

**DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES**

**POLICY AND PROCEDURE**

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**TITLE:** LIDAR DATA DISTRIBUTION POLICY

**NUMBER:** OP 2017 001 v2.0

**APPROVED BY:** Ian Madin, Deputy Director

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**Document History**

Date	Version	Author(s)	Change Log
1/4/2013	1.0	Andree Pollock	Approved Policy
3/8/2017	1.1	Jed Roberts	Collaborative Draft Version
4/6/2017	1.2	Jed Roberts	Collaborative Draft Version
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## **BACKGROUND**

Lidar topographic data is an indispensable tool for mapping, monitoring and managing urban infrastructure, agriculture, natural resources and natural hazards in Oregon. The Oregon Department of Geology and Mineral Industries (DOGAMI) oversees the Oregon Lidar Consortium (OLC), which was established in 2007 to develop cooperative agreements for cost-effective collection of high-quality lidar data. OLC lidar data is in the public domain, with no restrictions on use or redistribution.

The purpose of this policy is to ensure Oregon's lidar data is widely available by establishing consistent, clear and efficient procedures for distributing data to OLC funding partners and all others.

## **DEFINITIONS**

Funding partner: A public or private entity that has entered into a service agreement that provides funds to the OLC to collect lidar for an area of interest that constitutes a partial or complete project area.

Project area: A geographic area where lidar is collected by the OLC's vendor under a purchase order. Project areas may consist of multiple funding partner areas of interest.

Area of interest (AOI): A geographic area that represents an individual funding partner's interest in an overall project area.

Tiling scheme: Due to large data file sizes, lidar project areas are divided into tiles based on the U.S. Geological Survey's national 7.5-minute quadrangle system.

## **DISTRIBUTION POLICY**

### **Distribution to Oregon Lidar Consortium Funding Partners**

OLC funding partners receive one-time, no-cost delivery of the data for all tiles that intersect their contracted AOI, as specified in the service agreement. Funding partners may also request the entire project area.

Funding partners receive a copy of finalized data and supporting documentation, which includes:

- Project boundary and tiling scheme shapefiles;
- Ground survey points, ground control points, monuments, quality control, trajectories, and flight lines shapefiles;
- Bare earth rasters (i.e. digital elevation models);
- Highest hit rasters (i.e. digital surface models);
- Intensity rasters;
- Classified point cloud data;
- Metadata;
- DOGAMI data acceptance report;
- Vendor survey report; and
- Optional services, if purchased, such as orthoimagery, hydro-flattened rasters, alternative tiling schemes, etc.

Finalized data has been determined by DOGAMI technical staff to meet contract specifications as outlined in the current State of Oregon price agreement with the lidar vendor. This determination is made through a rigorous quality control analysis and documented in the DOGAMI data acceptance report.

Compiled release of project area data: Project areas may cover hundreds to thousands of square miles and the vendor may deliver data to DOGAMI in separate releases spanning many months. DOGAMI reserves the right to await complete delivery of a project area before delivering AOIs to funding partners.

Redistribution of data by funding partners: Funding partners may redistribute data they receive. DOGAMI does not track the distribution policies of our funding partners and assumes no responsibility for data they redistribute.

### **Distribution to All Others**

Distribution of raster data: After an OLC project is complete and finalized data have been delivered to funding partners, DOGAMI releases project boundary shapefiles, all raster data, metadata, the vendor survey report, and the DOGAMI data acceptance report for no-cost download via its Lidar Data Viewer web map at [www.oregongeology.org/lidar/dataviewer](http://www.oregongeology.org/lidar/dataviewer).

Raster data are made available as quickly as possible. However, formatting the data to be accessible via the viewer requires considerable staff time. There may be a lag time of months before finalized data are available for download on the viewer.

Distribution of Point Cloud Data: Due to extremely large file sizes, point cloud data is not available via the Lidar Data Viewer. DOGAMI will make point cloud data available through a public records request. A request can be initiated at [www.oregon.gov/DOGAMI/Pages/Public-Records-Requests.aspx](http://www.oregon.gov/DOGAMI/Pages/Public-Records-Requests.aspx). Oregon Public Records Law allows DOGAMI to recover costs to fulfill a request. DOGAMI may consider fee reductions or waivers as applicable under ORS 192.440 (5).

A requestor must order data in increments based on the OLC tiling scheme; the tiles should be included in the public records request. Custom areas not based on the tiling scheme will not be provided.

### Point Cloud Data Distribution Procedure:

1. The requestor initiates a public records request and includes a list of tiles.
2. DOGAMI confirms the request within three business days provides an estimate of cost recovery as soon as practicable.
3. The requestor reviews the cost estimate and may direct DOGAMI to proceed with fulfilling the request.
4. DOGAMI will issue an invoice to the requestor for the agreed upon tiles and cost.
5. After the invoice has been paid, DOGAMI will deliver the data within 10 business days one of two ways: (1) via DOGAMI's file transfer protocol server, or (2) via mail or requestor pickup after receipt of a blank hard drive from the requestor that meets minimum storage

space requirements as specified by DOGAMI. The method of delivery will be determined by DOGAMI.

#### **Distribution of Non-OLC Data**

DOGAMI's holdings include lidar data collected by entities other than the OLC. Where DOGAMI has written permission to redistribute non-OLC data, it is provided through the procedures described in the *Distribution to All Others* sections. If DOGAMI does not have written permission the data will not be redistributed.

#### **Additional Distribution of Lidar Data**

To increase access to OLC data, DOGAMI provides copies at no cost to state and federal organizations for distribution, including:

- Oregon State University: DOGAMI provides copies of raster and point cloud data to OSU for distribution on their public FTP site at <ftp://lidar.engr.oregonstate.edu>
- National Oceanic and Atmospheric Administration: DOGAMI provides copies of lidar point cloud data to NOAA for distribution on their Digital Coast website at [coast.noaa.gov/digitalcoast](http://coast.noaa.gov/digitalcoast)
- U.S. Geological Survey: DOGAMI provides copies of raster data to USGS for distribution through the National Map website at [nationalmap.gov/elevation.html](http://nationalmap.gov/elevation.html)

There may be a lag time of months before completed OLC data are delivered to these organizations, and further delays between receipt of the data and posting.