2021 Lead Covered Agency
NGDA Theme Annual Performance Report
and Self-Assessment

for
Geodetic Control Theme

Geospatial Data Act of 2018
Section USC 43 Sec 2805(b)(3) Requirements

February 4, 2022
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Introduction
The Geospatial Data Act of 2018 (GDA) was signed into law on October 5, 2018. The GDA was included as a component of the FAA Reauthorization Act (H.R. 302, P.L. 115-254). The GDA is now in U.S. Code, Title 43 – Public Lands, Chapter 46: GEOSPATIAL DATA.

The GDA Section 2805(b)(3)(E)(I) requires performance reports to be submitted to the Federal Geographic Data Committee (FGDC) that document “the activities relating to and implementation of the National Geospatial Data Asset [NGDA] data theme, including progress in achieving the requirements under subparagraphs (A), (B), (C), and (D)” of Section 2805(b)(3).

This 2021 Lead Covered Agency NGDA Theme Annual Performance Report (LCA NGDA Theme Report) covers the period of October 1, 2020 through Fiscal Year (FY) 2021, September 30, 2021 and uses agency self-assessments for this report to the FGDC. Reports will be developed annually and will span one fiscal year period. Lead covered agencies will ensure that one consolidated report per NGDA theme is submitted to FGDC. This report will include a rating for each responsibility of "meets expectations," "made progress toward expectations," or "fails to meet expectations," as required by the GDA. A report template and survey were developed to facilitate consistent self-assessments and consolidated reports. As per the GDA, a summary and evaluation of the progress to achieve the requirements will be generated by FGDC and will be provided to the National Geospatial Advisory Committee (NGAC) for comment. Summary reports with NGAC comments and other required reports and information will be available online via the FGDC GDA pages.

The revised Circular A-16 is currently in development for release by the Office of Management and Budget (OMB) and is intended to provide guidance and direction for the FGDC on management of the GDA requirements. Following the release of the updated OMB Circular A-16, the FGDC anticipates conducting a review of its governance structure, including its working groups and subcommittees, to ensure that they support the needs of FGDC agencies and have the proper resources and structure to meet the requirements for facilitating agencies’ work to meet requirements of the GDA.

This 2021 NGDA Theme LCA annual performance report template uses the GDA definition for NGDA data theme as the foundation for reporting compliance for the data within the theme. From the GDA definitions, NGDA data theme “means the NGDA core geospatial datasets (including electronic records and coordinates) relating to a topic or subject designated under Section 2805.” FGDC anticipates that future enhancements to the reporting process will include a mechanism to gather information at the dataset level which can then be reported at the theme and agency level to provide a greater level of granularity for annual reporting and better management of the NGDA Portfolio.

The focus of this report will be to document both the ongoing processes, procedures, and actions within agencies that manage the NGDA datasets, and the FGDC activities underway for identifying common definitions and approaches for meeting the requirements for plans and actions identified in the GDA.
Executive Summary

This report is the result of continued efforts across the FGDC and the NGDA theme community to evaluate the requirements of the GDA in the context of the goals and objectives of the National Spatial Data Infrastructure (NSDI) Strategic Plan 2021-2024. The report is meant to highlight an emerging understanding of these requirements, communicate the steps that FGDC is undertaking to ensure governance processes are in place that build on the accomplishments to date, and lay out an approach for collaboratively moving forward. Communication of the necessary actions and next steps across the FGDC is the cornerstone of this report.

This annual performance report documents progress made in meeting GDA requirements since the initial, baseline, report was submitted in 2020. This second annual report for the Geodetic Control Theme provides insights into both ongoing, cross-cutting FGDC portfolio management, and agency and theme-specific activities that align with GDA requirements.

FGDC agencies, in coordination with the FGDC Office of the Secretariat (OS), provided leadership and input for GDA requirements analysis as part of ongoing theme strategic planning and implementation activities. Progress made by all NGDA themes for this reporting cycle centers on two key GDA requirements – geospatial data standards and establishing a plan for nationwide population of the NGDA data themes (or core datasets). The collaborative efforts included development of two briefing papers outlining the issues, benefits, challenges, and recommended actions for advancing each requirement. The anticipated outcomes, with FGDC Steering Committee approval, will include formation of two task teams to further evaluate the respective GDA requirements, establish a collaborative approach with government and nongovernment leaders, partners, and stakeholders, and develop recommendations for FGDC on required governance, technical guidance, and actions.

Theme-related information gathered during the 2020 LCA reporting process will also be used to support GDA requirements for geospatial data standards and nationwide population of the data theme. The reported information included participation in FGDC Subcommittees and Working Groups, National and International voluntary consensus standards bodies, International geospatial Working Groups supporting standards, other activities undertaken by agencies to support standards, and theme partners and partnership programs. FGDC will analyze the information collected and the existing GeoPlatform Theme Community content to determine how best to redesign the theme pages to host the relevant information.

Prior to the enactment of the GDA, the FGDC conducted Lifecycle Maturity Assessments (LMA) based on the A-16 Supplemental Guidance Stages of the Geospatial Lifecycle. As described in the FY2020 LCA NGDA Theme Reports, these assessments were conducted in 2015 and 2017 and resultant Theme LMA Summary Reports and Dashboards were made available online through GeoPlatform.gov. While the LMA process was put on hold following the enactment of the GDA, it is seen as a key component moving forward. Following the release of the updated OMB Circular A-16, the FGDC will analyze that guidance and evaluate the LMA process for adoption and use to capture the lifecycle information from agencies and dataset managers. The LMA process could be used to dynamically augment these GDA annual reports and will also be analyzed as part of developing and implementing the plan for nationwide population of the NGDA data themes (core datasets).
This report has been developed using an NGDA Theme Lead consensus-driven report template that provides consistent reporting across all NGDA Themes.

Official Theme Related Information

As per the OMB Circular A-16 Supplemental Guidance, official theme related information includes designated points of contact for NGDA Portfolio management, including Theme Leads and Executive Champions, and the official list of NGDA datasets. As further described in the sections below, this information is maintained on the GeoPlatform NGDA Portfolio Community site.

NGDA Theme Points of Contact

Reference: USC 43 Sec 2805(b)(3)(E)(i)

Section 2805(b)(3)(E)(i) requires lead covered agencies to “designate a point of contact within the lead covered agency who shall be responsible for developing, maintaining, coordination relating to, and disseminating data using the GeoPlatform” as part of administering the NGDA theme.

In accordance with the current OMB Circular A-16 Supplemental Guidance, NGDA theme personnel play an ongoing, vital role in the operation and maintenance of a theme. They are individuals who provide interdepartmental leadership and coordination at the NGDA theme level and work with NGDA dataset managers to facilitate, among other things, portfolio development including activities associated with standards and guidance.

Traditionally, these roles have been coordinated through lead covered agencies with the FGDC Office of the Secretariat and the NGDA theme lead assuming a majority of NGDA theme responsibilities. Transitioning to meet specific GDA responsibilities provides opportunities for lead covered agencies to designate specific points of contact to coordinate an expanding portfolio of datasets across the NGDA theme and for greater dissemination of data through the GeoPlatform.

Theme and agency points of contact provided in Table 1 below are maintained to meet requirements from the A-16 Supplemental Guidance Roles and Responsibilities. This information is kept up-to-date in the NGDA Portfolio Community on NGDA Theme Leads and NGDA Executive Theme Champions pages.

<table>
<thead>
<tr>
<th>Geodetic Control Theme Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theme Lead(s): Daniel Roman, U.S. Department of Commerce, National Oceanic and Atmospheric Administration</td>
</tr>
<tr>
<td>Executive Theme Champion(s): Juliana Blackwell, U.S. Department of Commerce, National Oceanic and Atmospheric Administration</td>
</tr>
</tbody>
</table>

Table 1. Theme and Lead Covered Agency Points of Contact Involved in Theme Management.

NGDA Theme Portfolio Datasets

The NGDA datasets and the agencies listed in Table 2 are provided as the official list of NGDA that currently populate the Geodetic Control Theme. If the theme includes NGDA datasets managed by non-covered agencies, they are shown in bold. Support for GDA requirements by these non-covered agencies is very important to the success of the themes. The official list of NGDA Portfolio Datasets is maintained on the GeoPlatform and is provided here filtered by the Geodetic Control Theme. Each
NGDA dataset also has a unique value assigned, called an NGDAID, that allows the dataset to be tracked throughout its lifecycle.

<table>
<thead>
<tr>
<th>NGDAID</th>
<th>Geodetic Control Theme NGDA Datasets</th>
<th>Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>48</td>
<td>National Geospatial Data Asset (NGDA) NOAA Continuously Operating Reference Stations (CORS) Network</td>
<td>U.S. Department of Commerce, National Oceanic and Atmospheric Administration</td>
</tr>
<tr>
<td>50</td>
<td>Geoid Height and Deflections of the Vertical Models - National Geospatial Data Asset (NGDA) Geoid Models</td>
<td>U.S. Department of Commerce, National Oceanic and Atmospheric Administration</td>
</tr>
</tbody>
</table>

Table 2. Theme NGDA Datasets.

Meeting General Responsibilities – USC 43 Sec 2805(b)(2)

Reference: [USC 43 Sec 2805(b)(2)]

Q1. How is the Lead Covered Agency(ies) participating in ensuring the coordinated management of the Theme? (Select all that apply - see Appendix A for complete list of optional responses)

- Lead Agency, or Co-Lead Agencies, have published a geospatial strategy as required by the GDA
- Theme Lead(s) attend NGDA Theme Community Meetings
- Theme Lead(s) participate in GDA Working Group meetings
- Theme Lead(s) review the outcomes from GDA Working Group meetings and provide feedback on approaches for GDA compliance
- Theme Lead(s) coordinate GDA compliance activities with Theme personnel
- Theme Lead(s) communicate new and ongoing Portfolio Management activities and priorities with Dataset Managers in the Theme
- Steering Committee members coordinate with the Theme
- **Other:** Theme Champion and Theme Lead hold meetings of Federal Geodetic Control Subcommittee on annual basis to involve other US Agencies.

Managing Theme-Related Content on GeoPlatform

The baseline 2020 LCA NGDA Theme Report gathered theme specific information in a series of tables to reflect compliance with the GDA requirements. This content was captured to describe agency efforts that can be used moving forward to support development of the plans required by the GDA. As continued progress towards meeting requirements of the GDA, the NGDA theme community will evaluate redesign of theme community sites to allow agencies to provide current information to the public and stakeholders related to theme management.
### A. Geospatial Data Standards

| GDA Requirement | USC 43 Sec 2805(b)(3)(A) — Provide leadership and facilitate the development and implementation of geospatial data standards for the National Geospatial Data Asset data theme, with a particular emphasis on a data content standard for the National Geospatial Data Asset data theme, including by—  
  i. assessing existing standards;  
  ii. identifying anticipated or needed data standards; and  
  iii. developing a plan to originate and implement needed standards with relevant community and international practices—  
  I. in accordance with Office of Management and Budget Circular A– 119, or any successor thereto; and  
  II. consistent with or as a part of the plan described in subparagraph (B); |

| Lead Covered Agency Self-Assessment | Made Progress Toward Expectations |

| Key to Self-Assessment | FGDC agencies continue work to evaluate options for establishing a common understanding and approach to meeting GDA requirements. The FGDC Steering Committee has the Briefing Paper – Reestablishing the FGDC Standards Process 8-4-21 under consideration. The paper outlines a path forward for reestablishing a resourced and sustainable standards process that will be compliant with the GDA and responsibilities for managing standards. This work provides a foundation for designating “Made progress toward expectations” for all themes the FY2021 reporting year. Response options included:  
  • Fails to Meet Expectations  
  • Made Progress Toward Expectations  
  • Meets Expectations |

**Reference:** [USC 43 Sec 2805(b)(3)(A)]

### Meeting Requirements for Geospatial Data Standards

This section of the GDA calls on the FGDC agencies to provide leadership and facilitate the development and implementation of geospatial data standards and outlines activities that include development of a plan to originate and implement needed standards with relevant community and international practices in accordance with OMB Circular A-119 and consistent with, or as part of the plan that will be established to meet subparagraph (B) requirements.

On August 11, 2021, the FGDC Steering Committee was presented for their consideration and approval the Briefing Paper – Reestablishing the FGDC Standards Process 8-4-21 which outlined the need for reestablishing an FGDC standards process and included a Draft Position Statement (provided below). The paper states that an updated standards process will guide the FGDC agencies in their assessment, development, vetting, and approval of draft standards through the FGDC governance and endorsement steps (for both FGDC developed internal and FGDC endorsed external standards), and follow-on
maintenance and update steps. The standards process should also address FGDC representation and participation in other standards bodies and the administrative support required to manage and maintain the FGDC’s standards inventory, web pages, and process documentation.

The briefing paper provided a set of short-term actions that include approval of the position statement and for FGDC to establish a task team to evaluate and recommend a path forward for reestablishing a resourced and sustainable standards process.

The FGDC Draft Position Statement:

The Geospatial Data Act of 2018 (GDA) establishes the Federal Geographic Data Committee (FGDC) as the lead entity in the executive branch of government for the development, implementation, and review of policies, practices, and standards relating to geospatial data. The GDA describes responsibilities related to geospatial standards for the FGDC and the agencies covered by the law (covered agencies). These responsibilities are reinforced by Office of Management and Budget Circular A-16. The covered agencies are responsible for geospatial related standards development, coordination, approval, implementation, and use. The FGDC is determining how to reestablish and resource a sustainable standards process, implement supporting governance requirements, update and improve legacy processes, and begin establishing standards as required under the GDA. Agencies should continue, to the extent possible in lieu of an active standards process, to develop, review, update, and implement existing and pending standards, and become members of the appropriate FGDC standards body when it becomes active.

A document providing the longer-term tasks and outcomes expected of the team is now under development as requested by the Steering Committee and includes:

- Evaluate FGDC and agency geospatial standards requirements in associated laws and policies
- Review legacy FGDC standards policies and procedures and recommend establishing, updating, or retiring them
- Evaluate and recommend a process for FGDC to establish standards as per the GDA and for evaluation of the NGDA baseline standards inventory, which includes currently endorsed FGDC standards, that will result in the list of standards in use across FGDC
- Evaluate opportunities to leverage work or recommendations from other existing standards bodies
- Evaluate governance requirements for managing standards and recommend necessary changes to the FGDC governance structure.
- Develop recommendations for resourcing a sustainable FGDC standards governance process

FY2020 Report Follow up

The FY2020 reports provided information on the FGDC subcommittees and working groups, national and international voluntary consensus standards bodies, the international geospatial organizations supporting standards and other activities that support standards for the data within the theme. This information will be evaluated for inclusion in the redesign of the FGDC theme community sites.
Highlighting FGDC Agency Efforts to Support NGDA Data Standards

The FGDC agencies with responsibilities for managing NGDA themes and datasets have developed the following questions to highlight on-going agency efforts to support standards for the NGDA portfolio datasets.

**QA.1. Are there activities ongoing that you would like to highlight regarding development, modification, or establishment of standards for any of the data within the Theme?**

**Clarifying Text:** This question provides agencies and dataset managers an opportunity to highlight significant efforts which are ongoing and may facilitate the work of any standards task team established as described above. Please consider agency work to evaluate or develop standards or work that has been completed and has resulted in standards that are ready to be endorsed, or established, under Section 2806. (Ongoing agency work would include a review or assessment of existing national and international standards, assessment for meeting user needs, and other work that meets the requirements of the GDA.)

- Yes

Please identify all the NGDA datasets for which you would like to provide information on work to support standards.

- National Geospatial Data Asset (NGDA) Continuously Operating Reference Stations (CORS)
- Geodetic Control Information on Passive Marks: Horizontal and Vertical Geodetic Control Data for the United States - National Geospatial Data Asset (NGDA) Geodetic Control Information on Passive Marks
- Geoid Height and Deflections of the Vertical Models - National Geospatial Data Asset (NGDA) Geoid Models

Next, please provide a brief description of work you would like to highlight that supports standards, including citations and resource links as necessary.


The DOC established a Standards Users Group under the Commerce Geospatial Working Group to
ensure that all aspects of the NGDA datasets are in compliance. The Theme Lead and Dataset Managers are active participants in these DOC working groups to ensure vertical integration and compliance with standards. As an example, a requirement for Digital Object Identifiers (DOI’s) for various geospatial datasets (including the four for this theme) was established as an accepted international standard. The DOC is working to develop a mechanism for creating and attaching DOI’s to geospatial datasets. The Theme Lead and other DOC staff have been active in seeking the establishment of these DOI’s and pursuing a successful strategy for this being led by the NOAA Environmental Data Management Committee (EDMC) DOI Task Team.

DOC staff are active in assisting the FGDC in development and refinement of the GDA reporting requirements including development of this form. This better ensures that the Theme is actively involved and integrated into standards efforts across the DOC and Government.

**QA.2. Please check all the activities that have been taken to establish, develop, or modify standards for data within the theme** (select all that apply and use the “other” textbox to briefly describe additional activities):

- Reviewed ISO metadata collection tools
- Reviewed conformance assessment procedures with assistance from existing standards bodies
- Maintain active licenses for all standards (where applicable)
- Agency established processes for standards management
- Agency examined comparable international standards for suitability with NGDA data set
- Agency examined comparable FGDC endorsed standards for suitability with NGDA data set
- Agency examined comparable open-source standards for applicability to NGDA data set
- Agency developed comparable agency-specific standards to apply to NGDA data set
- Theme analyzed related international/FGDC/open-source/agency-specific standards to identify components to modify or adapt into specific NGDA data set standard
- Theme analyzed related international/FGDC/open-source/agency-specific standards to identify components to incorporate into a new specific NGDA data set standard
- Theme established an appropriate subject-matter expert committee to develop a new standard to meet agency-specific/FGDC/international needs for the NGDA data set
- Theme initiated the agency-specific/FGDC/international standard creation process for the NGDA data set

**QA.3. Brief Summary (Limit 5,000 characters, or approximately 1.5 pages): Please provide a brief description of FY2021 actions and accomplishments in addressing Section 2805(b)(3)(A).**

**Clarifying Text:** Please ensure that the Brief Summary comments you submit this year highlight efforts that agencies are engaged in at the dataset or agency level that relate to GDA requirements, including involvement in and accomplishments of groups in support of NGDA data, such as:

- FGDC subcommittees and working groups
- Agency working groups and partner efforts
- National and international voluntary consensus standards bodies
- International geospatial organizations supporting standards
- Other activities that support standards
The Theme Champion serves as the Chair for the Federal Geodetic Control Subcommittee (FGCS). The FGCS held an annual meeting to update other Agencies regarding standards, guidelines and procedures related to the collection, analysis and use of their geospatial data with respect to the National Spatial Reference System. Several subordinate working groups focus on the data and related standards associated with the four NGDA datasets in the theme.

The standards associated with these datasets are primarily derived from internationally accepted standards groups adopted for use by the US Standards organizations (ANSI). DOC staff actively participated in these international and national organizations to ensure that NGDA datasets remain compliant with these internationally accepted standards and that any standards under development would meet US needs for geospatial data. In the International Organization for Standardization Technical Committee 211 [ISO TC211] (https://committee.iso.org/home/tc211), DOC staff ensured that US geospatial reference systems were maintained in conformance with standards during monthly meetings and semi-annual plenary meetings. DOC staff were active in the Advisory Group 12 - the Geodetic Registry, which is the official, global repository for geodetic reference frames and datums. DOC staff met twice monthly for the Open Geospatial Consortium [OGC] (https://www.ogc.org/) Working Groups for Deformation Modeling and Gridded Geodetic Data eXchange format (GGXF) to help develop new standards related to geodetic data. The CORS NGDA dataset is collected and archived in conformance with standards set by the International Association of Geodesy [IAG] (https://www.iag-aig.org/) of which DOC staff act as an analysis center for active geodetic control. Finally, ISO and OGC standards are adopted in the US nationally by the American National Standards Institution [ANSI] (https://www.ansi.org/) to which DOC staff are collaterally assigned in conjunction with their international assignments.

Additionally, DOC staff participate in other international groups that affect policy and governance related to standards including:
2. United Nations Subcommittee on Geodesy (https://www.unggrf.org/)
3. UN-GGIM regional committee for the Americas (https://ggim.un.org/)
4. UN-GGIM regional committee for Asia/Pacific (https://www.un-ggim-ap.org/)
6. AmeriGEO (https://www.amerigeoss.org/)
7. PanAmerican Institute of Geography and History (https://www.ipgh.org/)
9. International Federation of Surveyors (https://www.fig.net/)
10. Pacific Geospatial and Surveying Council (https://pgsc.gem.spc.int/)
B. Nationwide Population of the Data Theme

<table>
<thead>
<tr>
<th>GDA Requirement</th>
<th>USC 43 Sec 2805(b)(3)(B) – provide leadership and facilitate the development and implementation of a plan for nationwide population of the National Geospatial Data Asset data theme, which shall —</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(i) include developing partnership programs with States, Indian tribes, institutions of higher education, private sector entities, other Federal agencies, and local governments;</td>
</tr>
<tr>
<td></td>
<td>(ii) meet the needs of users of geospatial data;</td>
</tr>
<tr>
<td></td>
<td>(iii) address human and financial resource needs;</td>
</tr>
<tr>
<td></td>
<td>(iv) identify needs relating to standards, metadata for geospatial data within the National Geospatial Data Asset data theme, and the GeoPlatform; and</td>
</tr>
<tr>
<td></td>
<td>(v) expedite the development of necessary National Geospatial Data Asset data themes;</td>
</tr>
<tr>
<td>Lead Covered Agency Self-Assessment</td>
<td>Made Progress Toward Expectations</td>
</tr>
<tr>
<td>Key to Self-Assessment</td>
<td>FGDC agencies continue work to evaluate options for establishing a common understanding and approach to meeting GDA requirements. A briefing paper, described in this section, is being developed for FGDC Steering Committee consideration. It outlines a path forward for engaging partners and stakeholders regarding nationwide population of data and establishing common practices that can be used to advance the NSDI, the goals and objectives of the NSDI Strategic Plan, and meet requirements of the GDA and other legislation. This work provides a foundation for designating “Made progress toward expectations” for all themes the FY2021 reporting year. Response options included:</td>
</tr>
<tr>
<td></td>
<td>• Fails to Meet Expectations</td>
</tr>
<tr>
<td></td>
<td>• Made Progress Toward Expectations</td>
</tr>
<tr>
<td></td>
<td>• Meets Expectations</td>
</tr>
</tbody>
</table>

Reference: USC 43 Sec 2805(b)(3)(B)

Meeting Requirements for Nationwide Population of NGDA Datasets

This section of the GDA calls on the FGDC agencies to, “provide leadership and facilitate the development and implementation of a plan for nationwide population of the National Geospatial Data Asset data theme.” Using the GDA definition of NGDA data theme, the required plans would focus on nationwide population of the core datasets within the theme and include the work to expedite development of necessary core datasets.

FGDC agencies manage NGDA core datasets and other geospatial data to meet mission requirements and to address priority needs of the agency and the nation. There are multiple examples of ongoing agency efforts to establish partnerships, conduct requirements and user needs analysis, identify options
for appropriate human and financial resourcing, and identify needs relating to standards for NGDA datasets in support of nationwide population of priority geospatial datasets.

To support development of a common approach for meeting GDA and other legislative requirements and address the goals and objectives of the NSDI Strategic Plan 2021-2024, a briefing paper has been developed for consideration by the FGDC Steering Committee. The briefing paper proposes that FGDC engage the NGAC to provide advice and recommendations for federal and non-federal partners and stakeholders regarding nationwide population of data and establishing common practices that can be used to advance the NSDI.

The briefing paper documents the need for establishing common approaches and a common understanding of what constitutes “nationwide population of datasets;” a methodology for identifying datasets that should be considered for nationwide population and a means to prioritize those efforts; and a process for identifying data that requires integration with government and nongovernment data or those that only require national coverage of federal data.

As FGDC agencies continue to develop common approaches for meeting requirements for geospatial data management, they will be incorporated into the reporting process. This FY2021 report highlights ongoing efforts that support these requirements. The information gathered here will be available for further evaluation of processes and activities across FGDC agencies that can be used as best practices and established in guidance and governance documents.

**FY2020 Report Follow up**

The information on theme partners and partnership programs supporting data within the theme reported as part of the FY2020 Reports will be evaluated for inclusion in the redesign of the FGDC theme community sites.

**Highlighting Key Examples of FGDC Agency Efforts to Support Plans for Nationwide Population of NGDA Datasets**

The following suite of questions was established to highlight ongoing agency efforts to support nationwide population of the NGDA portfolio datasets. FGDC anticipates using this information moving forward as work continues to identify and establish best practices to develop common approaches.

**QB.1. Are there activities ongoing that you would like to highlight that support nationwide population of NGDA datasets within the Theme, or efforts that support any of the elements included in this requirement?**

- Yes

**QB.1a. Are there existing or planned partnership programs with a wide range of stakeholders supporting NGDA datasets within the Theme that you would like to highlight?**

- Yes
Please identify all the NGDA datasets for which you would like to provide information related to partnership activities.

- National Geospatial Data Asset (NGDA) Continuously Operating Reference Stations (CORS)
- Geodetic Control Information on Passive Marks: Horizontal and Vertical Geodetic Control Data for the United States - National Geospatial Data Asset (NGDA) Geodetic Control Information on Passive Marks
- Geoid Height and Deflections of the Vertical Models - National Geospatial Data Asset (NGDA) Geoid Models

Next, please provide a brief description of partnership with citations and resource links as necessary.

Airborne gravity is primarily collected by the Agency. However, commercial operators and other US Agencies do also collaborate. In particular, the National Geospatial Intelligence Agency (NGA) has a great deal of interest in these data. An MOA has been recently renewed. Data have been collected over adjacent countries (Mexico and Canada) in collaboration with their geodetic control counterparts.

As a part of a public-private partnership, the NOAA CORS Network (NCN) data are largely provided by over 140 outside groups. These groups include State and local governments, academic groups, other US Agencies, etc. These data are amassed and vetted by DOC staff and passed through to NASA and on to the International Association of Geodesy for development of global geodetic products tied to the International Terrestrial Reference System. DOC Staff also work with counterparts in all countries of the Americas to develop a regional reference frame for geospatial data and to develop consistent standards for implementation of data (SIRGAS). They work more closely with counterparts in Canada to produce a common reference frame for all of North America.

An active program exists where stakeholders collect observations on DOC geodetic control on passive marks. These users pay for their own collection and upload their data to the DOC website in order to develop improved models for geodetic transformation and reduce errors in modeling for the modernization of the National Spatial Reference System. These volunteers are drawn from primary stakeholders in the surveying community including those from the National Society for Professional Surveyors and the American Association of Geodetic Surveyors.

Geoid models are developed in conjunction with counterparts in neighboring countries (Canada and Mexico) with input from Nations in the Caribbean and Central America regions. Cooperation occurs more broadly with other Nations of the Americas.
QB.1b. Are processes, or plans for processes, in place to meet the needs of users? Note that Section 2805(b)(3)(D) of this report covers efforts to collect and analyze user needs and incorporation of those needs into agency strategies. However, you may include the information on those efforts in your response for this question.

Clarifying Text: If no formal process exists, but information on summits, training events, or other activities that supported the collection or understanding of user needs may be included.

- Yes

Please identify all the NGDA datasets for which you would like to provide information on efforts to meet user needs.

- National Geospatial Data Asset (NGDA) Continuously Operating Reference Stations (CORS)
- Geodetic Control Information on Passive Marks: Horizontal and Vertical Geodetic Control Data for the United States - National Geospatial Data Asset (NGDA) Geodetic Control Information on Passive Marks
- Geoid Height and Deflections of the Vertical Models - National Geospatial Data Asset (NGDA) Geoid Models

Next, please provide a brief description of efforts to meet user needs, including citations and resource links as necessary.

All four NGDA’s maintain availability through Geoplatform and also on well-established DOC-specific websites. Tools have been developed to provide access to the data and outreach and training is conducted for stakeholders. A Products and Services Committee reviews new and existing offerings to ensure that they meet the needs of stakeholders. This includes the four NGDA datasets.

Airborne gravity data have a narrower constituency than the others. It is primarily used by the DOC Geoid NGDA but has been downloaded and used by various research groups. It is of interest to NGA and some other Agencies. Relevant metadata and data are made available.

The NOAA CORS Network provides archived data directly and through NCEI. A number of tools (web based and download) provide users access. DOC Staff are tasked with analyzing the NCN data to provide integrity for active geodetic control. The results of their analyses are available for outside users relying on DOC staff for quality control.

Geodetic Control on passive marks is made available through "Datasheets," which are developed from the actively maintained database. Significant customer service is provided to those requiring such datasheets. DOC Staff assist and finalize new submissions of geodetic control from stakeholders. This also includes review and quality control of primary and secondary airport control stations for the FAA.

Geoid Height models are utilized in a number of other programs to convert NCN-derived observations to physical heights.
QB.1c. Are there existing or planned program and data management plans in place that address human and financial resource needs?

- Yes

Please identify all the NGDA datasets for which you would like to provide information on efforts to address human and financial resource needs.

- National Geospatial Data Asset (NGDA) Continuously Operating Reference Stations (CORS)
- Geodetic Control Information on Passive Marks: Horizontal and Vertical Geodetic Control Data for the United States - National Geospatial Data Asset (NGDA) Geodetic Control Information on Passive Marks
- Geoid Height and Deflections of the Vertical Models - National Geospatial Data Asset (NGDA) Geoid Models

Next, please provide a brief description of efforts to meet financial and human resource needs, including citations and resource links as necessary (Limit 5,000 characters, approximately 800 words).

For the CORS dataset, there are two socioeconomic surveys:
(1) 2009 Leveson (https://www.ngs.noaa.gov/PUBS_LIB/Socio-EconomicBenefitsofCORSandGRAV-D.pdf)

For the GRAV-D dataset, there are two socioeconomic surveys:
(1) CORS and GRAV-D 2009 Leveson (https://www.ngs.noaa.gov/PUBS_LIB/Socio-EconomicBenefitsofCORSandGRAV-D.pdf)

For all four NGDA datasets;
(1) the National Geodetic Survey Strategic Human Resource Plan (SHRP) to develop human resources plan - currently being refined based on emergent requirements
(2) Advanced Degree Program - theme focused research tied to NSRS/NGDA datasets. Send DOC Staff members back to college for advanced training in a specialty that will meet staffing needs.

QB.1d. Are processes, or plans for processes, in place to identify needs related to standards?

- Yes
Please identify all the NGDA datasets for which you would like to provide information on needs related to standards.

- National Geospatial Data Asset (NGDA) Continuously Operating Reference Stations (CORS)
- Geodetic Control Information on Passive Marks: Horizontal and Vertical Geodetic Control Data for the United States - National Geospatial Data Asset (NGDA) Geodetic Control Information on Passive Marks
- Geoid Height and Deflections of the Vertical Models - National Geospatial Data Asset (NGDA) Geoid Models

Next, please provide a brief description of efforts to identify needs related to standards, including citations and resource links as necessary.

The Theme related Strategic Plan has been tied to the DOC Strategy documents. In turn, the Action plans related to NOAA CORS Network (CORS Comprehensive Plan) and airborne gravity (GRAV-D Plan) are tied to the Theme Strategic Plan as are various Blueprint documents that clarify the process. DOC Staff are also a part of international efforts within the various standards bodies (ISO TC211, OGC) to ensure that NGDA data sets meet existing standards and to improve the international standards during periodic review processes through consensus (ISO). In some cases, new standards are being developed collaboratively (OGC). Conversely, DOC staff are working with other Agencies to assist them in developing requirements to meet geospatial standards to adhere to the NSRS. This latter effort seeks to unify the disparate geospatial reference systems used by others into a single system to aid interoperability.

QB.1e. Are there any other processes in place that support nationwide population of data sets (e.g., data quality control processes that cover data collected by external stakeholders)?

- Yes

Please identify all the NGDA datasets for which you would like to provide additional information related to nationwide population of data.

- National Geospatial Data Asset (NGDA) Continuously Operating Reference Stations (CORS)
- Geodetic Control Information on Passive Marks: Horizontal and Vertical Geodetic Control Data for the United States - National Geospatial Data Asset (NGDA) Geodetic Control Information on Passive Marks
- Geoid Height and Deflections of the Vertical Models - National Geospatial Data Asset (NGDA) Geoid Models

Next, please provide a brief description of other efforts that support nationwide population of data, including citations and resource links as necessary.

DOC Staff have established Standard Operating Procedures for airborne gravity data collection ([https://geodesy.noaa.gov/GRAV-D/](https://geodesy.noaa.gov/GRAV-D/)) ensure that this NGDA meets accuracy needs for geoid model
development and other stakeholders. NCN data have a robust analysis group that checks the data supplied by the public-private partnership and provides graphical (https://geodesy.noaa.gov/CORS_Map/) and text based (https://geodesy.noaa.gov/CORS/data.shtml) access to the data as well as metadata. These data are used in a separate tool by users to determine their own geospatial coordinates within the NSRS (https://geodesy.noaa.gov/OPUS/). The passive control geodetic data are accessed either in the DOC database as a "datasheet" (https://geodesy.noaa.gov/datasheets/index.shtml) or manipulated using online software (https://www.ngs.noaa.gov/NGSDataExplorer/). Geoid height and deflection models are available online (https://geodesy.noaa.gov/GEOID/index.shtml).

QB.2. Brief Summary (Limit 5,000 characters, approximately 800 words): Please provide a brief description of FY2021 actions and accomplishments in addressing Section 2805(b)(3)(B).

Clarifying Text: Summary comments provide an opportunity to further highlight and expand on significant efforts agencies are engaged in at the dataset or agency level that relate to GDA requirements.

The four NGDA datasets represent the core components for the modernized National Spatial Reference System managed by this theme. The NSRS underpins all geospatial data and ensures that the geospatial components of other NGDA datasets meet international standards and requirements. The four NGDA datasets in this theme all are readily accessible from online tools. DOC staff perform ongoing analysis and outreach to stakeholders and a variety of tools are available for national access to these data. Significant collaboration exists with neighboring countries to ensure continuity across the borders of the US and to meet international standards. Significant collaboration also exists from various stakeholders within the US to meet the needs of the US Citizens to have fundamental geodetic control to perform surveys for civil engineering, construction, scientific, and academic studies. DOC Staff are likewise working with other Agencies to bring conformity to their geospatial data. This ensures their data are findable, accessible, interoperable and re-usable (F.A.I.R.), which is a core concept of international standards for geospatial data. Being available through the Geoplatform, Data.Gov, and Program websites ensures that the data are also in compliance with the Open, Public, Electronic and Necessary Government Data Act of 2018.
C. Establish Goals That Support the NSDI Strategic Plan

<table>
<thead>
<tr>
<th>GDA Requirement</th>
<th>USC 43 Sec 2805(b)(3)(C) – establish goals that support the strategic plan for the National Spatial Data Infrastructure prepared under section 2804(c);</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Covered Agency</td>
<td>Made Progress Toward Expectations</td>
</tr>
<tr>
<td>Self-Assessment</td>
<td>FGDC agencies continue work to evaluate options for establishing a common understanding and approach to meeting GDA requirements and the goals and objectives of the NSDI Strategic Plan. The briefing paper being developed for consideration by the FGDC Steering Committee, and described in Section B, outlines a path forward to establish common practices that can be used to advance the NSDI, and meet requirements of the GDA and other legislation. This work provides a foundation for designating “Made progress toward expectations” for all themes for the FY2021 reporting year. Response options included:</td>
</tr>
<tr>
<td>Key to Self-Assessment</td>
<td>Fails to Meet Expectations</td>
</tr>
<tr>
<td></td>
<td>Made Progress Toward Expectations</td>
</tr>
<tr>
<td></td>
<td>Meets Expectations</td>
</tr>
</tbody>
</table>

References: USC 43 Sec 2805(b)(3)(C) and NSDI Strategic Plan 2021-2024

Establishing Common Goals and Priorities Supporting the NSDI and Its Strategic Plan

The FGDC and the geospatial community have partnered for decades in building the National Spatial Data Infrastructure. Much has been accomplished and exploitation of the internet, combined with advances in technology and availability of mobile devices, have increased public awareness that everything happens somewhere. Having Geospatial data and information available at people’s fingertips has become an expectation for most users. The vision of the NSDI Strategic Plan 2021-2024 of a “geo-enabled Nation and world for place-based decision making” provides a platform for partnerships that help ensure required data is the best possible data. FGDC has adopted as its mission to enable a “national network of geospatial resources that seamlessly integrate location-based information to serve the needs of the Nation and wider global interests.”

FGDC agencies are focused on meeting mission requirements for national geospatial data assets they manage while working collaboratively with partners to implement the NSDI strategic plan and meet its goals and objectives. For the NGDA portfolio, these objectives include efforts to: 1) streamline portfolio management practices and establish standards for NGDA themes and associated datasets, 2) develop common approaches to implement data acquisition and lifecycle management strategies, 3) advance the practice of integrating government and nongovernment data into national datasets, as necessary and 4) ensure that geospatial and other meaningful data can be easily integrated and used.

As described previously in this report, the FGDC intends to continue work across agencies and with the NGAC to understand the priorities of government and nongovernment stakeholders and gather their advice and recommendations for further prioritizing collaborative efforts. Establishing the team of federal and non-federal stakeholders and representatives of the NGDA data theme community will allow
for establishing common understanding of opportunities and constraints and will allow agencies to identify “goals that support the strategic plan for the National Spatial Data Infrastructure.” This work would build on the upcoming release of the OMB Circular A-16, the GDA, and other legal and policy requirements in order to establish practical guidance about how agencies can achieve what is being described in the generic, high level, language used in the NSDI Strategic Plan.

**Highlighting FGDC Agency Strategies that Support the NSDI and Geospatial Data**

**QC.1. Do geospatial strategic plan(s) exist for the agencies that manage and support the NGDA datasets within the Theme?**

- Yes

**If yes, please provide a short description and examples of where these strategies are documented.**

The Department of Commerce Geospatial Strategy ([https://www.commerce.gov/sites/default/files/2021-07/US-Dept-of-Commerce-Geospatial-Strategy-FY21-24.pdf](https://www.commerce.gov/sites/default/files/2021-07/US-Dept-of-Commerce-Geospatial-Strategy-FY21-24.pdf)) includes goals and supporting objectives that directly support the Department of Commerce Data Strategy (2021–2024), the Geospatial Data Act of 2018 (GDA) and the National Spatial Data Infrastructure Strategic Plan (2021–2024). This Strategy was developed by the Commerce Geospatial Working Group under the Commerce Data Governance Board (CDGB) with input from all Commerce bureaus, per the requirement of a lead covered agency (LCA) under the GDA.

**QC.2. Have goals or actions been identified that support the goals and objectives of the National Spatial Data Infrastructure (NSDI) Strategic Plan for the NGDA datasets within the Theme?**

**Clarifying text:** Identified actions can be part of the geospatial strategies for the agencies that manage data within the theme, and/or other documents that specifically relate to the data within the theme.

- Yes

**If yes, please provide a short description and examples of where these goals or actions are documented.**

The DOC Geospatial Strategy, published in July 2021, describes the vision, scope, goals, and strategic objectives for establishing a foundation to effectively manage, share, and maximize the value of the DOC's data assets. The Strategy's four goals are broadly applicable across Commerce mission areas and the supporting objectives guide implementation. The DOC Geospatial Strategic Action Plan ([https://www.commerce.gov/sites/default/files/2021-10/US-Dept-of-Commerce-Geospatial-Strategic-Action-Plan.pdf](https://www.commerce.gov/sites/default/files/2021-10/US-Dept-of-Commerce-Geospatial-Strategic-Action-Plan.pdf)) is intended to provide the actions and timeline for achieving the goals set out in the DOC Geospatial Strategy. ● GOAL 1: Govern and Manage Geospatial Data ● GOAL 2: Advance the Maturity and Expand the Sources of Commerce National Geospatial Data ● GOAL 3: Enable and Promote Collaborative Partnerships ● GOAL 4: Foster a Diverse Commerce Geospatial Workforce

**QC.3. Brief Summary (Limit 5,000 characters, approximately 800 words): Please provide a brief description of FY2021 actions and accomplishments in addressing Section 2805(b)(3)(C).**

**Clarifying Text:** Summary comments provide an opportunity to highlight significant efforts agencies are engaged in at the dataset or agency level that relate to GDA requirements.
The DOC Data Strategy, Geospatial Strategy and Geospatial Strategic Action Plan established DOC Goals to implement the NSDI Strategic Plan. The Theme Lead and Dataset Managers work in DOC Geospatial Working Group and Standards User Group to translate these actions and goals into theme requirements. The Theme related strategic plan is maintained by the Theme Lead and provides specific goals tied to the development of a modernized National Spatial Reference System based on the NGDA datasets. In support of this Theme Strategic Plan, several Blueprints have been developed to provide clarity and standards on how this modernization will be implemented and used. Outreach events are used to promulgate the information from these to better inform stakeholders and users.
D. Addressing User Needs

<table>
<thead>
<tr>
<th>GDA Requirement</th>
<th>USC 43 Sec 2805(b)(3)(D) – as necessary, collect and analyze information from users of geospatial data within the National Geospatial Data Asset data theme regarding the needs of the users for geospatial data and incorporate the needs of users in strategies relating to the National Geospatial Data Asset data theme;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Covered Agency Self-Assessment</td>
<td><strong>Made Progress Toward Expectations</strong></td>
</tr>
<tr>
<td>Key to Self-Assessment</td>
<td>FGDC agencies continue work to evaluate options for establishing a common understanding and approach to meeting GDA requirements. The briefing paper being developed for consideration by the FGDC Steering Committee, and described in Section B, outlines a path forward to engage partners and stakeholders and work towards establishing common practices that can be used to address the needs of users, advance the NSDI, and meet requirements of the GDA and other legislation. This work provides a foundation for designating “Made progress toward expectations” for all themes the FY2021 reporting year. Response options included:</td>
</tr>
<tr>
<td></td>
<td>• Fails to Meet Expectations</td>
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<tr>
<td></td>
<td>• Meets Expectations</td>
</tr>
</tbody>
</table>

Reference: [USC 43 Sec 2805(b)(3)(D)](https://www.lcgc.gov/ucl/page.html?node=USC%2043%20Sec%202805%28b%29%283%29%28D%29)

**Highlighting FGDC and FGDC Agency Efforts to Meet User Needs**

This section of the GDA calls on the FGDC agencies to understand the needs of users through collection and analysis of user needs information from the users of NGDA datasets and to incorporate those needs into strategies relating to the NGDA datasets and themes. In addition to agencies efforts to collect and analyze user needs there are many use cases and needs assessments being developed by stakeholders and users of geospatial data, some of which were highlighted and are available in the FY2020 GDA reports.

The desired outcome of efforts to develop the NSDI and advance nationwide population of geospatial data is to meet the needs of geospatial data users and the nation. The result will be for users and stakeholders to be empowered to accomplish tasks that are important to them, to increase the likelihood they will benefit from the decisions that are made, and to provide them access to use geospatial data that improves their day-to-day lives.

As previously highlighted in this report, the efforts to develop a common understanding of the objectives and goals in the NSDI Strategic Plan 2021-2024 will be key to incorporating relevant strategies and approaches to meeting the needs of users for NGDA data.
FY2020 Report Follow up

The FY2020 reports gathered on theme use cases, user needs User Needs Assessments, Workshops, and Summits that support the data within the theme. Additionally, a suite of use cases developed by partners and stakeholders was provided in Appendix A: NGDA Use Cases including those from the Federal Data Strategy, NGAC, HIFLD, the FGDC GDA Communications Working Group, the Joint HIFLD/GeoPlatform Feedback Sessions, and other types of user feedback and use cases. This information will be evaluated for inclusion in the redesign of the FGDC theme community sites.

Highlighting FGDC and FGDC Agency Efforts to Meet User Needs

The FGDC agencies with responsibilities for managing NGDA themes and datasets have developed the following questions to highlight on-going agency efforts to support understanding user needs and incorporating those needs into strategies relating to the NGDA portfolio datasets.

**QD.1. Do the agencies, sub-agencies, or bureaus that manage NGDA within the Theme have processes to collect and analyze the needs of users and incorporate those needs of users into strategies relating to the NGDA datasets?**

- Yes

**QD.2. Did you provide information in response to QB.1b. on any of the NGDA datasets for which user needs information is collected, analyzed, or incorporated into strategies?**

- Yes

**QD.3. Brief Summary (Limit 5,000 characters, approximately 800 words): Please provide a brief description of FY2021 actions and accomplishments in addressing Section 2805(b)(3)(D).**

**Clarifying Text:** Summary comments provide an opportunity to highlight significant efforts agencies are engaged in at the dataset or agency level that relate to GDA requirements.

Extensive interactions with users and stakeholders continue as they previously occurred. All major projects tied to the NGDA datasets and the modernization of the National Spatial Reference System have a mandatory outreach and communication section. Additionally, a position has been established for several years for an Constituent Resource Manager as well as Regional Advisers whose primary task is to interact with stakeholders and industry to ensure that a two way flow of communication occurs. During this past COVID year, no in-person meetings occurred but outreach and monthly webinars continued to provide a means of interaction. In particular, a Geospatial Summit was held to inform all stakeholders of updates and plans for the modernized NSRS and to seek direct feedback on these plans. Outreach was conducted at meetings with primary stakeholder groups including the National Society of Professional Surveyors (NSPS), ESRI, and others. Alpha products are being developed to provide industry and other stakeholders an opportunity to adjust to new data formats and methodology. Blueprints have been developed and published to explain this rollout and how to practically implement the changes. Every new product or service must be reviewed by a Products and Services Committee to determine impacts to users and stakeholders before implementing. It is anticipated that these efforts will need to be further increased with proximity to the rollout - requiring further planning.
Appendix A: Survey Picklists

This appendix provides the full set of choices presented in the self-assessment survey for questions that have multiple response options, including those that are “select all that apply.”

Q1. How is the Lead Covered Agency(ies) participating in ensuring the coordinated management of the Theme? (Select all that apply)

- Agency has published a geospatial strategy as required by the GDA
- No participation in ensuring coordinated management of the Theme
- Theme Executive Champion(s) attend NGDA Theme Community Meetings
- Theme Lead(s) attend NGDA Theme Community Meetings
- Theme Lead(s) participate in GDA Working Group meetings
- Theme Leads(s) review the outcomes from GDA Working Group meetings and provide feedback on approaches for GDA compliance
- Theme Lead(s) coordinate GDA compliance activities with Theme personnel
- Theme Lead(s) communicate new and ongoing Portfolio Management activities and priorities with Dataset Managers in the Theme
- Steering Committee members coordinate with the Theme
- Other [Textbox provided]

QA.2. Please check all the activities that have been taken to establish, develop, or modify standards for data within the Theme (select all that apply):

- Agency reviewed ISO metadata collection tools
- Agency reviewed conformance assessment procedures with assistance from existing standards bodies
- Agency maintains active licenses for all standards (where applicable)
- Agency generates Requests for Information (RFI) to develop new standards and tools
- Agency established processes for standards management
- Agency examined comparable international standards for suitability with NGDA dataset
- Agency examined comparable national standards for suitability with NGDA dataset
- Agency examined comparable FGDC endorsed standards for suitability with NGDA dataset
- Agency examined comparable open-source standards for applicability to NGDA dataset
- Agency developed comparable agency-specific standards to apply to NGDA dataset
- Agency analyzed related international, national, FGDC, open-source, or agency-specific standards to identify components to modify or adapt into specific NGDA dataset standard
- Agency analyzed related international, national, FGDC, open-source, or agency-specific standards to identify components to incorporate into a new specific NGDA dataset standard
- Agency established an appropriate subject-matter expert committee to develop a new standard to meet agency-specific, FGDC, national, international, user, or stakeholder needs for the NGDA dataset
- Appropriate committee created a draft agency-specific, FGDC, national, or international standard for the NGDA dataset
- Agency initiated the agency-specific FGDC, national, or international standard creation process for the NGDA dataset
• An agency-specific, FGDC, national, or international standard creation process in progress for the NGDA dataset
• A draft agency-specific, FGDC, national, or international standard for the NGDA dataset is in public review
• A draft agency-specific, FGDC, national, or international standard for the NGDA dataset is waiting for final approval by the appropriate standards governing body
• Other [Textbox provided]
Endnotes

1 FGDC GDA Information: https://fgdc.gov/gda
2 NSDI Strategic Plan: https://www.fgdc.gov/nsdi-plan
3 GeoPlatform Theme Communities: https://www.geoplatform.gov/communities
5 Theme LMA Summary Reports: https://communities.geoplatform.gov/ngda-portfolio/national-geospatial-data-asset-ngda-reports/?wdt_column_filter%5bYear%5d=2015&wdt_column_filter%5bReport%20Type%5d=Theme%20Summary%20Report
6 NGDA Portfolio Community Site: https://communities.geoplatform.gov/ngda-portfolio/
8 NGDA Theme Leads: https://communities.geoplatform.gov/ngda-portfolio/ngda-theme-leads/
9 NGDA Executive Theme Champions: https://communities.geoplatform.gov/ngda-portfolio/ngda-theme-executive-champions/
10 NGDA Portfolio Datasets: https://communities.geoplatform.gov/ngda-portfolio/ngda-portfolio/