The Transportation Framework Implementation Team Mission:

To compile and maintain Oregon's GIS Transportation Network (OTN) as a seamless set of data that is uniform in content and consistent across jurisdictions.

Purpose

The OTN provides a single source for transportation centerline data for use in Geographic Information Systems (GIS). The OTN will integrate with other Oregon Framework Layers to build a foundation which supports GIS analysis at many levels. The OTN will integrate with similar efforts underway in the State of Washington resulting in a Northwest transportation network.

Background

The need for a single source of transportation data has long been apparent. Many Oregon government agencies have recognized the need for a GIS data set that utilizes the most recent local data to support various programs including emergency response, infrastructure maintenance, spatial analysis, mapping and traditional planning purposes. Over the past four years, government agencies have been coordinating an effort to develop a transportation layer designed to meet those needs. The OTN has grown to include many city, county, state, federal and regional governments. The OTN development has moved forward with significant funding from the Oregon Geographic Information Council, ODOT's Transportation Development Division and Transportation Safety Division, and from significant in-kind contributions from regional and local governments.

Objectives

1. Develop and implement a database model for Oregon's Transportation Network where data adheres to accepted standards based on business and analytical needs.

2. Identify and engage data partners in the collection, development, maintenance and use of transportation data to meet business and analytical needs.

3. Design and implement a web-based interactive process to integrate data received from data partners. Provide safe access to statewide OTN data that is supported by FGDC compliant metadata.

4. Design and implement a long-term data maintenance plan for the OTN which supports the business and analytical needs of the project.

Benefits

The OTN will provide partners with accurate, timely and well-documented geospatial data to support a wide variety of transportation network business and analysis needs including:

1. **Emergency Management**
   - **a.** E-911 dispatch: assist in the dispatch of first responders by providing geographic location information for the emergency incidents.
   - **b.** Emergency or disaster planning and communication: provide evacuation routes and key transportation infrastructure to develop models for decision support and analysis.
   - **c.** Wildfire defense: analyze operational options and plan logistics for deployment of equipment and personnel.

2. **Infrastructure Management**
   - **a.** Planning for the future transportation needs: develop alternative route analysis to help balance capacity across the network. Crash data across jurisdictions can be analyzed, delivering a true network analysis. The results can be visualized and deficiencies clearly communicated.
   - **b.** Road design and construction: provide notification of projects, perform root-cause analysis of deficiencies with related roadways, bridges, trails, railroads, ferries, and freight data available or communicate project-related information to stakeholders and constituents more easily.
   - **c.** Maintenance and operations: utilize OTN data for routing emergency response vehicles and routing traffic around a crash or spill. Other vehicles can also be dispatched and routed. ITS applications can be enhanced, particularly those that illustrate traffic congestion and problems over the Internet. (Currently those applications are only for state highways.) Tracking assets along a roadway is facilitated with this kind of data.
   - **d.** State and Federal mileage and road jurisdiction reporting: extract certified mileage by jurisdiction.

3. **Environmental Assessment and Management**
   - **a.** Analyze watersheds for impervious surfaces would be facilitated with roads, trails, and rails in a watershed.
   - **b.** Evaluate other infrastructure in place for water including tracking storm water systems along roadways could be accomplished.
   - **c.** Conduct Salmon enhancement planning involving ecosystem assessments of road and hydro relations would be facilitated.

OTN Partners

Association of Oregon Counties
Baker County
Benton County
Bonneville Power Administration
Bureau of Land Management
Central Oregon Community College
City of Springfield
Clackamas County
Clatsop County
Columbia County
Coos County
Crook County
Curry County
Deschutes County
Douglas County
Federal Highway Administration
Gilliam County
Grant County
Harney County
Hood River County
Jackson County
Jefferson County
Josephine County
Klamath County
Lake County
Lane Council of Governments
Lane County
Lincoln County
Linn County
Local 911 Call Centers
Malheur County
Marion County
Metro
Morrow County
Multnomah County
Oregon Department of Administrative Services-GEO
Oregon Department of Forestry
Oregon Department of Revenue
Oregon Department of Transportation
Oregon Emergency Management
Oregon Geographic Information Council
Oregon Parks and Recreation
Polk County
Sherman County
Tillamook County
Umatilla County
Union County
University of Oregon
US Census
US Department of Forestry
US Geologic Survey
Wallowa County
Wasco County
Washington County
Washington Department of Transportation
Wheeler County
Yamhill County

In cooperation with:

Oregon Department of Transportation

U.S. Department of Transportation
Federal Highway Administration

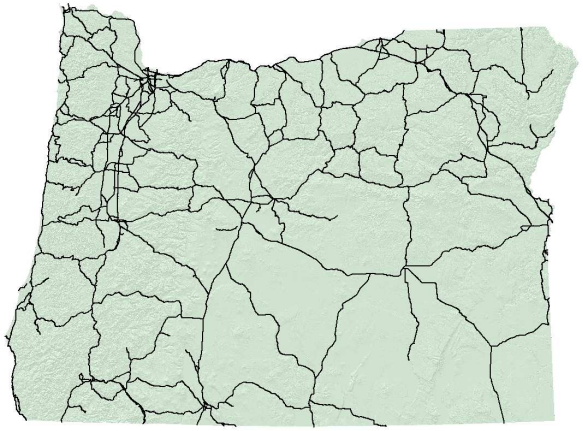
For information or questions on the OTN project, please contact:

Chad Brady
OTN Project Manager
555 13th St. NE, Suite 2
Salem, OR 97301-4178
Phone: (503) 986-3164
Fax: (503) 986-4249
E-mail: chad.w.brady@odot.state.or.us

For online project status reports and maps please visit:

http://egov.oregon.gov/ODOT/TD/TDATA/gis/TransFIT.shtml

Oregon Transportation Network for GIS



Building Road Authority Partnerships across the State