

# **FGDC Steering Committee Presentation**

**October 29, 2020**



# Agenda

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<b>1:00</b>	<b>Welcome/Introductions</b>	<b>Tim Petty (DOI), Maria Roat (OMB)</b>
<b>1:10</b>	<b>National Geospatial Advisory Committee Report</b>	<b>Mark Reichardt (NGAC Chair)</b>
<b>1:25</b>	<b>NSDI Strategic Plan</b>	<b>Carrie Stokes (USAID)</b>
	<b>GDA Working Group Activities</b>	<b>Amy Nelson (DOT) John Mahoney (FGDC OS)</b>
	<b>GDA Report to Congress</b>	<b>Ivan DeLoatch (FGDC)</b>
<b>2:25</b>	<b>Geospatial Platform</b>	<b>Tod Dabolt (DOI)</b>
<b>2:40</b>	<b>Federal Data Strategy FGDC Actions</b>	<b>Ken Shaffer (FGDC)</b>
<b>2:50</b>	<b>Wrap-up</b>	<b>Tim Petty (DOI)</b>
<b>3:00</b>	<b>Adjourn</b>	

# Welcome and Introductions

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- Introductions
- Review of meeting objectives
- **Approval of Meeting Minutes** (October 2019, March 2020, June 2020)  
Tim Petty (DOI)
- **Update on A-16 Revision and Federal Data Strategy**  
Maria Roat (OMB)

# October 27-28, 2020 NGAC Meeting Summary



Mark Reichardt, NGAC Chair  
FGDC Steering Committee Meeting  
October 27-28, 2020

# NGAC Membership – October 2020

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**Mr. Mark Reichardt (Chair)**  
Open Geospatial Consortium

**Dr. Sarah Battersby (Vice-Chair)**  
Tableau Research

**Douglas Adams**  
Baltimore County, MD

**Mr. Frank Avila**  
National Geospatial-Intelligence Agency

**Mr. Chad Baker**  
California Department of Transportation

**Mr. Byron Bluehorse**  
University of Alaska Fairbanks

**Mr. Gar Clarke**  
State of New Mexico

**Mr. Garet Couch**  
National Tribal GIS Center

**Mr. Jack Dangermond**  
Esri

**Dr. William Haneberg**  
Kentucky Geological Survey

**Mr. Mike Hussey**  
State of Utah

**Mr. Sanjay Kumar**  
World Geospatial Industry Council

**Mr. Tony LaVoi**  
NOAA

**Ms. Roberta Lenczowski**  
Roberta E. Lenczowski Consulting, LLC

**Mr. Mark Meade**  
Quantum Spatial

**Dr. Siva Ravada**  
Oracle Corporation

**Ms. Felicia Retiz**  
Texas Water Development Authority

**Dr. Vasit Sagan**  
St. Louis University

**Ms. Amber Shultz**  
City of Lawrence, KS

**Mr. Cy Smith**  
State of Oregon

**Mr. Gary Thompson**  
State of North Carolina

**Mr. Tim Trainor**  
Trainor Consultants

**Dr. May Yuan**  
University of Texas – Dallas

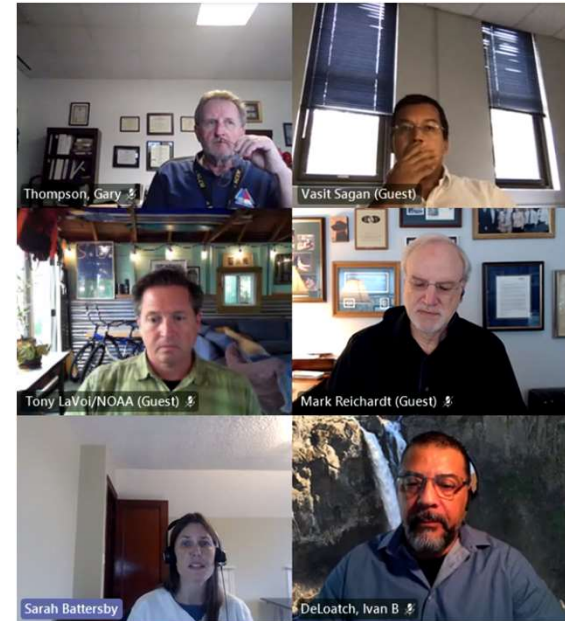
**Ivan DeLoatch (FGDC), Designated Federal Officer**



# October 2020 NGAC Meeting – Agenda

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- Leadership Dialogue
- FGDC Report
- NSDI Strategic Plan
- Pandemic GIS Task Force
- GDA Report to Congress
- NGAC Subcommittee Reports
  - Landsat Advisory Group
  - Public-Private Partnerships
  - Cultural/Historical Geospatial Resources
- NGAC Bylaws
- Planning for 2021 NGAC Activities



# Geospatial Data Act

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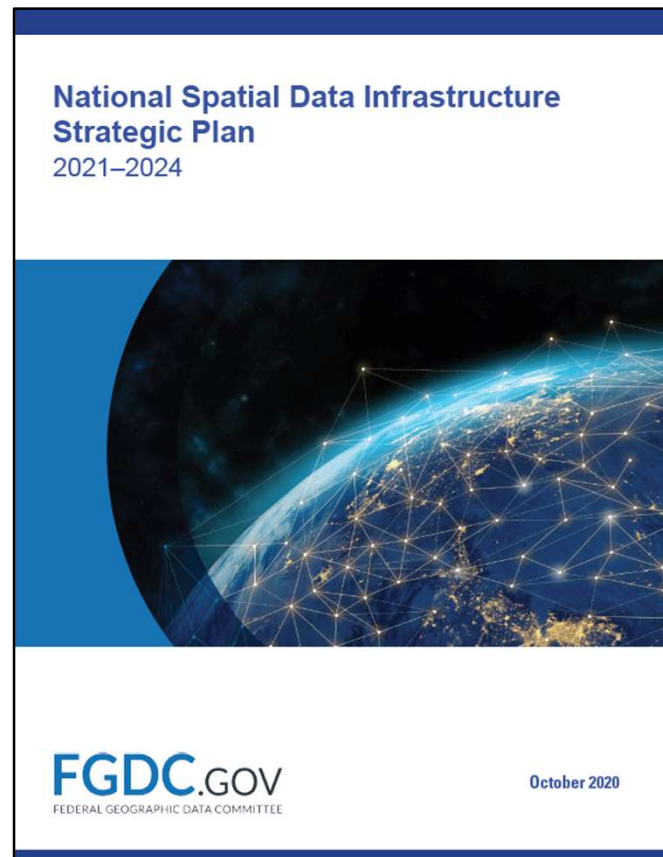
## GDA Report to Congress

- **ACTION:** The FGDC is revising the draft GDA Report to Congress to address comments from NGAC members and FGDC agencies. FGDC staff will keep the NGAC members apprised of the status of the report.
- **ACTION:** NGAC will designate a small group of members to coordinate with FGDC on establishing a process for providing NGAC comments on lead/covered agency annual reports regarding compliance with the GDA.

# NSDI Strategic Plan

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- NGAC has been closely engaged in development of the strategic plan.
- NGAC NSDI Subcommittee was instrumental in development of the Vision, Mission, and Guiding Principles.
- **DECISION:** The NGAC approved a resolution endorsing the 2021-2024 NSDI Strategic Plan





# Pandemic GIS Task Force

- Briefing from Pandemic GIS Task Force (includes members from NAPSG Foundation, NSGIC, URISA)
- Task Force Goal: “Increase pandemic preparedness and unity of effort by enabling effective information sharing and use of location-enabled technology for informing critical decision making.”
- **ACTION**: NGAC and FGDC leadership will work with Pandemic GIS Task Force members to identify opportunities for collaboration between NGAC and Task Force related to the Task Force’s identified actions/next steps



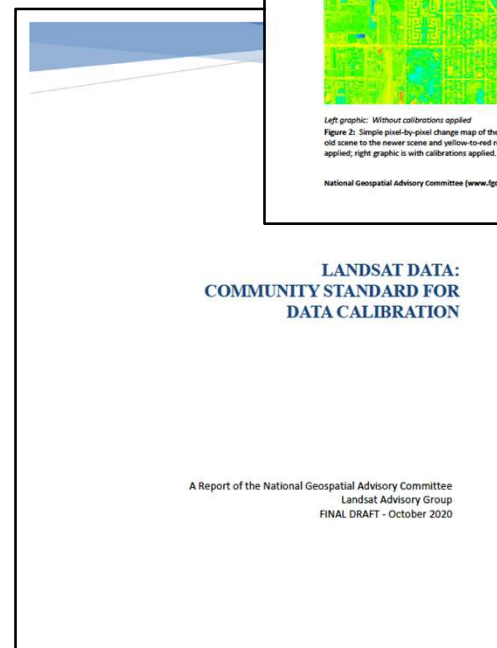
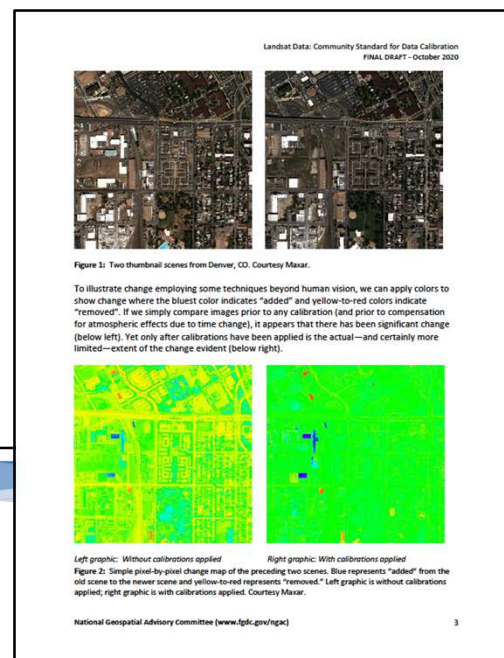
*Pandemic Technology & GIS Preparedness Cycle*

# Landsat Advisory Group (LAG)

**DECISION:** The NGAC approved the paper, “Landsat Data: Community Standard for Data Calibration” pending minor formatting changes.

**ACTION:** The LAG will continue working on the tasks outlined in the 2020 guidance provided by USGS:

- **Task 2:** Formulating a Big Data Science challenge for land imaging time-series data (Due date: Dec. 2020)
- **Task 3:** Modernized interpretation of the Land Remote Sensing Policy Act of 1992 (Due date: Dec. 2020)



# NGAC Subcommittees

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## **Public-Private Partnerships (P3) Subcommittee**

- **Action:** The subcommittee will provide NGAC members with a final draft version of the P3 recommendation paper and case studies prior to December 2020 NGAC meeting.

## **Cultural & Historical Geospatial Resources Subcommittee**

- **Action:** The subcommittee will continue to monitor progress on implementation of the recommendations included in the NGAC paper, “Protecting Federal Cultural and Historical Geospatial Resources.”

## **Operations Subcommittee**

- **DECISION:** The NGAC approved a resolution adopting the revised NGAC bylaws, pending the addition of a version summary.



# Discussion – Potential 2021 NGAC Study Topics

Current	Need to Address	Potential Topics
<p><b><u>Ongoing:</u></b></p> <ul style="list-style-type: none"> <li>• Landsat Advisory Group</li> </ul> <p><b><u>Monitoring/Tracking:</u></b></p> <ul style="list-style-type: none"> <li>• NSDI Strategic Plan</li> <li>• Cultural/Historical Resources</li> <li>• Public-Private Partnerships</li> </ul>	<ul style="list-style-type: none"> <li>• <b>GDA Reporting</b> – Coordination of NGAC comments on GDA annual reports</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Privacy &amp; protection of PII</b></li> <li>• <b>AI/ML</b> – Approaches/ considerations for geospatial community</li> <li>• <b>Stakeholder engagement</b></li> <li>• <b>Future of GeoPlatform</b></li> <li>• <b>2022 Datum modernization</b></li> <li>• <b>Power of Geospatial in Context</b></li> <li>• <b>U.S. Geospatial Strategy on Global Front</b></li> </ul>

# Future Topics/Next Steps

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## **ACTION:**

Based on the discussion this week, the NGAC Chair and Vice-Chair will develop short summaries for each of the potential future study topics and will reach out to NGAC members for additional insight.

## **Next NGAC Meeting**

The next meeting of the NGAC is scheduled for December 9-10, 2020. Additional information will be provided prior to the meeting.

# Geospatial Data Act Update



# Geospatial Data Act Update

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## Topics:

- **Development of NSDI Strategic Plan**  
Carrie Stokes, USAID
- **GDA Work Group Activities**  
Amy Nelson, DOT and Lorna Schmid, FGDC OS
- **2020 GDA Report to Congress**  
Ivan DeLoatch, FGDC OS



# Steering Committee Approval Votes

	Activity	Voting Dates
<b>FGDC Template for Covered Agency Geospatial Strategies</b>	Voting Closed	9/11/2020 – 9/25/2020
<b>Common Template for Covered Agency Annual Reports</b>	Voting Closed	10/9/2020 – 10/21/2020
<b>NSDI Strategic Plan</b>	Active Voting	10/22/2020 – 11/5/2020
<b>GDA Report to Congress</b>	Finalizing Draft for Approval	TBD
<b>Common Template for Lead Covered Agency Annual Report</b>		TBD



# NSDI Strategic Plan Session



FGDC Steering Committee Meeting  
October 29, 2020

# NSDI Planning Approach

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- Collaborative approach, partnership with NGAC NSDI subcommittee
- Outreach – NSDI Leaders Forum sessions, inputs from FGDC agencies, NGAC subcommittee, partners
- Alignment with related data initiatives:
  - Evidence Act/OPEN Government Data Act
  - Federal Data Strategy
  - UN-GGIM Integrated Geospatial Information Framework (IGIF)

# FGDC/NGAC Teams

NGAC NSDI Subcommittee	FGDC NSDI Core Team
<b>Focus:</b> Development of draft Mission, Vision, Guiding Principles; ongoing feedback	<b>Focus:</b> Development of draft Strategic Plan; stakeholder outreach
<b>Team Members:</b> <ul style="list-style-type: none"><li>• May Yuan – Chair</li><li>• Chad Baker</li><li>• Gar Clarke</li><li>• Bobbi Lenczowski</li><li>• Mark Reichardt</li><li>• Tim Trainor</li></ul>	<b>Team Members:</b> <ul style="list-style-type: none"><li>• Ivan DeLoatch (FGDC) – Co-Lead</li><li>• Carrie Stokes (USAID) – Co-Lead</li><li>• Pamela Isom (Dept of Energy)</li><li>• Lynda Liptrap (Census)</li><li>• Gita Urban-Mathieux (USGS)</li><li>• Mark Reichardt (NGAC liaison)</li><li>• Bobbi Lenczowski (NGAC liaison)</li><li>• Ken Shaffer (FGDC)</li><li>• John Mahoney (FGDC)</li></ul>

# NSDI Leaders Forum Sessions

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## March 10 Meeting

- Focus: Mission, Vision, Guiding Principles

## May 28 Meeting

- Focus: Strategic Goals & Objectives

## Participation

Leaders of key geospatial organizations and professional associations. Participants from 14 organizations.

## Purpose

Input and dialogue with key partner organizations on development of strategic plan, role of partners, and suggestions for additional improvements.



# NSDI Plan – Comment Periods

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## 1. Initial Comment Period – May/June

- Distributed to FGDC and NGAC members
- 110 comments from 25 FGDC reps/NGAC members

## 2. Public Comment Period – August/September

- Distributed broadly for public comment
- 62 comments from 16 organizations and individuals

# Public Comments – Key Issues

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- Emphasize the need for improved State-Federal engagement, and collaboration with partners
- Emphasize importance of acquisition of data
- Various editorial changes
- Clarification of language, reduce acronyms/jargon
- Address:
  - Data preservation
  - Coordination with other Federal data standards bodies & utilization of OGC-compliant open standards
  - Reference to licensing and use agreements
- Need for resources being available to implement the plan
- Improve references to protection of PII
- Importance of performance metrics/measuring progress via dashboards
- Importance of the private sector

# Final Draft NSDI Plan

- Final Draft Plan addresses comments received through Public Comment Period & recent meetings with Steering Committee, NGAC, and Leaders Forum group
- **Endorsed by NGAC on Oct 27**
- Distributed to Steering Committee for electronic vote on October 22.
- **Steering Committee votes due by November 5**



## NSDI Strategic Goals

### Goal 1

Implement the national geospatial policy and governance framework as defined by the Geospatial Data Act and related statutes and policies

### Goal 2

Advance the maturity of, accelerate the acquisition of, and expand the sources of National Geospatial Data Assets to ensure that they are findable, accessible, interoperable, and reusable

### Goal 3

Ensure open standards-based interoperability to enable geospatial shared services

### Goal 4

Enable and promote collaborative governance and partnerships to meet national needs, priorities, and circumstances



# Implementation - Next Steps

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## Initial Implementation Milestones

### NSDI Strategic Plan and Agency Geospatial Strategy Implementation

<b>Timeframe</b>	<b>Activity</b>
October 2020	NSDI strategic plan approved by the FGDC Steering Committee/endorsed by the NGAC
December 2020	FGDC covered agencies complete geospatial strategies required by the GDA (in support of the NSDI strategic plan)
March 2021	NSDI implementation plan completed

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# Questions?

# GDA Working Group Update



FGDC Steering Committee Meeting  
October 29, 2020

# GDA Working Group

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- FGDC-sponsored interagency GDA Working Group formed in November 2019; over a dozen agencies meeting bi-weekly
- Initial coordination priorities:
  - Covered Agency Reports
  - National Geospatial Data Asset / Lead Covered Agency Reports
  - Agency Inspector General Audits
  - FGDC Report to Congress
  - NSDI Strategic Plan & Covered Agency Geospatial Strategies



# GDA Working Group Member List

Agency	GDA WG Members
Agriculture	Shirley Hall, Lisa McBride
Commerce - Census	Dierdre Bevington-Attardi, Monique Eleby, Karla Riso
Commerce – NOAA	MeiLing Freeman, Kim Valentine
DOI USGS FGDC OS	Tod Dabolt, Joel Schlagel, Deidre McCarthy Michael Tischler, Debbie Fugate, Ivan DeLoatch, Ken Shaffer, John Mahoney, Lorna Schmid
DoD - NGA	Bill Mullen
Education	Doug Geverdt
Energy	Pam Isom, Wende Wiles, Jenifer Bauer, Renee Porter
EPA	Ana Greene
GSA	Valerie Butler
Homeland Security	Mike Donnelly, Kimberly Pettit
HUD	Ted Payne
Justice	Stephanie Crews-Jones
NASA	Stinger Guala
State	Lee Schwartz
Transportation	Amy Nelson, Raquel Wright
USACE	Nancy Blyler
VA	Melissa Chiu

**Note: Currently no WG members from HHS, Labor, NARA, NSF, SBA, SSA, Treasury, and USAID**



# GDA Working Group: Current priorities

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- Discuss OIG audit results and widely varying audit approaches
- Liaise with FGDC reps on topics that are of interest to covered agencies
- Review and give feedback on CA and Strategic Plan templates
- Discuss A-16 revision and curate a list of top comments for OMB
- Share best practices and clarify reporting requirements
- Keep abreast of GeoPlatform developments

# Inspector General GDA Audit Reports

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Agriculture: 2 recommendations

Commerce: 6 recommendations

Education: 2 recommendations

Energy: 0 recommendations, 7 “suggestions”

HHS: 3 recommendations

DHS: 3 recommendations

GSA: 2 recommendations

HUD: 1 recommendation

Interior: 2 recommendations

Justice: 2 recommendations

Labor: 2 recommendations

NASA: 4 recommendations

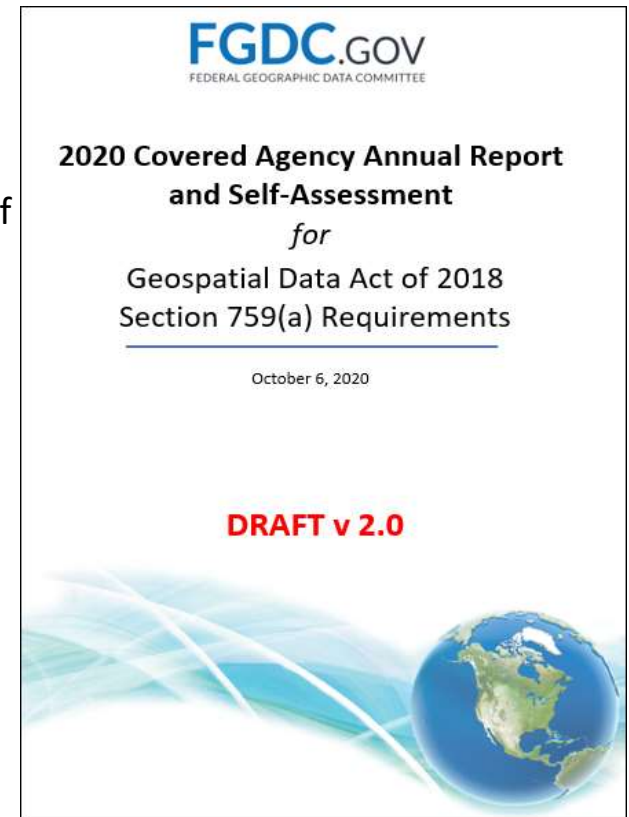
State: 3 recommendations

Transportation: 13 recommendations

Treasury: 0 recommendations: conducted survey, not audit

# Covered Agency Reports

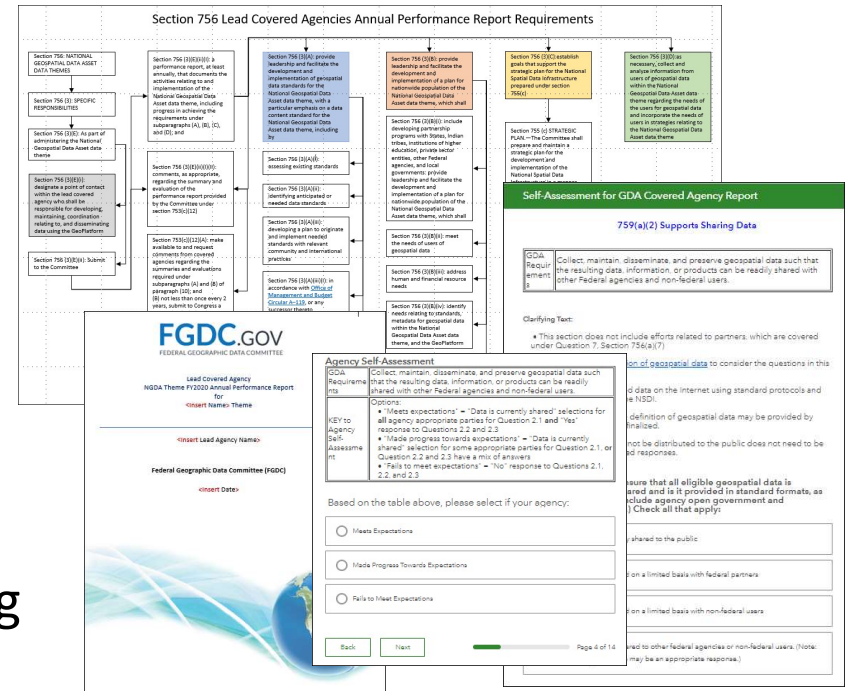
- GDA Section 759 identifies 13 requirements for Covered Agencies
  - Standardized report template to measure agency progress and provide self-assessments based on common criteria and suite of questions for each requirement, using GeoPlatform & Survey123
  - Results in an overall rating for each of the 13 requirements, as well as an initial overall rating of Covered Agency performance
- Vote on Draft Template ended 10/21
- **Some late changes were submitted, recommend implementing them, will send summary of changes to agencies, any feedback by Friday, November 6.**
- Testing and Account Setup to begin soon. POC: Names and Email will be required
- Roll-out to agency POCs to follow





# Lead Covered Agency Report

- ❖ GDA Section 756 identifies requirements for Lead Covered Agencies (DOI, DOC, USDA, GSA, DOT)
- ❖ Cross-Agency Team developing template addressing progress on:
  - A. Geospatial Data Standards
  - B. Nationwide Population of Data Themes
  - C. Actions that Support the Goals and Objectives in the NSDI Strategic Plan
  - D. Addressing User Needs
- ❖ Baseline report will document on-going NGDA Portfolio Community efforts that align with GDA requirements
- ❖ **Template will be provided soon for final agency review**



# NGDA Baseline Standards Inventory

- ❖ Geospatial standards related to 173 NGDA
- ❖ Supports FDS 2020 Action Plan and GDA Sections 756 and 759
  - ❖ Data Content Standards: Structure, Attributes, Accuracy, Quality, Archive, Transfer, and Services
  - ❖ Metadata Content Standards: Content and Exchange formats, Services, and Data download
- ❖ Gathered using Esri Survey 123 through GeoPlatform
- ❖ Data analysis and dashboard development for results has begun
- ❖ Responses were due October 9, 2020 – 75% completion to date

The image displays several key components of the NGDA Baseline Standards Inventory project:

- Theme Lead and Agency POC Dashboard:** Shows a progress bar at 73.99% completion with 128 submissions. It includes a 'Read Me' section and a 'Submission Re...' section.
- Geospatial Data and Metadata Baseline Standards Inventory:** A survey question asking, 'Question 4: Are there geospatial data standards applied to this NGDA?'. It provides instructions on how to answer and lists categories like Structure, Attribute, Accuracy, Quality, Archive, Exchange, etc.
- The Companion Guide: Achieving an NGDA Baseline Standards Inventory:** A document cover dated August 31, 2020, published by the Federal Geographic Data Committee. It describes a baseline assessment to meet geospatial data act, federal data strategy, and other requirements.
- Executive Summary Dashboard:** A dashboard for the 'NGDA Baseline Standards Inventory Survey Period: 8/31 - 10/9'. It shows 70 DSMs representing 11 Agencies, 21 Sub-Agencies, and 173 NGDA. It includes a bar chart for '# of NGDA by Agency' and a donut chart for '# of NGDA by Sub-Agency'.

[NGDA Theme Lead and Agency POC Dashboard](#)

# GDA Report to Congress



FGDC Steering Committee Meeting  
October 29, 2020

# GDA Congressional Report: 2-Phase Approach

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## Phase 1: High-level GDA Report to Congress

- Will include:
  - Executive Summary
  - Background/Overview
  - GDA Implementation Activities to Date
  - GDA Reporting – Status Report
  - NGAC Inputs
  - Challenges/Recommendations
- **Planned delivery date: Fall 2020**

# GDA Congressional Report: 2-Phase Approach, cont'd

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## Phase 2: GDA Reporting Appendix

- Will include:
  - Summary of the status of each NGDA data theme and an evaluation of its progress
  - Summary of achievements and a determination of progress of each covered agency in implementing their agency's strategy for advancing geospatial activities appropriate to their mission
  - Any comments from the covered agencies on the FGDC summary reports, NGAC comments on the FGDC summary reports, and any responses to those comments
- **Planned delivery date: Posted online and provided to Congress in April 2021**

# Status

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## Status

- FGDC staff has had a series of discussions with FGDC and DOI leadership, congressional affairs staff, and OMB about the approach and timing of the report to Congress. Draft report has been reviewed by FGDC Chair
- FGDC interagency team has developed draft report
  - Roxanne Lamb (team lead), Jen Carlino (NPS), Monique Eleby (Census), FGDC OS staff
- Draft report provided FGDC Steering Committee and NGAC for review on September 25 (comments due by October 9)
  - Comments received: 371 comments from 22 organizations and individuals
- **Based on comments, FGDC committee needs to resolve several issues**

# Key Issues

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## Issues Requiring Resolution

- Communication on resource challenges - **How does the Committee want to present on this topic?**
  - Comments ranged from – remove all references, to, directly state resources are required.
- Clarity on recommendations to Congress – **What recommendations does the Committee want to put forward and how does the Committee prefer to provide that information?**
- Review and final approval process – need direction from DOI and OMB.

## Revisions to Document

- Too much detail throughout document – will condense content
- Recommendations on restructuring content – will improve flow

# Next Steps

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## Recommended Next Steps

- Issues need to be resolved by Steering Committee
- Document needs to be revised and finalized
- Revised draft will be provided to Steering Committee for adoption vote
- Final review by DOI/OMB
- Submission to Congress



# GeoPlatform.gov Update to FGDC

October 2020





***“If the metadata ain’t great,  
You must curate”***

-schlagel 2020



***NSDI Goal 3 – Promote open standards-based interoperability to enable geospatial shared services ..  
A key role for Geoplatform***

- ***Provide accessible, high-value geospatial data and services***
- ***Increase value and use of national data and services through experimentation and innovation.***
- ***Align Geospatial data and associated metadata for improved discoverability and use, interoperability, and user confidence.***

## ***Team vision for Geoplatform in 2020***

- ***Provide the single place to find and get the most current version of NGDA products and services***
- ***Make all NGDAs discoverable, accessible, and available in open formats***
- ***Keep data updated and track versions***
- ***Serve a variety of communities and partners providing access to the authoritative data sets***

## Key initiatives

- *Simplify user experience*
- *Establish a data pipeline to support aggregating NGDAs*
- *Test the new approach and prepare for the remainder of NGDAs.*
- *Establish complete metadata harvesting*
- *Support Geospatial Data Act implementation*
- *Provide a place where customers can harvest and build additional value-add solutions*

# Engagements

- DHS- improved interoperability for HIFLD with GP
- GSA - briefed authentication community on adoption of keycloak
- EPA - briefed geospatial community on GP direction, and a briefing on authentication.
- DOI - briefed open source community & geospatial advisory council on GP
- NASA - working meeting on integration of earth science products
- ESRI Federal Conference - hosted a virtual booth
- NAIP - supporting demonstration next generation aerial imagery hosting
- USACE-DOI-GP - coordination on authentication / authorization



# Significant Geoplatform “Holiday Release”

First Release Under New IDIQ  
(we are 8 months into period of performance)

# Improved Authentication



- Geoplatform currently maintains user accounts and passwords for federal and non-federal users.
  - Costly
- Migrate to a shared GSA authentication platform (login.gov)
- Benefits:
  - Better user experience
  - Fewer help desk calls
  - Increased security
  - PIV holders to use their federal credentials!

LOGIN.GOV | GEOPLATFORM.GOV

GeoPlatform is using login.gov to allow you to sign in to your account safely and securely.

Email address

Password  Show password

Sign in

Create an account

[Sign in with your government employee ID](#)

[Back to GeoPlatform](#)

[Forgot your password?](#)

[Security Practices and Privacy Act Statement](#)



# Simplified Home Page Design

**GeoPlatform.gov**      NGDA Themes | Communities | Apps/Demos | Cloud Hosting | About      [Sign Up](#)   [Sign In](#)

## Making Geospatial FAIR

GeoPlatform is making GeoData Findable, Accessible, Interoperable, and Reusable, learn more >

 ▼ ✕ 🔍

### Current Events

**Western Wildland Fire Tracking**  
SOS Alert • Data - Maps >

### Data Showcase

**USGS 3DEP Lidar Point Cloud**  
Now Available as Amazon Public Dataset >

**GeoPlatform.gov**      Story | Map | Share / Print | Help | About

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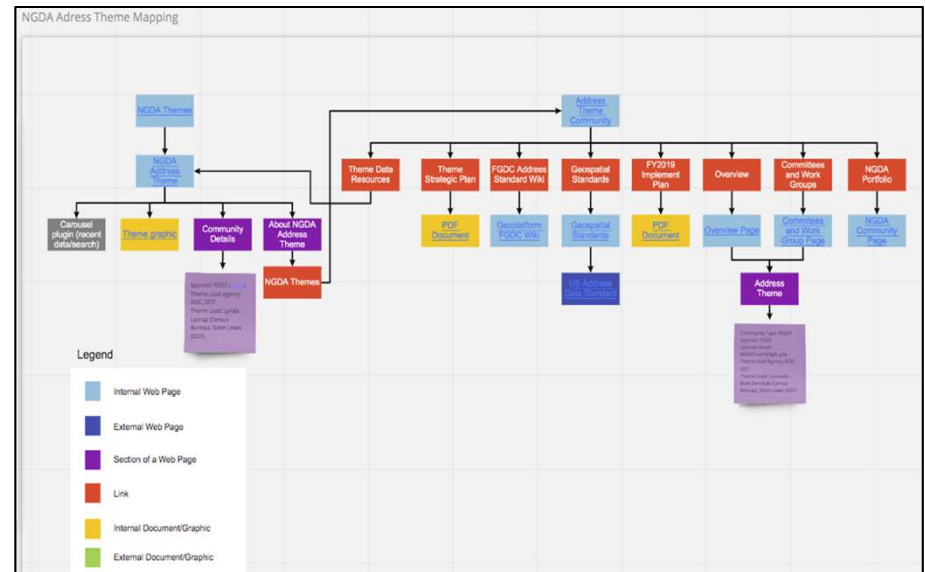
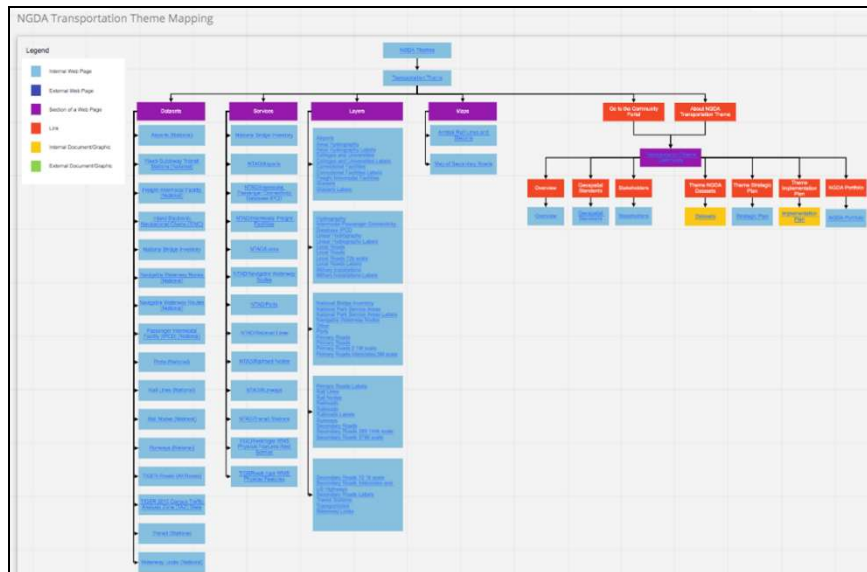
### Latest Updates

- Update Item 1**  
[General information about this item. >](#)
- Update Item 2**  
[General information about this item. >](#)
- Update Item 3**  
[General information about this item. >](#)

# Simplifying Content Across Geoplatform – Too Little Information in Too Many Places

## Simplify The Geoplatform Experience

**Problem: Organization of NGDA Theme Communities is Complex and Inconsistent, with relatively little current authoritative content**



# Simplified / Standardized Search

The screenshot displays the GeoPlatform.gov search interface. At the top, the logo and navigation links (NGDA Themes, Communities, Apps/Demos, Cloud Hosting, About) are visible, along with 'Sign Up' and 'Sign In' buttons. A search bar is present with the text 'Search GeoPlatform'. Below the search bar, navigation tabs include 'All', 'Datasets', 'Services', 'NGDA Themes', 'Data.gov', and 'AGOL'. The main content area shows search results for 'NAD' and 'Rail Nodes (National)'. The 'NAD' result includes a description, creation/modification dates, and download options (data, JSON, ISO, FGDC). The 'Rail Nodes (National)' result includes a description, creation/modification dates, and download options (JSON, ISO, FGDC). A 'Filters' sidebar on the left allows filtering by 'Date Created' and 'Types' (Dataset, Service, Layer, Community, Application, Topic, Website, Organization, Contact, Person).

**GeoPlatform.gov** NGDA Themes | Communities | Apps/Demos | Cloud Hosting | About [Sign Up](#) [Sign In](#)

Search GeoPlatform

[All](#) [Datasets](#) [Services](#) [NGDA Themes](#) [Data.gov](#) [AGOL](#)

**Filters**

[All](#) [All](#) [Reset](#)

**Date Created - All**

**Types**

- Dataset (1526)
- Service (3133)
- Layer (19660)
- Community (37)
- Application (18)
- Topic (7)
- Website (2)
- Organization (838)
- Contact (1307)
- Person (55)

**Communities**

- Midcontinent Region (MCR)
- Mississippi River Basin Science (MRBS)

**Results (350)** [NGDA Only](#) [Sort](#) [10](#) [1 of 35](#)

**NAD** [More](#)

*created May 13, 2020 | last modified Sep 21, 2020 | US Census Bureau*

The NAD is a spatial database containing address data, point location coordinates, jurisdictions, record level metadata and other supporting data for addressable locations ...

[Address](#) [NGDA Portfolio](#)

[data](#) [JSON](#) [ISO](#) [FGDC](#) [Share](#) [Download](#)

**Rail Nodes (National) - National Geospatial Data Asset (NGDA) Rail Nodes** [More](#)

*created Oct 4, 2018 | last modified Sep 15, 2020 | FRA*

The Rail Network is a comprehensive database of the nation's railway system at 1:24,000 to 1:100,000 scale (NTAD). The data set covers all 50 States plus the District of Columbia.

[Transportation](#) [NGDA Transportation](#) [Resilience](#)

[JSON](#) [ISO](#) [FGDC](#) [Share](#) [Download](#)

**Passenger Intermodal Facility (IPCD) (National) - National** [More](#)

d services....

# Modern Viewer for National Geospatial Data Assets

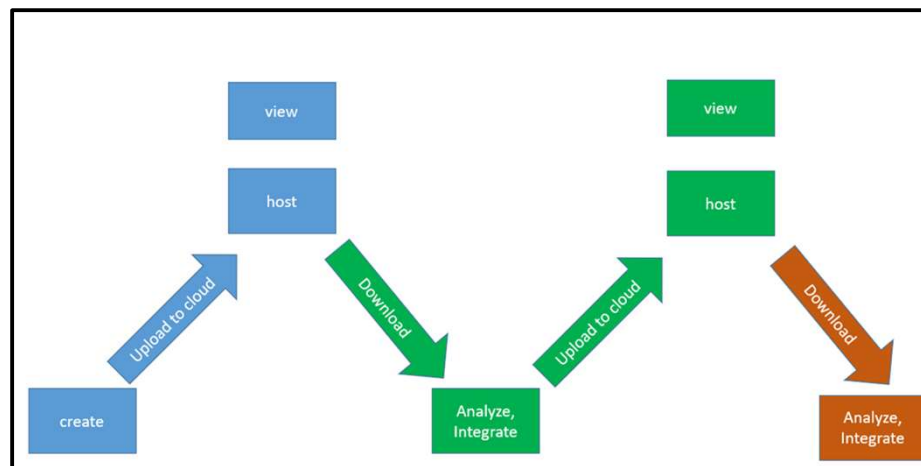
The screenshot displays the GeoPlatform.gov web application interface. On the left, a sidebar contains the following elements:

- GeoPlatform.gov** logo and name.
- A search bar with the placeholder text "Search for locations".
- An "Add Data" button with a plus icon and a refresh icon.
- A "DATA SETS [ 2 ]" section with a "Remove All" button.
- Two data layers are listed:
  - NTAD Navigable Waterway Nodes (raster tiles)**: Includes "About This Data", "Split", "Remove" buttons, and an "Opacity: 100%" slider.
  - NTAD Airports (raster tiles)**: Includes "About This Data", "Split", "Remove" buttons, and an "Opacity: 100%" slider.

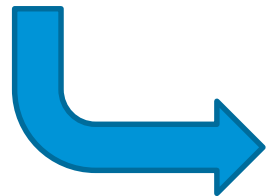
The main map area shows a 3D perspective view of a region in Arizona, including Joshua Tree National Park and Montezuma Castle National Monument. The map features a terrain base layer with overlaid data layers. In the top right corner, there are navigation and utility buttons: "Story", "Map", "Share / Print", "Help", and "About". On the right side of the map, there is a vertical toolbar with icons for navigation (compass, zoom in/out, home, full screen, etc.). At the bottom of the map, a status bar displays the coordinates "Lat 39.85953°N Lon 110.88805°W Elev" and a scale of "50 km". A disclaimer at the bottom left of the map reads: "Disclaimer: This map must not be used for navigation or precise spatial analysis - Data61 - CESIUM Data attribution".

# Pipeline for Data Production Generation: From Metadata Discovery to Data Discovery

## Geoplatform – Support for Cloud Workflows




Legacy Upload / Download Workflow



Modern Cloud Native Data Processing Pipeline

Geoplatform will expand support for machine readable metadata, automated data discovery, linked open data, machine learning, and modern cloud-based workflows including open data caches.

This will provide the greatest value to public and industry for the investment in national spatial data.



# Improved architecture allows for analysis and exploitation of metadata based on content, not simply reporting on metadata compliance

1. Metadata Audit Report
2. Source Report
3. DG Audit Report
4. NGDA Import Report
5. NGDA Record Validation Report

# GeoPlatform: V2 vs. V3

## FWS INTEREST - AUGUST 2020

### ▼Alternate Titles (0)

Expand to see alternate titles for this resource

### Description

This data layer depicts lands and waters administered by the U.S. Fish and Wildlife Service (USFWS) in North America, U.S. Trust Territories and Possessions. It may also include inholdings that are not administered by USFWS. The primary source for this information is the USFWS Realty program.

## OVERVIEW

### Publisher(s)

[US Fish and Wildlife Service](#)

### Issued

Jan 1, 9999

### Landing Page

Not specified

### Access the Resource

Not specified

### Purpose

The intended application of this data layer is as a cadastral framework for use with other data layers in GIS and mapping applications. It is specifically not intended to be used as a land survey or representation of land for conveyance or tax purposes.

### ▲Constraints (3)

Although these data and information have been processed successfully on a computer system at the U.S. Fish and Wildlife Service, USFWS, no warranty expressed or implied is made regarding the accuracy or utility of the data and information on any other system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. Inherent in any data set used to develop graphical representations are limitations of accuracy as determined by, among others, the source, scale and resolution of the data. This disclaimer applies both to individual use of the data and information, and aggregate use with other data and information. It is also strongly recommended



## GEOGRAPHIC EXTENT



### ACTIONS ▲

[Preview on Map](#)



[Download Source Metadata](#)

[Export as ▼](#)

## [FWS Dataset in V2](#) (Current Implementation)

# GeoPlatform: V2 vs. V3

The screenshot displays the GeoPlatform V2 interface for a dataset titled "FWS Interest - August 2020". The page includes a navigation bar with "GeoPlatform Portal", "Search", "Map", "Contribute", and "Admin console". Below the navigation bar are search and navigation controls, including "Back to search", "Previous", "Next", "Edit", "Delete", "Manage record", "Download", and "Display mode".

The main content area features a description of the data layer: "This data layer depicts lands and waters administered by the U.S. Fish and Wildlife Service (USFWS) in North America, U.S. Trust Territories and Possessions. It may also include inholdings that are not administered by USFWS. The primary source for this information is the USFWS Realty program." A "Completed" status indicator is shown in a green circle.

The "Download and links" section contains two entries:

Format	File Name	Download Link
application/zip	FWSInterest.zip	<a href="https://ecos.fws.gov/ServCat/DownloadFile/179385">https://ecos.fws.gov/ServCat/DownloadFile/179385</a>
application/xml	FWSInterest.shp_August2020.xml	<a href="https://ecos.fws.gov/ServCat/DownloadFile/179395">https://ecos.fws.gov/ServCat/DownloadFile/179395</a>

The "About this resource" section includes categories (Boundaries, Planning cadastre), reference keywords (Cadastral Theme, National Fish Hatchery, National Geospatial Data Asset, NGDA, Waterfowl Production Area, Wetland Management District), and a "None" category with keywords (United States, National Wildlife Refuge).

On the right side, there are sections for "No ratings", "Spatial extent" (with a map showing a bounding box over North America), "Temporal extent", "Publication date" (9999-01-01), "Period" (Thu Dec 31 9998 17:00:00 GMT-0700 to Thu Dec 31 9998 17:00:00 GMT-0700), "Provided by" (GeoPlatform logo), and "Updated" (in 6 hours). Social sharing options for Twitter, Facebook, LinkedIn, Email, and Print are also available.

At the bottom of the page, there is a footer with "Powered by GeoNetwork 3.10.3.0", "About", "Github", "API", and a RSS icon.

[FWS Dataset in V3](#) (Future Enhancement)

Not stylized; in testing



# GeoPlatform: V3 Demo Record to Map in Seconds

The screenshot displays the GeoPlatform V3 interface. At the top, there is a navigation bar with the GeoPlatform logo, 'GeoPlatform Portal', search, map, contribute, and admin console options. The user is logged in as 'admin admin ADMINISTRATOR' in English. Below the navigation bar, there are search and navigation controls, including 'Back to search', 'Previous', 'Next', 'Edit', 'Delete', 'Manage record', 'Download', and 'Display mode'.

The main content area features a record titled 'National Bridge Inventory - National Geospatial Data Asset (NGDA) Bridges'. The record description states: 'The National Bridge Inventory (NBI) is a collection of information (database) describing the more than 615,000 of the Nation's bridges located on public roads December 31, 2018, including Interstate Highways, U.S. highways, State and county roads, as well as publicly-accessible bridges on Federal and Tribal lands. The inventory data present a complete picture of the location, description, classification, and general condition data for each bridge. The element data present a breakdown of the condition of each structural and bridge management element for each bridge on the National Highway System (NHS).' A status tag indicates 'Under development'.

Below the description is a 'Download and links' section with three items:

- NTAD National Bridge Inventory MVT XYZ Tiles**: This dataset is published in the view service (TMS) available at [https://sit-tileservice.geoplatform.info/vector/NTAD\\_National\\_Bridge\\_Inventory/{z}/{x}/{y}.mvt](https://sit-tileservice.geoplatform.info/vector/NTAD_National_Bridge_Inventory/{z}/{x}/{y}.mvt) with identifier **NTAD National Bridge Inventory MVT XYZ Tiles**. [Add to map]
- NTAD National Bridge Inventory Raster XYZ Tiles**: This dataset is published in the view service (TMS) available at [https://sit-tileservice.geoplatform.info/tile/NTAD\\_National\\_Bridge\\_Inventory/{z}/{x}/{y}.png](https://sit-tileservice.geoplatform.info/tile/NTAD_National_Bridge_Inventory/{z}/{x}/{y}.png) with identifier **NTAD National Bridge Inventory Raster XYZ Tiles**. [Add to map]
- MVT Tile Demo**: This dataset is published in the view service (TMS) available at [https://jsfiddle.net/fgdc\\_gp\\_demos/68t75c3g/show](https://jsfiddle.net/fgdc_gp_demos/68t75c3g/show) with identifier **MVT Tile Demo**. [Add to map]

On the right side, there is a 'No ratings' section with 'See all feedback' and 'Add your review' buttons. Below that is a 'Spatial extent' map showing the United States, Canada, and Mexico. Further down are 'Temporal extent' (2016-01-01), 'Publication date' (2016-01-01), 'Provided by' (GeoPlatform logo), 'Updated: in 6 hours', and 'Share on social sites' (Twitter, Facebook, LinkedIn, Email, Print).

At the bottom, there is an 'About this resource' section with a search bar for 'Appraisal'. The footer includes 'Powered by GeoNetwork 3.10.3.0', 'About', 'Github', 'API', and a search icon.

Not stylized; in testing



# Geoplatform Technical Team supports GDA Implementation

# FGDC Guidance Document Replies

## Technical Team Responses:

- *POD JSON Metadata Issues:* URL Documentation needs to be resolved for GP. GP needs the full metadata URL reference, would encourage making it a requirement to be a consistent reference.
- *Title:* Currently in GP the title along with the publisher is used to uniquely identify the metadata record. If the title changes the next import of that record will create a new record rather than update the record. In the future this shouldn't be an issue for GP.
- *Dataset Identifier:* A trailing slash is allowed. This will need to be unique. Prefer to recommend a set process, ones that let you track it back to the agency and program, to file name. (For example: gov.noaa.nmfs.inport:10584)
- *NGDA ID# as Dataset identifier:* Provide proper guidance for adding the NGDA ID# in CSDGM. That would be a benefit if in the absence of a better place, a keyword seems reasonable.
- *Use of Ampersands in XML:* Unescaped ampersands are not allowed in XML.
  - *Is it feasible for GeoPlatform to escape & and other symbols as part of the validation process?*
    - In GeoNetwork you can disable validation if needed.
- *Use of xlink:* There are pros and cons. Con: impact on source servers if a large source of metadata needs to be harvested. Con: if you update contact info would it have any impact on the primary metadata record? Pro: metadata creators to only provide a reference link that can be changed once.

# FGDC Guidance Document Replies

## Technical Team Responses:

- *Online Resource Documentation ISO 19115*: An example is given but the domain is not expected which prevents standardizing it. We should try to find/create a domain vocabulary to use for source types. Indicate the format of the download, (e.g. ESRI Shapefile, ESRI Smart Data Compression). Provide a list for people to use. [Code list exist for identifying these.](#)
- *Online Resource Description*: Resource types are defined in ISO code lists ([for identifying these](#))
- *Online Resource Documentation for CSDGM*: We don't have access to revised guidance. Typically we'll get the ISO records from Data.gov. Data.gov transforms CSDGM to ISO and GP gets the transformed ISO.
- *Online Function Code*: This can lose value to consumers if they don't know what the endpoint is. Add a list of services when there is a platform that can provide multiple services there is value in describing each unique service and format. [Defined in ISO code lists.](#)
  - *Direct download data = 'download' and Web Services = 'search'*
    - Direct data download = physical spatial file, download
    - Web Services = microservice (MapServer, WMS,WFS, etc.) not necessarily a "search"... xyz, mvt (services)
- *Online Resource Documentation fo CSDGM- Data Download*: Can see potential value, and GP will be better able to discern the direct download link.

# Goal 2

## Continue to Focus on FAIR Data Principles Pipeline, Products, Services

Geoplatform: “FAIR” Geospatial Data for the Nation

(Findable, Accessible, Interoperable, Reusable)...

Geoplatform.gov current 2020 plans include:

- **Establishing a maintainable data pipeline** architecture to support aggregating NGDAs with initial demonstration of capability for address, transportation, NAIP Imagery, and Hydrography products. Establishing an approach to continue to **build out the pipeline and product generation solution** to support all NGDA datasets as part of the overall Geoplatform.gov vision.
- Where needed, establishing an **open-source product generation capability** to generate additional open-standard derivatives of NGDA datasets available for download and as web services to make datasets even more accessible and reusable.
- Simplify the What you see is what you get experience with preview viewer of datasets.

## Pipeline

- Configurable AWS Engine architecture in place to be configurable by data asset
- Triggering on metadata update change, then doing action new file endpoint
- Address and Transportation for all files “defined” in data.gov
- Configuration nature of adding a pipeline - Demo Hydrography for data.gov raw config test
- Demonstrating how different version items are search and found and is maintained



NGDA Processing Summary

Generated: 2020-08-03

Filtered Sources (Newer date than GP):

Name	GeoPlatform Date	Data.gov Date
united states	2019-03-27	2019-03-27
habitat maps conus 2001	2019-03-27	2020-05-29
habitat maps conus 2002	2019-03-27	2020-05-29

**Thank You!**



# Federal Data Strategy FGDC Actions

*Ken Shaffer*

*FGDC*

*Deputy Executive  
Director*





# FDS FY 2020 Action Plan – FGDC Action

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## **Action 10: Integrate Geospatial Practices into the Federal Data Enterprise**

By December 2020, FGDC, in coordination with the OMB Federal Data Policy Committee (FDPC), will improve the value of, and access to, geospatial data and services for use across the Federal data enterprise and the public through the implementation of the GDA.

Through this action, FGDC members will coordinate with their agency Data Governance Board (DGB), their SAOGI, and the FDPC on the use and integration of geospatial data into broader Federal efforts.

**Proposing to close-out as many of these actions in December as possible.**



# FDS FY 2020 Action Plan – FGDC Action

SC Member ACTIONS: Vote on approving plan – due November 5, 2020.

## Part 1: **Establish the NSDI Strategic Plan**

### **Measure: Completion**

Due: December 31, 2020

Status: On schedule for completion

Approach: An NSDI Core Team is pending FGDC approval.

Co-leads: Carrie Stokes (USAID) and Ivan DeLoatch (FGDC OS)



# FDS FY 2020 Action Plan – FGDC Action

SC Member ACTIONS: 1) Identify members who are also CDO Council members/representatives. 2) **For FGDC Decision:** Identify an FGDC to CDO liaison(s).

Part 2: **OMB SAOGI will assist the FGDC in ensuring FGDC cross-representation on appropriate data oversight bodies to help spatially enable the Federal data enterprise.** Establish a process to develop consistent identification of the spatial attributes of both spatial datasets (that contain spatial geometry) and non-spatial datasets to facilitate machine interpretable methods of relating or joining data for analytics and innovation.

**Measure: Number of engagements**

Due: December 31, 2020

Status: Preliminary discussions with Tod Dabolt, DOI SAOGI and CDO.

**PROPOSED Resolution:** Identify the FGDC to CDO Liaison(s) and report number of engagements through December 31.

Approach: FGDC to identify CDO liaison(s). Liaison(s) will recommend approach.

Note that an action to continue engagement with the CDO Council is one of 2 proposed to OMB for the FY 2021 FDS Action Plan for the FGDC.

# FDS FY 2020 Action Plan – FGDC Action

SC Member ACTIONS: Identify FGDC lead. **For FGDC Decision:** Should an extension be requested or close the actions with a percentage of NGDA services?

Part 3(1): Publish a GeoPlatform providing standards-compliant web services for National Geospatial Data Assets (NGDAs).

**Measure: Completion**      Status: On-going.

3(1) **PROPOSED Resolution:** Close in December noting the standards compliant web services supported.

Part 3(2): Publish a GeoPlatform providing standards-compliant web services for National Geospatial Data Assets (NGDAs).

**Measure: Percentage of NGDA data assets that are compliant**  
Status: On-going.

3(2) **PROPOSED Resolution:** Close in December noting the percent of compliant NGDA data asset web services being provided.



# FDS FY 2020 Action Plan – FGDC Action

SC Member ACTIONS: 1) Identify FGDC lead. 2) Baseline standards inventory in process – agencies should ensure their completion. **For FGDC Decision:**

Part 4: **GDA Lead Covered Agencies for NGDA data assets will identify, inventory, and publish the status and standards being used for each of the NGDA data themes and content and services metadata.**

Milestone: Track NGDAs for implementation of standards

Measure: Percentages of NGDAs with: i) metadata standards, ii) established content standards, iii) standards in process, iv) data assets not requiring standards, v) no established standards

Status: On-going and on-track for completion by December

**PROPOSED Resolution:** Close in December and report metrics i), ii), v). The metrics for iii) and iv) will not be captured in the initial assessment.

Approach: The NGDA Portfolio Team is in conjunction with the DOI SAOGI to 1) provide an online survey to NGDA theme and dataset managers to create a baseline of standards to report initial measures, 2) propose FGDC technical guidance defining when a standard is required (**this policy has not been created and should be part of the broader FGDC approach to standards**).

# FDS FY 2021 FDS – FGDC Actions Proposed to OMB

SC Member ACTIONS: 1) Respond to the survey when it goes out in 2021.

## 1) **FGDC FDS Pilot** execution Task Order awarded in September 2020.

- Geospatial Data Act high-value federal investments and incentives assessment – survey of Federal agencies
- Where will potential investments/partnerships/innovation provide key improvements/advancements/high-value services for the NSDI
- Includes elements from the GDA, NSDI, GeoPlatform, Covid-19

Measurement: Completion

## 2) **Continue FGDC to CDO interaction**

Measurement: Number of engagements



# Next Meetings

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## **Steering Committee (tentative)**

December 11, 2020 (Friday)

## **NGAC**

December 9 and 10, 2020 (Wednesday and Thursday)

# Meeting Wrap-up and Actions

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**Questions?**

