

HVER CALDERA

Department of Geology and Mineral Industries

Joint Ways and Means Subcommittee on Natural Resources February 5, 2025

OUR MISSION

The Oregon Department of Geology and Mineral Industries (DOGAMI) provides earth science information and regulation to make Oregon safe and prosperous.

OUR VISION

DOGAMI envisions an Oregon where people and places are prepared for natural hazards; where decisions for Oregon's future always consider natural hazards; where resource potential is fully understood and responsibly developed with our current and future needs in mind; where earth science contributes to the health of our coast, rivers, forests, and other ecosystems; and where geologic learning and discovery abound.

OUR VALUES

We hold our work and ourselves to the highest standards of science and professionalism. We seek opportunities for innovation and collaboration. We build our capacity for sustainable success. We are open, engaged, responsive, and respectful in all we do.



Mineral Land Regulation and Reclamation Program (MLRR)

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- 30.8 ± 0.5 Ma

Permit Type	#
Operating Permit (OP)	890
Exclusion Certificate (EC)	144
Exploration Permit (XP)	28
Gas Well	75
Geothermal Well	25





Critical Mineral (CM) projects in Oregon

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Malheur County Earth MRI (USGS) CORE-CM (US DOE) CMI Hub (US DOE)

Qa, 30.8±0.5 Ma





Co

Cobalt

58.933194

Nickel 58.6934

Chromium

51,9961

<u>Grant County</u> Earth MRI geol. mapping (USGS) Earth MRI mine waste (USGS) CORE-CM (US DOE)

Post-Fire Landslides in Oregon



-30.8 ± 0.5 Ma



Post-fire debris flows are extremely destructive and can be fatal.

DOGAMI is collaborating with federal agencies, state agencies, university researcher, and Oregon communities to understand and reduce post-fire debris flow risk.

Newport Field Office Est. 2000

-30.8 ± 0.5 Ma

Assist coastal communities with land-use decisions and personal safety by helping them understand the processes and hazards that shape our coastline









- Tsunami inundation modeling & mapping
- Maritime modeling & guidance
- Evacuation modeling
- Risk & exposure analyses
- Evacuation tools





- Over two decades of Coastal monitoring
- Erosion hazard maps
- Landslide studies
- Coastal flood modeling for FEMA
- Coastal engineering studies

Agency Key Performance Measures (KPMS)



Geological Survey & Services

Qa 30.8 ± 0.5 Ma





Earth Science

MLRR

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Resource Management

All Agency



Outreach & Education



Governance & Operations

Natural Hazards KPM#5: Customer Service KPM#1: Hazard Assessment KPM#4: Percent of **KPM#6:** Governance **Active Mine Sites** Inspected KPM#2: Geologic Mapping Completion

KPM#3: Lidar Coverage



KPM 1: Geologic Hazard and Risk Assessment Completion

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The map represents the percent of population residing in Oregon Urban Growth Boundary Areas (UGBs) that have completed geologic hazard and risk assessments.

Report Year	<u>2023</u>	<u>2024</u>
Target	67%	67%
<u>Actual</u>	70.4%	72.4%

Prepared By: M. C. Williams 9-8-2023



KPM 2: Detailed Geologic Map Completion



- 30.8 ± 0.5 Ma

The map represents the percent of Oregon (inhabited) where geologic data in the form of high-resolution maps have been completed to be used for local problem solving.

<u>Report Year</u>	<u>2023</u>	<u>2024</u>	_
Target	67%	67%	КРМ
<u>Actual</u>	62.8%	63.5%	
Year/Scale	2023	<u>2024</u>	vide
<u>Year/Scale</u> <u>1:100k</u>	<u>2023</u> 31.6%	<u>2024</u> 31.8%	Statewide

Reporting Period FY 2024: July 2023- June 2024

KPM 3: Lidar Data Completion

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The map represents the percent of Oregon (in square miles) with Lidar data at USGS quality level 2 or better.

Report Year	<u>2023</u>	<u>2024</u>
Target	58%	58%
<u>Actual</u>	66.7%	76.3%

KPM 4: Surface Mine Inspections

- 30.8 ± 0.5 Ma

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The map represents the percent of active mine sites inspected.

Active sites: 452 Unique Inspections: 62

Report Year	<u>2023</u>	<u>2024</u>
Target	Old KPM	20%
<u>Actual</u>	Old KPM	14%

repared By: E. Buchner / 8-16-2024

Reporting Period FY 2024: July 2023- June 2024

KPM 5: Customer Service

30.8 ± 0.5 Ma

These graphs represent the percent of customers rating their satisfaction with the agency's customer service as "good" or "excellent" in six categories.



KPM 6: Governance

Board Evaluation Criteria

1) Executive Director's performance expectations are current

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- 2) Executive Director receives annual performance feedback
- 3) The agency's mission and high-level goals are current and applicable
- 4) The Board reviews the Annual Performance Progress Report
- 5) The Board is appropriately involved in review of the agency's key communications
- 6) The Board is appropriately involved in policy-making activities
- 7) The agency's policy option packages are aligned with their mission and goals
- 8) The Board reviews all proposed budgets
- 9) The Board periodically reviews key financial information and audit findings
- 10) The Board is appropriately accounting for resources
- 11) The agency adheres to accounting rules and other relevant financial controls
- 12) The Board members act in accordance with their roles as public representatives
- 13) The Board coordinates with others where responsibilities and interests overlap
- 14) The Board members identify and attend appropriate training sessions
- 15) The Board reviews its management practices to ensure best practices are utilized

The percent of 'yes' responses by Governing Board members to the set of best practices on the left

<u>Report Year</u>	<u>2023</u>	<u>2024</u>
Target	100%	100%
<u>Actual</u>	100%	100%



DOGAMI 2023-25 LAB Across Fund Types

General Fund

- Agency Administration, Business Operations, and Science Staff Salary as match for federal funds
- Drawn down to zero each biennium

-30.8 ± 0.5 Ma

Fee Revenue to Regulatory Program (MLRR) Other Funds

- Revenues from permit applications, annual permit renewals and cost-recovery.
- A 6-month operating balance carries over from year-to-year.

Grant Funding to Geological Survey (GS&S) Federal Funds and Other Funds

- Grant awards provide staff salary and research funds
- New grants added each year as existing grants are drawn down.
- Grant award periods may cover several years.



GS&S Grants Revenue - Funding Mix Trend

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These are the 2023-25 projections.

Actuals include December 2024, and forecast the remainder.



GS&S Non-Lidar Federal Fund Revenue - Funders Mix Trend

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Project Selections for FOA 3077: Regional Scale Collaboration to Facilitate a Domestic Critical Minerals Future: Carbon Ore, Rare Earth, and Critical Minerals (CORE-CM) Initiative – Round 1 | Department of Energy

DOE Announces Over \$32 Million to Increase Efficiency of U.S. Critical Minerals Production Through the Co-Manufacture of Value-Added Products



- \$ 300K NOAA/NWS and NTHMP**
- \$850K FEMA CTP RiskMap Program**

* - In Award Negotiation; ** - estimated amount, grant proposal in process



GS&S Non-Lidar Other Fund Revenue - Funders Mix Trend

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2023-25 Other Funders Revenue \$0.7M



Break out of "Other" includes: Ames National Lab, DEQ, Oregon DOE, ODF, OPRD



Application Processing Exceeds Regulatory Timelines

30.8 ± 0.5 Ma





Application Processing Exceeds Regulatory Timelines





Site Inspections Fall Short of KPM 4





Biennial Agency Expenditures and Staffing (FTE) History

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Budget Drivers, Risks & Information Technology

Information Technology

• ePermitting, modernize customer interface and improve customer service

Budget Drivers

- Advance Geological Carbon Sequestration in partnership with Department of State Lands (DSL) and Department of Environmental Quality (DEQ)
- Correctly size the Mineral Land Regulation & Reclamation Program
- Build and Implement ePermitting
- Match Federal Funds
- Grow the Geologic Mapping Program focused on Water and Mineral Resources

Risks

• Complete uncertainty in Federal Appropriations



Governor's Recommended Budget 2025-2027

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ePermitting IT Modernization Project Completion: POP 101



Goal: Completion of online permitting and payment system (ePermitting).

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Project: Project leverages existing state resources with completion targeted for early 2027.

Structure: General Fund to develop and implement system. Surcharge on transactions (approved 2023) to fund maintenance and support.

 Includes Vendor Contract, interagency agreement for support from DEQ, and one DOGAMI staff position (IT Systems Support Specialist).

Revenue Sources: General Fund: \$1,825,000 (\$1,325,000 rollover)

Results: This work will support KPMs 4 and 5: increasing the percent of mine sites inspected and ensuring good customer service from the agency.



MLRR Position Establishment: POP 104

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Goal: Meet existing and anticipated workload by making limited duration positions permanent in key areas:

Consolidated Permitting: DOGAMI is coordinating a complex multi-agency Consolidated Application for Chemical Process Mining. For the first time, an application has reached the permit drafting phase.

• 1.0 FTE (existing LD), Consolidated Mining Permit Lead (NRS 4), make permanent

Mining Compliance: DOGAMI works with permittees toward voluntary compliance prior to formal enforcement

- 1.0 FTE (existing LD), Mining Compliance Coordinator (NRS 3), make permanent
- 1.0 FTE (existing LD), Permit Specialist (NRS 2), make permanent

Revenue Sources: Other Fund: \$923,682 (existing fees and cost-recovery)

Results: This work will support KPMs 4 and 5: increasing the percent of mine sites inspected and ensuring good customer service from the agency.



MLRR Program Right-Sizing: POP 103



A strategic expansion of the MLRR program is needed to meet regulatory and customer service needs.

Goal: Administer a regulatory program that balances environmental management with economic development, allowing the state to meet its infrastructure and housing goals.

Structure: 12 positions, including field inspection staff, technical experts, customer service specialists and supervisory staff to fully support identified priorities for drilling, exploration and surface mining permits.

Revenue Sources:

• Other Fund: \$3,313,507 (Fee-Increase SB 836)

Results: This work will support KPMs 4 and 5: increasing the percent of mine sites inspected and ensuring good customer service from the agency.

MLRR Program Right-Sizing: POP 103

-30.8 ± 0.5 Ma

Dedicated Drilling Program – 2 FTE (Oil & Gas, Geothermal, and Exploration Well Permits)

Improved Surface Mining Outcomes – 7 FTE (Operating Permits & Exclusion Certificates)

- **4 Field Inspectors/Permit Specialists** will meet site inspection target (20%) in 2026 and exceed KPM target in 2027. A revised target will be proposed for 2027-29.
- **3 Reclamationists** will add technical expertise and reduce individual application workload to meet regulatory timelines for permit application processing by 2028.

Operational Efficiency and Timely Customer Service - 3 FTE (Program-wide)

- **Decrease agency response time** to public and permittee general inquiries
- Improve training and outreach materials for permittees and the public
- Facilitate program-wide **alignment of regulations and practices**, last reviewed in 2009
- Additional supervisory position promotes staff retention and **improves operational functionality**, including oversight of ePermitting.

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Geologic Carbon Sequestration Pilot Project: POP 102

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Goal: Volcanic rock in eastern Oregon, the Willamette Valley and the Columbia Basin provide an opportunity to investigate if geologic carbon sequestration is viable for Oregon as we encourage private-sector investments to meet 2050 climate goals.

The Governor, with the support of the State Land Board, is recommending in her budget a pilot investment for the state to explore if underground carbon capture and storage is right for Oregon.

• 4 FTE to manage project, well drilling, permitting.

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• Majority of other funds to drilling costs, data acquisition.

Revenue Sources: Other Fund: Up to \$10M (See DSL POP 217)

Geologic Carbon Sequestration Pilot Project: POP 102

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CO₂ Storage in Columbia River Basalt



Regulatory Pathway for Underground Injection Control



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Regulated by US EPA Underground Injection Control (UIC) Well Class VI



EPA allotted \$48m to States who expressed interest in exploring **Class VI** primacy

Oregon is eligible for \$1.93 million from an EPA grant **to develop a regulatory framework.**

DOGAMI and DEQ are coordinating around potential regulatory pathways for proposed projects in Oregon.



2025-27 Governor's Recommended Budget

Bill #	BILL SUMMARY
<u>HB5010</u>	Relating to the financial administration of the State Department of Geology and Mineral Industries; declaring an emergency.
	Appropriates moneys from General Fund to State Department of Geology and Mineral Industries for biennial expenses.
<u>SB836</u>	Relating to fees imposed by the State Department of Geology and Mineral Industries. Establishes fees for permit applications and renewals in the Mineral Land Regulation & Reclamation Program.

Long-Term Vacancies



- DOGAMI has no positions that qualify for long-term vacancy status.
- 2023-24 was an exceptionally successful period in hiring for vacant positions. Why? Legislative action and workload necessitated hiring.
- **Result?** An increase in the number of Staff with Registered Geologist Licenses in Oregon and/or an advanced degrees.

Budget Summary

-30.8 ± 0.5 Ma

2025-27 Governor's Recommended Budget:

- Minimal General Fund increase.
- Advance Geologic Carbon Sequestration research.
- Adjust Mineral Land Regulation & Reclamation (MLRR) Program to meet Stakeholder needs.
- Build IT infrastructure to enhance customer service and agency transparency.
- Maintain the agency strength in geological mapping and hazard mitigation.

