

Department of Commerce FY15 Geospatial Strategy Implementation Plan Report

National and Departmental Geospatial Shared Services			
Strategic Goal 1 – Utilize capabilities of national and departmental geospatial shared services			
Anticipated Outcomes: Increase use of shared services for data, services, applications, and investments for Commerce geospatial portfolio			
Objective 1.1: Ensure full compliance with all requirements for the National Geospatial Platform Initiative			
Bureaus Involved: All bureaus using or producing geospatial data			
Actions	Milestone	Performance Indicators	Action Responsibility
The Department of Commerce will continue to meet Geospatial Platform requirements for activities such as publishing metadata, checking the Marketplace for potential partnering opportunities prior to acquiring data and services, and advertising planned acquisitions on the Marketplace.	Ongoing	Metadata will be published for all public products as products are released	Selected Bureau metadata managers
Agency	Activities Through FY15 late-Q4		
Census Bureau	<ol style="list-style-type: none"> 1. The Census Bureau is up to date on publishing metadata on data.gov for public geospatial products. Data.gov provides the metadata catalog for geoplatform.gov [ongoing] 2. The Census Bureau regularly checks the Geospatial Platform Marketplace for the availability of data prior to contacting partners for data acquisitions for the Geographic Support System Initiative. [ongoing] 3. The Census Bureau advertised the planned acquisition of commercial address, imagery, and road data on the Marketplace [April 2015] 		
NOAA	<ol style="list-style-type: none"> 1. NOAA publishes metadata to Data.gov through the agency-wide catalog data.noaa.gov. The catalog consists of nearly 65,000 records. [ongoing] 2. NOAA continues to publish metadata to the GeoPlatform Marketplace for planned acquisitions. [ongoing] 3. NOAA maintains and uses shared contract vehicles such as the Coastal Geospatial Services Contract and the Social Science Services Contract to ensure coordinated purchasing of data. In addition, NOAA uses the Seasketch online collaboration tool to coordinate and share planned acquisitions for ocean and coastal mapping data. [ongoing] 4. NOAA is coordinating with GeoPlatform.gov regarding the capability of Seasketch for use in the GeoPlatform Marketplace. [ongoing] 		

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Objective 1.2: Expand the use of cloud and shared computing environments as applicable for geospatial and data management activities			
Bureaus Involved: Census Bureau, NIST, NOAA			
Actions	Milestone	Performance Indicators	Action Responsibility
<p>The Census Bureau is expanding the use of cloud and shared computing environment by developing Community TIGER, a cloud based tool to facilitate data submissions and data management for address points and street centerline data from tribal, state, and local partners.</p>	<p>Complete Community TIGER beta testing FY15 Q3</p>	<p>Meet beta testing completion date</p>	<p>Census Bureau Community TIGER Manager</p>
<p>The Census Bureau will continue to develop and maintain TIGERweb, a web based mapping application and that offers data and map viewing, analytical tools, and embeddable map services.</p>	<p>Update TIGERweb data in synchronization with TIGER Benchmarking and ACS release dates</p>	<p>Meet data update benchmarks</p>	<p>Census Bureau TIGERweb Manager</p>
<p>The Census Bureau will continue to develop and maintain the publically available Census Bureau Geocoder as a web application and mapping service and plans to transition the host from the Census Bureau to the Geospatial Platform.</p>	<p>Develop schedule for deployment by FY15 Q4</p>	<p>Meet milestone date for developing deployment schedule</p>	<p>Census Bureau Census Geocoder Manager</p>
Agency	Activities Through FY15 late-Q4		

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Census Bureau	<ol style="list-style-type: none"> 1. There are currently users registered to use Community TIGER in the cloud. Census will receive both feedback and data from these partners as they work with the software. Census is still looking to register more users and will be staffing a booth and potentially presenting on Community TIGER at the Arizona Geographic Information Council Education & Training Symposium. 2. TIGERWeb is being updated with 2015 ACS data and will reflect this data by the end of September. 3. The Census Bureau concluded that the Census Bureau Geocoder is not a good candidate for the Geospatial Platform due to its configuration with respect to TIGERweb. The Census Bureau will identify a new tool(s) to host on the Geospatial Platform.
NOAA	<ol style="list-style-type: none"> 1. NOAA awarded the Big Data Partnership Cooperative Research and Development Agreements (CRADA) with five cloud providers: Amazon, Microsoft, IBM, Google, and Open Commons Consortium. The NOAA Big Data Partnership's goal is to develop effective public-private partnerships with the private sector and academia to provide enhanced access to NOAA's data, much of which is geospatial. 2. NOAA has begun the development of a NOAA Enterprise Cloud Strategy to educate NOAA offices on what is available via the cloud and how they might contract for these services. The initial draft of the strategy should be complete in FY16Q2. Additionally some NOAA programs have begun to implement prototype applications in the cloud to assess the fit for operational hosting. 3. NOAA continues to manage the NOAA GeoPlatform, a peered site to the National Geospatial Platform. The NOAA site is hosted via the Esri ArcGIS Online cloud environment.

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Objective 1.3: Utilize geospatial multiagency acquisition vehicles for interagency and intergovernmental purchases of geospatial data and services as appropriate

Bureaus Involved: All bureaus using or producing geospatial data

Actions	Milestone	Performance Indicators	Action Responsibility
The Department of Commerce will continue to utilize agency wide geospatial enterprise licensing agreements as well as geospatial multiagency acquisition vehicles when available.	Service agreement renewal dates	Maintain existing agreements	Geospatial SME and Contracting Officers
Agency	Activities Through FY15 end-Q4		
Census Bureau	1. The Census Bureau currently has an enterprise license agreement (ELA) with Esri for geospatial software and services. This ELA is in effect through FY2017.		
NOAA	1. NOAA has enterprise license agreements with Esri and Google for geospatial software and services through the end of April 2018. 2. NOAA maintains and uses the Coastal Geospatial Services Contract and the Social Sciences Services Contract vehicles which provide coordinated purchasing capability to NOAA and other Federal organizations. These vehicles determine if data is already available before contracting for new data collection. In addition, NOAA provides the Seasketch online GIS collaboration tool to help coordinate mapping and data needs for the Integrated Ocean and Coastal Mapping (IOCM) activities. <i>[ongoing]</i>		

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<p>Geospatial Data and Services Accountability and Management</p> <p>Strategic Goal 2 – Ensure accountability and effective development and management of Commerce geospatial resources</p> <p>Anticipated Outcomes: Enhance access to Commerce high-quality geospatial resources and foster enhanced interoperability across information systems</p>			
<p>Objective 2.1: Comply with requirements for the OMB Circular A-16 Portfolio Management Process for National Geospatial Data Assets (NGDA)</p> <p>Bureaus involved: Census Bureau, NOAA</p>			
Actions	Milestone	Performance Indicators	Action Responsibility
<p>The Department of Commerce Bureaus theme leads will follow the requirements and guidelines for portfolio management of their respective themes. This includes registering data sets and services on the Geospatial Platform and establishing the theme community collaboration webpages.</p>	<p>Ongoing per NGDA Management Plan quarterly goals.</p>	<p>Meet all NGDA Management Plan quarterly goals.</p>	<p>DOC NGDA Theme Leads</p>
<p>The Census Bureau will follow the requirements and guidelines for portfolio management for Census Bureau data sets in themes lead by other agencies.</p>	<p>Ongoing per NGDA Management Plan quarterly goals</p>	<p>Meet all NGDA Management Plan quarterly goals.</p>	<p>NGDA Dataset Managers and Theme Leads</p>
<p>The Department of Commerce Bureaus assigned to NGDA Theme Lead and Dataset Managers will complete the Dataset Maturity Assessment by the assigned deadline.</p>	<p>Complete Maturity Assessment by June 30, 2015 deadline <i>(note: the deadline was moved to Sept 30, 2015 by the FGDC)</i></p>	<p>Data Maturity Assessment scores</p>	
Agency	Activities Through FY15 end-Q4		

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Census Bureau	<ol style="list-style-type: none"> 1. The Census Bureau has metadata published on Data.gov/GeoPlatform.gov for all Census Bureau NGDAs in the Census Bureau-lead theme and the themes lead by other agencies. [<i>ongoing</i>] 2. Dataset maturity assessments (now called Lifecycle Maturity Assessment by the FGDC) have been completed and submitted for all Census Bureau NGDAs. [<i>completed September 30</i>]
NOAA	<ol style="list-style-type: none"> 1. NOAA has published metadata for all NOAA NGDAs in the themes. [<i>Completed in FY14, updates to keep metadata current are ongoing</i>] 2. NOAA has completed Lifecycle Maturity Assessments for all its NGDAs. [<i>Completed September 2015</i>] 3. NOAA is the lead or co-lead for four themes and is maintaining the web pages for these themes. [<i>ongoing</i>] 4. NOAA has met all NGDA Management Plan quarterly goals.

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Objective 2.2: Participate in the development of open data framework and standards that improve the quality, discovery, access, and analysis of geospatial data and standards

Bureaus Involved: All bureaus using or producing geospatial data

Actions	Milestone	Performance Indicators	Action Responsibility
<p>The Department of Commerce through the Census Bureau and NOAA will continue participate in the development and implementation of open, consensus driven standards as members of OGC, INCITS/L1, USGEO DMWG, FGDC, BEDI, and other activities.</p>	<p>Ongoing</p> <p>Initiate Big Earth Data Initiative (BEDI) work to improve discoverability, accessibility, and usability of high-value geospatial data (through FY2016 Q3).</p>	<p>Participate in meetings and activities as scheduled.</p> <p>Demonstrated increase in data standardization.</p>	<p>DOC Open Standards Representatives</p> <p>BEDI project manager and funding recipients.</p>
Agency	Activities Through FY15 late-Q4		
<p>Census Bureau</p>	<ol style="list-style-type: none"> 1. The Census Bureau is the DOC voting member of INCITS/L1 (body that represents US in ISO Technical Committee 211) and regularly attends the meetings. 2. As a member of INCITS/L1, the Census Bureau has assumed the responsibility to lead the development of ISO 19160-3 Quality Management for Addresses and initiated a new work item proposal. 3. The Census Bureau is a member of the OGC. 4. The Census Bureau is widely represented and very actively engaged in FGDC subcommittees and working groups. 		
<p>NOAA</p>	<ol style="list-style-type: none"> 1. NOAA has identified a number of datasets that have received BEDI funding. These datasets are currently being improved to become more discoverable, accessible and usable through BEDI funding. <i>[ongoing]</i> 2. NOAA staff members continue to be active in the OGC, INCITS/L1, USGEO, FGDC, and BEDI. <i>[ongoing]</i> 3. NOAA continues to be a leader in and provide ISO 191** metadata series support to other agencies through training and supporting software which has increased use of this standard. <i>[ongoing]</i> 4. NOAA actively requires and encourages the use of open data standards through a number of directives and policies. 		

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Objective 2.3: Identify opportunities for collaborative investments and potential duplications of effort			
Bureaus Involved: All bureaus using or producing geospatial data			
Actions	Milestone	Performance Indicators	Action Responsibility
The Census Bureau will continue to work with agencies such as the USGS, the FHWA, and the USPS to share data and expertise in order to avoid duplication of effort.	Ongoing	No duplicative activities	Census Bureau Federal Partnerships' Representatives
The Department of Commerce will search the Geospatial Platform Marketplace before acquiring data.	As needed.	The Marketplace will be searched when data and service needs arise.	Geospatial SMEs and CORs
The Department of Commerce will notify the geospatial community of opportunities to partner on acquisition of data and services through the Geospatial Platform Marketplace.	As needed.	Planned acquisitions of geospatial data and services will be posted on the Marketplace.	Geospatial SMEs and CORs
NOAA will continue its leadership role in the Interagency Working Group on Ocean and Coastal Mapping, an activity focused on greater collaboration across coastal and ocean mapping programs.	Ongoing		
Agency	Activities Through FY15 late-Q4		

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Census Bureau	<ol style="list-style-type: none"> 1. The Census Bureau and the USGS are in the second year of a 5 year Memorandum of Understanding (MOU) for the coordination and cooperation pertaining to the exchange and use of TIGER data in The National Map. In addition, the Census Bureau continued delivering roads for both the National Map Viewer and US Topo map product. The Census Bureau and FHWA have conducted a pilot project on the use of FHWA's ARNOLD prototype data as a source of data to update TIGER, working on a report detailing the results, and the Census Bureau is monitoring ARNOLD development. In addition, the Census Bureau has regularly scheduled meetings with USGS, FHWA, and the USPS to collaborate on data activities to avoid duplicative effort. 2. The Census Bureau regularly checks the Geospatial Platform Marketplace for the availability of data prior to contacting partners for data acquisitions for the Geographic Support System Initiative. <i>[ongoing]</i> 3. The Census Bureau advertised the planned acquisition of commercial address, imagery, and road data on the Marketplace [April 2015]
NOAA	<ol style="list-style-type: none"> 1. NOAA regularly checks the Geospatial Platform Marketplace for the availability of data prior to contacting partners for data acquisitions. <i>[ongoing]</i> 2. NOAA was one of the co-lead agencies within the Interagency Working Group for Ocean and Coastal Mapping and in that role developed the National Coastal Mapping Strategy. The strategy focuses on the development of a shared acquisition approach for coastal and near-shore elevation data.

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Expanding Commerce’s Role in the National Geospatial Community			
Strategic Goal 3 – Expand Commerce leadership with applicable sectors of the National geospatial community			
Anticipated Outcomes: Expand Commerce role in the national geospatial community			
Objective 3.1: Lead and participate in the development and coordination of national and international geospatial standards applicable to Commerce			
Bureaus Involved: Census Bureau			
Actions	Milestone	Performance Indicators	Action Responsibility

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<p>The Census Bureau will continue to participate in activities as a member of the major national and international standards bodies such as: the International Committee for Information Technology Standards (INCITS) Geographic Information (L1) which is the U.S. technical advisory group (TAG) for the International Standards Organization (ISO) Technical Committee for Geographic information/Geomatics (TC211), the Federal Geographic Data Committee (FGDC) Standards Working Group, the Address Standard Working Group, and the FGDC Metadata Working group.</p>	<p>Ongoing</p>	<p>Attend required meetings as scheduled</p>	<p>Census Bureau Standards Representatives</p>
<p>Agency</p>	<p>Activities Through FY15 late- Q4</p>		
<p>Census Bureau</p>	<ol style="list-style-type: none"> 1. The Census Bureau is currently conducting a maintenance review of the FGDC Address Standard. Additionally, the Census Bureau continues to regularly attend the meetings of all the major national and international standards bodies listed. 2. As a member of INCITS/L1, the Census Bureau has assumed the responsibility to lead the development of ISO 19160-3 Quality Management for Addresses and initiated a new work item proposal. 		

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Objective 3.2: Lead and participate in FGDC coordination activities including the Executive and Steering Committees, Coordination Group, and all applicable Subcommittees and Working Groups

Bureaus Involved: Census Bureau, NOAA

Actions	Milestone	Performance Indicators	Action Responsibility
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<p>In the role of the Senior Agency Official for Geospatial Information (SAOGI) for the DOC, the Census Bureau will endorse policies that support DOC's geospatial strategic goals and objectives</p>	<p>Ongoing</p>	<p>Regular attendance of meetings</p>	<p>DOC SAOGI</p>
<p>The Department, primarily through the Census Bureau and NOAA, will continue to be an active participant in the Executive Committee, Steering Committee, Coordination Group, as well as participate in, and in some cases lead, the appropriate subcommittees and working groups.</p>	<p>Ongoing</p>	<p>Regular attendance of meetings</p>	<p>DOC FGDC representatives</p>
<p>Agency</p>	<p>Activities Through FY15 late- Q4</p>		
<p>Census Bureau</p>	<ol style="list-style-type: none"> 1. The Census Bureau is an active member of, and regularly attends, meetings of the Executive Committee and the Steering Committee as both the SAOGI and as the executive geospatial representative of the Census Bureau. <i>[ongoing]</i> 2. The Census Bureau is widely represented and very actively engaged in many FGDC subcommittees and working groups and regularly attends the meetings of these groups. <i>[ongoing]</i> 		
<p>NOAA</p>	<ol style="list-style-type: none"> 1. NOAA is an active member of, and regularly attends and participates actively in meetings of the Executive Committee and the Steering Committee. <i>[ongoing]</i> 2. NOAA is widely represented and very actively engaged in many FGDC subcommittees and working groups and regularly attends the meetings of these groups. <i>[ongoing]</i> 		

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Objective 3.3: Update suite of geodetic control standards, specifications, and guidelines tied to the National Spatial Reference System Bureaus Involved: NOAA			
Actions	Milestone	Performance Indicators	Action Responsibility
NOAA is updating a suite of geodetic control standards, specifications, and guidelines documents. The documents provide technical information on a range of topics related to survey control points or other related data sets which are accurately tied to the National Spatial Reference System (the official, common federal system for establishing coordinates for geospatial data that are consistent nationwide). Geodetic control examples include: passive geodetic control marks, active geodetic observing systems, data from Global Navigation Satellite Systems (e.g., GPS), gravity measurements, and models of the earth's gravity field (geoid).	Annual milestones		NOAA National Geodetic Survey Office
Agency	Activities Through FY15 late- Q4		
NOAA	<ol style="list-style-type: none"> 1. NOAA, in concert with the FGDC, is building a list of agency contacts for coordination on the new datum initiative for 2022. <i>[ongoing]</i> 2. NOAA leads the Federal Geodetic Control Subcommittee which has a number of Work Groups that continue to focus on geodetic control standards and specifications. <i>[ongoing]</i> 3. NOAA continues to update the data and standards that support the National Spatial Reference System. <i>[ongoing]</i> 4. NOAA leads the NGDA Geodetic Control theme and coordinates the Continuously Operating Reference Stations, geoid models, passive geodetic control marks and airborne gravity as components of this theme. <i>[ongoing]</i> 		

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<p>Objective 3.4: Develop an annually updated National Ocean and Coastal Mapping Plan that defines priority mapping needs and gaps.</p> <p>Bureaus Involved: NOAA</p>			
Actions	Milestone	Performance Indicators	Action Responsibility
NOAA through its Integrated Ocean and Coastal Mapping Program, and in partnership with the Interagency Working Group on Ocean and Coastal Mapping, will update its Ocean and Coastal Mapping plan annually.	Annually, Q4.		NOAA's Integrated Ocean and Coastal Mapping Program.
Agency	Activities Through FY15 late- Q4		
NOAA	<ol style="list-style-type: none"> 1. NOAA is one of the lead agencies of the Interagency Working Group on Ocean and Coastal Mapping (IWG-OCM) and was tasked with developing a coastal mapping plan. This first iteration of a National Coastal Mapping Strategy (NCMS) was developed in FY15 to focus on that portion of the U.S. coastal zone that can be successfully mapped by a mix of lidar techniques for accurate elevation data. Subsequent iterations will address other important acquisition technologies. The report is currently in review. 		

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Objective 3.5: Explore opportunities for greater collaboration across Commerce bureaus on geospatial activities			
Bureaus Involved: All bureaus using or producing geospatial data			
Actions	Milestone	Performance Indicators	Action Responsibility
The Census Bureau and NOAA will co-lead a new DOC mapping group.	Ongoing	Establish schedule for recurring meetings	DOC Mapping Group Representatives
Agency	Activities Through FY15 late- Q4		
Census Bureau	1. The Census Bureau and NOAA have initiated the formation of the DOC mapping group with DOC management and DOC agencies (<i>ongoing</i>).		
NOAA	1. NOAA coordinates with the Census Bureau on a number of geospatial issues including A-16 and FGDC activities. [<i>ongoing</i>]		

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Objective 3.6: Identify and pursue opportunities for expanded interactions with all government sectors, academia, private sector, and NGOs

Bureaus Involved: All bureaus using or producing geospatial data

Actions	Milestone	Performance Indicators	Action Responsibility
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<p>The Census Bureau will continue to participate as a member of many government, academia, and private industry organizations to seek and leverage opportunities to collaborate as well as implement best practices.</p> <p>NOAA will continue its outreach and education activities for users of NOAA’s geospatial data and services.</p>	<p>Ongoing</p>	<p>Maintain existing partnerships and add new partnerships.</p>	<p>Census Bureau Outreach Representatives</p>
Agency	Activities Through FY15 late-Q4		
<p>Census Bureau</p>	<ol style="list-style-type: none"> 1. The Census Bureau has begun work on the Boundary Quality Assessment and Reconciliation Project (BQARP). Through the BQARP, the Census Bureau has partnered with State governments to collect locally sourced legal and administrative boundaries along with parcel and public land survey system (PLSS) boundaries. The locally sourced data is being used to improve the spatial accuracy of the boundaries within the MAF/TIGER System. Additionally, the Census Bureau has added new partnerships and agreements with state and county governments through the Geographic Support System Initiative (GSS-I) Partnership program and the Boundary and Annexation Survey (BAS) (ongoing). 		
<p>NOAA</p>	<ol style="list-style-type: none"> 1. NOAA is extremely active with its external user communities in defining requirements for NOAA data and services and gathering feedback on products made available to these communities. A short list of examples includes: <ol style="list-style-type: none"> a. National States Geographic Information Council (NSGIC) via the Digital Coast Partnership b. International Hydrographic Offices in multiple countries through the nautical charting programs of the Office of Coast Survey c. World Meteorological Organization (WMO) through the National Weather Service’s GIS initiatives such as the Integrated Dissemination Program and nowCOAST application d. Geodetic Control and Surveyors through the National Geodetic Survey, especially as they begin the process of developing new geodetic datums 		

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