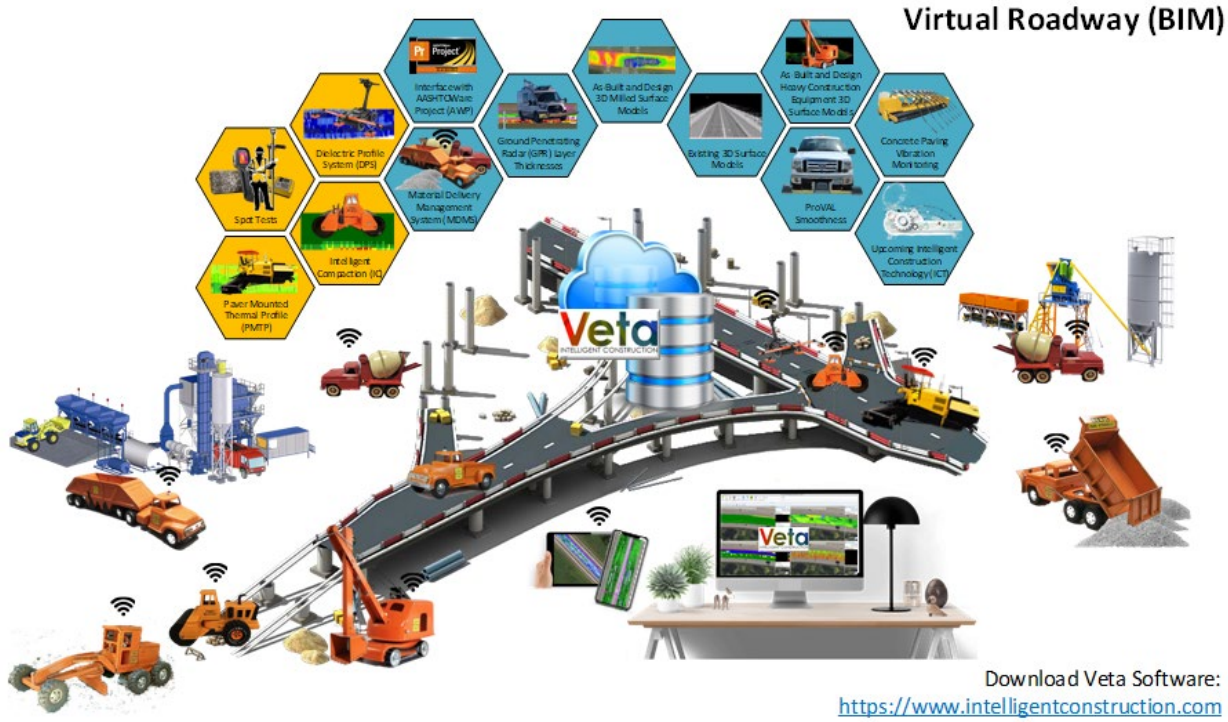
ISIC Webinar Series - No.006

How Material Delivery Management System (MDMS) Benefits Paving Quality

Time/Date 9 AM to 11 AM US CST (2 PM WET), Wednesday, April 16th, 2025
Venue GotoWebinar



Moderator

Dr. George K. Chang, P.E., President of ISIC; Transtec Group, USA

Speakers

Rebecca Embacher, M.S., P.E., MNDOT, USA
Curt Dunn, NDDOT, USA
Brent Carron, Valley Paving, USA

Panelist

All speakers. Monica Jurado, FHWA, USA. Jim Hutchins, Fleetwatcher by AlignOps, USA. TBA, CommandAlkon, USA.

Description

Material delivery management system (MDMS) is a standardization effort to manage all data associated with the delivery of material to a paving contract, including Source (E-Ticket), Loading and delivery event, Testing and contract administration, Agency field verification, Hauler. This webinar will provide the background of the AASHTO MDMS standard and Veta—MDMS implementation. Speakers from the Department of Transportation (DOT) and contractors will also share their perspectives and demonstrate case studies on how MDMS helps them leverage the values of all intelligent construction technologies to diagnose paving issues and make timely corrective actions to improve pavement qualities. We will also have a panel discussion that includes all speakers, FHWA, and vendors' representatives.

Registration

Registration is free. We will provide certificates of 2 PDH or 0.4 CEU for the participants.

REGISTER NOW

Agenda

Time (US CST)	Topic	Speakers
09:00 – 09:02	Introduction of Speakers	George Chang
09:02 – 09:30	MDMS Background and Implementation	Rebecca Embacher
09:30 – 09:50	DOT's Perspective	Curt Dunn
09:50 – 10:10	Contractor's Perspective	Brent Carron
10:10 – 11:00	Panel Discussion	All speakers Monica Jurado Jim Hutchins

Speakers' Bios

Rebecca Embacher, Advanced Materials and Technology Engineer, MNDOT, USA

Ms. Embacher earned her M.S. in Civil Engineering at the University of Minnesota. She has worked as a research engineer at the University of Minnesota and the Minnesota Department of Transportation, a pavement engineer at American Engineering and Testing, Inc., and an Assistant Grading and Base Engineer at the Minnesota Department of Transportation. She is currently the Advanced Materials and Technology Engineer at the Minnesota Department of Transportation. Her areas of experience are related to the physical and mechanical properties of concrete, pavement design and preservation, seasonal load limits, research and development, earthwork/embankment, and pavement construction, and during the past 15 years – the implementation of geospatial technologies for evaluating paving and grading and base material properties before and during construction. This includes technologies such as machine guidance for excavation, grading, milling, and paving; intelligent compaction on reclamation and bituminous applications; paver-mounted thermal profiling; e-construction / e-ticketing; digital test rolling; determination of Veta features; and more.

Curt Dunn, Highway Materials Highway Materials Engineer, NDDOT, USA

Curt graduated from the University of North Dakota in 1995 with a Bachelor of Science degree in Civil Engineering.
Curt began his career as a Transportation Engineer with the North Dakota Department of Transportation (NDDOT) in the Materials and Research Division.
Curt was employed at Materials and Research from 1995 to 1999. From 1999 to the present, he has worked in the Grand Forks District as a highway materials engineer.
Curt is a Registered Professional Engineer.

Brent Carron, President, Valley Paving, USA

Brent Carron is the President of Valley Paving, Inc., located in Shakopee, MN. He has been in the asphalt industry for 28 years and has been working with thermal and IC technologies since 2012. He is also an industry partner with MnDOT to develop the rollout of the MDMS platform for contractors.

Panel Members' Bio

Monica Jurado, Pavement and Material Engineer, FHWA, USA

Monica Jurado has over 15 years of experience with the Federal Highway Administration as the lead for the Nondestructive Evaluation (NDE) for Pavement's Initiative, working closely with NDE technologies such as the MIRA, GPR MiniXT, and the Portable Seismic Property Analyzer (PSPA) through the Mobile Concrete Technology Center Equipment Loan Program (MCTC). Monica is currently leading the deployment of the Ground Penetrating Radar (GPR) for density measurements with the Density Profiling System (DPS) with the Mobile Asphalt Technology Center (MATC) Equipment Loan Program. Ms. Jurado received her bachelor's and master's in civil engineering from the University of Texas at El Paso.

Jim Hutchins, CTO, Fleetwatcher by AlignOps, USA

Jim Hutchins serves as Chief Information Security Officer at AlignOps, bringing over three decades of experience in SaaS technology and a strong focus on information security. With a lifelong passion for innovation in software solutions. Jim joined FleetWatcher, now an AlignOps company, in 2017 as CTO, overseeing technology strategy and security initiatives as the company more than quadrupled in size. Jim earned a BS in Computer Science from IUPUI, where he has served on the Science Alumni Board of Directors since 1999. Recognized for his contributions to the field, he was named J. Everett Light Career Center Alumni of the Year (2007), CTO of the Year by the Indianapolis Business Journal and TechPoint (2015), and received the Maynard K. Hine Award from IUPUI (2018).

TBA, CommandAlkon, USA
Mugshot and bio

Barry Honig , TruckPay.
Mugshot and bio

TBA 1

TBA 2

Moderator's Bio

Dr. George K. Chang, PE, President of ISIC; Director of Research, Transtec Group, USA

Dr. Chang has been a world expert on pavement smoothness and intelligent compaction/construction technologies for 3 decades. He founded the International Society for Intelligent Construction - ISIC (www.IS-IC.org). His research, teaching, specification development, and software tools have helped make significant technological advancements in the above fields. The websites he develops and maintains, Profile Viewing and Analysis - ProVAL and Intelligent Construction Technologies - Veta, have become a one-stop-shop for pavement smoothness and intelligent compaction (IC)/construction technologies (ICT). Since 2007, he has led the IC/ICT implementation efforts worldwide, including in the US, Europe, China, Australia etc.