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Trimble Launches New Version of its 4D Control Software for Professional Monitoring of Structural and Environmental Changes

CAPE TOWN, South Africa, Oct. 12, 2015 /PRNewswire/ -- Trimble (NASDAQ: TRMB) introduced today the latest version of its deformation monitoring software—Trimble® 4D Control™ version 4.5. Trimble 4D Control software analyzes and reports on the condition and behavior of land and structures such as buildings, dams, mines and bridges. The latest software version features new add-on capabilities—Trimble eCognition® software integration, support for non-Trimble total stations and frequency domain analysis based on Fast Fourier Transform calculations—to better analyze complex data communicated from a broad range of sensors and enable better decision making.

The announcement was made at the International Symposium on Slope Stability in Open Pit Mining and Civil Engineering organized by the Southern African Institute of Mining and Metallurgy (SAIMM) and South African National Institute of Rock Engineering (SANIRE).

Trimble continues to expand the ways in which quantifying movement change can be automated using a range of geodetic, seismic and engineering sensors. The opportunities in automation play a significant part in effective project safety management in monitoring operations. Equally important is the analysis of complex data communicated via simple visual terms in order to understand the impacts of change.

"Trimble 4D Control can improve our customer's decision making process through real-time data acquisition and analysis with a focus on safety management," said Shawn Hilliard, business area manager of Trimble's Earth and Structural Monitoring Solutions. "The integration of Trimble 4D Control software with customer workflows significantly improves their ability to plan, forecast and predict maintenance needs."

The latest version 4.5 of Trimble 4D Control provides users with improved functionality for data processing, visualization and analysis in Trimble 4D Control Web. Capabilities include custom views, Webcams, 3D scenes and high-frequency charts to examine complex data in versatile views and present findings in a meaningful way.

Automatic Interpretation of Geospatial Data

Trimble 4D Control automates the interpretation of radar images by integrating the Trimble eCognition software. By streamlining the time for the analysis, Trimble 4D Control represents an effective change detection solution. Surface movements in a series of radar images are automatically detected and trigger alarms to the system operator.

Complete Sensor Management

In addition to supporting Trimble total stations with FineLock™ technology, Trimble 4D Control users can also add optional support for non-Trimble total stations to provide in-depth measurement and complete sensor management.

Frequency Domain Analysis

Trimble 4D Control software can support optional Fast Fourier Transform (FFT) calculations to transform a real-time domain signal into a frequency domain representation. A modal analysis in the frequency domain detects how the characteristic of a physical object changes over time and can warn of impending failure.

Trimble 4D Control Room Web

Trimble 4D Control Room Web is a stand-alone Internet-based application that allows users to monitor information associated with one or more Trimble 4D Control version 4.5 installations at a glance. The information presented in Trimble 4D Control Room Web is published by an unlimited number of Trimble 4D Control projects.

Availability

Trimble 4D Control version 4.5, including eCognition, and the options to add non-Trimble total station, FFT and link to Trimble 4D Control Room Web are available now from Trimble's worldwide Infrastructure Distribution Network.

Visit: <http://www.trimble.com/Infrastructure/Trimble-4D-Control.aspx> for more details.

About Trimble's Monitoring Solutions

Trimble's portfolio of advanced sensor solutions, application software and state-of-the-art recorders provide proven integrated tools for monitoring and earth systems applications. The solutions allow organizations to monitor the integrity of a building, dam, mine, bridge and other structures or natural hazards monitoring the seismic activity for a project and surrounding communities. Trimble's customizable and scalable monitoring solutions harness the power of GNSS, optical, seismic, engineering and geotechnical sensors to provide in-depth measurement, data analysis and management tools to help organizations meet a range of project requirements from periodic deformation measurements to real-time automated monitoring solutions.

For more information about Trimble Monitoring Solutions, visit: <http://www.trimble.com/infrastructure/monitoring.aspx>.

About Trimble

Trimble applies technology to make field and mobile workers in businesses and government significantly more productive. Solutions are focused on applications requiring positioning or location—including surveying, construction, agriculture, fleet and asset management, public safety and mapping. In addition to utilizing positioning technologies such as GPS, lasers and optics, Trimble solutions may include software content specific to the needs of the user. Wireless technologies are utilized to deliver the solution to the user in the field and to ensure communication between the field and the office. Founded in 1978, Trimble is headquartered in Sunnyvale, Calif.

For more information, visit: www.trimble.com.

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