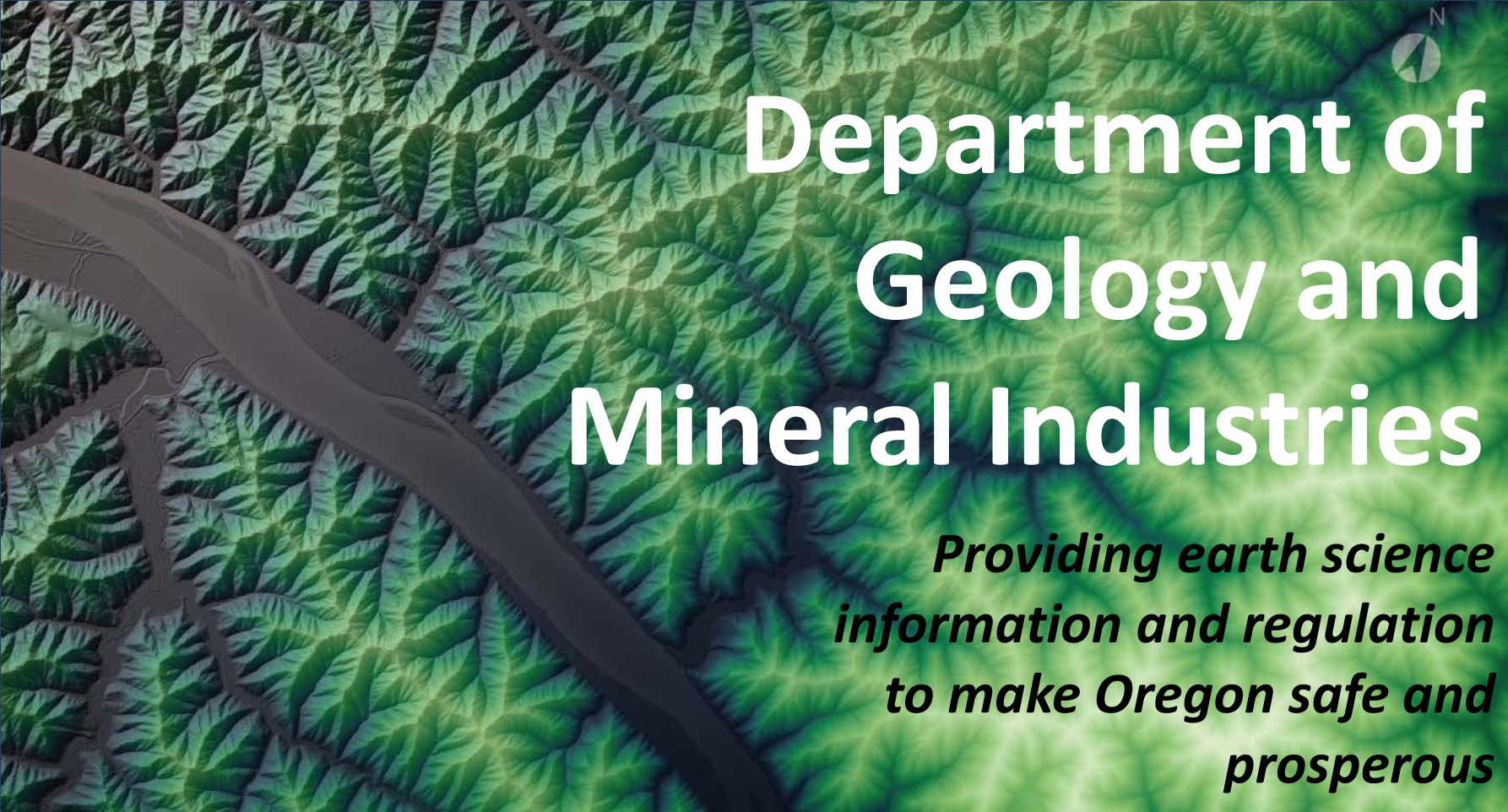Lidar image of a stream network along the Umpqua River in southwest Oregon. Image: DOGAMI

Department of Geology and Mineral Industries

Providing earth science information and regulation to make Oregon safe and prosperous

DOGAMI VISION

Through science and stewardship, DOGAMI is working toward an Oregon where:

- *People and places are prepared for natural hazards*
- *Decisions for Oregon's future always consider natural hazards*
- *Resource potential is fully understood and responsibly developed*
- *Earth science contributes to the health of our coast, rivers, forests and other ecosystems*
- *Geologic learning and discovery abound*

DOGAMI'S Value Proposition

- Outstanding Earth Science – Accessible to all Oregonians

- Natural Hazard Data – Investment in Community & Statewide Planning

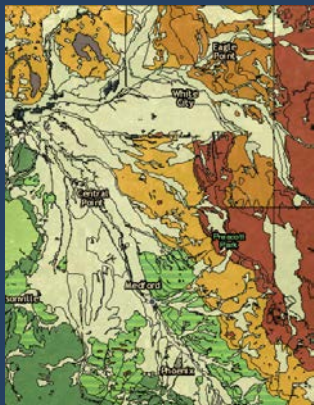- Mining Regulation – Resource Stewardship

DOGAMI STRATEGIC FRAMEWORK

Advances Mission & Vision by setting goals in 5 Focus Areas

Natural Hazards
Assessing natural hazards to help increase resilience

Earth Science
Providing geologic data & information

Resource Management
Effective, balanced regulation of resource extraction

Outreach & Education
Connecting information with Oregonians

Governance & Operations
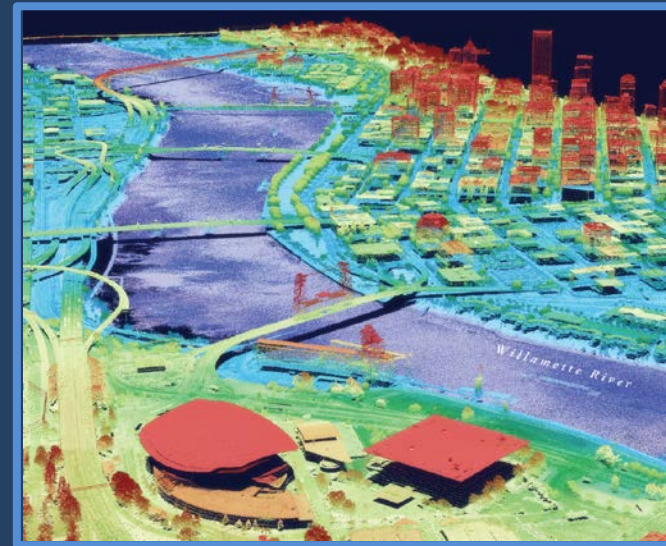*Optimizing operations to achieve our mission*

DOGAMI
Delivering Science & Stewardship

Mineral Land Regulation & Reclamation Program (MLRR)

Geologic Survey & Services Program (GS&S)

Mineral Land Regulation and Reclamation

Services:

Mineral resource permitting, site inspections, proactive management of developing issues, ensuring return of mined land to beneficial use

Clients:

Mine operators and industry, local communities, Tribal governments, state and federal agencies
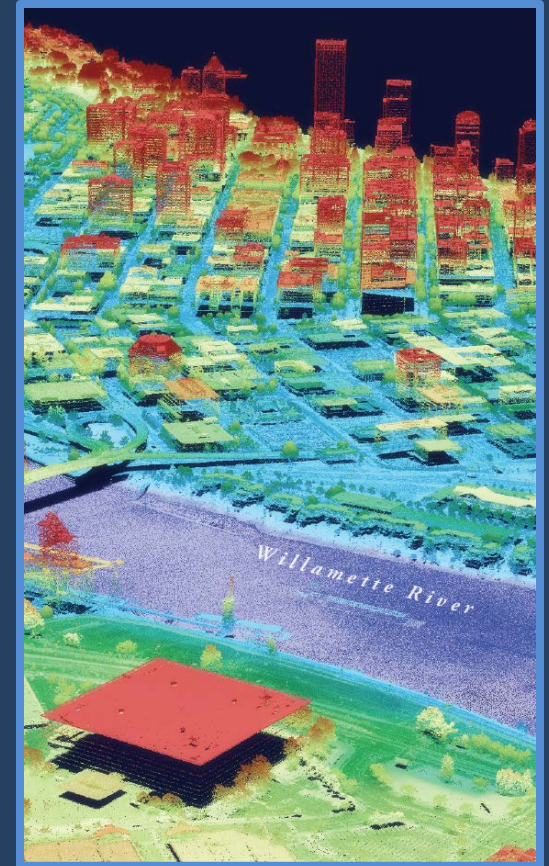
Geologic Survey & Services Program

Services:

Studying hazards, geologic mapping, acquiring lidar data, outreach & education, providing data for practical and research applications

Clients:

All Oregonians – individuals, communities, state and federal agencies, organizations, universities, businesses

DOGAMI Programs and Staffing

Agency Leadership (Admin, IT, Finance, Communications) ● 8

Mineral Lands ● 11

Geological Survey & Services ● 25

Regulation & Reclamation of Surface Mining, Exploration, Oil & Gas, Geothermal, Chemical Process Mining

Landslide Inventory & Susceptibility Mapping

Flood & Channel Migration Mapping

Earthquake & Seismic Hazards Mapping

Tsunami & Coastal Erosion Mapping
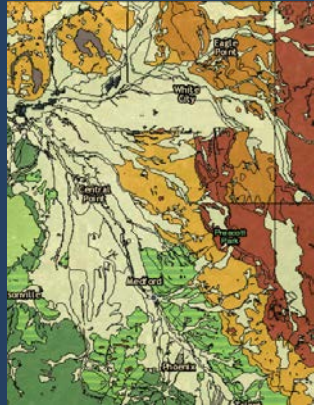
Geological & Mineral Resource Mapping

Lidar Mapping

KEY PERFORMANCE MEASURES (KPMs)

Advances Mission & Vision by setting goals in 5 Focus Areas

Natural Hazards

Earth Science

Resource Management

Outreach & Education

Governance & Operations

KPM #1: Hazard Assessment
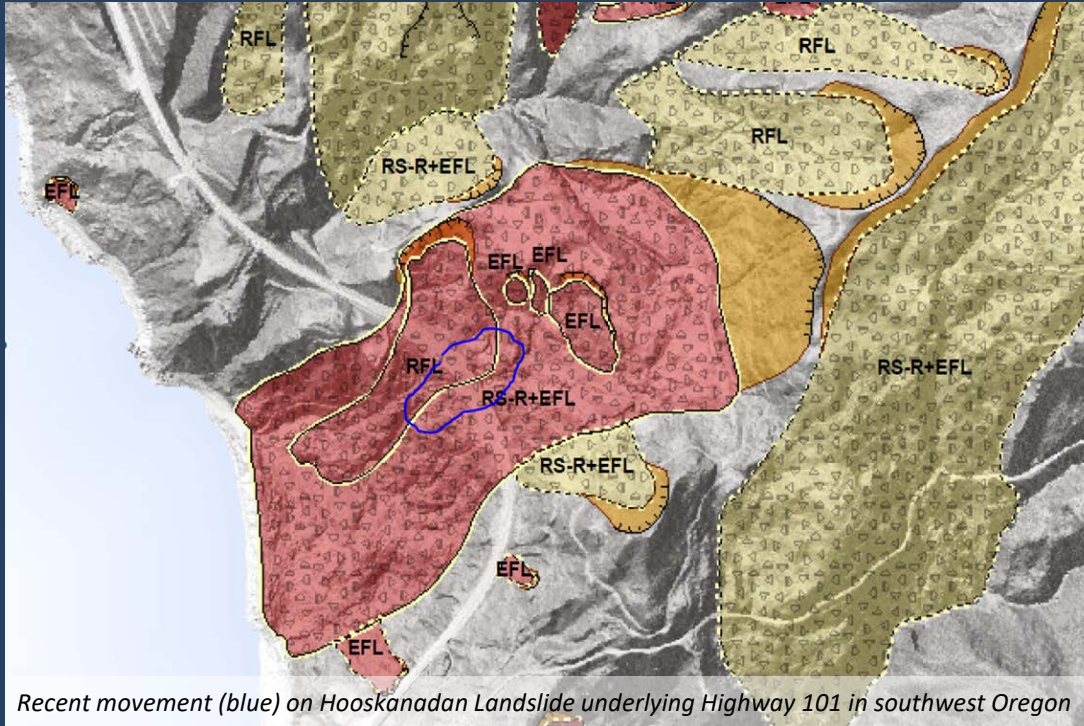
KPM #2: Geologic Mapping

KPM #4: Mine Sites Inspected

KPM #5: Customer Service

KPM #3: Lidar Coverage

KPM #6: Governance

KPM #1
Hazard & Risk Assessment Completion

Recent movement (blue) on Hooskanadan Landslide underlying Highway 101 in southwest Oregon

What's Achieved:

Oregon communities have accurate, detailed natural hazard and risk assessments to help plan for future disasters and improve their resilience
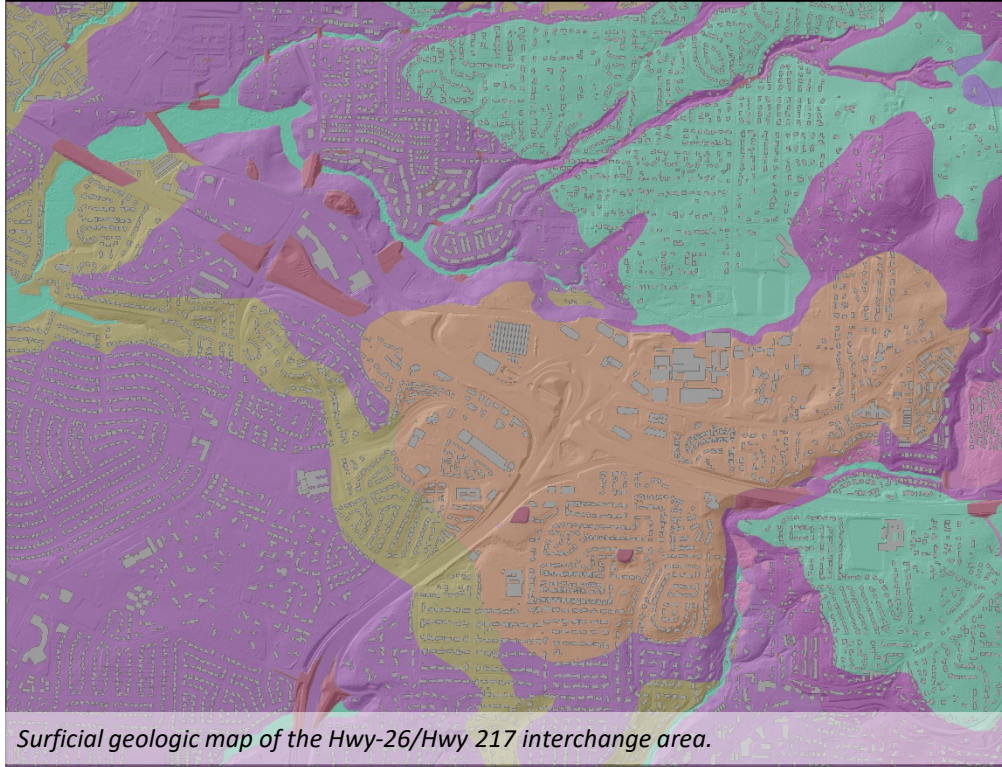
How Progress is Measured:

All Oregon cities have complete data

Baseline 2018: 42%

KPM #2
Detailed Geologic Map Completion

Surficial geologic map of the Hwy-26/Hwy 217 interchange area.

What's Achieved:

Development of geologic maps essential to understand natural hazards & resources, and mineral resource potential
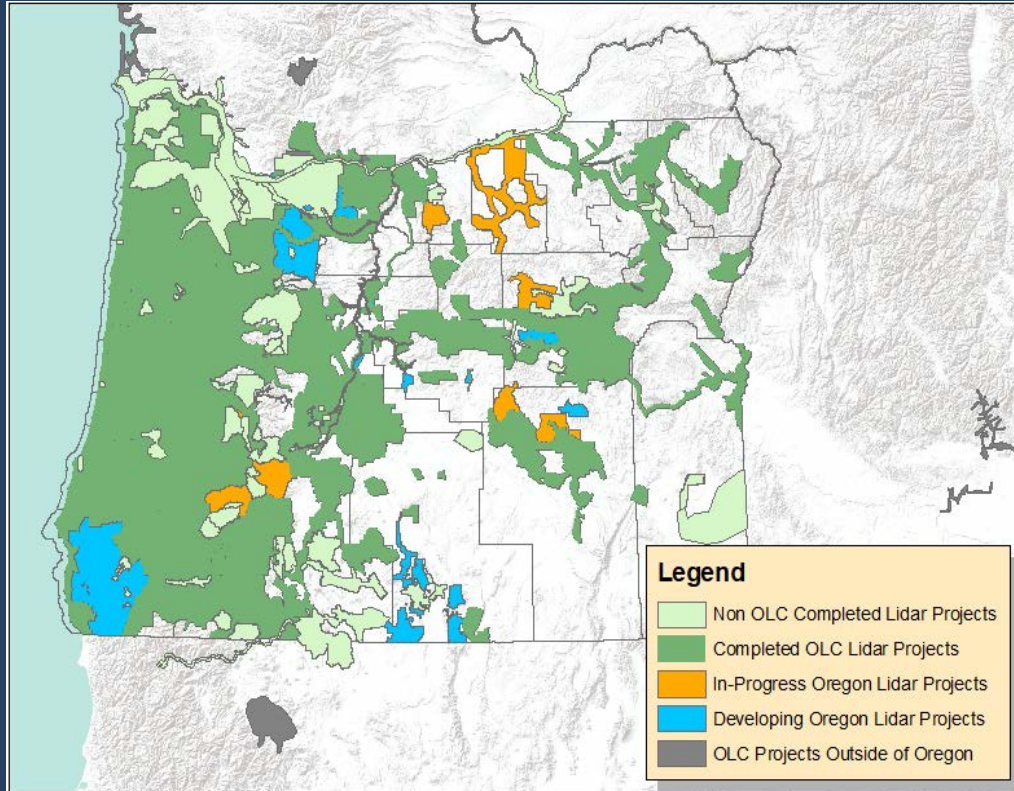
How Progress is Measured:

Percentage of inhabited area of state mapped with high resolution maps for local problem solving

Baseline 2018: 56%

KPM #3
Lidar Coverage

Legend
- Non OLC Completed Lidar Projects
- Completed OLC Lidar Projects
- In-Progress Oregon Lidar Projects
- Developing Oregon Lidar Projects
- OLC Projects Outside of Oregon

What's Achieved:

Collection of lidar topographic data used for mapping, monitoring and managing infrastructure, agriculture, natural hazards and resources

How Progress is Measured:

Percentage of state with lidar coverage

Baseline 2018: 46%

KPM #4
Permitted Sites Inspected Biennially

Stormwater control system at Graves Quarry in Molalla, Clackamas County

What's Achieved:

Proactive inspection of surface mining sites to help prevent off-site impacts or violations, and build positive working relationships

How Progress is Measured:

Percentage of permitted active sites inspected biennially

Annual Target : 50% of sites 2018 Actual: 13%

KPM #5
Customer Service

DOGAMI leading an Oregon Society of Soil Scientists field trip at Smith Rock State Park

What's Achieved:

Helps ensure services provided by DOGAMI meet customer needs and expectations, and identifies opportunities for improvement

How Progress is Measured:

Percentage of customers rating satisfaction with Agency services as very good or excellent

2018 Target : 95%
Actual: 83 %

KPM #6
Governance

DOGAMI Governing Board and staff touring Oregon State University's Hinsdale Wave Research Lab

What's Achieved:

Helps ensure Agency operations meet best practices, and identifies opportunities for improvement
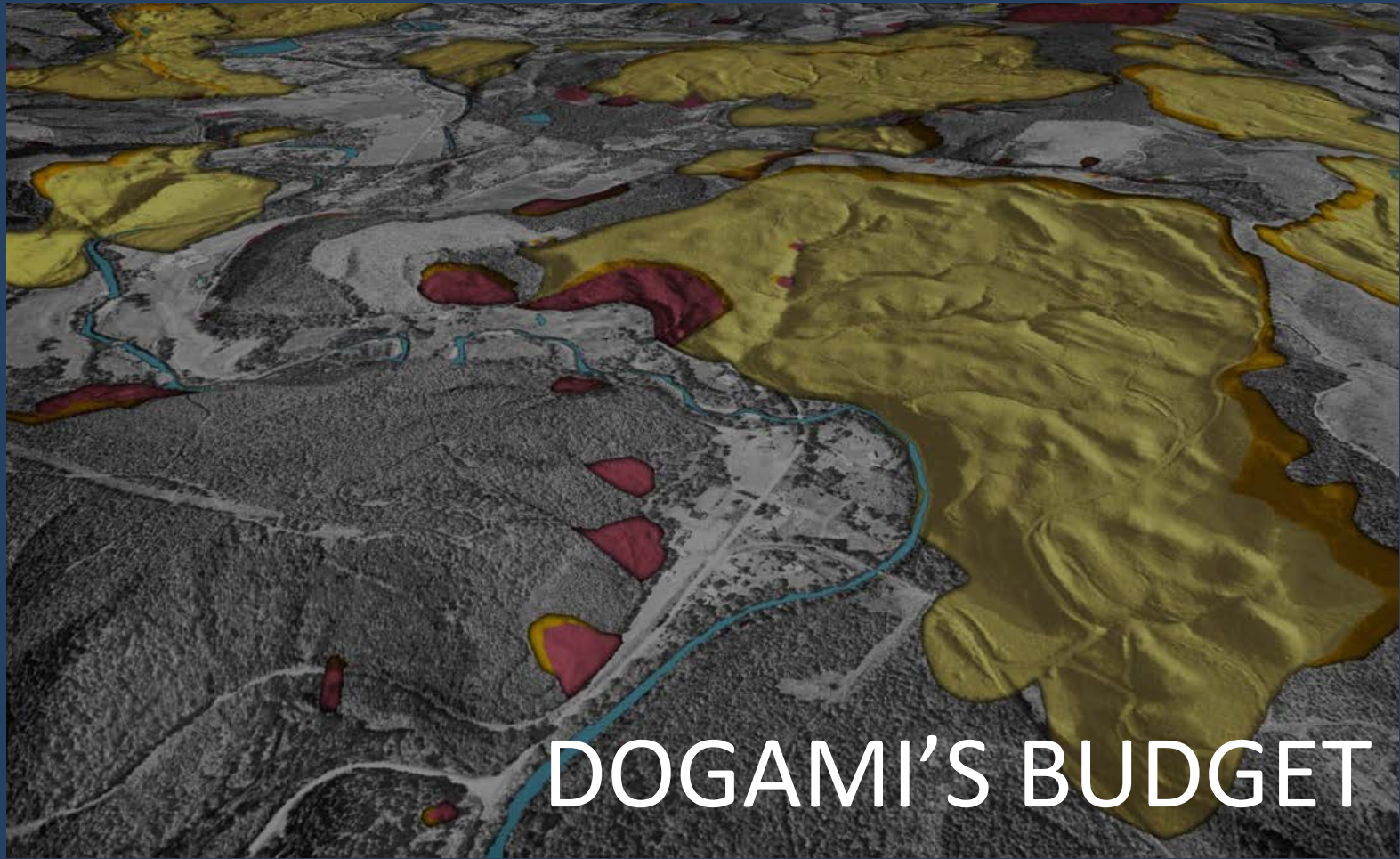
How Progress is Measured:

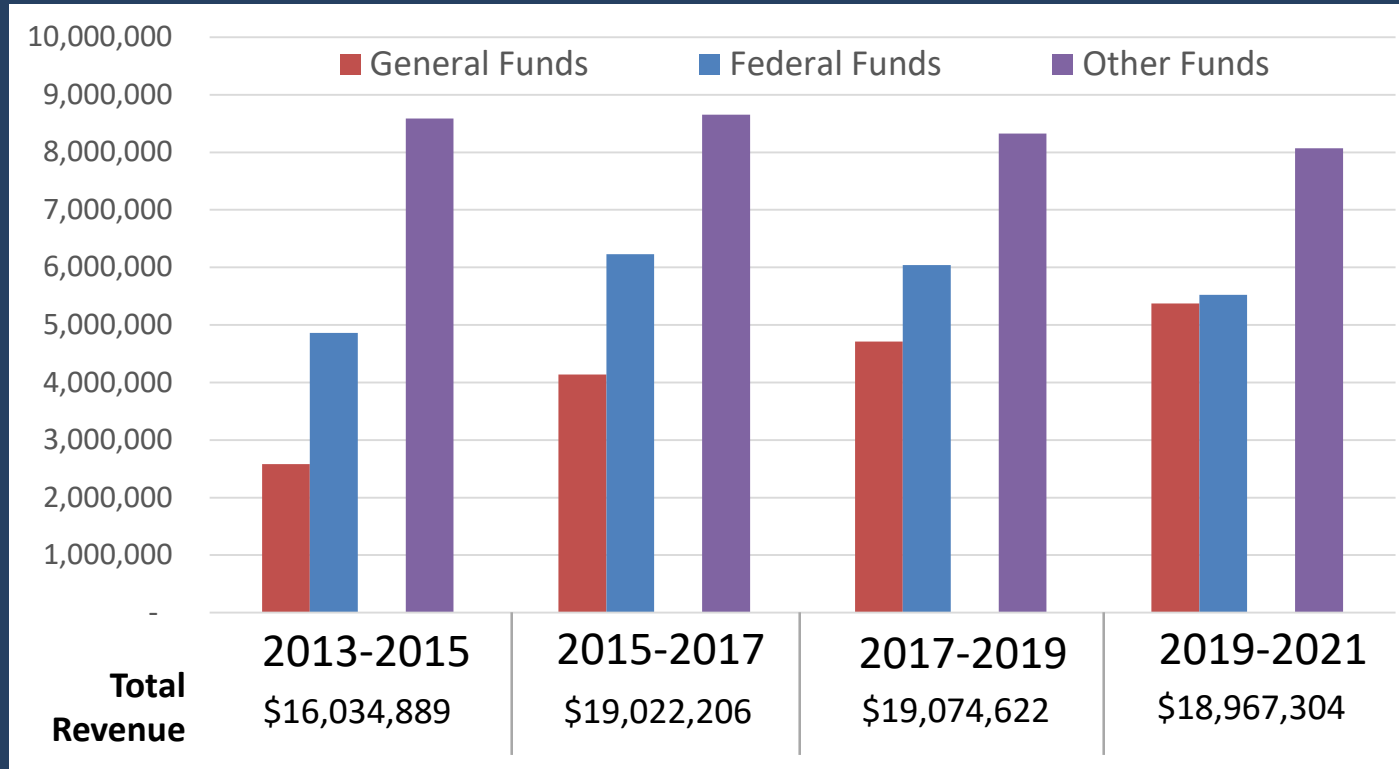Annual assessment by DOGAMI Governing Board to the set of 15 best practices

2018 Target : 100%
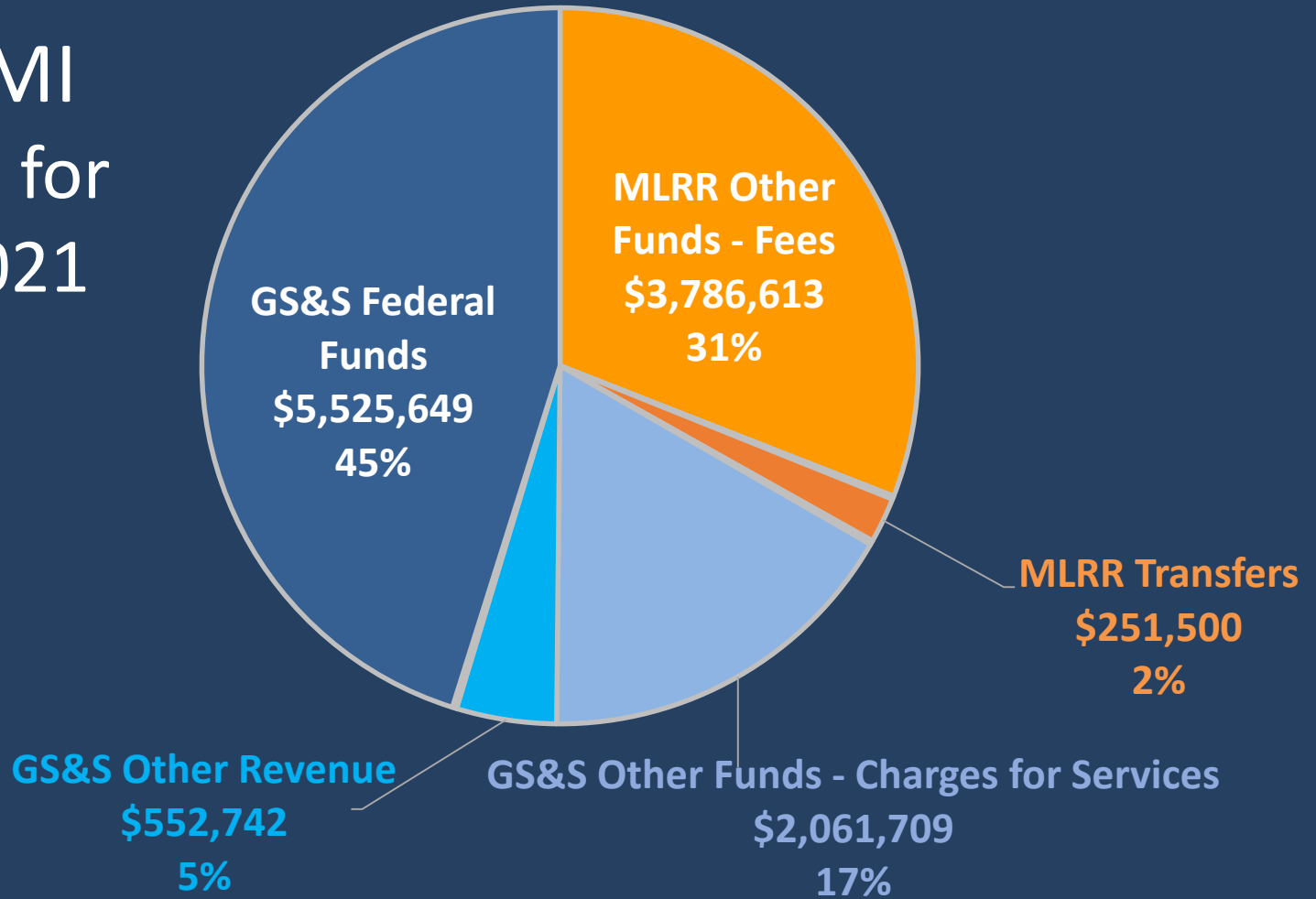**Actual: 100%**

Landslides and debris flows, Vernonia area, Columbia County. Lidar/aerial photo image: DOGAMI

DOGAMI'S BUDGET

DOGAMI Revenue per Biennium

DOGAMI Revenue for 2019-2021

GS&S Federal Funds
$5,525,649
45%

MLRR Other Funds - Fees
$3,786,613
31%

MLRR Transfers
$251,500
2%

GS&S Other Funds - Charges for Services
$2,061,709
17%

GS&S Other Revenue
$552,742
5%

DOGAMI Expenditure per Biennium
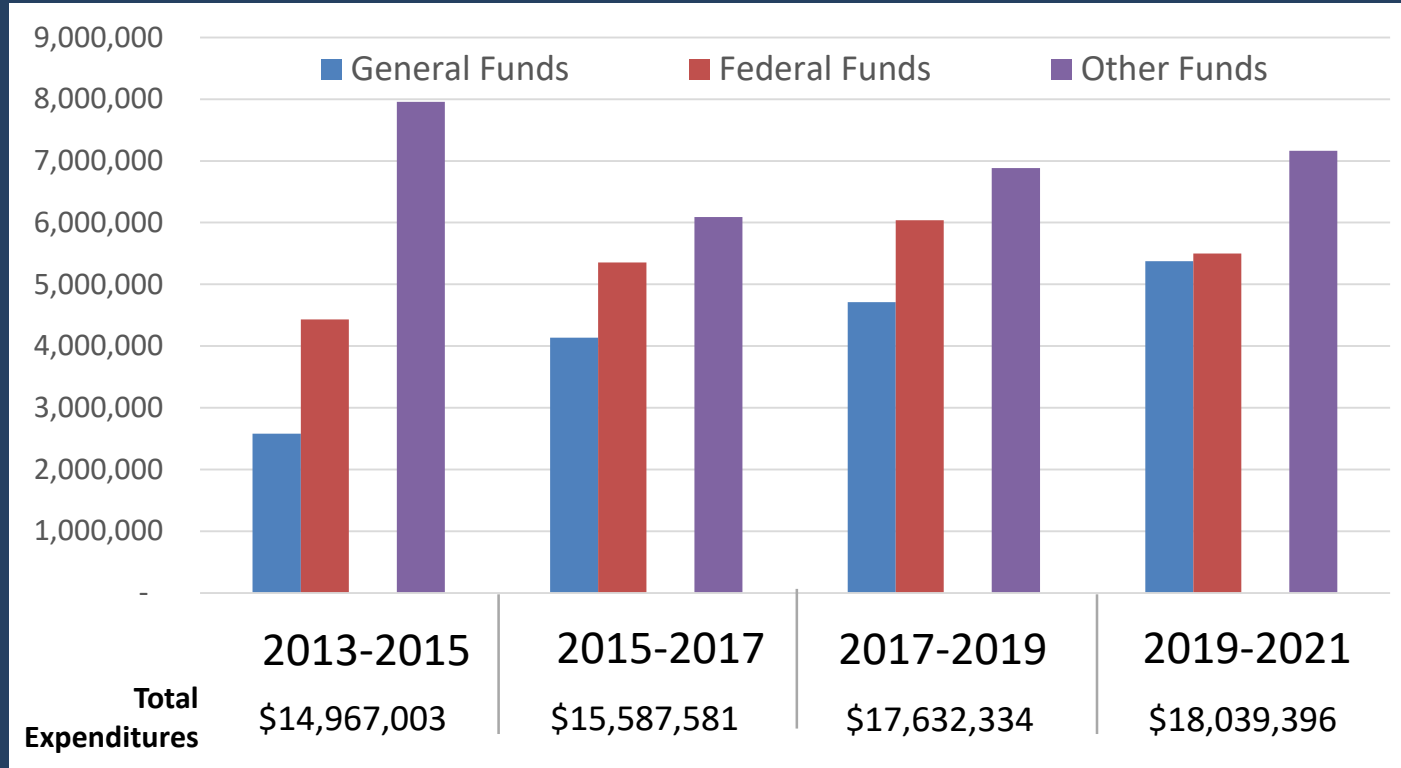
DOGAMI
Expenditure for
2019-2021

Shared Services
$4,865,411
27%

MLRR
$3,942,518
22%

Lidar
$3,392,802
19%

Administration &
Technical Services
$5,538,665
31%

Geologic Mapping &
Resource Inventory
$300,000
2%
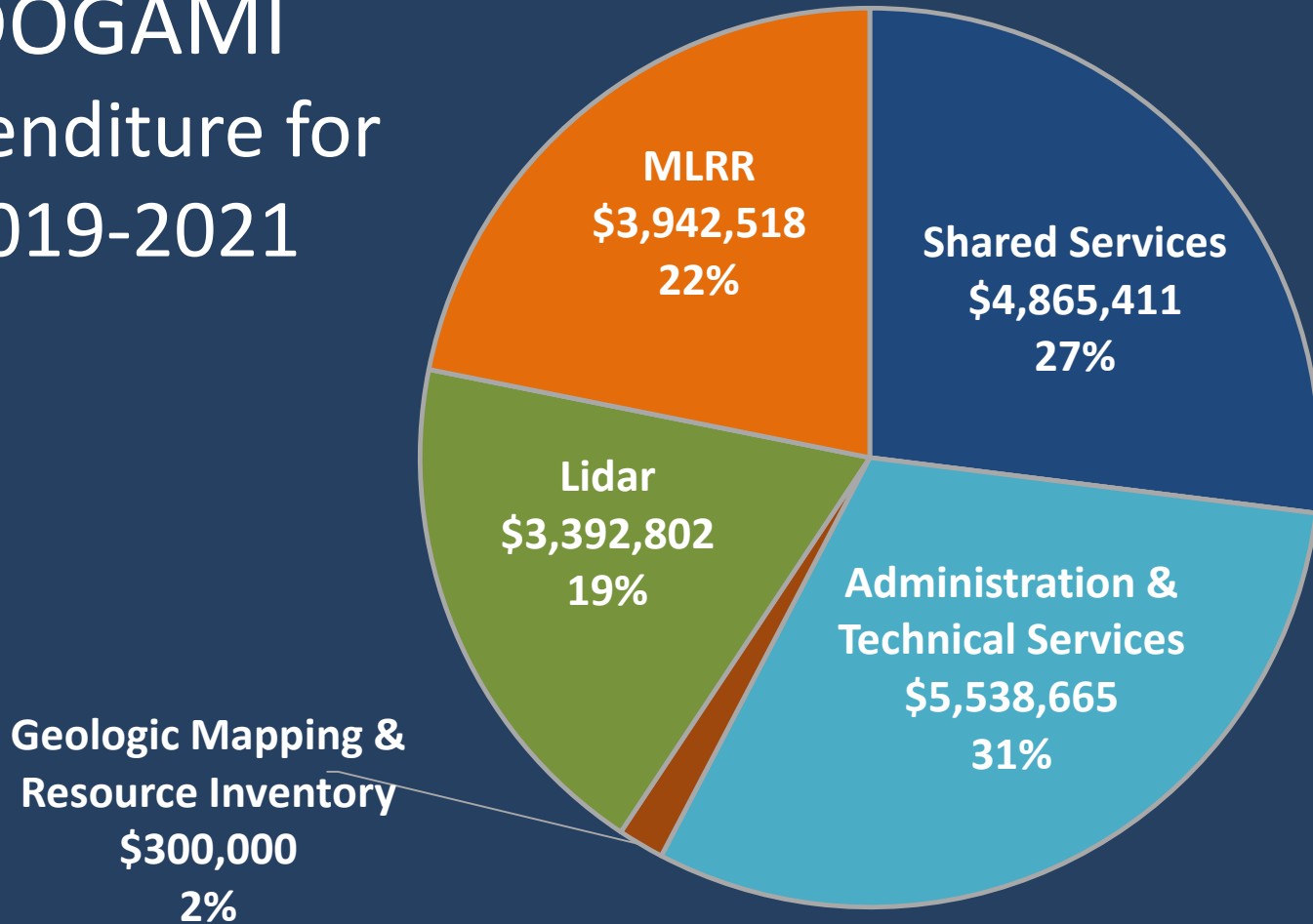
DOGAMI Policy Option Packages

Agency Leadership (Admin, IT, Finance, Communications) ● 8 FTE

Mineral Lands ● 11 FTE

Geological Survey & Services ● 25 FTE

Policy Package 101

Regulation & Reclamation of Surface Mining, Exploration, Oil & Gas, Geothermal, Chemical Process Mining

Landslide Inventory & Susceptibility Mapping

Flood & Channel Migration Mapping

Earthquake & Seismic Hazards Mapping

Tsunami & Coastal Erosion Mapping

Geological & Mineral Resource Mapping

Budget Package 090

Policy Package 102

Lidar Mapping

POLICY PACKAGE 090:
# Tsunami Vertical Evacuation Modeling

Tsunami vertical evacuation building that is currently under construction by OSU in Newport. Source: http://webcam.oregonstate.edu/msisouth 3/8/19

- Evaluate vertical evacuation options for coastal schools and hospitals that are within the Tsunami Inundation Zone.

- Evaluate earthquake early warning sites, improving evacuation routes and plans, and building defensive wall structures.

- $300,000

POLICY OPTION PACKAGE 101:
MLRR Program Capacity
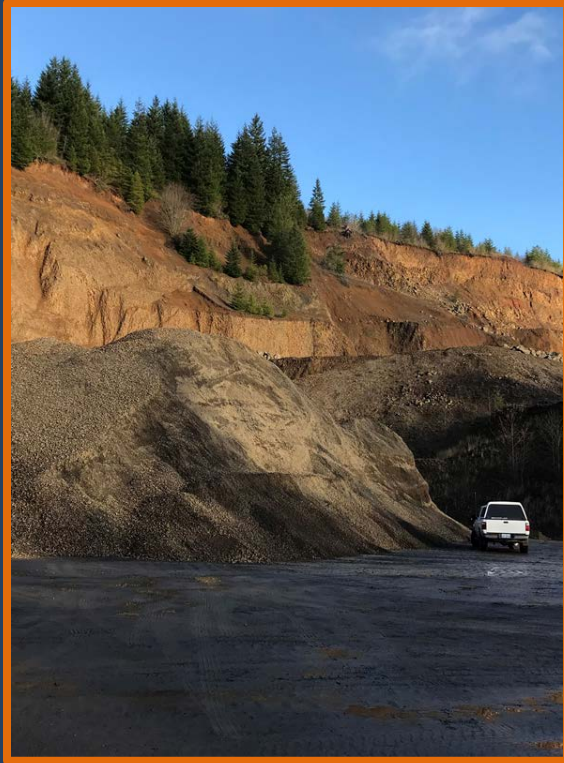
Delivering program services

- Field inspections (1 FTE – field staff)
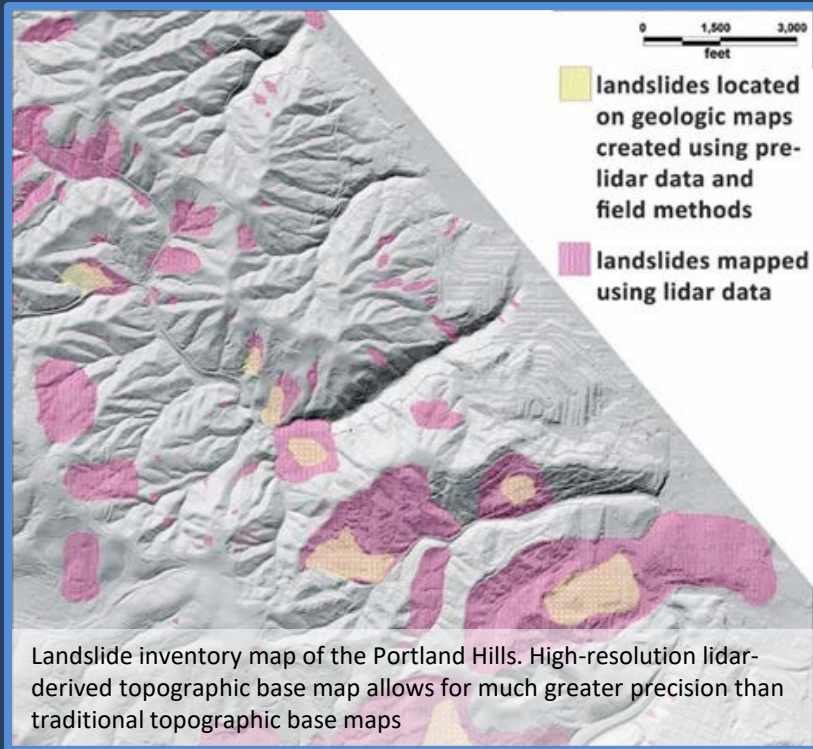- Online permitting system (1 FTE – IT staff)

POP 101 is in direct support of KPM #4 Site inspections and KPM # 5 Customer Service.

MLRR is 100% Other Funds, Senate Bill 45 addresses required fee adjustments.

POLICY OPTION PACKAGE 102:
Expansion of Lidar Mapping

Landslide inventory map of the Portland Hills. High-resolution lidar-derived topographic base map allows for much greater precision than traditional topographic base maps

- Strengthens resilience preparedness for communities unable to provide matching funds

- These funds would make DOGAMI competitive for grants requiring state matching funds

- Supports progress on KPM #1 Hazard and Risk Assessment, #2 Detailed Geologic Map and #3 Lidar Coverage

- $300,000

Thank you