Trimble to Collaborate with Pulsar Informatics to Deliver Fatigue Monitoring Solution for Transportation Industry

Collaboration Focuses on Improving Safety and Preventing Fatigue-Related Accidents

SUNNYVALE, Calif., Oct. 29, 2018—Trimble (NASDAQ: TRMB) and Pulsar Informatics, Inc. today announced a collaboration to deliver a new fatigue monitoring and risk management solution for the transportation industry, available as part of Trimble's Safety AnalyticsTM dashboard. The fatigue risk management solution enables fleets to understand how fatigue is directly affecting individual driver behavior, and provides information about driver fatigue levels as well as historical data to coach and prevent potential fatigue risks in the future.

Driver fatigue is among the top causes of large truck crashes, with the Federal Motor Carrier Safety Administration (FMCSA) estimating that driver fatigue may be <u>an associated factor in 13 percent of accidents</u> involving a commercial truck. While trucking companies carry insurance coverage, if a fatigued driver causes an accident in the course of employment, the carrier can be held responsible. Similarly, carriers may also be held accountable if a fatigued driver does not follow federal regulations on rest breaks.

"Driver fatigue is a top concern for fleets and by collaborating with Pulsar to integrate fatigue monitoring into our Safety Analytics dashboard, carriers will receive data to help improve driver coaching and potentially protect fleets from liability," said Jim Angel, vice president of Video Intelligence Solutions for Trimble Transportation Mobility. "Our Safety Analytics dashboard is designed to make risk management decisions easier for fleets by sampling data that's already being collected and is not intrusive to drivers."

Trimble's Safety Analytics dashboard aggregates driver data across an entire fleet to highlight drivers in need of coaching. With the integration of Pulsar's Trucking Fatigue Meter™ technology, the dashboard will use Hours of Service (HOS) and Trimble's Onboard Event Recording® (OER) data to identify driver sleep and fatigue risk patterns that lead to degraded performance. By providing a clear representation of this information, fleet managers and safety managers have an enhanced ability to coach the driver and assess the situation to potentially prevent a safety incident.

Pulsar's industry-leading fatigue monitoring solutions have been developed with funding from the U.S. Department of Navy, U.S. Department of Transportation Federal Motor Carrier Safety Association, NASA, Federal Aviation Administration, U.S. Department of Defense and other prominent government organizations. Pulsar has commercial products serving the aviation, petrochemical, and trucking industries; all mission critical and safety centric workplaces.

"Pulsar Informatics is excited to combine our deep expertise in fatigue risk management with Trimble's unmatched knowledge of the transportation industry," said Daniel Mollicone, PhD, CEO Pulsar Informatics. "Together, we can provide fleets with a unique solution to help managers identify and mitigate risks that can protect drivers and carriers while also improving safety on the road for everyone."

The collaboration between Trimble and Pulsar Informatics was announced during the 2018 American Trucking Associations (ATA) Management Conference & Exhibition in Austin, TX. For more information about Trimble Safety Analytics, visit: https://mobility.trimble.com/fleet-solutions/video-safety-solutions.

About Pulsar Informatics

Pulsar Informatics is a privately held technology company specializing in systems that help organizations reduce fatigue-related risk and achieve peak performance. Founded in 2001, the company has made seminal contributions to the scientific understanding of fatigue and is recognized as a leader in the delivery of fatigue risk management solutions in operational settings. To learn more, visit: www.pulsarinformatics.com.

About Trimble Transportation

Trimble Transportation is multi-modal and provides solutions for the long-haul trucking, field service management, rail and construction logistics industries to create a fully integrated supply chain. In trucking, Trimble provides enterprise and mobility solutions focused on business intelligence and data analytics; safety and regulatory compliance; navigation and routing; freight brokerage; supply chain visibility and final mile; transportation management and fleet maintenance. With an intelligent ecosystem of products and services, Trimble Transportation enables customers to embrace the rapid technological evolution of the industry and connect all aspects of transportation and logistics—trucks, drivers, back office, freight and assets. Through the combined legacy of ALK, PeopleNet, TMW Systems and 10-4 Systems, Trimble Transportation delivers an open, scalable platform to help customers make more informed decisions and maximize performance, visibility and safety. For more information about Trimble Transportation, visit: https://www.trimble.com/transportation-logistics.

Trimble is transforming the way the world works by delivering products and services that connect the physical and digital worlds. Core technologies in positioning, modeling, connectivity and data analytics enable customers to improve productivity, quality, safety and sustainability. From purpose built products to enterprise lifecycle solutions, Trimble software, hardware and services are transforming industries such as agriculture, construction, geospatial and transportation and logistics. For more information about Trimble (NASDAQ:TRMB), visit: www.trimble.com.

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