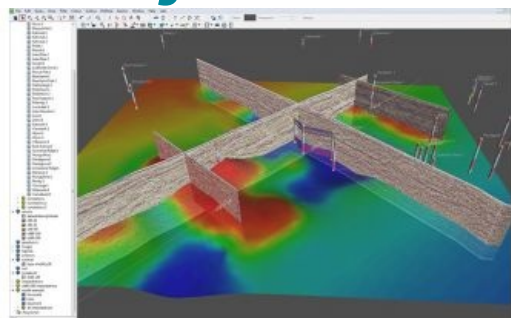


Maptek Software Used for Prestigious Infrastructure Project in Qatar



Eureka modelling software from 3D visualisation technology developer Maptek is being applied to the construction of a multi-billion transport infrastructure project in Qatar. The infrastructure project, managed by Qatar Rail, will create a rapid transit network consisting of light rail, the metro system and high-speed trains between Qatar and Saudi Arabia.

Qatar Rail uses [Eureka](#) to view, analyse and model regional geological and GIS data.

Eureka modelling and analysis tools allows to investigate critical aspects in relation to the conditions underground and structures to be erected, said Marin Griguta, director Civil Works of the QIRP Department at Qatar Rail.

Within Eureka data is amassed into a single, spatially coordinated database for creating detailed 3D geological and geotechnical structures – key for the planning of viable construction routes.

Flexibility of data export to GIS and CAD programs was a required software feature. Qatar Rail brings in CAD data, GIS (.shp) files, referenced and unreferenced images, borehole logs, downhole geophysics and recent seismic data to model within Eureka, Griguta added. Visualisation of the underground structures and geotechnical conditions helps guide their decisions as to how to proceed with design and construction, he continued. Eureka supports this aspect of the project in a way that traditional 2D tools could never deliver.

Maptek technology is designed to meet the rigorous demands of industry, handling massive datasets and enabling sophisticated 3D modelling. The tools are therefore ideal for use in large scale engineering projects such as the transport network being undertaken by Qatar Rail, said Gary Buchanan, operations manager, Maptek Europe.