

GeoPlatform Update

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Topics

1. Planning for the next generation of the GeoPlatform
2. Overview of current capabilities
3. Facilitated discussion
4. Planning/Next Steps

Planning the Next Generation GeoPlatform

- ❖ FGDC planning process to determine scope & requirements for next version of GeoPlatform
- ❖ GeoPlatform support contract re-compete in 2019
- ❖ Conducting workshops with FGDC Exec Committee, Coordination Group & NGDA Theme Leads
- ❖ Key themes:
 - Assess the current state and value of the GeoPlatform
 - Identify current and future capabilities & requirements
 - Develop a shared commitment to address problems, mitigate threats, and leverage strengths and opportunities
 - Identify ideas and actions for moving forward
- ❖ Next steps – seek feedback from non-Federal partners

Geoplatform SPOT Matrix

INTERNAL/CURRENT

EXTERNAL/FUTURE

STRENGTHS

- Standards & APIs; Open Interoperability x
- Branding/Exposure; brand equity xx
- Wealth of geospatial data/NGDA Authoritative data x
- Vendor agnostic open architecture
- Solid platform & infrastructure
- Interagency funding model – “skin in the game”
- Partnership/trust
- ID & access model
- Metadata accessibility
- Coordination across communities
- Reducing redundancy
- Managed services / new customers

OPPORTUNITIES

- ✓ Marketing xxx -build on hurricane response story xxx; Shared services; Operational requirements;
- ✓ Transition from Dev to Operational x
- ✓ NAD – cross-cutting gov’t supports open source xx; CIBORG
- ✓ Show federal leadership x
- ✓ Policy-level connections -geo communities & unified message
- ✓ Strengthen links to federal/national mission community
- ✓ International, State Federation content
- ✓ Leveraging ELAS with Esri & intergovernmental networks
- ✓ Engaging non-ExCom agencies
- ✓ Focus content & search, clarify classified data,
- ✓ Expand user base / user needs assessment.
- ✓ Marketplace
- ✓ Public-private partnerships
- ✓ ID Use cases; clarify vision

- Expanding networks
- Sophistication of consumer technology
- Streamlining regulations

PROBLEMS

- Many stakeholders/few champions x
- TRNG, outreach, marketing x
- Governance x
- Adoption – internally & externally
- Unclear customer
- Clarify classified data
- Administrative barriers
- Difficult to navigate site
- Weak requirements & product management
- Connection & workflow with data.gov
- Enthusiast/specialist driven, soft value proposition
- Duplication – disaster response, theme vs sub pages
- Data gaps
- Info sharing consistency

THREATS

- Pass the hat funding model xx
- Data stewardship – up to date data x
- Trust sustainment (risk)
- Perceived duplication x
- Data search/refined – data.gov vs. geoplatform.gov vs. FGDC.gov x
- Increased costs/lack of \$ x
- Apathy, lack of users
- Vendor lock-in
- Political sponsorship
- Maintaining governance
- Cyber security
- OMB insignificance
- Licensed data
- App ecosystem & consumer computing
- Knowing what is authoritative data
- Weak linkages to managing partner & programs

-DRAFT-

Continue

What do we need to continue or keep?

- Personal outreach to programs
- Continue to improve the map viewer
- Metadata catalogue
- Continue Cloud support
- Security authorizations & controlled access
- Continue support for communities
- Develop more use cases
- Vendor-agnostic approach
- Collaboration activities, including both AGOL & Open GIS

Improve

What do we need to improve?

- Map viewer guidelines on how to use
- Basic IT support
- Improve search capabilities
- Metadata catalogue – improve search & documentation of links
- Clarify connection between GeoPlatform.gov & FGDC.gov
- Drive users to the communities – most collaboration is done outside of the communities right now (email, calls, etc.)
- Improve user interface – make key functions more visible & highlight key features & Geo community activities
- Marketplace – terminology & how to use



1

2

CG/TL GeoPlatform Current State Analysis

Stop

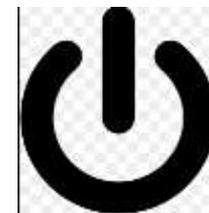
What do we need to stop doing?

- Adding additional capabilities or enhancements until current capabilities are refined
- Need business case for new functions
- Don't roll out new features before getting input/feedback
- Don't put resources into features that are under-utilized – go back to core Platform goals
- Be mindful of burden on NGDA staff in agencies
- Consider not posting theme-level strategic plans on GeoPlatform

3 Start

What do we need to start doing?

- Use assessment of features; metrics
- Re-evaluate those features that are under-utilized
- Move subcommittees and theme communities requirements to the GeoPlatform
- Use GeoPlatform to communicate key issues in the geospatial world (e.g., Datum change, etc.); become the resource for geospatial information
- Improve outreach & education activities
- Develop User Guide – how to get started (e.g., YouTube videos, etc.)



4

Summary of Key Messages

- Continue with support for GP with improvements
- More outreach and help on how to utilize GP capabilities for agencies/users to increase uptake by more agencies
- Improve search capabilities
- Utilize the marketplace, ensure components will be used prior to creating new capabilities
- Continue cloud services, secured environment
- Continue communities and drive more users to them
- Revisit NGDA management requirements and LOE
- Assess GP features and communities usage
- Improve outreach, education, and user guides
- Become the resource for geospatial information

GeoPlatform - Delivering Geospatial Services to the Nation



Menu Sign In

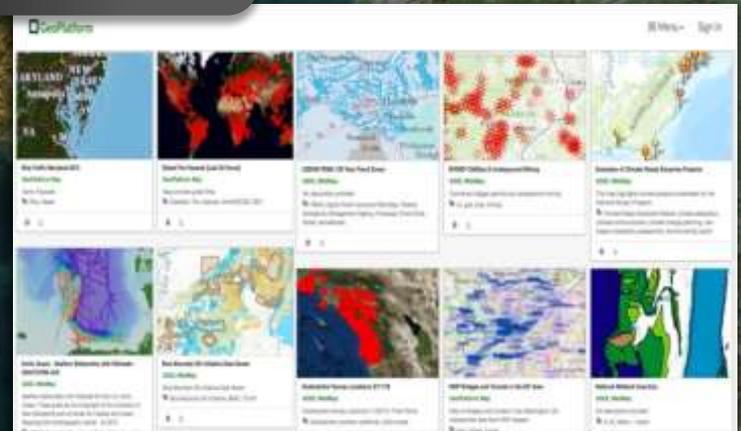
The GeoPlatform links and connects Local-to-National
Data, Information and Knowledge

Welcome to the Geospatial Platform

The GeoPlatform provides shared and trusted geospatial data, services, and applications for use by the public and by government agencies and partners to meet their mission needs.

GeoPlatform users have access to

- A one-stop shop that delivers trusted, consistent data and services
- Authoritative data to support informed decision making
- Reusable applications and services for governmental and nongovernmental use
- A shared infrastructure that can host your data and applications
- A focal point where governmental, academic, private, and public data can be visualized together to inform national and regional issues



Geospatial Platform Services

 GEOPLATFORM.gov

 Data Services

 GEOPLATFORM.gov

 Applications & Tools

 GEOPLATFORM.gov

 Shared Services

 GEOPLATFORM.gov

 Communities



GeoPlatform Supports NSDI National Priorities

- Supports national partnerships for the development, sharing and use of critical national assets
 - ❖ A seamless gateway to access and exploit national geospatial assets
 - ❖ Tools for intergovernmental collaboration through rich community experiences
- Enhances management and use of the national portfolio in a consistent and robust manner
 - ❖ Management and accessibility of consistently documented geospatial data and services across the geospatial community – e.g. States data records are harvested through NSGIC into GeoPlatform
 - ❖ Robust reliability and utility monitoring and reporting of ALL geospatial resources
- Supports Administration Priorities
 - ❖ Reorganizing Government
 - ❖ Infrastructure Investments
 - ❖ Border Security
- Implements recommendations by GAO in support of improved data sharing, collaborative investment, and improving data discovery and access services for users – e.g. Geospatial Marketplace, and NGDA management

National Geospatial Data Asset (NGDA) Data Themes

Address

Biodiversity & Ecosystems

Cadastre

Climate & Weather

Cultural Resources

Elevation

Geodetic Control

Geology

Government Units

Imagery

Land Use & Land Cover

Real Property

Soils

Transportation

Utilities

Water-Inland

Water – Oceans & Coasts

GeoPlatform's Key Differentiators

- A **unified national portfolio solution** for integrating and exploiting the nation's ecosystem of diverse geospatial resources
 - ❖ Across federal, state, local, tribal and non-government organizations
 - ❖ Embraces **all** technology platforms; knowledge, tools, and expertise can be shared with many other stakeholders
 - ❖ Open—open standards taking open data to the next level
- A robust, consistent way of **managing** geospatial assets and assessing performance and reliability across the nation's geospatial ecosystem
- The tools for quickly standing up **cross-agency communities** with dynamic services and content to answer questions that cross organizational boundaries
- Managed **hosting services** for geospatial assets – Reducing costs and improving performance
 - ❖ [FEMA](#) and Army Corp Production GIS environments
 - ❖ Multiple Bureau's using our shared service (NPS, BLM, USGS, BOR, OSMRE)

GeoPlatform Capabilities

- **Search**—search the database for GIS data, layers, services, and maps. GeoPlatform pulls in GIS from data.gov and has additional maps added by federal agencies. ckan.geoplatform.gov
- **Map Manager**—organize and view the most relevant maps for a specific project. maps.geoplatform.gov/maps
- **Performance Dashboard**—view the maturity level of datasets and see dataset ratings with a grade and a reliability level. dashboard.geoplatform.gov
- **Marketplace**—search the listings to determine whether a potential partner is already trying to acquire the same data. marketplace.geoplatform.gov
- **Object Editor**—create, augment, and link datasets, services, layers, organizations, contacts, concepts (e.g., themes, keywords, and controlled vocabularies), maps and galleries as a portfolio of GeoPlatform business objects.

Additional Capabilities

- **Cloud Hosting**—secure enclave in the cloud to host GIS applications, data and services using either ESRI or OpenGIS suites. geoplatform.gov/cloud-hosting-services
 - ❖ Maintenance and operation of the AWS servers is included in the contract, and the amount of storage space and computing available is flexible to accommodate increased use during events.
 - ❖ GeoPlatform cloud hosting is secure--up to FISMA level moderate.
- **Communities**—dedicated space to collaborate among agencies and work together to solve common problems. geoplatform.gov/communities-agencies
 - ❖ Each agency or data provider can log into the community hosted by GeoPlatform, and there they can see and share each others' data and maps.
 - ❖ Community members can combine data and create new maps online together.
 - ❖ All community pages use WordPress, an easy-to use and update back-end.

Lots of data out there! Here's a small sample...

■ A-16 National Geospatial Data Assets (NGDA)

- 177 datasets

■ Data.gov

- 123,703 geospatial datasets and (and 32+ services)

■ EPA Environmental Data Gateway (EDG)

- 3,034 items

■ NOAA GEO-IDE UAF ERDDAP

- 8,985 datasets

■ NOAA CSW

(<https://data.noaa.gov/csw?REQUEST=GetCapabilities&SERVICE=WFS>)

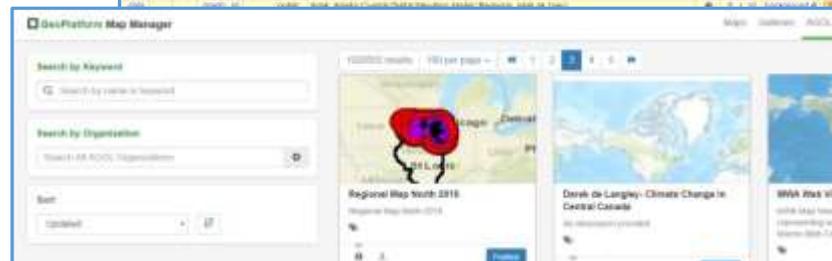
- 45,654 datasets (and 65 services)

■ ArcGIS Online (1,789,273+ maps, 678,262+ services)

- GeoPlatform.gov on AGOL: (681 Web Maps, 644 Services)

The screenshot displays the "The NOAA GEO-IDE UAF ERDDAP" page, which is a "List of All Datasets". It includes a search bar and a table of datasets. The table has columns for "Title", "Date", "Access", "Metadata", "Content", and "Owner".

Title	Date	Access	Metadata	Content	Owner
NOAA NCEP Climate Data	2013-01-01	Public	Metadata	Climate Data	NOAA
NOAA NCEP Ocean Data	2013-01-01	Public	Metadata	Ocean Data	NOAA
NOAA NCEP Air Quality Data	2013-01-01	Public	Metadata	Air Quality Data	NOAA



Discussion Topics

- ❖ What are the primary benefits and value of the GeoPlatform to your organizations?
- ❖ How could the GeoPlatform become more useful to non-federal organizations?
- ❖ Follow-up topic: Provide feedback on GeoPlatform capabilities – how can they be improved and enhanced for the user?