

ProjectAIMS *Solutions*



MTR Corporation - Penny's Bay Line Electronic Project Management System

Profile

The principle business of MTR Corporation Limited is to develop and manage a world-class railway, together with property and other related businesses. Carrying an average of 2.3 million passengers on a weekday, the MTR has been confirmed by recent benchmarking studies as one of the world's finest railways for reliability, customer service and cost efficiency.

The Penny's Bay Rail Link (PBL) is an extension of the MTR system, connecting the Tung Chung Line to the proposed new Hong Kong Disneyland Theme Park (Theme Park) at Penny's Bay on Lantau Island. The PBL project will provide 3.4 km of new track and two new stations. The rail link is forecast to be complete in 2005 to meet the target opening date of the Hong Kong Disneyland Theme Park.



Challenge

The MTR Corporation always seeks continuous improvements to increase efficiency in the design and construction management process. The design submission, comment and approval process on drawings, documents and submissions involves several different parties and often requires a great deal of time and efforts. The MTR Corporation identified this need to streamline the "paper-model" process to better considerate and disseminate comments for revision purposes. They needed a robust, but easy to use Electronic Project Management System (EPMS) to instantly share, visualize and communicate project information amongst the whole project team and through out the project lifecycle from design to construction.



Solution

Following an exhaustive evaluation and gap analysis process, MTR Corporation selected ProjectAIMS Solutions. It was the responsibility of ProjectAIMS to supply, delivery, install, configure, implement, train and maintenance support the IT solutions/services that collectively meet MTR Corporation EPMS specification. MPS' Prolog software package from US was selected as the platform based on the fulfillment of functionality, reliability, scalability and adaptability requirements.

Through the self-hosted network and the deployment of Citrix thin-client application, the system connects the PBL project team to one another and to the database information, images, and documents they need. There were more than 96,000 number of files that totaled a size of 103 gigabytes within 30 months of the official launch from May 2001.

"We literally don't have to leave our desks. With the EPMS, all the information is at our fingertips." Kevin Man - Design Management Engineer of MTR Corporation said. "We also developed numerous standard reports. These reports were in a readable format and were very useful for MTR Corporation management staff. These reports saved processing time and allowed management to make better-informed decisions in real time."

Utilization

- Collaboration between Contract Manager/Design Manager/Headquarter/Detail Design Consultants/General Contractors
- Central repository of information, submissions and deliverables. (Contractor Submission Form/Engineer Response Form)
- Handling Drawing Management and issuing Drawing Amendment Sheet
- Issuing of letters, Document Transmission Form, and deliverables approval process
- Automate the Design Query and Request For Information
- Sharing and viewing Project Photos
- Monthly Key Performance Indicators' (KPI) generations
- Streamline the Design-, Contractor- and Material-Submissions/Approval Process
- Track all Request Inspection Surveying Check
- Create and maintain Site Diaries w/ Photographs
- Produce and log all Meeting Minutes
- Electronic Signature

Benefits

- Improved efficiency in workflows such as the RFI process
- Reduction in A1 hardcopies of design drawings and hardcopies of reports
- Central Archive
- Accessibility of information instantly available
- Re-use of information (knowledge management)
- Reduced e-mail traffic
- Simplified Project Records Collection



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