# A.I.I. | AASHTO Innovation Initiative

MONTANA
MDT★
DEPARTMENT OF TRANSPORTATION

Serving you with pride

Policy Direction
• Statewide Transportation Plan
• Other

Corridor Study/Plan
• Improvement Option Analysis
• Needs And Objectives

NEPA/MEPA

Project Implementation

Montana Rest Areas - Travinfo

Montana Public At-Grade Railroad Crossings

MDT Fuel Tax Routes
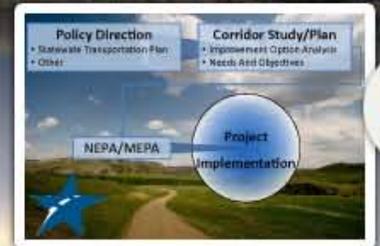
MDT Corridor Studies

## FAST FACTS:

## MDT AGOL

**STATE:**

Montana

**PROJECT/PLATFORM NAME:**

MDT AGOL

**URL:**

http://mdt.maps.arcgis.com/home

**PRIMARY BENEFITS:**

Can provide MDT and its stakeholders with an intuitive workspace in which to collaborate on planning and departmental efforts, internally as well as with other state agencies, local governments and federal agencies. • Facilitates better working relationships, enhances communication and reduces duplication of work. • Allows users to make more informed decisions by providing a visual display of spatial and tabular data. • Does not replace existing infrastructure and work processes, but is a complement to existing services. Provides a "window" into the existing data structure. • Users can quickly turn data into valuable information by creating intelligent, interactive web maps and sharing them privately or publicly with decision-makers. • Makes spatial data available through an interactive web map, a web app and a mobile app without the need for application development and programming. That means it is accessible to users any time on any operating system.

**DEVELOPMENT PROCESS:**

**Contact date:** October 19, 2012

**Initial data population:** January 2013 to present (ongoing)

**Tech assistance/TIG team workshop date:** December 11, 2012

**Primary workshop attendees:** MDT Information Services Division; MDT Engineering Division, MDT Planning Division; MDT Maintenance Division; Montana Natural Resource Information System from Montana State Library

**UNIQUE FEATURE:**

MDT is approaching this as a department-wide adoption by including a diverse group in the early stages of testing and implementation. These phases require effort and cooperation to satisfy the needs of the stakeholders throughout MDT. Developing this tool has pushed our department to look at data quality in existing systems and how that relates to the publication of data spatially.

**POPULAR MAPS:**

**MDT Tentative Construction Projects**–This web map shows locations of MDT's Tentative Construction Projects for 2013-2017. MDT's Tentative Construction Program (TCP), a project scheduling process, identifies the general location of highway construction projects planned within the next five years. http://www.arcgis.com/home/webmap/viewer.html?webmap=bdf4cc9d9f2a4f328cd8fa9c78bd7b35&extent=-124.7455,42.3735,-95.39,50.8465

**Public At-Grade Rail Crossings**–This web map displays public at-grade railroad crossings in Montana and the type of protection at each crossing with a link to any available photos of the crossing. http://www.arcgis.com/home/webmap/viewer.html?webmap=218f3b14b0ad45359d58d236f4f7a0f1&extent=-124.8807,42.2968,-95.5252,50.7809

**MDT Traffic Counts**–This web map shows locations of MDT's Traffic Counts. The service displays three years of traffic data. New traffic data will be loaded to the site each year–usually in early June. It also links users to existing traffic count applications. http://www.arcgis.com/home/webmap/viewer.html?webmap=e059bdd014e84946a8322687827f4426&extent=-124.7221,42.4286,-95.3666,50.8936

**DOCUMENTS PRODUCED:**

**AGOL SWOT Analysis**–Assesses Strengths, Weaknesses, Opportunities and Threats for the deployment of ArcGIS Online within agency

**AGOL Overview**–High level overview including MDT benefits, uses, steps to implement AGOL, operations, maintenance and action items.

**AGOL Test Plan**–Simplified document containing MDT's strategies for testing AGOL for internal and external use. This includes test items, features to be tested, testing risk register, approach/strategy, test data and personnel, deliverables and communication plan.

**LESSONS LEARNED TO DATE:**

**Pre-Plan for Deployment**–Once capability is demonstrated, users want the technology right away. Pre-plan for deployment early. If the concept is presented in early stages of testing, be clear that program is in development and ensure proper documentation. Bring the information services group on-board and engage it, alongside user group, in planning for emerging technology.

**Document Processes, Clarify Roles and Responsibilities**–Documentation for processes is essential even though application is easy to learn and use. Develop early how-to write-ups or links to existing ESRI documents for end users in order to avoid frustration or repetitive questions. An understanding of roles, responsibilities, and the perception of risk associated with data dissemination must be clear from the start and involve all stakeholders.

**Remain Inclusive At Every Stage**–Create plan for development and deployment with support from executives and front line users along the way. This helps ensure a diversity of perspectives in the process from start to finish.

**PROJECT AFFILIATES:**

Currently in testing phase internally at MDT; no other parties involved

**PROJECT KEY CONTACTS:**

Brian Andersen
Lead GIS Analyst/
Montana DOT
MDT AGOL Project Mgr
406-444-6103
brandersen@mt.gov

Chris Dorrington
Data & Statistics Bureau Chief
Montana DOT
MDT AGOL Project Sponsor
406-444-7239
cdorrington@mt.gov

Jack Dartman
ISD Applications Supervisor
Montana DOT
MDT AGOL ISD Oversight
406-444-7937
jdartman@mt.gov

CURRENT UPLAN ADOPTERS
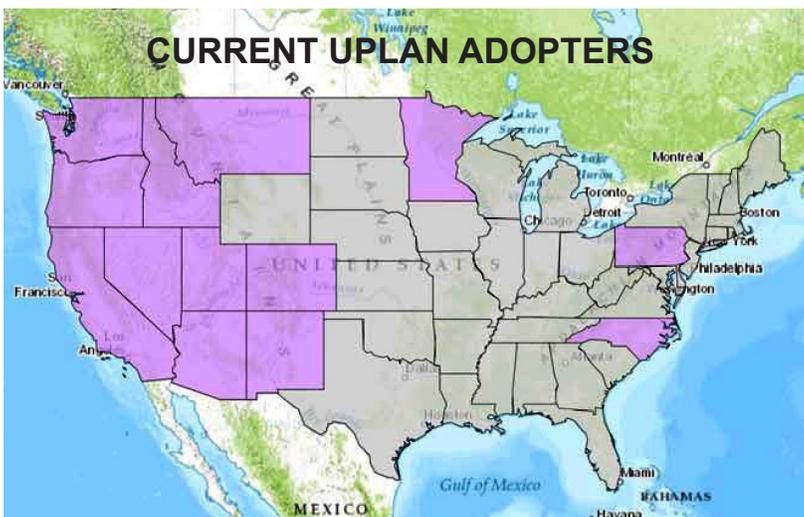
Visit
aii.transportation.org
and click on
UPLAN PHASE II

AASHTO
Innovation Initiative

Prepared May 1, 2013
Revised September 29, 2014