

Rail portfolios

Arup's approach to rail projects is based on maximising financial and economic returns on clients' investments whilst recognising the regulatory frameworks within which they operate.

Clients are provided with a multidisciplinary team who achieve better, simpler and more efficient solutions.

The Arup rail group provides high value strategic, management, economic, planning, operational, engineering design, risk management and environmental services.

During the last 12 months in Australasia, Arup specialists have worked with government agencies and private operators of freight and passenger rail services. This work includes freight operational and commercial due diligence advice, recommendations for changes in safety management reporting and infrastructure design services.

Rail represents a major component of Arup's work worldwide, with a turnover of over A\$300 million in the financial year 2003/2004.

Inhouse geographical information systems (GIS) can be used for innovative online mapping applications and analysing the effects of change on railway assets.

Our key strengths include:

- Asset management plans
- Business plans
- Contract formulation
- Corridor and network capacity analysis
- Due diligence advice
- Economic analysis
- Freight
- Infrastructure maintenance
- Light rail
- Railway signaling
- Safety and risk evaluation
- Strategy analysis



Second Avenue Subway, New York

Using GIS, Arup created an online database for the subway, allowing engineers and project managers to access project data anytime, from anywhere around the world. At the completion of the project, the GIS will provide New York City Transit with a comprehensive project management tool.



Rail safety rules CBA

Arup formulated a new book of rules for the Director of Public transport safety. This involved a detailed review of existing rules and operating procedures, a cost benefit analysis and final recommendations that were accepted by the Public Transport Corporation.