

U.S. Geological Survey

Broad Agency Announcement for 3D Elevation Program (3DEP)

G16PS00711

Grants.gov Funding Opportunity Number: G16AS00121

This information collection is authorized by Executive Order 12906. Your response is required to obtain or retain a benefit. We estimate it will take approximately 61 hours to prepare and submit the application. Monthly progress reports will take approximately 1 hour to prepare and the final report should take 20 hours to prepare.

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I. OVERVIEW INFORMATION

Agency Name: U.S. Geological Survey (USGS), National Geospatial Program, 12201 Sunrise Valley Drive, MS 590, Reston, VA 20192

Issuing Acquisition Office: USGS Office of Acquisition and Grants (OAG), 12201 Sunrise Valley Drive, MS 205, Reston, VA 20191

Lidar Data Acquisition Opportunity Title: 3D Elevation Program (3DEP)

Announcement Type and Date: Initial Announcement – August 2016

CFDA Number: 15.817 National Geospatial Program: Building the National Map

Public Meetings: Public webinars to review submission procedures will be held on 11 and 15 August 2016. Registration is required. Details are posted on:

<https://cms.geoplatform.gov/elevation/3DEP/PublicMeetings>.

Response Dates: Proposals for lidar acquisition are due by 5:00PM ET on 10 October, 2016. The BAA will remain open and proposals received after the initial due date will be considered for review until 30 September 2017 or until such time as the BAA is cancelled through an amendment or another BAA is issued; **additional selections will be made depending on availability of funding** and evaluation of proposals consistent with the evaluation criteria provided herein.

II. 3D ELEVATION PROGRAM (3DEP) OPPORTUNITY DESCRIPTION

A. *Introduction*

This Broad Agency Announcement (BAA) is issued to facilitate the collection of lidar and derived elevation data for the 3D Elevation Program (3DEP). The BAA continues the USGS's long-standing approach to elevation data acquisition through a combination of contracting through the USGS Geospatial Products and Services Contracts (GPSC) and partner acquisitions. The BAA is meant to provide increased visibility to these existing processes for data acquisition partnerships to the broadest stakeholder community possible.

Proposals are invited from applicants who wish to propose a partnership with 3DEP to fund lidar data acquisition and the creation of lidar derived elevation products. Applicants may fund an acquisition project through the USGS Geospatial Products and Services

Contract or they may request 3DEP funds to apply towards a lidar data acquisition project where the requesting partner uses their own contracting vehicle. Federal agencies, state and local governments, tribes, academic institutions and the private sector are eligible to submit proposals. The Government will review proposals based on the project's alignment with the evaluation criteria identified in section VI.A. of this BAA.

A synopsis of previous BAA Awards is available on <http://nationalmap.gov/3DEP/index.html>. 3DEP products and services, including data resulting from BAA projects can be accessed via The National Map Data Download and Visualization Services: <http://nationalmap.gov/launch>.

B. Background

3DEP was developed to respond to needs for high-quality topographic data and for a wide range of other three-dimensional representations of the Nation's natural and constructed features

The U.S. Geological Survey was designated by the Office of Management and Budget (in 2002 through OMB Circular A-16) as the lead Federal agency for terrestrial elevation data. The 3DEP is designed to fulfill that leadership responsibility and to ensure that the needs of the Nation for high-quality 3D elevation data are being met. This role cannot be filled by the USGS alone, and 3DEP is a collaborative approach to acquiring data for the nation. 3DEP includes many partners: Federal agencies and State, Tribal, and local governments, who will work together to build on existing programs to complete the national collection of 3D elevation data. Private sector firms, under contract to the Government, are collecting the data and providing essential technology solutions to manage and deliver these data and services. The implementation model for 3DEP is based on multi-agency partnership funding for acquisition, with the USGS acting in a lead program management role to facilitate planning and acquisition for the broader community, through the use of government contracts and partnership agreements. 3DEP presents a unique opportunity to increase collaboration among all levels of government, to leverage the services and expertise of private sector mapping firms that acquire the data, and to create jobs now and in the future.

3DEP is based on the results of the National Enhanced Elevation Assessment (NEEA) (<http://nationalmap.gov/3dep/nea.html>), which indicated an optimal benefit to cost ratio for Quality Level 2 (QL2) data collected over 8-years to complete national coverage. 3DEP aspires to systematically collect elevation data in the form of high-quality light detection and ranging (lidar) data over the conterminous United States, Hawaii, and the

U.S. territories, as well as interferometric synthetic aperture radar (ifsar) data over Alaska.

C. Opportunity Considerations and Clarifications

1. Contract Mechanism

Applicants may propose to use the existing USGS Geospatial Products and Services Contracts (GPSC) to acquire data. Alternatively, they may propose to use another contracting vehicle that they manage and directly oversee for data acquisition.

a) Geospatial Products and Services Contracts (GPSC)

The USGS National Geospatial Program's preferred method of data acquisition is through the GPSC, a multiple award acquisition vehicle that is designed to utilize the teams of firms on the contract for services needed to accomplish 3DEP data acquisition. The contracts include acquisition, processing, and quality assurance of lidar and other source geographic data. These contracts are already in place and have been awarded through a competitive process, consistent with the Competition in Contracting Act and the Brooks Act. Firms on the GPSC have been selected based on their qualifications and performance in providing the professional services needed for 3DEP. The GPSC is an indefinite delivery, indefinite quantity (IDIQ) contract that provides for an indefinite quantity of services for a fixed time, above a specified minimum. IDIQs help streamline the contract process and speed service delivery. To ensure data quality and efficient development of standard products and services, the USGS prefers that partners use the GPSC when possible and practical and expects to allocate approximately 80% or more of the available funding to projects proposing to use the GPSC.

The GPSC is also offered as a service for acquiring elevation data for external organizations who are not seeking additional funding. Information on this service can be found at: (http://geodatacontracts.er.usgs.gov/gpsc_information_sheet.html)

b) Cooperative Agreement

Applicants may request financial assistance to support a contracting vehicle for data acquisition that the applicant manages and directly oversees. This assistance is provided through a *cooperative agreement*, which is neither a contract nor a grant. As a cooperative agreement, there will be *substantial involvement* on the part of the USGS with the recipient's organization to promote the objectives of the program, monitor progress, and agree on milestones and accomplishments for work performed as part of this agreement. The USGS expects to allocate approximately 20% or less of the available

funding to projects requesting assistance awards.

2. Acquisition in Alaska

3DEP coverage for Alaska is primarily focused on completion of state-wide ifsar. However, proposals for QL2 lidar in Alaska will be considered over targeted acquisition areas to include:

- critically targeted geographies identified by multiple agencies in the original NEEA study
- areas that overlap with Federal priorities as noted in attachment B: 3DEP FY17 Consolidated Federal Areas of Interest
- Alaska coastlines extending to the 50-foot elevation line. Consideration of additional extent may be considered in developed areas or areas of populated native communities to support Geo-hazard and flood related assessment and mitigation.
- flat geographies of the Yukon delta including all US Fish and Wildlife Service (USFWS) refuge lands therein, and in north central Alaska surrounding Barrow
- larger municipalities with Federal Aviation Administration (FAA) regulated airport facilities and FAA's identified Alaska Peninsula flight approach area. Primary transportation corridors to include existing and proposed railways, highways, ports, and major river corridors.
- the area of the Yukon River basin identified for native Alaskan village flood risk

D. 3DEP Lidar Base Specifications, Project Deliverables and Upgrade Options

1. Lidar Base Specifications

The deliverables for any given project must conform to the most current published USGS product specification for lidar and derived products, USGS Lidar Base Specification Version 1.2, which can be found at <http://pubs.usgs.gov/tm/11b4/>. In the event that a new version of the specification is released during the open period of the BAA, opportunities to migrate to the revised specification will be discussed and agreed upon at the time of award.

In addition to the requirements outlined in the USGS Lidar Base Specification, lidar data and derived products will meet the current definition of Quality Level 2 (QL2) as follows:

“Classified lidar point cloud data, with a minimum point density of 2 points per square meter, a nominal lidar pulse spacing of no greater than 0.7 meter, and a relative vertical accuracy of no greater than 10-cm root mean squared error (RMSEz)”

Quality Level	Source	Vertical Accuracy RMSEz	Nominal Pulse Spacing (NPS)	Nominal Pulse Density (NPD)	DEM Post Spacing
QL1	Lidar	10 cm	0.35 m	8 points/sq. meter	0.5 meter
QL2	Lidar	10 cm	0.7 m	2 points/sq. meter	1 meter
QL3	Lidar	20 cm	1.4 m	0.5 points/sq. meter	2 meters
QL4	Imagery	139 cm	N/A	N/A	5 meters
QL5	Ifsar	185 cm	N/A	N/A	5 meters

2. Quality Level Upgrades (QL1)

The USGS anticipates awarding lidar projects for QL2 data. However, this does not preclude applicants from proposing projects for the acquisition of higher quality QL1 data. The USGS will only contribute funds for the cost of QL2 data and any costs associated with the upgrade to higher quality data will be borne solely by the applicant. Applicants will be asked to detail these upgrade costs in the proposal submission tool

3. Exceptions for Non Linear Mode Technologies

The 3DEP program is undergoing an assessment of Geiger Mode and Single Photon lidar systems; these systems do not currently meet the USGS Lidar Base Specification, as that specification was written to specifically address linear mode lidar. The technologies are showing enough potential to warrant additional testing and the development of next steps. In FY16 the USGS supported a limited number of incubation phase acquisitions making use of these technologies. The program expects to award a similar number of incubation phase projects in FY17. By allowing for a limited set of incubator collections across the country, 3DEP can continue to learn about, adapt to, and help these systems come in to full compliance with our specifications; Exceptions to the Lidar Base Specifications applicable to these technologies are noted in the award documentation.

E. Objective

This effort will result in the availability of high-resolution, public domain, lidar data and

derived elevation products, obtained through collaboration between the US government, tribal organizations, state and regional agencies, academic institutions and the private sector.

III. AWARD INFORMATION

Awards made under this BAA are subject to the availability of funds and may be in the form of a contract for data acquisition through the USGS Geospatial Products and Services (GPSC) or a cooperative agreement.

IV. ELIGIBILITY INFORMATION

A. *Eligible Applicants*

Single entities or teams from Federal agencies, state and local governments, tribes, academic institutions and the private sector are eligible to submit proposals. Historically Black Colleges and Universities (HBCU), Minority Institutions (MI), Small Business concerns, Small Disadvantaged Business concerns, Women-Owned Small Business concerns, Veteran-Owned Small Business concerns, Service-Disabled Veteran-Owned Small Business concerns, and HUB Zone Small Business concerns are encouraged to submit proposals and to join other entities as team members in submitting proposals.

B. *Cost Share, Minimum non-Federal match for Cooperative Agreements, Project Scope*

The implementation model for 3DEP is based on multi-agency partnership funding for acquisition. Applicants **must** commit to a cost share for their project to be considered for funding. Cost share (funds contributed by applicant) is an evaluation factor against which proposals are rated. The greater the applicant's cost share, the greater the score for this factor. In 2016, the average BAA award covered 38% of the total project cost, resulting in an average cost share of 62% by award recipients. Project awards ranged from \$8,388 to \$797,472, with an average award of \$330,261. BAA Awards must comply with the following federal guidelines:

1. USGS Appropriations Law: Cost share restrictions for mapping projects carried on in cooperation with states and municipalities

Appropriations law regulates the amount of money that the USGS can contribute to a mapping project carried on in cooperation with states and municipalities. The regulation dictates that the USGS may not pay more than one-half the cost of topographic mapping (which includes lidar and derived elevation products) carried on in cooperation with States and municipalities. The 3DEP program will review the entire proposed funding package (both applicant partners and BAA funding partners) to assure that the USGS % does not exceed 50%. Note that this law limits the USGS contribution to the project but does not limit the total contribution by the federal government. Multiple federal agencies may contribute to a project and collectively these federal agencies may contribute greater than 50%. Contracting procedures require that this law be cited in the BAA. This should not be construed as an offer from 3DEP to fund 50% of a proposed project. Again, the greater the applicant's cost share, the greater the score for this factor in the evaluation and the greater the likelihood that the proposal will be selected.

2. Cooperative Agreements: State and Local Contributions

For State / Local applicants proposing Cooperative Agreements: Pursuant to CFR § 200.306, State and local applicants requesting an award in the form of a cooperative agreement must contribute a minimum of 25% State and/or local funds to their cost share. Federal partners are welcome participants in State / local applications but their contributions may not represent more than 75% of the cost share. For example if a State and/or local applicant is proposing a total cost share of \$100,000, a minimum of \$25,000 of those funds must come from State and /or local funding sources. Federal and Non-Federal contributions to the cost-share are specified in the grants.gov application package.

C. Post-Employment Conflicts of Interest

There are certain post-employment restrictions on former Federal officers and employees, including special government employees (Section 207 of Title 18, U.S.C.). If a prospective applicant believes a conflict of interest may exist, the situation should be emailed to the Contracting Officer, prior to expending time and effort in preparing a proposal.

V. APPLICATION AND SUBMISSION INFORMATION

A. ***Application Submission***

a) Geospatial Products and Services (GPSC) Proposals

Acquisition proposals (for projects to be contracted through the USGS GPSC) must be submitted electronically to the Contracting Officer Vickie Floyd at gs_baa@usgs.gov.

Applicants should complete and submit Attachment A: BAA Proposal Submission Tool and Attachment E: Applicant Validation of Funding Partners. These forms are also available for download at: <http://nationalmap.gov/3DEP/BAAReferenceMaterials.html>. For acquisition proposals these are the only submissions required. The tool submission includes a vector GIS file defining the location and coverage area of your project. Your project area must be represented by a polygon in shapefile or KML/KMZ format.

b) Financial Assistance (cooperative agreements) Proposals

Financial assistance (cooperative agreements) proposals (for projects being acquired through the applicant's contract) must be submitted electronically through the grants.gov portal. To apply through the grants.gov portal, go to <http://www.grants.gov/apply>. A grant application package is available for download through the portal under CFDA number 15.817 National Geospatial Program: Building the National Map/Funding Opportunity Number G16AS00121.

Documents and Forms to submit:

- Standard Form 424 Application for Federal Assistance
- Standard Form 424A Budget Information Non-Construction Programs
- Standard Form 424B Assurances Non-Construction Programs
- Proposal narrative – Mandatory (Proposal Submission Tool)
 - Cooperative Agreement applicants should complete and submit Attachment A: BAA Proposal Submission Tool and as appropriate Attachment E: Validation of Funding Partners for proposal submission. These documents are also available for download at: <http://nationalmap.gov/3DEP/BAAReferenceMaterials.html>. For applicants submitting through grants.gov these documents constitutes the narrative portion of the application and must be included **as part** of your application package
 - Narrative includes a vector GIS file defining the location and coverage area of

your project. Your project area must be represented by a polygon in shapefile or KML/KMZ format.

- Detailed budget breakdown – Optional (May be required)
 - In addition to the application package available through grants.gov, a detailed budget breakdown may be required. The information provided in this document expands on the information provided in the SF-424A and may be required if the proposal is awarded. If your proposal is accepted for award a grant specialist will contact you to obtain detailed information.

NOTE: Prospective grantees (for cooperative agreements) must complete several steps in order to participate in the grants.gov application process. Starting early is extremely important as it may take several weeks to complete the processes necessary to submit an application through the portal.

B. Format and Content of Proposals

Applicants should complete and submit Attachment A: BAA Proposal Submission Tool and as appropriate Attachment E: Validation of Funding Partners for proposal submission. These documents are also available for download at: <http://nationalmap.gov/3DEP/BAAREferenceMaterials.html>. For acquisition proposals (projects to be contracted through the USGS GPSC) these is the only document required. For applicants submitting through grants.gov these documents constitutes the narrative portion of the application and must be included as part of your application package.

The applicant is asked to provide detailed information related to:

- Contact Information
- Project Summary
- Project synopsis (short succinct) suitable for publication in list of BAA awards
- Geographic Extent of Project*
- A vector GIS file (polygon in shapefile or KML/KMZ format) defining the location and coverage area of your project*
- Project Timeline
- Data Specifications and Data Deliverables
- Technical Approach
- Project Finances
- Funding Partners
- Past Performance

*The submission tool is designed to be used for a single geographic area. Applicants must submit a separate proposal for each distinct project area they wish to be considered. Each submission will be evaluated against the criteria identified in VII A.

C. *Submission Dates and Times*

Proposals for lidar acquisition are due by 5:00PM ET on 10 October 2016. The email subject line should contain the following: State, Last name of primary applicant, BAA Number G16PS00711- proposal (VASmithG16PS00711P).

D. *Late Submission and Withdrawal of a Proposal*

Applicants are responsible for submitting electronic proposals so as to reach the Government office designated in this BAA by the time specified. If the electronic submittals are received after the exact time and date specified for receipt of offers, it is considered “late” and will not be reviewed as part of the initial awards process. Proposals may be withdrawn by written notice received at any time. Withdrawals are effective upon receipt of notice by the Contracting Officer.

The BAA will remain open and proposals received after the initial due date will be considered for review until 30 September 2017 or until such time as the BAA is cancelled through an amendment or another BAA is issued; additional selections will be made depending on availability of funding and evaluation of proposals consistent with the evaluation criteria provided herein.

VI. PROPOSAL REVIEW INFORMATION

A. *Criteria*

1. Project location
 - a) Preference will be given to geographic areas with no lidar coverage
 - b) Secondary preference will be given to geographic areas with existing data where
 - (1) Data are more than 8 years old
 - (2) Data Quality Level is QL3 (QL4 or QL5) data
 - (3) Significant changes to the landscape have occurred and are documented in the proposal.
2. Areal extent

- a) 3DEP prefers projects between 1,500 and 5,000 square miles.
 - (1) Within this range, preference is given to larger projects
 - b) Projects outside of this range may be considered
 - (1) To fill in gaps in coverage
 - (2) For projects that represent significant cost share by the applicant
3. Geographic overlap with areas represented on Attachment B: 3DEP FY17 Federal Areas of Interest or geographic overlap with the agency specific FY17 High Priority Areas for Data Acquisition represented in attachment C
- a) General preference is given to projects that overlap identified Federal areas of interest (Attachment B)
 - b) 3DEP Federal funding partners (agencies represented in Attachment C) may give additional preference to projects that overlap their individual agency requirements
4. Project Cost and Cost Share (funds contributed by applicant)
- a) In FY17 3DEP is using the average figure of \$255.00 per square mile (QL2) to estimate the cost of lidar data acquisition over the United States. This average cost includes data acquisition, processing and 3DEP quality assurance/quality control. **It is important to note that as this is an average cost, in some geographic areas of the country the price will be higher, and for some the cost to acquire the data will be lower.** Applicants may choose to use the \$255 figure to estimate their project cost or alternately they may provide another cost estimate together with an explanation of how the cost estimate was derived to enable an evaluation of the proposed project costs. The USGS will complete an independent review during the evaluation period to determine if the proposed cost estimates reflect valid industry cost for the specific geographic area and reflect a good value to the government. In addition to the acquisition cost, applicants utilizing the GPSC contracts will be subject to a 5% assessment on the value of their contribution. This assessment covers the cost of contract management. The total cost of the project will include the acquisition cost plus the assessment.
 - b) Preference is given to applicants that offer larger contributions to the total cost of their project
5. Maturity of applicant's proposal and (maturity of) designated funding

sources

a) Applicant is required to provide validation of all funding partners listed in their proposal via Appendix E: Applicant Validation of Funding Partners.

6. Technical Approach

a) Projects making use of the GPSC as the acquisition mechanism receive full score for technical approach

b) Applicants proposing to manage their own contract will be evaluated on the applicant's approach to data acquisition and required project deliverables. All products must meet the minimum 3DEP standards and specifications as defined in Section IID.

7. Past Performance

a) Applicant's history of financial management of projects of similar financial scope

B. Review and Selection Process

Each proposal will be evaluated based on the overall value and benefit to the government based on project location and areal extent of proposed data acquisition, cost realism (cost per square mile for defined geographic area) and cost share (funds contributed by applicant), maturity of applicant's proposal and designated funding, technical approach and past performance as applicable and related to the subject of this BAA. All things being equal the USGS prefers projects that will be acquired through the GPSC because it is a standardized process that ensures data quality and standardized product and service development. As stated in II C.1.a), the USGS expects to allocate approximately 80% or more of the available funding to projects proposing to use the GPSC.

C. Evaluation Factors

The most important factors are project location, geographic overlap with areas identified by Federal agencies as areas of interest for lidar acquisition, project cost and cost share (funds contributed by applicants) and technical approach. These factors are equally valued. Secondary factors include areal extent and maturity of applicant's proposal and (maturity of) designated funding sources. Past performance is the factor with the least weight.

VIII. AGENCY CONTACTS

Interested parties are encouraged to submit comments or questions via email to Vickie Floyd at gs_baa@usgs.gov and include BAA G16PS00711 in the subject line. Comments or questions submitted should be concise and reference the relevant part and paragraph of the BAA. All questions and answers will be posted publically via an announcement to the Federal Business Opportunities website under the BAA number. Please take caution when submitting questions containing proprietary or sensitive information.

IX. GENERAL INFORMATION

A. Marking of Proposals and Disclosure of Proprietary Information Outside the Government

The proposal submitted in response to this BAA may contain technical and other data that the applicant does not want disclosed to the public or used by the Government for any purpose other than evaluation of the white paper. Public release of information in any proposal submitted will be subject to existing statutory and regulatory requirements. If proprietary information which constitutes a trade secret, proprietary commercial or financial information, confidential personal information, or data affecting the national security, is provided by the applicant in a proposal, it will be treated in confidence, to the extent permitted by law, provided that the following legend appears and is completed on the front of any proposal documentation submitted to the Government: *“For any purpose other than to evaluate the proposal, this data shall not be disclosed outside the Government and shall not be duplicated, used, or disclosed in whole or in part, provided that if an award is made to the applicant as a result of or in connection with the submission of this data, the Government shall have the right to duplicate, use or disclose the data to the extent provided in the agreement. This restriction does not limit the right of the Government to use information contained in the data if it is obtained from another source without restriction. The data subject to this restriction is contained in page(s) _____ of this proposal.”* Any other legend may be unacceptable to the Government and may constitute grounds for removing the proposal from further consideration without assuming any liability for inadvertent disclosure. The Government will limit dissemination of properly marked information to within official channels. In addition, the pages indicated as restricted must be marked with the following legend: *“Use or disclosure of the proposed data on lines specifically identified by asterisk (*) are subject to the restriction on the front page of this proposal.”*

The Government assumes no liability for disclosure or use of unmarked data and may use

or disclose such data for any purpose.

By submission of a proposal, the applicant understands that proprietary information may be disclosed outside the Government for the sole purpose of technical evaluation. The USGS OAG will obtain a written agreement from the evaluator that proprietary information in the proposal will only be used for evaluation purposes and will not be further disclosed or utilized.

B. Disclosure of National BAA Statistics

Understanding the national needs for 3D elevation data allows the USGS and the 3DEP Stakeholder community to define a program that best meets the needs of the nation.

The collective body of work that is submitted to the USGS through the BAA is a critical indicator of the near term geographic priorities, the level of funding that is needed to support these requirements and the resources our partners are in a position to contribute to the acquisition of lidar data and derived products. The USGS will collate and may make publically available collective -proposal statistics to include total funds requested, total square miles requested and a graphic showing all proposed areas of interest (in graphic and shapefile format). Individual applicant information **will not** be associated with these collective statistics.

This information will be used for the purpose of analysis and program development.

C. Government Obligation

Applicants are cautioned that only an appointed Contracting Officer may obligate the Government to the expenditure of funds. Applicants who make financial or other commitments for a research effort in the absence of an actual legal obligation signed by a Contracting Officer do so at their own risk.

D. Prohibition on Contractor Involvement with Terrorist Activities

The applicant acknowledges that U.S. Executive Orders and Laws, including but not limited to Executive Order 13224 and Public Law 107-56, prohibit transactions with, and the provision of resources and support to, individuals and organizations associated with terrorism. It is the legal responsibility of the applicant to ensure compliance with these Executive Orders and Laws.

E. Award Notices

Notification of acceptance of proposals will be emailed to applicants beginning 1 November 2016. Staggered notification of awards is likely as award notifications are dependent upon the availability of Federal funds. Unsuccessful applicants will be notified after all available funding has been expended. Applicants whose proposals are accepted for funding will be contacted by a Contract Specialist before award to discuss additional information required for award. This may include representations and certifications, revised budgets or budget explanations, certificate of current cost or pricing data, and other information as applicable to the proposed award. If your submission proposes the use of the GPSC services, a 3DEP and/or GPSC representative will contact you to begin the Task Order estimation process. During this process, the final funding amount from both your organization and USGS will be determined. The period of performance for the Task Order will also be finalized. A contract or cooperative agreement signed by a Contracting Officer is the authorizing award document.

F. System for Award Management

Successful applicants must be registered in the System for Award Management (www.sam.gov) and have an active DUNS number.

X. ATTACHMENTS

- A. BAA Proposal Submission Tool
- B. 3DEP FY17 Consolidated Federal Areas of Interest for Lidar Data Acquisition
- C. 3DEP Funding Partners FY17 High Priority Areas for Lidar Data Acquisition
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- E. Applicant Validation of Funding Partners