

Pacific Northwest Regional Pilot Oregon State Demonstration

December 1, 2009
Salem, OR

Building a Regional Capability



Homeland
Security

Welcome and Opening Remarks

Major General Raymond F. Rees
The Adjutant General, Oregon

Building a Regional Capability



Homeland Security 2

Meeting Purpose & Outcomes

Ken Murphy

Director, Oregon Emergency Management

Building a Regional Capability



Homeland Security 3

Purpose & Outcomes

Purpose:

- Share with state leaders advances in technology for state-wide and regional visualization platforms for day-to-day operations and incident management
- Inform state leaders and related agencies of the benefits that others have realized by using new technologies for regional information sharing
- Hear state leaders' thoughts regarding support for a regional information sharing initiative

Outcomes:

Shared understanding of:

- existing technologies and opportunities for information sharing within and among states
- state leadership level of support for a regional information sharing pilot
- state leadership priorities/constraints in how best to advance emergency management operations

Building a Regional Capability



Homeland Security 4

Participant Introductions; Administrative Notes

John Sneed

Deputy Director, Office of Emergency
Management

Building a Regional Capability



Homeland
Security 5

Virtual USA Strategic Vision

D'Arcy Morgan & Chris McIntosh
DHS, S&T
Command, Control, and
Interoperability Division



Building a Regional Capability



Homeland
Security 6

Today's Challenges

- The need for real-time, actionable information is critical during day-to-day and emergency response operations.
- Critical information is often trapped in silos and inaccessible to those who need it the most.
- Components, systems, and architectures have limited ability to provide robust information sharing without the benefit of a national strategy and applicable standards.
- Information does not make it into the hands of the people who need it most.

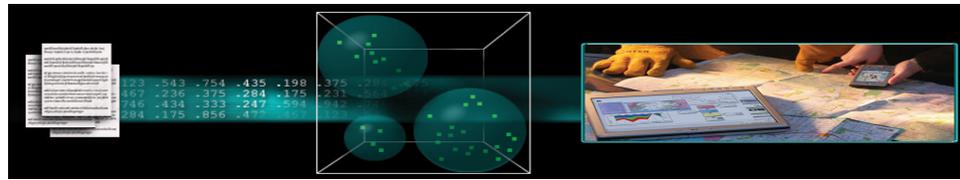
Building a Regional Capability



Homeland Security 7

Virtual USA

- Creates a cost-effective nationwide capability that significantly improves information sharing and decision making during emergencies.
- Based on current and emerging technologies, Virtual USA integrates existing information sharing frameworks and technologies to enable collaboration at the local, tribal, state, and Federal levels by providing critical context for information - thereby making it actionable



Building a Regional Capability



Homeland Security 8

Virtual USA (cont'd)

Developed by the Department of Homeland Security's Command, Control and Interoperability Division in partnership with the response community, the Virtual USA concept aims to improve emergency response by ensuring practitioners at all levels have immediate access to the information they need to make decisions, when they need it.



Building a Regional Capability



Homeland Security 9

Importance of Pilots

- Pilots prove that new technologies and concepts really work before introducing them as solutions.
- A single pilot demonstration rarely generates sufficient information to serve as a national model.
- Every jurisdiction and geographic region has different needs and issues.
- DHS, S&T goal is to conduct pilots in as many places as possible.
- Pilot demonstrations influence neighbors - speeding the adoption of solutions across the Nation.



Homeland
Security

Regional Context

Ken Murphy

Sean McSpaden

Deputy State Chief Information Officer

Building a Regional Capability



Homeland Security 11

Virginia Interoperability Picture for Emergency Response (VIPER) Demo and Q&A

Bobbie Atristain
Virginia Department of Emergency Management

Chris McIntosh, CCI Support

Building a Regional Capability



Homeland
Security 12

Virtual Alabama Demo and Q&A

Chris Johnson
Geospatial Technologies and Virtual Alabama
Program Manager

Building a Regional Capability



Homeland
Security 13

Discussion: Applicability to State, Local & Regional Situations

John Sneed and Sean McSpaden

Building a Regional Capability



Homeland
Security 14

Spectrum of Events

- Local (First Responder)
- Local (Multi-agency response)
- County-wide (multiple jurisdictions)
- Multi-county event (i.e. routine winter storm events)
- Statewide / Regional catastrophic Event (Cascadia Subduction Zone earthquake and resulting tsunami)

Building a Regional Capability



Homeland
Security

Potential Information Uses

- Mobile data display – First Responders
- Mapping/ Data Visualization: Incident Commanders, City and County EOCs, State AOCs, State ECC, FEMA JFO
- Daily jurisdictional / agency use
- Pre-Event Mitigation planning
- Response Coordination
- Post-Event Recovery Planning

Building a Regional Capability



Homeland
Security 16

Oregon GIS and Information Sharing Update

Sean McSpaden
Oregon Deputy State CIO

Building a Regional Capability



Homeland
Security 17

Oregon GIS and Information Sharing Update

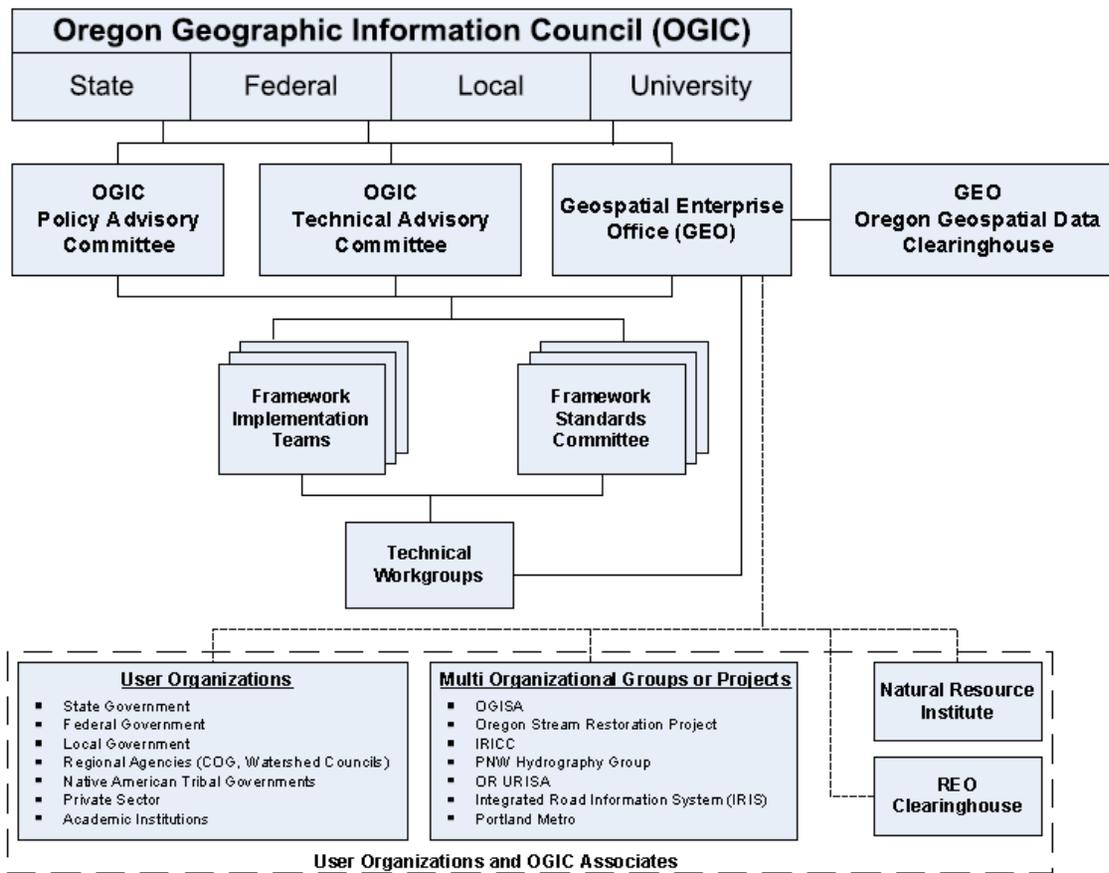
- GIS Governance Structure
- Current Datasets and Standards
- Existing Systems and Capabilities
- Future Needs and Next Steps

Building a Regional Capability



Homeland Security 18

Oregon GIS Governance Structure



Building a Regional Capability



Homeland Security

Oregon GIS Governance Structure

- Oregon Geographic Information Council (OGIC)
 - created by Executive Order (EO – 02) and is composed of representatives from 22 state agencies, four (4) local governments, and two (2) federal agencies
 - provides leadership for the GIS Community in Oregon and is the governing body overseeing GIS development across state government
 - Is supported by four (4) primary groups
 - Policy Advisory Committee
 - Technical Advisory Committee (GIS Program Leaders – GPL)
 - Oregon Geospatial Enterprise Office (GEO)
 - Framework Implementation Team (FIT)

Building a Regional Capability



Homeland Security 20

Oregon GIS Governance Structure

- OGIC Policy Advisory Committee (PAC) provides
 - Strategic planning, budgetary, and policy development for OGIC
- PAC Membership – 16 participating agencies
 - Polk County
 - Administrative Services (GEO)
 - Agriculture
 - Oregon Emergency Management/
Military Department
 - Lane Council of Governments
 - Fish and Wildlife
 - Forestry
 - Human Services
 - Oregon State University –
Institute of Natural Resources
 - Bureau of Land Management
 - Revenue
 - Transportation
 - Water Resources
 - Watershed Enhancement Board
 - United States Geological Survey

Building a Regional Capability



Homeland
Security 21

Oregon GIS Governance Structure

- OGIC GIS Program Leaders (GPL) serves as
 - The OGIC technical advisory committee
 - A technical level forum for participating members to exchange ideas, share expertise and propose solutions to technical problems related to geospatial technologies
- GPL Membership
 - Membership in the Oregon GPL is voluntary.
 - OGIC members are encouraged to appoint the GIS coordinator, or equivalent position, of each agency

Building a Regional Capability



Homeland
Security 22

Oregon GIS Governance Structure

- GPL – 18 Participating Agencies (State, Local, Federal)
 - Administrative Services (GEO)
 - Agriculture
 - Oregon Emergency Management/ Military Department
 - Environmental Quality
 - Fish and Wildlife
 - Forestry
 - Geology and Mineral Industries
 - Human Services
 - Land Conservation and Development
 - Parks and Recreation
 - Port of Portland
 - State Lands
 - Revenue
 - Transportation
 - Water Resources
 - Watershed Enhancement Board
 - United States Geological Survey

Building a Regional Capability



Homeland Security 23

Oregon GIS Governance Structure

- Oregon Geospatial Enterprise Office (GEO)
 - Coordinates with government agencies to develop and manage Oregon's geographic information
 - Communicates about Geographic Information Systems (GIS) issues with users across Oregon
 - Guides development of Oregon's GIS data standards through Framework Implementation Teams
 - Serves as Oregon's point of contact for other organizations about geographic information and GIS.
 - Hosts the Oregon Geospatial Data Clearinghouse, an electronic library of geographic information

Building a Regional Capability



Homeland
Security 24

Current GIS Datasets and Standards

Building a Regional Capability



Homeland Security 25

Framework Implementation Teams

- Framework Implementation Team Website
 - <http://www.oregon.gov/DAS/EISPD/GEO/fit/FIT.shtml>
- Fourteen (14) Framework Implementation Teams
- 350+ people on Framework Implementation Teams
- Tasked with Implementation Plan and Standard for each Framework Theme
 - A data steward has been identified for each Framework Theme
 - One agency acts as steward for each data set, on behalf of all others, to develop and maintain data
 - 20 + GIS Data Standards developed to date
- Standards Development and Adoption Process ongoing
 - 11th Standards Forum was held in March 2009

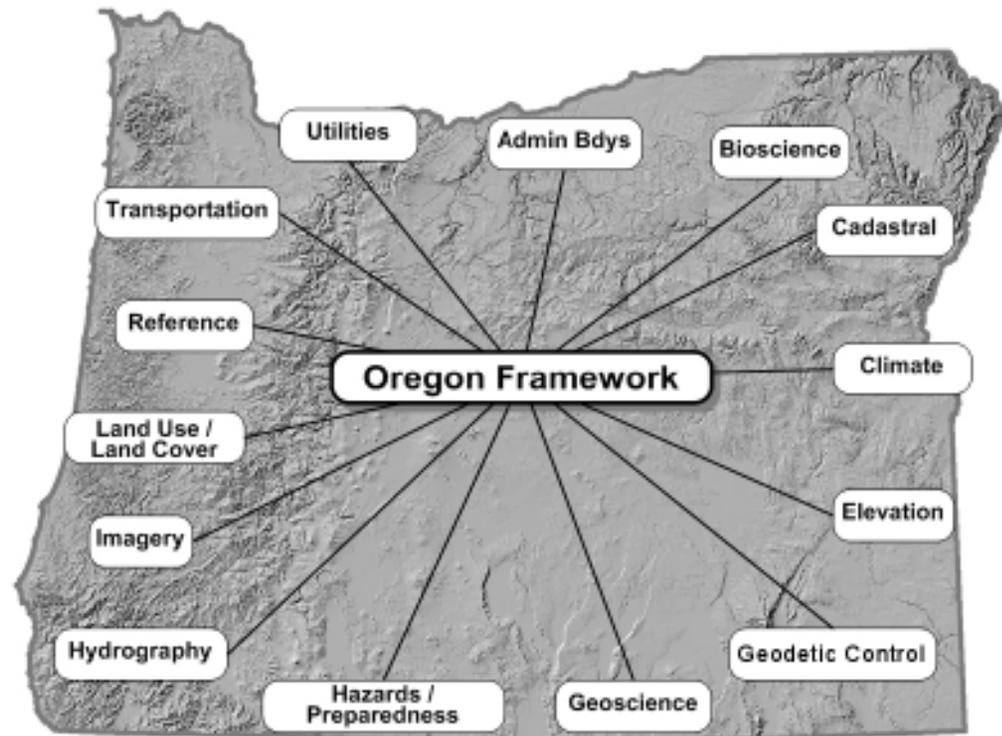
Building a Regional Capability



Homeland
Security 26

Framework Implementation Teams

- Framework forms the data backbone of GIS
- Oregon's FIT is closely aligned with the National Spatial Data Infrastructure initiative
- Oregon's FIT is focused on the development and stewardship of the seven (7) national GIS Framework Themes and seven (7) commonly needed Oregon data themes



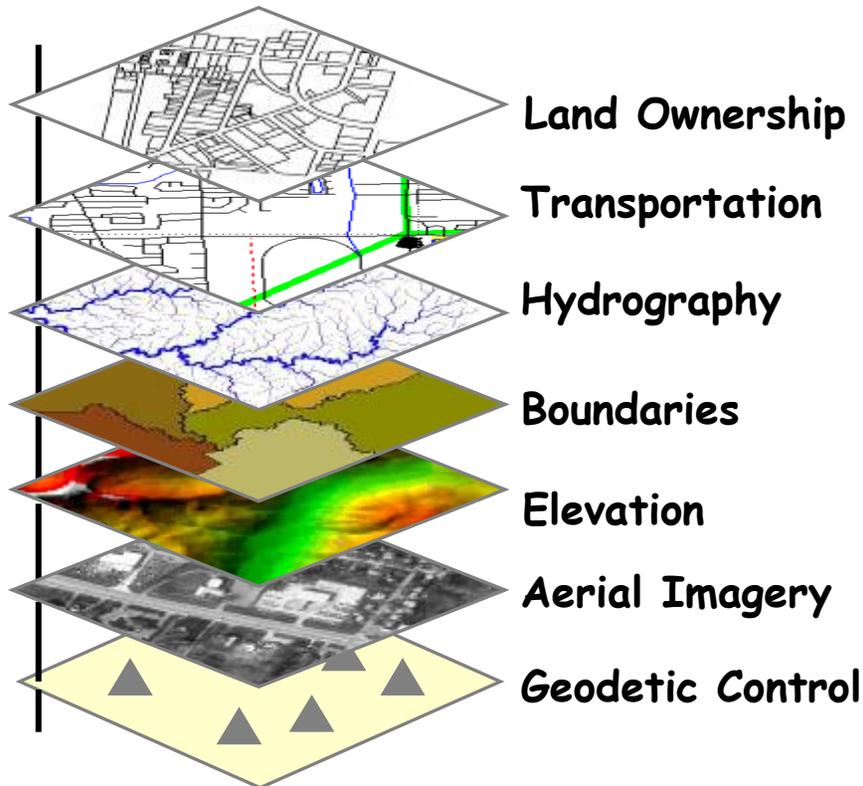
Building a Regional Capability



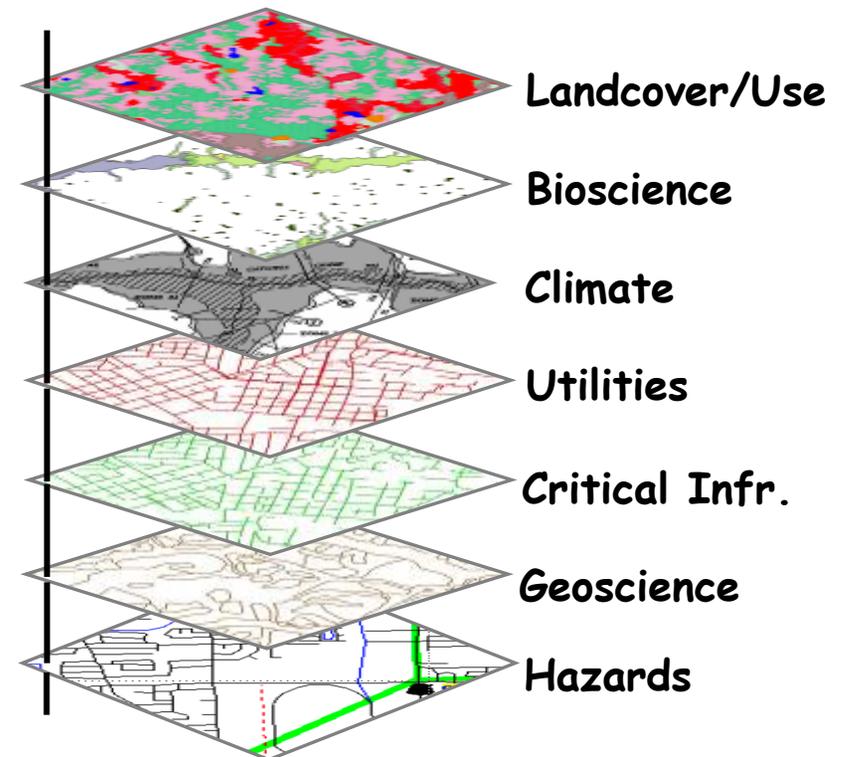
Homeland Security 27

GIS Framework Data

National Standards



Oregon Standards



Building a Regional Capability



Homeland Security 28

GEO Spatial Data Library – Alpha List

- Alpha List of Spatial Data
- ~ 100 datasets are available for download
- Metadata for each dataset is available
- Challenges: Limited functionality and file types

Oregon Geospatial Enterprise Office (GEO)

Department [v]
 Search
 About Us
 Contact Us
 GIS Calendar
 Data and Maps
 FAQ
 GIS Coordination
 GIS Communication
 EISPD Home
 GEO Home

GEO Spatial Data Library

Updates

- 2009 [Fish Passage Barriers](#) - ODFW
- 2009 [Oregon Wetland Geodatabase](#) - NHIC
- 2008 [City Limits](#) - ODOT
- 2008 [Signed Routes, State Highways, 2009 Railroads](#) - ODOT
- 2008 [Highway Mileposts, Scenic Byways](#) - ODOT
- 2009 [Oregon GNIS](#) - USGS
- 2009 [Watershed & Umbrella Watershed Council Boundaries](#) - OWEB
- 2008 Updated [Community Wildfire Protection Plans Wildland / Urban Interface Boundaries](#) - ODF
- 2008 [State Parks](#) - OPRD
- 2008 [Ecological Systems \(ESLF\)](#) - INR
- 2008 [Lakes, Streams Water Quality 2004/2006](#) Integrated Report, revised 2008 - DEQ
- 2004-2007 [Light Detection and Ranging \(LiDAR\) Data](#) - Bare Earth GRID DEMs - Puget Sound LiDAR Consortium / ODF
- 2008 - Homeland Security Infrastructure Program (HSIP): 2008 [State Government Buildings, Public Safety Answering Point Boundaries, 2007 EOCs and Hospitals](#) - TGS

[Subscribe](#) to the GEO Data RSS feed to receive updates when data is added or changed in the Spatial Data Library.
 All data are in a standard [file format and projection](#) unless specifically noted.

A - Z Listing

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z

Themes are statewide unless otherwise specified

Name	Description	Preview	Type	Metadata	Download
Administrative Basins	OWRD Administrative Basins, 1:24,000				Shapefile (3.3Mb)

[Back to the top](#)

Name	Description	Preview	Type	Metadata	Download
Beach Access Points and	Covers the Oregon coast, Columbia river, and				Shapefile (123kB)

Done, but with errors on page.

Building a Regional Capability



Homeland Security 29

Oregon Spatial Data Library

- Searchable data-access tool for Oregon researchers, students, public agency staff, private industry and the public at large

The screenshot shows the Oregon Spatial Data Library website. At the top, there is a navigation bar with links for 'HOME', 'SEARCH', 'DOWNLOAD', and 'LAUNCH MAP VIEWER'. A search bar is located in the 'Find Data' section. The 'Oregon Framework Data' section lists categories such as Admin Boundaries, Bioscience, Cadastral, Climate, Elevation, Geodetic Control, Geoscience, Hazards, Hydrography, Imagery, Land Use/Land Cover, Transportation, Utilities, and Reference. The 'Featured Data' section highlights 'Oregon Hazards Data' with a list of hazards including Climate, Coastal Erosion, Earthquake, Floods, Geologic Floodplain, Landslides, Naturally Occurring Hazardous Materials, Tsunami, Volcanic Hazards, and Wildfire. Resources listed include the Hazard/Preparedness Framework Implementation Team, geodata.gov, The National Atlas, and Hazards Explorer. The Hazards Reporter tool is also featured. A footer note states: 'This is a GIS Portal Toolkit Computer System. Please read the Disclaimer and Privacy or Contact Us.'

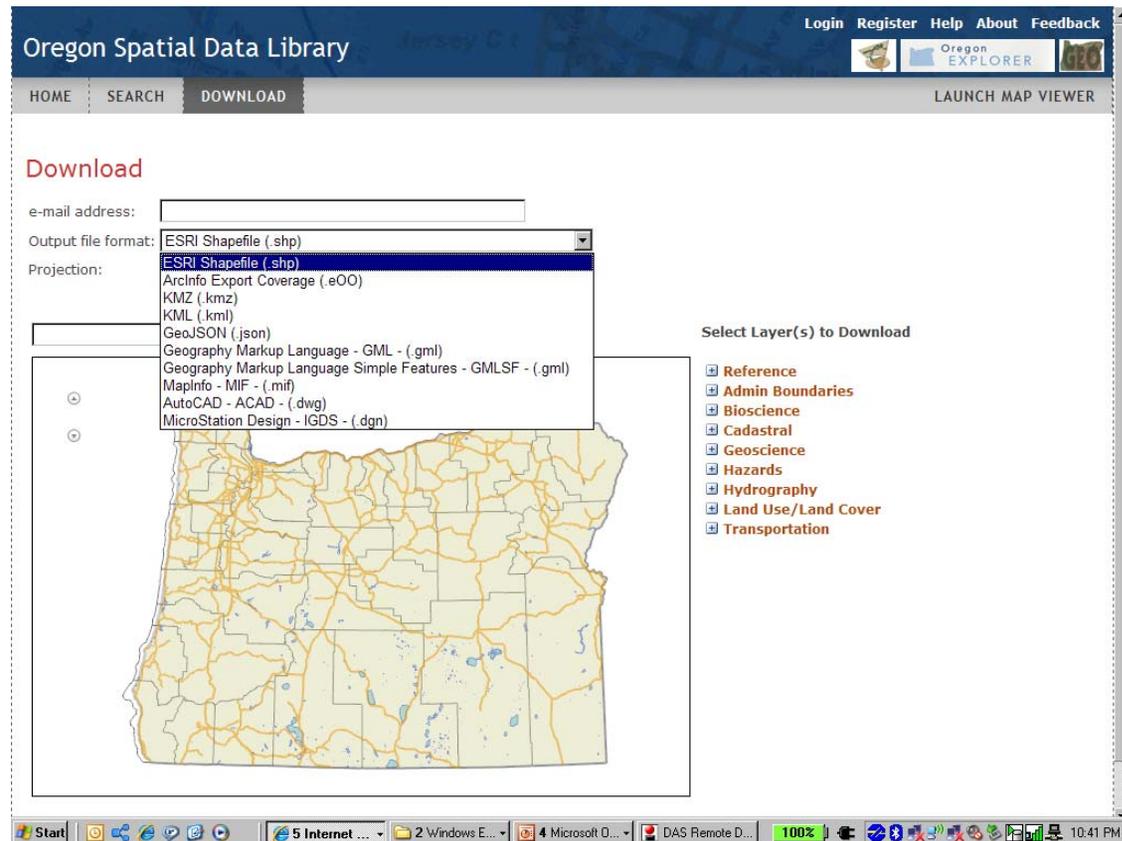
Building a Regional Capability



Homeland Security 30

Oregon Spatial Data Library

- Spatial Data is available for download in a variety of output formats and projections
- Map Viewer is also provided to ensure the user has a chance to review the metadata on the data set prior to download



Building a Regional Capability



Homeland Security 31

Statewide Aerial Imagery

- 1996, 1999, 2005 Digital Orthoimagery
 - Available in various projections through the Oregon Imagery Explorer
 - 2005 Imagery available for viewing, streaming or clip/zip/ship download
- 2009 Digital Orthoimagery

<http://www.oregon.gov/DAS/EISPD/GEO/fit/orthoimagery/OrthoFrame.shtml>

- Acquiring imagery in partnership with US Department of Agriculture National Agricultural Imagery Program (NAIP)
- Flight lines for Oregon were completed as of August 3, 2009
- Imagery mosaics for most Oregon counties have been delivered
- Imagery processing underway
 - 1 meter – Federal Agencies
 - ½ meter – State and local governments
 - true color and color infrared in Oregon Lambert custom projection, as well as UTM and State Plane.
- Expect delivery by February 2010

Building a Regional Capability



Homeland Security 32

OSU Oregon State University OSU Home | OSU Libraries
Ask a Librarian

Home Text size: A A A Search Go

- Available Imagery
- Access the Imagery
- Ways to use the Imagery
- About this Project

- Data Collections
- Reports and Publications
- Expertise and Contacts
- Additional Resources
- Tutorials
- Making Maps

[Help](#) | [Glossary](#) | [FAQ](#)



Oregon's GIS Utility

→ Learn more about navigator

Browse other Explorer Sites

-  Land Use Explorer
-  North Coast Explorer
-  Oregon Explorer
-  Oregon Hazards Explorer
-  Oregon Wildlife Explorer
-  Rural Communities Explorer
-  Umpqua Basin Explorer
-  Wetlands Explorer
-  Wildfire Risk Explorer
-  Willamette Explorer

[About the Oregon Explorer...](#)

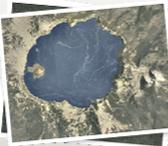


Oregon Imagery EXPLORER
Natural Resources Digital Library

Imagery to provide resource practitioners and the general public with a different perspective on Oregon

STATEWIDE 0.5 METER AERIAL IMAGERY NOW AVAILABLE

- Stream the imagery using Web Map Service (WMS)
- County Downloads (Requires a BitTorrent Client)
- View and/or Download imagery (download limits apply and download times may be long)



Thanks to the U.S. Department of Agriculture's National Agriculture Imagery Program (NAIP) and a multi-agency partnership coordinated by the Oregon Geospatial Enterprise Office, high resolution color aerial photography is available of the entire state. The imagery, flown in the summer of 2005, can be viewed or downloaded from Oregon Imagery Explorer. This is the first dataset to be made available through the Imagery Framework, a collaborative effort to create a widely available source of basic imagery data that adheres to a common standard and upon which organizations can build by adding their own detailed datasets. The Imagery Framework is helping realize the vision of navigator with state-of-the-art accessibility to common data themes that geographic data users need. Older imagery, as well as future acquisitions, will also be available here.

FEEDBACK

Your suggestions and comments will help improve this website.

→ Take our online user survey

Available Imagery | Access the Imagery | Ways to use the Imagery | About this Project | Data Collections | Reports and

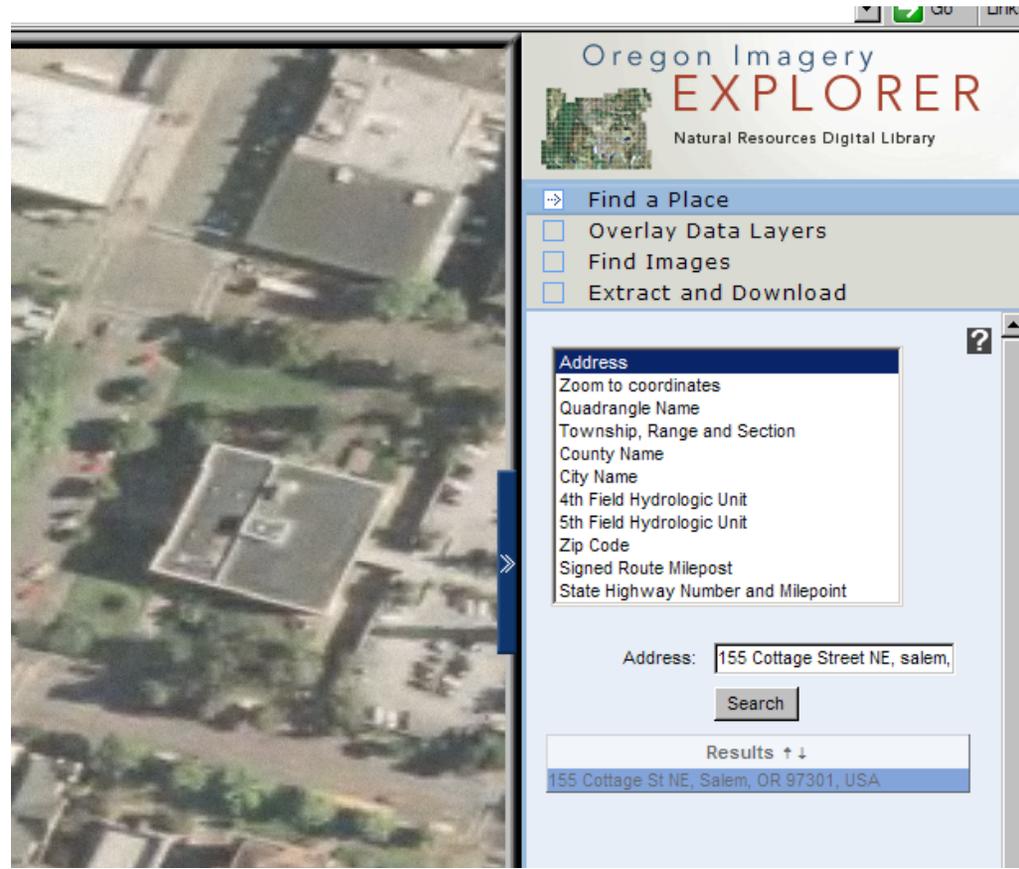
Building a Regional Capability



Homeland Security 33

Oregon Imagery Explorer

Find a Place:
Address



Building a Regional Capability



Homeland Security 34

Oregon Imagery Explorer

Find a Place:
Signed
Route
Milepost

Oregon Imagery
EXPLORER
Natural Resources Digital Library

Find a Place
 Overlay Data Layers
 Find Images
 Extract and Download

Address
Zoom to coordinates
Quadrangle Name
Township, Range and Section
County Name
City Name
4th Field Hydrologic Unit
5th Field Hydrologic Unit
Zip Code
Signed Route Milepost
State Highway Number and Milepoint

Signed Route: 97
Milepost Paddle: 185
Search

Signed Route: US-197
Milepost Paddle: MILEPOST 185.00

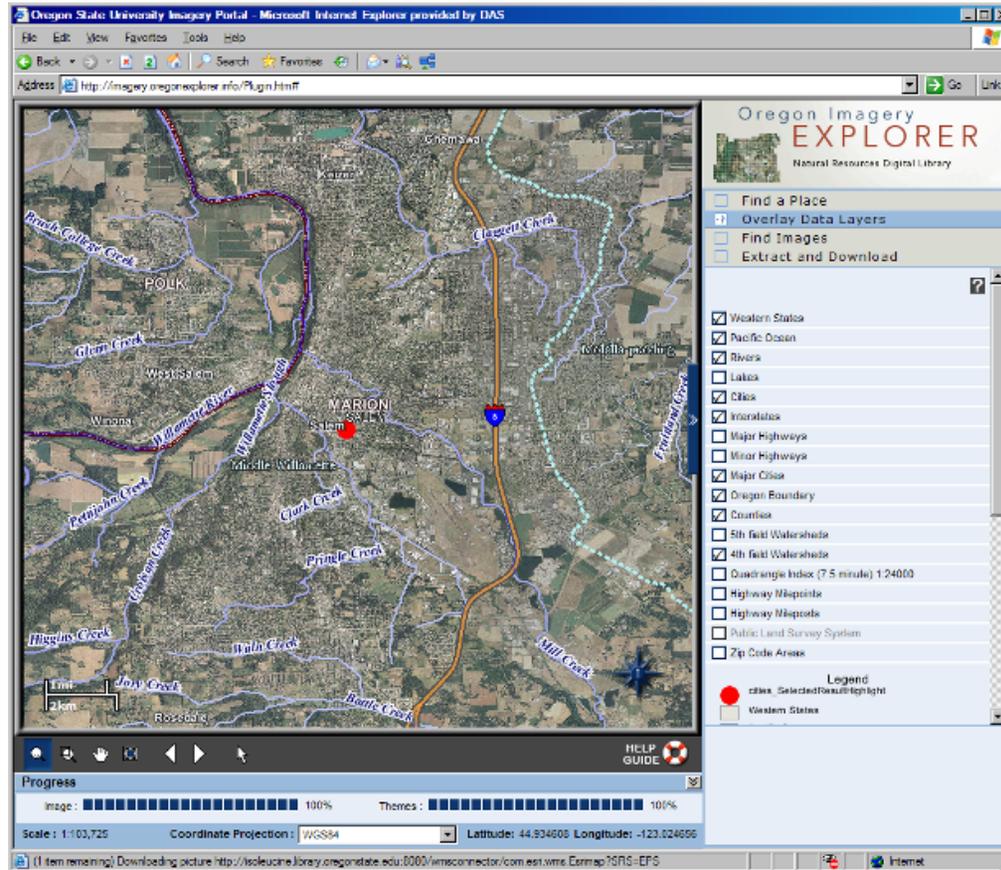
Building a Regional Capability



Homeland
Security 35

Oregon Imagery Explorer

Overlay Data Layers:
Streams and Watersheds



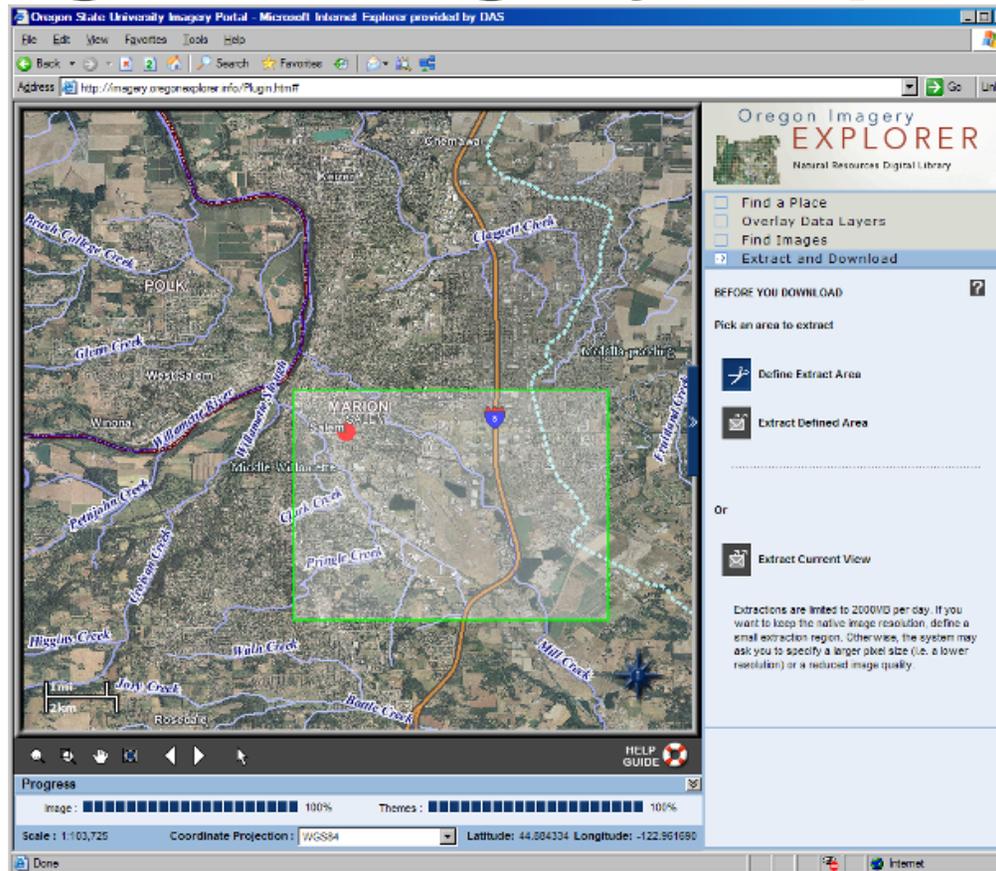
Building a Regional Capability



Homeland Security 36

Oregon Imagery Explorer

Extract data:
"Clip, Zip
and Ship"



Building a Regional Capability



Homeland Security 37

Oregon Imagery Explorer

Extract data:
"Clip, Zip
and Ship"

The screenshot shows a web browser window titled "http://imageextractor.oregonexplorer.info - Submit Image Request - Microsoft Internet Explorer provided by DAS". The page header includes the "Oregon Imagery EXPLORER" logo and "Natural Resources Digital Library" text. Below the header are tabs for "Basic Page" and "Advanced Page", with "Advanced Page" selected. The form contains the following fields and options:

- Image Name: 2005 0.5 meter orthoimagery
- Projection: WGS84/GEODETIC
- Output Format: JPEG
- Image Quality: Best
- Width & Height: 17559 & 12905
- Buttons: Re-Calculate, Maintain Aspect Ratio (checked)
- Input Size: 649 MB
- Approx. Output Size: 111 MB
- Estimated Download Time table:

Estimated Download Time					
Kbps	56	128	256	512	1500
Time (Mins)	278	122	61	31	11

Additional fields include Name and Email Address, a "Remember Me" checkbox, and "Submit" and "Cancel" buttons.

Building a Regional Capability



Homeland Security 38

Oregon Imagery Explorer

Web Map service (WMS)

- Widely used open protocol
- Data “Service” available via Internet
- “Service” is “Consumed” by clients including GIS software and other applications including Microsoft Office Products

The screenshot shows the Oregon Imagery Explorer website. The main content area is titled "STREAM IMAGERY" and explains that users can stream imagery through a Web Map Service (WMS) or through ECWP. It provides a URL for the WMS service: http://wms.oregonexplorer.info/ImageX/ecw_wms.dll?. A note states that this link will not display imagery by itself and that users must be in an application that supports WMS requests. It also provides a link to a tutorial PDF. Below this, there are "Quick steps to add Oregon Imagery Explorer imagery into ArcGIS 9.x":

1. In ArcCatalog click on GIS Servers -> Add WMS Server.
2. In the URL: box, type: http://wms.oregonexplorer.info/ImageX/ecw_wms.dll?
3. Click "Get Layers". You will see a list of the images in the WMS and the supported projections.
4. Click "OK". A newly added WMS service will be added to ArcCatalog called

The left sidebar contains navigation links such as "Home", "Available Imagery", "Access the Imagery", "Stream Imagery", "County Downloads", "View and Download Imagery", "ECWP", "Ways to use the Imagery", "About this Project", "Data Collections", "Reports and Publications", "Expertise and Contacts", "Additional Resources", "Tutorials", and "Making Maps". There is also a "Browse other Explorer Sites" section with links to various other explorers like Land Use Explorer, North Coast Explorer, Oregon Explorer, Oregon Hazards Explorer, Oregon Wildlife Explorer, Rural Communities Explorer, Umpqua Basin Explorer, and Wetlands Explorer.

Building a Regional Capability



Homeland Security 39

Transportation Framework

- Transportation Framework Team formed
 - <http://www.oregon.gov/ODOT/TD/TDATA/gis/TransFIT.shtml>
- Road Centerline Data Standard adopted
 - <http://www.oregon.gov/DAS/EISPD/GEO/docs/Transportation/RoadCenterlineDataStandardv5.pdf>
 - Oregon and Washington have agreed to use the standard for Road Centerline data development
 - California and Idaho are reviewing and considering adoption
 - This would allow each of the states to “join” together to create a single/common NW coverage for roads.
- Within Oregon the data is updated locally; ODOT is the data steward
- Integrated with state highways and federal resource roads
- Initial product will have road data from Federal and State as well as Benton Co, Clatsop Co, Jackson Co, Josephine Co, Linn Co, Polk Co
- Coordinated with regional & national models

Building a Regional Capability



Homeland Security 40

One-Road Pilot Data User Portal

- A Transportation Pooled Fund project
 - Prototype is up and running on the WA-Trans site
 - Plans are in development to port it to Oregon.
- Portal allows road authorities to check their data in/out to a common database.
 - Washington DOT is the lead for the project
 - Idaho DOT is a partner in the project as well

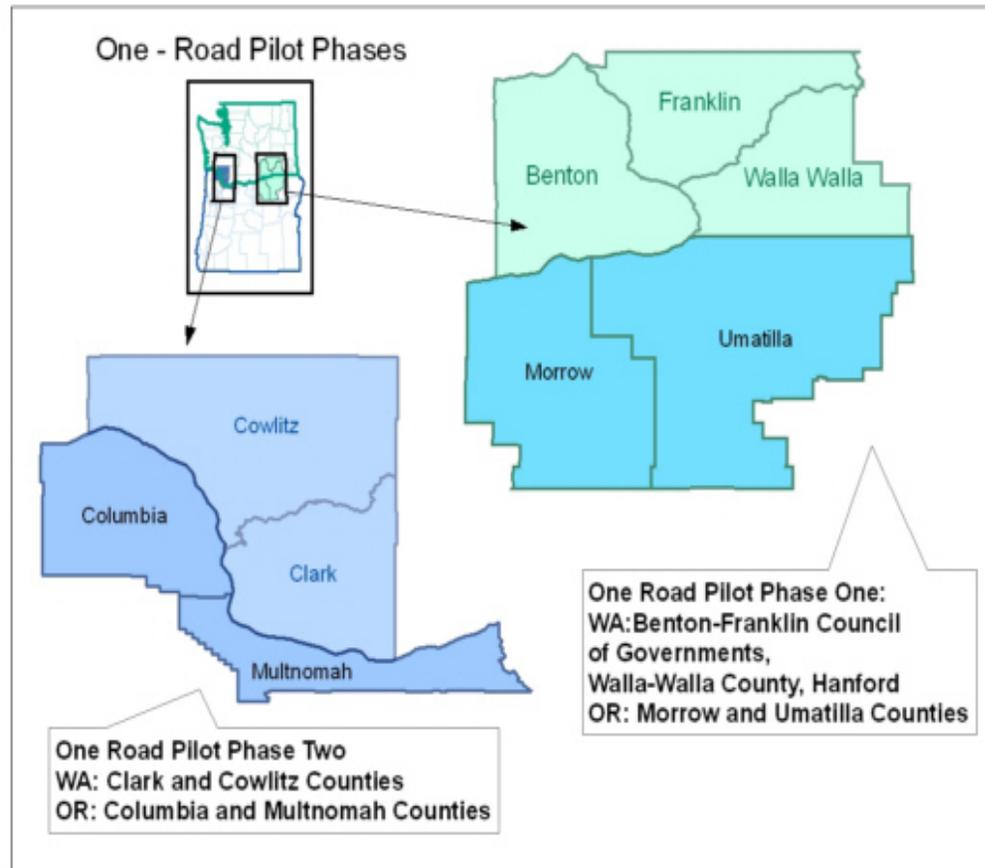
<http://www.wsdot.wa.gov/Mapsdata/TransFramework/Default.htm>

Building a Regional Capability



Homeland
Security

One-Road Pilot Data User Portal



Building a Regional Capability



Homeland Security 42

The screenshot shows the TripCheck website interface. At the top, there's a navigation menu with tabs for Road | Weather, Travel Center, Transportation Options, and About TripCheck. Below this is a sub-menu with Road Conditions, Weather Outlook, Cameras, Custom Cams, and Trucking Center. The main content area is titled "Statewide Cameras" and includes instructions: "Click any camera icon to view latest camera image." and "Use the Custom Cams page to create a customized view of up to 10 roadside camera images." A map of Oregon is displayed with several camera locations marked. Three callouts point to specific areas: "CLICK HERE for Portland Metro Map", "CLICK HERE for Bend Map", and "CLICK HERE for Medford Map". A fourth callout at the bottom says "Click HERE for California cameras". On the right side, there's a "511" logo and a "Contact Us" link. A pop-up window titled "TripCheck-Road Camera - Windows Intern..." is open, showing a live video feed of a road. The pop-up text includes "I-5 at Wilsonville Rd.", "Updated Nov 24 2009 12:11 PM", "Camera 72", "ODOT", "TripCheck.com", "Milepost 283.90", and a "Live streaming video" link.

Building a Regional Capability



Homeland Security 43

Cadastral – Tax Lot Data



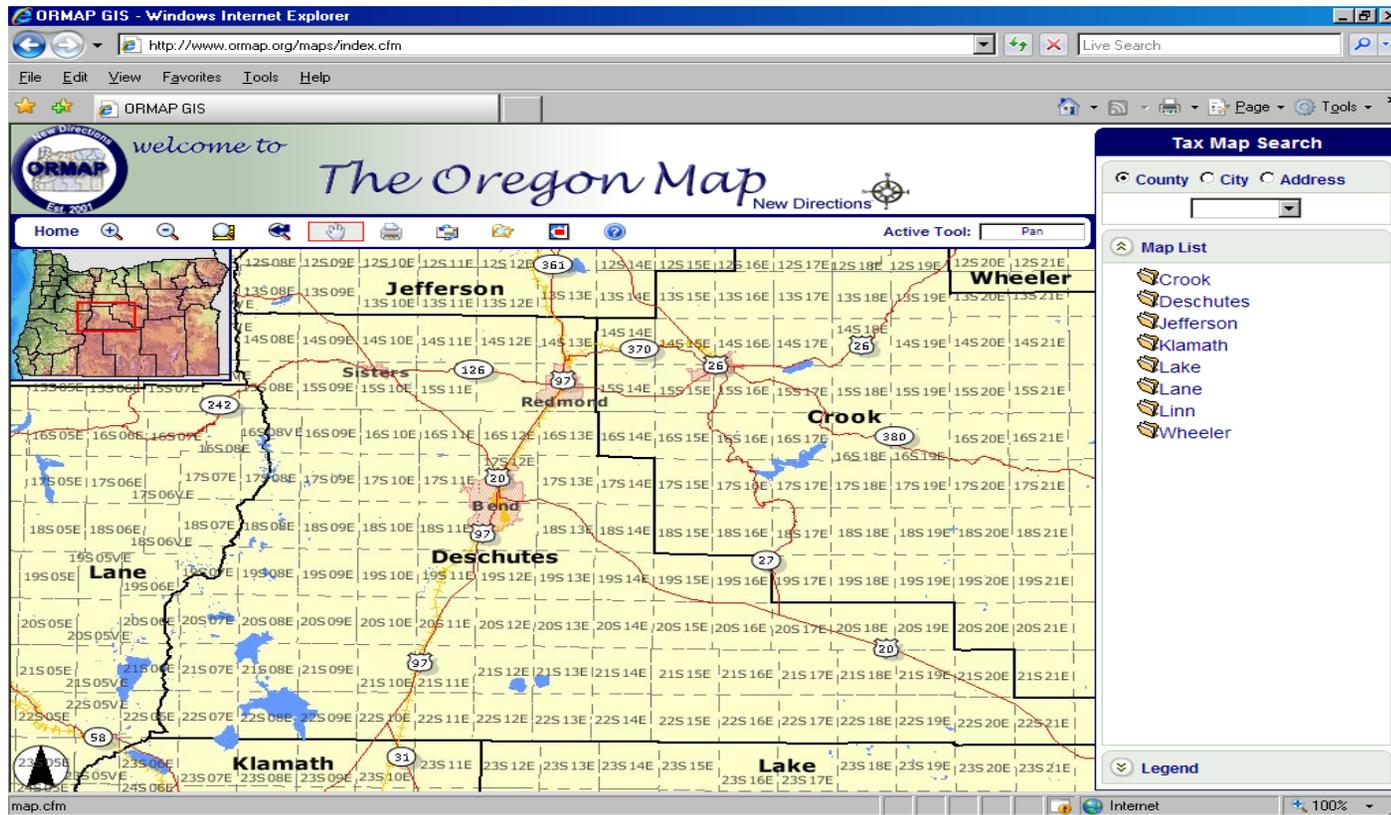
Vision: 36 Counties, 9 Regions, One State, One Map, One Taxlot
Base GIS for Public and Private use

Building a Regional Capability



Homeland Security 44

Cadastral – Tax Lot Data



Building a Regional Capability



Homeland Security 45

Cadastral – Tax Lot Data

- Cadastral Data Sharing Workgroup formed
- Cadastral Data Exchange Standard adopted
- GIS Cadastral Data License Agreement in place
- 2007-09 - Agreements with 18 counties to date
- 2009-11 – focus on completing agreements with the remaining 18 counties
- 09-11 - FIT proposal to OGIC would provide (\$72,000)
 - \$1000 per county/per year to deliver data in standard format to Dept. of Revenue ORMAPP by Feb. 1 of each calendar year

Building a Regional Capability



Homeland
Security

Cadastral – Tax Lot Data

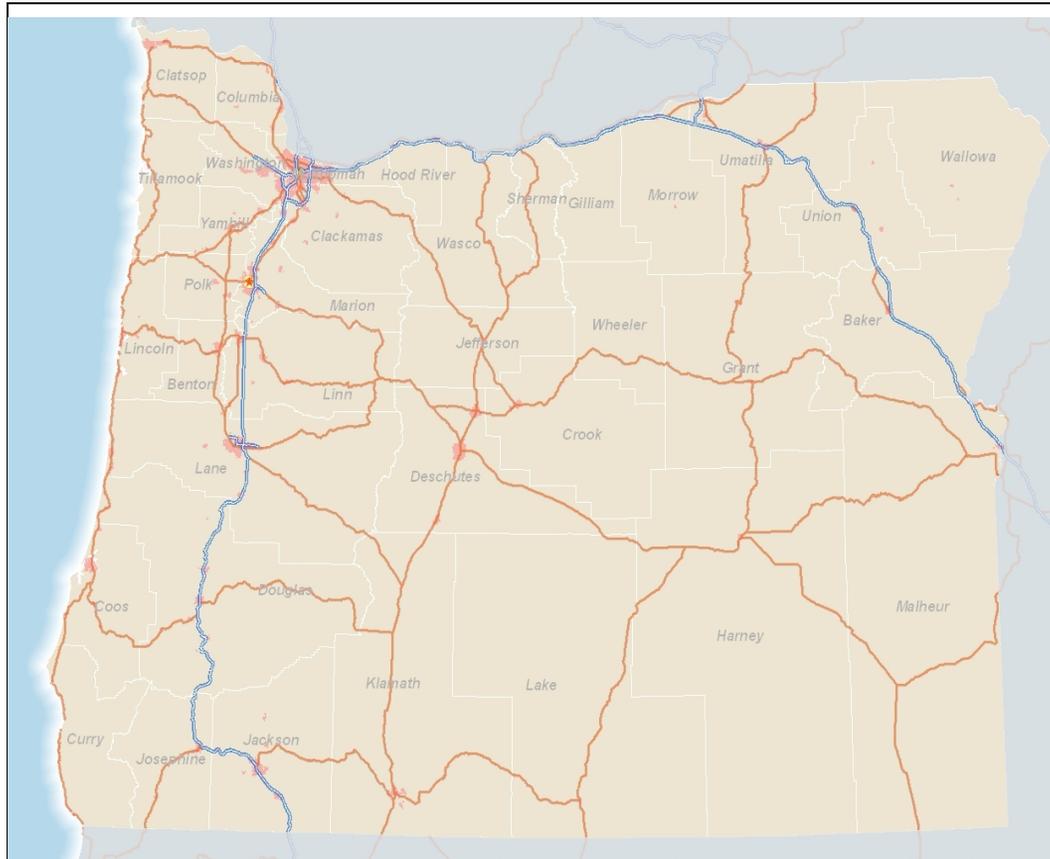
- 18 Counties have signed the Cadastral Data Sharing agreements to date
 - Baker
 - Benton
 - Columbia
 - Crook
 - Curry
 - Gilliam
 - Hood River
 - Jackson
 - Jefferson
 - Josephine
 - Klamath
 - Lincoln
 - Marion
 - Multnomah
 - Polk
 - Tillamook
 - Union
 - Wasco
- Data-sharing Challenges can be overcome
 - Privacy/Confidentiality – Liability concerns
 - Proper use of the data – Liability concerns
 - Funding – potential loss of revenue

Building a Regional Capability



Homeland Security 47

Oregon Broadband Mapping and Planning



Federal Stimulus Grant

Lead Agency – PUC

Purpose –

- Collect data to identify existing Broadband infrastructure and service areas throughout Oregon
- Determine served, underserved and unserved areas across Oregon
- Create an interactive Oregon Broadband website and maps
- Develop a Broadband Plan for Oregon

Building a Regional Capability

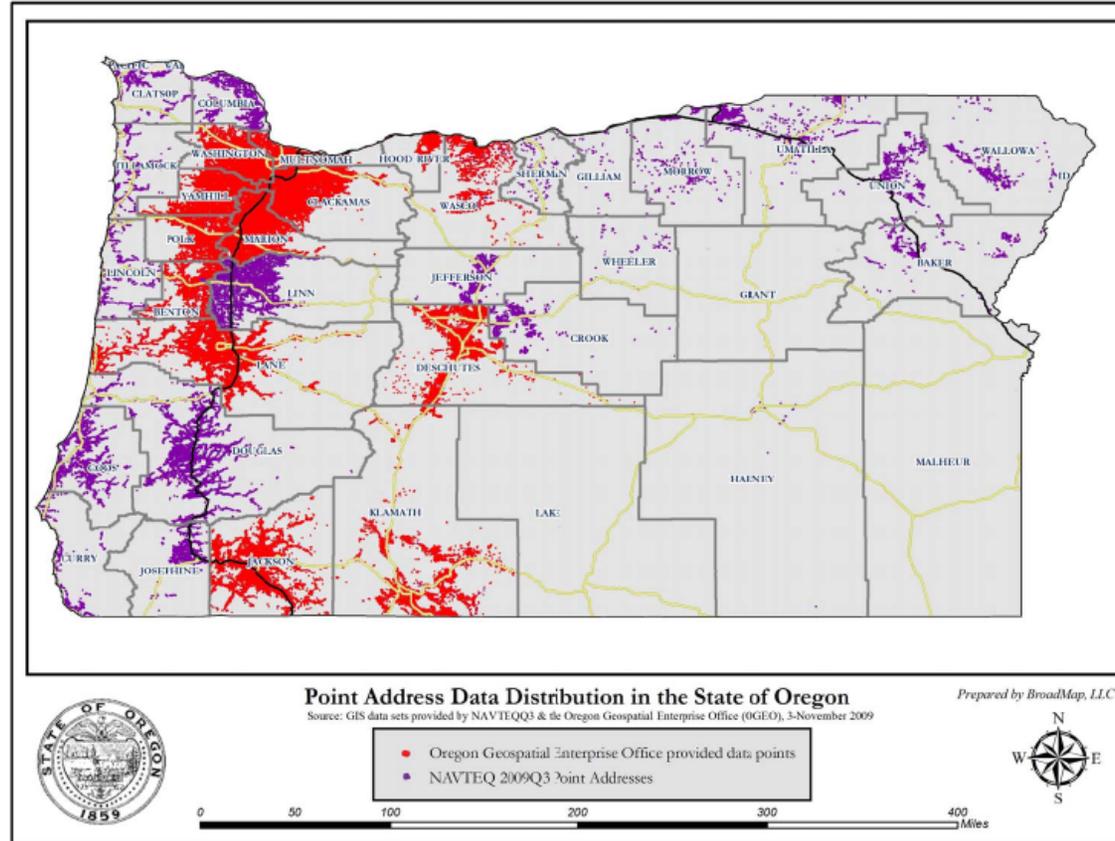


Homeland Security 48

Oregon Broadband Mapping and Planning

Goal: Master Address File

- **Essential** for assessing Broadband availability – served, underserved, & unserved areas
- **Essential** for public safety, emergency management and response and many other public service purposes



Building a Regional Capability



Homeland Security 49

Oregon Incident Response Information System

OR - IRIS

In Partnership with:



Building a Regional Capability



Homeland Security 50

OR_IRIS - ArcReader

File Edit View Bookmarks Tools Window Help

1:2,509,233 Transportation/Infrastr 0.70 Highlighter

87%

Table of Contents

- Transportation/Infrastru
- Drinking Water Resourcu
- Potential Toxic Sources
- Incident Notification Gro
- Emergency Response Re
- Wildlife/Habitat
- Natural Resources
- Landuse/Population
- Rivers
- Base Data
- Navigation Base

Oregon-Incident Response Information System:
OR-IRIS

DEQ

Portland State UNIVERSITY

For Official Use Only

In Partnership with

Oregon State Fire Reserve
QUALITY SERVICE FIRST

Department of Human Services
Office of Environmental Public Health

Zoom the map to a particular scale 11.7 x 8.3 Inches 120°35'40.02"W 43°43'47.41"N 6.07 3.37 Inches

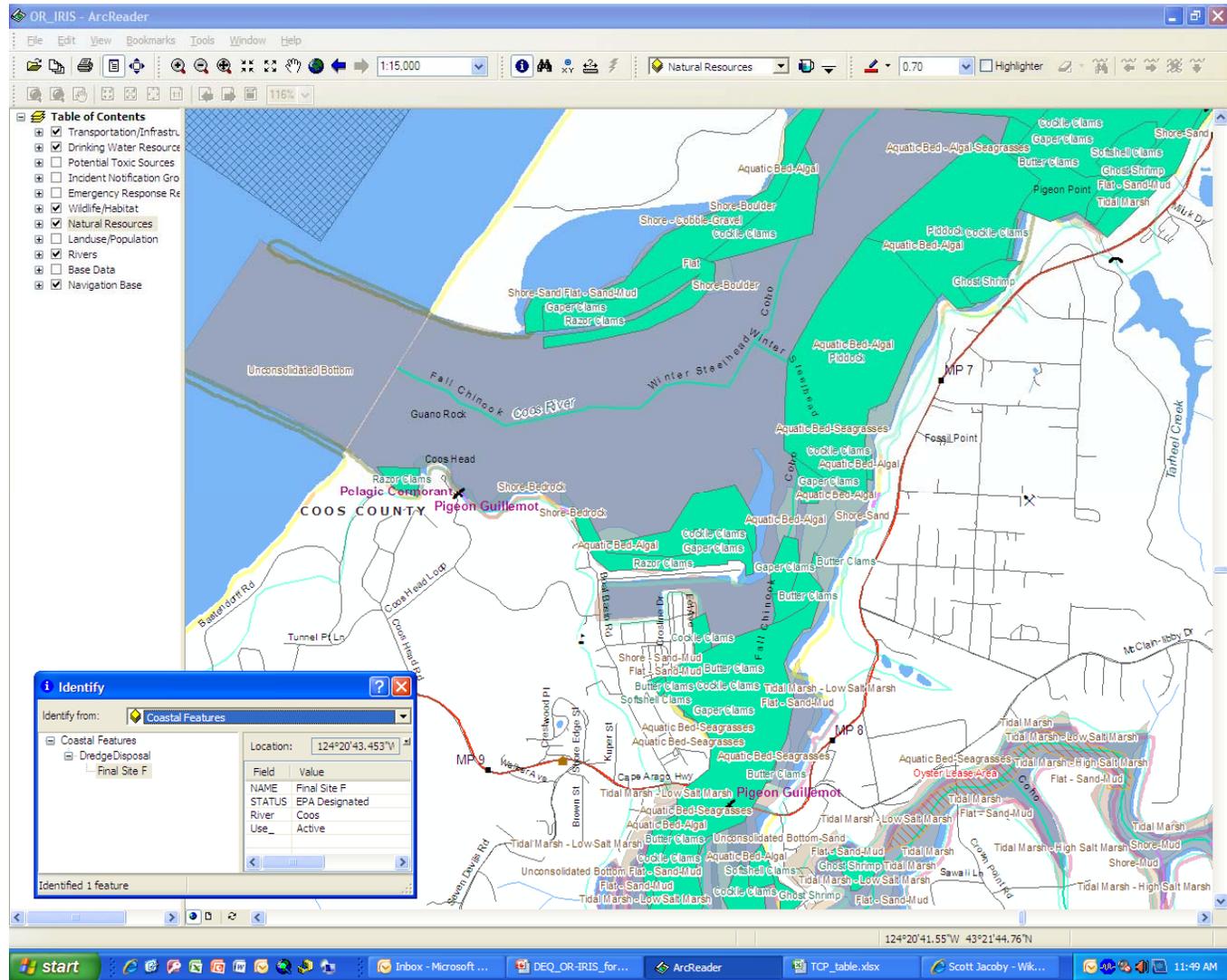
start Inbox - Microsoft ... DEQ Team Low-Te... ArcReader TCP_table.xlsx attenuate curve - ... 11:35 AM

Building a Regional Capability



Homeland Security 51

Wildlife/Habitat
example – Coos
Bay, Oregon

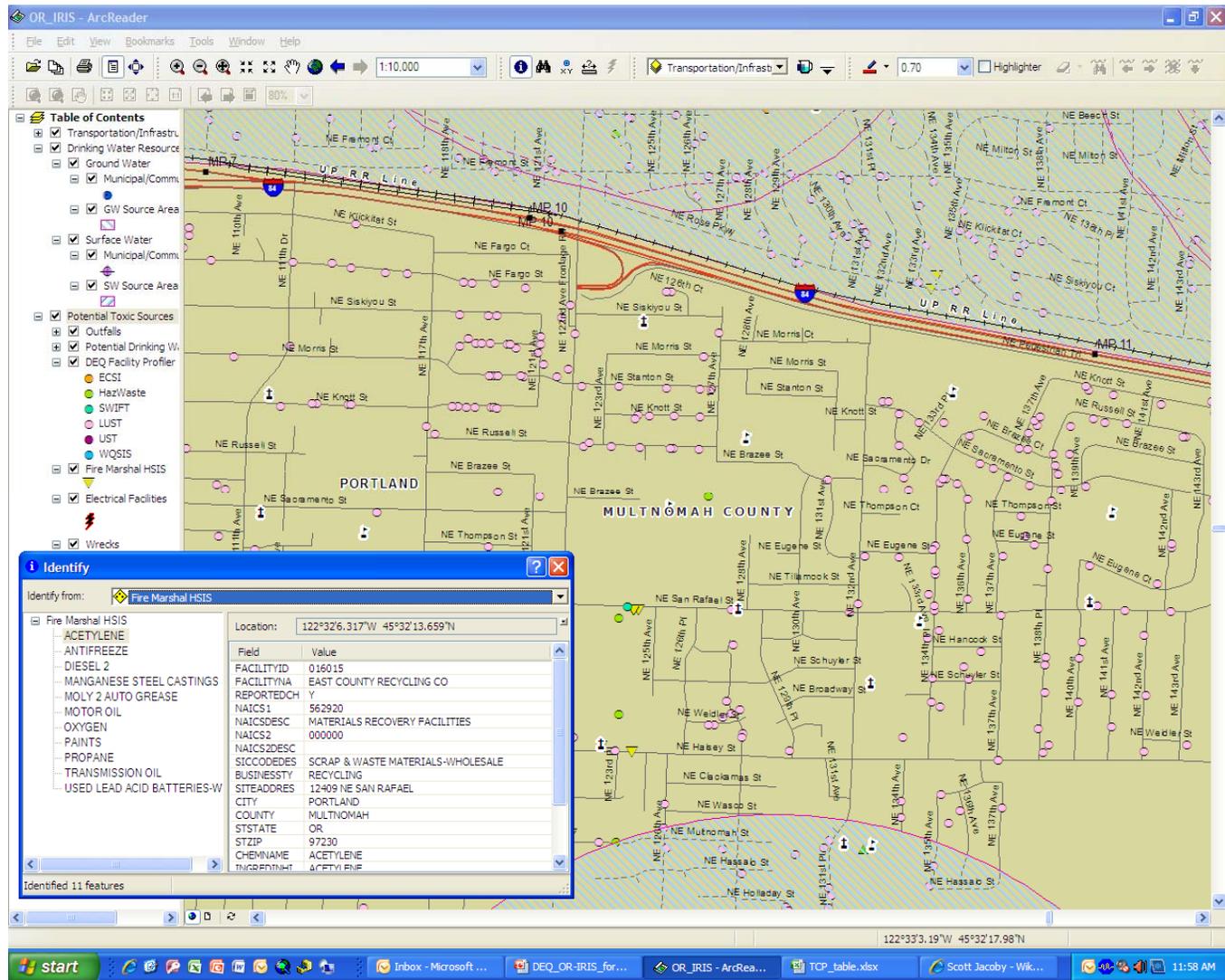


Building a Regional Capability



Homeland Security 52

Potential
toxics/drinking
water example
– East Portland

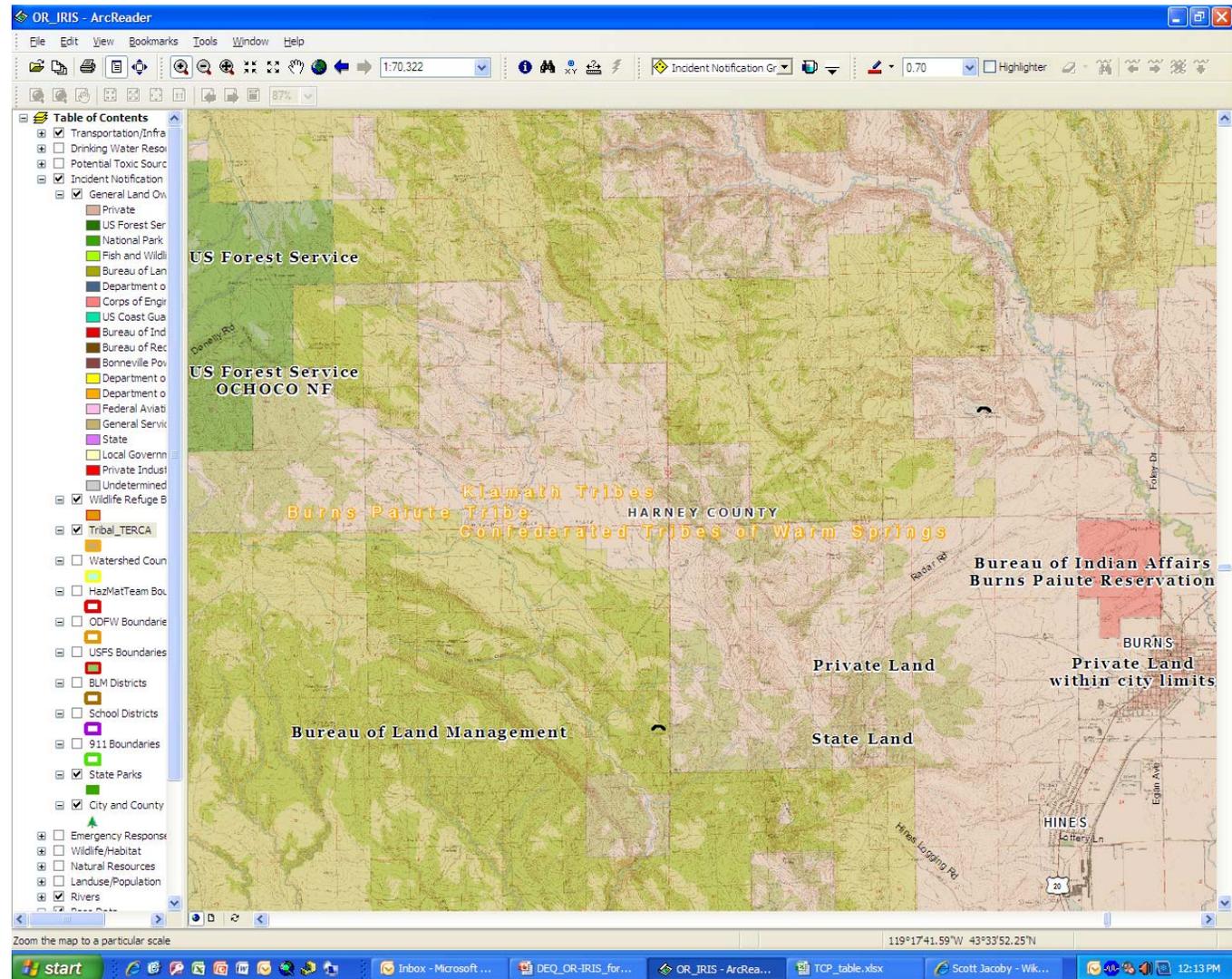


Building a Regional Capability



Homeland Security 53

Land
Ownership/Tribal
coordination
example –
Burns/Harney Co.



Building a Regional Capability



Homeland
Security 54

Oregon Hazards Explorer

The screenshot shows the Oregon Hazards Explorer website. At the top, there is a navigation bar with the OSU logo and text: "OSU Oregon State University", "GEO", "OSU Home | OSU Libraries", and "Ask a Librarian". Below this is a search bar with a "Go" button. The main content area is divided into a left sidebar and a main panel. The sidebar contains a list of links: Home, Learn about Oregon Hazards, Issues and Actions, Oregon Hazard Stories, About this Site, Maps, Charts and Tables, Photos and Videos, Reports and Publications, Expertise and Contacts, and Additional Resources. Below these are links for Help, Glossary, and FAQ. The main panel features a large banner with the title "Oregon Hazards EXPLORER" and the subtitle "Natural Resources Digital Library". Below the banner is a description: "Information about hazards in Oregon for landowners, planners, agency staff and interested citizens". A section titled "HAZARDS IN YOUR AREA" includes a link to "Oregon Hazards Reporter" and a brief description of the tool. Below this is a link to "Generate a report of known hazards". At the bottom of the main panel, there are two sections: "SUBMIT YOUR RESOURCES TO THE EXPLORER DIGITAL LIBRARY" and "ACCESS HAZARDS GIS DATA". The website is displayed in a browser window with a taskbar at the bottom showing "Internet" and "100%" zoom.

Building a Regional Capability



Homeland Security 55



Map Layers

- Geological Hazards
- Flood Hazards
- Wildfire Risk**
- Oregon Taxlots

Overview Map

Find on Map

Lat: 45.9664
Long: -116.0815

150 miles

INSTRUCTIONS

1 Select Location

- ▶ Enter address or place name in "Find on Map" (for example, "Corvallis" or "122 Valley Library, Corvallis")
- OR --
- ▶ Use the map controls with your mouse to zoom (magnify) and pan (move) the map.
- ▶ If you hold down the Ctrl key and drag your mouse on the map you will zoom to the rectangle you make.
- OR --
- ▶ Click on Draw Mode button then draw the area of interest on the map. Left click draws corners and right click selects the area.
- OR --
- ▶ Click on "Oregon Taxlots" under "MapLayers"
- ▶ Enter the address or use the map controls to get close enough to see the taxlots.
- ▶ Hold down the Shift key and click on the taxlot.

2 Generate Report

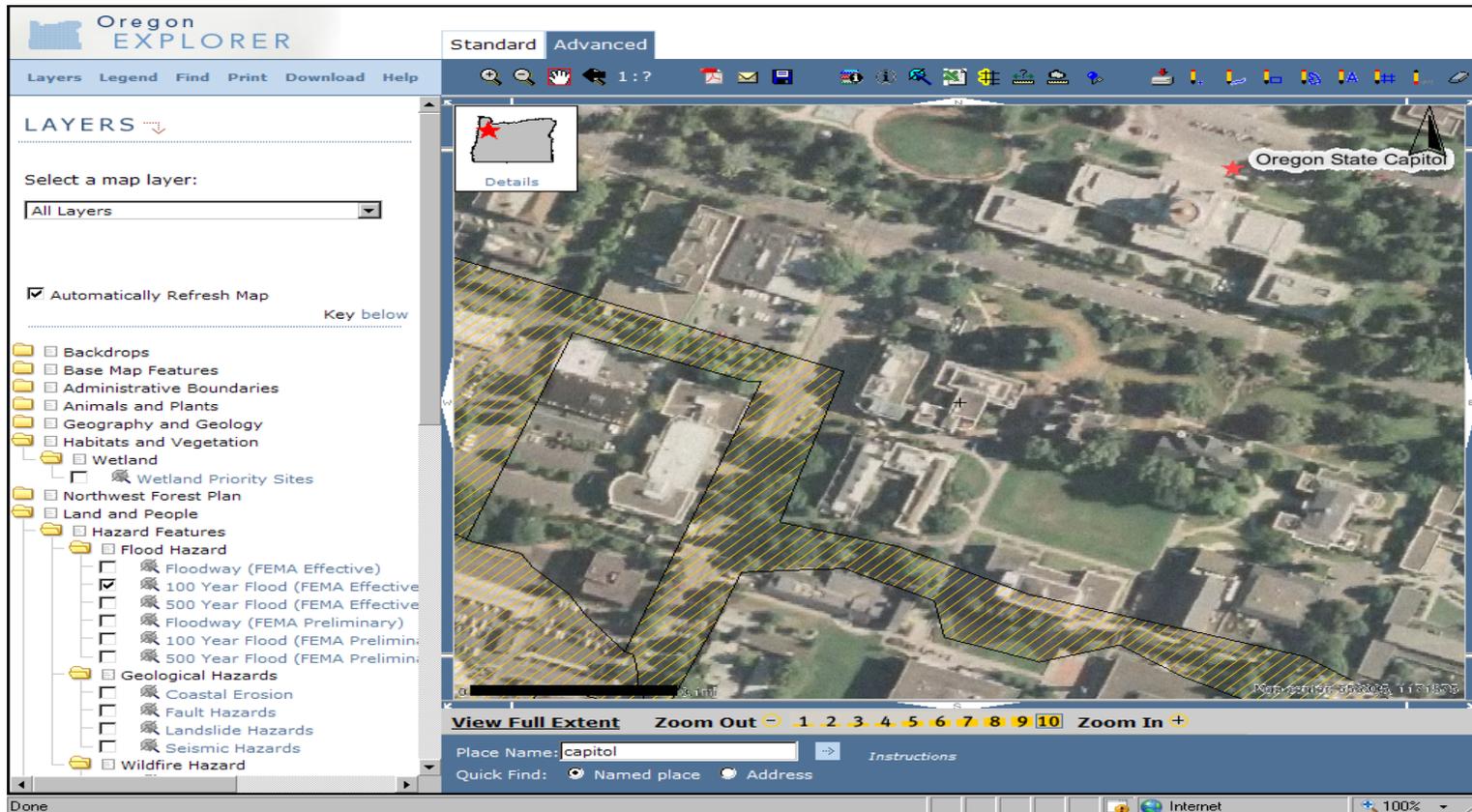
- ▶ Right-click on location on map, this will automatically generate report. (Note: Make sure to zoom into specific location of interest.)
- OR --
- ▶ If you chose an area of interest in Draw Mode, then enter the Title and press "Report"

Done Internet 100%

Building a Regional Capability



Oregon Hazards Explorer



Building a Regional Capability



Homeland Security 57

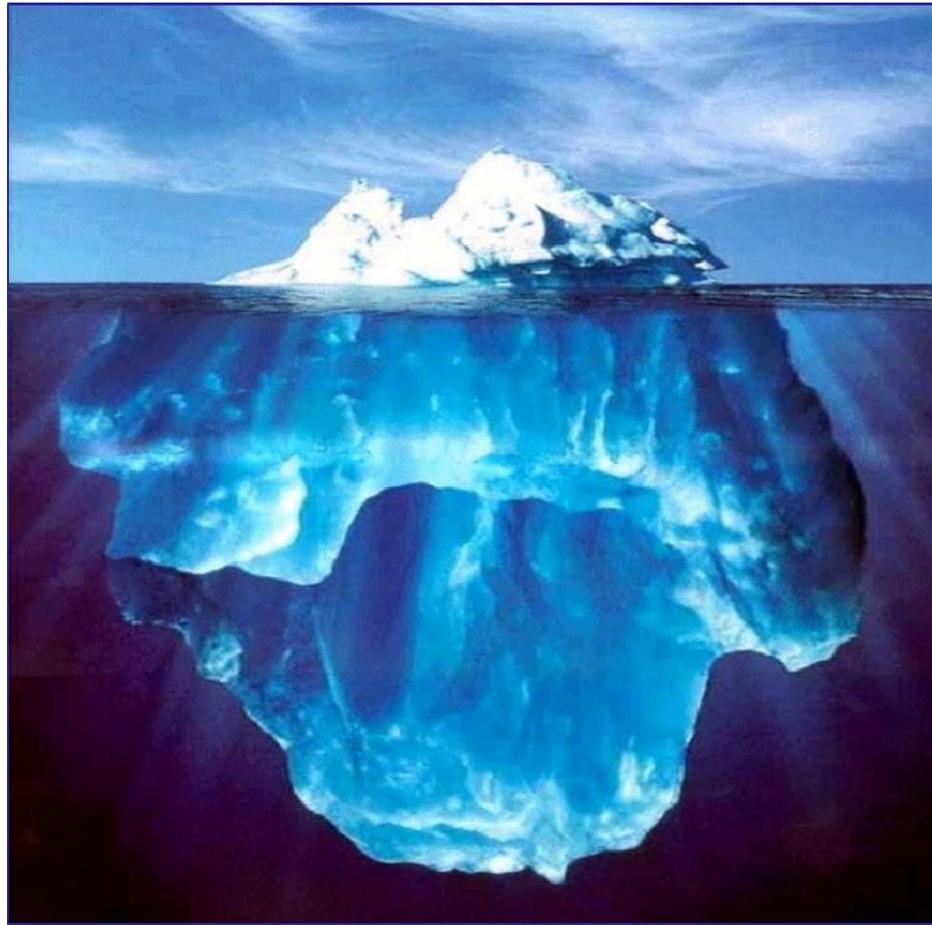
Future Needs/Next Steps

Building a Regional Capability



Homeland Security 58

Much Work Remains To Be Done



Building a Regional Capability



Homeland Security 59

Future Needs/Next Steps

- Re-energize the Oregon Hazards/Preparedness FIT
 - <http://www.oregon.gov/DAS/EISPD/GEO/fit/hazards.shtml>
 - Last meeting held in March 2009
- Confirm Hazards Preparedness FIT Workgroup leads & seek volunteers to participate workgroup activities.

Current Workgroups

- Floods
- Landslides
- Earthquake
- Wildfire
- Tsunami
- Volcanic Hazards
- Naturally Occurring Hazardous Materials
- Geologic Floodplain
- Coastal Erosion
- Climate (in coordination with the Climate FIT)
- Hazards Website Coordination
- Tsunami
- Structures and Places

Building a Regional Capability



Homeland Security 60

Future Needs/Next Steps

- Conduct outreach to increase Federal, Regional, Tribal, and Local government involvement
- Identify stakeholder data requirements, available data sets, current GIS architecture and capabilities
- Review and finalize Data Inventory Spreadsheet
- Come to agreement on authoritative data sources and identify and/or establish data stewards
- Establish Hazards/Preparedness FIT data standards
- Work with data stewards to make needed data available for Pacific NW Pilot and ongoing use

Building a Regional Capability



Homeland
Security

Future Needs/Next Steps

- Listserve established:
 - http://listsmart.osl.state.or.us/mailman/listinfo/haz_and_prep_fit

Hazards Lead

Ian Madin, Chief Scientist
Oregon Department of Geology
and Mineral Industries
971-673-1542
ian.madin@dogami.state.or.us

Preparedness Lead

Ken Murphy, Director
Oregon Military Department
Office of Emergency Management
(503) 378-2911, ext. 22225
kmurphy@oem.state.or.us

GIS Framework Data Coordinator

Milt Hill, Geospatial Enterprise Office
Phone: 503-378-3157
Email: milton.hill@state.or.us

Building a Regional Capability



Homeland
Security 62

Resources

- Oregon Geographic Information Council
 - <http://www.oregon.gov/DAS/EISPD/GEO/ogic/OGIC.shtml>
- Oregon Geospatial Enterprise Office
 - <http://gis.oregon.gov/>
- Oregon Geospatial Data Clearinghouse
 - <http://gis.oregon.gov/DAS/EISPD/GEO/sdlibrary.shtml>
- Oregon Framework Implementation Team
 - <http://www.oregon.gov/DAS/EISPD/GEO/fit/FIT.shtml>
- Oregon Spatial Data Library
 - <http://spatialdata.oregonexplorer.info/>

Building a Regional Capability



Homeland Security 63

Resources

- Oregon Imagery Explorer – Statewide Ortho Imagery
 - <http://www.oregonexplorer.info/imagery/>
- One Road Pilot Data User Portal (Washington, Oregon, Idaho, etc.)
 - <http://www.wsdot.wa.gov/Mapsdata/TransFramework/Default.htm>
- ODOT TripCheck
 - <http://www.tripcheck.com/>
- ORMMap – Cadastral/Tax Lot Data
 - <http://www.ormap.org/>
- Oregon Hazards Explorer
 - <http://www.oregonexplorer.info/hazards/>

Building a Regional Capability



Homeland
Security 64

Resources

- Oregon Virtual USA – PNW Pilot Website
 - <http://www.oregon.gov/DAS/EISPD/GEO/VirtualUSA.shtml>
- Common Operating Picture Data Inventory Spreadsheet V1
 - http://www.oregon.gov/DAS/EISPD/GEO/docs/COP_data_inventory_sheet_v1.xls
- Hazards/Preparedness Framework Implementation Team
 - <http://www.oregon.gov/DAS/EISPD/GEO/fit/hazards.shtml>
 - Listserve:
http://listsmart.osl.state.or.us/mailman/listinfo/haz_and_prep_fit

Building a Regional Capability



Homeland Security 65

Contact Information

- Sean McSpaden, Deputy State Chief Information Officer
 - Phone: 503-378-5257
 - Cell: 503-798-1507
 - Email: Sean.L.McSpaden@state.or.us
- Cy Smith, State Geographic Information Officer
 - Phone: 503-378-6066
 - Email: cy.smith@state.or.us
- Milt Hill, GIS Framework Data Coordinator
 - Phone: 503-378-3157
 - Email: milton.hill@state.or.us

Building a Regional Capability



Homeland Security 66

Lunch Break

Building a Regional Capability



Homeland Security 67

Cost/Benefit/Timing to do Phase I of Pilot

Oregon Rep

D'Arcy Morgan & Chris McIntosh

Building a Regional Capability



Homeland
Security 68

Cost/Benefit/Timing to do Phase I of Pilot

- Community of Practice Tool
- Labor Resources
- Costs
- Time to Implement
- Considerations: data quality, security, infrastructure

Building a Regional Capability



Homeland Security 69

Lessons Learned from the SE Regional Operations Platform Pilot (ROPP)

Chris McIntosh

Building a Regional Capability



Homeland
Security 70

Lessons Learned -- Part 1 (*Operations*)

Virtual USA – SE ROPP

ROPP Overview

- 6 States: Alabama, Florida, Louisiana, Mississippi, Texas, Virginia
- 1 Observer: Georgia, Tennessee
- Beginning State: 2 states had platforms (different technology bases)
- Currently: 6 states have platforms; Georgia building theirs.
- Governance Successes: Project Charter & Governance Compact
- Homeland Security Director and Emergency Manager Relationship
- Major Milestone – Phase I: November 4th Demonstration

Key Lessons

- Relationship building with jurisdictions (localities) within state is critical
- Making the case – maintain information = value added
- Reassure data providers of ownership
- Open collaboration
- Cultural shift harder than technical solution
- Better relationships & governance procedures with commercial partners

Questions? Chris McIntosh chris.mcintosh@touchstone.com

Building a Regional Capability



Homeland Security 71

Lessons Learned -- Part 2 (*Technical*)

Virtual USA – SE ROPP

ROPP Overview & Key Lessons

- From 2 to 7 platforms – state eagerness to acquire technology
- Varying levels of functionality – that’s ok
- Collaborative Partnership
 - Technical development facilitated by federal partners
 - States set pace, etc.
- Preserve and respect data origination
 - Display, not store
- Technical solutions – available!
 - Open source (cost effective)
 - Attainable
 - Interim vs. Long Term Solutions
 - ROPP Webpage
 - “The It”

Questions? *Chris McIntosh*, chris.mcintosh@touchstone.com

Building a Regional Capability



Homeland Security 72

Agreement to Next Steps

Ken Murphy and John Sneed

Building a Regional Capability



Homeland Security 73

Pilot Phase I (Oct-Dec 2009)

- Introduce Virtual USA to Oregon stakeholders
- Identify Oregon stakeholder data requirements, available data sets, current GIS architecture and capabilities
- Identify three permanent representatives to the regional PNW Pilot steering committee
- Begin forming state level steering groups

Building a Regional Capability



Homeland
Security 74

Pilot Phase II (Jan-Mar 2010)

- Oregon partners provide confirmation of their operational and data requirements
- Fuse separate state requirements and confirm regional information requirements from participating states and federal partners
- Form steering groups and hold initial meetings

Building a Regional Capability



Homeland Security 75

Pilot Phase III (Apr-Jun 2010)

- Build out a 'proof of concept'
- Determine opportunities for funding, sustainment of long term effort beyond 30 Sep 2010.
- Begin developing legislative policy option / funding packages to encourage state level support, or..
- Confirm grant funding opportunities (multi-county, multi-jurisdictional, multi-state)

Building a Regional Capability



Homeland Security 76

Pilot Phase IV (Jul-Sep 2010)

- Conduct a pilot demonstration involving Oregon, Washington, Alaska, Idaho and Montana plus federal partners
- Winter storm scenario
- Confirm Oregon partners' intent to support continuation of the PNW Pilot, and continued improvement of state and region information sharing /mapping capabilities

Building a Regional Capability



Homeland Security 77

Regional Steering Committees and Working Groups

- Executive Steering Group: One senior executive from each state (currently MG Rees)
- Regional Steering Group: 2-3 per state (initially OEM Director, Deputy state CIO)
- Technical Working Group: 1 per state
- Operations Working Group: 1 per state

Building a Regional Capability



Homeland Security 78

State Working Groups

- Operational (TBD)
- Technical (TBD)
- Opportunity to continue developing solutions within Oregon while participating in PNW Pilot
- Recommendation: leverage current Oregon Geospatial Information sharing process and structures
 - Hazards/Preparedness Framework Implementation Team
 - <http://www.oregon.gov/DAS/EISPD/GEO/fit/hazards.shtml>
 - Other workgroups as needed

Building a Regional Capability



Homeland Security 79

How You Can Help

- Get Involved!
- Contact us to confirm your interest in participating in one or more workgroups
- Review and comment on the data inventory
- Identify resources you/your organization can contribute to the effort
- Voice your questions and concerns

Building a Regional Capability



Homeland
Security 80

Closing Remarks

Major General Rees

Building a Regional Capability



Homeland
Security