



Joint Working Group Webinar Series
December 2018: Transportation Working Group

Wednesday, 12 December 2018
11:00am – 12:00pm ET

A Project Showcase of the Systems Engineering Efforts and Minnesota Statewide Regional ITS Architecture Update

The United States Federal Highway Administration (FHWA) has established Rule 940 to foster integration of regional ITS systems through proper use of Systems Engineering process. The Minnesota Department of Transportation (MnDOT), with the help of the FHWA Minnesota Division Office and AECOM, developed and implemented a programmatic process to promote the consistent use of systems engineering to facilitate conformity with Rule 940. This process features the use of the Minnesota Statewide ITS Architecture as a starting point and follows the systems engineering principles to guide all ITS stakeholders in Minnesota with the deployment of integrated and interoperable ITS systems. This presentation provides a high-level overview of the programmatic process. It also showcases a successful story with using systems engineering to develop and procure a centralized traffic signal control system that met the project needs; maintained a statewide vision for future expansion, replication and interoperability; and enhanced MnDOT’s financial effectiveness.

Presenters:

Rashmi Brewer, PE - ITS Project Manager, Minnesota Department of Transportation



Rashmi Brewer is an ITS Project Manager for the Minnesota Department of Transportation, Office of Connected & Autonomous Vehicles (CAV-X). She graduated with a Bachelor’s of Science degree in Civil Engineering from the University of Minnesota and is a registered professional engineer. Her combined work experience of over 25 years’ includes design, rail, traffic, construction, and Intelligent Transportation Systems (ITS) planning, research, development and deployment projects. Rashmi serves as MnDOT’s statewide technical lead for the Regional ITS Architecture & ITS Systems Engineering by providing project support, internal control, process oversight, development, management and maintenance to ensure MnDOT and local agencies fulfill the delegated responsibilities for compliance of 23 CFR 940.

Ming-Shiun Lee, PhD, PE - Senior Engineer, ITS & Traffic Engineering, AECOM



Ming-Shiun Lee is a project manager at AECOM Minneapolis office. He is seasoned transportation engineer, with more than 22 years of experience in Intelligent Transportation Systems (ITS), traffic engineering, and transportation planning. His professional interests include applications of technology to transportation systems; transportation system operations, management and evaluation; and linking transportation planning and operations. Ming has involved in a large number of ITS programs and projects across the U.S. His activities include providing program management support at federal, state and local levels and conduct studies in the areas of ITS planning, ITS architecture, systems engineering, ITS design, implementation, operation, maintenance, and evaluation.

Upcoming 2018-19 Joint WG Webinar Wednesdays @ 11am EST

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