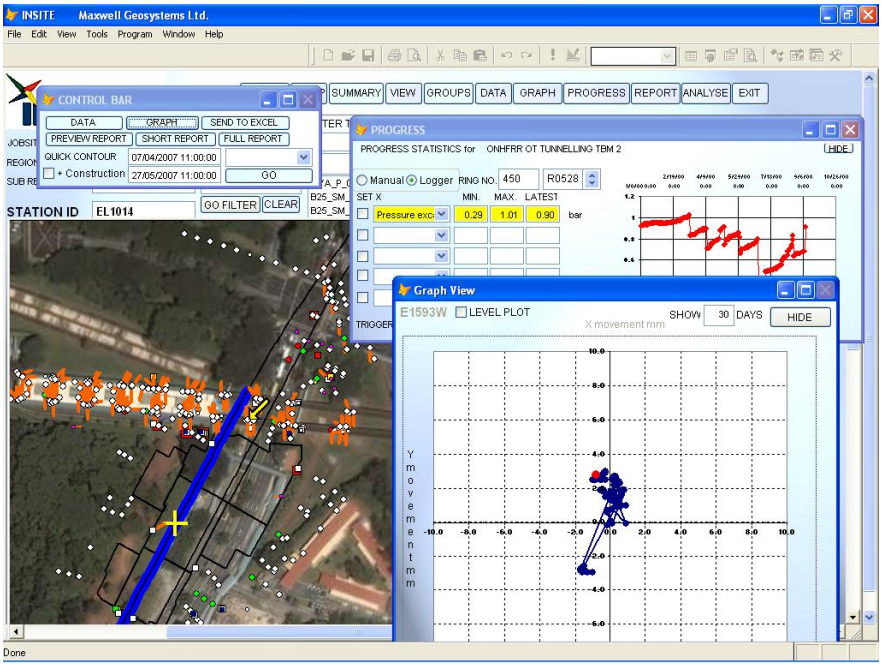
INSITE CASE HISTORY: SINGAPORE CIRCLE LINE STAGE IV



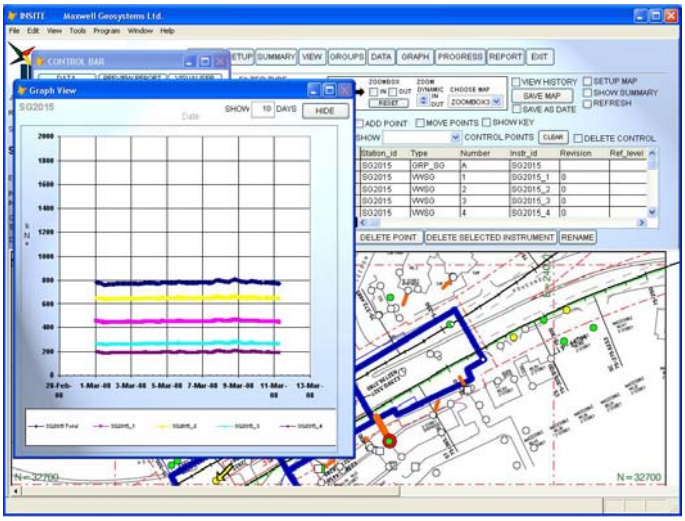
Client: LAND TRANSPORT AUTHORITY, SINGAPORE

Contractor: WHO HUP/SHANGHAI TUNNELLING/ALPINE MAYREDER JV

Number of Instruments: 4500 minimum Including over 1000 real time instruments. Frequency of reading – Daily and real time. Period – 4 years

Maxwell Geosystems Ltd have provided WSAjv with systems and staff to manage the huge amount of instrumentation data on Contract C855 of the Circle Line Stage IV construction. This important job involves the excavation of 6km of bored tunnel with Slurry and EPBM tunnel boring machines and the construction of four stations.

Almost every construction technique is being used: Bored tunneling, hand and small mechanized excavation using NATM principles, diaphragm walling, contiguous bored pile walls, sheet piling and strutting using Yongnam compound strutting.

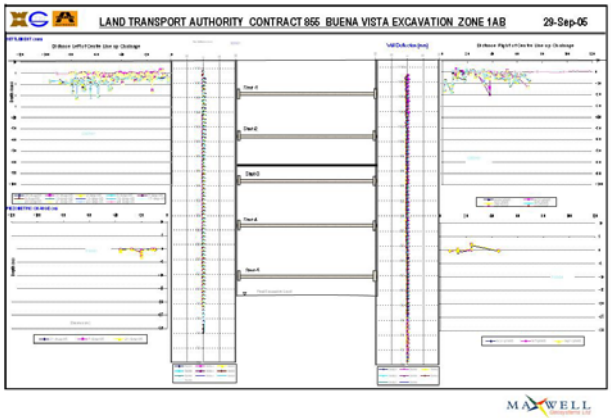


Many buildings and civil structures are affected by the works and a large amount of real time monitoring of construction is being undertaken.

HUGE DATA VOLUMES? NO PROBLEM: Currently almost 12 million records of data have been collected with more collected every 15 minutes. INSITE's built in archive capability means that the system remain usable even when data volumes grow to huge levels. Half way through the job we were required to change the naming for all the instruments to suit the owner's convention. This was no problem in INSITE but would have represented a huge headache using conventional systems.

INSITE has proved its ability to integrate the construction data and instrumentation data into one environment and to provide a valuable quality assurance check on data provided by third parties.

INSITE has been providing alarms and audit function for real time monitoring direct to mobile phones and email. The ability to produce interactive and fully featured summary reports in INSITE has been one of the main benefits to WSA.



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