

# EMERGING LIDAR TECHNOLOGY FEDERAL ROUNDTABLE

Co-Sponsored by

The 3D Elevation Program Executive Forum

The Civil Applications Committee

And

The White House Office of Science and Technology Policy

September 16, 2014, 9:30 AM -12:30 PM  
White House Conference Center, Truman Room  
726 Jackson Place, Washington, D.C.

## Background

Photon counting and Geiger mode lidar systems have been developed primarily for the Defense community to support warfighter applications abroad. Waveform lidar is another emerging technology that is being applied in research settings. Because these systems allow for high-resolution data acquisition at higher sensor altitudes, they may potentially reduce costs for the 3D Elevation Program (3DEP) to produce nationwide lidar coverage (ifsar in Alaska). 3DEP is designed to address the requirements of 34 Federal agencies, 50 states and local, tribal, and private organizations. Future commercialization of more efficient technology could improve cost efficiency and accelerate data coverage for the next generation of 3DEP and to serve a multitude of government and private applications.

## Co- Sponsors

The **3DEP Executive Forum** facilitates executive dialogue and collaboration on strategies to implement and sustain 3DEP for the benefit of its Federal stakeholders and the broader community

The **Civil Applications Committee** (CAC) provides a forum for Federal civilian agencies to coordinate requirements and develop strategies for use of classified data from defense and intelligence systems

The **Office of Science and Technology Policy** provides the President and his senior staff with accurate, relevant, and timely scientific and technical advice; ensures that the policies of the Executive Branch are informed by sound science; and ensures that the scientific and technical work of the Executive Branch is properly coordinated so as to provide the greatest benefit to society

## Meeting Goals

- Share Federal status and plans for emerging technologies
- Discuss potential next steps to help advance commercialization of emerging technology for future use in 3DEP and its full range of stakeholder applications
- Improve coordination to promote the advancement of new technology

## Draft Agenda

1. Opening remarks – *Suzette Kimball, Director, U.S. Geological Survey*
2. Administration Perspectives on Earth Observations for Three-Dimensional Surface Modeling and Volumetric Analysis – *Peter Colohan, Office of Science and Technology Policy*
3. Overview of 3DEP requirements and potential of emerging technology – *Jason Stoker, U.S. Geological Survey*
4. Panel discussion: Overview of Major Federal Activities
  - Photon Counting: Buckeye System – *Michael Harper, Army Geospatial Center*
  - NASA Research: LVIS, SIMPL and MABLE – *Bryan Blair and David Harding, National Aeronautics and Space Administration*
  - Geiger Mode: ALIRT – *Steven Hall, National Geospatial-Intelligence Agency*
5. Open discussion
6. Outcomes and next steps

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