



Mapping Leaders Forum

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9:00AM - 5:00PM

ESRI R&D CENTER
ARLINGTON, VA, USA

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Transportation*

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PRESENTATION ABSTRACT

Making One out of Many: How US DOT facilitates creation of nationwide geospatial datasets

US DOT coordinates with state and local governments, as well as industry, to develop and/or aggregate nationwide geospatial datasets. As an example, we will explore the challenges related to creating the Work Zone Data Exchange. Working with state and local governments and industry, US DOT is developing the Work Zone Data Exchange Specification. The specification enables infrastructure owners and operators to make harmonized work zone data available for third party use. The intent is to make travel on public roads safer and more efficient through ubiquitous access to data on work zone activity. Specifically, the project aims to get data on work zones into vehicles to help automated driving systems (ADS) and human drivers navigate more safely. Disparate data models, formats, completeness, and quality were addressed during the creation of the specification.

BIO

Amy Nelson is the Deputy GIO at the U.S. Department of Transportation. She manages US DOT's geospatial response during disasters, leads DOT's implementation of federal geospatial regulations and guidance including the Geospatial Data Act, is the lead author of US DOT's GIS Strategic Plan, manages US DOT's geospatial community, and assists with the National Address Database and Work Zone Data Exchange projects.

Ms. Nelson has fifteen years of service in the federal government, including thirteen years as the Pipeline and Hazardous Materials Administration's GIS Manager. She holds a B.A. in Geography from the University of Mary Washington and an M.A. in GIS from Clark University.