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FEDERAL GEOGRAPHIC DATA COMMITTEE

2023 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

January 19, 2024

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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.[1]

The GDA Section 2805(b)(3)(E)(I) requires annual 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 Lead Covered Agency NGDA Theme Annual Performance Report (LCA NGDA Theme Report) covers the Fiscal Year 2023 (FY2023), October 1, 2022 through September 30, 2023. The report provides an update on progress made at the NGDA Portfolio and FGDC agency level in support of meeting GDA requirements. This is the fourth annual report which is based on a template and survey to facilitate consistency across the FGDC NGDA Themes. 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. The FGDC summary is required to include a rating for each responsibility of "meets expectations," "made progress toward expectations," or "fails to meet expectations." These ratings are included in this report and are used to generate part of the annual FGDC Summary Report. The summary report along with NGAC comments are included in the biennial FGDC Report to Congress. This and other required reports and information are available online via the FGDC GDA pages.[2]

The FY2023 LCA NGDA Theme annual report continues to use 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."

Executive Summary

This fourth annual FGDC NGDA Theme report provides insights into cross-cutting FGDC portfolio-level activities and theme-specific agency-level activities that will document progress in meeting GDA requirements.

At the theme level, this report provides updates to summaries and information for ongoing processes, procedures, and actions within agencies that manage NGDA datasets, that were provided in previous annual reports.

At the portfolio level, this report highlights continued efforts across the FGDC agencies and the NGDA themes to evaluate the requirements of the GDA in the context of the goals and objectives of the National Spatial Data Infrastructure (NSDI) Strategic Plan.[3] Based on an emerging cross-agency understanding of these requirements, the FGDC NGDA Theme community is undertaking efforts to establish governance processes that build on accomplishments, provide value, and ensure efficiency. In alignment with GDA requirements, the NGDA Theme Leads developed an NGDA Theme Strategic Plan template which was approved by the FGDC Steering Committee in July 2023. The template can be tailored to each theme with goals and objectives that are cross walked with all GDA requirements and the NSDI Strategic Plan. This template provides flexibility and allows agencies that manage NGDA data to

identify actions and accomplishments that align with the established goals, objectives, and anticipated outcomes, while being sensitive to technological, economic, and organizational constraints and opportunities of the agencies managing NGDA data. NGDA Theme Leads will develop and finalize their individual theme strategic plans by the end of FY2024.

The efforts documented in this report reflect that all FGDC NGDA Themes are making progress towards meeting GDA requirements.

Official Theme Related Information

As per the OMB Circular A-16 Supplemental Guidance (A-16 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[4] NGDA Portfolio Community[5] 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 A-16 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 portfolio development including activities associated with standards and guidance, among other things.

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.[6] This information is kept up-to-date in the NGDA Portfolio Community. From the NGDA Portfolio Community page, the NGDA Theme Leads and NGDA Theme Executive Champions lists are found on the Contacts[7] page.

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 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 is maintained on the GeoPlatform in the [NGDA Portfolio Community](#). 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	U.S. Department of Transportation, Federal Highway Administration
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)	U.S. Department of Transportation, Bureau of Transportation Statistics
145	North American Rail Network Lines	U.S. Department of Transportation, Federal Railroad Administration
146	North American Rail Network Nodes	U.S. Department of Transportation, Federal Railroad Administration
147	Runway Lines	U.S. Department of Transportation, Federal Aviation Administration
148	National Transit Map Routes	U.S. Department of Transportation, Bureau of Transportation Statistics
149	National Transit Map Stops	U.S. Department of Transportation, Bureau of Transportation Statistics
150	Inland Electronic Navigational Charts (IENC)	U.S. Department of Defense, U.S. Army Corps of Engineers
151	Waterway Locks (National) - National Geospatial Data Asset (NGDA) Locks	U.S. Department of Defense, U.S. Army Corps of Engineers
152	Ports (National) - National Geospatial Data Asset (NGDA) Ports	U.S. Department of Defense, U.S. Army Corps of Engineers
153	Navigable Waterway Routes (National) - National Geospatial Data Asset (NGDA) Waterway Lines	U.S. Department of Defense, U.S. Army Corps of Engineers
154	Navigable Waterway Nodes (National) - National Geospatial Data Asset (NGDA) Waterway Nodes	U.S. Department of Defense, U.S. Army Corps of Engineers
155	Series Information for All Roads County-based TIGER/Line Shapefiles, Current	U.S. Department of Commerce, U.S. Census Bureau

Table 2. NGDA Theme Datasets.

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

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

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

- Agency participated in cross-agency activities related to the development of the Theme Strategic Plan Template
- 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) coordinate changes to the Portfolio inventory for Steering Committee approval
- Theme Lead(s) coordinate Theme Hub Sites on the GeoPlatform with established points of contact (e.g., Site Maintainers, site editors)
- Theme Lead(s) update Dataset Managers and other points of contact (e.g., metadata POC)
- Theme Lead(s) evaluate standards applicable to the Portfolio inventory
- 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

Managing Theme-Related Content on GeoPlatform

During FY2023, the NGDA Themes transitioned from legacy GeoPlatform Theme sites to new Hub-based Theme sites.[8] As part of the transition, the themes established by consensus, the minimum required site content. All eighteen themes were transitioned and updated to reflect this minimum content requirement. Individual themes have the flexibility to publicly display and manage additional information from a variety of sources related to their theme. The new Hub sites provide end users, stakeholders, and partners with a place to find consistent theme-related information and access to NGDA datasets and services.

Transportation Theme Progress Toward Meeting Requirements

Background

This section provides Theme-related updates to information provided in previous annual reports and designates the Lead Covered Agency self-assessment for each of the four GDA NGDA Data Theme Requirements.

A. Geospatial Data Standards

The following table describes the GDA requirements for Section 2805(b)(3)(A) pertaining to geospatial data standards, and the Lead Covered Agency's self-assessment for meeting those requirements.

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**

Note: The lead covered agency reports that no change was made to the self-assessment for this requirement from the prior year. FGDC efforts to address Sec 2805(b)(3)(A) are summarized under the "FGDC Portfolio-Level Progress Toward Meeting GDA NGDA Data Theme Requirements" section below.

B. Nationwide Population of the Data Theme

The following table describes the GDA requirements for Section 2805(b)(3)(B) pertaining to a plan for nationwide population of the data theme, and the Lead Covered Agency's self-assessment for meeting those requirements.

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	**Meets Expectations**

Note: The lead covered agency reports that no change was made to the self-assessment for this requirement from the prior year. FGDC efforts to address Sec 2805(b)(3)(B) are summarized under the "FGDC Portfolio-Level Progress Toward Meeting GDA NGDA Data Theme Requirements" section below.

C. Establish Goals That Support the NSDI Strategic Plan

The following table describes the GDA requirements for Section 2805(b)(3)(C) pertaining to establishing goals that support the NSDI Strategic Plan, and the Lead Covered Agency's self-assessment for meeting those requirements.

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	**Meets Expectations**

References: NSDI Strategic Plan 2021-2024

Note: The lead covered agency reports that no change was made to the self-assessment for this requirement from the prior year. FGDC efforts to address Sec 2805(b)(3)(C) are summarized under the "FGDC Portfolio-Level Progress Toward Meeting GDA NGDA Data Theme Requirements" section below.

D. Addressing User Needs

The following table describes the GDA requirements for Section 2805(b)(3)(D) pertaining to addressing user needs, and the Lead Covered Agency's self-assessment for meeting those requirements.

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	**Meets Expectations**

Note: The lead covered agency reports that no change was made to the self-assessment for this requirement from the prior year. FGDC efforts to address Sec 2805(b)(3)(D) are summarized under the "FGDC Portfolio-Level Progress Toward Meeting GDA NGDA Data Theme Requirements" section below.

FGDC Portfolio-Level Progress Toward Meeting GDA NGDA Data Theme Requirements

Background

This section highlights the actions that reflect FGDC Portfolio-level progress towards meeting GDA requirements.

Since the passage of the GDA, FGDC agencies and the Theme Leads have continued to evaluate options to consistently document progress and streamline reporting. In alignment with GDA requirements, the NGDA themes completed development of an NGDA Theme Strategic Plan template in June 2023, based on an existing strategic plan developed for the Transportation Theme. The template was approved by the FGDC Steering Committee for use by all themes on June 30, 2023, and a timeline for completion by the end of FY2024 was established. The template provides a consistent framework for agencies to develop goals, objectives, and actions that directly align with GDA requirements. Theme annual reports will highlight agency actions and accomplishments associated with the strategic plan in support of standards, nationwide population of NGDA datasets, strategic planning that aligns with the NSDI Strategic Plan and other guidance, and meeting user needs. Additional details for each of the four GDA NGDA Data Theme Requirements are included below.

A. Geospatial Data Standards

The FGDC is 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 and OMB Circular A-119 (development and use of voluntary consensus standards).

The FGDC Executive Committee has established a Standards Task Team to evaluate the requirements, options, processes, resources, and decision structure required to establish an operational and sustainable FGDC standards process. This will include evaluating the FGDC's roles and responsibilities in geospatial standards with those of other standards making bodies, non-Federal participation, and considerations for standards supporting the National Spatial Data Infrastructure (NSDI).

The Executive Committee Standards Task Team is currently developing recommendations to update the FGDC's standards management process and will recommend a path forward for the FGDC. Refer to the FGDC Standards webpage (https://www.fgdc.gov/standards) for additional information.

B. 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." FGDC agencies evaluate and manage NGDA core datasets and other geospatial data to meet mission requirements and to address priority needs of the agency and the nation. The approved strategic plan template incorporates 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.

In accordance with the GDA definition of NGDA data theme, the NGDA Theme Strategic Plan template will allow theme plans to focus on nationwide population of the core datasets within the theme and allow agencies to document, provide citations to, and report on efforts that facilitate meeting this requirement. NGDA Theme Strategic Plans covering the period from 2025-2027 will be due by the end of FY2024. Once completed, the strategic plans will be published on the GeoPlatform Theme sites.

C. Establish Goals That Support the NSDI Strategic Plan

The NSDI mission is 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." The FGDC and the geospatial community have partnered for decades in building the National Spatial Data Infrastructure. Through this collaboration and modernization of geospatial data resources on the internet, combined with advances in technology and availability of mobile devices, situational awareness has increased. Having geospatial data and information available on demand for a wide variety of applications 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" is to support efficient resource allocation and provide a platform for partnerships to support high quality data. The FGDC is developing a new NSDI Strategic Plan which is scheduled to be finalized by the end of FY2024. The goals of the Theme Strategic Plans will subsequently be revised based on the new NSDI Strategic Plan.

The NGDA Theme Strategic Plan template described in the "Background" section above will allow agencies to identify actions and accomplishments that align with mission requirements, and support implementation of the NSDI Strategic Plan and its goals and objectives. For the NGDA portfolio, the NSDI Strategic Plan 2021-2024 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 by stakeholders and the public.

D. Addressing User Needs

The NGDA Theme Strategic Plan (planned publication at the end of FY 2024) will identify the needs of users related to NGDA datasets within the Theme and provide strategies to meet those needs. Additionally, the GeoPlatform offers open geospatial hosting and services for US federal agencies with geospatial data assets to address the needs of a diverse user community, including government, non-government, and public users. Each NGDA Theme has a site within the GeoPlatform that hosts the NGDA datasets. These Theme sites, along with the GeoPlatform, provide access to open geospatial data assets including metadata, services, applications, and tools for an open-source geospatial suite of capabilities. These capabilities are consistent with the '**F**indability, **A**ccessibility, **I**nteroperability, and **R**euse (FAIR) Guiding Principles for scientific data management and stewardship'[9] as part of meeting user needs. Through ongoing GeoPlatform modernization and FGDC efforts to improve and enhance NGDA metadata and services, users have access to analysis-ready data to meet their geospatial analytical needs.

Appendix A: Survey Picklist

This appendix provides the full set of available choices presented for the Meeting General Responsibilities – USC Sec.2805(b)(2) question.

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

- Agency participated in cross-agency activities related to the development of the Theme Strategic Plan Template
- 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) coordinate changes to the Portfolio inventory for Steering Committee approval
- Theme Lead(s) update Dataset Managers and other points of contact (e.g., metadata POC)
- Theme Lead(s) coordinate Theme Hub Sites on the GeoPlatform with established points of contact (e.g., Site Maintainers, site editors)
- Theme Lead(s) evaluate standards applicable to the Portfolio inventory
- 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
- No participation in ensuring coordinated management of the Theme
- Other [Textbox provided]

Appendix B: Brief Summary

Transportation Theme Accomplishments in 2023
The following provides a summary of the accomplishments made by the Transportation Theme in FY2023. The accomplishments align with GDA requirements for USC 43 Sections 2805(b)(3)(A)-(D).

Standards
Last year, the U.S. Department of Transportation (USDOT) began the process of adopting minimum content standards for each National Geospatial Data Assets (NGDA) in the transportation theme. The first half of 2023 dedicated the Department's efforts toward collaborating with the geospatial transportation data community to assess existing standards. The theme used the assessments to determine which standards the USDOT should consider for adoption. The Department also developed a Standards Development Lifecycle (SDLC) which established standard operating procedures (SOP) for reviewing, selecting, adopting, developing, implementing, maintaining, and retiring NGDA standards. In June, the Department delivered the transportation theme's Geospatial Standards Implementation Plan (GSIP).

Transit
Beginning this year, the Federal Transit Administration (FTA) is implementing a requirement for National Transit Database (NTD) reporters to submit the standardized data that the Bureau of Transportation Statistics (BTS) uses to build the (NGDA) Transit (Lines) and Transit (Stations) datasets. BTS anticipates major completion of the datasets by the end of next year.

This year, BTS became a member of MobilityData, the organization that hosts the data specification used to build the (NGDA) Transit (Lines) and Transit (Stations) datasets. The membership enables BTS to work with the mobility industry to develop and foster the adoption of data specifications, and tools, in the areas of transportation options like public transit, shared mobility, and on-demand transit.

Intermodal Freight Database
During calendar year 2023, the intermodal freight facility database worked through the creation of a liquid bulk geospatial intermodal facility layer with an intended completion date of January 2024. Through a series of four (4) intermodal freight working group meetings comprised of members from different Operating Administrations within the USDOT and other Federal Agencies, discussions were held as to how the layer should be developed along with overseeing the actual development. Almost 1,000 intermodal freight facilities have been captured, vetted, and reviewed as part of this layer, comprising of facilities with liquid bulk intermodal port connections and inland truck to rail connections for example. Towards the end of the year, a smaller subject matter expert (SME) group was able to evaluate each terminal to provide explicit feedback per any enhancements needed to either a terminal's geometry (polygon) or attributes. Also, at the end of the year, a more holistic review of the layer was performed by the intermodal freight working group to provide feedback for final revisions for the dataset's public release in January 2024. Further, during the past year, a white paper was written to understand how a geospatial intermodal freight dry bulk layer could be created. The white paper explored dry bulk definitions, data sources, attributes, and methods/approaches to building such a layer. As a result of this white paper, the intention is to start to create this layer during calendar year 2024.

Roads

The Census Bureau launched an internal National Feature Update Program (NFUP) working group and several subgroups to maintain and improve the All Roads NGDA data quality and completeness for Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) Feature Class Code (MTFCC) reclassifications, road alignments, road names, and integration with other transportation features (e.g., railroads and airstrips). These improvements and updates are linked to existing and newly acquired MAF Structure Points obtained from multiple federal and state data providers (e.g., imagery, building footprints, and state DOT data). The subgroups listed here reported the following accomplishments for FY23:

- Alaska Feature Update Program:
  - Implemented a program to name unnamed roads in rural Alaska communities leveraging a statewide file from the Alaska DOT: A comparison between the State of Alaska DOT, Borough DOT sources and the MAF/TIGER System was conducted in 17 remote boroughs to spatially match unnamed road features. The results: 1) 5,932 features reviewed, 2) 1,613 newly named roads, 3) 3,700 new MTFCC applied, and 4) 618 features/roads deleted.
  - Completed targeted updates for 35 Alaskan villages including winter trails, spatial feature additions, reshapes, and associated attribution using authoritative sources. The Winter Trail, Bethel-Tuluksak, has been updated and/or added throughout its extent, utilizing State-provided sources.
  - Completed the confirmation and addition of rural airstrips in Alaska: Used 16 separate sources to confirm 212 airstrips in rural Alaska and then added 213 linear feature airstrips and 34 seaplane bases.
- Rail improvement project: Completed rail feature updates by county in the MAF/TIGER System from a nationwide dataset provided from the Federal Railroad Administration. The FY23 national tally: 1) 533 counties reviewed, 2) 16,647 miles of added or reshaped railroads, reflecting 19.4 percent of the workload.
- Bifurcation Updates Project: This MTFCC and street name consistency project addresses street features that have multiple "branches" with the same name, and/or are misclassified as street features instead of driveways or parking lot roads and corrects these errors and inconsistencies. These corrections result in improved feature name chaining, feature network representation quality, and address range build results. The results: 1) completed a total of 532 counties, reflecting 16 percent of the workload, 2) initiated 135,995 update actions, 3) applied 7,259 miles of roads to the MAF/TIGER System.
- Winter Trails reclassification: This project converted misclassified features from pedestrian walkways and jeep or 4-wheel drive roads with the name "Winter Trl" to the proper classification of "winter trail" initiating a reclassification of 4,000 miles of trails.

The U.S. Geological Survey (USGS) and Census Bureau Partnership

The Census Bureau's Geography Division continued their long-term partnership with USGS National Geospatial Program (NGP) to share the Census Bureau's roads data for use in The National Map Viewer[10] and U.S. Topological (US Topo) Map product (1:24,000 scale). USGS compares the accuracy and completeness of TIGER data to the U.S. Topo Map series and uses the benchmark of current information that the Census Bureau receives from tribal, state, and local governments during their geographic programs (e.g., Boundary and Annexation Survey). USGS provides feedback to the Census Bureau on the

roads data, and any discrepancies for roads and linear features are submitted for conflation and interactive review. In FY23, the Census Bureau improved the quality of TIGER roads data based on USGS feedback using quality control checks and new update operation by county via the Fast Feature Update System (FFUS). A total of 7,752 actions submitted by USGS to Census were reviewed, with 3,128 of these applied as updates to the MAF/TIGER System and the remainder in the QC process or waiting for interactive update in the MAF/TIGER System.

Metadata

In 2023, the Transportation Theme has optimized and advanced its metadata creation workflow for all theme layers and is now adopting the ISO 19115 metadata standard for all files. This includes utilizing Esri Survey 123 as a way to engage directly with the theme's NGDA dataset managers to receive updated metadata elements for their layers to then quickly and efficiently create XML metadata to upload into various systems such as data.gov and geoplatform.gov. The Esri Survey 123 platform enables the Transportation Theme's dataset manager to evaluate current metadata element entries, review them, make needed corrections and edits, and submit revisions in a constructive easy to use manner taking less burden off of the dataset managers. The Transportation Theme worked with personnel at data.gov to ensure the metadata XMLs being created had the correct ISO 19115 structure and would upload to data.gov. Metadata elements being collected are but not limited to a layer's purpose, description, keywords/tags, specific as of dates, process description, and the dataset's data dictionary.

Endnotes

[1] U.S. Code, Title 43 – Public Lands, Chapter 46: GEOSPATIAL DATA
https://www.fgdc.gov/gda/43-usc-ch-46-geospatial-data-geospatial-data-act.pdf

[2] FGDC GDA Information
https://fgdc.gov/gda

[3] NSDI Strategic Plan
https://www.fgdc.gov/nsdi-plan

[4] GeoPlatform
https://www.geoplatform.gov/

[5] NGDA Portfolio Community Site
https://ngda-portfolio-geoplatform.hub.arcgis.com/

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

[7] NGDA Theme Contacts
https://ngda-portfolio-community-geoplatform.hub.arcgis.com/pages/contacts

[8] NGDA Theme Hub Sites
https://ngda-portfolio-community-geoplatform.hub.arcgis.com/pages/ngda-themes

[9] FAIR Principles
https://www.go-fair.org/fair-principles/

[10] The National Map Viewer
https://www.usgs.gov/tools/national-map-viewer