Making the Case – Importance of Lidar to Oregon

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September 27, 2019
Making the Case – Importance of Lidar to Oregon

• Current Oregon Lidar Coverage
• Oregon Lidar Consortium – Who/What/Why/How?
• High Level Lidar Funding Opportunities in Oregon
• Oregon Lidar Consortium Data - Data Stewardship/Sharing Update
Current Lidar Coverage in Oregon

- 48,220.63 square miles
- 30,861,203 acres
- 48.97% of Oregon has lidar

*Excludes recollected areas
Lidar Collected By Oregon Lidar Consortium

- 41,524.27 square miles
- 26,575,533 acres
- 86.11% of existing lidar collected by Oregon Lidar Consortium

*Excludes recollected areas*
WHAT?
Program at Oregon Department of Geology and Mineral Industries (DOGAMI) tasked with acquiring lidar over the entire state.

WHO?
EVERYONE PLEASE LOOK UNDER YOUR CHAIR

Just Kidding!
YOU are the Oregon Lidar Consortium!
National Enhanced Elevation Assessment (NEEA) completed a study in 2011 to identify the top 10 business uses of lidar data in Oregon. The annual benefit of high quality lidar for the top 10 uses was 45.73 million (yes per year!)

“...all levels of government and many organizations in Oregon could benefit from access to statewide high resolution elevation data.”

Oregon Lidar Consortium

HOW? The 3 Cs

1. Collaboration:
   - Oregon geospatial governing entities
   - Federal agencies that operate in Oregon
   - Tribal organizations
   - State and regional agencies
   - Local and private groups

2. Cost:
   - Large lidar collections cost a lot of money
   - Standardized pricing for products and services
   - Lower cost for large projects
   - Cheaper to work together

3. Coordination
   - Communication with stakeholders
   - Project management
   - Develop prioritization plans
   - Data stewardship

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Oregon Lidar Consortium: High Level Funding Opportunities

State Government:

- **Policy Option Package**
  - Special budget request that align with state priorities.

- **OWEB – Oregon Water Enhancement Board**
  - [https://www.oregon.gov/oweb/grants/Pages/grant-programs.aspx](https://www.oregon.gov/oweb/grants/Pages/grant-programs.aspx)

- **Oregon Framework Development Program**
  - Grant program sponsored by the Oregon Geospatial Enterprise Office.
  - “The purpose of the program is to assist the Framework community in meeting its goals, particularly in the areas of data development, access, and integration.”

[https://www.oregon.gov/geo/Pages/index.aspx](https://www.oregon.gov/geo/Pages/index.aspx)
Oregon Lidar Consortium: High Level Funding Opportunities

Federal Government:

- Cooperating Technical Partners
  - FEMA CTPs (DOGAMI, DLCD, OEM) can seek grant funding from FEMA on behalf of local stakeholders for hazard mapping and risk mitigation projects.
  - BLM – Seeking to establish new 5 year cooperative agreements to fund lidar collection.
  - NRCS - Seeking to establish 5 year agreement with NRCS regional office.
- USGS 3D Elevation Program –
  - Complete the acquisition of lidar in 8 years to provide national baseline of consistent, high-resolution elevation data.

https://www.usgs.gov/core-science-systems/ngp/3dep/what-is-3dep

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OLC Funding Opportunities: USGS 3DEP

Quality Level 1 3DEP Lidar in Oregon:

- 9,049.82 square miles of OLC 3DEP data
  - Dark Green
- 863 square miles of NON-OLC funding 3DEP data
  - Pink
- 3DEP funded projects through OLC – FY19/FY20
  - Brown

- Developing 3DEP collection areas for FY19/20 (Not through OLC)
  - Light Green
- OLC 3DEP grant submission areas for FY20/FY21 collection
  - Purple
• Most of Oregon does not have 3DEP data
  • Beige Areas of Oregon

• USGS 3DEP will provide up to 50% of the cost to acquire new lidar data.
  • 25% of the Non-USGS funds has to be Non-Federal funding.

• 3DEP is a HUGE opportunity to re-acquire lidar data in Western Oregon.
Oregon Lidar Data Viewer – UPDATES!
Let's Talk!

Port Orford

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