

Project Profile

KVMRT 2 - Kuala Lumpur

Building on the success of MissionOS on Line 1 of the Klang Valley MRT, Maxwell GeoSystems were appointed systems supplier for the Sungai Buloh–Serdang–Putrajaya line (MRT SSP) with an expanded to scope to look after instrumentation and TBM Process Control.



The KVMRT Line 2 is one of three planned MRT rail lines under Klang Valley Mass Rapid Transit Project by MRT Corp. The Phase 1 between Kwasa Damansara and Kampung Batu expected to be operational by July 2021. The remaining line is expected to be operational in 2022.

The approved rail alignment is 52.2km in length, of which 13.5km is underground. A total of 37 stations, 11 of them underground, will be built. The line will stretch from Sungai Buloh to Putrajaya and will include densely populated areas Sri Damansara, Kepong, Batu, Jalan Sultan Azlan Shah, Jalan Tun Razak, KLCC, Tun Razak Exchange, Kuchai Lama, Seri Kembangan and Cyberjaya.

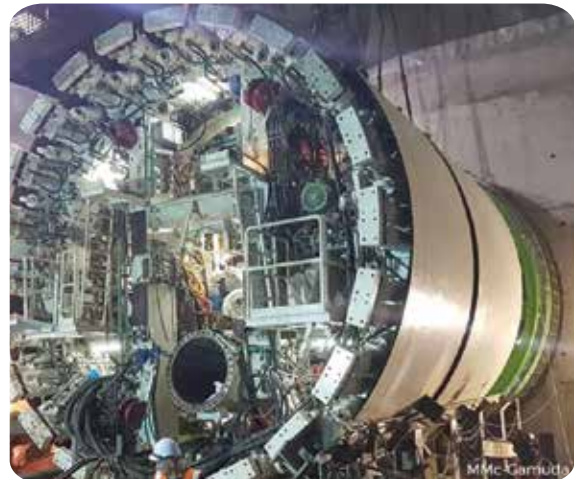
The difficult conditions meant they needed a high degree of automation for alarm response and interpretative reporting which MissionOS was able to give them. Its transparent and well set data manager enables the third party data suppliers to send and process data directly to the system resulting quality data quickly to the tunnel teams and the stakeholders.

The MissionOS system has been implemented by Gamuda to manage excavation progress and instrumentation data during the construction of the stations in retained excavations within difficult ground conditions.

Gamuda were keen to build on Maxwell GeoSystems' ability to manage effectively both ground investigation, instrument and tunnelling data in one platform and the configurability of the platform to their own requirements.

Maxwell GeoSystems' proprietary MissionOS integrates the construction and TBM data with the instrumentation data, providing a shared real-time "cause & effect" analysis resource, allowing project teams to predict and control the ground and ground-water movements.

Gamuda also highly valued the audit and post processes which have enabled their teams to review and assimilate huge quantities of data in very quick time reducing construction risk on the project.



Sector	Tunnelling		Location	Kuala Lumpur, Malaysia
Client	Gamuda/MMC		Budget	USD\$ 9.7 Billion
Technical Summary	Instruments	11,500	(30% in Real-Time)	
	TBM Drives	16	(Real Time Data Feeds)	
	Stations & Shafts	11		
	Instrument Records	33 Million		
	Users	433		
Status	Ongoing	(35% Complete)		