

Department of Geology and Mineral Industries Connolly

Request: Authorization to apply for a grant of \$191,505 for the 3D Elevation Program (3DEP) from the U.S. Geologic Survey (USGS).

Recommendation: Approve the request.

Discussion: The Oregon Department of Geology and Mineral Industries (DOGAMI) is requesting authorization to apply for a grant of \$191,505 from the USGS to continue its collection of Lidar data in the Harney Basin. This grant would specifically collect data for the Oregon Lidar Consortium Silver Creek 2017 project, which covers 751 square miles located in Crook and Harney counties. See map below.

The collection of Lidar in the Silver Creek sub-basin will allow for a comprehensive assessment of the hydrologic connectivity within the larger Harney Basin. It will also help identify stream gradients or meander pools inhabited by invasive carp and can be used to measure and monitor stream conditions that affect water quality, flood mapping and modeling, management of wildlife refuge resources and precision agriculture. This area is a high value acquisition for the USGS and a high priority for future geologic mapping through the STATEMAP program.

This grant will be matched with \$304,410 in funding from two other members of the Oregon Lidar Consortium: the Natural Resource Conservation Service and the Oregon Watershed Enhancement Board. This project will be complete when the funding ends. DOGAMI has received federal funding from the 3DEP program since 2015.

The grant application is due to USGS by September 30, 2017, and USGS may award the grant before the end of Federal Fiscal Year (FFY) 2017, or during FFY 2018, depending on the USGS budget. DOGAMI and its partners believe the project will be worthwhile to pursue even if delayed for several months. The agency has sufficient Federal Funds expenditure limitation in the 2017-19 biennium to accept the grant.

