Request for Solutions:
Beyond 3D
Amendment 2
21 April 2021

1. Purpose and Authority

This request for Solutions (RFS) is seeking vendors for an Other Transaction Authority (OTA) agreement for the National Geospatial-Intelligence Agency (NGA).

The Government will evaluate proposed solutions and may award an Other Transaction Agreement (OTA) to one or multiple vendors, under the Training and Readiness Accelerator (TReX) vehicle, in accordance with 10 U.S. Code § 2371b.

2. Summary and Background

NGA desires advanced technology for further development and application to the NGA community at large for their unique specifications. The Beyond 3D prototype project will use the latest version of the United States Special Operations Command's (USSOCOM) Automating the Rapid Generation of 3D Geospatial Data (RAPID 3D) prototype in order to further advance the prototype for the NGA user community. The Beyond 3D prototype project will continue to advance the USSOCOM Rapid 3D work to NGA holdings within the NGA cloud system architecture to include scalability as well as additional Application Program Interfaces (APIs) and/or Software Development Kits (SDKs) to allow for seamless integration within the Department of Defense (DoD) and Intelligence Communities (IC). Scalability to provide a geospatial big data architecture that supports both command and control (C2) and modeling and simulation (M&S) users requires the ability to serve up geo-specific real-world content, in a rapid fashion to the user communities. The desired system will transform and conflate source from multiple sensors into an environment that supports machine to machine automation to accelerate processing, exploitation, and dissemination and the generation of Open Geospatial Consortium (OGC) Common Database (CDB) compliant databases. The environment will be capable of integrating applications, data, systems and services planned to be transitioned to modern commercial technologies and streaming updated information to tactical users in real time without degradation of services. For new capabilities and tools, the same objectives noted in the Rapid 3D prototypes applies to include new solutions development for low Training Readiness Levels (TRLs), in a rapid fashion, to achieve a TRL 8 over the next 24 months.

Delivered solutions will include the addressing of several capability gaps to include API/SDK development, metric tools, automated workflow pipelines and integration of NGA holdings as part of the 3D content production and access for and to others within the NGA specific cloud networks. These objectives include extension of USSOCOM Rapid 3D efforts as well as new feature extraction tools, new metric tools to include quality, pipeline processing and versioning control, user profile needs integration and an OGC pilot for NGA's Office of Geomatics for standards based interoperability as well as serving the "best" content based upon a user's Area of Interest (AOI) choice(s). For all software delivered for these objectives, the developer will provide all code, test and accreditation documentation, software build instructions and source code required to meet DoD System Requirements Specifications for accredited software.

For the Automation algorithms, the developer will need to consider the following:

- Develop M&S automation algorithms, APIs, and/or SDKs for 3D integration mission needs for unclassified, secret and JWICS environments
- Deliver the algorithms in a rapid iterative fashion with phasing to support government priorities for test and evaluation, user assessment, interoperability experimentation, and initial deployment.
- Translation APIs/SDKs for conflation and geospatial intelligence (GEOINT) 3D formats shall have minimal third-party dependencies, simple user interface (UI), and execute with the least amount of user interaction possible.
- Users must have the ability to interface with a 2D map to draw a bounding box or rubber band style delineation of their area of operation and select the desired mission output at the desired level of detail
- Translation APIs/SDKs with NGA's Foundation GEOINT in 3D (FG3D) cloud architecture, web UI, USSOCOM's Geospatial Services, Joint Staff's Terrain Generation Service and other Government UI's.

This project is directly relevant to enhancing the mission effectiveness of special operations forces personnel along with other relevant government communities. It will enhance several areas that are currently key technology gaps to include process automation, source agnostic 3D content generation, rapid generation, and available in a format (size) that is usable for disadvantaged operators at the tactical edge.

Delivered solutions will be part of the Beyond 3D prototype project composed of five (5) objectives:

1. NGA's Cloud Based Environment
2. Geo-registration and co-registration
3. Rapid 3D enhancements & automation
4. Tool expansion
5. Metrics

Deliverables (hardware, software, reports, etc.) will be determined during final Statement of Work (SOW) collaborations with selected offerors, prior to award. Vendors are also asked to provide a follow-on ROM for deployment sustainment described in Section 9.

3. General Information

3.1 Vendors interested in responding to this RFS must be members of the Training and Readiness Accelerator (TReX). Information about membership can be found at the following webpage: https://nstxl.org/membership/

3.2 The cost of preparing and submitting a response is not considered an allowable direct charge to any Government contract or agreement.

3.3 An individual vendor may not submit more than one comprehensive response for each objective on this RFS as a Prime. A vendor may participate as a subcontractor to multiple responses.

3.4 Non-compliance with the submission instructions provided herein may preclude the vendor from being considered for award.

3.5 All Government participants and advisors in the evaluation process will be required to sign non-disclosure agreements (NDAs).

4.0 Government Furnished Information (GFI) / Government Furnished Property (GFP)

4.1. The Government will make available Attachment 10, Beyond 3D Requirements Table, for use during Solution preparation. In order to obtain the documentation, the vendor shall submit a request in writing to INITIATIVES@NSTXL.ORG, with “Beyond 3D Prototype” used in the subject line.

4.2. The GFI (Attachment 10) contains the Distribution C statement and requires the vendor to be vetted prior to obtaining the GFI. The vendor is required to complete the Vendor Self Vetting Form (Attachment 8) along with completing and signing the GFI Tech Data Distribution Agreement (Attachment 7) which includes further guidance regarding the handling of the GFI. Upon approval, the vendor will be provided the GFI (Attachment 10). In addition, the Government intends to provide additional GFI to the awardee within 15 days after award of agreement.

4.3. Furthermore, vendors must provide a list of all Government Furnished Information (GFI) / Government Furnished Equipment (GFE) that the vendor believes is critical to enable development and demonstration of prototype. The Government cannot guarantee that all GFI / GFE requests can/will be accommodated.

OPERATIONS SECURITY

There are no known Operations Security requirements. This effort is non-classified.

5.0 Solution Paper Responses

Solution Paper responses shall include a combined Technical and Price volume. Responses shall be submitted in an editable/executable (not scanned) Word/Adobe PDF format and limited to no more than 20 standard size (8 ½” X 11”) pages for the total volume count, if submitting a solution for all objectives, and no more than 4 pages per objective if submitting a partial solution, using standard 12-point Arial font. Charts or figures are not bound by the 12-point font requirement but shall be clearly legible. Page size of 11”X17” are allowed for charts or figures only and each page will be counted towards the page limit. If the solution exceeds the page limitation, the Government may choose not to read any information exceeding the page limit and the information may not be included in the evaluation the solution. The Cover Page, Table of Contents, Sub-Vendor List, Government Desired Rights in Technical Data and Computer Software, OCI & Mitigation Plan, FOCI documentation, List of Figures, Integrated Master Schedule (IMS), CWBS, Delivery Schedule, Pricing Breakdown, BOEs, GFI List, Section 889-Telecommunications and Representations, Acronym Definitions, and Traceability Matrices do not count towards the page count limit. All PDF’s will be editable (not locked).

The following shall be included within the Technical and Pricing Volume:

- Cover Page
- Nontraditional status
- Foreign Owned, Controlled or Influenced (FOCI) status
- Organizational Conflicts of Interest and Mitigation Plans
- Sub-Vendor List
- Vendor Experience
- Solution Paper
- Government Desired Rights in Technical Data and Computer Software
- Anticipated Delivery Schedule
- Pricing Breakdown
- Basis of Estimate (BOEs) for the entire effort
- Integrated Master Schedule (IMS) for the entire effort

5.1 Cover Page
The cover page shall include the vendor's name, Commercial and Government Entity (CAGE) Code (if available), NAICS Code, Business Size, address, primary point of contact, and status of U.S. ownership. NAICS code for this effort is 541512.

Nontraditional Status
The vendor shall provide its nontraditional (see paragraph 5.1.2.1. for definition) business status or its ability to meet the eligibility requirements of 10 U.S.C. §2371b. The vendor shall check **one** of the following boxes – with appropriate justification if needed.

- There is at least one nontraditional defense contractor or nonprofit research institution participation to a significant extent in the project.
- All significant participants in the transaction other than the Federal Government are small businesses or nontraditional defense contractors.
- At least one third of the total cost of the project is to be provided by sources other than the Federal Government.

If the vendor is not a nontraditional defense contractor (NDC) additional information is needed. Vendor shall provide the name and CAGE code information for the NDC. Additionally, the vendor shall provide what portion of the work the NDC is performing and an explanation of how the prototype would not succeed based on the portion of work performed by the NDC.

5.1.1. Definition of Nontraditional – an entity that is not currently performing and has not performed, for at least one-year period preceding the solicitation of sources by the Department of Defense (DoD) for the procurement or transaction, any contract or subcontract for the DoD that is subject to full coverage under the cost accounting standards prescribed pursuant to 41 U.S.C §1502 and the regulations implementing such section.

5.1.2. Foreign Ownership, Control or Interest (FOCI) Status
In accordance with RFS Attachment 3, Security Process for Vendor Vetting, the solution must include certification that the vendor (and subcontractor(s)) are not Foreign Owned or under USA FOCI status (and are not in merger or purchasing discussions for a Foreign

company or USA FOCI Company). Should a prospective vendor be unable to so certify, they will be ineligible for award unless the mitigating circumstances in Attachment 3 Security Process for Vendor Vetting are met. In such a case, these mitigating circumstances shall be detailed.

5.1.3. Organizational Conflicts of Interest and Mitigation Plan
Vendors will submit an Organizational Conflict of Interest (OCI) Mitigation Plan via an appendix. In the event there are no real or perceived OCIs, simply state so and annotate what actions would be taken in the event that one is realized.

5.1.4. Sub-Vendor List
Vendor shall provide a list of all sub-vendors involved and their role within the performance of your submission as an appendix. The list shall include FOCI status and OCI.

5.1.5. Vendor Experience
Vendor shall describe their company's recent and relevant previous experiences developing modeling and simulation systems similar to the required work of this prototype project. Projects worked in the last three years are considered recent.

5.2. Solution Paper
Solution Paper responses shall include the vendor's proposed technical solution describing the approach, feasibility and technical risks and mitigation solutions identified in fulfilling the Project Technical Objectives and associated deliverables identified below. The approach shall clearly address planned documentation deliverables (including format and content) and any planned demonstrations, design reviews (including product line quality factors such as agility and reuse), feasibility of implementation, total project risk, and management reviews.

5.2.1 Technical Objectives
The objectives for the Beyond 3D effort, which are noted below, continue forward with the USSOCOM's Rapid 3D efforts. All objectives will be developed on the unclassified networks and will be deployed to include other directed NGA Government networks as well. It is envisioned that these objectives will be developed in an agile nature with demonstration of meeting the objectives at the end of each sprint cycle and prior to deployment within the NGA cloud based, open architecture framework. NGA anticipates a period of performance of nine (9) months with four (4), 12-month options.

OBJECTIVE 1: NGA's CLOUD BASED ENVIRONMENT

Enhanced processing using NGA's cloud environments will provide a more optimal way to process correlated 3D scene visualization products to reduce production time and optimize deployment. The desired systems would reduce cloud-based transactions and file count for imagery and production of 3D content; reduced input/output (I/O) transfer to clients; speed on-demand creation of imagery tiles or selected source files using cloud-based methodologies, accelerated methods; and maintain compliance with OGC specifications including OGC CDB in order to support legacy systems.

OBJECTIVE 2: GEO-REGISTRATION & CO-REGISTRATION

Geo-registration will develop a means to centrally manage enormous amounts of 3D geospatial data. The desired system will co-register disparate and multiple data sources including imagery (both satellite and aerial), full motion video (FMV), photos, point clouds, vectors, rasters and user-generated content. The system must be able to correlate and conflate data at the most accurate coordinate possible with trade-offs for simplicity, accuracy, confidence level, metadata and error estimation.

OBJECTIVE 3: RAPID 3D ENHANCEMENTS & AUTOMATION

The purpose of this objective is to enhance and extend the existing USSOCOM RAPID 3D prototypes for the NGA user community. These objectives include scalability to provide a geospatial big data architecture that supports both C2 and M&S within an open-architecture, cloud-based environment. The desired system will transform source content from multiple sensors, existing content, and updated content into and from an environment that supports machine-to-machine automation to accelerate processing, exploitation, and dissemination. This content will support modeling and simulation formats from NGA holdings to the user requested supported formats such as 3D tiles, game engines, etc., which is also compliant with CDB standards. The open architecture environment will be capable of integrating applications, data, systems and services using modern commercial technologies. User requests for modeling and simulation content requested from NGA will allow for updates to tactical users in real time without degradation of services.

OBJECTIVE 4: TOOL EXPANSION

Objective 4 focuses on the tools which will need to be developed to support additional imagery sources for 3D content production, metrics assessments for by products for derived 3D modeling and simulation processes and processing, data fusion, data conflation, incorporation of existing NGA research toolsets, and SDK's/API's for users to be able to visualize, disseminate, construct, and access NGA's 3D modeling and simulation and ODS holdings. These tools will be implemented seamlessly into the existing NGA 3D workflow processing pipeline for 3D modeling and simulation to include co-production of such content.

OBJECTIVE 5: METRICS

The purpose of this objective is metrics assessment tools for by products for derived 3D modeling and simulation processes and processing to include source data, feature extraction, and subsequent 2D and 3D modeling and simulation products resulting from such processing. Metrics assessment tools will be used to update the end-to-end processing pipelines and workflows for the "best of breed" feature extraction and other types of algorithms utilized to produce the modeling and simulation content.

For more detailed information regarding requirements, refer to Attachment 1, Beyond 3D Requirements Document.

The following identifies NGA's intent for each of the objective areas:

a. Government's objective is to complete all initial prototypes, in an agile fashion, within 24 months with continued iteration based on operational feedback by beta users and success in meeting the Beyond 3D technical objectives. However,

objectives will be heavily influenced by individual solutions proposed. The Government's intent is for the Other Transaction Agreement(s) OTA(s) issued in accordance with this PAA to be firm fixed price with clearly defined milestones.

b. The agreement(s) will provide a mutually agreed to plan between the Government and the developer to deliver the capability incrementally as outlined within the developer's solution.

c. Developers shall include their anticipated milestone schedule for delivery of their solution(s) in an agile fashion using DI2E tool suite. These deliveries will include documentation, source code, executable code as needed to support incorporation into the NGA unclassified, and classified systems. For capabilities and/or concepts that require additional development, those objectives and timeframes should be explicitly stated.

NGA anticipates working with the selected vendor(s) to determine how each of these steps will be implemented and executed for the best possible outcome for the success of the project.

5.3 Government Desired Data Rights, Intellectual Property and Planned Terms and Conditions:

NGA intends to maintain and modify system(s) developed or delivered under any OT awarded in accordance with this PAA using Government personnel and third-party contractors.

NGA intends to stimulate advances in technology and innovation through open-source software. Reusable and open-source software submitted as part of a proposed solution is subject to the applicable open-source license.

NGA desires not less than Government Purpose Rights in all technical data (including computer software documentation) and computer software developed under any OT associated with this effort, for, at most, a five-year period. The five-year period, or such other period as may be negotiated, will commence upon execution of the OT that required development of the technical data (including computer software documentation) and computer software. Upon expiration of the five-year (or other negotiated period), NGA desires unlimited rights in the technical data (including computer software documentation) and computer software.

The Government's rights in technical data (including computer software documentation) and computer software, shall not interfere with the vendors' rights in such technical data and computer software, including the right to license others.

In its proposal, the vendor for any OT awarded in accordance with this RFS shall analyze feasible non-proprietary solutions and incorporate such solutions into its proposed solution when practicable. This preference for non-proprietary solutions applies to any technical data (including computer software documentation) and computer software developed or delivered under the OT. The vendor shall clearly state all assumptions made during development of its proposal.

The vendor shall provide a data rights assertion table, attachment 4, for all technical data (including computer software documentation) and computer software to be developed or delivered under the OTA. The data rights assertion table shall identify at the lowest segregable level the technical data (including computer software documentation) and computer software to be developed or delivered under the OT, the vendor's assertion as to the government's rights in each item of technical data (including computer software documentation) and computer software, the basis for such assertion, and the name of the person asserting any restrictions.

For any technical data (including computer software documentation) or computer software in which the vendor asserts NGA will have less than Government purpose rights, the vendor shall provide the open source, commercial, or other license it asserts is applicable. If additional pages are needed, data rights assertions and applicable licenses may be submitted as an appendix, which has no page limit and does not count against the proposed technical solution page limitation.

Further, NGA desires that vendors provide pricing to acquire Government Purpose Rights in any technical data (including computer software documentation) or computer software not developed under the OT, to be delivered with limited or restricted rights. Any OT issued in accordance with this RFS shall include an option to purchase such Government Purpose Rights upon successful delivery of the prototype.

All technical data (including computer software documentation) and computer software developed under this effort shall be marked with the appropriate marking in accordance with DoDI 5320.24, Distribution Statements on Technical Documents. For any technical data (including computer software documentation) and computer software delivered with Government purpose rights or greater, the appropriate marking will generally be "DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors (reason) (date of determination). Other requests for this document shall be referred to PEO STRI."

6.0 RFS RESPONSE INSTRUCTIONS

6.1 The Government intends to make one or more OT awards as a result of the RFS.

6.2 All questions related to this RFS shall be submitted utilizing the Vendor Questions Form provided in Attachment 3. Questions must be submitted via email to initiatives@nstxl.org, with "Beyond 3D Prototype Vendor Questions" in the subject line.

6.3. Questions must be submitted no later than 12:00 PM ET on 14 April 2021. Questions received after the deadline may not be answered. Questions shall not include proprietary data as the Government reserves the right to post submitted questions and answers, as necessary (and appropriate) to facilitate vendor solution responses.

6.3.1. The Government reserves the right to post submitted questions and answers, as necessary (and appropriate) to facilitate vendor Solution Paper responses. Submitted questions will be posted without identifying company names.

6.4. Solution Responses shall be submitted no later than 12:00 PM ET on 28 May 2021. Solution Responses shall be submitted electronically to initiatives@nstxl.org, with "Beyond 3D Prototype" used in the subject line. Any submissions received after this time on this date may be rejected as late and not considered.

6.4.1. Vendors must clearly state assumptions made within their response. Vendors are encouraged to challenge any Government assumptions or restrictive requirements in its individual solution and should articulate any major discrepancies between the RFS and Attachments, and its technical solution. Should a vendor's solution require a change in policy and/or statue, the vendor shall outline within their technical solution, and describe why the change is needed to realize the benefit of the vendor's prototype (and potential production).

7 Evaluation and Selection Process

7.1 Vendors are required to submit a written Solution Paper. Written solution responses will be evaluated with consideration given to the vendor's ability to provide a clear description of the proposed solution, the overall technical merit of the response, and the total project risk with consideration aimed at the Objectives, Technical and Pricing Volume. The proposed schedule, and Intellectual Property and Data Rights will also be considered as aspects of the entire response when weighing risk and reward.

7.2 The Government will evaluate the degree to which the submission provides a thorough, flexible, and sound approach in response to the ability to fulfill the requirements.

7.3 Interested vendors are requested to provide proposed solutions outlining their:

- Technical Merit – The vendor's technical analysis and design approach to carry out the project requirements.
- The vendor's demonstrated experience in designing, developing, prototyping, and producing modeling and simulation tools, capabilities, supporting cloud- based infrastructure and systems that can automatically ingest, produce, store, deliver modeling and simulation content and platforms, working with various interfacing subsystems, and ability to support test and assessment of modeling and simulation products at DoD/IC facilities.
- Feasibility of Implementation - Clear, concise, and well-developed solution with streamlined approach of being implemented into the Beyond 3D capabilities, ease of adapting final design prototype solution for reuse in various DoD and IC variants.
- Management Capabilities to include: Team composition/personnel and sub-vendor involvement, integration/prototyping capabilities, digital engineering capabilities to include model-based systems engineering, software assurance capabilities, software continuous integration/continuous deployment capabilities, and facilities.
- An IMS for the entire effort

7.4 For each technical objective, a proposed manning level containing labor categories

and direct labor hours broken down per month and tied to the IMS with an accompanying BOE for the labor-hours.

7.5 Pricing

Vendors shall submit a fixed price amount price for its solution, further divided into severable milestones. The Government is not dictating a specific price mechanism. However, proposed payments should be linked to clearly definable, detailed milestones in each phase. It should be clear, with sufficient detail, what is being delivered at each milestone. The vendor's pricing milestones may vary from the defined decision points, depending on the proposed solution. Milestones should be established and priced in a manner that prohibits milestone efforts from being worked concurrently. Each milestone price should reflect the anticipated value the Government will receive toward accomplishment of the OTA goals and objectives at the time the milestone is completed. The price section has no page number limitation. Additionally, a Contractor Work Breakdown Structure (CWBS) shall be provided for the entire effort.

7.6 ROM

Vendors shall provide a ROM pricing for potential follow-on production activities as described in Section 9: Follow-on Production. Please note, the Follow-On ROM will assist in future planning efforts for potential follow-on efforts. The Follow–On ROM is not part of the evaluation.

7.7 Selection Process

The Government anticipates awarding one or more OTs for this prototype project, through TReX, to the vendor(s) that propose a solution that best satisfies the Government's objectives.

The Government reserves the right to award to a vendor that does not meet all of the requirements but provides attributes or partial solutions of value.

The Government will review each vendor's submittal against the Objectives outlined in Section 5.2.1 and make an award to the vendor whose solution is determined to be the most advantageous to the Government in terms of overall technical merit, solution feasibility, and total project risk with considerations for price, schedule, and data rights assertions.

The assessment of risk is subjective. If the risk is evident or the schedule seems overly aggressive, the Government will consider that in the total risk assessment. Vendors are responsible for identifying risks within their submissions, as well as providing specific mitigation solutions. If sufficient validation of the proposed information is not provided, the Government may reject the submission.

Unsupported assertions will be discounted by the evaluators.

In making the final decision, it may become necessary to compare the proposals of each vendor against the other. Still, the Government anticipates that its decision is more likely to be made based on each vendor's submittal as evaluated against the criteria described

above and a determination of which proposal is determined to be the most advantageous to the Government.

The proposed project price, delivery schedule, and data rights assertions will also be considered as aspects of the entire response when weighing risk and award. Further, the Government will evaluate the degree to which the proposed concept provides an innovative, unique – yet realistic and sustainable - approach to meeting the Beyond 3D objectives.

Responses will be evaluated by Government personnel with SETA personnel acting as advisors. All non-Government advisors will only have access to the information corresponding to their area(s) of expertise. Advisors will not have access to the price information of the response.

The following companies will have non-Government personnel advising:

Compass, Inc.
465A Carlisle Drive
Herndon, VA 201705616
Cage Code: 3VLV5

8 Additional Information

8.1 Export Controls

Research findings and technology developments arising from the resulting proposed solution may constitute a significant enhancement to the national defense and to the economic vitality of the United States. As such, in the conduct of all work related to this effort, the recipient will comply strictly with the International Traffic in Arms Regulation (22 C.F.R. §§ 120-130), the National Industrial Security Program Operating Manual (DoD 5220.22-M) and the Department of Commerce Export Regulation (15 C.F.R. §§ 730-774).

8.2 Interaction and/or Disclosure with Foreign Country/Foreign National Personnel

The Vendor should comply with foreign disclosure processes described in US Army Regulation (AR) 380-10, Foreign Disclosure and Contacts with Foreign Representatives; Department of Defense Directive (DoDD) 5230.11, Disclosure of Classified Military Information to Foreign Governments and International Organizations; and DoDD 5230.20, Visits and Assignments of Foreign Nationals.

8.3 By submitting a response, respondents shall certify whether covered telecommunications equipment or services **will or will not** be included as a part of its offered products or services to the Government in the performance of this effort. RFS Attachment 9 includes additional detail regarding the representation which must be signed and returned with any submissions.

8.4 All submissions will be unclassified. Submissions containing data that is not to be disclosed to the public for any purpose or used by the Government except for evaluation purposes will include the following sentences on the cover page:

"This submission includes data that will not be disclosed outside the Government, except to non-Government personnel for evaluation purposes, and will not be duplicated, used, or disclosed -- in whole or in part -- for any purpose other than to evaluate this submission. If, however, an agreement is awarded to this Company as a result of -- or in connection with – the submission of this data, the Government will have the right to duplicate, use, or disclose the data to the extent agreed upon by both parties in the resulting agreement. This restriction does not limit the Government's right to use information contained in this data if it is obtained from another source without restriction. The data subject to this restriction are contained in sheets [insert numbers or other identification of sheets]"

8.5 Each restricted data sheet should be marked as follows:
"Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this submission."

9 Sustainment and Follow-on Activities

It is anticipated that one or more OTs will be issued. Iterative prototyping is anticipated after the initial period of performance. Further prototyping will likely require the system to connect to USG classified and/or unclassified networks as well as transmit classified and unclassified information

Upon successful completion of the prototype(s), the NGA anticipates deploying this solution across multiple domains which, along with the actual installation, may require some level of life cycle maintenance to sustain prototype capabilities. Follow-on activities may include system and software updates, life cycle maintenance, evolving training requirements and technology insertion.

The Government will seek pricing data for life cycle maintenance as part of the RFS to sustain prototype capabilities during the duration of the effort. If feasibility, military utility, and a training readiness level (TRL) of 8 is acquired at the end of the period of performance, the NGA will seek a follow-on contract to ensure maintenance of the prototype(s) to facilitate seamless transition if feasibility and military utility is determined.

Vendors who submit solution(s) to the Beyond 3D RFS will be asked to provide a ROM that reflects the potential life cycle maintenance of the submitted solution(s) during the Beyond 3D period of performance. Further development and sustainment may be required beyond the period of performance.

10 Attachments:

To support the Beyond 3D prototype project RFS, the following documents will be provided. Each document will be marked and protected accordingly to support

distribution and storage. This may include the vetting of vendors, in accordance with establish Government policy and procedures, prior to distribution.

Attachment 1, Beyond 3D Requirements Document
Attachment 2, Security Process for Vetting Contractors
Attachment 3, Questions Form
Attachment 4, Data Rights Assertions Tables
Attachment 5, Data Rights License Terms and Definitions
Attachment 6, Terms and Conditions and EULA
Attachment 7, GFI Tech Data Distribution Agreement
Attachment 8, Vendor Self Vetting Form
Attachment 9, Section 889, Telecommunications and Representation
Attachment 10, Beyond 3D Requirements Table (Distro C)