Technology Services Board Quarterly Meeting

March 13, 2018

9:00 a.m. – 12:00 p.m.

WA · Office of the Chief Information Officer

AGENDA

TOPIC	LEAD	PURPOSE	TIME
Welcome and opening remarks	Rob St. John	New member intro	9:00
Geospatial Program & Shared Services	Sue Langen Joanne Markert	Information / Discussion	9:10
Radio Update • **State Interoperability Executive Committee Update** • **WSDOT Land/Mobile Radio Project– First Qtly Report** o **John Nesbit, Executive Sponsor** o **Tim McDowell, Project Manager** o **Grant Rodeheaver, CIO**	Alex Alben Michael Marusich	Information / Discussion	9:40
FirstNet/OneNet Update	Alex Alben Shelley Westall	Information	10:10
BREAK			10:30
Privacy Office Updates	Alex Alben Will Saunders	Information	10:40
Decision Package Prioritization Criteria for Next Biennium	Sue Langen Derek Puckett	Discussion	11:10
Project Oversight & TSB	Rob St. John Sue Langen	Discussion	11:40
Public Comment			11:55

Current TSB Members

Industry Members

Butch Leonardson– Leonardson Leadership Services

Paul Moulton– Costco

Legislative Members

Rep. Mark Harmsworth– House R

Rep. Zack Hudgins - House D

Sen. Patty Kuderer– Senate D

Sen. Mark Miloscia - Senate R

Executive Branch (Agency Directors)

Rob St. John– Acting CIO & Chair

David Danner - UTC

Tracy Guerin– DRS

Vikki Smith - DOR

Other Government

Trever Esko– Snohomish County

Jeff Paulsen– Labor Rep

Members present

Members absent

Geospatial Program & Shared Services

Information

Geographic Information Systems (GIS)

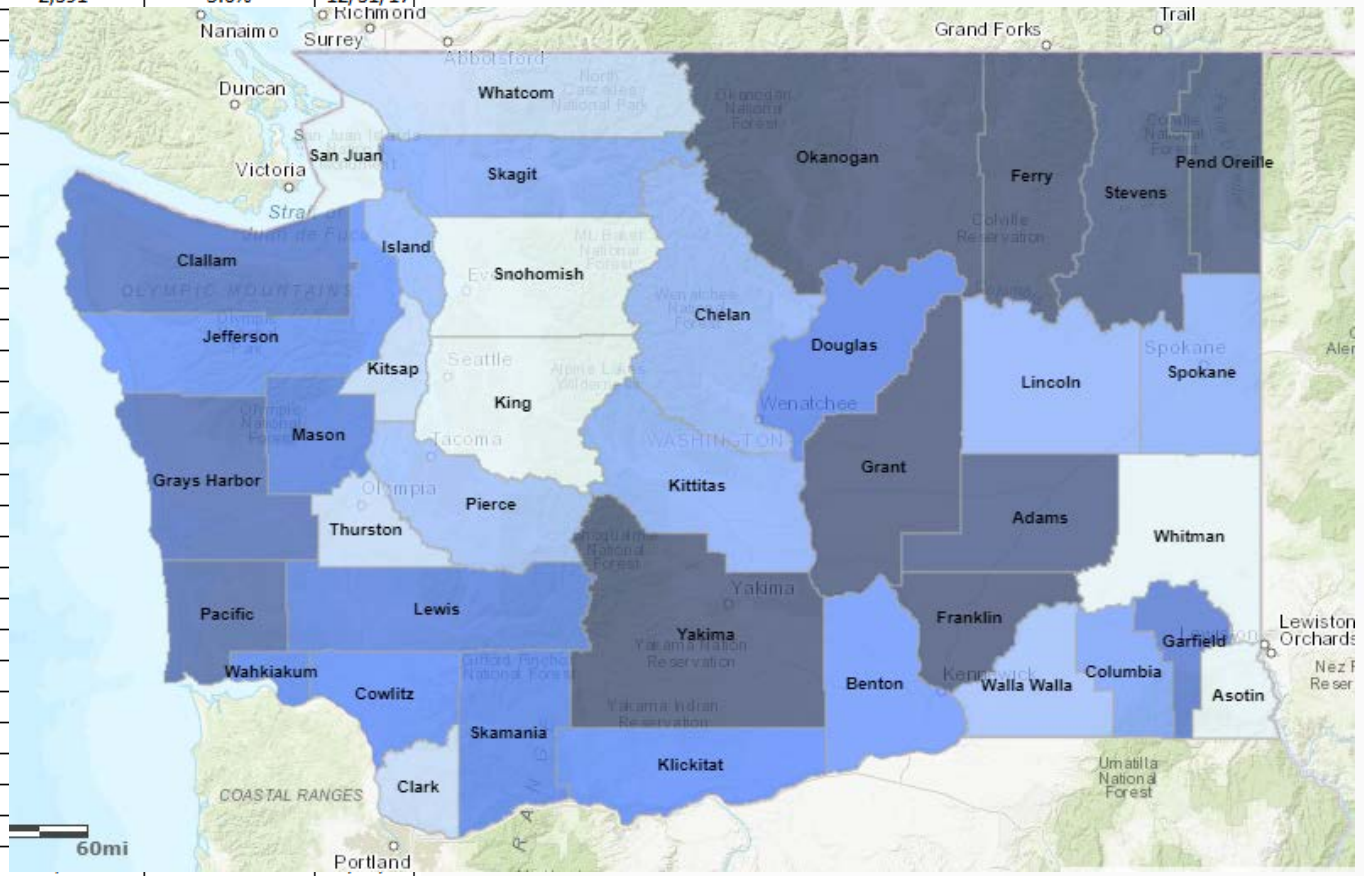
Performs spatial analysis to understand:

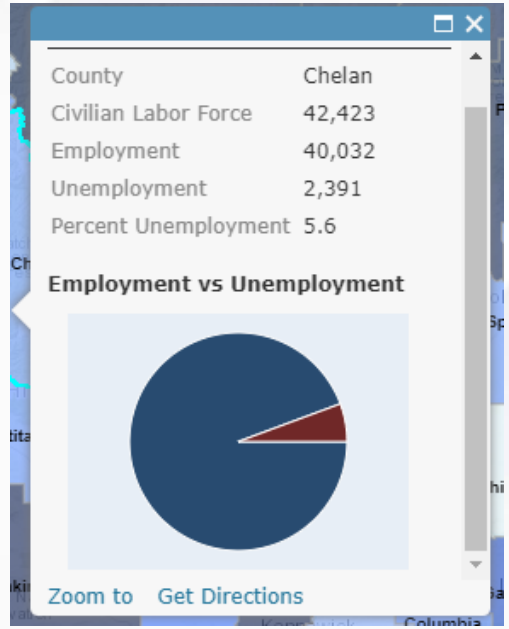
- Where?
- Best location?
- How are places related?
- Detecting geographical patterns
- Making predictions

"Locational Intelligence"

Geographic Perspective = Locational Intelligence

County	Civilian Labor Force	Employment	Unemployment	Unemployment Rate	Date
Adams	8,512	7,849	663	7.8%	12/31/17
Asotin	10,408	9,936	472	4.5%	12/31/17
Benton	96,357	90,454	5,903	6.1%	12/31/17
Chelan	42,423	40,032	2,391	5.6%	12/31/17
Clallam	28,334	26,351			
Clark	230,626	219,094			
Columbia	1,784	1,679			
Cowlitz	46,206	43,286			
Douglas	20,056	18,741			
Ferry	2,567	2,204			
Franklin	39,264	36,126			
Garfield	958	892			
Grant	43,110	39,637			
Grays Harbor	28,470	26,420			
Island	34,821	32,923			
Jefferson	12,156	11,398			
King	1,233,428	1,188,984			
Kitsap	121,609	115,529			
Kittitas	21,886	20,648			
Klickitat	9,861	9,242			
Lewis	33,799	31,523			
Lincoln	4,899	4,623			
Mason	24,123	22,499			
Okanogan	18,884	17,331			
Pacific	8,294	7,684			
Pend Oreille	4,834	4,453			
Pierce	429,251	406,195			
San Juan	7,937	7,581			
Skagit	59,715	56,270			
Skamania	5,290	4,947			
Snohomish	420,592	403,650			
Spokane	243,030	229,230			
Stevens	18,451	16,997	1,454	7.9%	12/31/17
Thurston	137,080	130,183	6,897	5.0%	12/31/17
Wahkiakum	1,301	1,217	84	6.5%	12/31/17
Walla Walla	29,367	27,788	1,579	5.4%	12/31/17





*Darker color indicates higher percentage of unemployment

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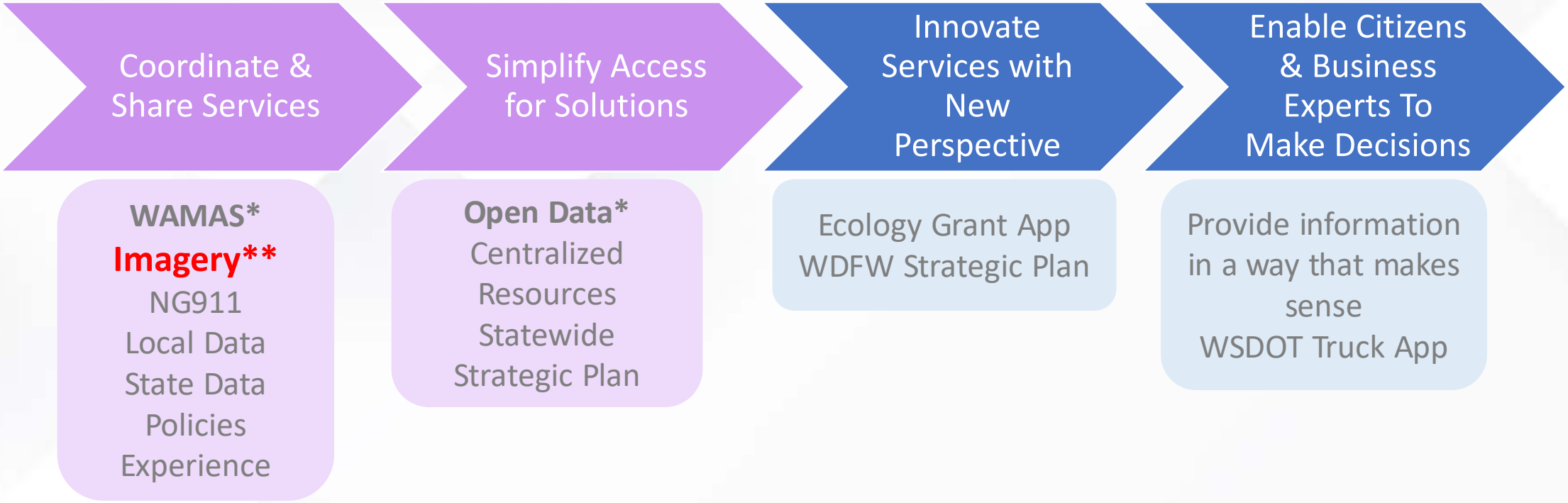
Accomplishing GIS at the State

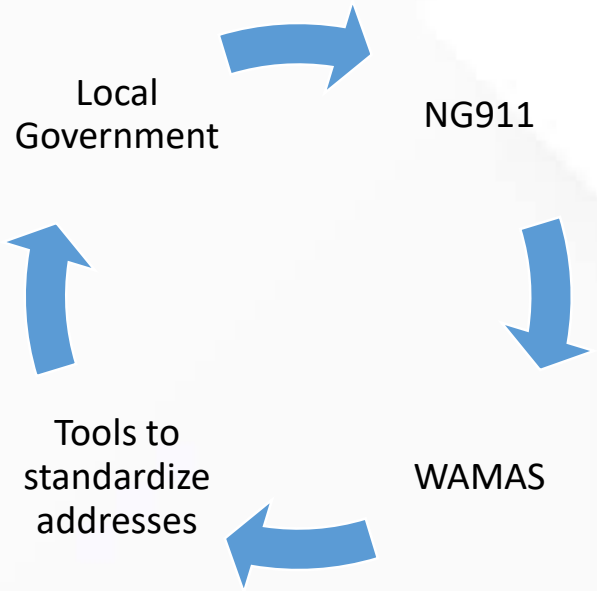


*Funded through allocation circa 2014

**Funded through Fee for Service (AKA Pass the Hat)

Washington Master Addressing Service (WAMAS)

- Set of data (address points, street centerlines and other information to support finding an address)
- Address locations are compiled into tools
- Local Government and DSHS, DOH, DOR
- WAMAS Guide

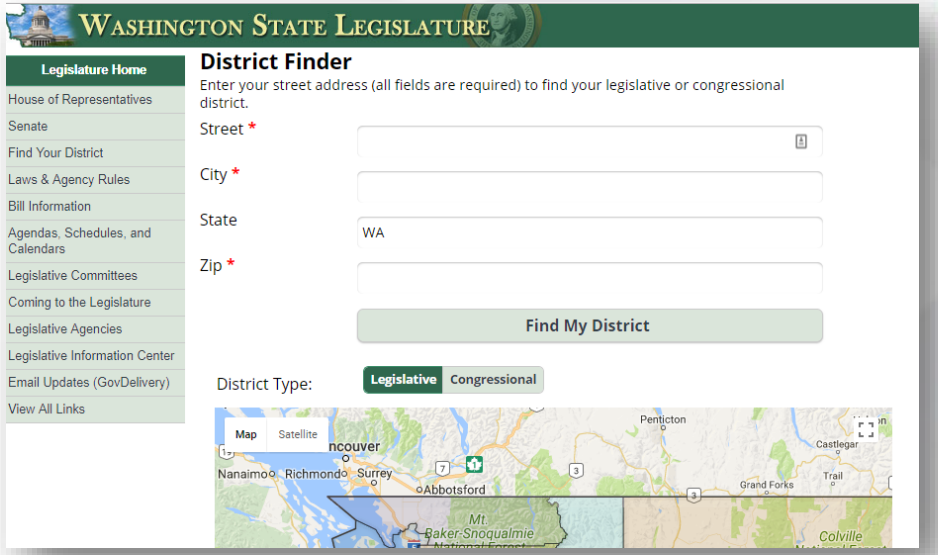


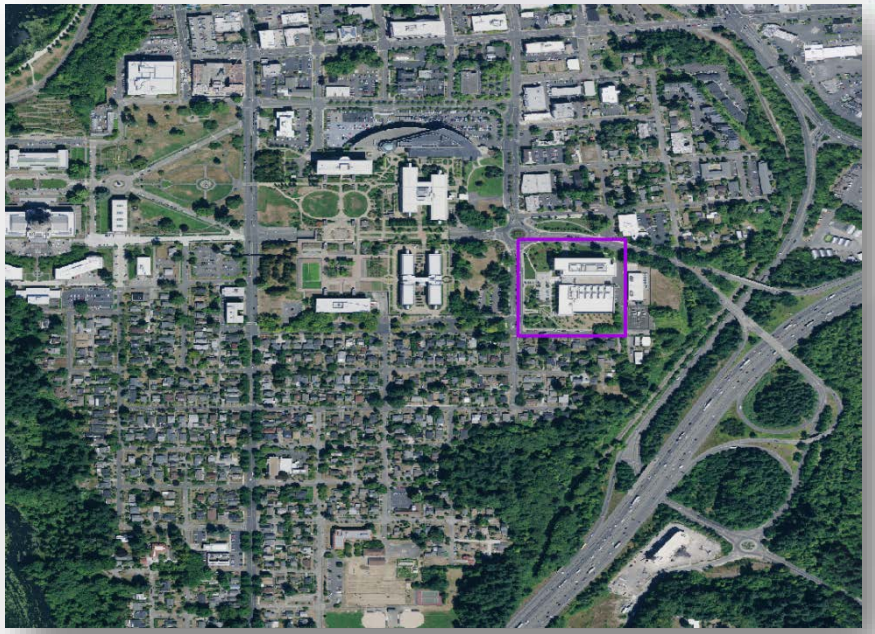
Value

- Consistent addresses helps citizens when getting services from state and county providers
- Collect once, use many times
- Save money by not using commercial products
- National participation/ compliance with addressing

WAMAS Examples

- **Voting Project (Sec of State)**
  - Making sure ballots get to citizens
- **Who is my representative? (Leg Services)**
  - Finding correct legislative districts on website http://app.leg.wa.gov/districtfinder/
- **Census & Redistricting (OFM and Sec of State)**
  - Impacts $$$ to State for 10 years





Washington Imagery Acquisition

- Purchase high resolution statewide imagery
- Critical data, unstable funding
- GIT has identified this as needing more stable funding
- OCIO - Geospatial Program Office

Value

- Seamless imagery between state and county users
- Same base information to create streams, locate buildings (WAMAS data) and respond to emergencies
- Many rural counties can't afford it by themselves

Washington Geospatial Open Data Portal

- Share GIS (Locational Intelligence) data with each other and with the public
- http://geo.wa.gov/

Value

- Emphasizes the host once, use often concept
- Standardized way to share data
- Counties also want to participate

DFW's Strategic Planning

- Data, not drama
- Application usage
- View data from geographic perspective

Value

- Use new tools available to analyze information
- Targeted investments in locational intelligence

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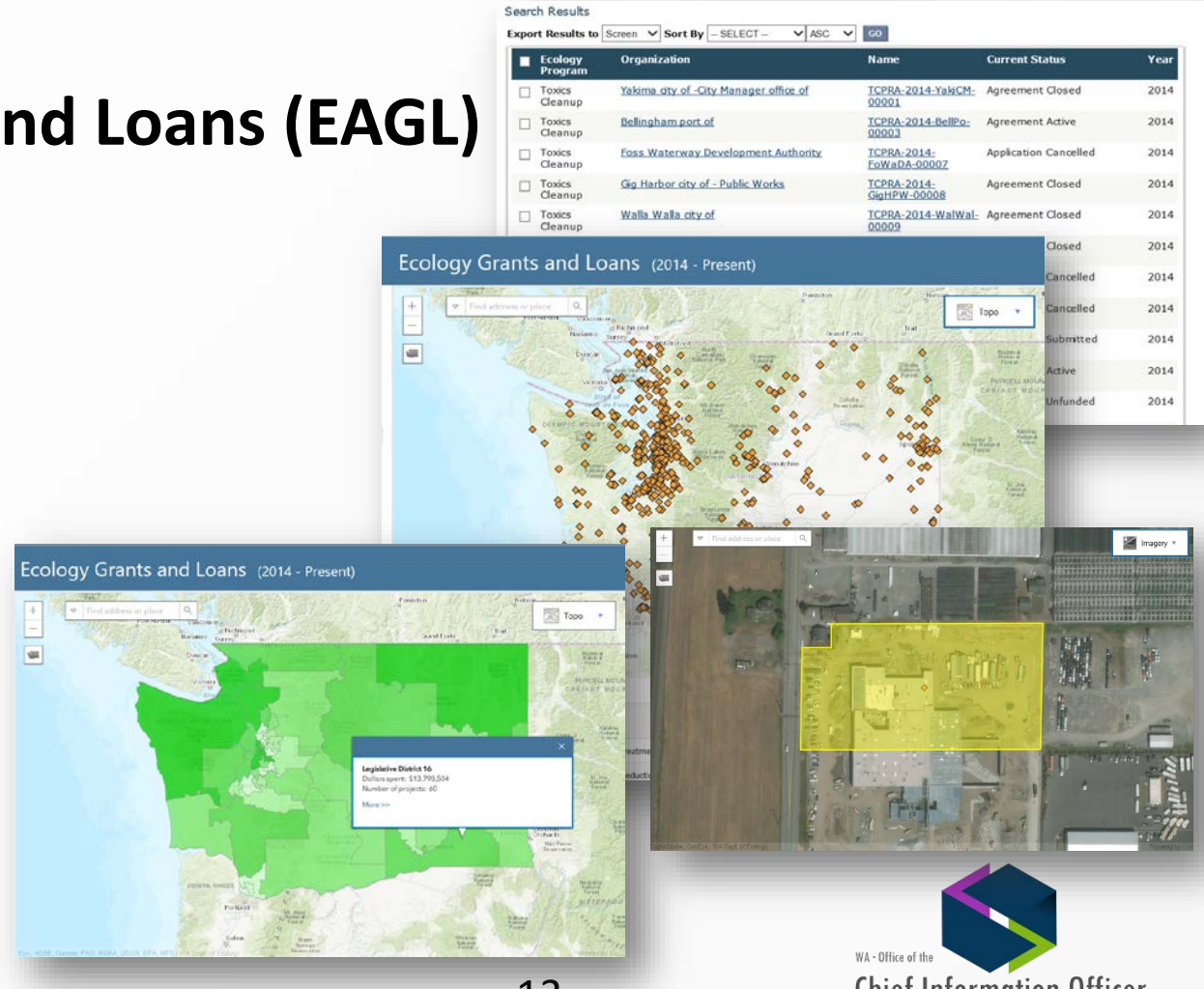
Ecology's Administration of Grants and Loans (EAGL)

- Integration with existing tabular information

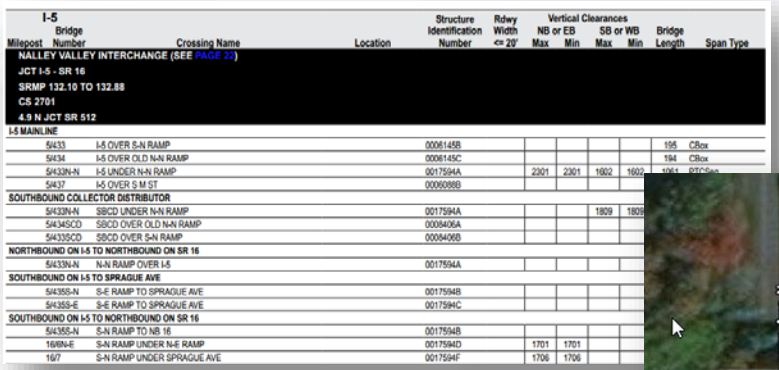
Value

- Adding geographic context to existing data
- Analyze for trends, equity and patterns
- Locational intelligence

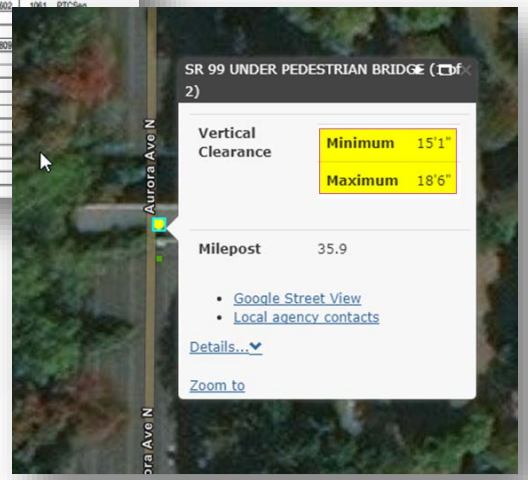


WSDOT's Bridge Vertical Clearance Trip Planner

- Skagit River Bridge Strike – May 2013
- Needed more detailed information
- Comply with NTSB recommendation to provide a solution to the public

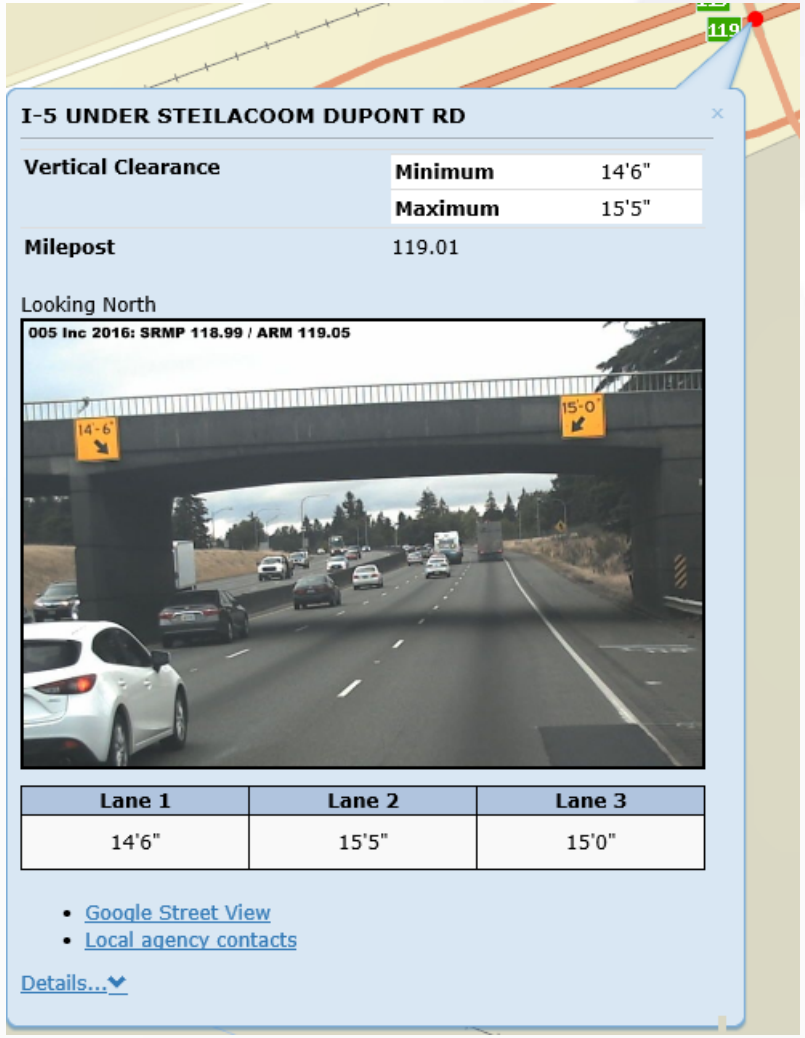


I-5 Milepost	Bridge Number	Crossing Name	Location	Structure Identification Number	Rdwy Width <= 20'	Vertical Clearances NB or EB Max	NB or EB Min	SB or WB Max	SB or WB Min	Bridge Length	Span Type
NALLEY VALLEY INTERCHANGE (SEE PAGE 22)											
JCT I-5 - SR 16											
SRMP 132.10 TO 132.88											
CS 2701											
4.9 N JCT SR 512											
I-5 MAINLINE											
	5/433	I-5 OVER S-N RAMP		0006145B						195	CBox
	5/434	I-5 OVER OLD N-N RAMP		0006145C						194	CBox
	5/433N-N	I-5 UNDER N-N RAMP		0017594A		2301	2301	1602	1609	1061	RTCSeg
	5/437	I-5 OVER S M ST		00060888							
SOUTHBOUND COLLECTOR DISTRIBUTOR											
	5/433N-N	SBCD UNDER N-N RAMP		0017594A				1809	1809		
	5/434SCD	SBCD OVER OLD N-N RAMP		0008406A							
	5/433SCD	SBCD OVER S-N RAMP		00084068							
NORTHBOUND ON I-5 TO NORTHBOUND ON SR 16											
	5/433N-N	N-N RAMP OVER I-5		0017594A							
SOUTHBOUND ON I-5 TO SPRAGUE AVE											
	5/435S-N	S-E RAMP TO SPRAGUE AVE		0017594B							
	5/435S-E	S-E RAMP TO SPRAGUE AVE		0017594C							
SOUTHBOUND ON I-5 TO NORTHBOUND ON SR 16											
	5/435S-N	S-N RAMP TO NB 16		0017594B							
	16/6N-E	S-N RAMP UNDER N-E RAMP		0017594D		1701	1701				
	16/7	S-N RAMP UNDER SPRAGUE AVE		0017594F		1706	1706				



Value

- Mobile application
- Simplify access to detailed information
- Planning and decision making to improve safety and commerce
- Overall usage has grown from 900/month in January 2016 to 2,000 in 2017



The Future

How does including a geographic perspective help solve complex state problems?
GIS is often underutilized in problem solving, how do we maximize the state's investment?

What's Next?

- Sustainable Program Funding
- Statewide Strategic Planning and Priorities
- Align with Budgets and Business Needs
- Continue to Push the Boundaries

Contact: joanne.markert@ocio.wa.gov or 360.407.8691

Radio Update

Information / Discussion

State Interoperability Executive Committee (SIEC)

Information / Discussion

Alex Alben – SIEC Chair

Michael Marusich – Staff to the SIEC

SIEC Charter

Membership and committee responsibilities defined in RCW 43.105.331.

“Develop policies and make recommendations [regarding]. . . The interoperability of systems, taking into account both existing and future systems and technologies.”

Key SIEC Responsibilities

Recommend Policy & Standard

Coordinate state licensed radio frequencies

Coordinate purchasing of radio equipment

Promote interoperability

Impacting

- Emergency communications
- First Net/One Net
- Groups in state not served by existing land mobile radio (LMR) network
- Spectrum allocation
- Wireless

Current SIEC Activities

Developing policy & underlying governance for approvals and reuse

Forming shared radio working group

Forming oversight on federal/state mandates

Refine and expand role of Statewide Interoperability Coordinator (SWIC)

Develop Tactical Interoperable Communications Field Operations Guide

SIEC – Activities

- RF Communications Policy and Standards Development
- Review and oversight of federally mandated and state agency originated radio regulatory compliance
- WSP Statewide Narrowband Project
- WSDOT / WADOC Statewide 800 MHz Rebanding Project (federal mandate)
- WSDOT 700 MHz Radio Procurement Project (agency initiated)

Working with:

- Recently appointed a Deputy SWIC – Michael Marusich, to assist Bob Schwent (SWIC) in the administration of SWIC responsibilities and reporting within Washington.
- Department of Homeland Security (DHS) / Office of Emergency Communications (OEC) - Interoperable Communications Technical Assistance Program (ICTAP)
- DHS/OEC to develop a certification process and repository for those completing COMU training programs in Washington.

Future

- Achieve savings through interoperability
- Educate members on new technologies
- Do better spectrum management

WA Department of Transportation Land and Mobile Radio System Replacement Project

Information / Discussion

John Nesbit – Project Executive Sponsor

Tim McDowell – Project Manager

ITS Communications & Wireless LMR System Replacement

TSB Update

Tim McDowell
ITS Communications Manager

John Nisbet
Director Traffic Operations

March 13, 2018

Roger Millar, Secretary of Transportation

Keith Metcalf, Deputy Secretary of Transportation

WSDOT Land Mobile Radio System

- Overview
  - WSDOT owns and operates a statewide Land Mobile Radio (LMR) system. The system is over 20 years old and is no longer supported by the manufacturer.
  - RCW 43.105.331 requires the replacement system to meet all the interoperable requirements of the P25 standards.
  - LMR Project was included in the Connecting Washington new transportation revenue package.
  - Section 307, of the 2017-19 Transportation Budget, requires quarterly reporting to the Technology Services Board and requires increased interoperability, reuse and leverage existing infrastructure and meet multiple agency needs.
  - Written reports are to be provided monthly to the TSB unless the board requires or WSDOT requests a presentation.

WSDOT Land Mobile Radio System

- Overview – Current System
  - Provides day to day and emergency communications
  - Supports maintenance, traffic incident management, engineering and ferry operations
  - 136 remote radio sites statewide
  - Over 3500 mobile and portables
  - Current system partners: WADOC transport and WAEMD (campus communications)

- Overview – New System
  - Provides day to day and emergency communications, redundancy and resiliency
  - Supports maintenance, traffic incident management, engineering and ferry operations
  - 140 remote radio sites statewide
  - Over 3500 mobile and portables
  - New system partners: WADOC transport and EOC operations, WAEMD statewide operation, and Airlift Northwest

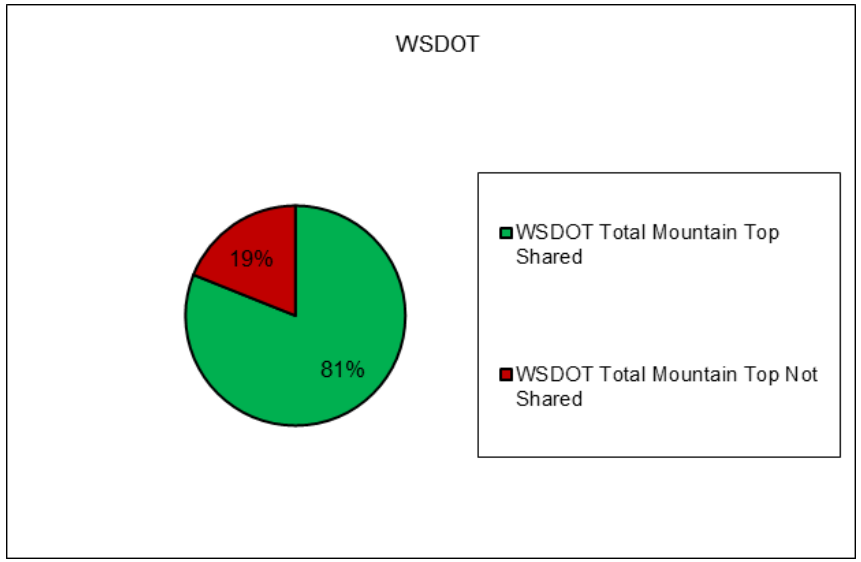
Schedule, Budget and Milestones

- Project implementation will take approximately three years to complete.
- Current estimated budget for project completion is $37M.
- Will use a lessons learned approach and deployed in two WSDOT operational regional each year. This approach allows the project to apply lessons learned to the next region's design.
- Each region will have a Functional Acceptance Test Plan (FATP) and Coverage Acceptance Test Plan (CATP). These documents will include the metrics for regional acceptance.
- Draft schedule and milestones provided. Schedule will be updated after System Design Review.

Project Schedule and Budget				
2015-17 Biennium:				
FCC Applications	RPC Approval Letter	2015-17 Biennium	Oct-17	$600,000
2017-19 Biennium:				
Procurement	Contract Signed	Underway – Feb 2018		$600,000
Design	System Design Review Acceptance	Mar 2018 - May 2018		$1,700,000
Implementation - Pilot	Pilot – FATP Acceptance	May 2018 – Oct 2018		$4,900,000
Implementation - Pilot	Pilot – CATP Acceptance	May 2018 – Oct 2018		
Implementation - System	Final System Acceptance - Go Live	Nov 2018 – Dec 2021		$29,235,317
Total				$37,035,317

Gate	Milestones	Ends	Deliverable (Artifact)
Design	System Design Review	3/23/18	WSDOT approved system design review document
Design	System Design Acceptance	4/27/18	FATP and CATP updated and approved.
Pilot 1	Pilot 1 Design Review	5/7/18	WSDOT approved detailed design review document
Pilot 1	Pilot 1 Acceptance	12/15/18	FATP and CATP passing results document
Pilot 2	Pilot 2 Design Review	5/14/18	WSDOT approved detailed design review document
Pilot 2	Pilot 2 Acceptance	1/8/19	FATP and CATP passing results document
Implementation	NW Region Design Review	12/22/18	WSDOT approved detailed design review document
Implementation	NW Acceptance	7/19/19	FATP and CATP passing results document
Implementation	NC Region Design Review	1/13/19	WSDOT approved detailed design review document
Implementation	NC Acceptance	7/27/19	FATP and CATP passing results document
Implementation	SC Region Design Review	4/29/19	WSDOT approved detailed design review document
Implementation	SC Acceptance	3/20/20	FATP and CATP passing results document
Implementation	Oly Region Design Review	5/7/19	WSDOT approved detailed design review document
Implementation	Oly Acceptance	6/12/20	FATP and CATP passing results document
Implementation	SW Region Design Review	6/5/20	WSDOT approved detailed design review document
Implementation	SW Acceptance	6/28/21	FATP and CATP passing results document
Implementation	East Region Design Review	5/12/20	WSDOT approved detailed design review document
Implementation	East Acceptance	6/18/21	FATP and CATP passing results document
Implementation	Statewide System Final Acceptance	12/30/21	Steering Committee approved Go Live criteria document

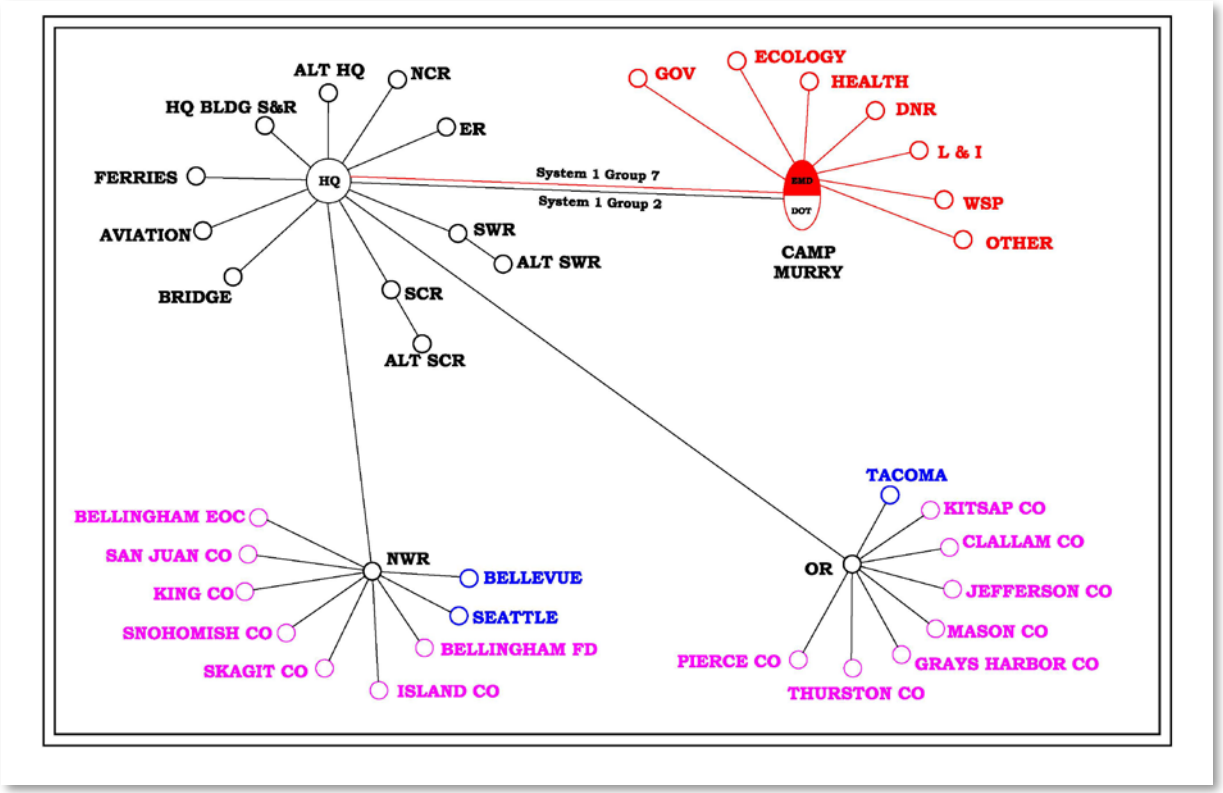
Share, Risks and Measurements

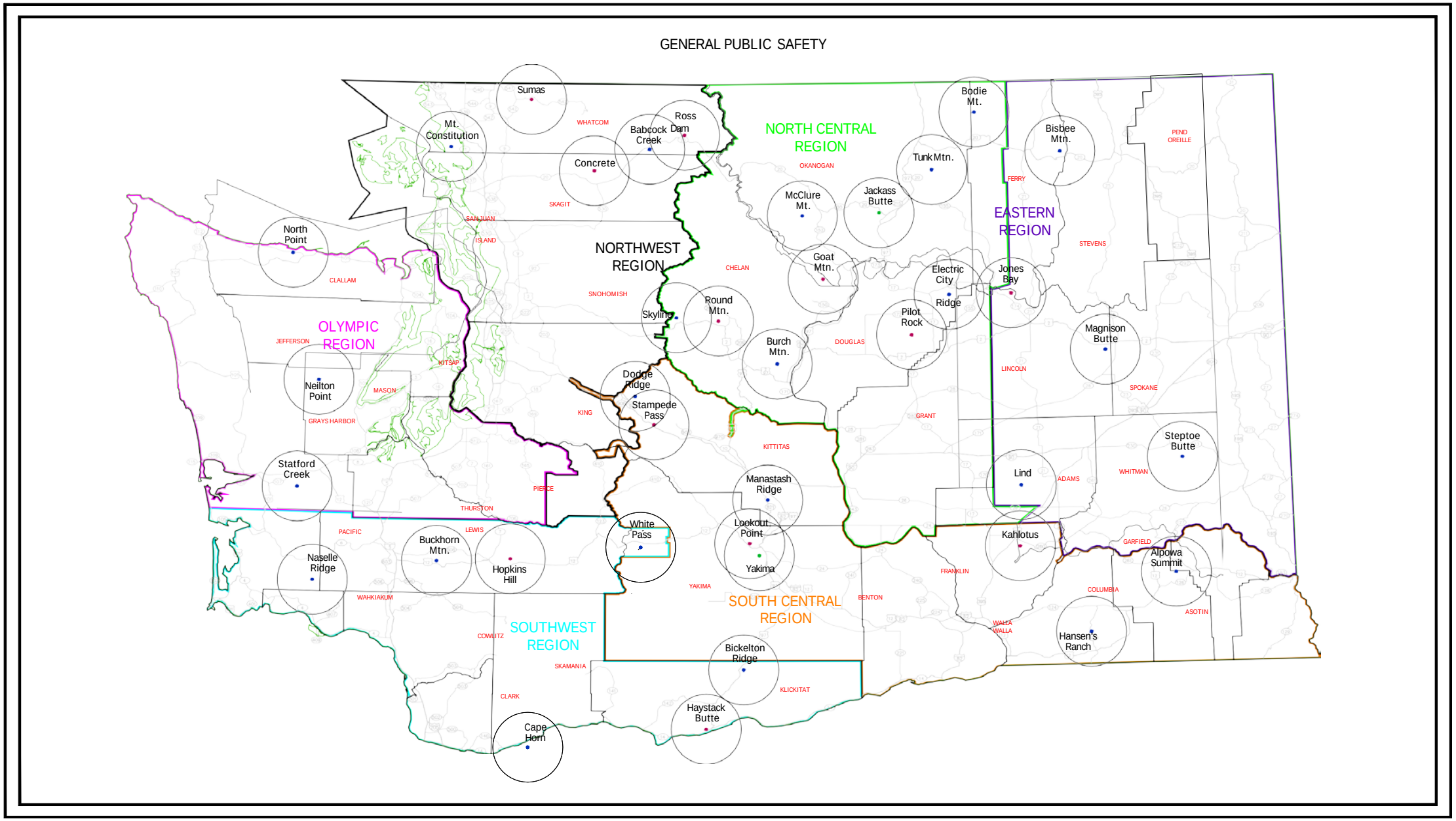


- Share, reuse and leverage existing infrastructure
  - WSDOT shares over 80% of the radio site locations with other State and Local agencies
  - New system reuses existing, towers, buildings, generators, microwave connections and other support equipment.
  - None of the existing LMR system can be reused
- Key Risks
  - Weather – Flexibility in the schedule
  - Commercial Leases – Start negotiations early
  - Staff Awareness – Use same tools in similar successful projects.
  - Project Duration and Scope Creep – RFP was written to provide a lessons learned approach, at final acceptance all regions will be normalized.
- System Performance Measurements
  - Provide 95% coverage per operational region and statewide, using existing sites, measured data, neighboring regions' sites.
  - Establish a Digital Audio Quality (DAQ) of 3.4.

Interoperability

- Increase State Agency Emergency Network (STAEN) to statewide operation – Improve COOP planning
- Continue to maintain Puget Sound EOC talk group, County and City capability to monitor WSDOT EOC Traffic and communicate with State EOC.
- Maintain DOC Bus traffic Statewide, Simplified code plug, single zone operation.
- Add DOC EOC talk group statewide
  - Mutual Benefit agreement
- Add Airlift Northwest talk group statewide
  - Shared or exchange of services.
- New system will have the capability of three ISSI connections.
- Provide WSP with use of WSDOT VHF licensed spectrum no longer needed, seven letters of authorization.
- Committed to 39 interoperable repeaters statewide, per Region 43 spectrum use.




GENERAL PUBLIC SAFETY
Sumas
Mt. Constitution
Babcock Creek
Ross Dam
Concrete
Bodie Mt.
Bisbee Mtn.
Tunk Mtn.
McClure Mt.
Jackass Butte
Goat Mtn.
Electric City
Ridge
Jones Bay
Pilot Rock
Magnison Butte
Round Mtn.
Skyline
Burch Mtn.
Dodge Ridge
Stampede Pass
North Point
Neilton Point
Statford Creek
Manastash Ridge
Lookout Point
Yakima
White Pass
Buckhorn Mtn.
Hopkins Hill
Naselle Ridge
Kahlotus
Lind
Steptoe Butte
Alpowa Summit
Hansen's Ranch
Bickelton Ridge
Haystack Butte
Cape Horn
NORTH CENTRAL REGION
EASTERN REGION
NORTHWEST REGION
OLYMPIC REGION
SOUTH CENTRAL REGION
SOUTHWEST REGION
WHATCOM
SKAGIT
SAN JUAN
ISLAND
CLALLAM
JEFFERSON
KITSAP
MASON
GRAYS HARBOR
PACIFIC
LEWIS
THURSTON
WAHKIAKUM
COWLITZ
CLARK
SKAMANIA
KING
SNOHOMISH
CHELAN
DOUGLAS
KITTITAS
YAKIMA
BENTON
FRANKLIN
GRANT
OKANOGAN
FERRY
PEND OREILLE
STEVENS
LINCOLN
SPOKANE
WHITMAN
ADAMS
GARFIELD
COLUMBIA
WALLA WALLA
ASOTIN
KLICKITAT
PIERCE

Questions?

Tim McDowell
Washington State Department of Transportation
ITS Communications & Wireless Technology
mcdowet@wsdot.wa.gov
(360)705-7028

FirstNet/OneNet Update

Information

FirstNet Update

September 27, 2017	Governor Inslee announces Joint Washington & Oregon call for proposals to operate public safety broadband network
October 16, 2017	RFP is released
November 30, 2017	RFP closes with 2 proposals •Verizon •Rivada
December 26, 2017	Govs Inslee & Brown jointly announce opt-in decision

FirstNet State Plan for Washington

- 50 new sites
- 4 = Satellite Cell on Light Trucks (SatCOLTs)
- 4 = Emergency Communication Portables (ECPs)
- Cache of deployables at AT&Ts Disaster Recovery Center
- Quarterly meetings with Washington OneNet

Washington OneNet:

- Funding by the NTIA's State and Local Implementation Grant Program (SLIGP) 1.0 expired February 28, 2018
- Awaiting Award of SLIGP 2.0 Grant (expected March 15. Retroactive to March 1)
  - 2 year grant
- National leader in successfully engaging Washington's 29 federally recognized tribes in FirstNet
- Award winning (17 awards) video outreach program:
  - *What is FirstNet?*
  - *After Oso*
  - *Shots Fired*
  - *View online at http://onenet.wa.gov/videos/*
- Stakeholders engaged
  - 40,000+/- meetings/conferences/events
  - 945,000+/- video, social media, television, email touch campaigns

Washington OneNet: Action Plan

- Finalize rates and service plan negotiations with Dept. of Enterprise Services and FirstNet Built by AT&T.
- Prioritize FirstNet Built by AT&T Optional Services for master contracting with NASPO ValuePoint and Dept. of Enterprise Services.
- Facilitate communication strategy for wireless broadband for wildfire season (Stevens County & Spokane Tribe Broadband Action Team / Prepositioned Fire Camps)
- Schedule Quarterly Meeting with FirstNet Build by AT&T
- Formalize national organization of State Points of Contacts (SPOC)
- Identify current wireless broadband coverage gaps

Thank You

Shelley.Westall@OCIO.wa.gov

OneNet.wa.gov

360-556-2545

360-556-2545

ONENET

A PUBLIC SAFETY WIRELESS TECHNOLOGY PROGRAM

Privacy Office Updates

Discussion

Privacy Legislative Update

- HB 2278 would designate privacy officers for each agency
- Net neutrality– Governor Inslee Signed 2282 on March 5, 2018

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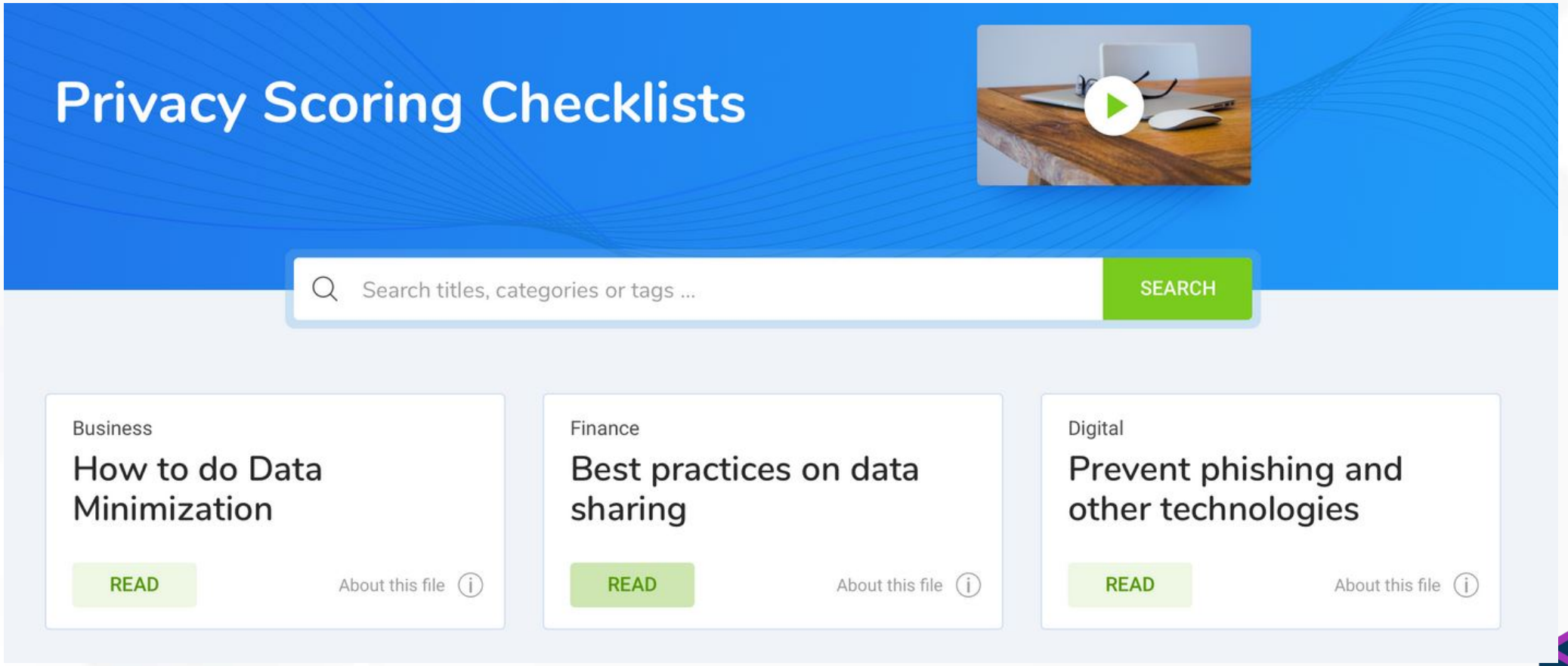
Privacy Scoring

- New Initiative funded by Hewlett Foundation
- Designed to help with best practices + training
- Benefits state and local government

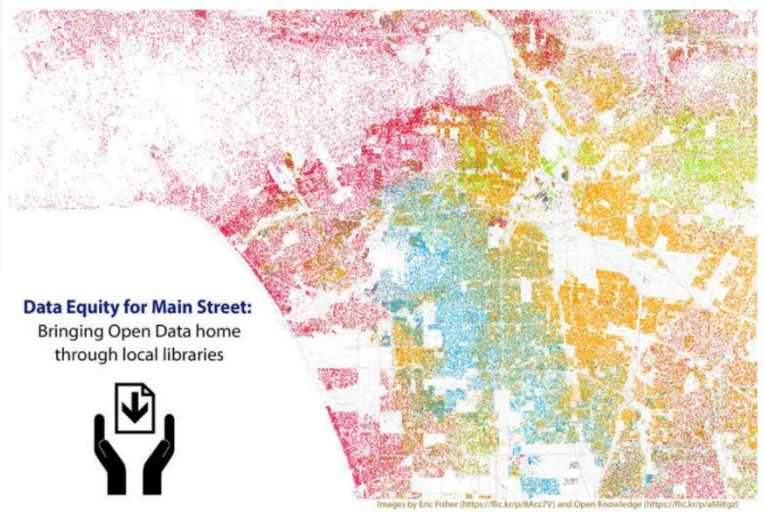


Training and Materials

- Agencies are our clients
- We need funding to do more comprehensive training
- Strategy has been to leverage grants and OCIO resources
- As data becomes more important, the need for data protection skills will become mission critical

Reaching the public

- Libraries are our best venue
  - Keeping it Private
  - So you think you've been Hacked
  - Data Equity for Main Street – open data in libraries



Privacy in the Digital Age

Wednesday
March 14
6:30 pm

Free & all welcome

Join Alex Alben, the Chief Privacy Officer of Washington State, to learn about digital privacy. As one of only five Chief Privacy Officers in the country, Alex has initiated innovative programs for enhanced privacy training and consumer education.

Anacortes Public Library
Worlds of Information and Imagination

1220 10th Street, Anacortes, WA 98221
360-293-1910
library.cityofanacortes.org

Coordinating experts and agencies

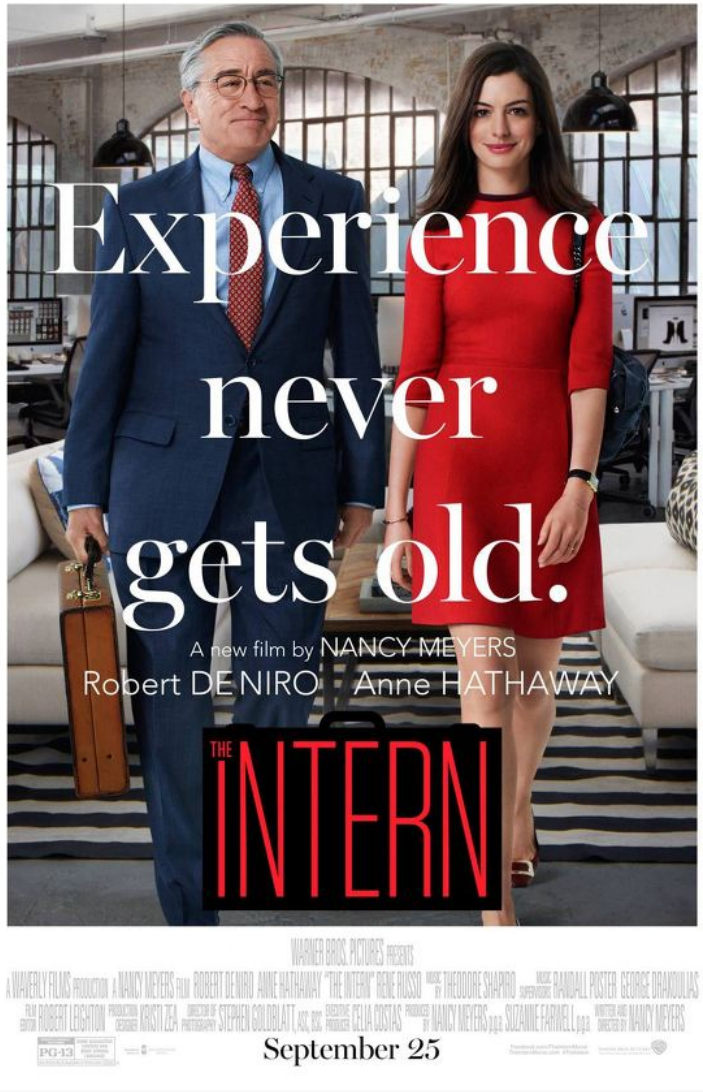
- How to start a privacy program at your agency
- On-site training
  - Quarterly class at 1500 Jefferson
  - New Employee Orientation @WaTech
- Consulting on agency open data plans
- Data Sharing Agreements group
- Asia Pacific Privacy Authorities (APPA)

Advising policy makers

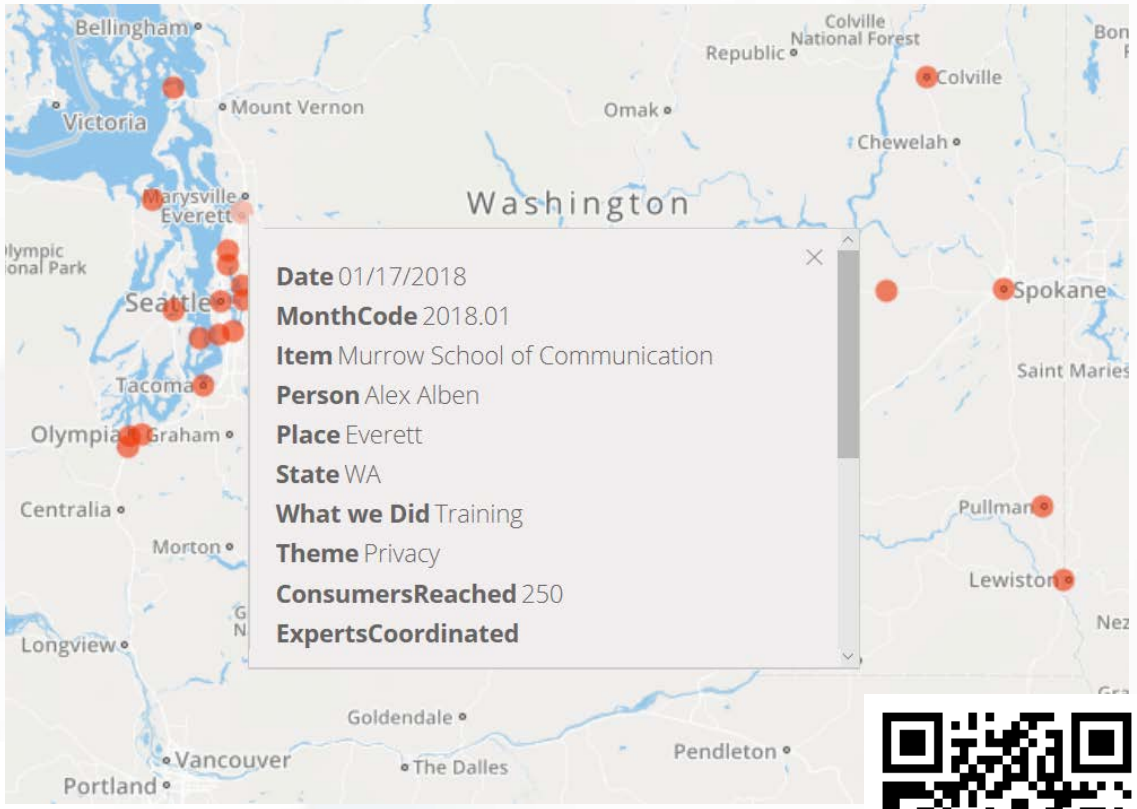
- Biometrics bills (HB1493 / HB1717)
- Agency privacy officers (HB2278)
- Data Brokers (HB1904)
- Internet service privacy (HB2200)
- Net Neutrality (HB 2282)

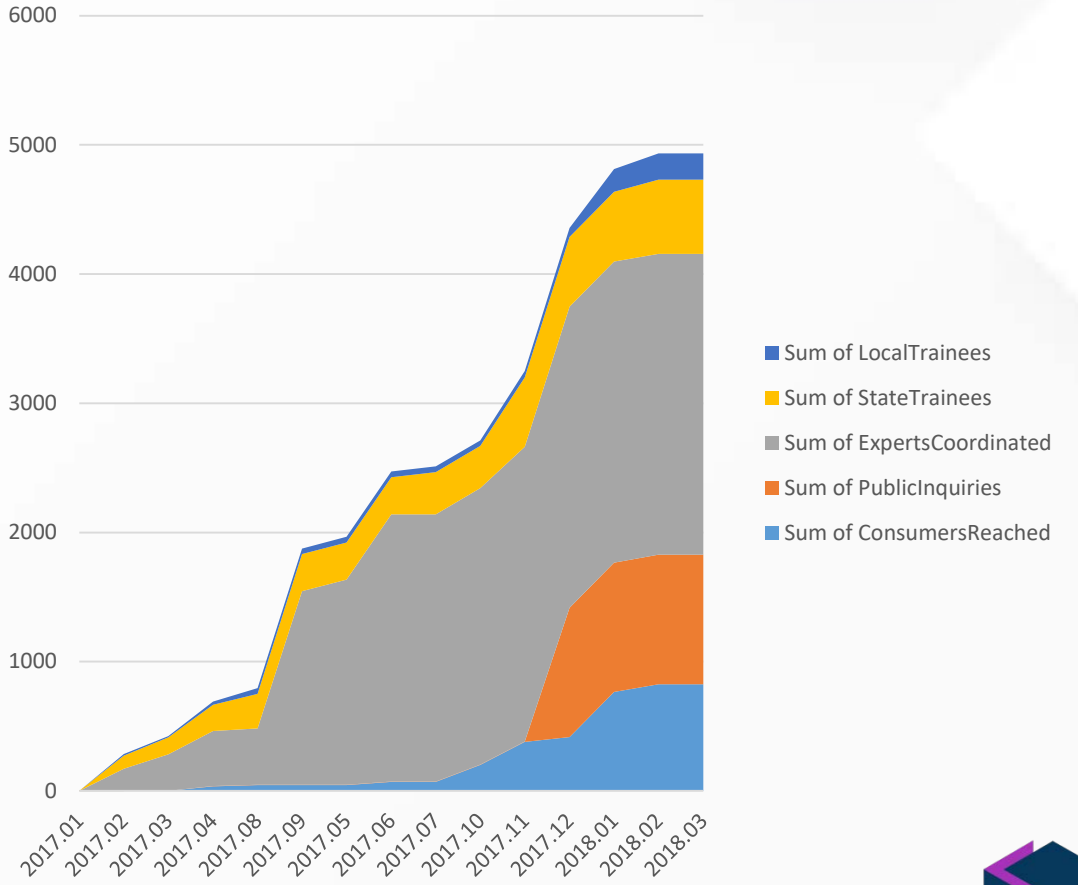
Education and Outreach

- UW Law school summer interns
  - Privacy practices assessment
  - Privacy statute database for web app
  - Start With Privacy conference
- UW iSchool externs
  - WSDOT open data study
  - DFW fishing data
  - NTIA broadband data partnership
- At least 3 of our interns are now state employees



Accountable and Transparent - Privacy





Making progress – Open Data

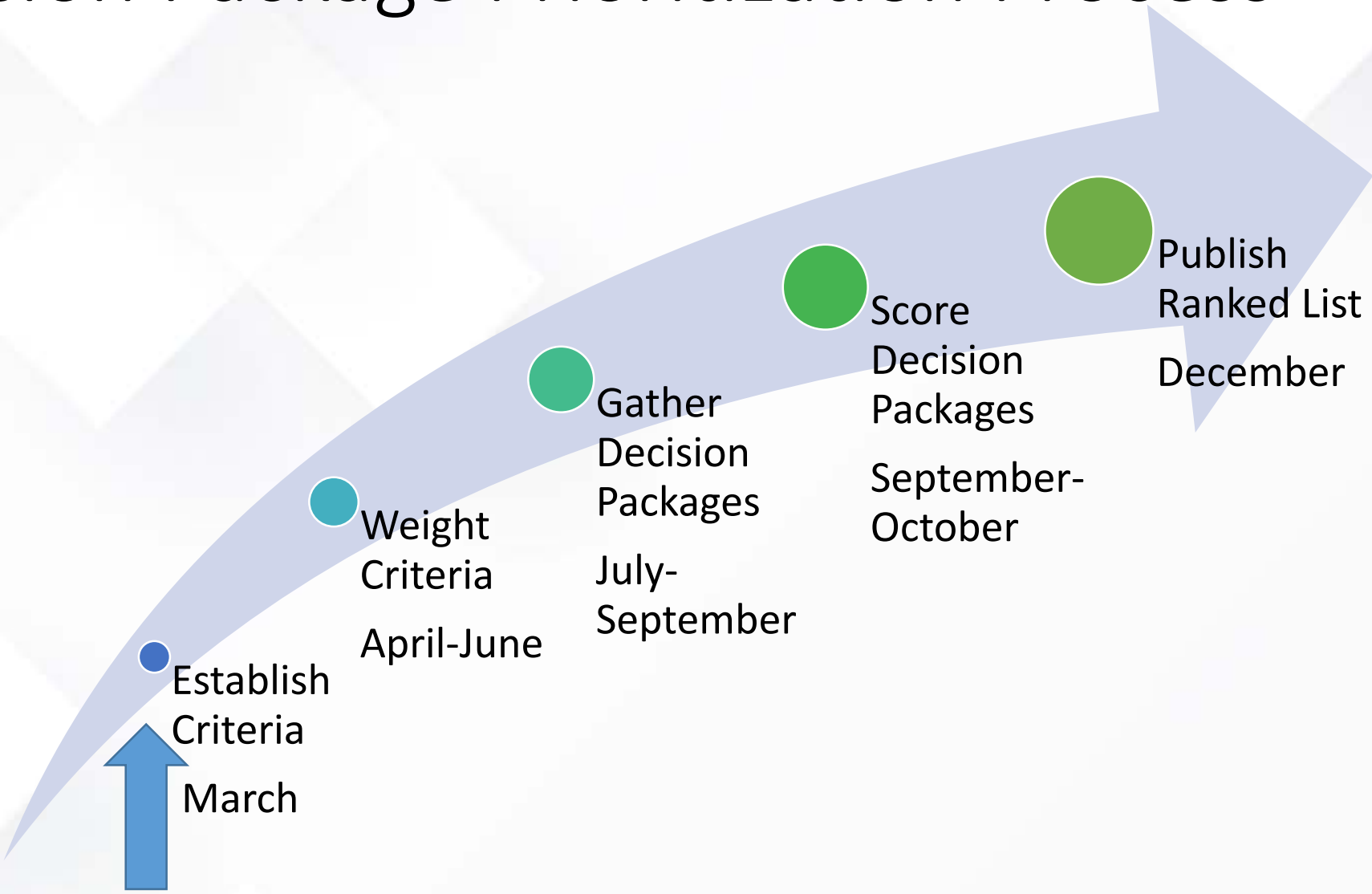
	Entity ID	Looked-up Name	Filing Name	Date of Report	Reporting Reporting Plan
1	HCA	*Washington Health Care Authority*	Health Care Authori	09/28/2017	
2	PDC	Public Disclosure Commission (PDC)		10/18/2017	
3	WSDOT	Department of Transportation (DOT)		10/31/2017	
4	DOL	Department of Licensing (DOL)		11/01/2017	
5	WSSB	State School for the Blind (SFB)		11/01/2017	

- 34 Agencies have plans
  - Top talent: PDC, HCA, DOT, DOL
- 2nd best state for Open Data (USOpenData census)
- InfoAccess strategy -- 1996
- "Within Existing Resources"

Decision Package Prioritization

Discussion

Decision Package Prioritization Process



Criteria Defined by RCW (43.105.240)

"Criteria shall include, but not be limited to:"

- Feasibility of the proposed projects
- State Strategic Plan/Enterprise Architecture Adherence
- Consistency with IT Portfolios
- Public Electronic Information Access
- Business Process Streamlining
- Gathering Business/Technical Requirements
- Services
- Duration of Investment
- Costs
- Benefits

17-19 Biennium Criteria by Grouping

Business Driven IT Management	Architecture	Technology Strategy Alignment	Security and Privacy
• Business Process Improvement • Risk Mitigation • Measurable Business Outcomes • Impact of Not Doing	• Interoperability • Reuse • Mobility	• Open Data • Modernization • Early Value Delivery	• Security • Privacy

19-21 Biennium Proposed Criteria Grouping

Ideas?

Project Oversight & TSB

Discussion

Public Comment