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FEDERAL GEOGRAPHIC DATA COMMITTEE

2021 Lead Covered Agency
NGDA Theme Annual Performance Report
and Self-Assessment
for
Transportation 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.[1]

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](#).[2] 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 Transportation 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](#)[3] 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](#).[4] As described in the FY2020 LCA NGDA Theme Reports, these assessments were conducted in 2015 and 2017 and resultant [Theme LMA Summary Reports](#)[5] 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[6] 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.[7] This information is kept up-to-date in the NGDA Portfolio Community on NGDA Theme Leads[8] and NGDA Executive Theme Champions[9] pages.

Transportation Theme Contacts	
Theme Lead(s):	Derald Dudley, U.S. Department of Transportation, Bureau of Transportation Statistics
Executive Theme Champion(s):	Daniel Morgan, U.S. Department of Transportation

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 Transportation 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[10] is maintained on the GeoPlatform and is provided here filtered by the Transportation Theme. Each NGDA

dataset also has a unique value assigned, called an NGDAID, that allows the dataset to be tracked throughout its lifecycle.

NGDAID	Transportation Theme NGDA Datasets	Agency
141	Airports (National) - National Geospatial Data Asset (NGDA) Airports	U.S. Department of Transportation, Federal Aviation Administration
142	National Bridge Inventory - National Geospatial Data Asset (NGDA) Bridges	U.S. Department of Transportation, Bureau of Transportation Statistics
143	Freight Intermodal Facility (National) - National Geospatial Data Asset (NGDA) Intermodal (Freight)	U.S. Department of Transportation, Bureau of Transportation Statistics
144	Intermodal Passenger Connectivity Database (IPCD) (National) - National Geospatial Data Asset (NGDA) Intermodal (Passenger)	U.S. Department of Transportation, Bureau of Transportation Statistics
145	North American Rail Lines (National) - National Geospatial Data Asset (NGDA) North American Rail Lines	U.S. Department of Transportation, Bureau of Transportation Statistics
146	North American Rail Nodes (National) - National Geospatial Data Asset (NGDA) North American Rail Nodes	U.S. Department of Transportation, Bureau of Transportation Statistics
147	Runways (National) - National Geospatial Data Asset (NGDA) Runways	U.S. Department of Transportation, Federal Aviation Administration
148	Fixed-Guideway Transit Lines (National) - National Geospatial Data Asset (NGDA) Transit (Lines)	U.S. Department of Transportation, Bureau of Transportation Statistics
149	Fixed-Guideway Transit Stations (National) - National Geospatial Data Asset (NGDA) Transit (Stations)	U.S. Department of Transportation, Bureau of Transportation Statistics
150	Inland Electronic Navigational Charts (IENC)	U.S. Department of Defense, U.S. Army Corp of Engineers
151	Waterway Locks (National) - National Geospatial Data Asset (NGDA) Locks	U.S. Department of Defense, U.S. Army Corp of Engineers
152	Ports (National) - National Geospatial Data Asset (NGDA) Ports	U.S. Department of Defense, U.S. Army Corp of Engineers
153	Navigable Waterway Routes (National) - National Geospatial Data Asset (NGDA) Waterway Lines	U.S. Department of Defense, U.S. Army Corp of Engineers
154	Navigable Waterway Nodes (National) - National Geospatial Data Asset (NGDA) Waterway Nodes	U.S. Department of Defense, U.S. Army Corp of Engineers
155	Collection Information for the All Roads County-Based TIGER/Line Shapefiles, Current	U.S. Department of Commerce, U.S. Census Bureau

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*)

- 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

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

FY 2020 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.

- Airports (National) - National Geospatial Data Asset (NGDA) Airports
- National Bridge Inventory - National Geospatial Data Asset (NGDA) Bridges
- Freight Intermodal Facility (National) - National Geospatial Data Asset (NGDA) Intermodal (Freight)
- Intermodal Passenger Connectivity Database (IPCD) (National) - National Geospatial Data Asset (NGDA) Intermodal (Passenger)
- North American Rail Lines (National) - National Geospatial Data Asset (NGDA) North American Rail Lines
- North American Rail Nodes (National) - National Geospatial Data Asset (NGDA) North American Rail Nodes
- Runways (National) - National Geospatial Data Asset (NGDA) Runways
- Fixed-Guideway Transit Lines (National) - National Geospatial Data Asset (NGDA) Transit (Lines)
- Fixed-Guideway Transit Stations (National) - National Geospatial Data Asset (NGDA) Transit (Stations)
- Inland Electronic Navigational Charts (IENC)
- Waterway Locks (National) - National Geospatial Data Asset (NGDA) Locks
- Ports (National) - National Geospatial Data Asset (NGDA) Ports
- Navigable Waterway Routes (National) - National Geospatial Data Asset (NGDA) Waterway Lines
- Navigable Waterway Nodes (National) - National Geospatial Data Asset (NGDA) Waterway Nodes
- TIGER/Line Shapefile, 2019, Series Information for the Roads County-based Shapefile

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

DOT has completed a draft GIS Strategic Plan, but it is undergoing review so as to be aligned with the overall DOT Strategic Plan, which is still under development.

The United States Department of Transportation started developing its Geospatial Standards Implementation Plan (GSIP) in 2021. The plan will assess existing standards, identify anticipated or needed standards if existing standards are not sufficient, and detail a process to adopt or originate and implement needed standards with relevant community and international practices. The standards adoption, or development, processes will comply with OMB Circular A–119, and be consistent with the Geospatial Data Act, OMB Circular A-16, NSDI Strategic Plan, DOT GIS Strategic Plan, and the Transportation Theme Strategic Plan. The GSIP will be completed in early 2023.

Data content and metadata standards from the International Organization for Standardization (ISO), the American National Standards Institute, the Open Geospatial Consortium, and the Federal Geographic Data Committee (FGDC) are applied to Census Bureau's Roads NGDAs. For this reporting period, the Roads NGDA complies with the Office of Management and Budget (OMB) Circular A-119 guidance on the use of voluntary consensus standards (VCS) for metadata, namely ISO 19115-2 and ISO 19139-2

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)**:**

- 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 Department continues to lead 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 through various activities.

As mentioned above, the Department anticipates the Geospatial Standards Implementation Plan's completion in early 2023. The plan will assess existing standards, identify anticipated standards, and detail a process to implement those standards with relevant community input and according to best practices.

Further, the Department strategically engages its partners, at all levels of government and industry, to stay up-to-date on the geospatial-transportation community's current and expected geospatial-data standard needs. Specifically, the U.S. Department of Transportation, including the Bureau of Transportation Statistics, Federal Aviation Administration, Federal Highway Administration, Federal Rail Administration, and Federal Transit Administration, works closely with the US Department of Commerce, US Census Bureau, The US Department of Interior, US Geological Survey, National Park Service, the Department of Defense, the National Geospatial-Intelligence Agency, US Army Corps of Engineers, multiple State Departments of Transportation, Academia, and private industry partners. Their work is focused on the most pressing geospatial data issues through the Work Zone Data Working Group, US Road Specification Working Group, Federal Land Roads Working Group, Federal Trail Working Group, Intercity Bus Working Group, the Geospatial Transportation Subcommittee, other working groups, and committees.

The geospatial data community also maintains its awareness of geospatial-data standard needs through active participation in professional organizations and interests groups such as the Aeronautical Information Exchange Model Change Control Board, American Association of State Highway Transportation Officials, the American Association of Railroads, the Eastern Transportation Coalition, the Federal Geographic Data Committee, the National Bus Traffic Association, the National States Geographic Information Council, the Open Geospatial Consortium, the Open Mobility Foundation, OpenStreetMap, and the Transportation Research Board.

The USDOT hosts the Geospatial User Group, Geospatial Community of Practice, and the Aeronautical Information Products and Services Community of Interests to foster knowledge exchange.

FRA participates in the Association of American Railroads (AAR) GIS Committee meetings quarterly, AAR GIS Location Management meetings weekly and the AAG GIS Additional opportunity meetings monthly.

The Work Zone Data Exchange (WZDx) Working Group continues to make great strides in closing the gap between transportation-data and transportation-technology. It released version 4.0 of the Work Zone Data Specification in November of 2021. The new version added two new feed types: one for smart work zone device data and one for road restrictions not caused by work zones, in addition to the existing WZDx feed for work zones and detours. It reorganized the specification to accommodate inclusion of other types of temporary road closures, restrictions, and other events. It created a new object to contain more information about the presence of workers in a work zone, such as the data producer's confidence that workers are present. It allows feeds to provide more information at the road event-level when lane-level information isn't available, such as restriction values, merges, and shifts. It streamlined lane types to remove references to position and add missing values. Finally, it deprecates unused properties and removes previously deprecated properties and values.

The New York State Department of Transportation (NYSDOT) is implementing the nation's first Road Restrictions Feed to mitigate bridge strikes. Road Restriction Feeds were developed in partnership with the USDOT, NYSDOT, NSGIC, Google, and Here. Road Restriction Feeds are GeoJSON documents that locate and describe hazardous road conditions such as low clearances, narrow widths, weight limits, and more. After publication, the feeds are consumed by wayfinding companies (WCs), such as Google, Here, and Waze, who include the restriction information in their maps. The maps are then used by drivers, via in-vehicle devices, as they plan and navigate trips. If needed, warnings are issued to drivers about hazards to navigation. Drivers, heeding these warnings, alter their course to avoid hazards and reduce bridge strikes.

B. Nationwide Population of the Data Theme

GDA Requirement	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— (i) include developing partnership programs with States, Indian tribes, institutions of higher education, private sector entities, other Federal agencies, and local governments; (ii) meet the needs of users of geospatial data; (iii) address human and financial resource needs; (iv) identify needs relating to standards, metadata for geospatial data within the National Geospatial Data Asset data theme, and the GeoPlatform; and (v) expedite the development of necessary National Geospatial Data Asset data themes;
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. 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: • Fails to Meet Expectations • Made Progress Toward Expectations • Meets Expectations

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.

- Airports (National) - National Geospatial Data Asset (NGDA) Airports
- National Bridge Inventory - National Geospatial Data Asset (NGDA) Bridges
- Freight Intermodal Facility (National) - National Geospatial Data Asset (NGDA) Intermodal (Freight)
- Intermodal Passenger Connectivity Database (IPCD) (National) - National Geospatial Data Asset (NGDA) Intermodal (Passenger)
- North American Rail Lines (National) - National Geospatial Data Asset (NGDA) North American Rail Lines
- North American Rail Nodes (National) - National Geospatial Data Asset (NGDA) North American Rail Nodes
- Runways (National) - National Geospatial Data Asset (NGDA) Runways
- Fixed-Guideway Transit Lines (National) - National Geospatial Data Asset (NGDA) Transit (Lines)
- Fixed-Guideway Transit Stations (National) - National Geospatial Data Asset (NGDA) Transit (Stations)
- TIGER/Line Shapefile, 2019, Series Information for the Roads County-based Shapefile

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

Department strategically engages it partners, at all levels of government and industry, to foster the nationwide population of the NGDA datasets within the Theme through various activities.

The Department is examining the addition and removal of some NGDA datasets. Possible additions include the Federal Aviation Administration's Air Routes, Federal Highway Administration's National Tunnel Inventory, and Federal Railroad Administration's Rail Bridge Database. Datasets being considered for removal are the Intermodal Passenger Connectivity Database (IPCD) and Inland Electronic Navigational Charts (IENC). To improve consistency with the other Transportation Theme NGDA centered on infrastructure, the Department is exploring the separation and redesign of the current IPCD into two datasets with one serving as the Intermodal Passenger NGDA focused on the spatial location and attributes of passenger transportation facilities and a non-NGDA IPCD serving as an analytical product focused on connections and accessibility. The inclusion of the IENCs in the theme is inconsistent. Electronic Nautical Charts, Nautical Charts, and Aeronautical Charts are excluded from the theme.

The Bureau of Transportation Statistics continues to produce the Federal Track of the American Association of State Highway Transportation Official's GIS-T (Geographic Information Systems - Transportation) symposium. The Federal Track highlights federal work related to geospatial-transportation data and fosters conversations about national geospatial-transportation data needs.

The U.S. Department of Transportation, including the Bureau of Transportation Statistics, Federal Aviation Administration, Federal Highway Administration, Federal Rail Administration, and Federal Transit Administration, works closely with the US Department of Commerce, US Census Bureau, The US Department of Interior, US Geological Survey, National Park Service, the Department of Defense, the National Geospatial-Intelligence Agency, US Army Corps of Engineers, multiple State Departments of Transportation, Academia, and private industry partners. Their work is focused on the most pressing

geospatial data issues through the Work Zone Data Working Group, US Road Specification Working Group, Federal Land Roads Working Group, Federal Trail Working Group, Intercity Bus Working Group, the Geospatial Transportation Subcommittee, other working groups, and committees.

The geospatial data community also maintains its awareness of NGDA dataset needs through active participation in professional organizations and interests groups such as the Aeronautical Information Exchange Model Change Control Board, American Association of State Highway Transportation Officials, the American Association of Railroads the Eastern Transportation Coalition, the Federal Geographic Data Committee, the National Bus Traffic Association, the National States Geographic Information Council, the Open Geospatial Consortium, the Open Mobility Foundation, OpenStreetMap, and the Transportation Research Board.

The USDOT hosts the Geospatial User Group, Geospatial Community of Practice, and the Aeronautical Information Products and Services Community of Interests to foster knowledge exchange, coordinate regulation implementation, and enhance geospatial skillsets. USDOT's Deputy GIO chairs the Geospatial Data Act Working Group, comprised of representatives from 17 Federal agencies.

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.

- Airports (National) - National Geospatial Data Asset (NGDA) Airports
- National Bridge Inventory - National Geospatial Data Asset (NGDA) Bridges
- Freight Intermodal Facility (National) - National Geospatial Data Asset (NGDA) Intermodal (Freight)
- Intermodal Passenger Connectivity Database (IPCD) (National) - National Geospatial Data Asset (NGDA) Intermodal (Passenger)
- North American Rail Lines (National) - National Geospatial Data Asset (NGDA) North American Rail Lines
- North American Rail Nodes (National) - National Geospatial Data Asset (NGDA) North American Rail Nodes
- Runways (National) - National Geospatial Data Asset (NGDA) Runways
- Fixed-Guideway Transit Lines (National) - National Geospatial Data Asset (NGDA) Transit (Lines)
- Fixed-Guideway Transit Stations (National) - National Geospatial Data Asset (NGDA) Transit (Stations)
- TIGER/Line Shapefile, 2019, Series Information for the Roads County-based Shapefile

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

The Department leverages its internal and external partnerships to assess the needs of its geospatial data users. Internally the Department uses its Geospatial User Group (GUG) and the Federal Aviation Administration's Geospatial Community of Practice (GeoCOP) to maintain a dialog among federal geospatial-transportation data users. The Department created the GUG and GeoCOP to inform the geospatial community about Departmental activities and geospatial policies. GUG and GeoCOP meeting schedules and content are available upon request.

The Department consistently engages professional organizations, boards, committees, working groups, and other initiatives. These engagements keep the Department up-to-date on industry trends and user needs. They also create a space for staff members to personally interact with geospatial-transportation stakeholders. Staff engagement activities are available upon request.

Chapter 63, of Title 49 in the U.S. Code, directs the Bureau of Transportation Statistics to administer the Theme. Specifically, §6302(b)(3)(B)(vii) directs the Director of The Bureau of Transportation Statistics to build and disseminate the transportation layer of the National Spatial Data Infrastructure developed under Executive Order 12906 (59 Fed. Reg. 17671) (or a successor Executive Order), including by coordinating the development of transportation geospatial data standards, compiling intermodal geospatial data, and collecting geospatial data that is not being collected by other entities;

The Infrastructure Investment and Jobs Act (Public Law No: 117-58, November 15, 2021) requires BTS to develop a roadmap for data and analytics support to decision-making officials in state, regional, and local government. This spring, BTS is hosting several listening sessions that will give local decisionmakers the opportunity to share their experience and needs for infrastructure data and data analysis tools, including geospatial and NGDAs

The Department, along with BTS' dedicated staff and programs, administers the Transportation Theme. The geospatial transportation community continually assesses the Theme because needs are dynamic. The Department modifies the Theme when necessary. The Theme Lead meets regularly with DOT's Geospatial Management Office (GMO) to ensure the Theme aligns with the GIS Strategic Plan and complies with all requirements and regulations. The Theme Lead also works with component GIOs to evaluate geospatial datasets for inclusion in the Theme.

The US Road Specification Working groups has successfully assessed user needs for the US Road Network. The working group is currently developing a specification with input from the federal geospatial-transportation community.

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.

- Airports (National) - National Geospatial Data Asset (NGDA) Airports
- National Bridge Inventory - National Geospatial Data Asset (NGDA) Bridges
- Freight Intermodal Facility (National) - National Geospatial Data Asset (NGDA) Intermodal (Freight)
- Intermodal Passenger Connectivity Database (IPCD) (National) - National Geospatial Data Asset (NGDA) Intermodal (Passenger)
- North American Rail Lines (National) - National Geospatial Data Asset (NGDA) North American Rail Lines
- North American Rail Nodes (National) - National Geospatial Data Asset (NGDA) North American Rail Nodes
- Runways (National) - National Geospatial Data Asset (NGDA) Runways
- Fixed-Guideway Transit Lines (National) - National Geospatial Data Asset (NGDA) Transit (Lines)
- Fixed-Guideway Transit Stations (National) - National Geospatial Data Asset (NGDA) Transit (Stations)
- TIGER/Line Shapefile, 2019, Series Information for the Roads County-based Shapefile

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).

The United States Department of Transportation started developing its Geospatial Standards Implementation Plan (GSIP) in 2021. The plan will assess existing geospatial standards from relevant Standards Development Organizations (SDO), identify anticipated or needed standards if existing standards are not sufficient, and detail a process to adopt or originate and implement needed standards with relevant community and international practices. The standards adoption, or development, processes will comply with OMB Circular A–119, and be consistent with Geospatial Data Act, OMB Circular A-16, NSDI Strategic Plan, DOT GIS Strategic Plan, and the Transportation Theme Strategic Plan. The GSIP will be completed in early 2023.

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.

- Airports (National) - National Geospatial Data Asset (NGDA) Airports
- National Bridge Inventory - National Geospatial Data Asset (NGDA) Bridges
- Freight Intermodal Facility (National) - National Geospatial Data Asset (NGDA) Intermodal (Freight)
- Intermodal Passenger Connectivity Database (IPCD) (National) - National Geospatial Data Asset (NGDA) Intermodal (Passenger)
- North American Rail Lines (National) - National Geospatial Data Asset (NGDA) North American Rail Lines

- North American Rail Nodes (National) - National Geospatial Data Asset (NGDA) North American Rail Nodes
- Runways (National) - National Geospatial Data Asset (NGDA) Runways
- Fixed-Guideway Transit Lines (National) - National Geospatial Data Asset (NGDA) Transit (Lines)
- Fixed-Guideway Transit Stations (National) - National Geospatial Data Asset (NGDA) Transit (Stations)
- TIGER/Line Shapefile, 2019, Series Information for the Roads County-based Shapefile

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

The United States Department of Transportation started developing its Geospatial Standards Implementation Plan (GSIP) in 2021. The plan will assess existing standards, identify anticipated or needed standards if existing standards are not sufficient, and detail a process to adopt or originate and implement needed standards with relevant community and international practices. The standards adoption, or development, processes will comply with OMB Circular A–119, and be consistent with Geospatial Data Act, OMB Circular A-16, NSDI Strategic Plan, DOT GIS Strategic Plan, and the Transportation Theme Strategic Plan. The GSIP will be completed in early 2023

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.

- Airports (National) - National Geospatial Data Asset (NGDA) Airports
- National Bridge Inventory - National Geospatial Data Asset (NGDA) Bridges
- Freight Intermodal Facility (National) - National Geospatial Data Asset (NGDA) Intermodal (Freight)
- Intermodal Passenger Connectivity Database (IPCD) (National) - National Geospatial Data Asset (NGDA) Intermodal (Passenger)
- North American Rail Lines (National) - National Geospatial Data Asset (NGDA) North American Rail Lines
- North American Rail Nodes (National) - National Geospatial Data Asset (NGDA) North American Rail Nodes
- Runways (National) - National Geospatial Data Asset (NGDA) Runways
- Fixed-Guideway Transit Lines (National) - National Geospatial Data Asset (NGDA) Transit (Lines)
- Fixed-Guideway Transit Stations (National) - National Geospatial Data Asset (NGDA) Transit (Stations)
- TIGER/Line Shapefile, 2019, Series Information for the Roads County-based Shapefile

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

In FY21, USDOT published an IT Implementation Memo which requires searches of the GeoPlatform and other sources before creating or procuring a geospatial dataset. USDOT also drafted an IT Implementation Memo with data/ metadata quality guidelines for geospatial datasets.

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.

2021 Actions and accomplishments are included in answers QB.1a – QB.1d

C. Establish Goals That Support the NSDI Strategic Plan

GDA Requirement	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);
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 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: • Fails to Meet Expectations • Made Progress Toward Expectations • Meets Expectations

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.

DOT has completed a draft GIS Strategic Plan, but it is undergoing review so as to be aligned with the overall DOT Strategic Plan, which is still under development. The Transportation Theme Strategic Plan was completed in 2021. Copies are available upon request.

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 Transportation Theme Strategic Plan documents the goals and actions that support the NSDI Strategic Plan for the NGDA datasets within the theme. Copies are available upon request.

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 Department completed its Transportation Theme Strategic Plan which documents the goals and actions it will take to support the NSDI.

D. Addressing User Needs

GDA Requirement	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;
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 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: • Fails to Meet Expectations • Made Progress Toward Expectations • Meets Expectations

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

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.

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.

As stated in Question B.1b, the Department leverages its internal and external partnerships to assess the needs of its geospatial data users. Internally the Department uses its Geospatial Users Group (GUG) and the Federal Aviation Administration's Geospatial Community of Practice (GeoCOP) to maintain a dialog among federal geospatial-transportation data users. The Department created the GUG and GeoCOP to inform the geospatial community about Departmental activities and geospatial policies. GUG and GeoCOP meetings schedules and content are available upon request.

The Department consistently engages professional organizations, boards, committees, working groups, and other initiatives. These engagements keep the Department up-to-date on industry trends and user needs. They also create a space for staff members to personally interact with geospatial-transportation stakeholders. Staff engagement activities are available upon request.

Chapter 63, of Title 49 in the U.S. Code, directs the Bureau of Transportation Statistics to administer the Theme. Specifically, §6302(b)(3)(B)(vii) directs the Director of The Bureau of Transportation Statistics to build and disseminate the transportation layer of the National Spatial Data Infrastructure developed under Executive Order 12906 (59 Fed. Reg. 17671) (or a successor Executive Order), including by

coordinating the development of transportation geospatial data standards, compiling intermodal geospatial data, and collecting geospatial data that is not being collected by other entities.

The Department, along with BTS' dedicated staff and programs, administers the Transportation Theme. The geospatial transportation community continually assesses the Theme because needs are dynamic. The Department modifies the Theme when necessary. The Theme Lead meets regularly with DOT's Geospatial Management Office (GMO) to ensure the Theme aligns with the GIS Strategic Plan and complies with all requirements and regulations. The Theme Lead also works with component GIOs to evaluate geospatial datasets for inclusion in the Theme.

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

[4] Stages of the Geospatial Lifecycle:
https://www.fgdc.gov/policyandplanning/a-16/stages-of-geospatial-data-lifecycle-a16.pdf

[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/

[7] OMB A-16 Supplemental Guidance Roles and Responsibilities:
https://fgdc.gov/policyandplanning/a-16/key-roles-and-responsibilities-a16-supplemental.pdf

[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/