



ILLINOIS STATEWIDE CONGESTION ANALYSIS STUDY



CLIENT:
 Illinois Department of Transportation
 May 2014 to May 2016

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CONTRACT:
 PTB 168, Item 29
 Prime Contract: \$1.49 million

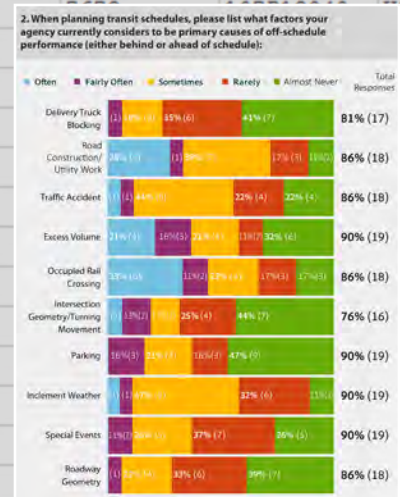
- PROJECT PURPOSE:**
- Evaluate Economic and Demographic Drivers of Travel Demand
 - Assess Performance Measurements Using Multiple Sources of Data
 - Analyze and Model Alternatives to Mitigate Congestion

In the Illinois Statewide Congestion Analysis Project, DAMA applied its experience and skills in travel demand modeling, VISSIM corridor and intersection modeling, SQL and SAS data analysis, GIS analysis and database management, transit operations, freight logistics, Intelligent Transportation Systems (ITS), survey analysis, and stakeholder engagement to identify locations where congestion occurs and to conduct alternative analyses of methods to address those conditions.

Our evaluation of freight corridor performance qualified DAMA for a presentation at the Transportation Research Board 2016 and for an article in the *Journal of the Transportation Research Board*.

DAMA used data sources from regional planning organizations, the Illinois Department of Transportation (IDOT), the National Performance Management Research Data Set (NPMRDS), the Federal Highway Administration (FHWA), and the U.S. Census. DAMA has developed tools and methods using Amazon Web Services (AWS) and the open source database PostgreSQL to combine data from these sources, identify performance measurements, and report conditions across multiple modes.

Project tasks involved the creation and use of models to evaluate and balance funding and context requirements for transportation projects; the identification and evaluation of existing and future transportation demand and needs; and stakeholder outreach to the general public, transportation agencies, transit and freight operators, and planning organizations.



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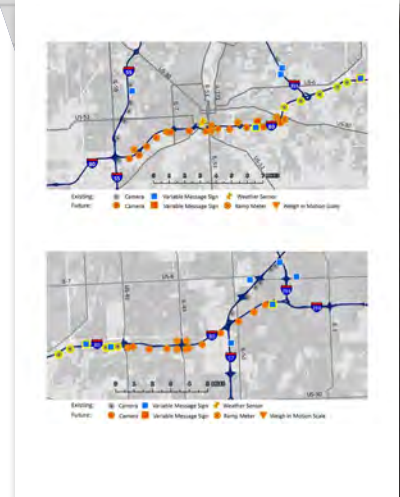


IMAGE SOURCE: ESRI, Inc., and Others. "Basemap: World Imagery." ArcMap 10.3 PC Software. Retrieved 30 October 2015.

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