

# 4D Control Software



Trimble introduced today a new version of its Trimble 4D Control software, the core of Trimble monitoring solutions, that combines Global Navigation Satellite System (GNSS) and optical technologies for real-time deformation monitoring applications. The software is ideal for monitoring dams, bridges, buildings, pipeline support piers, large-scale construction and excavation sites, underground and open pit mines, landslides, tunnels, and other structures.

Chris Gibson, vice president for Trimble's Surveying Division: "The new software allows users to leverage the optimal combination of sensor technologies to control, manage and analyse deformation measurements for a wide variety of engineering projects and alert

project staff of potentially unsafe conditions requiring action."

Trimble 4D Control software is a solution for both real-time and postprocessed monitoring. The fully scalable and versatile approach of the system makes it easy for surveying organizations to get started in monitoring. By leveraging surveying instruments and tools they already have, Trimble enables surveyors to customize a monitoring solution to meet the needs of even the most demanding applications.

Surveyors can now integrate positioning data from Trimble GNSS receivers to detect rapid motion and long-term movement trends. GNSS receivers can also be used in conjunction with optical target monitoring to examine the stability of control to ensure accurate optical measurements. The software works seamlessly with the Trimble NetRS GPS, NetR3 Reference Sensor, NetR5 or NetR8 GNSS receivers. The data from both the optical instruments and the GNSS receivers is combined, processed and analyzed in Trimble 4D Control software. Trimble 4D Control software monitors these measurements and triggers alarms if motion is detected, enabling project teams to take appropriate action to ensure a safe environment.

The new Trimble 4D Control software version 2.0 featuring integrated GNSS and optical measurement monitoring is expected to be available in March 2010 from Trimble's worldwide survey distribution network.