

Agency Operations Plan 2015-17

Agency:

North Dakota Department of Transportation

Line of Business: (optional)

Transportation

Contact:

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Technology Strategy:

To be a leading state agency, providing innovative technology advancements and services which will allow our stakeholders and employees quicker and more reliable information to make better decisions.

Technology Infrastructure:

Those technologies that are unique to the DOT are:

ENGINEERING :

GIS (Geographic Information Systems) used and designed to capture, store, manipulate, analyze, manage, and present all types of geographical data.

ITS (Intelligent Transportation Systems) to provide innovative services relating to different modes of transport and traffic management and enable various users to be better informed and make safer, more coordinated, and 'smarter' use of transport networks.

TERRASHARE a client/server, enterprise geospatial content access solution, enabling the management and structure of data files (image data, elevation data, as well as other georeferenced and non-georeferenced data)

MDSS / AVL (Maintenance Decision Support System / Automated Vehicle Locator)

Bentley Software Products and AASHTOWare are two leading engineering software companies that work directly with the transportation industry.

TRANSPORTATION / COMMUNICATIONS TO OUR CITIZENS:

Driver's License and Vehicle Registration and Titling Systems

Commercial Driver's License Information System (CDLIS) and the National Driver Register (NDR) to ensure the driver is not disqualified and does not possess a license from more than one jurisdiction.

PRISM (Performance and Registration Information Systems Management) program was developed to meet the challenge of reducing the number of commercial vehicle crashes.

Radio Communications – 42 base towers supporting the entire state for public safety communications

Planned Activities:

Deputy Director for Driver and Vehicle Services

- ONGOING LARGE PROJECT from 13-15 Biennium : Rewrite of the DOT's current MV System (Motor Vehicle System Redesign)

Deputy Director for Business Support

- AssetWorks' Key Valet Automated Motor Pool (est. \$158,942 including approx. \$80,000 of equipment)

Deputy Director for Engineering

- LARGE PROJECT : Maintenance Management System (MMS) to assist in Asset Management (AM) (est. \$589,000)
- Fund Management Software (\$169,433)

Technologies being considered or investigated:

Additional AASHTOWare products that would replace some of the existing systems within the DOT. This software mainly deals with roads, bridges, and other transportation related type software.

Driver's License Rewrite – replacing of the 1984 COBOL based system currently residing on the state's mainframe. New system would need to incorporate Motor Vehicle information as well to create a consolidated database of like information.

Mobile Applications to support on-line renewal and registering of vehicles (in process) and public inquiries for wait time and other general customer flow management type improvements. Also looking into a pin-point application that would take a photo of the situation which would be sent back to the NDDOT, reporting the location and a visual assessment (ie.. potholes, road repair, downed signage, impassable roads, roadkill, etc...).