



TECHNICAL ENHANCEMENT OF TOPOGRAPHIC MAPPING

Client: Shanghai Municipal Institute of Surveying & Mapping, Shanghai, P.R.C.

Malone Given Parsons Ltd. was the prime consultant for the Technical Assistance Project (TA13) of the Shanghai Environment Project funded by the World Bank. The objective for Shanghai Municipal Institute of Surveying and Mapping (SMI) was to design and implement a comprehensive GIS database (i.e. Shanghai Base Geographic Information System - SBGIS) for 1:500 detailed topographic mapping, including development of a highly complex conceptual and physical data model, data standards and prototypes for conversion and maintenance of the database and basic mapping and query functions. SMI and SBGIS provided required GIS base data for the development of Shanghai Urban construction Information System (SUCIS) and played an important role in the the framework of SUCIS.

The major technical challenge was to design a new database structure to meet both the requirements of traditional CAD users and GIS users. The project consulting team also designs an overall technology architecture for SBGIS and helped the client to prepare the RFP for hardware and software procurement and also managed the international training program for both management and technical staff.