

National Geospatial Data Asset (NGDA) Portfolio Management Overview

NGAC Meeting
March 21, 2017



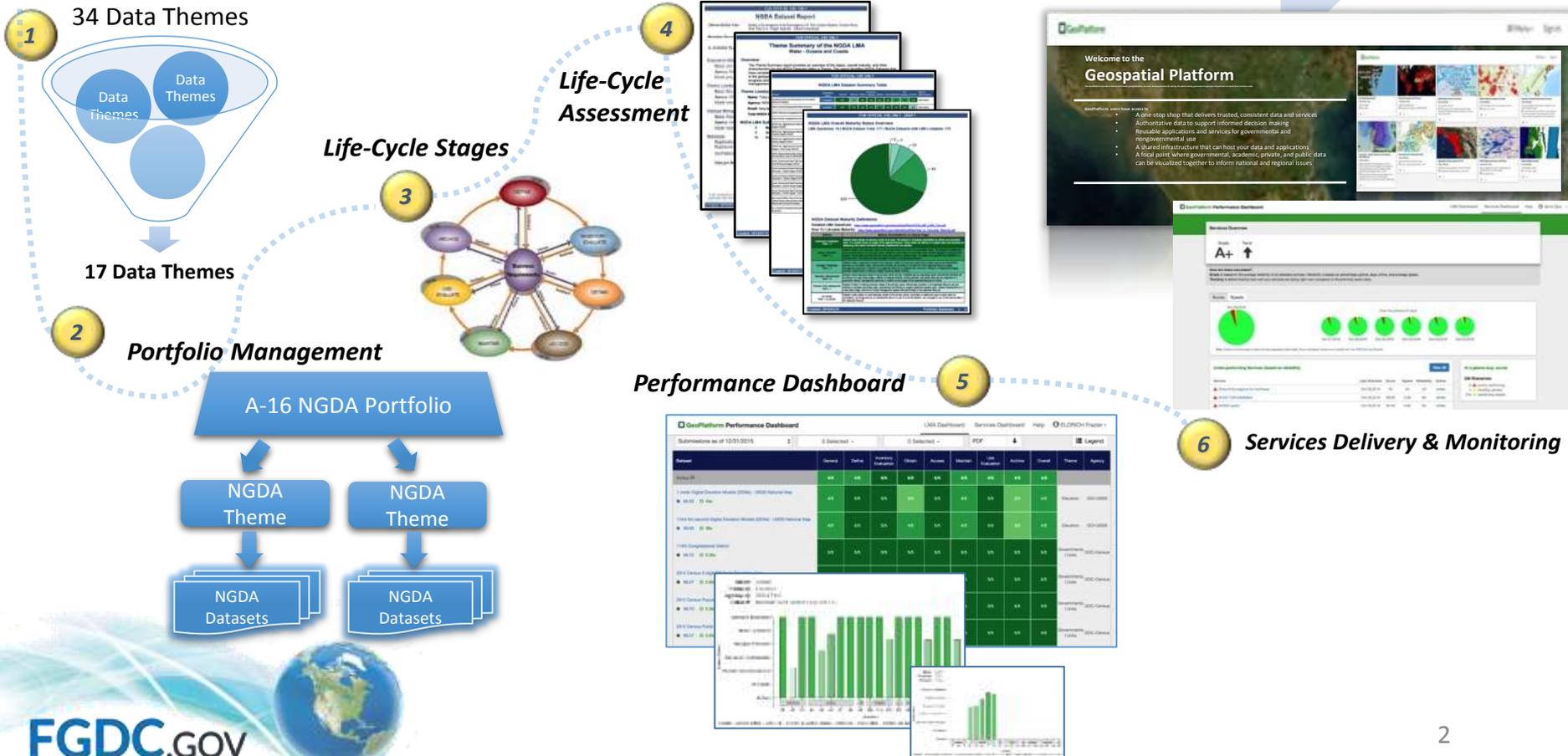
A-16 NGDA Portfolio Management Overview

Assessment & Restructure

Evaluation & Health

Monitoring and Reporting

Optimization to meet National Requirements

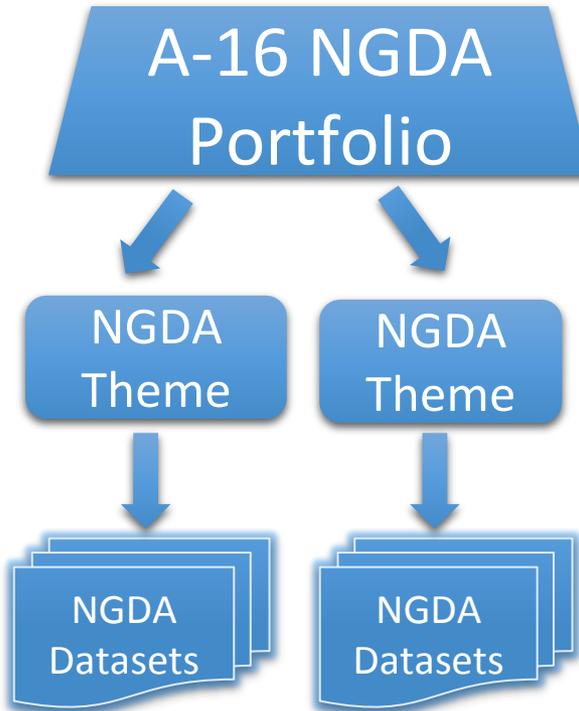


NGDA Themes and Structure

NGDA Selection criteria

(one or more)

- Used by multiple agencies or with agency partners such as State, Tribal and local governments
- Needed for Presidential priorities as expressed by OMB
- Required to meet shared mission goals of multiple Federal agencies
- Expressly required by statutory mandate



| 17 Themes | Datasets |
|--------------------------------------------------------------------|------------|
| Address | TBD |
| Biodiversity and Ecosystems | 7 |
| Cadastral* | 19 |
| Climate and Weather | 5 |
| Cultural Resources | 2 |
| Elevation* | 12 |
| Geodetic Control* | 4 |
| Geology | 6 |
| Governmental Units, Administrative, Statistical Boundaries* | 41 |
| Imagery* | 9 |
| Land Use - Land Cover | 14 |
| Real Property | 14 |
| Soils | 5 |
| Transportation* | 16 |
| Utilities | 2 |
| Water – Inland* | 5 |
| Water - Oceans and Coasts* | 16 |
| Total NGDA Datasets: | 177 |
| *Framework themes | |



NGDA Lifecycle Maturity Assessment (LMA)

- Baseline assessments of all 177 NGDAs completed December 2015
- Majority of NGDAs rated as mature
- Completed LMA process analysis to identify lessons learned (2016)
- NGAC completed review of NGDA process (2016)
- 2017 assessments in progress
- LMA provides a consistent approach for characterizing NGDA maturity



The Geospatial Data Lifecycle stages for developing, managing and reporting nationally significant datasets from [A-16 Supplemental Guidance](#) p.16

www.geoplatform.gov/A-16-NGDA-Theme-Community/LMA

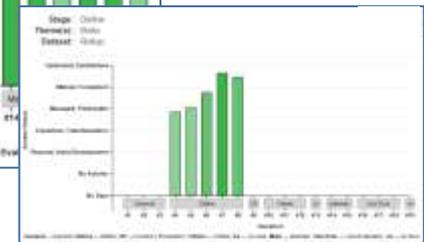
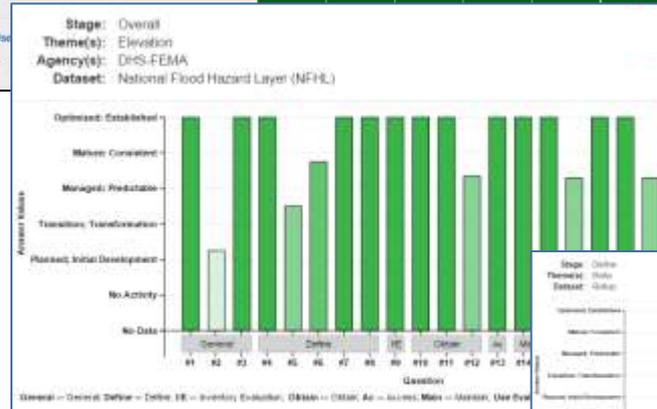
NGDA LMA Performance Dashboard

- ❖ Tools to measure, monitor, and report on NGDAs and services
- ❖ NGDA Dataset Lifecycle Maturity Assessment survey tools
- ❖ Requires GeoPlatform login

GeoPlatform Performance Dashboard

Submissions as of 12/31/2015

| Dataset | General | Define | Inventory Evaluation | Obtain | Access | Maintain | Use Evaluation | Archive | Overall | Theme | Agency |
|---------------------------------------------------------------------------------------|---------|--------|----------------------|--------|--------|----------|----------------|---------|---------|--------------------|------------|
| Rollup | 4/5 | 4/5 | 5/5 | 5/5 | 5/5 | 4/5 | 4/5 | 4/5 | 4/5 | | |
| 1 meter Digital Elevation Models (DEMs) - USGS National Map ● 65.00 ○ 45a | 4/5 | 5/5 | 5/5 | 3/5 | 5/5 | 4/5 | 5/5 | 3/5 | 4/5 | Elevation | DOI-USGS |
| 1/3rd Arc-second Digital Elevation Models (DEMs) - USGS National Map ● 59.00 ○ 36a | 4/5 | 5/5 | 5/5 | 4/5 | 5/5 | 4/5 | 5/5 | 3/5 | 4/5 | Elevation | DOI-USGS |
| 114th Congressional District ● 99.72 ○ 0.36a | 5/5 | 5/5 | 5/5 | 5/5 | 5/5 | 5/5 | 5/5 | 5/5 | 5/5 | Governmental Units | DOC-Census |
| 2010 Census 5-digit ZIP Code Tabulation Area ● 99.27 ○ 0.93a | 5/5 | 5/5 | 5/5 | 5/5 | 5/5 | 5/5 | 5/5 | 5/5 | 5/5 | Governmental Units | DOC-Census |
| 2010 Census Population & Housing Unit Counts ● 99.70 ○ 0.39a | 5/5 | 5/5 | 5/5 | 5/5 | 5/5 | 5/5 | 5/5 | 5/5 | 5/5 | Governmental Units | DOC-Census |
| 2010 Census Public Use Microdata Areas ● 99.27 ○ 0.93a | | | | | | | 5/5 | 5/5 | 5/5 | Governmental Units | DOC-Census |



Performance Dashboard - Reliability

The screenshot displays the GeoPlatform Performance Dashboard. On the left, a list of services is shown with their respective reliability scores and response times. A grid of colored cells (green and yellow) represents the reliability scores for each service across different time periods. On the right, a map of the United States is shown with numerous yellow location markers. Below the main dashboard, a detailed view of the 'USGS National Structures Dataset' service status is shown, including a table of service performance data.

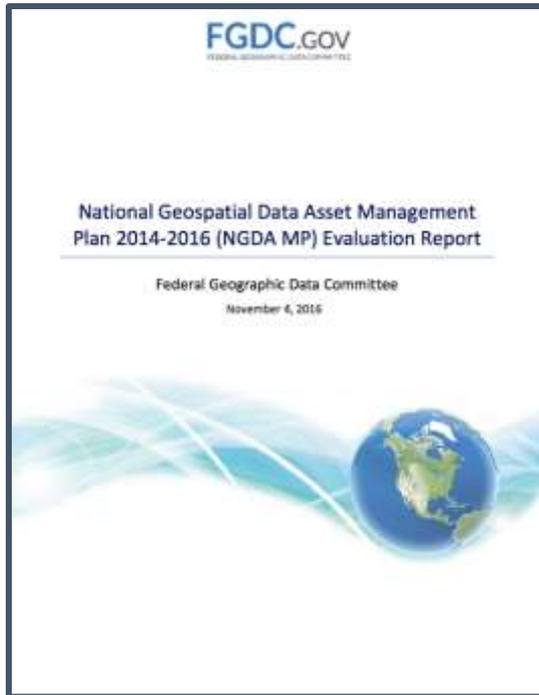
| Service | Reliability | Speed |
|----------------------------------------------------------|-------------|-------|
| U.S. Marine Protected Areas Boundaries: MPA Inventory | 98.42 | 2.03s |
| US Canadian Boundary | 3/5 | 2/5 |
| US Forest Service Forest Inventory and Analysis Database | 4/5 | 5/5 |
| USGS National Geologic Map Database Collection | 3/5 | 4/5 |
| USGS National Structures Dataset | 4/5 | 22.5s |
| Unified School Districts | 98.83 | 1.5s |
| Watershed Boundary Dataset (WBD) | 5/5 | 30s |
| Waterways | | |
| Waterway No. | | |

| Timestamp | Reliability | Speed |
|------------------------|-------------|-------|
| 03/07/2016 02:31:10 PM | 99.8 | 0.26s |
| 03/07/2016 10:48:22 AM | 99.8 | 0.26s |
| 03/07/2016 10:21:45 AM | 99.8 | 0.26s |
| 03/07/2016 02:21:46 AM | 99.84 | 0.2s |
| 03/05/2016 06:21:41 PM | 99.84 | 0.2s |

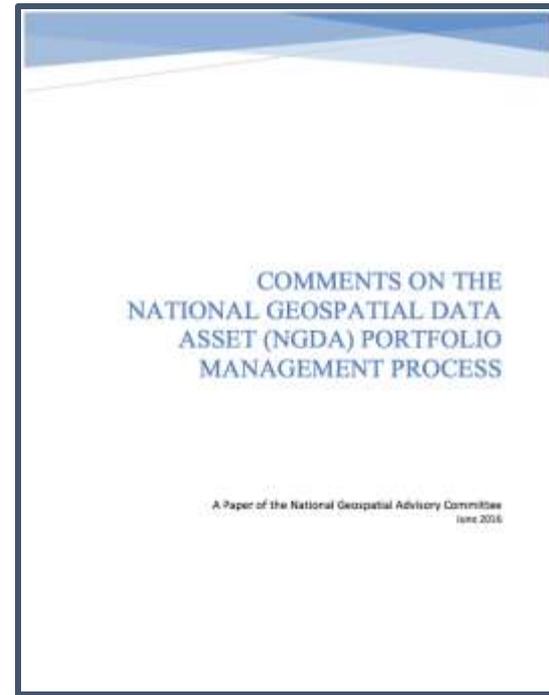
Reliability of USGS National Structures Service



2016 Reviews of NGDA Process



**FGDC NGDA Management Plan
Evaluation Report**



**NGAC Comments on NGDA Portfolio
Management Process**



FGDC NGDA Evaluation - Overview

Goal: Assess National Geospatial Data Asset Management Plan (NGDAMP) actions and activities

- Report the value of the assessment and actions
- Recommend follow-on actions to advance portfolio management
- Develop methods for improving reporting of value of portfolio management
- Align recommended actions with the next NSDI Strategic Plan

Approach:

- Theme Lead Discussion Forum
- Feedback from NGDA agency representatives
- Input from NGAC Report and NSDI Strategic Framework Workshops

Timeframe:

- Paper approved in November 2016 (login required)

https://cms.geoplatform.gov/ncc/filedepot_download/5891/65



NGAC NGDA Review - Overview

Task: Provide high-level feedback on the FGDC's National Geospatial Data Asset/portfolio management process. Provide input on potential strategic actions based on the results of the NGDA Management Plan evaluation.

- **Membership:** Bert Granberg (lead), Amber Reynolds, Tony Spicci, Harvey Thorleifson, Jason Warzinik.
- **Approach:**
 - Briefings from FGDC NGDA team – capture real-time comments
 - Review documents/status reports, compile high-level comments
- **Timeframe:**
 - Paper approved at June 2016 NGAC meeting:

<https://www.fgdc.gov/ngac/meetings/june-2016/ngac-paper-comments-on-ngda-portfolio-management.pdf>

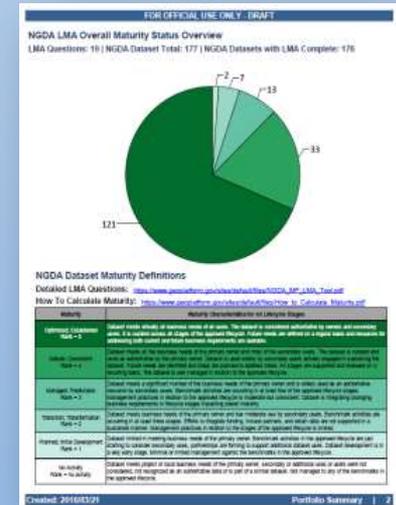
NGAC NGDA Review - Highlights

| Themes | Key Points |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring Value of the LMA Process | <ul style="list-style-type: none">• NGDA Datasets are public assets - must be planned for, supported, and periodically assessed• Promote awareness of LMA review process and results |
| NGDA Dataset Designation and Potential Tiering | <ul style="list-style-type: none">• Evaluate possible additions or modifications to the list of NGDA Datasets• Consider “tiered” approach to NGDA Datasets |
| Importance of Web Services | <ul style="list-style-type: none">• Expand web services into the Geoplatform and LMA dashboard with respect to content and functionality |
| Longitudinal Value | <ul style="list-style-type: none">• Maintain continuity for LMA dataset analysis over time |
| Content and User Interface | <ul style="list-style-type: none">• Several suggestions for improving the LMA interface (e.g.: consider removing login requirements) |

NGDA Portfolio Management Next Steps

- Complete 2017 Lifecycle Maturity Assessment and update performance dashboard
- Using portfolio management to improve NGDA maturity, quality, use and access to web services
- Discuss Geospatial Investments approach
- Develop Theme Implementation Plans based on Theme Strategic Plans
- Consider additional datasets as NGDAs
- Encourage more collaboration and coordination of agencies and key NGDA personnel within and across Themes
- Include Non-Federal stakeholders: e.g. coordination with COGO on alignment with COGO framework data report card process

Draft Portfolio Summary



Discussion Topics

- ❖ FGDC is currently developing an overall portfolio summary. What types of information does NGAC find important to show in an overall aggregated Portfolio Summary?
- ❖ How can the NGDA portfolio management process be more usable to external groups or your communities?