

Illinois Statewide Congestion Analysis Study - Project Prioritization



CLIENT: Illinois Department of Transportation

CONTACT:

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CONTRACT: PTB 168, Item 29 - \$1.49 million

PROJECT PURPOSE:

- Develop an Assessment Tool to Prioritize Project Decisions
- Improve Information Available to Manage Multi-Modal Transportation Investments
- Estimate Impacts of Project Decisions and Funding Constraints
- Incorporate Performance and Policy Factors to Assess Tradeoffs

DAMA Consultants, Inc., developed a multi-modal project selection and prioritization tool during its work on the Illinois Statewide Congestion Analysis Study. The tool uses agency priorities and project attributes to select among multiple types of projects across different modes. Agency priorities determine the attributes to give the highest weights and the overall improvement areas that the agency is seeking to optimize.

The tool produces lists of project selections that meet agency priorities and constraints and that are able to align with available funding sources. The tool also provides charts that indicate the overall project categories and the funding split between different bureaus and modes within the agency.

The tool estimates the impacts of project selection on overall agency goals and how additional resources and funding could advance agency goals.

The tool uses spreadsheet inputs and runs on MS-Excel VBA.

Project Information			Scenario		
ProjectName	Description	Cost	BottomUp	TopDown	Min Score
-80	Add Truck lane, Ramp metering	\$60,000,000	No	No	No
-80	Add General Iane , Ramp metering, ITS Technology	\$12,000,000	No	No	No
-80	Ramp Metering ControlITS Technology	\$ 4,500,000	No	No	No
-80	Add Toll Truck lane , Ramp metering, ITS Technoloy	5 2,000,000	Yes	Yes	Yes
-39	Ramp Metering & ITS Technology	\$ 500,000	Yes	Yes	No
-39	Add A lane with ITS Technology	\$17,000,000	No	No	No
-55	ITS Technology	\$ 1,000,000	No	No	No
MC_Transit	ITS Deployment and access treatment	\$ 1,000,000	Yes	Yes	Yes
MC_Transit	ITS Deployment and access treatment	\$ 750,000	No	No	Yes
IMC_Transit	ITS Deployment and access treatment	\$ 750,000	No	No	Yes
IMC_Freight	ITS Technology for Frieght Connector	\$ 750,000	No	No	No
MC_Freight	ITS Technology for Frieght Connector	\$ 750,000	No	Yes	No
MC Freight	ITS Technology for Frieght Connector	\$ 750,000	No	No	No

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