

Colorado DOT's Web Application for Transportation Information System

Presenter

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CDOT had a need to update and migrate applications to new platforms with standard development languages while using a single data repository for all applications. OTIS (Online Transportation Information System) was developed to provide an enterprise GIS solution for transportation information within CDOT.

OTIS, CDOT's Online Transportation Information System, is a collection of six web applications. These applications supply transportation information in the form of maps, pictures, tables, and reports. The following modules make up the application:

Map View - An ArcGIS server application that provides mapping, query, hot linking, route measures and basic analysis tools. Users can produce customized maps from over 100 available layers.

SAP Functions - A WMS based application that interfaces with SAP to enable CDOT's project and corridor managers to create, modify, and review information about a project's location and other features and attributes associated with that location.

Windshield - OTIS Windshield is a photo viewer application on the web that allows the user to see all of CDOT's highways as if viewed from a windshield. This application interfaces with ArcGIS server to provide a geographic selection to view highway segments.

Planning Insight Network (PIN) - An ArcGIS server application that enables CDOT's planning and environmental stakeholders to inspect information about the human and natural environments and make geographically-based comments.

Retriever - Metadata Explorer, an ArcIMS application to allow CDOT users to search for metadata and downloadable data.

Corridor Projects - An ArcGIS server application on the web that contains detailed information about specific transportation corridors.

The purpose of this presentation is to demonstrate the OTIS modules functionality, discuss technical hurdles, lessons learned and future enhancements and modules.