

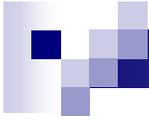
ODOT GIS Steering Committee Meeting

August 18, 2015



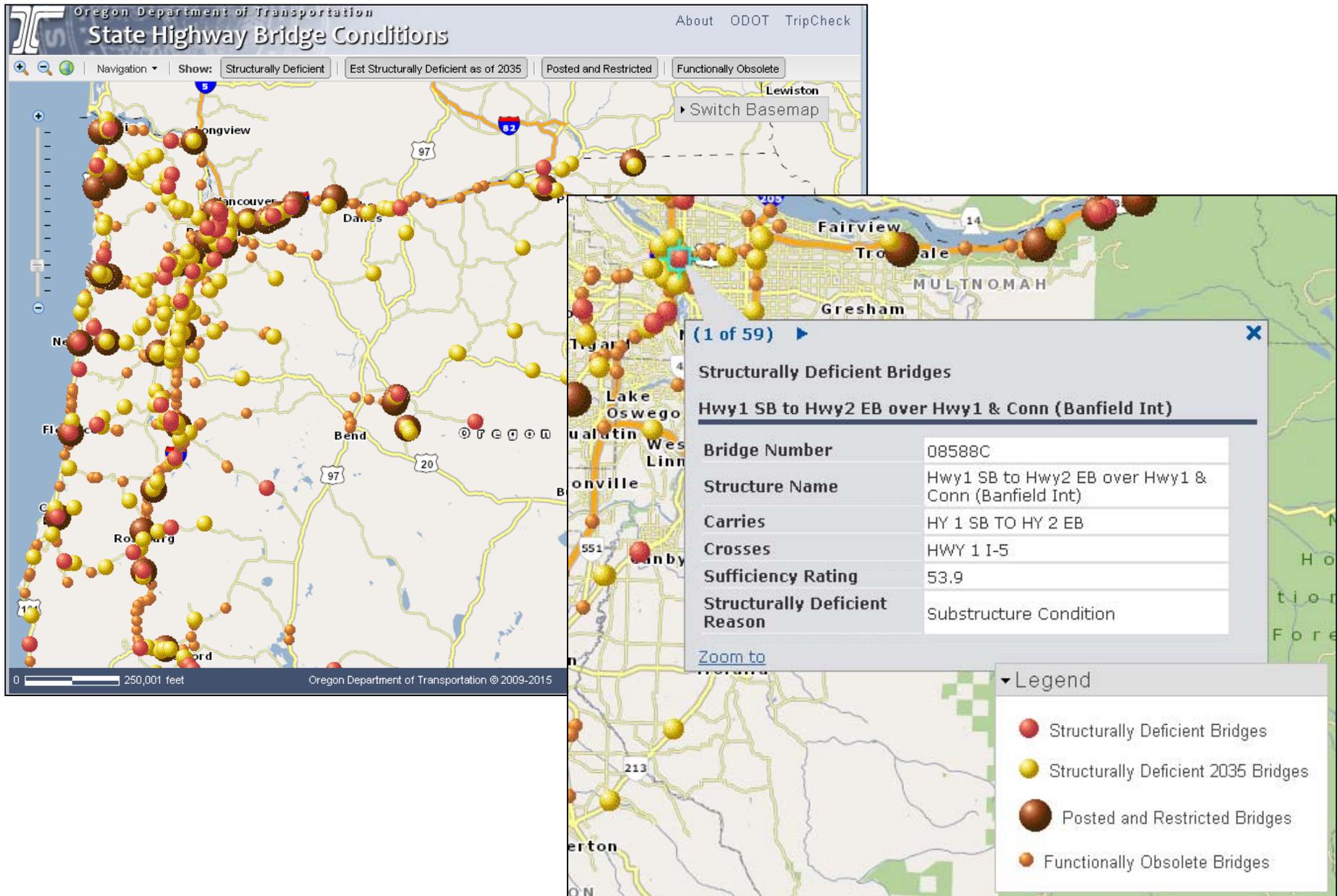
Agenda Items

- **Agenda Overview and Opening Comments**
 - Introductions & Approve minutes from 6/16/15
Link to: [Minutes](#)
 - Project Updates
 - Project Request
 - HPMS/Arnold/FMIS
 - Strategic Data Business Plan
 - ArcGIS 10.2.2 Migration/Upgrade
 - OGIC Update

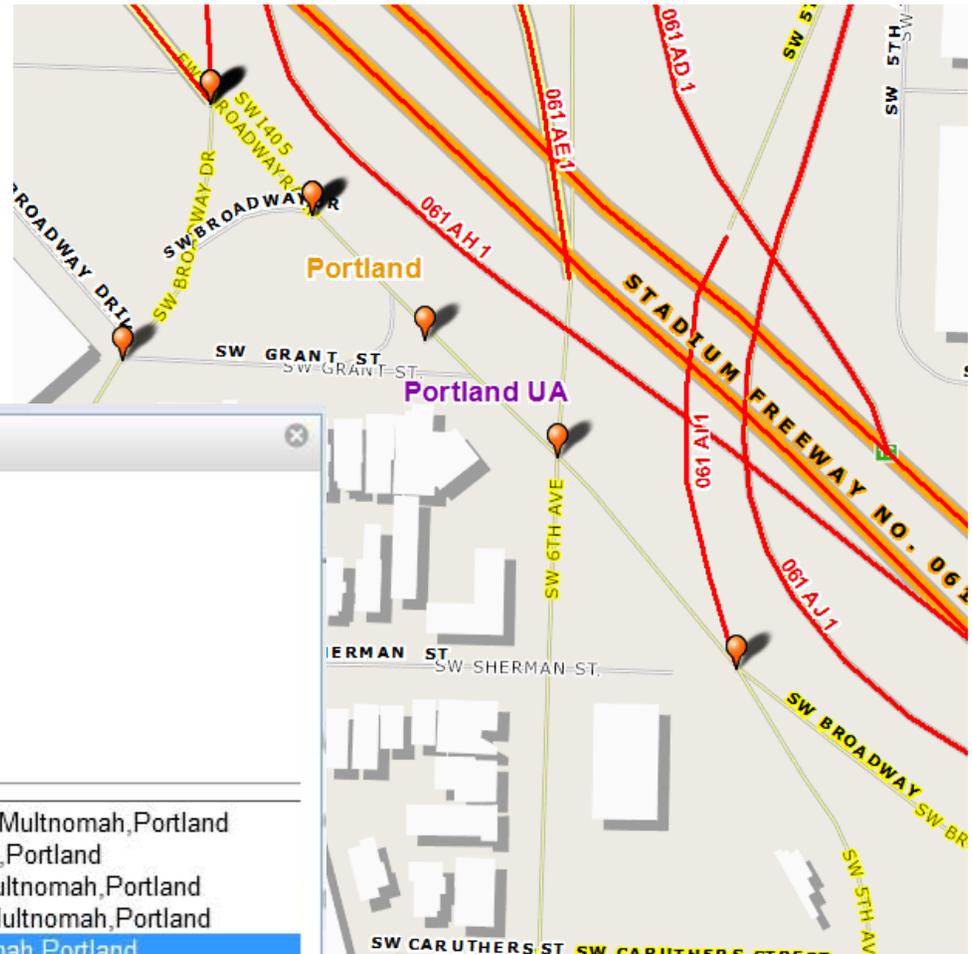
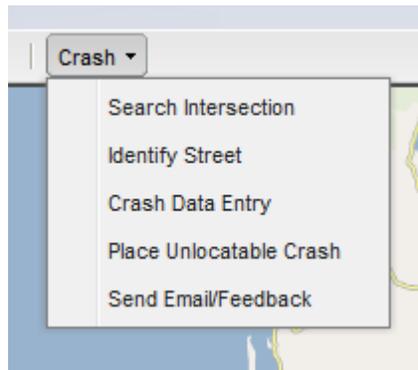


Project Updates

State Hwy. Bridge Conditions Application



Crash Locator Tool Enhancements



Street Intersection Search

Select County : Multnomah
Select City : Portland
Street 1: roadway
Street 2:
Limit search to view:
Cancel Search

SW BROADWAY DRIVE / SW RAVENSVIEW DRIVE - Multnomah,Portland
SW BROADWAY DRIVE / SW ARDEN RD - Multnomah,Portland
SW BROADWAY DRIVE / SW BRAE MAR COURT - Multnomah,Portland
SW BROADWAY DRIVE / SW HOFFMAN AVENUE - Multnomah,Portland
SW BROADWAY DRIVE / SW SHERMAN ST - Multnomah,Portland

Show All Show Selected Intersection Crash

Emergency Response Mapping

T-REX - Transportation Rapid Emergency X-plorer

Layer Catalog Legend What's New

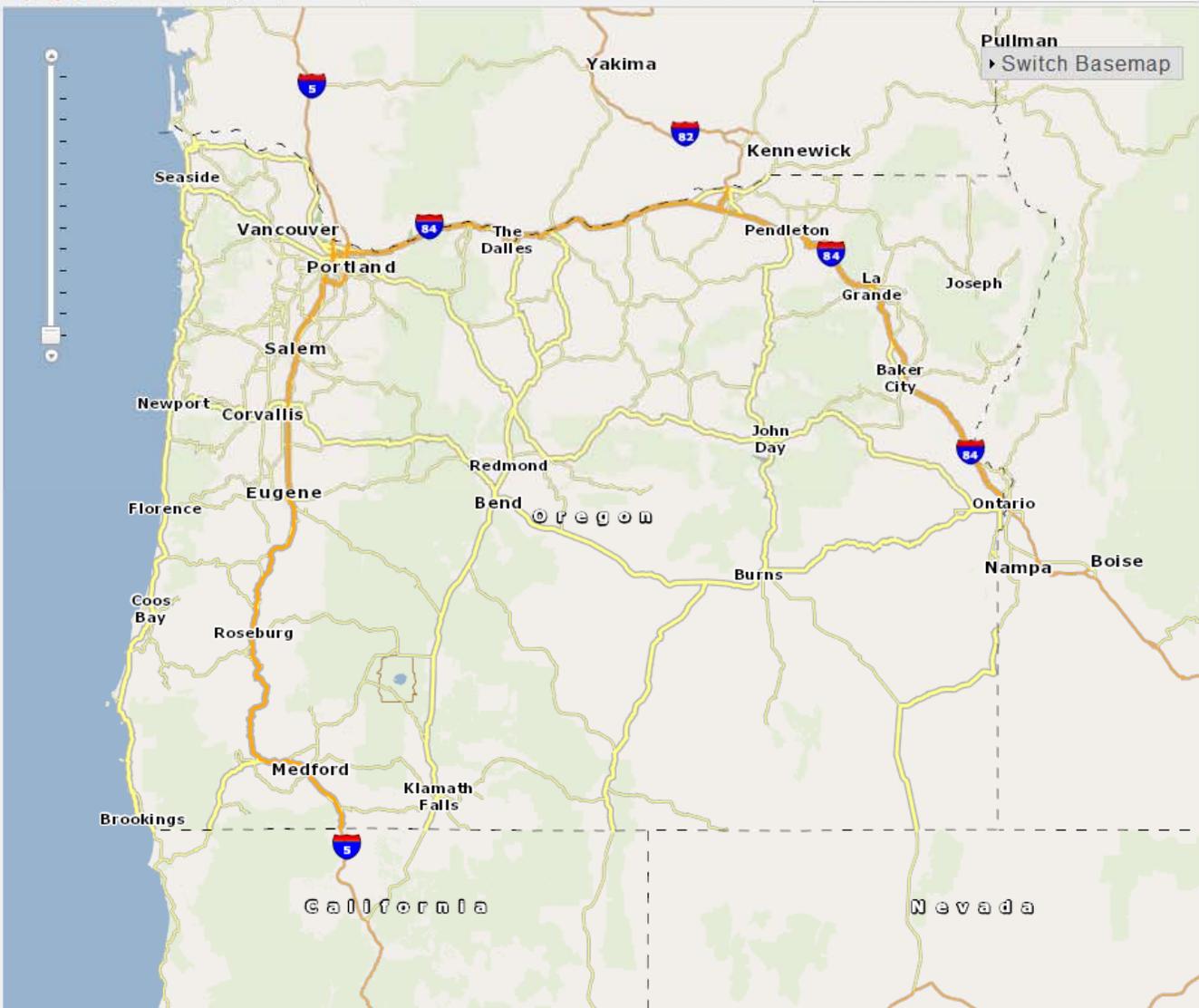
Layer Catalog

Emergency Incidents

- ODOT Facilities
 -  FACILITY, HIGH
 -  FACILITY, MEDIUM
 -  FACILITY, LOW
- EMERGENCY_incidents Points
 - 

Structures +
Drainage +
Equipment - Highway +
Roadway +
Roadside +
Freight +
Rail +
Public Transit +
Road Network +
Classifications +
Traffic Data +
Safety +
Land & Facilities +
Environmental +
Boundaries +

Clear All Apply



0 281,288 feet

Oregon Department of Transportation © 2009-2015

121.9508° W, 44.0503° N

Cached Base Maps for Tripcheck

OREGON DEPARTMENT OF TRANSPORTATION

TripCheck

Road & Weather | Travel Center | Transportation Options | About TripCheck | On The Go | Contact Us

Level: 7

Base Maps

Quick Links

- Statewide
- Northwest
- North
- Northeast
- West
- Central
- East
- Southwest
- South
- Southeast

Bend

Eugene

La Grande

Medford

Portland

Portland Metro

Portland Speed Map

Salem

My Maps

Map Legend

Corvallis

ALBANY-CORVALLIS HIGHWAY

99W

20

34

CORVALLIS-LEBANON

Half Moon Bend Upstream State Park

Alerts

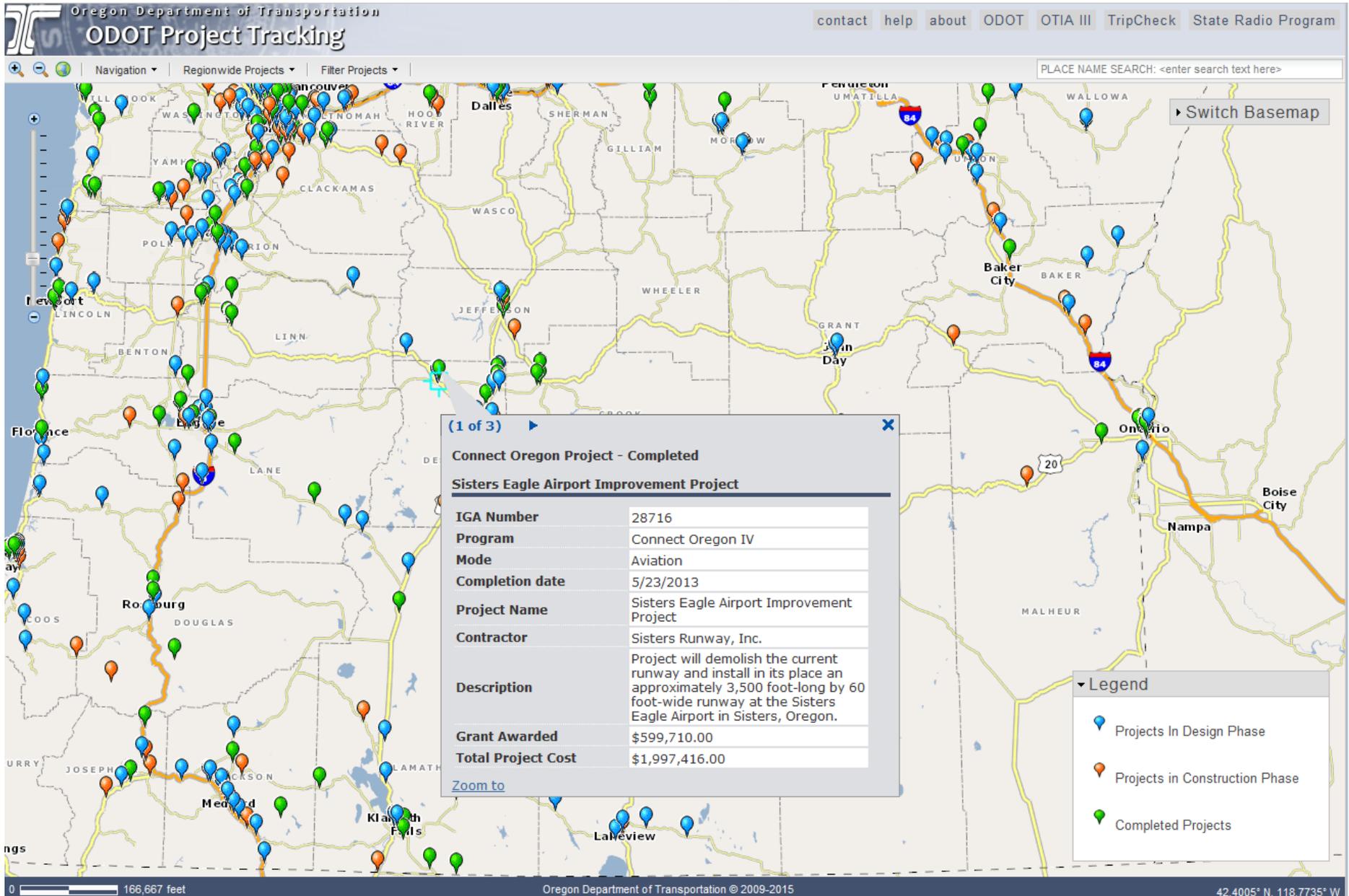
- Closure US395_Canyon City MP 2
- Closure US395 7 miles North of Seneca MP 18
- Closure ORE230 Intersection with North Umoqua Highway ORE138 MP 24
- Closure ORE230 Intersection with Crater Lake Highway ORE62

Announcements

Find Out More! OReGO

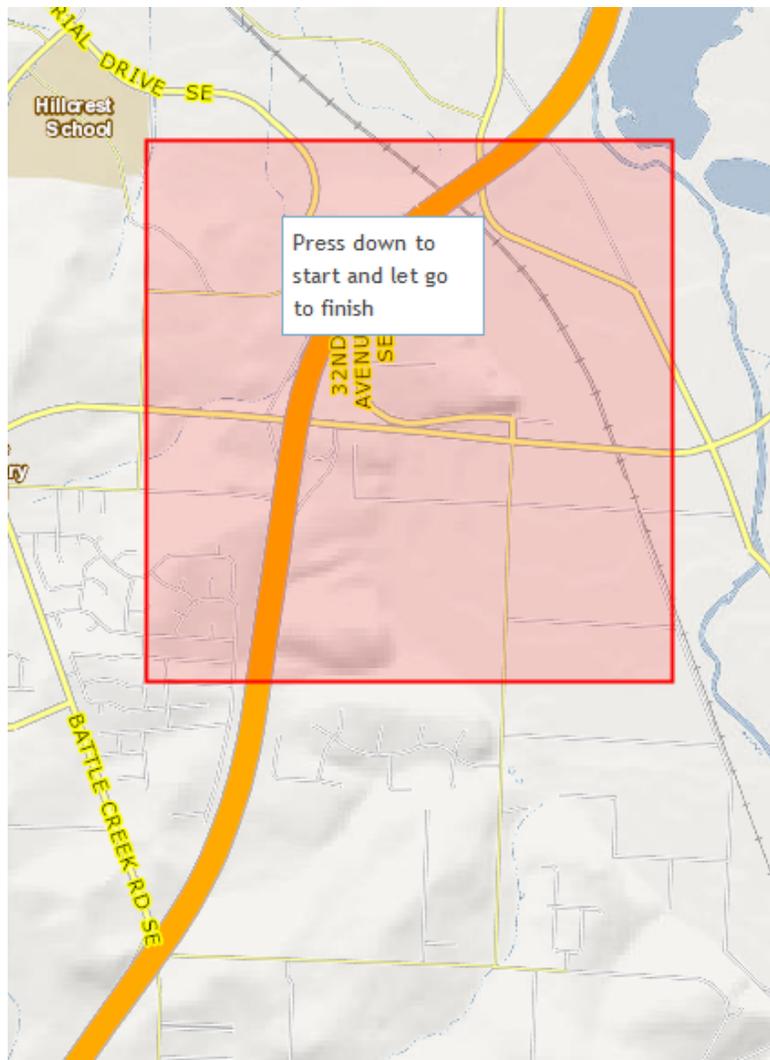
44.59, -123.28

ODOT Project Tracking (OPT) Application



Trans Planning Online Database (TPOD)

Data & Document Updates Completed in Late June



Search for transportation planning documents. Use mouse click and drag a box over the map. This will initiate a request to search for transportation planning documents available for that area.

Click on "Navigate" button to switch to navigation mode

Search Results:

[I-5 Kuebler Blvd Salem IAMP \(1999\)](#)

[Marion County TSP 2013](#)

[Salem Keizer MPO RTP 2007](#)

[I-5 Kuebler Blvd Salem IAMP \(2009\)](#)

[County of Marion AMP US 51 \(2004\)](#)

[City of Salem TSP 2013](#)

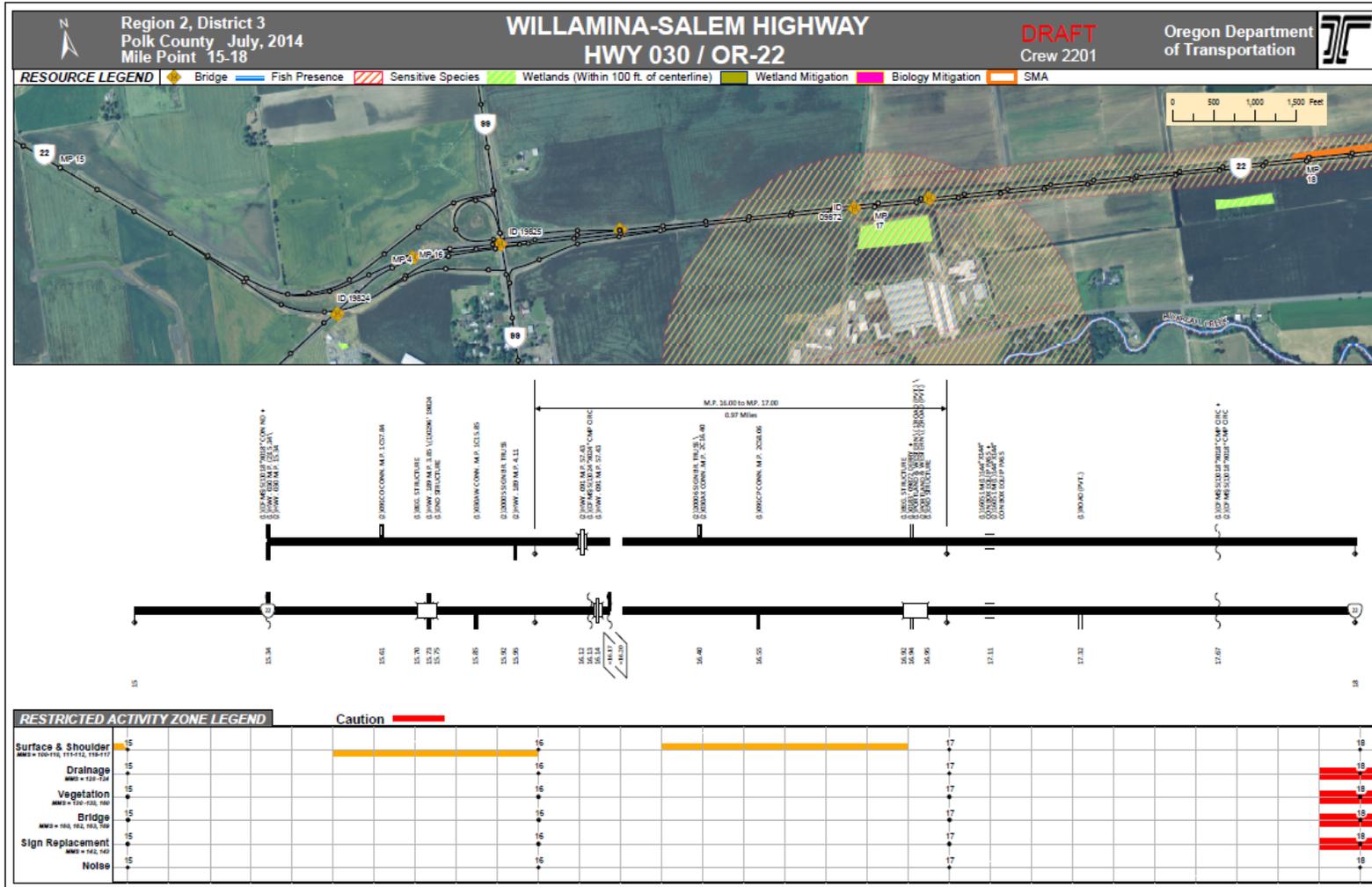
Kuebler Boulevard Interchange Area Management Plan

Prepared for
Oregon Department of Transportation

January 2009

Prepared by
CH2MHILL

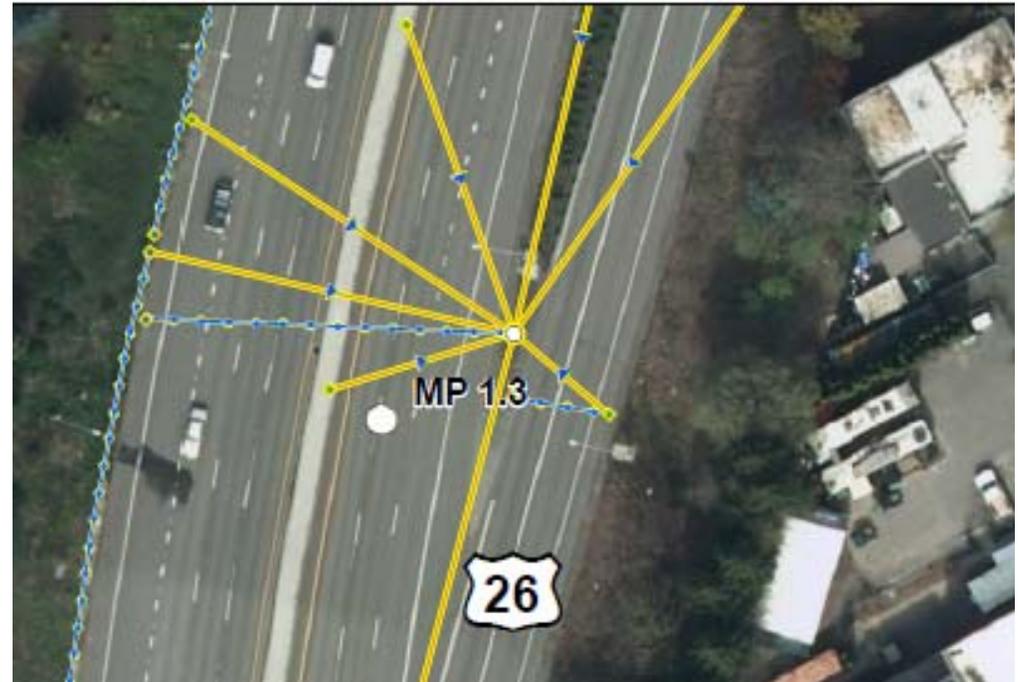
RES/RAZ Region 2 Map Updates



Portland Harbor

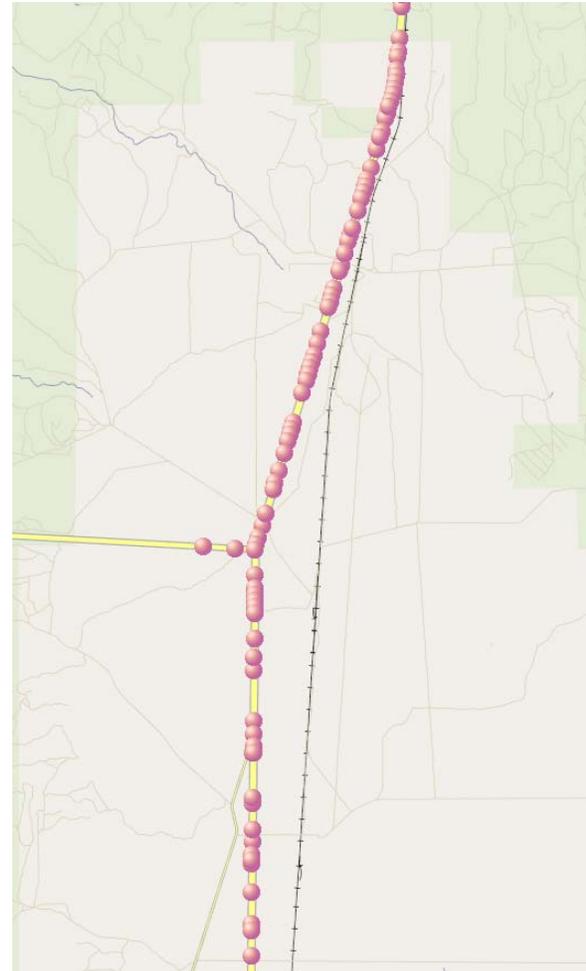
Minor revisions and maintenance with newer data in progress.
Recent activity includes:

- Along I-405, currently recoding designated line segments
- Next will fix corresponding nodes
- Perforated pipe extract complete

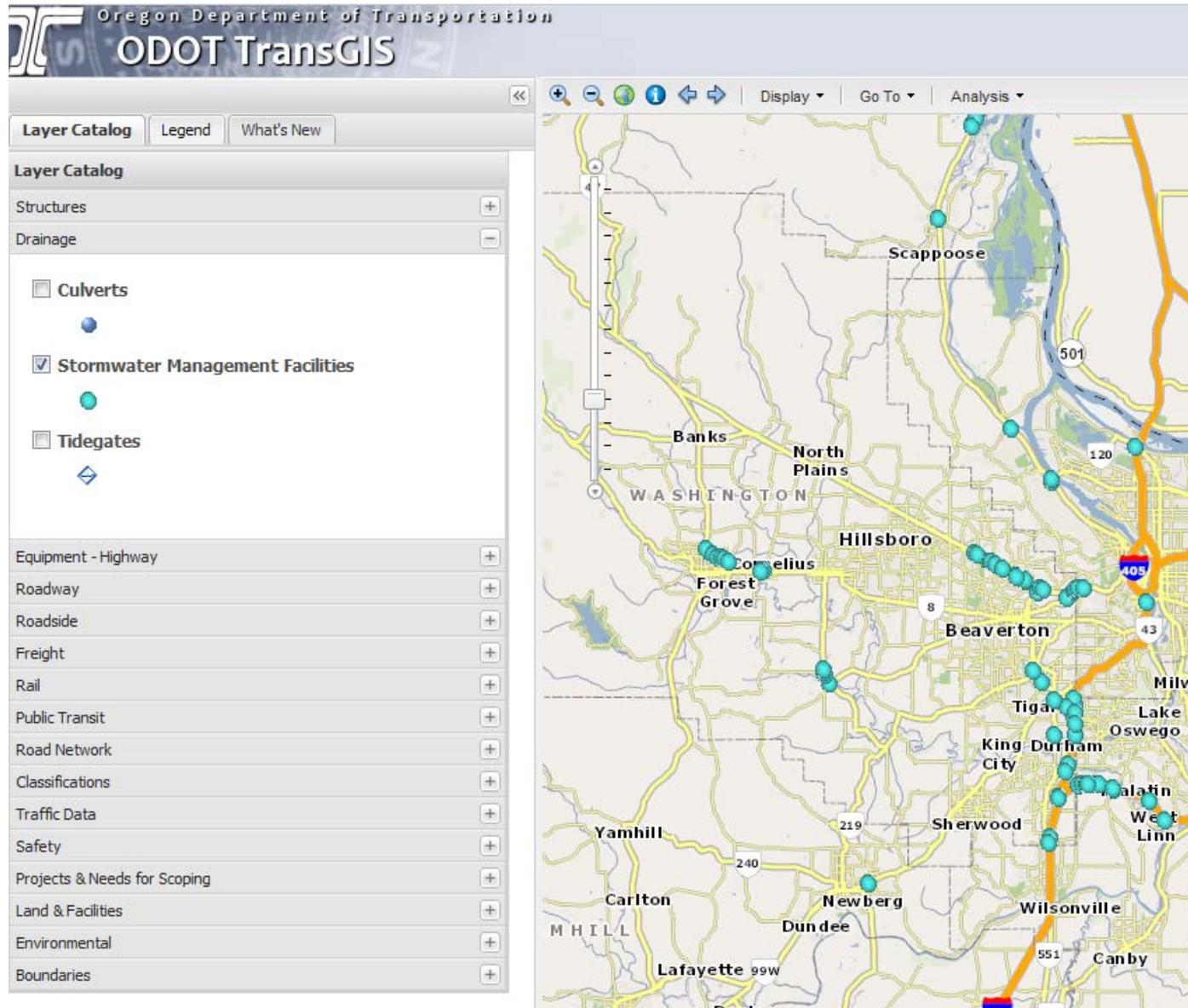


Wildlife Crossings

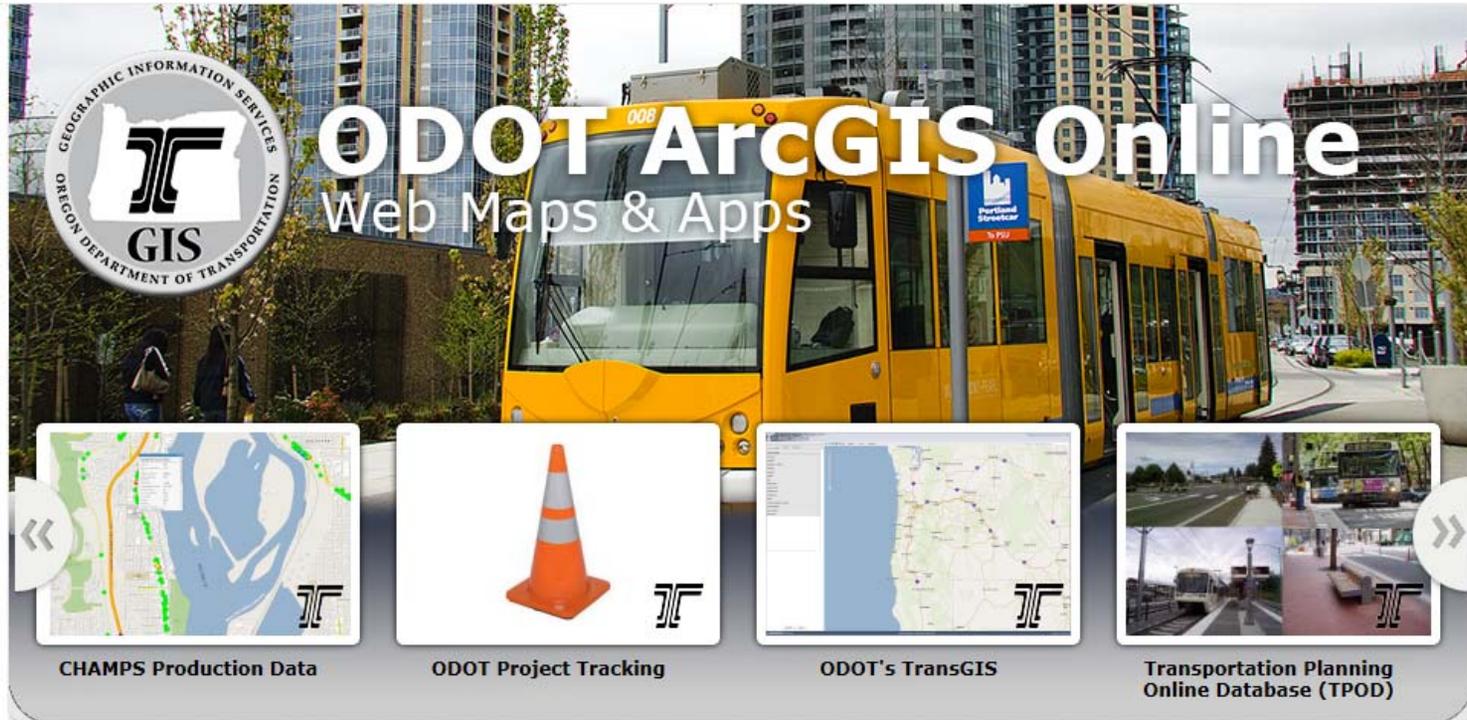
- Creating new data and map representation for display of ODOT's wildlife hotspots product that was developed in 2007.
- Developing new hotspot segments layer from updated maintenance dispatch records.
- New segment hotspot layer will be added to TransGIS.
- Standardizing regional collected data to enable scripted update
- Scripting will support automation of GIS updates from tabular records



Stormwater Management Facilities



ArcGIS Online



The banner features a background image of a yellow tram in an urban setting. In the top left corner is the ODOT GIS logo, which includes the text "GEOGRAPHIC INFORMATION SERVICES" and "ODOT GIS" around a stylized "OT" symbol. The main title "ODOT ArcGIS Online" is displayed in large white font, with "Web Maps & Apps" in a smaller font below it. Below the main title are four icons representing different applications: a map with green and blue overlays, an orange traffic cone, a map with a blue area, and a street scene with a tram. Each icon is accompanied by a small "OT" logo. Navigation arrows are visible on the left and right sides of the application icons.

ODOT ArcGIS Online
Web Maps & Apps

CHAMPS Production Data

ODOT Project Tracking

ODOT's TransGIS

Transportation Planning Online Database (TPOD)

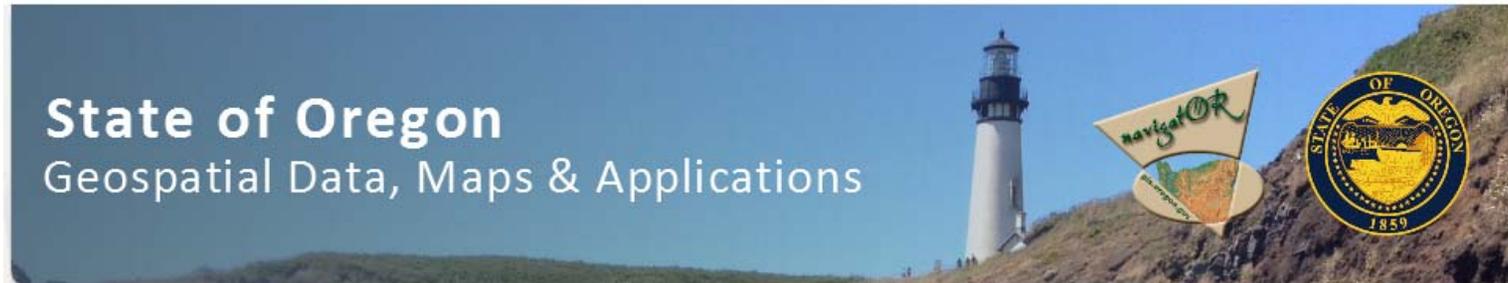
Welcome to ODOT ArcGIS Online!

The Oregon Department of Transportation's (ODOT) interactive portal through which ODOT Staff, business partners, and others can access web maps, applications, and tools to display and consume geospatial data pertaining to transportation in Oregon.

Disclaimer

The products on this site are for informational purposes and may not have been prepared for legal, engineering or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information. Questions? Contact the [ODOT GIS support team](#).

ArcGIS Online



State of Oregon
Geospatial Data, Maps & Applications

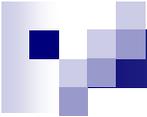
Oregon Agency Galleries

 Geospatial Enterprise Office  GALLERY	Oregon Department of Agriculture  GALLERY	Oregon Department of Forestry  GALLERY	Department of Environmental Quality  GALLERY 
Geospatial Enterprise Office Gallery	Oregon Department of Agriculture	Oregon Department of Forestry	Oregon Dept. of Environmental Quality

Welcome to Oregon's source for interactive maps and applications!

 [GEO Home](#)  [Terms of Use](#)  [Contact Administrator](#)

Follow us on  [Twitter @OregonGEO](#)



GIS Data Development and Maintenance

TransGIS Themes and Layers

Structures

- Bridges
- Structurally Deficient Bridges
- Functionally Obsolete Bridges
- Review for SHV Loads
- Weight-Restricted Bridges
- Posted Bridges
- Low Clearance Bridges
- Retaining Walls
- Major Traffic Structures
- Tunnels

Drainage

- Culverts
- Tidegates

Equipment – Highway

- Signs
- Signals
- Intelligent Transportation System (ITS)
- Weigh-In Motion (WIM) Sites
- Automatic Traffic Recorder (ATR) Stations

Roadway

- Roadway Composition
- Pavement Condition
- Number of Lanes
- Shoulder Width and Type
- Lane Width

Roadside

- ADA Ramps
- Sidewalks
- Approaches
- Approaches-Upermit
- Sound Barriers
- Bicycle Facilities
- Traffic Barriers

Freight

- OHP Freight Routes
- High Clearance Routes
- Reduction Review Routes
- National Network – State
- National Network – Non-State

Rail

- Rail Network
- Rail Crossings
- Rail Bridges
- Rail Mile Posts
- Rail Tunnels

Public Transit

- Park and Ride Lots
- Oregon POINT Bus Stops (Fixed Route)
- Oregon POINT Bus Routes (Fixed Route)
- Transit Stops (Fixed Route)
- Transit Routes (Fixed Route)
- ODOT Transit Regions

Road Network

- Highway Mile Posts
- Highway Mile Points – Tenths
- Highway Mile Points – Hundredths
- All Public Roads
- All Public Road Names
- Signed Routes
- Highway Connections
- Highway Frontage Roads
- Highway Network
- Hwy Network - Color - Coded by ODOT Hwy #

Classifications

- Federal Functional Class – State
- Federal Functional Class – Non-State
- OHP Expressways
- OHP Highway Classification
- National Highway System (NHS) – State
- National Highway System (NHS) – Non-State
- Fix-It Priority Corridors
- Oregon Scenic Byways
- Special Transportation Areas (STAs); Urban Business Areas (UBAs); Commercial Centers (CC)

Traffic Data

- Automatic Traffic Recorders (ATR) Data
- Annual Average Daily Traffic (AADT) - State
- Annual Average Daily Traffic (AADT) – Non-State
- Projected AADT
- Posted Speed
- Traffic Flow
- Truck Flow

Safety

- Crashes 2013 State
- Crashes 2013 Non-State
- Crashes 2012 State
- Crashes 2012 Non-State
- Crashes 2011 State
- Crashes 2011 Non-State
- Crashes 2010 State
- Crashes 2010 Non-State
- Crashes 2009 State
- Crashes 2009 Non-State
- Crashes 2008 State
- Crashes 2008 Non-State
- 2014 SPIS (2011-13 crashes)
- 2013 SPIS (2010-12 crashes)
- 2012 SPIS (2012-11 crashes)
- 2011 SPIS (2008-10 crashes)
- 2010 SPIS (2007-09 crashes)

Projects & Needs for Scoping

- STIP 2012_15 Points Draft
- ADA Ramp Needs
- Safety Scoping Projects
- STIP 2012_15 Segments Draft
- STIP 2008_11 Final
- STIP 2006_09 Final
- Bicycle Facility Needs
- Sidewalk Needs

Land & Facilities

- Aggregate Sites
- Unstable Slopes
- ODOT Maintenance Stations
- ODOT Facilities
- ODOT Leased Buildings
- Faults OGDC v5
- Folds OGDC v5
- Geological Units Map OGDC v5

Environmental

- Wildlife Collision Hot Spots
- Fish Barriers
- Fish Passage
- Oregon Wetlands
- Hydric or Wetland Soils
- Climate Divisions
- Average Annual Precipitation

Boundaries

- City Limits
- Federal Aid Urban Boundaries (FAUB)
- Urban Growth Boundaries (UGB)
- PLSS (Township, Range, Section only)
- ODOT Maintenance Districts
- ODOT Areas
- ODOT Regions
- Area Commissions on Transportation (ACTs)
- Metropolitan Planning Organizations (MPOs)
- Environmental Justice
- US Congressional Districts
- State Senate Districts
- State House Districts
- Bricklayer Zones
- Electrician Zones
- Power Equipment Operator Zones
- Zip Codes
- Lidar Point Cloud Index
- Lidar Imagery Index

Framework Data Summary List

FIT Area and Name of Standard	Overview	Data Source	ODOT Contributor/ User	Applicable to who in ODOT
Administrative Boundaries:				
Oregon Administrative Boundaries Standard (OABS) (2008)	<p>OABS sets forth the essential elements and data structure necessary to adequately describe, develop, exchange, and use administrative boundary data produced in Oregon. The OABS is primarily concerned with a core set of geospatial information to support the need for an accurate and current representation of the extent and spatial relationship of an array of administrative boundaries. This standard is intended to support a single type of boundary per dataset. The types of administrative boundaries are state boundaries, city boundaries, county boundaries, region boundaries, etc.</p> <p>Administrative Boundaries Standard, v 2.0 (pdf)</p>	Federal, State and Local Agencies	Contributor and User	TransGIS Road Approaches R/W Functional Class Database Crash Database
Zoning Extension to Administrative Boundaries Standard (2014)	<p>This is an extension to the common content model for the zoning element and inherits most of its substance from the parent standard. The minimum Data Elements are FID, shape, area, perimeter, UnitID, localZCode, localZDesc, orZCode, orZDesc, codeRef, effDate, unitOwnerID, unitOwner Type, unitOwnerName, gStewardID.</p> <p>Zoning Extension to Administrative Boundaries Standard, v 1.0</p>	Federal, State and Local Agencies	Contributor and User	TransGIS Road Approaches R/W Functional Class Database Crash Database
Bioscience:				
Oregon Fish Habitat Distribution Data Standard (OFHDDS) (2015)	<p>The standard provides a basic characterization of current and historical fish habitat use by species and run (anadromous), the life history exhibited and the basis for the identification of the habitat and is intended to support the automation, integration and sharing of publicly available fish habitat distribution information. The common format facilitates data sharing and will enhance the prospects of developing a comprehensive fish habitat distribution dataset. It will</p>	Fish and Wildlife	User	GeoEnvironmental Bridge



Project Updates

- Develop a Railroad Data Exchange Standard
- Oregon Transportation Commission Map Requests
- TransGIS Tutorial Videos
- ArcGIS10.2.2 Implementation
- FMIS Web Tool for Federal Reporting
- OR-Trans for ARNOLD (Federal HPMS)



Project Request

- RES/RAZ Region 1

RES/RAZ Region 1

Sponsors: Patti Caswell,
Maintenance
Environmental Program
Manager

Luci Moore, Statewide
Maintenance Engineer

Objective

Provides an update to develop and print maps in support of maintenance and operations environmental workshops for environmental compliance and highway maintenance best practices.

Deliverables

1. Natural resource data updates
2. Meeting maps – RAZ Initial Draft
3. District 2B Crew meetings
4. District 2C Crew meetings
5. Review maps – RAZ Revisions
6. Region 1 – RAZ Maps Finals

Benefit to ODOT

- Maintains environmental and regulatory commitment by upholding highway maintenance best practices

Risks (Concerns)

- Resource availability across ODOT disciplines
- If update is not completed then maintenance may rely on old information that may not be accurate for critical decision making.

Dependency

- Current natural resource data from recognized authoritative sources
- Workshop collaboration with maintenance and Region Environmental Coordinators

Timeframe

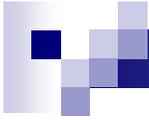
- September 2015 – January 2016

Cost (Funding/Staff hours)

- WOC – (est. \$52,000)
- GIS – (est. 140 hours)

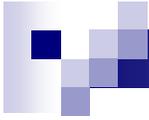
Resources (Internal/External)

- GIS - Production and Contract Management
- Maintenance & Operations – Project Manager/Owner
- Regional Environmental Coordinators
- District 2B & 2C management teams
- Consultant - product development team



HPMS / Arnold / FMIS

GIS Steering HPMS Update



Strategic Data Business Plan

Strategic Data Business Plan



ArcGIS 10.2.2 Migration/Upgrade

- ArcGIS 10.2.2 Desktop software rollout is complete (500+ workstations)
- Data Conversion:
 - SQL data successfully converted to File Geodatabase (FGDB)
 - Historical shape files converted to FGDB
- MXDs supporting applications converted to 10.2.2 in new Development environment
- File server:
 - New file server is being configured
 - The data will then be migrated from the old file server



ArcGIS 10.2.2 Migration/Upgrade

■ Test environment:

- All test servers have been delivered (two ArcGIS servers, one SQL server, software is installed)
- Tessa Iverson and Sue McClellan are scheduled to install ArcGIS Server software on the TEST machines
- Susan Mead is working with John Lingerfelt to configure SQL environment

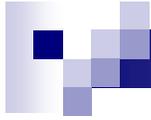
■ Production environment:

- Production servers (two ArcGIS servers, one SQL server) have been ordered but not delivered.



OGIC Update

- DAS-GEO Move
- Esri ELA Update
- Proposed FIT Funding Projects
- OGIC Executive Order
- Geospatial Data Act



NEXT MEETING:
Tuesday, October 20, 2015
9:00am – 11:00am