

**UNITED STATES SPECIAL OPERATIONS COMMAND
20.1 Small Business Innovation Research (SBIR)
Direct to Phase II Proposal Submission Instructions**

Introduction:

The United States Special Operations Command (USSOCOM) 20.1 Direct to Phase II proposal submission instructions cover Direct to Phase II proposals only and change/append the Department of Defense (DoD) instructions for Phase II submissions as they apply to USSOCOM Direct to Phase II requirements. All Direct to Phase II proposals must be prepared and submitted through the DoD SBIR/STTR electronic submission site: <https://sbir.defensebusiness.org>.

A thorough reading of the “Department of Defense Small Business Innovation Research (SBIR) Program, SBIR 20.1 Program Broad Agency Announcement (BAA)” prior to reading these USSOCOM instructions is highly recommended. These USSOCOM instructions explain certain unique aspects of the USSOCOM SBIR Program that differ from the DoD Announcement and its instructions. The Offeror is responsible for ensuring that their proposal complies with the requirements in the most current version of these instructions. Prior to submitting your proposal, please review the latest version of these instructions as they are subject to change before the submission deadline.

These USSOCOM instructions explain USSOCOM specific aspects that differ from the DoD Announcement and its instructions.

Table 1: Consolidated SBIR Topic Information

Topic	Technical Volume (Vol 2)	Additional Info. (Vol 5)	Period of Performance	Award Amount
<i>Direct to Phase II</i> SOCOM20-D002	Not to exceed 10 pages not including Feasibility Appendix	15-page PowerPoint	Typically 18 months	Typically \$1,000,000 to \$1,500,000

SBIR Phase II awards may be issued under the authority of 10 United States Code § 2371b as a Prototype Other Transaction Agreement (OTA) rather than a contract under the Federal Acquisition Regulations (FAR). Successful completion of the prototype under an OTA may result in a follow-on production OTA or contract. Firms interested in having an OTA may download the template at <https://www.socom.mil/SOF-ATL/Pages/sbir-20-1.aspx>

Technical Inquiries:

During the Pre-release Period of the DoD SBIR 20.1 Program BAA, all questions must be submitted in writing either by e-mail to sbir@socom.mil or to the online SBIR/STTR Interactive Topic Information System (SITIS). All questions and answers submitted to SITIS will be released to the general public. USSOCOM does not allow inquirers to talk directly or communicate in any other manner to the topic authors (differs from Section 4.15.c. of the DoD SBIR 20.1 Program BAA instructions). **All inquiries must include the topic number in the subject line of the e-mail.**

During the Open Period, follow the instructions in section 4.15.d of the DoD SBIR 20.1 Program BAA Instructions.

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Site visits will not be permitted during the Pre-release and Open Periods of the DoD SBIR 20.1 Program BAA.

Proposal Volumes:

Volume 1: Cover page required per DoD instructions.

Volume 2: Technical Volume

The Technical Volume shall not exceed 10 pages and will include all required items under section 7.0 of the DoD SBIR 20.1 instructions. Any additional pages will be deleted from the proposal prior to evaluation.

Offerors must provide documentation to satisfy the Phase I feasibility requirement as specified in the direct to Phase II topic. The documentation shall be included as a Feasibility Appendix in the technical proposal volume; however, it is not included in the 10-page limit. Offerors are required to provide sufficient information to determine, to the extent possible, the scientific, technical, and commercial merit and feasibility of ideas submitted, and that this work was performed by the Offeror and/or the Principal Investigator. **If the Offeror fails to demonstrate the scientific and technical merit, feasibility, and/or the source of the work, USSOCOM will not continue to evaluate the Offeror's proposal.** Refer to the topic's Phase I description under the Direct to Phase II topic to review the minimum requirements needed to demonstrate feasibility.

The technical proposal shall include a Statement of Work (SOW) with the planned tasks and descriptions to meet the Statement of Objectives (SOO) and Contract Data Requirement Lists (CDRLs) DD Forms 1423. Do not upload the SOO or CDRLs with your proposal. The SOO, CDRLs, and Section K will be provided upon e-mail request sent to sbir@socom.mil or may be downloaded from <https://www.socom.mil/SOF-ATL/Pages/sbir-20-1.aspx>. These are provided to help the Offerors consider the required work/deliverables when developing the proposal. If an Offeror is selected for award, the Offeror will be required to submit a separate non-proprietary SOW with the planned tasks and descriptions from the proposal and all other sections of the SOO to attach to the resulting contract. The SOW attached to the contract shall include no proprietary information, data, or markings.

The identification of foreign national involvement in a USSOCOM SBIR topic is needed to determine if a firm is ineligible for award on a USSOCOM topic that falls within the parameters of the United States Munitions List, Part 121 of the International Traffic in Arms Regulation (ITAR). A firm employing a foreign national(s) (as defined in paragraph 3.5 entitled "Foreign Nationals" of the DoD SBIR 20.1 Announcement) to work on a USSOCOM ITAR topic must possess an export license to receive a SBIR Phase II contract.

Volume 3: Cost Volume

Offerors must complete the cost volume using the Phase II Cost Proposal Form posted on the USSOCOM section of the submission site. Offerors can contact the SBIR Help Desk at SBIRHelpdesk@u.group or 1-800-348-0787 for assistance in obtaining the Cost Proposal Form or may be downloaded from <https://www.socom.mil/SOF-ATL/Pages/sbir-20-1.aspx>. The Cost Proposal information (PDF format) shall be appended to and submitted in Volume 3. Those recommended for award shall submit the original cost proposal in Excel format.

Phase II proposal base cost is typically \$1,000,000 not to exceed \$1,600,000 plus Technical and Business Assistance (TABAs) cost (if applicable) not to exceed \$50,000 over the period of performance.

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USSOCOM may provide TABA funds in Phase II awards to firms to meet up to Cybersecurity Maturity Model Certification (CMMC) Level 3 certification requirements. Draft of the CMMC is located at <https://www.acq.osd.mil/cmmc/draft.html>.

The TABA information must be included in the firm's cost proposal specifically identified as "Discretionary Technical and Business Assistance" and cannot be subject to any profit or fee by the requesting SBIR firm. In addition, the provider of the TABA may not be the requesting firm, an affiliate of the requesting firm, an investor of the requesting firm, or a subcontractor or consultant of the requesting firm otherwise required as part of the paid portion of the research effort (e.g., research partner, consultant, tester, or administrative service provider). Proposed TABA will be evaluated by the USSOCOM SBIR Program office. The proposed amount is in addition to the award amount for Phase II and cannot exceed \$50,000. The firm's proposal must (1) clearly identify the need for assistance (purpose and objective of required assistance); (2) provide details on the provider of the assistance (name and point of contact for performer and unique skills/specific experience to carry out the assistance proposed); and (3) the cost of the required assistance (costs and hours proposed or other details on arrangement that would justify the proposed expense).

Cost proposal information should include the itemized listing (a-h) specified below. The cost proposal information must be at a level of detail that would enable contracting personnel to determine the purpose, necessity, and reasonability of each cost element. The itemized listing may be placed in the "Explanatory Material" section of the on-line Cost Proposal form, or as the last page(s) of the Cost Proposal Upload. The Contracting Officer may request additional information to support cost analysis in accordance with Federal Acquisition Regulation (FAR) 15.404-1(c) if needed.

a. Special Tooling and Test Equipment and Material: The inclusion of equipment and materials will be carefully reviewed relative to need and appropriateness of the work proposed. The purchase of special tooling and test equipment must, in the opinion of the Contracting Officer, be advantageous to the Government and relate directly to the specific effort. They may include such items as innovative instrumentation and/or automatic test equipment.

b. Direct Cost Materials: Justify costs for materials, parts, and supplies with an itemized list that includes item description, part number, quantities, and price.

c. Other Direct Costs: This category of costs includes specialized services such as machining or milling, special testing or analysis, and costs incurred in obtaining temporary use of specialized equipment. Proposals that include leased hardware must provide an adequate lease vs. purchase justification or rationale.

d. Direct Labor: For each individual, include the number of hours, hourly rate, and labor overhead and/or fringe benefits. Identify key personnel by name if possible and labor category.

e. Travel: Travel costs must relate to the needs of the project. Travel must be in accordance with the Federal Travel Regulation (FTR).

1. Per Diem Rates can be obtained at: <http://www.gsa.gov/perdiem>

2. Costs shall be allowable only if the following information is documented –

(i) Date and place (city, town, or other similar designation) of the expenses;

(ii) Purpose of the trip; and

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(iii) Name of person on trip and that person's title or relationship to the contractor.

f. Cost Sharing: Cost sharing is permitted. However, cost sharing is not required, nor will it be an evaluation factor in the consideration of a proposal. Please note that cost share contracts do not allow fees.

g. Subcontracts: Involvement of university or other consultants in the planning and/or research stages of the project may be appropriate. If the Offeror intends such involvement, describe in detail and include information in the cost proposal. The proposed total of all consultant fees, facility leases or usage fees, and other subcontract or purchase agreements may not exceed one-half of the total contract price or cost, unless otherwise approved in writing by the Contracting Officer.

Support subcontract costs with copies of the subcontract agreements. The supporting agreement documents must adequately describe the work to be performed (i.e., cost proposal) or provide a statement of work with a corresponding detailed cost proposal for each planned subcontract.

h. Consultants: Provide a separate agreement letter for each consultant. The letter should briefly state what service or assistance will be provided, the number of hours required and hourly rate.

Volume 4: Company Commercialization Report

Not evaluated by USSOCOM.

Volume 5: Supporting Documents

Potential Offerors shall submit a slide deck not to exceed 15 PowerPoint slides.

Volume 6: Fraud, Waste and Abuse Training

Not required by USSOCOM.

Direct to Phase II Evaluations:

USSOCOM evaluates Direct to Phase II proposals using the evaluation criteria specified in section 8.0 of the DoD 20.1 SBIR Announcement with the following exceptions:

1. Proposals missing technical volume, feasibility appendix, cost volume, or slide deck will not be evaluated.
2. Feasibility determination. The Feasibility Appendix to the Phase II proposal will be evaluated first to determine that the Offerors demonstrated they have completed research and development to establish the feasibility of the proposed Phase II effort based on the criteria outlined in the topic description. **USSOCOM will not continue evaluating the Offeror's related Phase II proposal if it determines that the Offeror failed to demonstrate that feasibility** has been established **or** the Offeror failed to demonstrate work submitted in the feasibility documentation was substantially performed by the Offeror and/or the Principal Investigator. Refer to the Phase I Topic description included in the Direct to Phase II topic to review the minimum requirements that need to be demonstrated in the feasibility documentation.
3. The technical evaluation will utilize the Evaluation Criteria provided in Section 8.0 of the DoD SBIR 20.1 BAA. The Technical Volume and slide deck will be reviewed holistically. The technical evaluation is performed in two parts:

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Part I: The evaluation of the Technical Volume will utilize the Evaluation Criteria provided in Section 8.0 of the DoD SBIR 20.1 BAA. Once the evaluations are completed, all Offerors will be notified as to whether they were selected to present their slide deck portion of their proposal.

Part II: Selected Offerors will receive an invitation to present their slide deck (30-minute presentation time / 30-minute question and answer) to the USSOCOM evaluation team, on 10-11 March 2020 at the SOFWERX facility. All selected firms will be reimbursed \$2,000 to offset presentation costs. This presentation will be evaluated by a panel against the criteria listed under Section 8.0 of the DoD SBIR 20.1 BAA. Notifications of selection/non-selection for Phase II award will be completed within the following five business days.

4. The Cost Volume (Volume3) evaluation:

USSOCOM evaluates Phase II proposals using the evaluation criteria specified in section 8.0 of the DoD 20.1 SBIR Announcement. USSOCOM's Phase II SBIR contracts are typically \$1 million - \$1.5 million. Resulting awards may be a fixed price OTA prototyping agreements and a successful prototype may lead to follow on production. Resulting awards may also be FAR based Cost-Plus Fixed Fee contracts. A Defense Contracts Audit Agency approved accounting system will be required to issue a Cost-Plus Fixed Fee contract.

Additionally, input on technical aspects of the proposals may be solicited by USSOCOM from non-Government consultants and advisors who are bound by appropriate non-disclosure requirements. Non-Government personnel will not establish final assessments of risk, rate, or rank Offeror's proposals. These advisors are expressly prohibited from competing for USSOCOM SBIR awards. All administrative support contractors, consultants, and advisors having access to any proprietary data will certify that they will not disclose any information pertaining to this announcement, including any submission, the identity of any submitters, or any other information relative to this announcement; and shall certify that they have no financial interest in any submission. Submissions and information received in response to this announcement constitutes the Offeror's permission to disclose that information to administrative support contractors and non-Government consultants and advisors.

Selection Notifications:

The Government Contracting Officer notifies the Offeror by e-mail of selection/non-selection for award. The e-mail notification will only be sent to the Corporate Official (Business) identified by the Offeror.

Informal Feedback:

A non-selected Offeror can make a written request, within 30 calendar days of receipt of notification of non-selection, for informal feedback. USSOCOM will provide informal feedback within 30 calendar days of an Offeror's written request rather than a debriefing as specified in paragraph 4.10, entitled "Debriefing," of the DoD SBIR 20.1 Announcement.

USSOCOM SBIR Program Point of Contact:

Inquiries concerning the USSOCOM SBIR Program should be addressed to sbir@socom.mil.

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USSOCOM SBIR 20.1 Direct to Phase II Topic Index

SOCOM20-D002 Human Geography 3D (HG3D) Street View

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USSOCOM SBIR 20.1 Direct to Phase II Topic Descriptions

SOCOM20-D002 TITLE: Human Geography 3D (HG3D) Street View

TECHNOLOGY AREA(S): Battlespace, Human Systems, Information Systems, Sensors

RESEARCH & TECHNOLOGY AREA(S):

ACQUISITION PROGRAM: Program Executive Office - Special Reconnaissance, Surveillance and Exploitation

The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordance with section 5.4.c.(8) of the Announcement.

OBJECTIVE: The objective of this topic is to develop an automation algorithm for extracting 3D geospatial data from crowd-sourced imagery and fusing it with human geography to deliver a street level view of complex terrain in denied areas. Dynamic processing of crowdsourced imagery allows users to obtain near-real-time information about locations, events, people, and places. The open standards nature of this capability will enable greater horizontal integration between Special Operations Forces (SOF) operators, Mission Planners, and partner nations across limited bandwidth tactical environments. The capability will extend SOF reach to rehearse and exercise with tagged imagery based on pre-defined classes that support SOF-unique missions. This geospatial situational awareness enables SOF to pivot quickly to relevant areas to support operations.

DESCRIPTION: USSOCOM is exploring options that provide Special Operations Force operators with a near-real-time 3D street level view of areas from crowd-sourced imagery. The capability to automate extraction of 3D geospatial data from crowd-sourced imagery and fuse the data with human geography will expand mission rehearsal and operations in denied areas. The open standards streaming capability will further enable integration of the crowd-sourced data into handheld devices. The tactical open standard will provide a data format for integration of synthetic intelligence during mission rehearsal and exercise engagements with partner nations.

Operating system key features shall include but not limited to the following:

1. Render crowd-sourced imagery in open standards format(s).
2. Assess the feasibility of combining crowdsourced 3D imagery with other 3D human terrain data.
3. Assess the feasibility of combining crowdsourced 3D imagery with handheld devices.
4. As part of this feasibility study, the offeror shall address all viable overall system design options with respective specifications.

Key Military applications: Imagery, Execution of Tactical Operations, Mission Planning, Tactical System Integration, Mission Command, Sensor Integration
Planning/Action Mission and Command:

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1. Create Common Situational Understanding, Mission Command On-The-Move, Enable Unified Action Partner Collaboration
2. Unify Tactical and Operational Common Operational Picture
3. Create, Communicate, and Rehearse Orders during Exercises
4. Operational Adaptability and Decision-Making

PHASE I: Conduct a feasibility study to assess what is in the art of the possible that satisfies the requirements specified in the above paragraph entitled "Description."

The objective of this USSOCOM Phase I SBIR effort is to conduct and document the results of a thorough feasibility study to investigate what is in the art of the possible within the given trade space that will satisfy a needed technology. The feasibility study should investigate all known options that meet or exceed the minimum performance parameters specified in this write up. It should also address the risks and potential payoffs of the innovative technology options that are investigated and recommend the option that best achieves the objective of this technology pursuit. The funds obligated on the resulting Phase I SBIR contracts are to be used for the sole purpose of conducting a thorough feasibility study using scientific experiments and laboratory studies as necessary. Operational prototypes will not be developed with USSOCOM SBIR funds during Phase I feasibility studies. Operational prototypes developed with other than SBIR funds that are provided at the end of Phase I feasibility studies will not be considered in deciding what firm(s) will be selected for Phase II.

PHASE II: SMALL BUSINESS INNOVATION RESEARCH

PHASE II STATEMENT OF OBJECTIVES FOR HUMAN GEOGRAPHY 3D (HG3D) STREET VIEW

TOPIC SOCOM20-D002

16 September 2019

I. INTERNATIONAL TRAFFIC AND ARMS REGULATION: The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordance with section 5.4.c.(8) of the solicitation.

II. BACKGROUND:

This is a Direct to Phase II Small Business Innovation Research project to prototype a software tool for creating a "Human Geography 3D Street View" from crowd-sourced and commercial geospatial data. The automation tool will fuse high resolution 3D terrain data with human geography and volunteered geographic information such as aerial imagery, photos, point clouds and consolidated meshed data that can be correctly georeferenced to the earth's surface and segmented into appropriate Open Geospatial Consortium (OGC) CDB-compliant data layers.

III. OVERALL OBJECTIVE:

This Phase II project will develop an automation algorithm for extracting 3D geospatial data from crowd-sourced imagery and fusing it with human geography to deliver a street level view of complex terrain in denied or semi-permissive areas. This Statement of Objectives describes the requirements to develop the prototype software capable

of fusing multi-source geographic data into a Human Geography 3D street view to enhance shared situational awareness in areas where data is sparse.

IV. Requirements

A. General: The Contractor shall deliver a prototype software tool for automating the creation of OGC CDB-compliant geospatial data layers from crowd-sourced and commercial geospatial data in non-traditional formats for government testing, evaluation, and demonstration.

1. Detailed Tasks: The Contractor shall design, develop, test, demonstrate, and deliver a software tool capable of: 1) fusing multi-source geographic and non-traditional data into a Human Geography 3D Street View, and 2) segmenting the data into the appropriate OGC CDB compliant data layers.

- a. To stimulate advances in technology and innovation, solutions including reusable code should be considered as well as re-use of open source code and integrations with fielded SOF systems utilizing existing open standards.
- b. To the maximum extent possible, intelligent automation shall be used to improve the algorithms and reduce the need for manual intervention over time.
- c. The desired system will co-register disparate data sources including imagery (both satellite and aerial), FMV, photos, point clouds, human geography data layers, and crowd-sourced or commercial geographic information.
- d. The system must be able to correlate and conflate data at the most accurate coordinate possible with trade-offs for simplicity, accuracy and error estimation. Speed is generally a higher priority than absolute accuracy.
- e. Most of the crowd-sourced and volunteered geographic information has some geo-referencing data to get it close to where the data exists in the real world. The non-traditional data also has good relative accuracy but needs to be georeferenced to existing geospatially accurate, globally correlated data.
- f. Once the fused data is in the correct location, then it needs to be segmented to provide a good Digital Terrain Model (DTM) and Digital Elevation Model (DEM). 3D features must be extracted into OGC CDB-compliant 3D models.
- g. To improve the data for simulation-ready applications such as Unity and Unreal, CDB raster material data and/or multi-spectral or hyper spectral signatures shall be used to improve the segmentation and apply material codes to the polygonal surfaces.
- h. HG3D products shall be optimized for dissemination and operational use on mobile devices using OGC-compliant formats.
- i. Meet a Technology Readiness Level 7 which is defined as “System prototyping demonstration in an operational environment (ground or space): System prototyping demonstration in operational environment. System is at or near scale of the operational system, with most functions available for demonstration and test. Well integrated with collateral and ancillary systems. Limited documentation available.”

2. UNIQUE ITEM IDENTIFICATION: The Contractor shall include the DoD unique item identifications or a DoD recognized unique identification equivalent for the prototypes delivered. This includes a description and cost breakout as applicable. Information on unique item identifier types is at http://www.acq.osd.mil/dpap/UID/uid_types.html. The guide is at <http://www.acq.osd.mil/dpap/UID/guides.htm>. This is in accordance with DFARS 252.211-7003.

3. SHIP TO ADDRESS: The Contractor shall deliver all prototypes systems under this contract to the following address:

USSOCOM SOF AT&L (DoDAAC: F2VUQ0)
Attn: Susan Raymie, PEO SRSE
7701 Tampa Point Blvd.

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MacDill AFB, FL 33621
(813) 826-7486

4. SHIPPING COSTS: The Contractor shall pay all costs to ship all product deliverables to and from the validation testing /demonstration sites and to the final delivery location.

B. DOCUMENT DELIVERABLES: The Contractor shall provide the following documents to the respective specified addresses during the Phase II Period of Performance:

1. Kick-Off/System Requirements Review: See CDRL A001.
2. Monthly Progress Reports: See CDRL A002.
3. Financial Status Report: See CDRL A003.
4. Developmental Test Plan for Performance Validation: See CDRL A004.
5. Developmental Test Report for Performance Validation: See CDRL A005.
6. Business Plans: See CDRL A006.
7. Final Technical Report: See CDRL A007.
8. Preliminary Design Review: See CDRL A008.
9. Critical Design Review: See CDRL A009.

V. TESTS AND DEMONSTRATIONS: The Contractor shall conduct tests, demonstrations and hands-on workshops with users to validate that the prototype software tool meets or exceeds all the requirements specified in this Statement of Objectives. (See CDRL A004 and CDRL A005).

- A. The Contractor shall demonstrate that the prototype software tool meets or exceeds the technical performance requirements above.
- B. The Contractor shall participate in quarterly hands-on workshops with SOF users and incorporate user input received in contractor's development efforts.
- C. Contractor shall support test and evaluation in an operationally realistic environment including a test bed or other location determined by the COR.

VI. ENVIRONMENTAL AND SAFETY: Not applicable

VII. GOVERNMENT FURNISHED PROPERTY (GFP) / GOVERNMENT FURNISHED PROPERTY (GFE) / GOVERNMENT FURNISHED INFORMATION (GFI):

- A. Contractor requests for GFP, GFE or GFI shall be included in the proposal for consideration. Any materials delivered by the government to the contractor shall be listed here.
- B. Government will provide representative data and GFI with Limited Distribution (LIMDIS), For Official Use Only, for development, testing, experimentation, and evaluation. Release of LIMDIS shall be in accordance with 48 CFR Section 252.245.7000, "Government-Furnished Mapping, Charting, and Geodesy Property." All LIMDIS data will be returned to the Government or destroyed during contract close out.

VIII. MEETINGS AND REVIEWS: The Contractor shall attend the following meetings and reviews.

A. Phase II Kick-Off meeting shall be conducted in Tampa, Florida not later than thirty (30) calendar days after contract award. The Contractor shall provide the Government:

1. A Phase II Kick-Off Meeting Read-Ahead no less than ten (10) calendar days prior to the Phase II Kick-Off Meeting / System Requirements Review Meeting (See CDRL A001).

2. An initial Program Management Plan / Financial Status Report for accomplishing all objectives specified in this Statement of Work. (See CDRLs A002 and A003).

3. Conceptual Design Drawings no less than ten (10) calendar days prior to the Phase II Kick-Off/System Requirements Review Meeting (See CDRL A001).

B. Preliminary Design Review (PDR) - This meeting shall be conducted at the Contractor's facility no more than one hundred and eighty (180) calendar days after Phase II contract award. The Contractor shall provide teleconference capability for those participants unable to travel. The Contractor shall provide the Government:

1. A Preliminary Design Review and Materials Read-Ahead Briefing no less than fourteen (14) calendar days prior to the PDR (See CDRL A008).

2. A Detailed Design Report (See CDRL A008).

3. Trade off considerations for the design. (See CDRL A008).

4. Results of any testing to date. (See CDRL A005).

5. Resolution to any Contractor/Government issues or concerns.

6. An assessment of other potential benefits / impacts including total cost of ownership, software data rights, and a recommendation of any changes for consideration / incorporation into the subsequent design that will be provided to the Government at the follow-on Critical Design Review. (See CDRL A008).

C. Critical Design Review (CDR): This teleconference meeting shall be arranged by the Contractor two (2) weeks prior to the end of the contract completion date. The Contractor shall provide the Government:

1. A Critical Design Review and Materials Read-Ahead Briefing no less than fourteen (14) calendar days prior to the CDR (See CDRL A009).

2. A Detailed Design Report (See CDRL A009).

3. Trade off considerations for the design. (See CDRL A009).

4. Results of any testing to date. (See CDRL A005).

5. Resolution to any Contractor/Government issues or concerns.

D. Phase II Close-Out Meeting: The Phase II Close-Out Meeting shall be conducted in Tampa, Florida no earlier than seven (7) calendar days prior to the conclusion of the Phase II Period of Performance. The Contractor shall provide the Government:

1. A briefing on the test verification (See CDRL A005).

2. An update of the progress to date. (See CDRL A002)

3. Resolution to any Contractor/Government issues or concerns.

IX. NOTIFICATION: The Contractor shall notify USSOCOM no less than thirty (30) calendar days prior to tests, demonstrations and reviews at the Contractor's facilities to ensure USSOCOM representatives can attend should

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they desire to do so.

X. TRAVEL REQUIREMENTS: The costs associated with the below travel requirements will be included in a separate Contract Line Item Number as a cost reimbursable expense. The Contractor shall comply with the Federal Acquisition Regulation 31.205-46 (<http://www.gsa.gov/perdiem>) on proposing all travel related costs. The Contractor shall include the costs associated with the following travel requirements in the proposal:

A. Phase II Kick-Off Meeting: Tampa, FL; one (1) overnight, no more than two (2) Contractor representatives.

B. Phase II Close-Out Meeting: Tampa, FL; one (1) overnight, no more than two (2) Contractor representatives.

C. Quarterly Workshops with Users: Tampa, FL, or Fort Bragg, NC; two (2) overnights, no more than two (2) contractor representatives. As part of the Phase II proposal, the Contractor shall include the most expensive trip.

XI. MANDATORY REPORTING:

A. The Contractor shall report ALL contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract for the U.S. Special Operations Commands via a secure data collection site. The Contractor is required to completely fill in all required data fields using the following web address: <http://www.ecmra.mil/>.

B. Reporting inputs will be for the labor executed during the period of performance during each Government fiscal year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year, beginning with 2014. Contractors may direct questions to the help desk at help desk at: <http://www.ecmra.mil/>.

XIII. DISCLOSURE OF UNCLASSIFIED INFORMATION:

A. On September 21, 2001, the Department of Defense designated Headquarters US Special Operations Command (USSOCOM) a sensitive unit, as defined by Title 10 United States Code (USC) Section 552 (10 USC 552). In keeping with this designation, unclassified information related to USSOCOM military technology acquisitions managed by USSOCOM or any of its component commands, will be designated Controlled Unclassified Information (CUI). As such, the contractor hereby unequivocally agrees that it shall not release to anyone outside the Contractor's organization any unclassified information, regardless of medium (e.g., film, tape, document, Contractor's external website, newspaper, magazine, journal, corporate annual report, etc.), pertaining to any part of this contract or any program related to this contract, unless the Contracting Officer has given prior written approval. Furthermore, any release of information which associates USSOCOM, Special Operation Forces (SOF), or any component command with an acquisition program, contractor, or this contract is prohibited unless specifically authorized by USSOCOM.

B. Requests for approval shall identify the specific information to be released, the medium to be used, and the purpose for the release. The Contractor shall submit its request to the Contracting Officer at least 45 days before the proposed date for release for approval. No release of any restricted information shall be made without specific written authorization by the Contracting Officer.

C. The Contractor shall include a similar requirement in each subcontract under this contract. Subcontractors shall submit requests for authorization to release through the prime contractor to the Contracting Officer.

D. The Contractor further understands that Title 18 USC Section 701 specifically prohibits the use of the USSOCOM emblem or logo in any medium (e.g., corporate website, marketing brochure, newspaper, magazine, etc.) unless authorized in writing by USSOCOM. Forward any requests to use the USSOCOM emblem or logo

through the Contracting Officer.

PHASE III DUAL USE APPLICATIONS: This system could be used in a broad range of military applications where SOF and general purpose forces require 3D geospatial data at a street level view of complex terrain in denied areas. This 3D view will allow SOF to exploit tactical data to plan operations, conduct rehearsals, and remotely coordinate actions on the objective with organizations that are not collocated with the ground tactical commander. This capability could also be adopted by first responders, federal law enforcement (Secret Service), and for organizations that require a need to conduct a “walk through” of a specific area prior to execution of a task.

REFERENCES:

1. Special Operations Forces in Unlit Spaces: Understanding the World’s Dark Spots in the Context of SOF Operational Planning, 2014. <https://www.ansa.org/sites/default/files/LWP-101-Special-Operations-Forces-in-Unlit-Spaces-Understanding-the-Worlds-Dark-Spots-in-the-Context-of-SOF-Operational-Planning.pdf>
2. Large-Scale Semantic 3D Reconstruction <http://www.grss-ieee.org/community/technical-committees/data-fusion/data-fusion-contest/>
3. List of Street View Services https://en.wikipedia.org/wiki/List_of_street_view_services
4. Data and Analytics Platform that measures Ground Truth <https://www.premise.com/sentiment-and-surveys/>
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KEYWORDS: Crowd Source, Austere Environment, 3D Data, artificial intelligence, surveillance and reconnaissance, Georeferenced Imagery

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