



Technical Deployment Task Team (TDTT) Recommendations

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FGDC Coordination Group

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Agenda

- ◆ Background
- ◆ Notional Technical Architecture
 - Candidate Components
 - Candidate Interfaces
- ◆ Contributing Data and Services

Bottom Line Up Front

- ◆ The TDTT's work is only the beginning
 - The proposed implementation uses borrowed capabilities on borrowed systems
 - ◆ Can it be scaled and at what cost?
 - ◆ Is the mission of providing the capabilities within the scope of the agencies who run the systems now?
 - ◆ What new systems are under development?
 - Marketing the capability will be essential
 - ◆ How is the capability proposed here better than anything now?
 - ◆ Who are the target users and how does it specifically meet their needs?
 - ◆ How will you reach the target audience?
 - Proper funding will be essential to success

Background

◆ Origin:

- Assembled December 2010, as a functional team comprised of representatives nominated by FGDC partner agencies and the Geospatial Platform Core Team

◆ Purpose:

- Recommend a path forward for implementation of Geospatial Platform common services and shared infrastructure
- Lead efforts to deploy "mature" capabilities identified in the Modernization Roadmap for the Geospatial Platform that provide a useful service, can be built upon, and can be undertaken quickly



Background

◆ Approach:

- Develop a set of requirements by evaluating existing Federal geospatial capabilities to determine their potential to meet the needs of the Geospatial Platform

◆ Outcome:

- Generate a Technical Deployment recommendation for the Geospatial Platform Core Team and FGDC Executive Committee which will include:
 - ◆ Notional technical architecture
 - ◆ Candidate solutions architecture(s)



Background

◆ Dates

- December 15, 2010 – Kick-Off Meeting
- January 4 , 2011 – USGS’s Geospatial One Stop (GOS), Data.gov capability demos
- January 5, 2011 – ESRI’s Geoportal Server (used by several federal organizations), Intelligence Community’s (IC) Enterprise Repository and Registry (ER2) capability demos
- January 13, 2011 – NOAA’s Environmental Response Management Application® (ERMA), NASA’s Spatial Web Portal (SWP) capability demos
- January 20, 2011 – Use Case development/review
- February 4, 2011 – Initial Architecture produced
- February 17, 2011 - USGS’s Global Earth Observation System of Systems (GEOSS) Clearinghouse, NASA’s Spatial Web Portal (SWP) capability demos
- February 23, 2011 – Prototype Architecture produced
- **March 7, 2011 – Recommendations to Core Team**



Background

◆ Team Members:

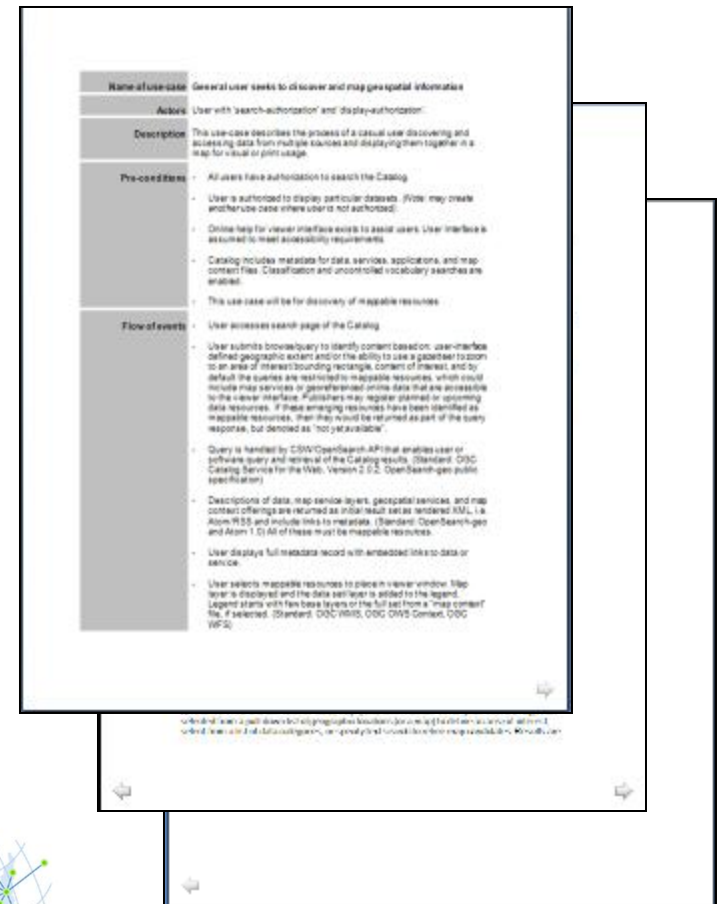
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Notional Technical Architecture – Use Case

◆ Casual User

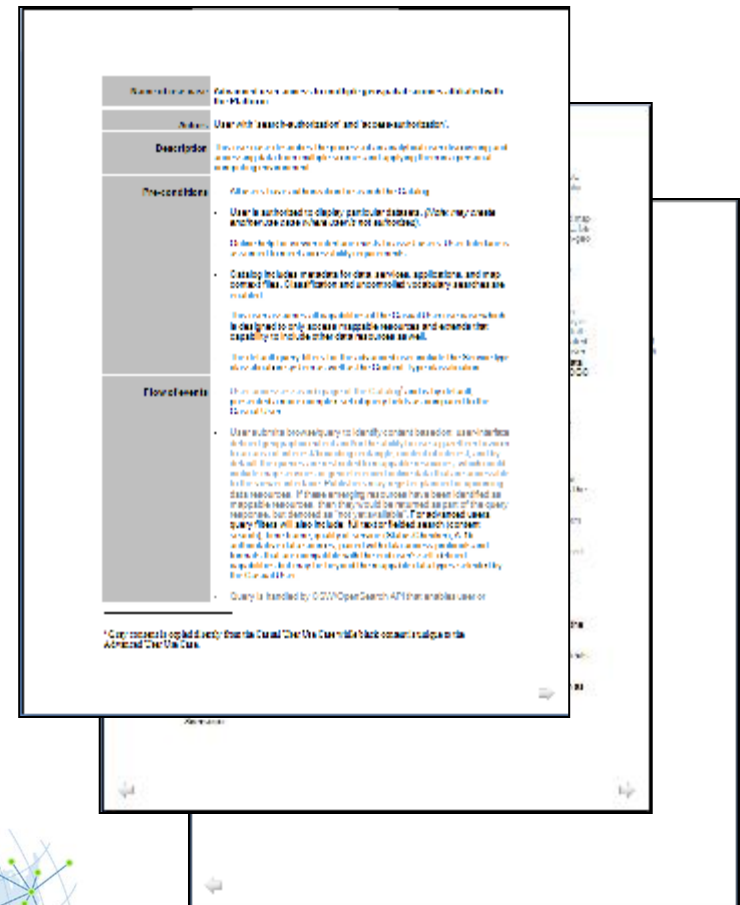
- This use-case describes the process of a casual user discovering and accessing data from multiple sources and displaying them together in a map for visual or print usage.



Notional Technical Architecture – Use Case

◆ Advanced User

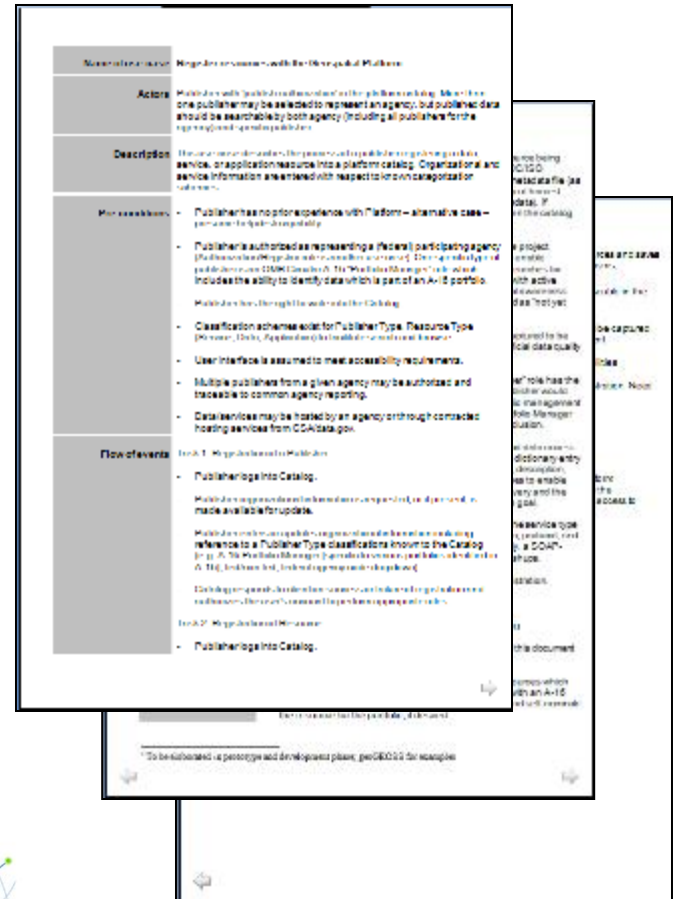
- This use-case describes the process of an advanced user discovering and accessing data from multiple sources and applying them in a personal computing environment.



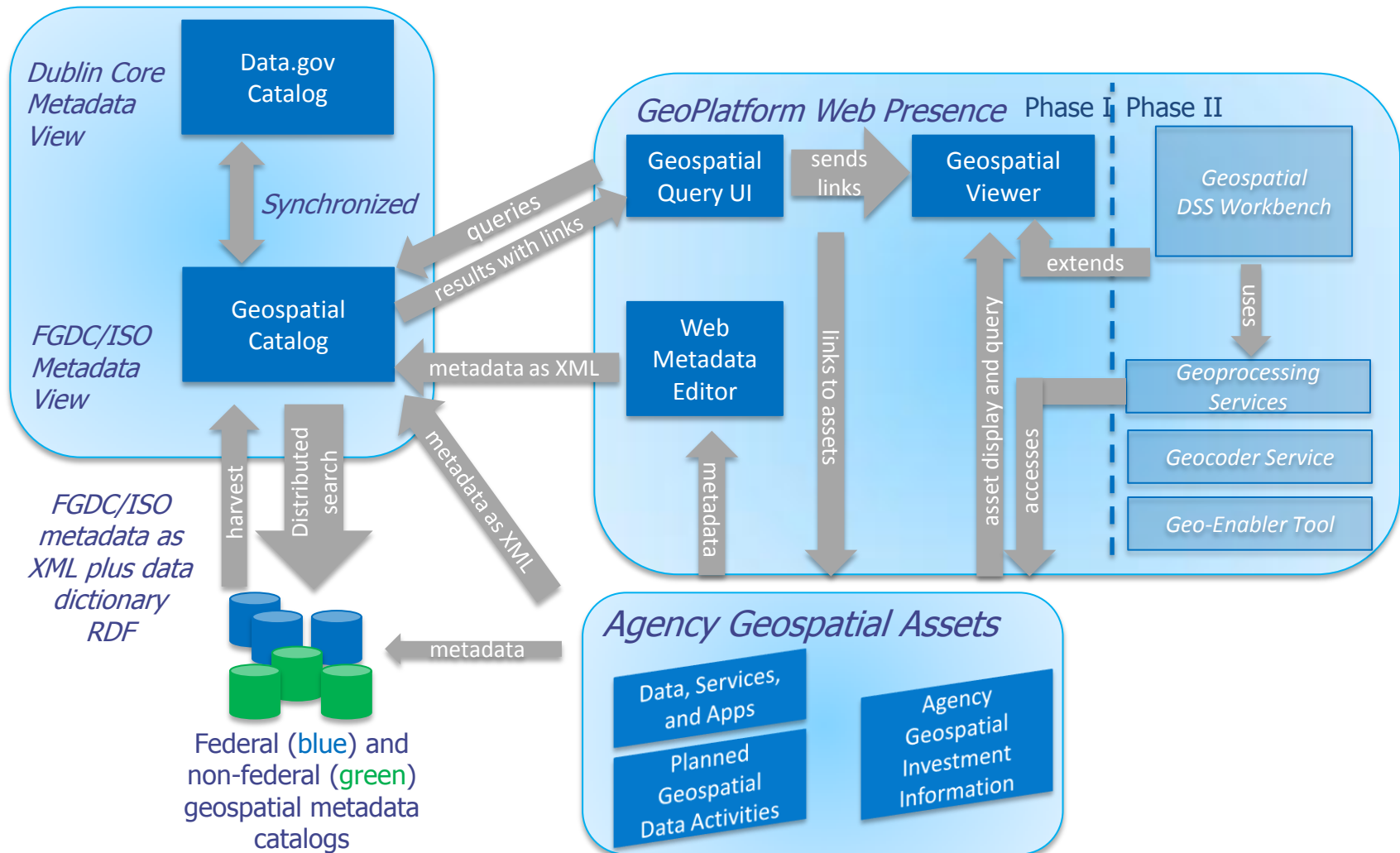
Notional Technical Architecture – Use Case

◆ Publisher

- This use-case describes the process of a publisher registering a data, service, or application resource into a platform catalog. A-16 Portfolio Designation is also handled within this use case.



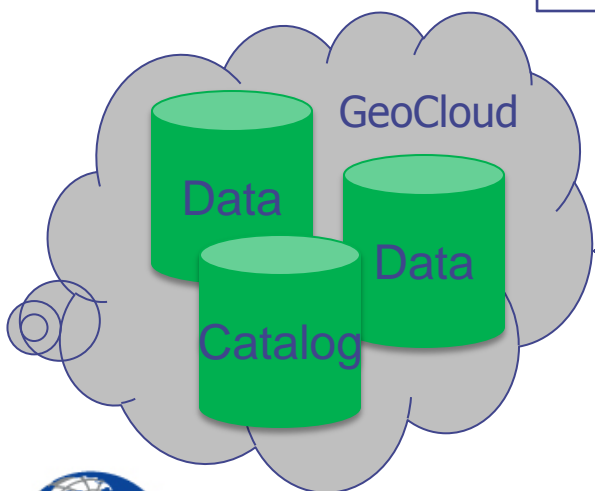
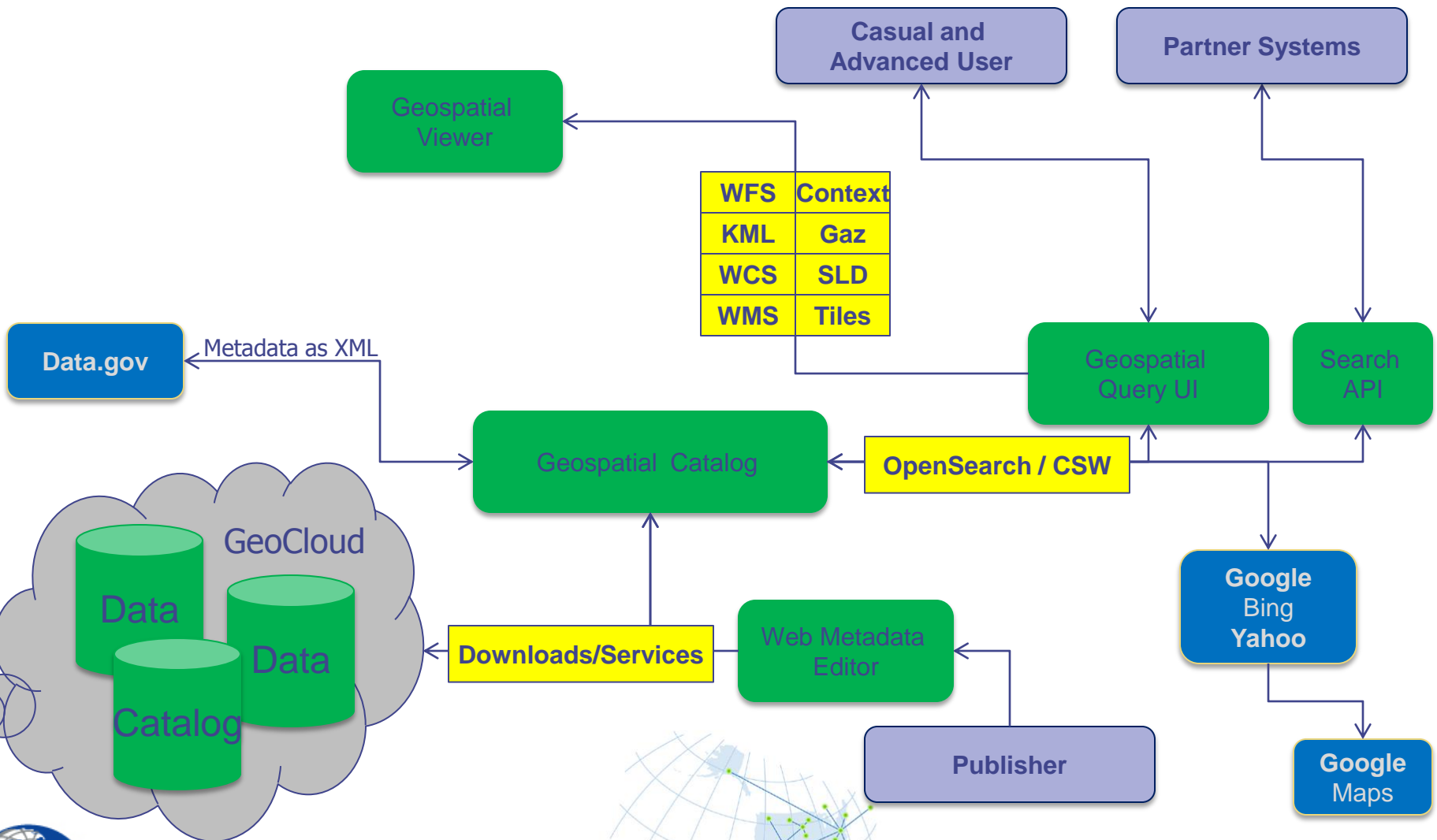
Notional Technical Architecture



Contributing Data and Services

- ◆ The Notional Technical Architecture is component-based
 - Open-standards-based components can be changed
- ◆ Publishers register content in the Geospatial Catalog using the Web Metadata Editor
 - Content is discovered by Users through the Geospatial Query UI
 - Mappable data is passed to the Geospatial Viewer
 - Publishers can register their catalog to support content search/harvest
- ◆ Content is discoverable and usable within the Geospatial Platform or other partner capabilities

Contributing Data and Services



Summary

- ◆ TDTT's work should be used
 - As base material for subsequent Task Teams
 - To communicate the desired end-state to partners of the Geospatial Platform
 - To communicate the desired end-state to developers and publishers
 - As the foundation for the Geospatial Platform

Summary

- ◆ Lots of work still remains to move forward the vision of the Geospatial Platform
- ◆ Being on a Task Team is fun! All of you should do it too!

- ◆ Questions?