



**2022 Covered Agency Annual Report  
and Self-Assessment**  
*for*  
***Department of Energy***

Geospatial Data Act of 2018  
Section USC 43 Sec 2808(a) Requirements

February 4, 2023



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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](#).

USC 43 Sec 2808(b) of the Geospatial Data Act (GDA) requires each covered agency<sup>1</sup> to submit to the Federal Geographic Data Committee (FGDC) “an annual report regarding the achievements of the covered agency in preparing and implementing the strategy described in subsection (a)(1) and complying with the other requirements under subsection (a).” [<https://fgdc.gov/gda/online>]

This document serves as the Department of Energy’s annual report to the FGDC covering Fiscal Year 2022, October 1, 2021 through September 30, 2022. The report was developed through a self-assessment template developed by the FGDC agencies. Annual reports span one fiscal year. The report includes a rating for each covered agency responsibility of "meets expectations," "made progress toward expectations," or "fails to meet expectations," as required by the GDA. A summary and evaluation of all the covered agency reports will be generated by FGDC and provided to the National Geospatial Advisory Committee (NGAC) for review and comment. The summary reports, along with the NGAC comments, will also become part of the biennial FGDC GDA report to Congress and will be published online via the [FGDC GDA pages \[https://fgdc.gov/gda\]](#).

This report is based on a standardized questionnaire and self-assessment score for each covered agency responsibility. The Department of Energy has maintained documentation supporting the responses provided for this assessment. This information may be reviewed as part of the biennial Inspector General (IG) audits of covered agencies.

A recommended self-assessment key has been provided for each responsibility. In some cases, optional text is provided for additional insights or to justify a self-assessment selection. Any optional responses provided are not a factor in the self-assessment.

Where data or datasets are referenced,<sup>2</sup> information relates to all geospatial datasets owned or managed by the Department of Energy that are, or should be, available to the public.

To support a more comprehensive picture of agency compliance and related activities, each agency had the option to submit up to a 2-page document, using the survey, as part of the agency’s submission. If provided, the document may include highlights and examples that can supplement the FGDC report to Congress, support the feedback process with the NGAC, or provide context to Office of the Inspector General (OIG) findings.

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<sup>1</sup> GDA definition of *agency*: <https://www.fgdc.gov/gda/online#the-term-“covered-agency”—means—an-executive-department-as-def>

<sup>2</sup> GDA definition of *geospatial data*: <https://www.fgdc.gov/gda/online#the-term-%E2%80%98geospatial-data%E2%80%99%E2%80%94means-information-that-is-tied-to-a>

# Self-Assessment for Department of Energy

## USC 43 Sec 2808(a)(1) Covered Agency Geospatial Strategies

<b>GDA Requirement</b>	Prepare, maintain, publish, and implement a strategy for advancing geographic information and related geospatial data and activities appropriate to the mission of the covered agency, in support of the strategic plan for the National Spatial Data Infrastructure
<b>Agency Self-Assessment</b>	<b>Meets Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 1.1 and 1.2</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 1.1 and No to Question 1.2</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Question 1.1 and 1.2</li> </ul> </li> </ul>

**Table 1. GDA USC 43 Sec 2808(a)(1) Covered Agency Geospatial Strategies Requirement and Self-Assessment Criteria.**

**Clarifying Text:** FGDC developed and released a national strategic plan for the development of the National Spatial Data Infrastructure (NSDI) [the GDA, USC 43 Sec 2804(c)], which was approved by the FGDC Steering Committee in November 2020. Covered Agency Geospatial Strategies [the GDA, USC 43 Sec 2808(a)(1)], which will support the goals in the NSDI strategic plan, were due to be completed and submitted for agency approval by February 26, 2021, per FGDC guidance. For more information, please visit <http://fgdc.gov/nsdi-plan>.

### 1.1 Is your agency’s strategy complete, approved, and being implemented?

- Yes

### 1.2 Is your agency’s strategy published? If yes, please provide the URL or briefly describe how public access is being provided.

- Yes

<https://www.energy.gov/sites/prod/files/2021/02/f82/DOE%20Geospatial%20Data%20Management%20Strategy%20February%2026%2C%202021.pdf>

**1.3 Brief Summary (Limit 2000 characters, or approximately 300 words):** Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC 43 Sec 2808(a)(1), "Prepare and implement a strategy for advancing geospatial data activities appropriate to the agency's mission." If the assessment is “made progress toward expectations,” include the actions your agency is taking to achieve the “meets expectations” level.

The Department of Energy (DOE) has developed a Geospatial Data Management Strategy (FY2021-2025) to provide a roadmap for effective, collaborative, and structured use, sharing, production, and

management of geospatial data across DOE. The strategy provides 4 goals: 1) expand and mature DOE geospatial data sources to ensure they are robust, secure, easily accessible, and support a wide range of needs to meet DOE's mission, 2) promote data sharing to facilitate data discovery, accessibility, use, integrity, and integration, 3) govern and manage geospatial data strategically to ensure accountability, effective development, security, quality, and management of DOE geospatial data resources, 4) expand DOE geospatial leadership, workforce development opportunities, and collaborative geospatial partnerships to meet DOE as well as national needs and priorities. Specific objectives were added to guide, inform, and outline actionable items that DOE has begun to implement.

USC 43 Sec 2808(a)(2) Support Data Sharing

<b>GDA Requirement</b>	Collect, maintain, disseminate, and preserve geospatial data such that the resulting data, information, or products can be readily shared with other federal agencies and non-federal users.
<b>Agency Self-Assessment</b>	<b>Made Progress Toward Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ <i>Data is currently shared</i> selections for <b>all</b> agency appropriate parties for Question 2.1 and Yes to Questions 2.2 and 2.3</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ <i>Data is currently shared</i> selections for <b>some</b> appropriate parties for Question 2.1, <b>or</b> Question 2.2 and 2.3 have a mix of answers</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Questions 2.1, 2.2, and 2.3</li> </ul> </li> </ul>

**Table 2. GDA USC 43 Sec 2808(a)(2) Support Data Sharing Requirement and Self-Assessment Criteria.**

**Clarifying text:**

- ✓ This section does not include efforts related to partners, which are covered under Question 7, USC 43 Sec 2808(a)(7).
- ✓ Review the [GDA definition of geospatial data](#) to consider the questions in this section.
- ✓ Remember, your agency’s answers should include information about all geospatial datasets owned or managed by your agency that are, or should be, available to the public in accordance with agency statutory authorities and missions; not just National Geospatial Data Asset (NGDA) Datasets.
- ✓ Sharing data on the Internet using open standards, protocols and formats makes it part of the NSDI.
- ✓ Additional detail on the definition of geospatial data may be provided by OMB Circular A-16 when finalized.
- ✓ Geospatial data that will not or cannot be distributed to the public does not need to be considered for GDA-related responses as per the GDA.

**2.1 Does your agency ensure that all eligible geospatial data is managed so it can be readily shared and is it provided in open formats, as appropriate? (This will include agency open government and transparency guidelines.) (Select all that apply)**

- Data is currently openly shared to the public.
- Data is currently shared on a limited basis with federal partners.
- Data is currently shared on a limited basis with non-federal users.

**2.2 Does your agency disseminate eligible geospatial data in a way that can be readily shared in open formats (for example, using machine readable formats or searchable metadata)? (Select all that apply)**

- Some geospatial data, and its metadata, is shared in open formats.

**2.3 Are maintenance processes in place to ensure other federal agencies and non-federal users have access to the most recent data in addition to data and metadata updates and corrections? (Select all that apply)**

- Some programs/datasets have maintenance processes in place.

**2.4 Optional Question: Would the agency like to provide up to 5 key examples of ongoing or planned activities that ensure eligible geospatial data and associated metadata can be easily shared, understood, and re-used by others, now and in the future?**

- Yes

Planned or Ongoing Activities	Description
DOE Geospatial data catalog	Under development to create a DOE catalog/inventory of geospatial data resources across the Department.
U.S. Energy Atlas	U.S. Energy Atlas ( <a href="https://atlas.eia.gov/">https://atlas.eia.gov/</a> ) has a publicly available geospatial data catalog that is maintained and updated by Department of Energy (DOE)/Energy Information Administration (EIA) with 129 records as of 12/31/2021.
Energy Data eXchange (EDX) and EDX Geocube (web mapping viewer)	EDX ( <a href="https://edx.netl.doe.gov/">https://edx.netl.doe.gov/</a> ) provides access to DOE funded research products associated with fossil energy research. The system is maintained by DOE/National Energy Technology Laboratory (NETL) provides access to ~ 1,668 spatial data resources as of 12/31/2021.
DOE Open Data Catalog, OpenEI	OpenEI provides access to DOE funded research products associated with renewable energy and energy efficiency. The system is maintained by DOE’s National Renewable Energy Laboratory (NREL) and provides access to ~911 spatial data resources as of 12/31/2021.
Oak Ridge National Laboratory Distributed Active Archive Center (ORNL DAAC)	ORNL DAAC ( <a href="https://daac.ornl.gov/">https://daac.ornl.gov/</a> ) provides access to biogeochemical dynamics data. The system is maintained by DOE’s Oak Ridge National Laboratory (ORNL) and is part of NASA’s Earth Observing System Data and Information System (EOSDIS) data center. The ORNL DAAC provides access to ~1,584 data collections, many of which are accessible as geospatial data resources, as of 12/31/2021.

**Table 2.a. Optional Information Regarding Ongoing or Planned Geospatial Data Sharing Activities.**

**2.5 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC 43 Sec 2808(a)(2), "collect, maintain, disseminate, and preserve geospatial data such that the resulting data, information, or products can be readily shared with other Federal agencies and non-Federal users." If the assessment is “made progress toward expectations,” include the actions your agency is taking to achieve the “meets expectations” level.**

Across the Department, about half of all the offices, laboratories, and field sites indicate that they utilize geospatial data. Majority of these users also support data collection, maintenance, dissemination, and presentation activities as well; although some utilize geospatial data only to generate maps, reports, and

similar products. Several resources have been developed to aid each Departmental element in their geospatial data collection, maintenance, dissemination, and preservation efforts, including detailed connection instructions for submitting data to GeoPlatform and providing geospatial best practices through DOE's Geospatial Science Program (GSP). In addition, several DOE geospatial data repositories have been identified and promoted across the GSP and through stakeholder meetings to aid in the collection, maintenance, dissemination, and preservation of geospatial data; several of these repositories provide access to Federal agencies and non-Federal users.



USC 43 Sec 2808(a)(3) Promote Data Integration

<b>GDA Requirement</b>	Promote the integration of geospatial data from all sources
<b>Agency Self-Assessment</b>	<b>Made Progress Toward Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 3.1</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Partial to Question 3.1</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Question 3.1</li> </ul> </li> </ul>

*Table 3. GDA USC 43 Sec 2808(a)(3) Promote Data Integration Requirement and Self-Assessment Criteria.*

**3.1 Has your agency taken action to promote integration of data from multiple sources?**

- Partial. The agency has taken appropriate action to promote data integration from some sources.

**3.1.a If yes or partial to Question 3.1, in what ways does your agency promote data integration from multiple sources? (Select all that apply)**

- Hosts a data sharing infrastructure where partners and/or data users can share and discover data.
- Develops a data integration toolkit or APIs to promote integration of agency data in external applications.
- Develops data integration processes to promote integration of non-agency data into applications.
- Provides data in openly standardized readable formats or as downloadable file packages.
- Develops data sharing agreements or Memoranda Of Agreement (MOA) with public and private partners for ingest or sharing of data.

**3.2 Brief Summary (Limit 2000 characters or 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC 43 Sec 2808(a)(3), "promote the integration of geospatial data from all sources." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.**

The Department currently offers 10 main data repositories the offer access to DOE produced geospatial data assets, offering support for geospatial data integration from all sources. These platforms target data from multiple partners and stakeholder, including some developed or contributed as part of a MOU, Interagency Agreement (IAA), or Cooperative Research and Development Agreement (CRADA). These data repositories aim to provide their data in open shareable format where appropriate, as well as provide functionality to support visualization, download, and access (including the use of tools and APIs).

USC 43 Sec 2808(a)(4) Ensure Records Retention Schedule for Geospatial Data

<b>GDA Requirement</b>	Ensure that data information products and other records created in geospatial data and activities are included on agency record schedules that have been approved by the National Archives and Records Administration
<b>Agency Self-Assessment</b>	<b>Made Progress Toward Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Questions 4.1 and 4.2</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Yes or Partial to Questions 4.1 and 4.2 or</li> <li>○ No to either 4.1 or 4.2</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Questions 4.1 and 4.2</li> </ul> </li> </ul>

**Table 4. GDA USC 43 Sec 2808(a)(4) Ensure Records Retention Schedule for Geospatial Data Requirement and Self-Assessment Criteria.**

**4.1 To ensure approved National Archives and Records Administration (NARA) schedules are in place, does the appraisal process for your agency to determine which data is archived include geospatial data?**

- Partial. Some agency programs are included in the archiving appraisal process for data information products and other records created in geospatial data and activities.

**4.2 Are geospatial data assets included on agency record schedules?**

- Partial. Some agency record schedules are inclusive of data information products and other records created in geospatial data and activities.

**4.3 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC 43 Sec 2808(a)(4), "ensure that data information products and other records created in geospatial data and activities are included on agency record schedules that have been approved by the National Archives and Records Administration." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.**

The Records Management Program office is working with Geospatial data owners across DOE, and their associated program records managers to address any gaps in the records management schedules for geospatial records.

USC 43 Sec 2808(a)(5) Allocate Resources for Geospatial Data Management Responsibilities

<b>GDA Requirement</b>	Allocate resources to fulfill the responsibilities of effective geospatial data collection, production, and stewardship with regard to related activities of the covered agency, and as necessary to support the activities of the Committee
<b>Agency Self-Assessment</b>	<b>Made Progress Toward Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 5.1</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Partial to Question 5.1</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Question 5.1</li> </ul> </li> </ul>

**Table 5. GDA USC 43 Sec 2808(a)(5) Allocate Resources for Geospatial Data Management Responsibilities Requirement and Self-Assessment Criteria.**

**5.1 Are geospatial program resources (including full- or part-time federal employees or contractors) allocated to fulfill the responsibilities of effective geospatial data collection, production, and stewardship with regard to related activities of the covered agency, and as necessary to support the activities of the Committee?** (Select the most appropriate answer and provide context for your agency’s response in Question 5.2.)

**Clarifying text:** Analyses of the requirements for the GDA are ongoing and it is anticipated that agencies will answer based on currently understood or anticipated requirements. Additional details can be provided in the 5.2 Brief Summary and in your agency’s 2-page PDF in Appendix B (if provided).

- Partial

**5.2 Brief Summary (Limit 2000 characters, or approximately 300 words):** Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC43 Sec 2808(a)(5), "allocate resources to fulfill the responsibilities of effective geospatial data collection, production, and stewardship with regard to related activities of the covered agency, and as necessary to support the activities of the Committee." If the assessment is “made progress toward expectations,” include the actions your agency is taking to achieve the “meets expectations” level.

To enhance DOE’s available geospatial program resources, efforts have been led by the Geospatial Science Program Management Office (GS-PMO), which includes participation from DOE’s Senior Agency Official for Geospatial Information (SAOGI), a Geospatial Information Officer (GIO), executive core representing DOE’s offices, laboratories, and field sites with primary geospatial activities, a geospatial science steering committee, and several working groups. Senior leadership from the GS-PMO is working to ensure funding is available to support governance activities of the GS-PMO as well as ensure each DOE office, lab, and field site effectively plan support to ensure effective geospatial data collection, production, and stewardship.

USC 43 Sec 2808(a)(6) Use Data Standards

<b>GDA Requirement</b>	Use the geospatial data standards, including the standards for metadata for geospatial data, and other appropriate standards, including documenting geospatial data with the relevant metadata and making metadata available through the GeoPlatform
<b>Agency Self-Assessment</b>	<b>Made Progress Toward Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Questions 6.1, 6.2 and 6.3</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Any other combination of Yes, No, and Partial to Questions 6.1, 6.2, and 6.3</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Questions 6.1, 6.2, and 6.3</li> </ul> </li> </ul>

*Table 6. GDA USC 43 Sec 2808(a)(6) Use Data Standards Requirement and Self-Assessment Criteria.*

**Clarifying Text:**

- ✓ Reestablishment of an active, resourced, and sustainable standards process with supporting governance is currently under consideration by the FGDC (Committee).
- ✓ The FGDC has not yet established any standards under the GDA, USC 43 Sec 2806.
- ✓ Answers should include information about all geospatial datasets owned or managed by your agency that are, or should be, available to the public in accordance with agency statutory authorities and missions; not just National Geospatial Data Asset (NGDA) Datasets.

**6.1. Are defined data standards used in collecting, processing, and/or disseminating the data being addressed? (Select all that apply)**

- Partial. Some eligible geospatial datasets use FGDC-endorsed data standards.
- Partial. Some eligible geospatial datasets use data standards that comply with OMB Circular A-119.

**6.2 Does your agency maintain its metadata in an FGDC-endorsed, or ISO-compliant geospatial metadata standard format? (Select all that apply)**

**Clarifying text:** Question does not include legacy datasets that are static and no longer modified or otherwise managed. Also, see the list of endorsed FGDC-endorsed standards

<https://www.fgdc.gov/standards/>.

- Partial. Some eligible datasets have well maintained FGDC-endorsed or current ISO-compliant geospatial metadata.
- Partial. Some eligible datasets have FGDC-endorsed or current ISO-compliant geospatial metadata, that needs to be reviewed or refreshed.

### **6.3 Is your agency geospatial metadata available through GeoPlatform.gov?**

**Clarifying Text:** For the scope of the requirement, USC 43 Sec 2808(b)(1)(A)(iv) provides for “includ[ing] download access to all open geospatial data directly or indirectly collected by covered agencies” and Sec 2808(a)(6) requires that “metadata [be] available through the GeoPlatform.”

- Partial. Some metadata for some public datasets are available via GeoPlatform.gov.

**6.4 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC 43 Sec 2808(a)(6), “use the geospatial data standards, including the standards for metadata for geospatial data, and other appropriate standards, including documenting geospatial data with the relevant metadata and making metadata available through the GeoPlatform.” If the assessment is “made progress toward expectations,” include the actions your agency is taking to achieve the “meets expectations” level.**

Several resources have been developed and made available to the Department through its internal MS-Sharepoint platform, Energy Hub, to ensure alignment to and use of geospatial data standards. In addition to providing this information on Energy Hub, these materials have also been shared at a stakeholder meetings for DOE’s geospatial community. Furthermore, to aid in the inclusion of appropriate metadata through GeoPlatform, connection information and details were also shared at these events and posted on Energy Hub for DOE access.

USC 43 Sec 2808(a)(7) Support Coordination and Partnerships

<b>GDA Requirement</b>	Coordinate and work in partnership with other Federal agencies, agencies of State, tribal, and local governments, institutions of higher education, and the private sector to efficiently and cost-effectively collect, integrate, maintain, disseminate, and preserve geospatial data, building upon existing non-federal geospatial data to the extent possible
<b>Agency Self-Assessment</b>	<b>Made progress toward expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Questions 7.1 and Yes or Not applicable to Question 7.2</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Any combination of Yes, Not applicable, Partial, or No to Questions 7.1 and 7.2</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Questions 7.1 and 7.2</li> </ul> </li> </ul>

*Table 7. GDA USC 43 Sec 2808(a)(7) Support Coordination and Partnerships Requirement and Self-Assessment Criteria.*

**7.1 Are there processes in place to ensure that, when appropriate, partners and stakeholders have visibility into agency geospatial data management activities (e.g., collection, integration, maintenance, dissemination, and preservation)? (Select all that apply)**

- Partial. There are processes in place for some agency mission areas, but not others.

**7.1.a If yes or partial to Question 7.1, which external partners and stakeholders are involved in data management activities? (Select all that apply)**

**Clarifying text:** The selection list provided was taken from the GDA, USC 43 Sec 2803(b)(C).

- Other federal agencies
- States
- Local governments
- Regional governments
- Tribal governments
- Private sector entities
- Geospatial information user identities
- Professional associations
- Nonprofit associations
- Academia
- Licensed geospatial data acquisition professionals

**7.1.b If yes or partial to Question 7.1, what processes are in place to ensure partners and stakeholders are involved? (Select all that apply)**

**Clarifying text:** When answering this question think about activities such as using surveys, listening sessions, Request for Information, booths at stakeholder conferences.

- Market research
- Partnership outreach activities
- Expert consultations
- Advisory committee(s)
- Working group(s) and sub-committee(s)
- Steering committees
- Councils
- Feedback opportunities (e.g., contact email/phone, call center)
- Memoranda of Understanding

**7.2 Does your agency build upon existing non-federal geospatial data? (Select all that apply)**

- Partial. Agency builds upon some existing non-federal geospatial data.

**7.2.a If yes or partial to Question 7.2, what ways do you build upon existing non-federal geospatial data? (Select all that apply)**

- Procurement/acquisition/grant
- Research partnership
- Cooperative data collection or crowd sourcing
- Mission assignments or Interagency Agreements
- MOAs/data sharing agreements

**7.3 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC 43 Sec 2808(a)(7), “coordinate and work in partnership with other Federal agencies, agencies of State, tribal, and local governments, institutions of higher education, and the private sector to efficiently and cost-effectively collect, integrate, maintain, disseminate, and preserve geospatial data, building upon existing non-Federal geospatial data to the extent possible.” If the assessment is “made progress toward expectations,” include the actions your agency is taking to achieve the “meets expectations” level.**

There are several efforts across the Department to coordinate and work in partnership with other federal agencies, agencies of State, tribal, and local governments, academia, and the private sector. Several of DOE's data repositories work to collect, integrate, maintain, disseminate, and preserve geospatial data from DOE, other agencies, academia, and the public sector efficiently and cost-effectively. There are also several CRADAs, MOUs, and other partnership efforts that build upon existing non-federal geospatial data to the extent possible.

USC 43 Sec 2808(a)(8) Promote Application of Geospatial Data Assets

<b>GDA Requirement</b>	Use geospatial information to— (A) make Federal geospatial information and services more useful to the public; (B) enhance operations; (C) support decision making; and (D) enhance reporting to the public and to Congress;
<b>Agency Self-Assessment</b>	<b>Made Progress Toward Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to 8.1, 8.2 and 8.3</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Any combination of Yes, Partial and No to Questions 8.1, 8.2 and 8.3</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to 8.1, 8.2 and 8.3</li> </ul> </li> </ul>

*Table 8. GDA USC 43 Sec 2808(a)(8) Promote Application of Geospatial Data Assets Requirement and Self-Assessment Criteria.*

**USC 43 Sec 2808(a)(8)(A) make Federal geospatial information and services more useful to the public;**

**8.1 Does your agency leverage geospatial information to make federal geospatial information and services more useful to the public?**

**Clarifying Text:** A number of examples of leveraging geospatial information for public use include, but are not limited to:

- ✓ Making the data accessible
- ✓ Providing data in ingestible services
- ✓ Providing maps or visualizations of geospatial data - like a map of an agency’s jurisdictional regions so the public can identify their region on a website
- ✓ Provided data in an online application – like the COVID-19 case tracker
- ✓ Outreach/communications for user feedback
- ✓ Making data open, standardized, or machine readable
- Yes

**USC 43 Sec 2808(a)(8)(B) enhance operations; USC 43 Sec 2808(a)(8)(C) support decision making**

**8.2 Does your agency leverage geospatial information to improve operations and decision-making?**

- Partial. Agency leverages geospatial information in operations improvements or decision-making in some programs.



**USC 43 Sec 2808(a)(8)(D) enhance reporting to the public and to Congress**

**8.3 Does your agency leverage geospatial information to enhance reporting to the public or to Congress? (Select all that apply)**

- Partial. Agency leverages some geospatial information to enhance either public or Congressional reporting.

**8.3.a If yes or partial, for which of these audiences does your agency leverage geospatial information to enhance reporting? (Select all that apply)**

- Public reports (e.g., fact sheets, data briefs, Annual reports, other published agency reports).
- Congressional reports.
- Internal agency and leadership plans, reports and communications.

**8.4 Optional Question: Would the agency like to provide up to 5 key examples and links that demonstrate how geospatial data assets are used, internally and externally, to make federal geospatial information and services more useful to the public; enhance operations; support decision making; and/or enhance reporting to the public and to Congress?**

- Yes

Example	Link
Tracking Restoration And Closure (TRAC) is a web-based application that combines infographics, annual statistics, and historical facts to clearly communicate the current status of groundwater contamination cleanup efforts at Department of Energy Office of Environmental Management (DOE-EM) sites across the nation. TRAC is a tool to share information about and provide transparency into environmental remediation progress at these cleanup sites.	<a href="https://www.pnnl.gov/projects/trac">https://www.pnnl.gov/projects/trac</a>
DOE's U.S. Energy Information Administration (EIA) frequently uses geospatial data and information to support their energy analyses and provide geospatial data and tools to the public	<a href="https://www.eia.gov">https://www.eia.gov</a>
DOE's Office of Cybersecurity, Energy Security, and Emergency Response frequently use geospatial data and assets to enhance reporting to the public, a example includes updates on Extreme Cold and Winter Weather	<a href="https://www.energy.gov/sites/prod/files/2021/02/f82/TLP-WHITE_DOE%20Situation%20Update_Cold%20%20Winter%20Weather_%231.pdf">https://www.energy.gov/sites/prod/files/2021/02/f82/TLP-WHITE_DOE%20Situation%20Update_Cold%20%20Winter%20Weather_%231.pdf</a>
In 2003, DOE created a network of seven Regional Carbon Sequestration Partnerships (RCSPs) to support the development of regional infrastructure for carbon capture and storage (CCS). As each RCSP, supported by academia and private industry, begins to conclude their projects, their geospatial data assets are being uploaded and shared with the public, to further support research, operations, decisions, and reporting through the National Energy Technology Laboratory's Energy Data eXchange.	<a href="https://edx.netl.doe.gov/group/?q=RCSP&amp;sort=title+asc">https://edx.netl.doe.gov/group/?q=RCSP&amp;sort=title+asc</a>

Example	Link
<p>The Geospatial Environmental Mapping System (GEMS) was designed to provide dynamic mapping and environmental monitoring data display for Sites managed by the U.S. Department of Energy (DOE) Office of Legacy Management. The information made available and the environmental data display tools developed for GEMS are the result of input from various stakeholders including DOE and contractor staff, regulatory agencies, and members of the public.</p>	<p><a href="https://gems.lm.doe.gov">https://gems.lm.doe.gov</a></p>

**Table 8. a. Example Benefits of Federal Geospatial Data Assets.**

**8.5 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC 43 Sec 2808(a)(8), "use geospatial information to—**

- (A) make federal geospatial information and services more useful to the public;**
- (B) enhance operations;**
- (C) support decision making; and**
- (D) enhance reporting to the public and to Congress;"**

**If the assessment is “made progress toward expectations,” include the actions your agency is taking to achieve the “meets expectations” level.**

Across the Department, there are numerous past and on-going efforts that promote the use of geospatial data assets to make federal geospatial information and services more useful to the public (e.g., through the use of public data repositories and providing data as services), as well as enhance operations and support decision making, both within DOE, such as the use of geospatial data to support facilities usage reports and maintenance planning, as well as externally by providing geospatial data and products to help enhance operations or guide decisions for other agencies (federal, state, tribal, and local) and the private sector. Lastly, several of DOE's reports frequently use DOE and other geospatial data to enhance reporting to the public, in various formats, as well as to Congress.

USC 43 Sec 2808(a)(9) Protection of Privacy and Confidentiality

<b>GDA Requirement</b>	Protect personal privacy and maintain confidentiality in accordance with Federal policy and law
<b>Agency Self-Assessment</b>	<b>Meets Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Questions 9.1 and 9.2</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Yes or Partial to Questions 9.1 or 9.2</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Questions 9.1 or 9.2</li> </ul> </li> </ul>

**Table 9. GDA USC 43 Sec 2808(a)(9) Protection of Privacy and Confidentiality Requirement and Self-Assessment Criteria.**

**9.1 Are the agency’s Privacy Threshold Assessment or Privacy Impact Assessment (PTA/PIA) processes inclusive of your agency’s geospatial data?**

**Clarifying Text:** The Privacy Threshold Assessment/Analysis would be the mechanism that agencies use to determine if PII is, or is not, collected and whether a Privacy Impact Assessment needs to be done for an information system.

- Yes. The agency’s PTA/PIA processes are inclusive of all agency data.

**9.2 Are the IT systems and applications that maintain and support your agency’s geospatial data covered by a current Authorization to Operate (ATO)?**

- Yes. All agency geospatial data is housed in a system covered by a current ATO and is appropriately protected in accordance with applicable laws and regulations.

**9.3 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC 43 Sec 2808(a)(9), “protect personal privacy and maintain confidentiality in accordance with Federal policy and law.” If the assessment is “made progress toward expectations,” include the actions your agency is taking to achieve the “meets expectations” level.**

DOE is constantly working within our agency's policies and procedures to protect personal privacy and maintain confidentiality in accordance with federal policy and law. Specifically, those accounted for in DOE Orders 206.1 and 471.7. To date, the agency’s PIA processes are inclusive of all agency data involving personally identifiable information (PII), which includes geospatial data. The majority of DOE's data is housed within internal systems and covered under a current ATO and appropriately protected in accordance with applicable laws and regulations. These systems are subject to continuous monitoring and evaluation to ensure compliance.

USC 43 Sec 2808(a)(10) Declassified Data

<b>GDA Requirement</b>	Participate in determining, when applicable, whether declassified data can contribute to and become a part of the National Spatial Data Infrastructure
<b>Agency Self-Assessment</b>	<b>Fails to Meet Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes or Not applicable to Question 10.1</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Question 10.1</li> </ul> </li> </ul>

*Table 10. GDA USC 43 Sec 2808(a)(10)Declassified Data Requirement and Self-Assessment Criteria.*

**10.1 If your agency handles declassified geospatial datasets, does it have a process to review these declassified datasets for inclusion in the NSDI?**

**Clarifying text:** Sharing standards-based data on the Internet using standard protocols and formats makes it part of the NSDI.

- No. The agency does not have a process to review declassified datasets for inclusion in the NSDI.

**10.2 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC 43 Sec 2808(a)(10), “participate in determining, when applicable, whether declassified data can contribute to and become a part of the National Spatial Data Infrastructure.” If the assessment is “fails to meet expectations,” include the actions your agency is taking to achieve the “meets expectations” level.**

Efforts to refine DOE's current declassification review process to add additional review criteria to determine if these declassified data can contribute to and become part of the National Spatial Data Infrastructure (NSDI) are on-going, awaiting further clarification from FGDC in regards to effective contribution of data to the NSDI as the NSDI strategy begins to be implemented.

USC 43 Sec 2808(a)(11) Non-Duplication of Data

<b>GDA Requirement</b>	Search all sources, including the GeoPlatform, to determine if existing Federal, State, local, or private geospatial data meets the needs of the covered agency before expending funds for geospatial data collection
<b>Agency Self-Assessment</b>	<b>Made Progress Toward Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ No to Question 11.1 or</li> <li>○ Yes to Questions 11.1 and 11.2 and all agency appropriate responses to Question 11.3</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 11.1 and Partial or No to Question 11.2 and agency appropriate responses to Question 11.3</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 11.1 and No to Question 11.2 and <i>No additional assessments are done</i> selected for Question 11.3</li> </ul> </li> </ul>

**Table 11. GDA USC 43 Sec 2808(a)(11) Non-Duplication of Data Requirement and Self-Assessment Criteria.**

**11.1 Has your agency expended funds for geospatial data collection for the reporting period?**

**Clarifying text:** “Expended funds” may include grant distribution, agency collection, or procurement of data.

- Yes

**11.2 If yes to Question 11.1, and as per [OMB Circular A-11 Guidance](#) (Section 25, Page 3), has your agency searched the [GeoPlatform](#) prior to making planned geospatial data investments to determine if an existing source for that data is available and meets mission requirements?**

- Partial. Agency has searched GeoPlatform prior to some geospatial data investments.

**11.3 If yes to Question 11.1, has your agency searched other sources to determine if data necessary to meet requirements already exists (either within or outside the agency) before collecting or acquiring new data? (Select all that apply)**

- Market research
- Cross-agency or partner coordination
- Expert consultation
- Database search

**11.4 Optional Question: If yes to Question 11.1, would the agency like to provide up to 5 examples of cases where the agency did find existing data that met its needs or partnered on a joint data acquisition?**

- No

**11.5 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC 43 Sec 2808(a)(11), "Search all sources, including the GeoPlatform, to determine if existing Federal, State, local, or private geospatial data meets the needs of the covered agency before expending funds for geospatial data collection." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.**

DOE Orders 413.3b and Guidance 415.1-2 do prescribe an analysis of options currently available and alternatives analyses for any new data acquisitions before allocating funds to DOE projects. Additional work is underway to ensure explicit language for geospatial data is included through the procurement processes to ensure GeoPlatform and other authoritative sources are searched prior to all geospatial data investments. Additionally, lists of common geospatial data sources, comprised of several federal, state, local, and commercial sources, have been shared across DOE to support these efforts and ensure compliance.

USC 43 Sec 2808(a)(12) Ensuring High-Quality Data

<b>GDA Requirement</b>	To the maximum extent practicable, ensure that a person receiving Federal funds for geospatial data collection provides high-quality data
<b>Agency Self-Assessment</b>	<b>Made Progress Toward Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ No to Question 12.1 <b>or</b></li> <li>○ Yes to Question 12.1 and <b>all</b> appropriate selections for Question 12.2</li> </ul> </li> <li>• <b>Made progress toward expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 12.1 and <b>some</b> agency appropriate selections for Question 12.2</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 12.1 and <i>No official documented Quality Assurance/Quality Control (QA/QC) process is in place for acquisition of geospatial data selected for Question 12.2</i></li> </ul> </li> </ul>

**Table 12. GDA USC 43 Sec 2808(a)(12) Ensuring High-Quality Data Requirement and Self-Assessment Criteria.**

**12.1 Has your agency expended funds for geospatial data collection from non-federal sources during the reporting period?**

**Clarifying text:** The requirement for “a person receiving Federal funds” has been interpreted to mean non-federal organizations or corporations who are, for example, contract or grant recipients.

- Yes

**12.2 If yes to Question 12.1, what methods does your agency employ to ensure quality in geospatial data collected from non-federal sources?** (Check all that apply and use the “other” textbox to briefly describe additional methods used to ensure quality for geospatial data acquired by procurement or grant process)

- Evaluate data for quality prior to any acquisition.
- Geospatial data quality standards are specified in contract documents.
- Independent verification and validation (IV&V).
- Staff data experts review and approve geospatial data deliverables.
- Data standards are enforced through automated processes such as database controls or script tools.
- The agency acquires data from another federal agency that is responsible for QA/QC.

**12.3 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC 43 Sec 2808(a)(12), "to the maximum extent practicable, ensure that a person receiving Federal funds for geospatial data collection provides high-quality data." If the assessment is "made progress toward expectations," include the actions your agency is taking to achieve the "meets expectations" level.**

DOE performs a range of actions to ensure quality geospatial data are collected from non-federal sources, including the actions mentioned in response to question 12.2. Specifically, DOE Order 414 requires Quality Assurance Programs that would implicitly account for geospatial data. Additional work is being performed to guide geospatial data quality assurance that ensures consistent review procedures and high-quality geospatial data is collected when any funds are expended for geospatial data collection.



USC 43 Sec 2808(a)(13) Point of Contact

<b>GDA Requirement</b>	Appoint a contact to coordinate with the lead covered agencies for collection, acquisition, maintenance, and dissemination of the National Geospatial Data Asset data themes used by the covered agency
<b>Agency Self-Assessment</b>	<b>Meets Expectations</b>
<b>KEY to Self-Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Meets expectations =</b> <ul style="list-style-type: none"> <li>○ Yes to Question 13.1</li> </ul> </li> <li>• <b>Fails to meet expectations =</b> <ul style="list-style-type: none"> <li>○ No to Question 13.1</li> </ul> </li> </ul>

*Table 13. GDA USC 43 Sec 2808(a)(13) Point of Contact Requirement and Self-Assessment Criteria.*

**13.1 Has your agency appointed a POC to coordinate with the lead covered agencies for collection, acquisition, maintenance, and dissemination of the NGDA data themes used by the covered agency?**

**Clarifying text:** According to the GDA Definitions, USC 43 Sec 2801(12), NGDA data theme means “the NGDA core geospatial datasets including electronic records and coordinates relating to a topic or subject designated under USC 43 Sec 2805.” Also, OMB Circular A-16 may include additional guidance on covered agency responsibilities for theme coordination.

- Yes. An agency POC has been appointed.

**13.2 Brief Summary (Limit 2000 characters, or approximately 300 words): Please provide a brief description of agency actions and accomplishments in FY2022 in addressing USC 43 Sec 2808(a)(13), "appoint a contact to coordinate with the lead covered agencies for collection, acquisition, maintenance, and dissemination of the National Geospatial Data Asset data themes used by the covered agency." If the assessment is “fails to meet expectations,” include the actions your agency is taking to achieve the “meets expectations” level.**

DOE's Chief Data Officer and Senior Agency Official for Geospatial Information were appointed in July 2018. In 2022, a Geospatial Information Officer was appointed to lead coordination efforts with internal and external stakeholders. Additionally, several POCs from across the agency are engaged with NGDA subcommittees for data themes used by DOE.

## Optional Highlight - a Key GDA Related Achievement

This optional section provides an opportunity for the Agency to briefly highlight a key achievement in making progress towards meeting GDA requirements or advancing geospatial activities. Please note that this achievement may have already been highlighted in the Brief Summaries or the optional 2-page PDF submission in Appendix B (if provided). (Limit 2000 characters, or approximately 300 words)

A key GDA related achievement relates to the hosting of the first annual DOE geospatial science poster competition. In celebration of National GIS Day, the DOE Geospatial Science Program hosted a poster competition in DOE's James V. Forrestal building from November 9-16th. Twenty-two posters were entered from DOE national laboratories and program offices across the country. Ann Dunkin (DOE CIO), Joshua Delmonico (Acting FGDC Director), and Harvey Simon (EPA-GIO) evaluated them against the four goals of DOE's Geospatial Science Program:

1. Expand and mature DOE geospatial data sources to ensure they are robust, secure, easily accessible, and support a wide range of needs to meet DOE's mission.
2. Promote data sharing to facilitate data discovery, accessibility, use, integrity, and integration.
3. Govern and manage geospatial data strategically to ensure accountability, effective development, security, quality, and management of DOE geospatial data resources.
4. Expand DOE geospatial leadership, workforce development opportunities, and collaborative geospatial partnerships to meet DOE as well as national needs and priorities.

To complement the poster competition, daily brown-bag seminars were provided to demonstrate how Departmental elements across DOE integrate geospatial science into everyday workflows to increase efficiency, inform data-driven decisions, and provide intuitive, transparent access to organizational information. Exposure to these implementations is meant to demonstrate the business value of geospatial science and encourage collaboration across DOE. The brown-bag seminars, listed in the schedule below, will provide real-world examples of how geospatial science is being used across DOE.

## 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.”

### **2.1 Does your agency ensure that all eligible geospatial data is managed so it can be readily shared and is it provided in open formats, as appropriate? (This will include agency open government and transparency guidelines.) (Select all that apply)**

- Data is currently openly shared to the public.
- Data is currently shared on a limited basis with federal partners.
- Data is currently shared on a limited basis with non-federal users.
- No data is currently shared to other federal agencies or non-federal users. (Note: For some agencies, this may be an appropriate response).

### **2.2 Does your agency disseminate eligible geospatial data in a way that can be readily shared in open formats (for example, using machine readable formats or searchable metadata)?**

- Yes, eligible geospatial data and metadata are shared in open formats.
- Eligible geospatial data are shared in open formats, but not all metadata is open format.
- Eligible geospatial metadata are shared in open formats, but not all data are open format.
- Some geospatial data, and its metadata, is shared in open formats.
- No geospatial data is shared, or geospatial data is only shared in proprietary formats.

### **2.3 Are maintenance processes in place to ensure other federal agencies and non-federal users have access to the most recent data in addition to data and metadata updates and corrections?**

- Yes, agency policies exist to ensure all programs implement data maintenance processes.
- Some programs/datasets have maintenance processes in place.
- Maintenance processes are in development or are partially implemented.
- No maintenance processes are currently in place or in development.

### **3.1.a If yes or partial to Question 3.1, in what ways does your agency promote data integration from multiple sources? (Select all that apply and use the “other” textbox to briefly describe additional methods)**

- Hosts a data sharing infrastructure where partners and/or data users can share and discover data.
- Develops a data integration toolkit or APIs to promote integration of agency data in external applications.
- Develops data integration processes to promote integration of non-agency data into applications.
- Provides data in openly standardized readable formats or as downloadable file packages.
- Develops data sharing agreements or Memoranda Of Agreement (MOA) with public and private partners for ingest or sharing of data.
- Other (Textbox provided)

**6.1. Are defined data standards used in collecting, processing, and/or disseminating the data being addressed? (Select all that apply)**

- Yes. Eligible geospatial datasets use FGDC endorsed data standards under OMB A-16, 2002, or more current versions of those endorsed standards.
- Yes. Eligible geospatial datasets use data standards that comply with OMB Circular A-119.
- Partial. Some eligible geospatial datasets use FGDC-endorsed data standards.
- Partial. Some eligible geospatial datasets use data standards that comply with OMB Circular A-119.
- No. Eligible agency geospatial datasets do not use FGDC-endorsed data standards or standards that comply with OMB Circular A-119.

**6.2 Does your agency maintain its metadata in an FGDC-endorsed, or ISO-compliant geospatial metadata standard format? (Select all that apply)**

**Clarifying text:** Question does not include legacy datasets that are static and no longer modified or otherwise managed. Also, see the list of endorsed FGDC-endorsed standards

<https://www.fgdc.gov/standards/>.

- Yes. Eligible non-legacy datasets have well maintained FGDC-endorsed or current ISO-compliant geospatial metadata.
- Partial. Some eligible datasets have well maintained FGDC-endorsed or current ISO-compliant geospatial metadata.
- Partial. Some eligible datasets have FGDC-endorsed or current ISO-compliant geospatial metadata, that needs to be reviewed or refreshed.
- No. Agency datasets do not use FGDC-endorsed or current ISO-compliant geospatial metadata standards.

**7.1 Are there processes in place to ensure that, when appropriate, partners and stakeholders have visibility into agency geospatial data management activities (e.g., collection, integration, maintenance, dissemination and preservation)?**

- Yes. There are processes in place for all agency mission areas.
- Yes. There are processes in place, but some mission areas do not have requirements for geospatial data management partnerships.
- Partial. There are processes in place for some agency mission areas, but not others.
- No. There are no processes in place. (Skip to question 7.3)

**7.1.a If yes or partial to Question 7.1, which external partners and stakeholders are involved in data management activities?** (Select all that apply and use the “other” textbox to add additional partners or stakeholders)

**Clarifying text:** The selection list provided was taken from the GDA, USC 43 Sec 2803(b)(C).

- Other federal agencies
- States
- Local governments
- Regional governments
- Tribal governments
- Private sector entities
- Geospatial information user industries
- Professional associations
- Scholarly associations
- Nonprofit organizations
- Academia
- Licensed geospatial data acquisition professionals
- Other (Textbox provided)

**7.1.b If yes or partial to Question 7.1, what processes are in place to ensure partners and stakeholders are involved?** (Select all that apply and use the “other” textbox to add additional processes)

**Clarifying text:** When answering this question think about activities such as using surveys, listening sessions, Request for Information, booths at stakeholder conferences.

- Market research
- Partnership outreach activities
- Expert consultations
- Advisory committee(s)
- Working group(s) and sub-committee(s)
- Steering committees
- Councils
- Engage with trade groups
- Feedback opportunities (e.g., contact email/phone, call center)
- Federal Register Notices
- Memoranda of Understanding
- Use other public comment processes
- Other (Textbox provided)

## **7.2 Does your agency build upon existing non-federal geospatial data?**

- Yes. Agency builds upon existing non-federal geospatial data to the extent possible.
- Not applicable: no existing applicable data exists.
- Partial. Agency builds upon some existing non-federal geospatial data.
- No. Agency does not build upon existing non-federal geospatial data.

### **7.2.a If yes or partial to Question 7.2, what ways do you build upon existing non-federal geospatial data?** (Select all that apply and use the “other” textbox to add additional ways)

- Procurement/acquisition/grant
- Research partnership
- Cooperative data collection or crowd sourcing
- Mission assignments or Interagency Agreements
- MOAs/data sharing agreements
- Other (Textbox provided)

## **8.3 Does your agency leverage geospatial information to enhance reporting to the public or to Congress?**

- Yes. Agency broadly leverages geospatial information to enhance public and Congressional reporting.
- Not applicable: Agency does not leverage geospatial information in published reports.
- Partial. Agency leverages some geospatial information to enhance either public or Congressional reporting.
- No. Agency does not leverage geospatial information to enhance either public or Congressional reporting.

### **8.3.a If yes or partial, for which of these audiences does your agency leverage geospatial information to enhance reporting?** (Select all that apply)

- Public reports (e.g., fact sheets, data briefs, Annual reports, other published agency reports).
- Congressional reports.
- Internal agency and leadership plans, reports and communications.
- Not applicable: agency does not leverage geospatial information in published reports.

**11.3 If yes to Question 11.1, has your agency searched other sources to determine if data necessary to meet requirements already exists (either within or outside the agency) before collecting or acquiring new data?** (Select all that apply and use the “other” textbox to briefly describe additional sources)

- Market research
- Cross-agency or partner coordination
- Expert consultation
- Database search
- Agency follows a documented process or official policy
- No additional assessments are done
- Other (Textbox provided)

**12.2 If yes to Question 12.1, what methods does your agency employ to ensure quality in geospatial data collected from non-federal sources?**

(Check all that apply and use the “other” textbox to briefly describe additional methods used to ensure quality for geospatial data acquired by procurement or grant process)

- Evaluate data for quality prior to any acquisition.
- Geospatial data quality standards are specified in contract documents.
- Independent verification and validation (IV&V).
- Staff data experts review and approve geospatial data deliverables.
- Data standards are enforced through automated processes such as database controls or script tools.
- The agency acquires data from another federal agency that is responsible for QA/QC.
- No official documented QA/QC process is in place for acquisition of geospatial data.
- Other (Textbox provided)