

Interim Report

Date: 3/11/2012

Agreement Number: G10AC00207

Project Title: Best Practices for Road Centerline Data Sharing in Oregon

Organization:

Geospatial Enterprise Office (GEO)
955 Center St. NE Room 470
Salem, OR 97301
<http://gis.oregon.gov>

Principal Investigator:

Cy Smith
(503)378-6066
cy.smith@state.or.us

Collaborating Organizations:

Oregon Explorer (OE)
Oregon State University
Corvallis, OR 97331-4501

Oregon Department of Transportation (ODOT)
555 13th Street NE
Salem, Oregon 97301

Oregon Emergency Management (OEM)
3225 State Street
Salem, Or 97309

Project status and activity occurring since 1/31/2011 report

Project key personnel changes:

ODOT – Brett Juul, (503) 581-7668 brett.a.juul@state.or.us replaces Dennis Scofield
OE – Janine Salwasser, (541) 737-8908 janine.salwasser@oregonstate.edu replaces Renee Davis-Born and Kuuipo Walsh

Status:

1. Rural/resource area checkerboarding:
Rural/resource lands in Oregon are predominately owned by either USFS or BLM and both agencies have extensive road centerline efforts. Existing cooperation between these two agencies and ODOT has been minimal and generally a one-way information flow (from the federal agency to ODOT). GEO, ODOT, USGS, BLM and USFS have concluded the series of meetings focused on broadening coordination. A pilot project was initiated to explore the possibility of beneficial attribute and geometry transfer between BLM/ USFS and ODOT. The results of this pilot will be documented in the project final report.

2. Data sharing agreements with Counties/Public Safety Answering Points (PSAPS):
The primary product from this has been the development of a data sharing agreement to facilitate to sharing of road centerline data from the Counties/PSAPS through ODOT and GEO to accessibility in the public domain. As noted in the previous report, this has been a challenging undertaking. To date we have a number of signed agreements and are awaiting an updated dataset from ODOT.

3. Establishment of the FHWA Pooled Fund portal in Oregon for dissemination of the road centerline data:

I'm copying the status of this activity from the 2/1/2011 report to provide context.

There have been two significant changes to this part of the project. First, Washington DOT, the primary party developing the portal, has ended its participation in the project. Second, "out of the box" functionality available in ESRI's Geoportal Extension replicates many of the desired functions that were custom coded into the original Pooled Fund portal. Given these development we've focused on developing the project using ESRI's Geoportal Extension. Phase one of this project concludes June 30, 2011 and we are currently developing the scope of work for phase two. This work is scheduled to be complete by June 30, 2012

Phase One Project Description:

Data users will be provided with a website allowing access to fully integrated statewide transportation framework data. Varying levels of permissions will determine which tasks a portal user is allowed to perform. Based on their permission levels, users will be able to do one or more of the following:

- Select the geographic region for the data they wish to view/download/stream,
- View the data and associated metadata they have selected, and
- Stream and download the data and associated metadata in a user selected format and projection.

User downloading and streaming will be restricted as defined by ODOT's data sharing agreement with local jurisdictions.

Phase 1 Functional Requirements

- The Transportation Portal will be integrated into the Oregon Explorer and the navigator initiative and provide access to framework spatial data.
- The Transportation Portal architecture will be designed to support future geospatial data access and distribution, beyond transportation spatial data.
- The Transportation Portal will restrict data downloading and streaming in accordance with ODOT's data sharing agreement with local jurisdictions.
- The application will include user registration.
- The application will limit access to restricted data based on user-login.
- The application will display background and overlay layers specified by the Transportation Framework Implementation Team (T-FIT).
- The application will support downloads in multiple formats using a map interface.
- The application will link to OR-TRANS partner sites.
- The application will adhere to FGDC and OGC standards.
- The application will provide 24-hour/7-day-a-week operational accessibility.
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Phase One is complete and work is underway for Phase Two which includes the following tasks:

- Expose metadata to geo.data.gov for periodic harvesting
- Implement browse view, ontology search and fix preview link with ESRI Geoportal Server 1.1
- Make a publicly accessible version of the road centerline dataset available
- Give users the ability to access road centerline data via other service types (ArcGIS Map Service, WMS, WFS)
- Implement standard symbolization for road centerline data for display in the OSDL
- Add new transportation related data layers to the OSDL (e.g., traffic counts, crashes)

- Upgrade the Map Viewer to incorporate a more robust set of search, display and download options

No assistance is needed at this time

Timeline:

Activities 1 and 2 required much more effort than anticipated and the anticipated improvements in road centerline data sharing remain somewhat elusive. Activity 3 is progressing according to our anticipated schedule but is dependent on the previous activities. We anticipate no issues in meeting the June 30th 2012 project deadline.