GeoPlatform.Gov
Building the Geospatial Platform

Status Update and Discussion
NGAC Meeting
June 22, 2010

Outline

◆ **Past**
  - Genesis of Platform
  - Building on Previous Activities
  - Roadmap Development Approach and Timeline

◆ **Present**
  - Components of Platform Roadmap Version 2

◆ **Future**
  - Status of Review Comments
  - Outreach and Communication

fgdc
FederalGeographicDataCommittee

Call to Action

"In 2010 and 2011, Federal data managers for geospatial data will move to a **portfolio management approach**, creating a Geospatial Platform to support **Geospatial One-Stop, place-based initiatives, and other potential future programs**. This transformation will be facilitated by **improving the governance framework** to address the requirements of State, local and tribal agencies, Administration policy, and agency mission objectives. **Investments will be prioritized based on business needs.** The Geospatial Platform will explore opportunities for increased collaboration with Data.gov, with an emphasis on **reuse of architectural standards and technology**, ultimately **increasing access to geospatial data**."
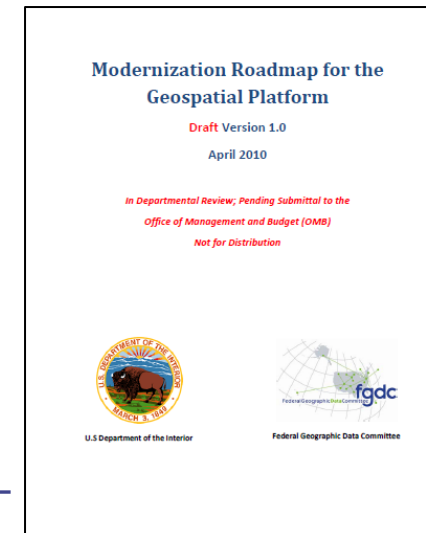
President's Budget, Fiscal Year 2011

fgdc
FederalGeographicDataCommittee

Roadmap Purpose Background

- Respond to FY2011 President's Budget Direction to develop a Modernization Roadmap to implement the Geospatial Platform – due July 1, 2010

- Roadmap Purpose:

  - Define geospatial platform and establish **vision and purpose**

  - Describe future state **technology architecture**

  - Identify **processes and organization elements** to ensure success

  - Describe strategic path forward to **implement vision**

  - Identify **actionable projects and activities** for short- and mid-term implementation; including operations

Modernization Roadmap for the Geospatial Platform

Draft Version 1.0

April 2010

In Departmental Review; Pending Submittal to the Office of Management and Budget (OMB)
Not for Distribution

U.S Department of the Interior

Federal Geographic Data Committee

FederalGeographicDataCommittee **fgdc**

Building on Prior Activities   *Background*

◆ Immediate recognition of ability to build on past activities to develop Roadmap

- Geospatial One-Stop

- Geospatial Line of Business

  - Common Solutions and Target Architecture

  - A-16 Supplemental Guidance

  - Geospatial SmartBUY

- Geospatial Segment Architecture Guidance

- Building on prior successes (Data.gov, ERMA)

fgdc
FederalGeographicDataCommittee

Approach and Personnel   *Background*

- Short timeline requires rapid development of iterative work products

- Content developed by Platform Pillar Working Groups along with Platform Core Team – volunteered resources from agencies

- Draw upon a mix of SAOGIs, FGDC CG, Secretariat staff, other agency geospatial staff, and contract support

  - Executive Sponsor – Karen Siderelis, DOI

  - Project Manager – Tony LaVoi, NOAA

  - Contractor support via Geo Line of Business PMO (Grant Thornton)

- Socialize iterative versions of Roadmap with key stakeholders at various times in May and June

fgdc
FederalGeographicDataCommittee

Pillar Work Groups

Pillar	Champion	Co-Chairs	FGDC POC
Shared Infrastructure	Cotter, DHS	Binnie, DOI Williams, USDA	Nebert
Common Data, Services and Applications	Wallach, NGA	Byrne, FCC Fusaro, DOC	Shaffer
Segment Architecture	Klimavicz, DOC	Doorn, NASA Booth, DHS	Nebert
Governance Structure	Siderelis, DOI	Mullen, NGA Walker, OMB	Mahoney
Portfolio Management	Johnston, EPA	Gardner, NASA Blake-Coleman, EPA	DeLoatch
Outreach & Communications	Lowe, USDA	Cahill, LOC Sperling, HUD	Mahoney/Shin

FederalGeographicData committee

Timeline

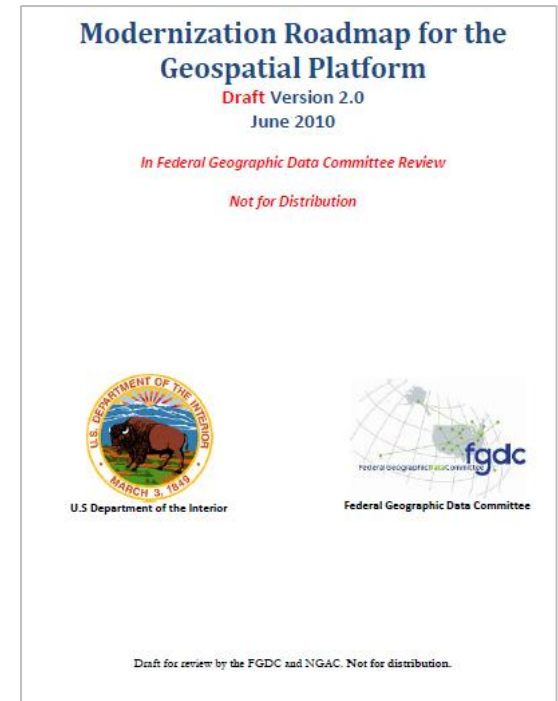| DATE	TASK
April/May 2010	Workgroups formed, draft conceptual Roadmap (V1) developed
June 8	FGDC Coordination Group meeting – public briefing
June 11	Draft Platform Roadmap (V2) completed
June 22-23	National Geospatial Advisory Committee meeting – discuss Roadmap V2
June 30	Platform Roadmap (V3) completed
July/August 2010	Stakeholder/Partner outreach & coordination (overall Platform plans currently in development)

fgdc
FederalGeographicDataCommittee

Roadmap Version 2

◆ *Modernization Roadmap for the Geospatial Platform, Draft Version 2.0* released on June 11

◆ Outline
- ■ Preamble
- ■ Executive Summary
- ■ Introduction
- ■ Pillars of the Geospatial Platform
- ■ Business Model
- ■ Roadmap for Implementation
- ■ Appendices

Modernization Roadmap for the Geospatial Platform
Draft Version 2.0
June 2010

In Federal Geographic Data Committee Review

Not for Distribution

U.S Department of the Interior

Federal Geographic Data Committee

Draft for review by the FGDC and NGAC. Not for distribution.

fgdc
FederalGeographicDataCommittee

Foundation

◈ Definition

The Geospatial Platform will be a managed portfolio of common geospatial data, services, and applications contributed and administered by authoritative sources and hosted on a shared infrastructure, for use by government agencies and partners to meet their mission needs and the broader needs of the Nation

◈ Vision

All government agencies and their partners have access to geospatial capabilities to meet mission needs, ensure transparency and accountability, and geo-enable the business of government

fgdc
FederalGeographicDataCommittee

Pillar – Common Services

◆ **Definition**

Standardized geospatial data, services and applications, that are used by two or more agencies or partners to meet business requirements and registered and discoverable through the Geospatial Platform

◆ **Selected Priorities**

■Discovery of geospatial data, services and applications

■Endorsement and enforcement of standards

■Geospatial Platform population with common data, services and applications

fgdc
FederalGeographicDataCommittee

Pillar – Shared Infrastructure *Present*

◈ **Definition**

Utilizing the same information technology components and investments

across multiple partner organizations for joint development, operations and

maintenance of geospatial activities

◈ **Selected Priorities**

- Robust and reliable hosts to deliver common data, services and applications
- GIS capabilities for agencies that need geospatial tools but do not have access to them
- Role-based access
- Maximize the value of cloud computing
- Support the direction of the broader government IT community

fgdc

FederalGeographicDataCommittee

Pillar – Segment Architecture *Present*

◆ **Definition**

Process-driven approach to designing and deploying large computing components in the context of a broader enterprise, which results in a design that can be readily deployed in an actionable solution architecture by partners that collaborate on geospatial data and services

◆ **Selected Priorities**

- Formal endorsement of the Geospatial Segment Architecture Guidance
- Requirements-based identification of common, high priority geospatial business activities and processes
- Assure that the technical architecture design supports cloud computing model
- Develop consensus and publish formal data content models for geospatial datasets of national significance

fgdc
FederalGeographicDataCommittee

13

Pillar – Governance

◆ **Definition**

> Process by which parties with a stake in the Geospatial Platform are afforded an opportunity to shape its structure, functions and capabilities

◆ **Selected Priorities**

- Platform implementation and sustainment

- Federal and non-Federal involvement in the Platform

- Development of operations approach and needed policies

fgdc
FederalGeographicDataCommittee

Pillar – Portfolio Management *Present*

◆ Definition

Set of processes by which the Geospatial Platform prioritizes, selects and allocates resources, as well as manages and evaluates their performance, to maximize enterprise value and obtain the best possible strategic impact of each investment
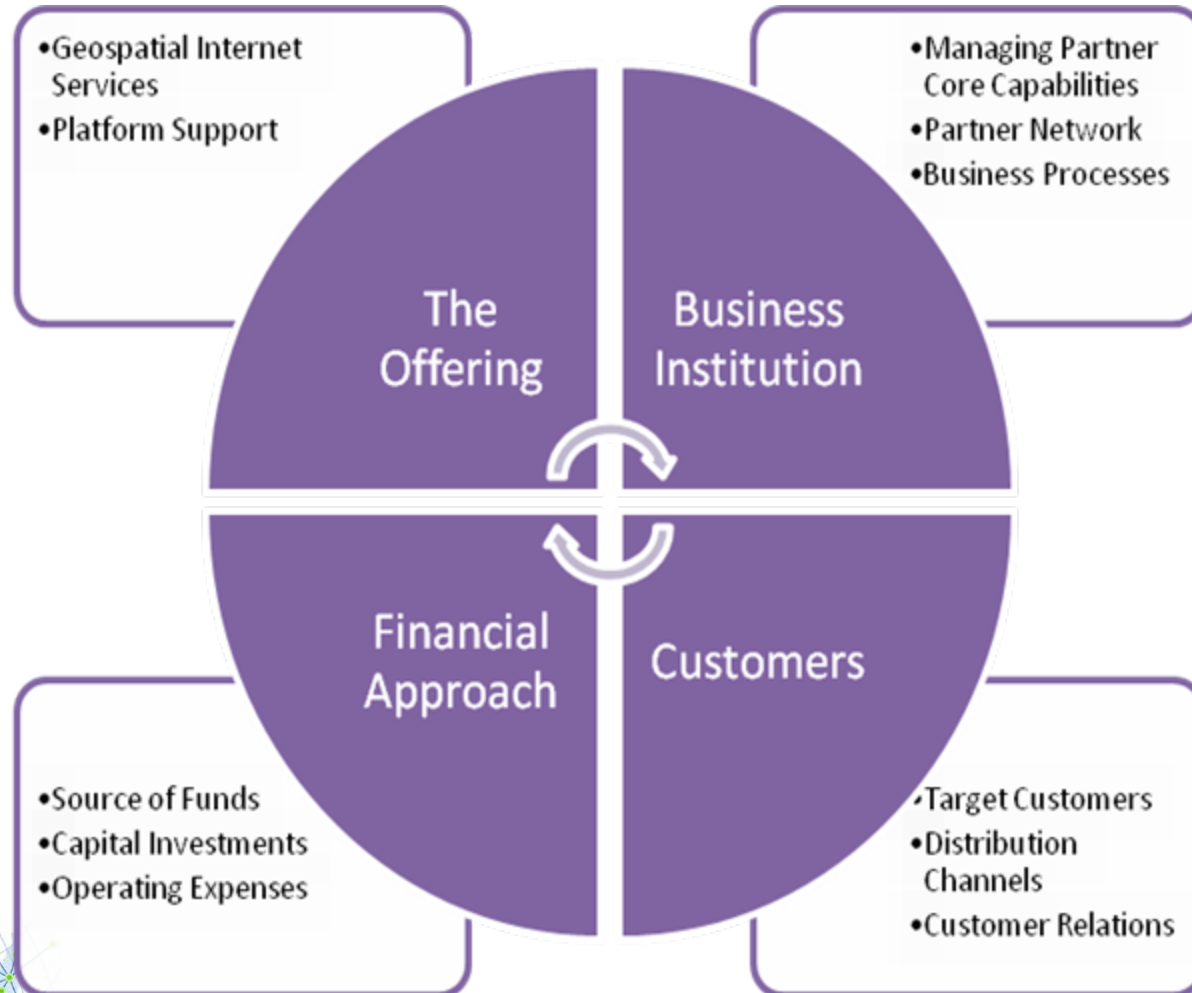
◆ Selected Priorities

- Formal endorsement and approval of the A-16 Supplemental Guidance
- Research and consider the ANSI Standard for Portfolio Management
- Improve the alignment of the FGDC cross-agency investments to Administration priorities and agency high value mission objectives
- Support Administration priorities for openness, transparency and participatory government
- Complete readiness assessment of various components so that the right investments are made

fgdc
FederalGeographicDataCommittee

Business Model

- Geospatial Internet Services
- Platform Support

- Managing Partner Core Capabilities
- Partner Network
- Business Processes

The Offering

Business Institution

Financial Approach

Customers

- Source of Funds
- Capital Investments
- Operating Expenses

- Target Customers
- Distribution Channels
- Customer Relations

fgdc
FederalGeographicDataCommittee

Implementation Approach

◆ **Key Implementation Elements**

- Shared long-term vision

- Phased implementation

- Collaboration with partners and stakeholders

    ◆ Implementation actions will be further refined through consultation with stakeholders and continued analysis of requirements

◆ **Project Management**

- Time Boxes 1 and 2 (through 12/10) – focus on collaboration/outreach, refining requirements, refining business model/funding approach, establishing managing partner, implementing quick wins

- Time Box 3 (FY 11) – continued phased implementation

- Time Box 4 (FY 12) – move to full operations mode

fgdc
FederalGeographicDataCommittee

Roadmap Comments *Future*

- ◈ NGAC review status
  - 10 individual members provided comments; 120 individual comments received
  - "Top Ten" lists from Governance, Partnerships and Platform Subcommittees

- ◈ Federal review status
  - 30 responses; 273 comments received

fgdc
Federal Geographic Data Committee

Outreach and Communication *Future*

◆ Created Outreach and Communication Work Group even though not one of the five Platform Pillars

◆ Multiple activities have occurred to date; currently developing Outreach and Communication strategy

- Clarify goals and objectives

- Identify target audience

- Craft messages

- Identify tools and implementation strategies

◆ Special session on this topic Wednesday afternoon

fgdc
FederalGeographicDataCommittee

Panel Discussion – FGDC Executive Committee Members