



# CITY OF SALEM

585 Liberty St SE  
Salem, OR 97301

## Staff Report

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File #: 18-547

Version: 1

Date: 12/10/2018

Item #: 3.3c.

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**TO:** Mayor and City Council  
**THROUGH:** Steve Powers, City Manager  
**FROM:** Peter Fernandez, PE, Public Works Director

**SUBJECT:**

Intergovernmental Agreement with the Oregon Department of Geology and Mineral Industries for LIDAR data acquisition.

Ward(s): All Wards

Councilor(s): All Councilors

Neighborhood(s): All Neighborhoods

**ISSUE:**

Shall the City Council authorize the City Manager to execute the attached Intergovernmental Agreement with the Oregon Department of Geology and Mineral Industries for LIDAR data acquisition?

**RECOMMENDATION:**

Authorize the City Manager to execute the attached Intergovernmental Agreement with Oregon Department of Geology and Mineral Industries for LIDAR data acquisition.

**SUMMARY AND BACKGROUND:**

LIDAR is an acronym for Light Detection and Ranging and is a surveying method used to measure distances by using pulsed laser light and measuring the time it takes for a transmitted pulse to return. The Oregon Department of Geology and Mineral Industries (DOGAMI) regularly acquires high resolution LIDAR data for a wide range of uses in forestry, agriculture, geology, engineering, watershed restoration and monitoring, and other applications. Large multi-agency regional data collection projects can provide data for multiple users, reduce costs, and ensure wider coverage.

DOGAMI has invited Salem to join with Santiam Water Control District, City of Sublimity, City of Aumsville, City of Turner, City of Stayton, and Marion County Soil and Water Control District to obtain LIDAR data within the boundaries of the aforementioned jurisdictions, a nearly 200 square mile area. By participating in this multi-jurisdictional project, Salem will be able to obtain valuable LIDAR data in

a short amount of time and at lower cost than if the data were obtained through a City-only funded project.

Upon approval, staff will execute the attached IGA with DOGAMI. The LIDAR data are scheduled to be available for City use by early 2019.

## **FACTS AND FINDINGS:**

1. LIDAR data provides key topographic information that is essential for a variety of City purposes. The City's current topographic data are based on prior technology that provides less precise level of detail, which limits its effectiveness of many applications.
2. The City has sufficient budget authority to support the project.
3. The City share of the LIDAR project will be based on the City's proportional ratio of land area benefiting from the project as far as the Urban Growth Boundary. The City's benefited land area is approximately 58,470 acres, and the City's projected cost is \$53,791 or 92 cents per acre.

Robert Chandler, PhD, PE  
Assistant Public Works Director

### Attachment:

1. IGA with DOGAMI