Sol Data

Urban construction works
Metro Line 4, Budapest

Monitoring system of karstic, ground and layer waters
BUDAPEST - HUNGARY

Real-time monitoring of water level variations during construction of the Metro line 4 in Budapest

Geoscope Web

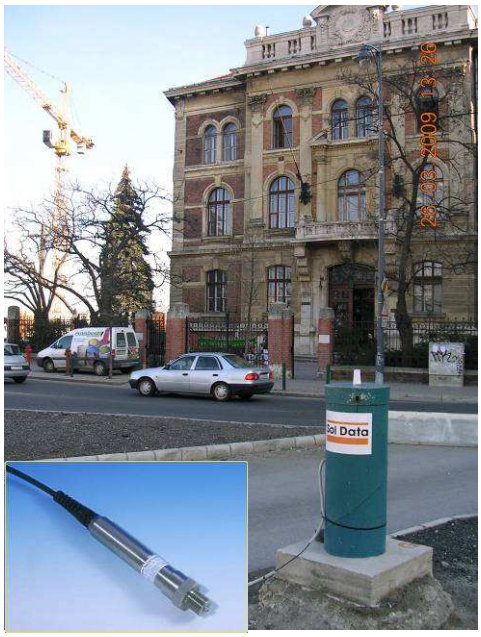
Over the past ten years, SolData has offered its professionalism to many metro constructions in the world by providing efficient and reliable monitoring systems to increase security and prevent risks during underground works (Barcelona, Amsterdam, Hong Kong etc.).

Our two major Hungarian projects are related to the construction of the Metro Line 4 in Budapest, which passes by the precious karstic waters of Buda.

The Consortium Mélyépterv - SolData - Mecsekérc is in charge operating the Monitoring system of karstic, ground and layer waters.
It provides real-time monitoring of water level variations. About 50 piezometers and flowmeters observe the influence of the construction works on the urban environment.
We observe the different water tables (the alluvial water table of the Danube and the deep geothermal water table) with our piezometers, located all around Budapest, where the maximal depth reaches 300 m.

Measurement values are recorded, stocked and visualised on Geoscope Web continuously and in real time. This unique SolData development makes measurement results immediately available for Engineers, allowing them to take necessary security measures if needed.

The monitoring system is completed by an alarm system: alarms are sent to recipients after analysis by e-mail.



CLIENT:	BKV ZRT.
CONTRACTOR:	SOLDATA HUNGEOD KONZORCIUM
ENGINEER:	EUROMETRO KFT.
CONTRACT PERIOD:	2006-2012

TECHNICAL DESCRIPTION:

- 50 piezometers
- Flowmeters
- Continuous visualisation of measurement results in rel time on GEOSCOPE WEB
- Alarm system