

Shanghai Metro Project

The Shanghai Metro is one of the newest and most rapidly growing transit systems in the world, with its first rail line opening in 1995. The Metro will grow from the existing 400 kilometres of subway and light rail lines adding new rail lines and extensions, stations and platforms, growing to 22 lines with a rail network 877 km long.

Expansion of the Metro has been necessary for Shanghai to meet increasing commuter demands. There are now over three million commuters per day, with the demand growing by 30% from 2007 to 2008 alone. In addition to practical concerns and World Expo 2010 being held in Shanghai, the Chinese government is keen to promote the city as the nation's commercial and financial hub, and the standard for China's dramatic modernisation.

Our role on the project

Evans & Peck was employed by Swiss RE, one of the world's largest reinsurance companies, to provide risk management advice and services for the project. This advice was used by Swiss Re to communicate identified risk areas and recommended risk mitigation measures to the project owner.

Our team for this project comprised risk and tunneling experts and included:

- Peter Byford - Sydney, Melbourne and Hong Kong Director Operations, and risk expert
- Foo Hah – Shanghai Director and Project Assignment Manager

Risk management process

Recognition and management of risk is essential to the management of projects. Recognising that risk cannot be eliminated, successful organisations are those that effectively identify, assess and manage risk.

For rail lines 2 (Eastern Extension), 11 Evans & Peck completed risk surveys on the areas where construction had already commenced. Evans & Peck then conducted a risk workshop which included personnel from all areas of the project including project managers, technical

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specialists and key stakeholders. The workshop reviewed all the project risks and prioritised those that were considered the most extreme or catastrophic. Some of the common risk areas were geotechnical risks, tunnel fire as well as flooding. All of the accumulated information, including prioritised risks and associated mitigation strategies were logged into a risk register. The register allowed risk management to be tracked and for updates to be incorporated as the project progressed. The risk register was a bilingual database, written and accessible in both English and Mandarin. The team also consisted of bilingual professionals who aided in presentations and report formulation. By developing and demonstrating the risk management process Evans & Peck gave the client and contractor tools to continue this practice in the future.

Global Services

Evans & Peck is an international infrastructure-based advisory company that has supported governments and private organisations in the conception, development and delivery of major infrastructure projects throughout Australasia and the Middle East.

Whilst the Metro project was based in Evans & Peck's China office it involved extensive work with consultants in Australia. Evans & Peck was able to overcome these geographical constraints in order to draw on our global expertise.

As part of the WorleyParsons Group, Evans & Peck can also draw upon extensive technical, construction management and specialist resources able to provide assistance and advice on infrastructure as diverse as nuclear power to ports and geo-sequestration to rail transport.

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