3D Elevation Program (3DEP) Update

nationalmap.gov/3DEP

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November 2017
USGS 3D Elevation Program
2018 Broad Agency Announcement (BAA)

- Issued to facilitate the collection of lidar and derived elevation data for 3DEP.
- Process to provide increased visibility and opportunity to the broadest stakeholder community possible: Federal, State, Regional, Tribal, etc.
- fedBizOpps.gov, grants.gov

Timeline

- Attend National Webinars 8/10, 8/17
- Submit Proposals 8/16 – 10/20
- Enter Project Requirements in SeaSketch
- BAA Released 8/16 fbo.gov grants.gov
- Selections Announced 11/15 – 2/15
- BAA Contract and Grant Administration
- BAA Project Execution

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Proposal Review Information
Criteria

4. Project Cost and Cost Share (funds contributed by applicant)

5. Maturity of Applicant’s Proposal and maturity of designated funding sources

6. Technical Approach
   - Projects making use of the GPSC as the acquisition mechanism receive full score for technical approach
   - Applicants proposing to manage their own contract will be evaluated on the applicant’s approach to data acquisition and required project deliverables

7. Past Performance
3D Elevation Program: FY17 Status of 3DEP Quality Data

Map showing the areal extent and quality level of planned, in progress, and existing publicly available lidar (ifssar in Alaska) data identified by the U.S. Interagency Elevation Inventory (USEI) that meet 3DEP base-level specification as of August 2017. 3DEP base-level specification data are defined as quality level 2 or better lidar data (ifssar in Alaska) and 8 years old or newer. The inventory was produced in partnership by the U.S. Geological Survey and the National Oceanic and Atmospheric Administration. While every attempt has been made to accurately inventory projects that are publicly available, some errors and omissions may occur.

Explanation
In-Progress and Existing Data that Meet 3DEP Specification
- **Green**: Lidar
- **Blue**: Ifssar (Alaska)
- **Other Lidar Data**
- **No Publicly Available Lidar Data (or Ifssar in Alaska)**
3DEP Project Coordination

SeaSketch
Primary Tool for Coordinating State and Federal Lidar Requirements

https://cms.geoplatform.gov/elevation/3DEP
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3DEP FY17 Partnerships To Date

3DEP data have been contracted for 11.4% of the Nation

- Between FY13 and FY17, 3DEP data (lidar and IfSAR) have been contracted for 37% of the entire US
- Alaska IfSAR – 92% of state available or in work to date in FY17

USGS
The National Map
Your Source for Topographic Information
### USGS 3D Elevation Program
**Florida Lidar Investments**

<table>
<thead>
<tr>
<th></th>
<th>Federal Contribution</th>
<th>State/Tribal Contribution</th>
<th>Total Project Value</th>
<th>Square Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Northwest Florida Water Management District (FY17)</strong></td>
<td>$300,640</td>
<td>$674,675</td>
<td>$975,315</td>
<td>4,331</td>
</tr>
<tr>
<td><strong>St. Johns River Water Management District (FY17)</strong></td>
<td>$87,600</td>
<td>$262,780</td>
<td>$350,380</td>
<td>690</td>
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<tr>
<td><strong>U.S. Forest Service Apalachicola N.F. Region (FY17)</strong></td>
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<td>$0</td>
<td>$120,640</td>
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<tr>
<td>Suwannee River Water Management District</td>
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<tr>
<td>Palm Beach County</td>
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<td>$709,740</td>
<td>1,995</td>
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<tr>
<td>Osceola County</td>
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<td>Martin County</td>
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<tr>
<td>Seminole Tribe of Florida, Brighton and Big Cedar Reservations</td>
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<td>$206,250</td>
<td>285</td>
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<tr>
<td>Everglades National Park</td>
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<td>$770,590</td>
<td>1,211</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$1,825,320</strong></td>
<td><strong>$2,903,615</strong></td>
<td><strong>$4,728,935</strong></td>
<td><strong>14,117</strong></td>
</tr>
</tbody>
</table>
The goal of 3DEP is national coverage. This map reflects current near term federal agency areas of interest for data acquisition. Overlap or adjacency with these near term federal agency areas of interest is encouraged and is one of several evaluation criteria defined within the BAA, however 3DEP welcomes proposal submissions over the entire United States in pursuit of national 3DEP coverage. All proposals will be reviewed against the full set of evaluation criteria. Final FY18 acquisition areas will be defined based on submitted and accepted proposals, as well as analysis of existing data holdings and work in progress. Final program of work is subject to available funding. as of August 2017
2008 3DEP BAA

Exceptions for Non-Conventional Lidar Technologies

- Geiger Mode and Single Photon lidar product generation
- Structure 3DEP to assure that the applicants wishing to make use of these technologies can have their submissions considered.
- Applicants requesting the use of a non-conventional technologies will be consulted prior to award to discuss variations between data derived from conventional and non-conventional technologies.

3. Exceptions for Non-Conventional Technologies

Geiger Mode and Single Photon lidar systems do not currently meet the USGS Lidar Base Specification, as that specification was written to specifically address conventional lidar systems. Submissions for the use of these technologies will be considered and reviewed against the stated criteria as noted in section VI. A, with noted exceptions to the lidar base specifications. All exceptions to the lidar base specifications resulting from the use of non-conventional lidar systems will be documented, discussed and agreed upon prior to final award. Agreed upon exceptions to the Lidar Base Specifications will be noted in the award documentation.