

# Theme Implementation Plan for Governmental Units, and Administrative and Statistical Boundaries Theme

Activity Report for Fiscal Year 2019

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**U.S. Census Bureau**

**Federal Geographic Data Committee (FGDC)**

October 31, 2019



# Governmental Units, and Administrative and Statistical Boundaries Theme Implementation Plan

## FY19 Activity Report

### Overview

As part of meeting the requirements under [OMB Circular A-16 Supplemental Guidance](#) and [OMB Circular A-16 Appendix E - NGDA Data Themes, Definitions, and Lead Agencies](#) for NGDA Portfolio Management and NGDA Theme Management, NGDA Themes Leads for a Theme, in coordination with associated NGDA Dataset Managers, have developed Theme Strategic Plans and corresponding implementation plans for each Theme in the NGDA Portfolio. This report provides information on implementing the goals, objectives, and actions outlined in the Theme’s Strategic Plan (link below). The report includes information on Theme Personnel (Table 1), National Geospatial Data Asset (NGDA) datasets associated with the Theme (Table 2), and the human and financial resources needed to manage the Theme (Table 3). Table 4 provides a status update on progress made in in the current reporting period toward meeting Theme Strategic Plan goals and objectives. Table 5 provides details on the Theme Implementation Plan.

### Theme Strategic Plan

[https://communities.geoplatform.gov/ngda-govunits/wp-content/uploads/2018/04/Gov\\_Units\\_Theme\\_Strategic\\_Plan\\_20161001.pdf](https://communities.geoplatform.gov/ngda-govunits/wp-content/uploads/2018/04/Gov_Units_Theme_Strategic_Plan_20161001.pdf)

### Theme Personnel

Theme personnel play a vital role in the operation and maintenance of a Theme. They are “individuals who provide interdepartmental leadership and coordination at the NGDA Theme level. They work with component NGDA Dataset Managers to develop standards and provide guidance. The NGDA Theme Lead, or designee, chairs the NGDA Theme’s Thematic Committee and manages the annual process of providing NGDA Dataset collaboration and funding recommendations to the FGDC Steering Committee for those NGDA Datasets within their NGDA Theme. Additionally, the NGDA Theme Lead reports to the Executive NGDA Theme Champion and the FGDC Coordination Group on the NGDA Theme’s activities and investments (both current and planned).” Table 1 provides a summary of current Theme Personnel followed by Table 2 that lists the NGDA Datasets that comprise the Theme.

Theme Personnel	
<b>Theme Lead:</b>	Dierdre Bevington-Attardi
<b>Theme Lead Agency:</b>	U.S. Census Bureau
<b>Executive Theme Champion:</b>	Deirdre Bishop
<b>Executive Champion Agency:</b>	U.S. Census Bureau

Table 1. Personnel Involved in Theme Management

<b>Governmental Units, and Administrative and Statistical Boundaries Theme <a href="#">NGDA Datasets</a></b>	<b>NGDA Agency</b>
116th Congressional District	Department of Commerce/ U.S. Census Bureau
2010 Census 5-digit ZIP Code Tabulation Area <sup>1</sup>	Department of Commerce/ U.S. Census Bureau
2010 Census Population & Housing Unit Counts	Department of Commerce/ U.S. Census Bureau
2010 Census Public Use Microdata Area	Department of Commerce/ U.S. Census Bureau
2010 Census Urban Area	Department of Commerce/ U.S. Census Bureau
2010 Census Urban Growth Area	Department of Commerce/ U.S. Census Bureau
2010 Census Voting District	Department of Commerce/ U.S. Census Bureau
Alaska Native Regional Corporation (ANRC)	Department of Commerce/ U.S. Census Bureau
American Indian Tribal Subdivision	Department of Commerce/ U.S. Census Bureau
American Indian/Alaska Native/Native Hawaiian (AIANNH) Areas	Department of Commerce/ U.S. Census Bureau
BLM National Administrative Unit Boundary Polygons and Office Points <sup>2</sup>	Department of Interior/ Bureau of Land Management (BLM)
Block Group	Department of Commerce/ U.S. Census Bureau
Census Block	Department of Commerce/ U.S. Census Bureau
Census Bureau Regional Office Boundaries	Department of Commerce/ U.S. Census Bureau
Census Tract	Department of Commerce/ U.S. Census Bureau
Combined New England City and Town Area	Department of Commerce/ U.S. Census Bureau
Combined Statistical Area	Department of Commerce/ U.S. Census Bureau
Consolidated City	Department of Commerce/ U.S. Census Bureau
County and Equivalent	Department of Commerce/ U.S. Census Bureau
County Subdivision	Department of Commerce/ U.S. Census Bureau
Elementary School Districts	Department of Commerce/ U.S. Census Bureau
EPA Facility Locations and Regional Boundaries	U.S. Environmental Protection Agency (EPA)
Estate (U.S. Virgin Islands)	Department of Commerce/ U.S. Census Bureau
HUD Entitlement Grantee Jurisdiction	Department of Housing and Urban Development (HUD)
International Boundary United States Mexico Minute 315	Department of State/ International Boundary and Water (IBWC)
Metropolitan Division	Department of Commerce/ U.S. Census Bureau
Metropolitan Statistical Area/Micropolitan Statistical Area	Department of Commerce/ U.S. Census Bureau

<sup>1</sup> All dataset names preceded with the “2010” designation for current year or vintage refers to datasets and corresponding results of the 2010 decennial census exclusively except for the “Urban Growth Area”.

<sup>2</sup> BLM Administrative Unit Boundary Polygons and BLM Administrative Unit Office Points were merged into one NGDA effective FY18-Q3.

National Weather Service County Warning Area Boundaries <sup>3</sup>	Department of Commerce/ National Oceanic and Atmospheric Administration (NOAA)
NECTA Division	Department of Commerce/ U.S. Census Bureau
New England City and Town Area Place <sup>4</sup>	Department of Commerce/ U.S. Census Bureau
Secondary School District	Department of Commerce/ U.S. Census Bureau
State and Equivalent	Department of Commerce/ U.S. Census Bureau
State Legislative District (SLD) Lower Chamber	Department of Commerce/ U.S. Census Bureau
State Legislative District (SLD) Upper Chamber	Department of Commerce/ U.S. Census Bureau
Subbarrio (Subminor Civil Division)	Department of Commerce/ U.S. Census Bureau
Tribal Block Group	Department of Commerce/ U.S. Census Bureau
Tribal Census Tract	Department of Commerce/ U.S. Census Bureau
Unified School Districts	Department of Commerce/ U.S. Census Bureau
United States Canadian Boundary	International Boundary Commission (IBC)

Table 2. NGDA Datasets within the Theme.

## Human and Financial Resources Needed for Theme Management

The following table provides an estimate of resources needed for managing this Theme. It includes different activities, the roles that support them, as well as an estimated decimal Full Time Equivalent (FTE) and FTE grade. This estimate does not include the resources required for the agency to develop and maintain the NGDA Dataset(s) that make up the Theme to meet the agency's core mission requirements.

### Reporting Period for Human and Financial Resources: October 2018 – September 2019

Description of Theme Management Activities	Role	FTE <sup>5</sup>	FTE Grade
A-16 NGDA Theme management (e.g., attend meetings, review NGDA documents, develop Theme Strategic & Implementation Plans, etc.)	Theme Lead	.04	GS-13
A-16 NGDA Theme management	Theme Lead Support Staff	.02	GS-14
		.04	GS-12

Table 3. Human and Financial Resources Needed for Theme Management.

<sup>3</sup> NGDA removed effective June 30, 2017.

<sup>4</sup> "Place" refers to Incorporated Place or Census Designated Place (CDP).

<sup>5</sup> A full-time Federal employee was available a maximum of 2,000 hours during the inclusive period of October 1, 2018 – September 30, 2019 assuming a Monday-Friday schedule with 8-hour workdays and not counting Federal Holidays. The FTE was determined by taking the actual number of hours worked in support of Theme Management divided by 2,000 hours, rounded to the nearest 0.01.

## Progress against Goals and Objectives

The following table shows the progress status made toward achieving the Theme’s Strategic Plan goals and objectives since the last reporting period. Status categories include 'Not Started' for those activities that have not gotten underway in the reporting period; 'In Progress' for those activities underway, which will continue into the next year; 'Complete' for the activities finished, or 'Recurring (completed for the current reporting period).

Goals and Objectives undertaken during FY19	Status
Goal 1: Ensure the effective development and maintenance of the Governmental Units, and Administrative and Statistical Boundaries datasets.	
Objective 1.1: Develop, maintain, and distribute authoritative governmental units (legal) datasets.	Recurring (completed for FY19)
Objective 1.2: Develop, maintain, and distribute authoritative statistical boundary datasets.	In Progress
Objective 1.3: Develop, maintain, and distribute authoritative administrative boundary datasets.	Recurring (completed for FY19)
Objective 1.4: Maintain topological relationships and quality standards for all geographic units and their associated NGDA Datasets in the Governmental Units Theme.	In Progress
Objective 1.5: Complete annual Lifecycle Maturity Assessments (LMAs).	Recurring (no LMA required in FY19)
Goal 2: Facilitate the sharing and distribution of Governmental Units, and Administrative and Statistical Boundaries Theme datasets.	
Objective 2.1: Publish metadata on Data.gov and the Geospatial Platform (GeoPlatform) to facilitate discovery and use of theme datasets.	Recurring (completed for FY19)
Objective 2.2: Provide reliable Web Map Services (WMS) with quality metadata to improve the GeoPlatform experience.	Recurring (completed for FY19)
Goal 3: Coordinate the Governmental Units, and Administrative and Statistical Boundaries Theme among stakeholders.	
Objective 3.1: National Boundary Group (NBG), formally designated as an FGDC working group in 2014, leads the development of nationally consistent boundaries that are integrated using the same geographic base. Federal boundary sources will be consistent, accurate, and integrated.	In Progress
Objective 3.2: The Tribal Boundaries Subgroup, formally designated as a NBG working group in 2015, identifies the data and communication needs for agencies and governments using tribal boundary data. These agencies include the Tribal governments, Department of Interior (DOI), the Census Bureau, Federal Emergency Management Agency (FEMA), and Forest Service (USFS).	In Progress
Objective 3.3: The Federal Lands Working Subgroup (FLWG) develops a data standard and the organizational strategies for the aggregation of federally owned lands in a spatial database.	In Progress

Goals and Objectives undertaken during FY19	Status
Objective 3.4: Continue collaboration between Census Bureau, the International Boundary Commission (IBC) and the International Boundary and Water Commission (IBWC) to complete the update of all international boundaries in Census Bureau’s Digital Geographic Database of the United States.	In Progress
Objective 3.5: The Governmental Units, and Administrative and Statistical Boundaries Theme community leverages the GeoPlatform to increase community membership and facilitate dataset management and communication across the theme.	In Progress

**Table 4. Theme Implementation Plan Progress Status.**

Note: The status of “Recurring” applies to the status of goals and objectives for a majority (over 80%) of the datasets reported in Objectives 1.1, 1.3, 2.1, and 2.2.

**Strategic Goal 1** – Ensure the effective development and maintenance of the Governmental Units, and Administrative and Statistical Boundaries datasets.

**Objective 1.1:** Develop, maintain, and distribute authoritative governmental units (legal) datasets.

**Anticipated Outcomes:** Legal entities originate from legal actions, treaties, statutes, ordinances, resolutions, and court decisions. Authoritative Governmental Units Theme datasets will contain up-to-date information about the boundaries and names of all governmental units in the United States. The authoritative boundary information provides the framework for the tabulation and presentation of collected data during the decennial and economic censuses, and annual estimates and surveys such as the Population Estimates Program (PEP) and the American Community Survey (ACS).

**Agencies, Bureaus, and Offices Involved:** All dataset managers and program managers of legal boundary datasets, the Census Bureau’s Tribal Program Manager, the Census Bureau’s Geographic Customer Service Branch, the Census Bureau’s Geographic Standards, Criteria, and Quality Branch, Census Bureau’s Geography Division Chief, and the Boundary and Annexation Survey (BAS) Program Manager.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.1.1.</b> Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.</p>	<p>Maintained and updated legal boundary datasets not covered elsewhere in this plan.</p>	<p>Number of legal boundary datasets checked for currency, accuracy of attributes, and updated.</p>	<p>All dataset and program managers of these specified legal boundary datasets</p>	<p>Q4 each year</p>
<b>Agency and/or Stakeholder</b>		<b>Activities Through FY19-Q4</b>		
<p>Theme Lead</p>	<p><b>1.1.1.</b> See dataset and program managers’ reports below. Dataset managers for international boundary data reported technical difficulties during metadata harvesting to Data.gov in FY19, therefore the most recent updates for the International Boundary and Water Commission (IBWC) and International Boundary Commission (IBC) datasets are not discoverable through the metadata on the GeoPlatform.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.1.1. (cont.)</b> Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.</p>	<p>BAS updates received are reflected in almost all of the Census Bureau’s data tabulation and other agency programs.</p> <p>Posting of TIGER/Line Shapefiles. Delivery of dataset to internal Census Bureau tabulation processing.</p>	<p>Number of all required updates completed. Accuracy of the update indicated by the number of subsequent corrections required.</p> <p>Creation of the spatial dataset (shapefiles) with the BAS updates.</p>	<p>BAS Program Manager</p> <p>Decennial Information Technology Division/BAS Program Manager/Geographic Customer Service Branch</p>	<p>October of each year for legal boundaries</p> <p>August of each year for non-legal boundaries</p> <p>August of each year</p>
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
BAS Program Manager	<p><b>1.1.1.</b> As of September 30, 2019, the Census Bureau has processed updates from 6,322 governments, via both digital BAS submissions (both regular digital submissions and Geographic Update Partnership Software (GUPS) submissions) and paper BAS submissions for the 2019 BAS.</p>			
Decennial Information Technology Division/BAS Program Manager/Geographic Customer Service Branch	<p><b>1.1.1.</b> All 2019 TIGER/Line Shapefiles posted to Census Bureau’s public website. An additional 2019 edition of the datasets was delivered for internal Census Bureau tabulation processing.</p>			



Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.1.1. (cont.)</b> Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.</p>	<p>Identify survey information and data requirements for each boundary segment.</p> <ul style="list-style-type: none"> <li>• Colorado River<sup>6</sup></li> <li>• Rio Grande River<sup>7</sup></li> <li>• Land boundary between the Rio Grande River and the Pacific Ocean</li> <li>• International Maritime Boundary in the Gulf of Mexico<sup>8</sup></li> <li>• International Maritime Boundary in the Pacific Ocean<sup>9</sup></li> </ul>	<p>Percentage of survey information and data requirements identified.</p>	<p>International Boundary and Water Commission (IBWC)</p>	<p>As frequently as necessary (if justifiable), but at intervals less than ten years</p>
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>IBWC</p>	<p><b>1.1.1.</b> This milestone is complete. The current international boundaries between U.S. and Mexico are accessible from the IBWC Website (<a href="https://www.ibwc.gov/GIS_Maps/GIS_Program.html">https://www.ibwc.gov/GIS_Maps/GIS_Program.html</a>) and TigerWeb (<a href="https://tigerweb.geo.census.gov/tigerwebmain/TIGERweb_main.html">https://tigerweb.geo.census.gov/tigerwebmain/TIGERweb_main.html</a>).</p>			

<sup>6</sup> Colorado River from the centerline of the Colorado River, at the U.S. State of California, U.S. State of Arizona, Mexico Baja California State, and the Colorado River intersection, wherever it may be located, to the centerline of the Colorado River at the U.S. State of Arizona, Mexico Baja California State, Mexico Sonora State, and the Colorado River intersection, wherever it may be located.

<sup>7</sup> Rio Grande River from the centerline of the Rio Grande River at the U.S. State of New Mexico, U.S. State of Texas, Mexico Chihuahua State, and the Rio Grande River intersection, wherever it may be located, to the centerline of the mouth of the Rio Grande River, U.S. State of Texas, Mexico Tamaulipas State, and the Gulf of Mexico intersection, wherever it may be located.

<sup>8</sup> International Maritime Boundary in the Gulf of Mexico from the centerline of the mouth of the Rio Grande River, U.S. State of Texas, Mexico Tamaulipas State, and the Gulf of Mexico intersection, wherever it may be located to the Fixed Point/Punto Fijo, located at North 25° 57' 22.18" West 97° 08' 19.76", extending 12 nautical miles to a point located at North 25° 58' 30.57" West 96° 55' 27.37".

<sup>9</sup> United States/Mexico International Maritime Boundary in the Pacific Ocean from a Fixed Point/Punto Fijo #1 located at North 32° 32' 03.19" West 117° 07' 25.70" to a Fixed Point/Punto Fijo #2 located at North 32° 31' 38.79" West 117° 14' 17.49" to a Fixed Point/Punto Fijo #3 located at North 32° 33' 12.04" West 117° 15' 46.76" to a Fixed Point/Punto Fijo #4 located at North 32° 34' 20.93" West 117° 21' 58.39" to a Fixed Point/Punto Fijo #5 located at North 32° 35' 22.11" West 117° 27' 49.42".









Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.1.1. (cont.)</b> Unless otherwise noted in other actions listed below, maintain and update all legal boundary data as needed according to program schedules. Program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.	Publish updated shapefile of the United States/Mexico International Boundary followed with an update of the metadata data on Data.gov/Geoplatform.gov.	Update posted.	IBWC	As needed
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
IBWC	<b>1.1.1. (cont.)</b> see above			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.1.2.</b> Request that tribal, state, county, and local governments increase their levels of participation in the review and update of their legal boundaries annually through the Census Bureau’s Boundary and Annexation Survey (BAS). Increase the number of states with formal cooperative agreements to provide boundary and annexation information.</p>	Annual response information is mailed/emailed to participants.	Percentage of participants contacted.	BAS Program Manager	Q2 of each year
	Non-Response follow-up.	Percentage of BAS responses received based on the overall number of BAS respondents contacted and invited to participate in the BAS.	BAS Program Manager	Q3 of each year
	State Data Center non-response follow-up.	Percentage of BAS responses received based on the overall number of BAS respondents requiring follow-up.	BAS Program Manager	Q3 of each year
	Year-to-year increase in the number of states with formal cooperative agreements.	Number of cooperative agreements completed.	BAS Program Manager	Q4 of each year
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
BAS Program Manager	<p><b>1.1.2.</b> As of September 30, 2019, the 2019 BAS response rate for eligible legal governments is 87.381% (34,209 out of 39,148 governments) exceeding the 2019 BAS requirement of an 85% response rate. State Data Centers and the National Processing Center assisted with BAS non-response follow up in FY19.</p> <p>The Census Bureau has engaged in conversations with Iowa, Vermont, and Oklahoma, to enter into BAS state agreements beginning with the 2019 BAS. Census Bureau also continues to increase consolidated BAS participation where counties respond for the local governments within their jurisdiction.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.1.3.</b> Secure sufficient funding to conduct the annual BAS.</p> <p><b>1.1.4.</b> Give the highest elected officials a final opportunity to review their official legal boundaries before the 2020 Census tabulation through the Boundary Validation Program (BVP) beginning in the FY20-Q2.</p>	<p>Sufficient annual funding reflected in appropriation.</p> <p>All Highest Elected Officials notified.</p> <p>Responses received from highest elected officials or their designee.</p>	<p>Sufficient annual funding reflected in budget documentation.</p> <p>Number of notifications sent.</p> <p>Number of responses received.</p>	<p>Census Bureau’s Geography Division Chief in coordination with BAS Program Manager</p> <p>BAS Program Manager</p> <p>BAS Program Manager</p>	<p>Q1 of each year</p> <p>FY20-Q4</p> <p>FY20-Q4</p>
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
Census Bureau’s Geography Division Chief in coordination with BAS Program Manager	<b>1.1.3.</b> The BAS budget for 2019 and 2020 is jointly funded by GSS and Census 2020. The yearly budget for each year is about \$17.5 million. This does not include the 2020 Boundary Validation Program.			
BAS Program Manager	<b>1.1.4.</b> No activities scheduled until FY20.			



Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.1.5.</b> The Census Bureau’s Tribal BAS will collect boundary data via a government-to-government policy, verify proposed changes with the Bureau of Indian Affairs (BIA), incorporate changes as appropriate, and increase the accessibility of the data on federal websites and data repositories.</p>	<p>Collect, verify (if needed), and incorporate all boundary data changes.</p>	<p>Number of changes processed.</p>	<p>BAS Program Manager</p>	<p>Q4 of each year</p>
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>BAS Program Manager</p>	<p><b>1.1.5.</b> The 2019 BAS annual response began during the week of January 21, 2019 (delayed three weeks due to the lapse in government funding). Staff assisted Tribal BAS contacts with questions and conducted non-response follow up to ensure a high participation rate and boundary quality.</p> <p>As of September 30, 2019, 49.584% (179 out of 361) of federally recognized tribes have responded to the 2019 BAS. Staff at the Census Bureau’s National Processing Center have completed the Tribal BAS submission reviews.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.1.6.</b> The BIA will implement the Area Representation program to:</p> <p>1) portray federally recognized American Indian Land Area Representations (LARs) that are linked to official land, title, and cadastral records in all land status mapping products;</p> <p>2) assign “certainty” ranking to boundary segments and investigate/resolve discrepancies based on legal determinations;</p> <p>3) publish the single authoritative source for American Indian LARs for use by tribes and other agencies (Census Bureau, USDA, EPA, FEMA, state, county, local, etc.).</p>	Publish the single authoritative source.	Number of changes processed prior to publishing deadline.	Census Bureau’s Tribal Program Manager	FY18-Q3
	BIA provides spatial file updates to the Census Bureau.	Number of spatial files delivered to the Census Bureau.	Census Bureau’s Tribal Program Manager	FY18-Q3
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
Census Bureau’s Tribal Program Manager	<p><b>1.1.6.</b> 1) This action is completed. BIA provided Census Bureau with a file of Land Area Representations (LARs) to portray boundaries linked to official land, title, and cadastral records on May 1, 2018 (FY18-Q3). In addition, two deliveries of LARs were made in September 2018 and a third delivery on October 2, 2018, to complete all deliveries of LARs to the Census Bureau.</p> <p>2) This action is ongoing. In FY19, Census Bureau reviewed all the LARs data and provided feedback for 49 LARs. BIA published the LARs data on January 2019. Following this publication, Census Bureau’s ongoing participation in Tribal consultations to reconcile BIA LARS data with Census Bureau tribal boundaries data is underway.</p> <p>3) This action will be completed following the 2020 Decennial Census. Census Bureau will continue to reconcile boundaries through Tribal consultations and incorporate BIA boundary changes to the Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) System.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.1.7.</b> International Boundary Commission (IBC) will continue to implement the database to maintain the 5,625-mile long international boundary between the United States and Canada using control networks, land monuments, and reference monuments.</p>	<p>Updates published as needed (see Action 3.4.2).</p>	<p>Number of updates published</p>	<p>IBC</p>	<p>FY21-Q4</p>
<p><b>1.1.8.</b> Implement International Boundary and Water Commission (IBWC) goals to resurvey and repair land boundary monuments (last surveyed in 2007) on the international border between the United States and Mexico.</p>	<p>Resurvey and repair land boundary monuments.</p>	<p>Number of boundary monuments completed.</p>	<p>IBWC</p>	<p>FY17-Q4</p>
<p><b>1.1.9.</b> Implement IBWC goals to review recently surveyed boundary monuments 120, 121, 122, 122C, and 123 on the international border between the United States and Mexico.</p>	<p>Complete review of boundary monuments 120, 121, 122, 122C, and 123.</p>	<p>Number of boundary monuments completed.</p>	<p>IBWC</p>	<p>FY17-Q4</p>
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>IBC</p>	<p><b>1.1.7.</b> This action is completed.</p>			
<p>IBWC</p>	<p><b>1.1.8.</b> The international boundary review of the Mexico and U.S. boundary are on hold at this time. The current international boundaries between U.S. and Mexico are accessible from the IBWC Website (<a href="https://www.ibwc.gov/GIS_Maps/GIS_Program.html">https://www.ibwc.gov/GIS_Maps/GIS_Program.html</a>) and TigerWeb (<a href="https://tigerweb.geo.census.gov/tigerwebmain/TIGERweb_main.html">https://tigerweb.geo.census.gov/tigerwebmain/TIGERweb_main.html</a>).</p>			
<p>IBWC</p>	<p><b>1.1.9.</b> See action 1.1.8.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.1.10.</b> Implement IBWC goals to compile a joint report on the repair of boundary monuments 142A &amp; 145 on the international border between the United States and Mexico.</p>	<p>Draft and Publish report.</p>	<p>Percentage of report completed.</p>	<p>IBWC</p>	<p>FY17-Q4</p>
<p><b>1.1.11.</b> Implement IBWC goals to complete the restoration of recently rehabbed boundary monument 207 on the international border between the United States and Mexico.</p>	<p>Restore boundary monument.</p>	<p>Action Completed.</p>	<p>IBWC</p>	<p>Not applicable</p>
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>IBWC</p>	<p><b>1.1.10.</b> As of September 30, 2019, the report is 50% complete (draft completed). Completion date of IBWC's published report is dependent upon funding.</p>			
<p>IBWC</p>	<p><b>1.1.11.</b> Action Completed (FY17-Q2).</p>			

**Objective 1.2:** Develop, maintain, and distribute authoritative statistical boundary datasets.  
**Anticipated Outcomes:** Accomplishment of the objective will produce meaningful, relevant census tracts, block groups, Census Designated Places (CDPs) and Census County Divisions (CCDs), tribal statistical areas, tribal census tracts, and tribal block groups to obtain meaningful, relevant small area and place-level statistical data. The updated boundaries for census tracts, block groups, CDPs, CCDs, and the various tribal statistical areas provide the framework for the tabulation and presentation of data from the 2020 Census, and the ACS. Local, state, and federal agencies, private sector organizations, academic institutions, and the public use data tabulations for planning and funding purposes.<sup>10</sup>  
**Agencies, Bureaus, and Offices Involved:** Statistical Boundary Dataset and Program Managers

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.2.1.</b> Unless otherwise noted in other actions listed below, maintain and update all statistical boundary data as needed according to program schedules. The program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.</p>	<p>Maintain and update statistical boundary datasets not covered elsewhere in this plan.</p>	<p>Number of maintained and updated statistical boundary datasets.</p>	<p>All dataset and program managers of these specified statistical boundary datasets</p>	<p>Q4 each year</p>
<b>Agency and/or Stakeholder</b>		<b>Activities Through FY19-Q4</b>		
Theme Lead	<b>1.2.1.</b> See dataset and program managers’ reports below.			

<sup>10</sup> “2010 Participant Statistical Areas Program Participant Information,” U.S. Census Bureau, June 25, 2008, [http://www2.census.gov/geo/pdfs/partnerships/psap2010\\_part\\_info.pdf](http://www2.census.gov/geo/pdfs/partnerships/psap2010_part_info.pdf).

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.2.2.</b> Beginning Spring 2018, initiate the Participant Statistical Areas Program (PSAP) to help tribal, regional, and local governments fill in statistical data gaps by defining statistical boundaries, including tribal statistical boundaries, in communities where no legal boundaries exist.<sup>11</sup></p>	<p>Mail out PSAP materials to participants.</p>	<p>Support materials delivery to participants completed.</p>	<p>PSAP Program Manager</p>	<p>FY19-Q2</p>
	<p>All received updates processed.</p>	<p>Percentage of updates submitted by participants processed to include “no change” responses.</p>	<p>PSAP Program Manager</p>	<p>FY20-Q4</p>
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>PSAP Program Manager</p>	<p><b>1.2.2.</b> The 2010 Census PSAP participants were contacted to participate in 2020 Census PSAP. In FY18-Q4, Census Bureau sent invitation materials to the participants who agreed to participate in 2020.</p>			

<sup>11</sup> “Accurate Geography Is the Starting Point for Accurate Data,” Version 3, U.S. Census Bureau, January 24, 2017.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.2.3.</b> Beginning in early 2021, initiate the ZIP Code Tabulation Area (ZCTA) Program to build a generalized geographic area representation of a five-digit U.S. Postal Service ZIP Code to tabulate and disseminate 2020 Census data and minimize data disclosure concerns.<sup>12</sup></p> <p><b>1.2.4.</b> Beginning in early 2021, review criteria and standards for Urban Areas and delineate new boundaries with 2020 Census results.<sup>13</sup></p>	<p>Develop project plan.</p> <p>Proposed criteria published.</p> <p>Final criteria published.</p> <p>Complete and publish urban area delineations.</p>	<p>Percentage of project plan developed.</p> <p>Federal Register notice published.</p> <p>Federal Register notice published.</p> <p>Percentage of urban area dataset completed.</p>	<p>ZCTA Program Manager</p> <p>Urban Area Dataset Program Manager</p> <p>Urban Area Dataset Program Manager</p> <p>Urban Area Dataset Program Manager</p>	<p>FY21-Q3</p> <p>FY21-Q1</p> <p>FY22-Q1</p> <p>FY22-Q2</p>
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
ZCTA Program Manager	<b>1.2.3.</b> No activities scheduled until FY21.			
Urban Area Dataset Program Manager	<b>1.2.4.</b> No activities scheduled until FY21.			

<sup>12</sup> “2020 Census Operational Plan: A New Design for the 21st Century, Version 1.1,” U.S. Census Bureau, November 2015, <http://www2.census.gov/programs-surveys/decennial/2020/program-management/planning-docs/2020-oper-plan.pdf>.

<sup>13</sup> Ibid.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.2.5.</b> Beginning in late 2021, review criteria and standards for Public-Use Microdata Areas (PUMAs) and coordinate recommended changes with state-partners and other stakeholders.<sup>14</sup></p> <p><b>1.2.6.</b> Initiate and conduct Phase 1 of the 2020 Census Redistricting Data Program (RDP) in late 2015 to collect Block Boundary Suggestion Project (BBSP) for the 2020 Census tabulation block inventory. Complete updates of these suggestions in the Master Address File/TIGER database (MTDB) in 2017.<sup>15</sup></p>	Proposed criteria published.	Publishing format to be determined.	PUMA Program Manager	FY21-Q4
	Final criteria published.	Publishing format to be determined.	PUMA Program Manager	FY22-Q1
	Complete all PUMA boundary delineations.	Number of state-partners and other stakeholders that have coordinated updates and submitted new boundary delineations.	PUMA Program Manager	FY22-Q4
	BBSP Delineation Completed.	Number of participant submitted boundary updates completed.	CRVRDO Program Manager	FY16-Q4
	BBSP Verification Completed.	Number of participant submitted boundary updates completed.	CRVRDO Program Manager	FY17-Q3
	<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>		
PUMA Program Manager	<b>1.2.5.</b> No activities scheduled until FY21.			
CRVRDO Program Manager	<b>1.2.6.</b> Actions Completed (initial phase completed FY16-Q4 and verification completed FY17-Q3).			

<sup>14</sup> “2020 Census Operational Plan: A New Design for the 21st Century, Version 1.1,” U.S. Census Bureau, November 2015, <http://www2.census.gov/programs-surveys/decennial/2020/program-management/planning-docs/2020-oper-plan.pdf>.

<sup>15</sup> Ibid.



Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.2.7.</b> Initiate program criteria and delineate census tabulation block boundaries using 2020 Census results no later than the end of 2020.<sup>16</sup></p>	<p>Complete tabulation block delineation.</p>	<p>Number of tabulation blocks delineated.</p>	<p>Census Block Program Manager</p>	<p>FY20-Q4</p>
<p><b>1.2.8.</b> Beginning in 2019, work with the Office of Management and Budget (OMB) to review the current standards for delineating metropolitan, micropolitan, and related statistical areas in anticipation of OMB re-delineating these areas after the 2020 Census.</p>	<p>Standards review support materials to OMB.</p>	<p>Support materials delivery to OMB completed.</p>	<p>Metropolitan Statistical Area/Micropolitan Statistical Area Program Manager working with OMB</p>	<p>FY20-Q4</p>
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>Census Block Program Manager</p>	<p><b>1.2.7.</b> No activities scheduled until FY20.</p>			
<p>Metropolitan Statistical Area/Micropolitan Statistical Area Program Manager working with OMB</p>	<p><b>1.2.8.</b> Program staff began work with OMB to review the current standards to delineate metropolitan, micropolitan, and related statistical areas.</p>			

<sup>16</sup> “2020 Census Operational Plan: A New Design for the 21st Century, Version 1.1,” U.S. Census Bureau, November 2015, <http://www2.census.gov/programs-surveys/decennial/2020/program-management/planning-docs/2020-oper-plan.pdf>.

**Objective 1.3:** Develop, maintain, and distribute authoritative administrative boundary datasets.

**Anticipated Outcomes:** Administrative measures create administrative boundaries, specify their governmental or administrative functions, and contain provisions to update names and boundaries. Updated boundaries are the framework for the tabulation and presentation of data from the 2020 Census, and the ACS. Federal, state, county, and local agencies, private sector organizations, academic institutions, and the public use data tabulations for planning and funding purposes.<sup>17</sup>

**Agencies, Bureaus, and Offices Involved:** All administrative boundary Dataset and Program Managers, Theme Lead, and the Census Bureau’s Small Area Estimate Branch.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.3.1.</b> Unless otherwise noted in other actions listed below, maintain and update all administrative boundary data as needed according to program schedules. The program schedules pertaining to Census Bureau datasets are detailed in Appendix 1.</p>	<p>Maintain and update administrative boundary datasets not covered elsewhere in this plan.</p>	<p>Number of administrative boundary datasets maintained and updated.</p>	<p>All dataset and program managers of these specified administrative boundary datasets</p>	<p>Q4 each year</p>
<p><b>Agency and/or Stakeholder</b></p>		<p><b>Activities Through FY19-Q4</b></p>		
<p>Theme Lead</p>	<p><b>1.3.1.</b> See dataset and program managers’ reports below. Dataset manager for Housing and Urban Development (HUD) administrative boundaries reported technical difficulties during metadata harvesting to Data.gov in FY19, therefore the most recent updates for the HUD datasets are not discoverable through the metadata on the GeoPlatform.</p>			

<sup>17</sup> “2020 Census Participant Statistical Areas Program (PSAP) Information Guide,” U.S. Census Bureau, June 2018, <https://www2.census.gov/geo/pdfs/partnerships/psap/PSAP-InfoGuide.pdf>.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.3.2.</b> On a biennial basis beginning in August 2017, and on an annual basis starting in 2018 and in subsequent years (2019, 2020), review suggested changes and updates from state officials to modify school district boundaries, grade ranges, and official names for the School District Review Program (SDRP). Submit changes to the Elementary School Districts, Secondary School Districts, and Unified School Districts to the National Center for Education Statistics to Allocate Title 1 funding to school districts.</p>	Complete Annotation Phase.	Number of changes in the school district boundaries or attributes reported to the Census Bureau, reviewed, and adjudicated.	School District Review Program Manager	December 2017, December 2018, December 2019, December 2020
	Complete Verification Phase.	Number of changes in the school district boundaries or attributes reported to the Census Bureau, reviewed, and adjudicated.	School District Review Program Manager	May 2018, May 2019, May 2020
	Submit changes to the National Center for Education Statistics (NCES).	Number of changes submitted to NCES.	Census Bureau/Small Area Estimate Branch	November 2018, November 2019, November 2020
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
School District Review Program Manager	<p><b>1.3.2.</b> The Annotation Phase ended on December 31, 2018 and 28 states submitted updates. The Verification Phase ended on April 19, 2018. The 2019 SDRP Non-Spatial inventory and relationship listings were delivered to the Small Area Income and Poverty Estimates Program on July 12, 2019. As of August 2018, SDRP became an annual boundary collection program instead of biennial (every other year). Materials for the Annotation Phase of the 2020 SDRP were shipped on August 5, 2019. A SDRP training webinar was held for state participants on September 11, 2019.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.3.3.</b> Initiate Phase 1 of the 2020 Census Redistricting Data Program (RDP) coincident with the Block Boundary Suggestion Project (BBSP) in 2016.</p>	Initiate Phase 1.	Not applicable.	RDP Lead	December 2016
<p><b>1.3.4.</b> Initiate and conduct Phase 2 of the 2020 Census RDP in late 2017 to collect Voting District (VTD) boundaries, names, and codes. Complete updates of these boundaries in the Master Address File/TIGER database (MTDB) in early 2020.</p>	VTD Delineation Completed.	Number of participant submitted boundary updates completed.	CRVRDO Program Manager	FY20-Q2
<p><b>1.3.5.</b> Update Bureau of Land Management (BLM) data on Administrative Unit Boundary Polygons and Administrative Unit Office Points. The information contained in this data is updated when necessary and are neither legal documents nor land surveys.</p>	VTD Verification Completed.	Number of participant submitted boundary updates completed.	CRVRDO Program Manager	FY20-Q2
	Updated polygon and/or point received.	Percentage of updates received.	BLM Administrative Unit Boundary Polygons and	Quarterly
	Dataset updated.	Percentage of updates completed.	Administrative Unit Office Points	Quarterly
	Dataset published.	Percentage of updates published.	Dataset Manager	Quarterly
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
RDP Lead	<b>1.3.3.</b> Action completed (FY17-Q1).			
CRVRDO Program Manager	<b>1.3.4.</b> Initial draft VTD collection complete.			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	<b>1.3.5.</b> FY19 activity/status was not provided			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.3.6.</b> Update Environmental Protection Agency (EPA) data on facility locations and regional boundaries. The information contained in this data is updated when necessary.</p> <p><b>1.3.7.</b> Update Housing and Urban Development (HUD) data on Entitlement Grantee Jurisdictions. The Community Development Block Grant (CDBG) program provides annual grants on a formula basis to local, county, and state governments. The information is updated when necessary.</p>	<p>Updated data received (as needed).</p> <p>Dataset updated (as needed).</p> <p>Dataset published (as needed).</p> <p>Update the jurisdictions.</p> <p>Publish updated dataset.</p>	<p>Percentage of anticipated updates received.</p> <p>Percentage of updates completed.</p> <p>Percentage of updates published.</p> <p>Percentage of jurisdictions up-to-date.</p> <p>Percentage of needed boundary updates finalized.</p>	<p>EPA Facility Locations and Regional Boundaries Dataset Manager</p> <p>HUD Entitlement Grantee Jurisdiction Dataset Manager</p>	<p>FY21-Q4</p> <p>FY21-Q4</p> <p>FY21-Q4</p> <p>Q2 each year</p> <p>Q2 each year</p>
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
EPA Facility Locations and Regional Boundaries Dataset Manager	<b>1.3.6.</b> FY19 activity/status was not provided			
HUD Entitlement Grantee Jurisdiction Dataset Manager	<b>1.3.7.</b> Updated dataset to include FY19 grantees.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.3.8.</b> Update National Oceanic and Atmospheric Administration (NOAA) data on National Weather Service County Warning Area Boundaries. Shoreline boundaries of the data is dependent on the shoreline edges of rivers and bays as delineated on a U.S. Geological Survey (USGS) Digital Line Graph (DLG). The edges or borders of the boundary might change as the natural land changes and Weather Forecast Office (WFOs) request for changes. <del>The information contained in this data is updated when necessary.</del></p> <p><i>Between the publishing of the Theme Strategic Plan and the development of this Implementation Plan, the Dataset Manager has recommended removal of the National Weather Service County Warning Area Boundaries as an NGDA. The milestones will now reflect the removal process.</i></p>	<p>Submission of NGDA Dataset Removal Form to the FGDC.</p> <p>FGDC Steering Committee endorses removal.</p>	<p>Removal application submitted to FGDC.</p> <p>FGDC endorsement of dataset removal received.</p>	<p>Governmental Units Theme Lead and National Weather Service County Warning Area Boundaries Dataset Manager</p>	<p>FY17-Q1</p> <p>TBD</p>
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>Theme Lead</p>	<p><b>1.3.8.</b> Removal completed during FY17-Q3.</p>			

**Objective 1.4:** Maintain topological relationships and quality standards for all geographic units and their associated NGDA Datasets in the Governmental Units Theme.

**Anticipated Outcomes:** Updates to all legal, statistical, and administrative boundary data received through scheduled Census Bureau Geographic Programs to maintain topological relationships and data quality standards in the MTDB (see Appendix 1). The Geographic Area Reconciliation Project (GARP) and Boundary Quality Assessment and Reconciliation Project (BQARP) are two Geographic Programs that improve spatial accuracy. Alignment with Parcel and Public Land Survey System (PLSS) boundaries are essential components of the BQARP. The National Boundaries Group (NBG) ensures consistent, accurate, integrated geographic base information for all federal boundaries.

**Agencies, Bureaus, and Offices Involved:** All Dataset and Program Managers, GARP Lead, GUPS Lead, and BQARP Lead.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.4.1.</b> Review all geographic areas and their topological relationships in 2020 to identify “small” summary-level records and unnecessary tabulation blocks during the Geographic Area Reconciliation Project (GARP)<sup>18</sup>. The GARP is conducted once a decade at the end of the decennial program to ensure the integration and quality of boundary information before final block creation. Note: “Small” could mean area, but could also mean minimum thresholds of housing and/or population.</p>	<p>Review completed.</p>	<p>Number of “small” summary-level records and unnecessary tabulation blocks identified.</p>	<p>Census Block Program Manager and GARP Lead</p>	<p>FY20-Q4</p>
<b>Agency and/or Stakeholder</b>		<b>Activities Through FY19-Q4</b>		
Census Block Program Manager and GARP Lead		<b>1.4.1.</b> No activities scheduled until FY20.		

<sup>18</sup> “2020 Census Operational Plan: A New Design for the 21st Century, Version 1.1,” U.S. Census Bureau, November 2015, <http://www2.census.gov/programs-surveys/decennial/2020/program-management/planning-docs/2020-oper-plan.pdf>.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.4.2.</b> Obtain annual updates from theme partners from the Geographic Update Partnership Software (GUPS) tool to load, edit, and display geospatial data, as well as generate yearly output files (to FY 2023) that the Census Bureau will use to update the MAF/TIGER System.</p> <p><b>1.4.3.</b> Expand the use of available imagery for source data assessments.</p>	<p>Generate yearly output files.</p> <p>Study and identify imagery needs.</p> <p>Identify sources and prioritize funding for the imagery programs.</p>	<p>Number of GUPS installations by theme partners.</p> <p>Number of programs reviewed for imagery needs identified.</p> <p>Number of shortfalls, funding sources, and priorities identified.</p>	<p>GUPS Lead</p> <p>All Dataset and Program Managers</p> <p>All Dataset and Program Managers</p>	<p>Q4 each year</p> <p>FY21-Q4</p> <p>FY21-Q4</p>
<b>Agency and/or Stakeholder</b>		<b>Activities Through FY19-Q4</b>		
BAS Lead	<b>1.4.2.</b> During 2019 BAS, 360 Geographic Update Partnership Software (GUPS) installation disks were shipped to BAS participants when requested. In addition, an unspecified number of digital downloads of this tool have been used by 2019 BAS participants to generate yearly output files to update the MAF/TIGER System. See also activity report for Action 1.1.1. for further information.			
School District Review Program (SDRP) Manager	<b>1.4.2.</b> The Census Bureau requires the use of GUPS for SDRP updates. SDRP has 51 potential participants (mapping coordinators) in 50 States plus the District of Columbia. SDRP mails disks with GUPS, data, and participant guides to all of the mapping coordinators at the beginning of the program.			
Voting District Project (VTDP) Manager	<b>1.4.2.</b> 75% of VTDP participants (2,729 counties) used GUPS to create their voting district submissions.			
All Dataset and Program Managers	<b>1.4.3.</b> The Census Bureau routinely uses publicly available imagery and engages state stakeholders who provide current imagery when updates are available.			



Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.4.4.</b> Align spatial boundaries data to maintain topological relationships using authoritative sources, parcel, and Public Land Survey System (PLSS) boundaries during the Boundary Quality Assessment and Reconciliation Project (BQARP). Assess all boundaries and set a quality flag on each boundary segment in the MTDB.</p> <p><b>1.4.5.</b> Reconcile the legal documents (or descriptions) against the Census Bureau spatial boundaries data and cadastral data such as Public Land Survey System (PLSS) and parcel data. This reconciliation is a joint effort between the state or county government and the Census Bureau as well as other federal agencies.</p>	<p>Complete alignment of the spatial boundaries data boundaries to maintain topological relationships.</p> <p>See Action 1.4.4.</p>	<p>Number of entities processed, verified, digitized, quality controlled, assessed, and locked-in the MTDB.</p>	<p>BQARP Lead</p>	<p>FY20-Q4</p>
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>BQARP Lead</p>	<p><b>1.4.4.</b> Acquisition, processing, verification, digitizing, quality control (QC), and assessment of boundary accuracy flag for legal boundary data continued in FY19. To date 357 counties are completed.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.4.6.</b> U.S. Census Bureau will ensure topological integration with international boundary datasets.</p>	<p>Complete integration of U.S.-Canada border.<sup>19</sup></p> <ul style="list-style-type: none"> <li>• Maine</li> <li>• New Hampshire</li> <li>• Vermont</li> <li>• New York</li> <li>• Minnesota</li> <li>• North Dakota</li> <li>• Montana</li> <li>• Idaho</li> <li>• Washington</li> </ul>	<p>Number of states with completed international boundary updates.</p>	<p>BQARP Lead</p>	<p>FY20-Q4</p>
	<p>Complete integration of U.S.-Mexico border.<sup>20</sup></p> <ul style="list-style-type: none"> <li>• California</li> <li>• Arizona</li> <li>• Texas</li> <li>• New Mexico</li> </ul>	<p>Percentage of international boundary integrated in each state.</p>	<p>BQARP Lead</p>	<p>FY20-Q4</p>
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>BQARP Lead</p>	<p><b>1.4.6.</b> Both the U.S./Canada and U.S./Mexico land border updates are 100% complete for all verified governments and are available in TIGERWeb (<a href="https://tigerweb.geo.census.gov/tigerwebmain/TIGERweb_main.html">https://tigerweb.geo.census.gov/tigerwebmain/TIGERweb_main.html</a>). The Rio Grande and Great Lakes water boundaries cannot be verified at this time. The Atlantic side of Maine cannot be verified because of a dispute. The U.S. and International Waters border (Gulf of Mexico side only) was reconciled for the Florida state boundary at the 9-mile limit.</p>			

<sup>19</sup> Border states not listed were completed prior to the drafting of this plan.

<sup>20</sup> Ibid.

**Objective 1.5:** Complete annual Lifecycle Maturity Assessments (LMAs).  
**Anticipated Outcomes:** In 2015, Dataset Managers completed LMAs that established an initial baseline maturity assessment of the Governmental Units Theme datasets. The Theme Summary Report generated from the assessments provides an overview of the status, overall maturity, and other characteristics for the NGDA Datasets for the Governmental Units Theme. Yearly reports define business requirements and evaluate data user requirements, accessibility, cyclic updates, and overall status of the A-16 NGDA Portfolio. Dataset Managers evaluate each new NGDA Dataset added to the Governmental Unit Theme and apply the same methodologies to determine data maturity to contribute to a new Theme Summary Report.  
**Agencies, Bureaus, and Offices Involved:** All Dataset Managers and Program Managers, and the Theme Lead.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>1.5.1.</b> Perform initial baseline assessments on new datasets.	Distribute updated LMA materials and train Dataset Managers and Program Managers.	Number of new datasets completed.	Theme Lead	As needed
	LMAs completed and submitted to FDGC.	Number of new datasets completed.	All dataset managers or program managers of new datasets	As needed
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
Theme Lead	<b>1.5.1.</b> No new datasets have been added to the theme in FY19.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>1.5.2.</b> Update maturity assessments as needed on existing datasets.</p>	<p>Query dataset managers at Q2 and Q4 during each year there is not an FGDC-directed review.</p>	<p>Percentage of dataset LMAs checked for currency.</p>	<p>Theme Lead</p>	<p>Q2 and Q4 during any year without a FGDC-directed review</p>
	<p>Distribute updated LMA materials and conduct training for FGDC-directed review.</p>	<p>Percentage of Dataset Managers and Program Managers contacted.</p>	<p>Theme Lead</p>	<p>Schedule set by FGDC</p>
	<p>FGDC-directed LMAs completed and submitted to FDGC.</p>	<p>Percentage of LMAs completed and submitted to FDGC.</p>	<p>All dataset and program managers</p>	<p>Schedule set by FGDC</p>
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>Theme Lead</p>	<p><b>1.5.2.</b> No activity to report in FY19. LMAs were not required in FY19.</p>			

**Strategic Goal 2** – Facilitate the sharing and distribution of Governmental Units, and Administrative and Statistical Boundaries Theme datasets.

**Objective 2.1:** Publish metadata on Data.gov and the Geospatial Platform (GeoPlatform) to facilitate discovery and use of theme datasets.

**Anticipated Outcomes:** Identify Governmental Units Theme datasets and improve accessibility to a wider audience of geospatial and statistical users through cataloging systems such as Data.gov and the Geospatial Platform (GeoPlatform.gov).

**Agencies, Bureaus, and Offices Involved:** Metadata Publishers, Dataset Managers, and Program Managers

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>2.1.1.</b> Include National Geospatial Data Asset (NGDA) designation keyword tags and NGDA alternate titles in metadata to clearly identify NGDA Datasets within the Governmental Units Theme. Ensure the use of the same title in the metadata record as appears in the NGDA Master Dataset List.</p> <p><i>Schedule for Action 2.1.1. will vary for non-Census Bureau datasets.</i></p> <p><i>HUD Entitlement Grantee Jurisdiction Dataset Manager will complete all milestones Q2 each year.</i></p> <p><i>United States Canadian Boundary Dataset Manager will complete all milestones as needed.</i></p> <p><i>EPA Facility Locations and Regional Boundaries Dataset Manager will complete an initial review of their metadata for action item compliance by the end of FY17-Q2. Further reviews will occur as needed.</i></p> <p><i>The International Boundary United States Mexico Minute 315 Dataset Manager will complete all milestones by FY17-Q3.</i></p> <p><i>BLM Administrative Unit Boundary Polygons &amp; Office Points Dataset Manager will accomplish all milestones with each quarterly posting of their metadata.</i></p>	<p>Metadata requirements Established.</p> <p>Metadata produced.</p> <p>Metadata published.</p>	<p>Percentage of the requirements finalized.</p> <p>The number of datasets where all keyword tags identified. Number of NGDA datasets with alternate titles. Number of datasets having the same title in the metadata record and the NGDA Master Dataset List.</p> <p>Percentage of the datasets published.</p>	<p>Dataset Managers and Program Managers</p> <p>Metadata Publishers</p> <p>Metadata Publishers</p>	<p>Same calendar month (May) each year for Census Bureau datasets</p> <p>Same calendar month (August) each year for Census Bureau datasets</p> <p>Same calendar month (November) each year for Census Bureau datasets</p>

Agency and/or Stakeholder	Activities Through FY19-Q4
Census Bureau	<b>2.1.1.</b> All of the Census Bureau’s 34 NGDAs in this theme include updated metadata with designation keyword tags, NGDA alternate titles in metadata, and identical titles in the metadata record and the NGDA Master Dataset List.
IBWC	<b>2.1.1.</b> All milestones completed for FY18-Q4. In FY19, IBWC reported technical difficulties during metadata harvesting to Data.gov. IBWC set up a public group in ArcGIS Online ( <a href="https://usibwc.maps.arcgis.com/home/group.html?id=23364cfed9c64ea69c4cce4f88ca343f#overview">https://usibwc.maps.arcgis.com/home/group.html?id=23364cfed9c64ea69c4cce4f88ca343f#overview</a> ).
HUD Entitlement Grantee Jurisdiction Dataset Manager	<b>2.1.1.</b> As of August 2, 2019, the metadata tags and URLs for the HUD NGDA datasets are not updated. HUD has updated the metadata records but the Data.gov harvest has failed. The cause of the failure has not yet been determined. HUD is working with its Information Technology (IT) staff and also with General Services Administration (GSA) to determine the cause and to resolve the issue.
IBC	<b>2.1.1.</b> No metadata updates to report in FY19. IBC has reported technical difficulties during metadata harvesting to Data.gov.
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	<b>2.1.1.</b> FY19 activity/status was not provided.
EPA Facility Locations and Regional Boundaries Dataset Manager	<b>2.1.1.</b> FY19 activity/status was not provided.

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>2.1.2.</b> Provide direct Uniform Resource Locators (URLs) to the dataset, online resources, web services, APIs, and additional documentation per FGDC guidelines.</p> <p><i>Schedule for Action 2.1.2. will vary for non-Census Bureau datasets. See Action 2.1.1. for the schedule for the non-Census Bureau datasets.</i></p>	URL requirements established.	Percentage of the requirements finalized.	Dataset Managers and Program Managers	Same calendar month (May) year each for Census Bureau datasets
	URLs updated or produced.	Percentage of datasets with direct Uniform Resource Locators (URLs) to the data set, online resources, web services, APIs, and additional documentation per FGDC guidelines.	Dataset Managers and Program Managers	Same calendar month (August) each year for Census Bureau datasets
	URLs published.	Percentage of the datasets published.	Metadata Publishers	Same calendar month (November) each year for Census Bureau datasets
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
Census Bureau	<b>2.1.2.</b> All of the Census Bureau’s 34 NGDAs in this theme include metadata that provides direct Uniform Resource Locators (URLs) to the dataset, online resources, web services, APIs, and additional documentation per FGDC guidelines.			
IBWC	<b>2.1.2.</b> See update from 2.1.1.			
IBC	<b>2.1.2.</b> See update from 2.1.1.			
HUD Entitlement Grantee Jurisdiction Dataset Manager	<b>2.1.2.</b> See update from 2.1.1.			
BLM	<b>2.1.2.</b> FY19 activity/status was not provided.			
EPA Facility Locations and Regional Boundaries Dataset Manager	<b>2.1.2.</b> FY19 activity/status was not provided.			





Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>2.1.4.</b> Ensure that all metadata published includes only original metadata. Include terms found in published taxonomies and include a referencing thumbnail “browse” graphic in dataset metadata where appropriate. Specify content dates (use the word “present” in lieu of an end-date for continuously collected data).</p> <p><i>Schedule for Action 2.1.4. will vary for non-Census Bureau datasets. See Action 2.1.1. for the schedule for the non-Census Bureau datasets.</i></p>	<p>All datasets contain only original metadata.</p> <p>All datasets include a referencing thumbnail where appropriate.</p> <p>All datasets will specify content dates.</p>	<p>Number of datasets containing only original metadata.</p> <p>Number of datasets with a referencing thumbnail where appropriate.</p> <p>Number of datasets with content dates.</p>	<p>Dataset Managers and Program Managers</p> <p>Dataset Managers and Program Managers</p> <p>Dataset Managers and Program Managers</p>	<p>Same calendar month (November) each year for Census Bureau datasets</p> <p>Same calendar month (November) each year for Census Bureau datasets</p> <p>Same calendar month (November) each year for Census Bureau datasets</p>
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
Census Bureau	<b>2.1.4.</b> All of the Census Bureau’s 34 NGDAs in this theme are published with original metadata, include terms found in published taxonomies, include a referencing thumbnail “browse” graphic in dataset metadata (where appropriate), and specify content dates.			
IBWC	<b>2.1.4.</b> See update from 2.1.1.			
IBC	<b>2.1.4.</b> See update from 2.1.1.			
HUD Entitlement Grantee Jurisdiction Dataset Manager	<b>2.1.4.</b> See update from 2.1.1.			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	<b>2.1.4.</b> FY19 activity/status was not provided.			
EPA Facility Locations and Regional Boundaries Dataset Manager	<b>2.1.4.</b> FY19 activity/status was not provided.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>2.1.5.</b> Provide unique records for collections or series of homogenous datasets (collection-level and member-level metadata records) that vary in content date and geographic extent. Note: this type of collection management is not applicable to indexed records.</p>	<p>All unique records for collections or series of homogenous datasets are completed.</p>	<p>Percentage of records completed.</p>	<p>Dataset Managers and Program Managers of collections or series of homogenous datasets</p>	<p>Same calendar month (November) each year</p>
<b>Agency and/or Stakeholder</b>		<b>Activities Through FY19-Q4</b>		
IBWC	<b>2.1.5.</b> See update from 2.1.1.			
HUD Entitlement Grantee Jurisdiction Dataset Manager	<b>2.1.5.</b> See update from 2.1.1.			
Census Bureau	<b>2.1.5.</b> All unique records for collections or series of homogenous datasets are complete for 2019.			

<b>Objective 2.2:</b> Provide reliable web services with quality metadata to improve the GeoPlatform experience. <b>Anticipated Outcomes:</b> NGDA Datasets for the Governmental Units Theme will be available as web services for efficient consumption and proliferation in web applications. <b>Agencies, Bureaus, and Offices Involved:</b> All Dataset Managers and Program Managers				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>2.2.1.</b> Provide geospatial web services for all NGDAs in the Governmental Unit theme per FGDC guidelines.  <i>The International Boundary United States Mexico Minute 315 Dataset Manager will determine their schedule for all actions in this objective at a later date.</i>	All NGDAs have an associated REST, WMS, WFS, etc.	Number of NGDAs with an associated REST, WMS, WFS, etc.	All Dataset Managers and Program Managers	FY17-Q2; FY17-Q3 for EPA
Agency and/or Stakeholder	Activities Through FY19-Q4			
Census Bureau	<b>2.2.1.</b> The Census Bureau supports all of the 34 NGDAs in this theme with geospatial web services.			
IBWC	<b>2.2.1.</b> All milestones completed in FY18-Q4.			
IBC	<b>2.2.1.</b> No activity to report in FY19.			
HUD Entitlement Grantee Jurisdiction Dataset Manager	<b>2.2.1.</b> HUD has provided geospatial web services for all of its NGDA datasets and continues to maintain them, but the URLs for these services have not been updated as of August 2, 2019 due to technical difficulties during metadata harvesting to Data.gov. HUD IT staff and GSA are working to resolve this issue.			
BLM	<b>2.2.1.</b> FY19 activity/status was not provided.			
EPA Facility Locations and Regional Boundaries Dataset Manager	<b>2.2.1.</b> FY19 activity/status was not provided.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
2.2.2. All geospatial web services linked via URL to the GeoPlatform meet the GeoPlatform's performance metrics standards.	All REST, WMS, WFS, etc. meet the performance metrics standards.	Number of NGDAs with REST, WMS, WFS, etc. linked via URL to the GeoPlatform meeting the GeoPlatform's performance metrics standards.	All Dataset Managers and Program Managers	FY17-Q4
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
Census Bureau	2.2.2. The Census Bureau supports all of the 34 NGDAs in this theme with geospatial web services. All geospatial web services, except for one remaining NGDA (Census Regional Boundaries), are linked via URL to the GeoPlatform and meet the GeoPlatform's performance metrics standards.			
IBWC	2.2.2. All milestones completed in FY18-Q4.			
IBC	2.2.2. No activity to report in FY19.			
HUD Entitlement Grantee Jurisdiction Dataset Manager	2.2.2. As of August 2, 2019, HUD has been unable to monitor the performance metrics for its NGDA web services on the GeoPlatform dashboard because the URLs in the metadata records have not been updated (see 2.2.1).			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	2.2.2. FY19 activity/status was not provided.			
EPA Facility Locations and Regional Boundaries Dataset Manager	2.2.2. FY19 activity/status was not provided.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>2.2.3.</b> Metadata must include an actionable Service Endpoint URL that will launch a web mapping service. If no actionable Service Endpoint is available, provide the URL that gets the user closest to the geospatial web services. As individual services are developed, the metadata link will be updated to the actionable Service Endpoint.</p>	<p>All metadata includes a REST, WMS, WFS, etc. with either a current actionable Service Endpoint URL or a URL that provides the closest link to the web mapping service.</p>	<p>Number NGDA datasets with metadata including a REST, WMS, WFS, etc. with either a current actionable Service Endpoint URL or a URL that provides closest link to the web mapping service.</p>	<p>All Dataset Managers and Program Managers</p>	<p>FY17-Q2; FY17-Q3 for EPA</p>
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>Census Bureau</p>	<p><b>2.2.3.</b> The metadata of all of the Census Bureau’s 34 NGDAs in this theme include an actionable Service Endpoint URL that will launch a web mapping service.</p>			
<p>IBWC</p>	<p><b>2.2.3.</b> All milestones completed in FY18-Q4.</p>			
<p>IBC</p>	<p><b>2.2.3.</b> No activity to report in FY19.</p>			
<p>HUD Entitlement Grantee Jurisdiction Dataset Manager</p>	<p><b>2.2.3.</b> No activities to report in FY19.</p>			
<p>BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager</p>	<p><b>2.2.3.</b> FY19 activity/status was not provided.</p>			
<p>EPA Facility Locations and Regional Boundaries Dataset Manager</p>	<p><b>2.2.3.</b> FY19 activity/status was not provided.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>2.2.4.</b> In the metadata, URLs will be tagged with the acronym that best represents the geospatial web services such as REST, WMS, WFS, etc. per the NGDA Metadata Guidance. <sup>21</sup>	All URLs currently tagged with the best acronym.	Number of datasets with URLs correctly tagged.	All Dataset Managers and Program Managers	FY17-Q2
<b>Agency and/or Stakeholder</b>		<b>Activities Through FY19-Q4</b>		
Census Bureau	<b>2.2.4.</b> All of the Census Bureau’s 34 NGDAs include metadata with URLs tagged with the acronym that best represents the geospatial web services such as REST, WMS, WFS, etc. per the NGDA Metadata Guidance.			
IBWC	<b>2.2.4.</b> All milestones completed in FY18-Q4.			
IBC	<b>2.2.4.</b> No activity to report in FY19.			
HUD Entitlement Grantee Jurisdiction Dataset Manager	<b>2.2.4.</b> No activities to report in FY19.			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	<b>2.2.4.</b> FY19 activity/status was not provided.			
EPA Facility Locations and Regional Boundaries Dataset Manager	<b>2.2.4.</b> FY19 activity/status was not provided.			

<sup>21</sup> “National Geospatial Data Asset (NGDA) Metadata Guidelines, Version 3,” Federal Geographic Data Committee, July 2016, [https://communities.geoplatform.gov/ngda-portfolio/wp-content/uploads/2017/12/NGDA\\_Metadata\\_Guidelines\\_v3.pdf](https://communities.geoplatform.gov/ngda-portfolio/wp-content/uploads/2017/12/NGDA_Metadata_Guidelines_v3.pdf).

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>2.2.5.</b> ISO metadata developers will document their geospatial web services using as a standalone Service Identification Record. This will allow the linking of the metadata of current and future versions of the same dataset to the same Service Identification Record.</p>	<p>All geospatial web services within ISO metadata records are documented using as a standalone Service Identification Record.</p>	<p>Number of datasets with ISO metadata records completed.</p>	<p>Dataset Managers and Program Managers with ISO metadata records</p>	<p>FY17-Q4</p>
<b>Agency and/or Stakeholder</b>		<b>Activities Through FY19-Q4</b>		
Census Bureau	<b>2.2.5.</b> All of the Census Bureau’s 34 NGDAs in this theme have documented geospatial web services using a standalone Service Identification Record.			
IBWC	<b>2.2.5.</b> Milestone completed in FY18-Q4.			
BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager	<b>2.2.5.</b> FY19 activity/status was not provided.			
EPA Facility Locations and Regional Boundaries Dataset Manager	<b>2.2.5.</b> FY19 activity/status was not provided.			
IBC	<b>2.2.5.</b> No activity to report in FY19.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>2.2.6.</b> CSDGM metadata developers must document their geospatial web services using the distribution section the NGDA Metadata Guidance. Failure to do so will result in the inability of the Geospatial Platform to identify and promote the service.</p>	<p>All CSDGM metadata records documented their geospatial web services per the NGDA Metadata Guidance.</p>	<p>Number of datasets with CSDGM metadata records completed.</p>	<p>Dataset Managers and Program Managers with CSDGM metadata records</p>	<p>FY17-Q4</p>
<b>Agency and/or Stakeholder</b>		<b>Activities Through FY19-Q4</b>		
<p>HUD Entitlement Grantee Jurisdiction Dataset Manager</p>	<p><b>2.2.6.</b> No activity to report in FY19.</p>			
<p>BLM Administrative Unit Boundary Polygons and Administrative Unit Office Points Dataset Manager</p>	<p><b>2.2.6.</b> FY19 activity/status was not provided.</p>			
<p>EPA Facility Locations and Regional Boundaries Dataset Manager</p>	<p><b>2.2.6.</b> FY19 activity/status was not provided.</p>			



**Strategic Goal 3** – Coordinate the Governmental Units, and Administrative and Statistical Boundaries Theme among stakeholders.

**Objective 3.1:** National Boundary Group (NBG), formally designated as an FGDC Working Group in 2014, leads the development of nationally consistent boundaries that are integrated using the same geographic base. Federal boundary sources will be consistent, accurate, and integrated.

**Anticipated Outcomes:** Participating federal agencies achieve currency, accuracy, consistency, accessibility, and interoperability with all boundary datasets through collaborative opportunities. FGDC subcommittees and subgroups that collaborate participate with in the NBG, maintain and access high-quality boundary datasets. Identify authoritative sources and authoritative integrators for boundary data including but not limited to tribal areas, federal land boundaries, state lines, county lines, maritime boundaries, and international boundaries.

**Agencies, Bureaus, and Offices Involved:** National Boundary Group (NBG) and the Census Bureau’s Spatial Data Collection and Products Branch

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
3.1.1. Conduct quarterly meetings of the National Boundary Group (NBG). Continue to provide an open forum for the exchange of ideas to improve the overall management and availability of boundaries in federal datasets.	Meeting occurs each quarter.	Publication of meeting minutes.	NBG Lead	FY21-Q4
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
NBG Lead	3.1.1. The NBG met twice in FY19: November 8, 2018 and January 30, 2019.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.1.2.</b> Identify collaborative opportunities with tribal, federal, state, county, and local governments regarding consistent boundaries and datasets.	Identify new collaborative opportunities with federal agencies.	Number of collaborative opportunities identified.	NBG Lead	FY21-Q4
	Identify new collaborative opportunities with tribal governments.	Monthly meetings of the Tribal Boundary Subgroup.	NBG Lead	FY21-Q4
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
NBG Lead	<p><b>3.1.2.</b> The NBG continued collaboration with the Cadastral Subcommittee and the Dataset Managers for the PAD-US dataset to identify boundaries coincident with cadastral features such as parcels and the public land survey system. The U.S. Census Bureau has continued to use the results of this activity for the Boundary Quality Assessment and Reconciliation Project (BQARP) through FY19. The NBG continued discussions about the availability of military lands from the Department of Defense and the U.S. Army Corps of Engineers to the public and other federal agencies.</p> <p>The significant NBG goals are:</p> <ol style="list-style-type: none"> <li>1. The NBG will hold limited meetings to summarize progress of ongoing tasks.</li> <li>2. The U.S. Census Bureau will continue to provide quarterly updates on the BQARP.</li> <li>3. The Federal Lands Workgroup (FLWG) will improve the efficiency of annual federal lands data aggregation and integration for the PAD-US through source data documentation and continued outreach to state and local governments.</li> <li>4. The Tribal Boundaries Workgroup is temporarily on hold. Work on the Bureau of Indian Affairs (BIA) spatial data review is in progress.</li> <li>5. The U.S. Census Bureau will continue to update the international boundaries in the MTDB using IBC and IBWC boundaries.</li> </ol>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>3.1.2. (cont.)</b> Identify collaborative opportunities with tribal, federal, state, county, and local governments regarding consistent boundaries and datasets.</p>	<p>Identify new collaborative opportunities with state, county, and local governments. (See Action 1.1.2.)</p>			
<p><b>Agency and/or Stakeholder</b></p>		<p><b>Activities Through FY19-Q4</b></p>		
<p>NBG Lead</p>	<p><b>3.1.2.</b> NBG continues to work on these challenges and opportunities:</p> <ol style="list-style-type: none"> <li>1. Outreach to federal agencies that consume or produce datasets that define or affect boundaries to:               <ol style="list-style-type: none"> <li>a. Reduce duplication of effort; and</li> <li>b. Increase the overall quality of shared boundary data.</li> </ol> </li> <li>2. Continue to provide an open forum for the exchange of ideas to improve the overall management and availability of boundaries in federal datasets.</li> <li>3. Identify collaborative opportunities with tribal, federal, state, and local governments to share accurate boundary data.</li> </ol>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>3.1.3.</b> Collect locally sourced data with tribal, federal, state, county, and local partners to update the theme’s boundary datasets where necessary.</p>	<p>Coordinate with international partners (IBC &amp; IBWC) to receive their data updates (see Action 1.4.6)</p>	<p>Number of datasets collected for individual states along the U.S./Canada, and U.S./Mexico borders.</p>	<p>NBG Lead</p>	<p>FY21-Q4</p>
	<p>Collect locally sourced data with federal, state, county, and local partners.</p>	<p>Percentage of datasets collected from respondents with no changes recorded.</p>	<p>NBG Lead</p>	<p>Q3 each year</p>
		<p>Percentage of datasets collected from respondents with changes recorded.</p>	<p>NBG Lead</p>	<p>Q3 each year</p>
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>NBG Lead</p>	<p><b>3.1.3.</b> As of September 30, 2019, the Census Bureau has processed updates from 6,322 governments, via both digital BAS submissions (both regular digital submissions and Geographic Update Partnership Software (GUPS) submissions) and paper BAS submissions for the 2019 BAS.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.1.4.</b> Maintain and facilitate charter goals of the NBG subgroups (Tribal Boundaries Working Group, Federal Lands Working Group).	Create and then annually review goals of the Tribal Boundaries Subgroup for currency.	Number of goals retired as completed or no longer relevant.	NBG Lead	Q4 each year
	Annually review goals of the Federal Lands Working Subgroup for currency.	Number of new goals identified.	NBG Lead	Q4 each year
		Number of goals retired as completed or no longer relevant.	NBG Lead	Q4 each year
		Number of new goals identified.	NBG Lead	Q4 each year
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
NBG Lead	<p><b>3.1.4.</b> The Tribal Boundaries Subgroup Activities are temporarily on hold.</p> <p><b>3.1.4.</b> The Federal Lands Working Group (FLWG) identified the following goals:</p> <ul style="list-style-type: none"> <li>• <b>Automate updates</b> - continue efforts to automate updates and assess options to maintain a persistent identifier from authoritative agency source data in the PAD-US format and work with USGS as new strategic and technology directions for PAD-US evolve.</li> <li>• <b>Complete inventory</b> - assess needs and identify opportunities to complete the inventory of federal lands (i.e., fee, easement, designations).</li> <li>• <b>Publish guidance and engage users</b> - publish guidance for base map developers and engage key stakeholders</li> <li>• <b>Highlight major topology overlaps</b> - update the PAD-US Review Tool with PAD-US 2.0 Web Mapping Services (published by USGS), including fee topology assessment layers, for internal FLWG review; highlight major overlaps that remain for data steward consideration.</li> <li>• <b>Expand outreach</b> - share PAD-US / FLWG updates with Congressional Research Service Analysts, present federal applications during The Department of Interior's Office of Policy Analysis Seminar, collaborate with ESRI to share available data, share Federal Recreation Map, and determine other opportunities within agency networks.</li> <li>• <b>FLWG Face-to-Face meeting</b> - attend annual face-to-face meeting (during the ESRI Federal Users Conference, January 29-31, 2019)</li> </ul>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>3.1.5.</b> Collaborate with the Cadastral Subcommittee to identify where boundaries are coincident with cadastral features.</p> <p><b>3.1.6.</b> Collaborate with the Cadastral Subcommittee on BQARP activities. The Census Bureau reconciles the legal documents (or descriptions) against the Census Bureau spatial boundaries data and cadastral data such as Public Land Survey System (PLSS) and parcel data.</p>	<p>All coincident boundaries identified.</p> <p>All boundaries reconciled.</p>	<p>Number of coincident boundaries miles identified.</p> <p>Number of miles of boundary reconciliations by BQARP each year.</p>	<p>NBG Lead</p> <p>NBG Lead</p>	<p>Completed</p> <p>Q4 each year</p>
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
NBG Lead	<b>3.1.5.</b> Action Completed in FY17. A total of 77,737 miles of county boundaries and 9,928 miles of state boundaries identified as coincident.			
NBG Lead	<b>3.1.6.</b> The NBG continued collaboration with the cadastral subcommittee and the PAD-US dataset manager to identify boundaries coincident with cadastral features such as parcels and the public land survey system. The U.S. Census Bureau has continued to use the results of this activity for the Boundary Quality Assessment and Reconciliation Project (BQARP) through FY19.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>3.1.7.</b> The National Boundary Group will coordinate with the Marine and Coastal Spatial Data Subcommittee of the Water–Oceans and Coasts Theme to establish and publish standards and specifications for marine and coastal spatial data, and establish priorities for marine and coastal spatial data collection, processing, and dissemination.</p>	<p>All standards and specifications established and published.</p>	<p>Number of standards and specifications established and published.</p>	<p>NBG Lead</p>	<p>FY21-Q4</p>
	<p>Data collection priorities established.</p>	<p>Number of data collection priorities identified.</p>	<p>NBG Lead</p>	<p>FY21-Q4</p>
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>NBG Lead</p>	<p><b>3.1.7.</b> Action not completed due to the removal of the National Weather Service County Warning Area Boundaries NGDA in FY17 (see action 1.3.8).</p>			

**Objective 3.2:** The Tribal Boundaries Working Group, formally designated as a NBG working group in 2015, identifies the data and communication needs for agencies and governments using tribal boundary data. These agencies include the Tribal governments, Department of Interior (DOI), the Census Bureau, Federal Emergency Management Agency (FEMA), and Forest Service (USFS).

**Anticipated Outcomes:** The Tribal Boundaries Working Group documents tribal land and boundary data use, data quality requirements, and boundary attribute needs for all federal agencies, governments, and institutions. Online resource of meeting notes, documents, presentations, and upcoming events maintained and distributed to members on a regular basis.

**Agencies, Bureaus, and Offices Involved:** Tribal Boundaries Working Group

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>3.2.1.</b> Maintain approved charter goals of the recently established Tribal Boundaries Working Group.</p> <p><b>3.2.2.</b> Identify uses of tribal boundary data for all federal agencies. Geospatial resources include legal tribal land boundary data, tribal statistical areas (for data collection, tabulation, and analysis), and a FEMA Tribal Consultation database (with emergency contacts, grants, assistance, programs, and major disaster declarations).</p> <p><b>3.2.3.</b> Facilitate regular meetings of the Tribal Boundaries Working Group as a platform for federal agencies and tribal governments to document needs for data quality and boundary attributes.</p>	<p>See Action 3.1.4.</p> <p>All federal agencies surveyed.</p> <p>All meetings occur as scheduled.</p>	<p>Number of federal agency responses to survey.</p> <p>Number of uses and need identified.</p> <p>Meeting minutes document needs for data quality and boundary attributes.</p>	<p>Tribal Boundaries Workgroup Lead</p> <p>Tribal Boundaries Workgroup Lead</p> <p>Tribal Boundaries Workgroup Lead</p> <p>Tribal Boundaries Workgroup Lead</p>	<p></p> <p>Q4 each year</p> <p>Q4 each year</p> <p>Monthly</p>
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
Tribal Boundaries Working Group Lead	<b>3.2.2.</b> On hold through the 2020 Decennial Census.			
Tribal Boundaries Working Group Lead	<b>3.2.3.</b> On hold through the 2020 Decennial Census.			



Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>3.2.4.</b> Create an instructional resource to document legislation or program criteria for tribal boundaries.</p> <p><b>3.2.5.</b> Define and document datasets of tribal lands and boundaries, population and economic data, mineral resources, and criteria for programs, where appropriate.</p> <p><b>3.2.6.</b> Document responsible authority or authoritative sources for tribal lands and boundaries datasets.</p>	Research and gather legislation and/or program criteria.	Number of sources checked for material.	Tribal Boundaries Workgroup Lead	FY21-Q4
	Construction of an instructional resource.	Number of pieces of legislation and criteria documented.	Tribal Boundaries Workgroup Lead	FY21-Q4
	Define and document geospatial datasets.	Number of geospatial datasets documented.	Tribal Boundaries Workgroup Lead	Q4 each year
	Documentation completed.	Number of sources documented.	Tribal Boundaries Workgroup Lead	FY21-Q4
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
Tribal Boundaries Working Group Lead	<b>3.2.4.</b> On hold through the 2020 Decennial Census.			
Tribal Boundaries Working Group Lead	<b>3.2.5.</b> On hold through the 2020 Decennial Census.			
Tribal Boundaries Working Group Lead	<b>3.2.6.</b> On hold through the 2020 Decennial Census.			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.2.7.</b> Discuss ways that agencies can collaborate, reduce duplication, and share tribal boundary information.	Topic is focus of at least one working group meeting per year.	Potential collaboration opportunities identified.	Tribal Boundaries Workgroup Lead	Q4 each year
<b>3.2.8.</b> Coordinate collection, verification, and publication of authoritative legal, statistical, and boundary data on American Indian Land for use by tribal governments and other federal, state, county, and local agencies (i.e. Reservation and Trust Land Boundary Inventory and Update).	Collect authoritative data.	Number of authoritative datasets collected.	Tribal Boundaries Workgroup Lead	FY21-Q4
	Verify authoritative data.	Number of authoritative datasets verified.	Tribal Boundaries Workgroup Lead	FY21-Q4
	Publish authoritative data, where possible.	Number of authoritative datasets published.	Tribal Boundaries Workgroup Lead	FY21-Q4
<b>3.2.9.</b> Support a Tribal Nations Community on the GeoPlatform.	Post the Tribal Nations Community URL on the Tribal Boundaries Workgroup Community Page.	Tribal Boundaries Workgroup Community Page is updated.	Tribal Boundaries Workgroup Lead	Q2 and Q4 each year
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
Tribal Boundaries Working Group Lead	<b>3.2.7.</b> On hold through the 2020 Decennial Census.			
Tribal Boundaries Working Group Lead	<b>3.2.8.</b> On hold through the 2020 Decennial Census.			
Tribal Boundaries Working Group Lead	<b>3.2.9.</b> On hold through the 2020 Decennial Census.			

**Objective 3.3:** The Federal Lands Working Group (FLWG) develops a data standard and the organizational strategies for the aggregation of federally owned lands in a spatial database.

**Anticipated Outcomes:** Federal agencies achieve currency, accuracy, consistency for federal land areas information and use or generate new data without duplication. Alignment with applicable agency business plans (i.e., Bureau of Land Management, Environmental Protection Agency, National Park Service, U.S. Forest Service, U.S. Geological Survey) to access, update and publish federal land areas data.

**Agencies, Bureaus, and Offices Involved:** FLWG Lead, Board on Geographic Names (BGN), and USGS

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>3.3.1.</b> Continue collaborative testing and refinement of the Protected Areas Database of the U.S. (PAD-US) Data Standard through the FLWG for an aggregated Federal Lands Geodatabase that contributes to the PAD-US, published by USGS.</p>	<p>PAD-US Data Standard published with FGDC endorsement.</p>	<p>Number of publication steps completed.</p>	<p>FLWG Lead</p>	<p>FY18-Q4</p>
<b>Agency and/or Stakeholder</b>		<b>Activities Through FY19-Q4</b>		
<p>FLWG Lead</p>	<p><b>3.3.1.</b> The FGDC approval process is pending USGS refinements to online <a href="#">data manual</a> (in progress).</p> <p>As of September 30, 2019, the Census Bureau has processed updates from 6,322 governments, via both digital BAS submissions (both regular digital submissions and Geographic Update Partnership Software (GUPS) submissions) and paper BAS submissions for the 2019 BAS.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>3.3.2.</b> Maintain the PAD-US, a geodatabase developed by the USGS, Core Science Systems (PAD-US 1.4 published May 2016) in collaboration with the FLWG. Improve data compatibility within the PAD-US geodatabase with documented source data files and field mapping.</p>	Automated federal land updates.	Number of required agencies that have automated the translation of updated source data to the PAD-US format.	FLWG Lead	Q4 each year
	Annual PAD-US publication.	Number of files and maps received and processed to improve compatibility.	FLWG Lead	Q4 each year
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>FLWG Lead (cont.)</p>	<p><b>3.3.2.</b> The PAD-US Team worked closely with the FLWG to fully update and review the federal estate in PAD-US 2.0. USGS published the geodatabase in Sept 2018, and announced new web services and other products in July 2019. PAD-US 2.0 reflects best available geospatial data for federal lands owned and managed by 8 federal agencies (Bureau of Land Management (BLM), National Park Service (NPS), Fish and Wildlife Service (FWS), Department of Defense (DoD), Natural Resources Conservation Service (NRCS), Forest Service (USFS), National Oceanic and Atmospheric Admin (NOAA), and Bureau of Ocean Energy Management (BOEM). Agencies are always the best and official source of their lands data. In addition, over 30 state updates are included. The FLWG reviewed the first draft (June 22, 2017) of the Federal Areas geodatabase – focused on the translation of agency data into the PAD-US format and feature class placement in the new database structure (Fee, Designation, Easement, Marine, Proclamation). The FLWG reviewed the second draft (November 7, 2017) of the Federal Areas geodatabase including all PAD-US attributes (some transferred from PAD-US 1.4) – focused on the presentation of Owner Name, Manager Name, Protection Status (GAP Status Code) and Public Access (the most commonly used information). Agency data stewards reviewed (April 9, 2018) the full PAD-US 2.0 geodatabase – focused on the Fee ownership layer (changed significantly from PAD-US 1.4 with the removal of overlapping management designations), while considering federal lands in context with state and other lands.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>3.3.3.</b> Aggregate federal land ownership and management designations from authoritative sources to meet common agency needs, and deliver to USGS for publication of PAD-US in a multiple feature class structure to better manage overlaps.</p>	<p>Best available ownership and management designations collected.</p> <p>Multiple feature class structure published.</p>	<p>Increases in the estimates of current inventory completeness.</p> <p>Number of agencies that submit data to USGS for PAD-US in multiple feature class structure: “Fee”, “Designations”, and “Easements”.</p>	<p>FLWG Lead &amp; USGS</p> <p>FLWG Lead &amp; USGS</p>	<p>Q4 each year</p> <p>FY21-Q4</p>
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>FLWG Lead</p>	<p><b>3.3.3.</b> FLWG agencies responded to a poll shared by USGS in Aug 2019 to assess the scope of update needs for PAD-US 2.1. USGS is compiling feedback to finalize the 2.1 Road Map and timeline.</p> <p>FLWG agencies reviewed the plan for the PAD-US 2.0 update, indicating whether updated data are available or if no changes are required. Three agencies (Forest Service, National Park Service and US Fish &amp; Wildlife Service) submitted data in the PAD-US 2.0 multiple feature class structure (Fee, Easement, Designation, Proclamation). The Bureau of Land Management (BLM) submitted 12 files representing BLM lands and designations (no easements) that required USGS data translation. The Natural Resources Conservation Service (NRCS) and Department of Defense (DoD) each submitted 1 file requiring USGS translation while the Bureau of Ocean Energy Management (BOEM) submitted 4 regional files requiring USGS translation and aggregation. The National Oceanic and Atmospheric Administration (NOAA) submitted Marine Protected Areas data closely aligned with PAD-US. The United States Bureau of Reclamation (USBR), and United States Army Corps of Engineers (USACE), requested data transferred from PAD-US 1.4 as best available while data development efforts (compatible with PAD-US) continue. The Bureau of Indian Affairs (BIA) requested the removal of the American Indian and Alaskan Native Land dataset from PAD-US 2.0 as an inappropriate data use.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>3.3.4.</b> Evaluate federal naming standards to improve the federal theme in PAD-US.</p>	<p>Evaluate all federal naming standards (Board on Geographic Names (BGN), PAD-US Standard).</p>	<p>Number of agencies that submit “Unit Name” and follow established standards (PAD-US and BGN).</p>	<p>FLWG Lead &amp; BGN Lead</p>	<p>FY21-Q4</p>
<p><b>Agency and/or Stakeholder</b></p>		<p><b>Activities Through FY19-Q4</b></p>		
<p>FLWG Lead</p>	<p><b>3.3.4.</b> The PAD-US Team discussed options with the USFS to provide more detailed “Unit Names” in PAD-US, in response to user and stakeholder feedback. PAD-US 1.4 and 2.0 includes administrative forest names, which do not always reflect the actual National Forest or National Grassland and are more useful internally. USFS is reassessing the most appropriate names for use in the next PAD-US (2.1) as part of a pilot to improve the representation of federal lands data in Google Maps using PAD-US.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.3.5.</b> Complete boundary adjudication effort with all applicable sources and agencies to reduce topology errors (overlaps and gaps) between agency datasets.	Assess “Fee” topology errors.	Number of agencies that collaborate to reduce topology errors.	FLWG Lead	FY21-Q4
	Adjudication completed.	Area of topology overlap errors reduced.	FLWG Lead	FY21-Q4
<b>Agency and/or Stakeholder</b>		<b>Activities Through FY19-Q4</b>		
FLWG Lead	<p><b>3.3.5.</b> The FLWG reviewed updates to the “PAD-US Federal Topology Edition” Review tool (<a href="http://www.mapcollaborator.org/padus/">http://www.mapcollaborator.org/padus/</a>) in August 2019. USGS cooperators developed a beta tool (for FLWG internal use only) to highlight overlaps between agency datasets in the PAD-US Fee layer for data-steward consideration. Recent tool updates include topology assessment layers and web services from PAD-US 2.0. USGS reported a significant reduction in overlaps between the PAD-US 1.3 and version 2.0. USGS is compiling data-steward and stakeholder feedback, including communication with Cadastral Theme leadership, to determine next steps (if any).</p> <p>The new PAD-US 2.0 database structure significantly reduced overlaps within the federal theme of the “Fee” ownership feature class (goal). USGS assessed all overlaps, major (greater than 5 acres) and minor (less than 5 acres) overlaps between federal agency datasets, and between federal and state lands in PAD-US 2.0. The complete PAD-US 2.0 Fee Topology Assessment is available to download (<a href="https://www.sciencebase.gov/catalog/item/5b030c7ae4b0da30c1c1d6de">https://www.sciencebase.gov/catalog/item/5b030c7ae4b0da30c1c1d6de</a>).</p> <p>In addition, USGS developed three Web Mapping Services from the PAD-US 2.0 Topology Assessment: All topo overlaps, Federal/Federal over 5 acres, Federal/State over 5 acres for the FLWG tool and for users who have questions about topology. See the <a href="#">PAD-US web services</a> page to add these assessments to the PAD-US Viewer (<a href="https://maps.usgs.gov/padus/">https://maps.usgs.gov/padus/</a>) or other applications.</p>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>3.3.6.</b> Review the draft PAD-US Standards Manual to improve the efficiency and effectiveness of federal land updates and ensure stakeholder needs are met.</p> <p><b>3.3.7.</b> Develop and publish source data documentation to identify the data sources aggregated from applicable agencies and field mapping for Federal Land Geodatabase update in PAD-US format.</p>	Review completed.	Percentage of manual reviewed.	FLWG Lead	FY21-Q4
	All federal stakeholders endorse manual.	Number of stakeholders that endorse the manual.	FLWG Lead	FY21-Q4
	Develop source data documentation.	Number of sources contacted.	FLWG Lead	FY21-Q4
	Publish source data documentation.	Number of source files that describe documentation reviewed by agencies.	FLWG Lead	FY21-Q4
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
FLWG Lead	<b>3.3.6.</b> No activity to report in FY19. Action pending USGS Data Manual publication.			
FLWG Lead	<b>3.3.7.</b> The PAD-US Team collaborated closely with the FLWG to document all source data submitted for PAD-US 2.0. Public facing online and PDF Steward Reports describing the agency steward organization, contacts, source data access points, estimated inventory completeness and source files submitted for PAD-US 2.0 are now available: <a href="http://www.protectedlands.net/data-stewards/">http://www.protectedlands.net/data-stewards/</a> (along with State and nonprofit data steward reports). USGS will also make this source data available.			



Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.3.8.</b> Document common agency needs for PAD-US.	Biannual collection of common agency needs.	Number of agencies contacted.	FLWG Lead	FY17-Q4; FY19-Q4; FY21-Q4
	Documentation completed.	Number of needs validated.	FLWG Lead	FY17-Q4
	Common agency needs communicated to USGS as publisher of PAD-US.	USGS acknowledges receipt of documentation on common agency needs from FLWG.	FLWG Lead	FY17-Q4
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
FLWG Lead	<b>3.3.8.</b> PAD-US 2.0 common agencies needs were reviewed by FLWG and shared with USGS. Priorities include: <ul style="list-style-type: none"> <li>• Improve data quality – complete inventory and reduce boundary discrepancies (produce a topology error free “Fee” parcel layer with ownership and management defined);</li> <li>• Improve attributes – focus on Category, Owner/Manager, Unit Name, Designation Type, Public Access, GAP Status Code and add persistent ID;</li> <li>• Expand outreach to increase awareness and support users. Current federal stakeholders include: Congressional Research Service/House/Senate/GAO GIS Groups, National Wildfire Coordination Group, Federal Recreation Council, Base map providers (ESRI, Google, USGS National Map, etc.), The Department of Interior, Federal Land Roads Working Group, Department of Homeland Security, the Department of Defense, Census, USGS Core Science Systems, The Environmental Protection Agency and internal FLWG agency efforts. Additional work to inform the Federal Highway Administration and Emergency Management agencies about PAD-US and FLWG efforts is pending.</li> </ul>			

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<b>3.3.9.</b> Support federal applications of PAD-US through FLWG outreach.	Delivered presentations.	Number and breadth of groups reached.	FLWG Lead	Q4 each year
	Conference participation.	FLWG Fact Sheet updated.	FLWG Lead	Q4 each year
	Outreach materials distributed.	Number of derivative stakeholder products completed.	FLWG Lead	Q4 each year
<b>Agency and/or Stakeholder</b>	<b>Activities Through FY19-Q4</b>			
FLWG Lead	<p data-bbox="520 625 1877 797"> <b>3.3.9.</b> USGS Cooperators and the FLWG completed base map guidance, including a helpful summary graphic titled “The Status of PAD-US Data”, to support developers as they apply PAD-US data. The guidance also includes sections for each FLWG agency to support agency specific updates as needed. The graphic and guidance are revised as needed, the current version is available on the FLWG website: <a href="https://communities.geoplatform.gov/ngda-govunits/federal-lands-workgroup/">https://communities.geoplatform.gov/ngda-govunits/federal-lands-workgroup/</a>.           </p> <p data-bbox="520 841 1877 976">             The FLWG shared base map guidance with Esri, the USGS National Geospatial Program (for USTopo), and Google, and is expanding outreach to Apple, Uber, and others. A pilot project is in progress to improve the representation of federal lands in Google Maps. USGS shared NPS, USFS, and FWS data from PAD-US 2.0 with Google and hosted meetings with developers and agency data-stewards to refine protocols.           </p> <p data-bbox="520 1019 1877 1081">             The FLWG updated the information brochure and website in July 2019 to reflect recent accomplishments, current objectives and changes in agency representation, available from the FLWG website.           </p>			

**Objective 3.4:** Continue collaboration between Census Bureau, the International Boundary Commission (IBC) and the International Boundary and Water Commission (IBWC) to complete the update of all international boundaries in Census Bureau’s Digital Geographic Database of the United States.

**Anticipated Outcomes:** Census Bureau will have an accurate depiction of international boundaries of the United States for use by all those who need it.

**Agencies, Bureaus, and Offices Involved:** IBC & IBWC

Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>3.4.1.</b> Update international boundaries in the MTDB through continued agency collaboration, meetings, and webinars between the Census Bureau, the International Boundary Commission (IBC), the International Boundary and Water Commission (IBWC), and the US Geological Survey (USGS).</p>	<p>See Action 1.4.6.</p>			
<p><b>3.4.2.</b> Release IBC changes to international boundary. Update as needed.</p>	<p>Updates published as needed.</p>	<p>Number of updates published.</p>	<p>IBC</p>	<p>FY21-Q4</p>
<p><b>3.4.3.</b> Incorporate recently resurveyed monument data from the US and Mexico border.</p>	<p>Data incorporation completed.</p>	<p>Percentage of data incorporation completed.</p>	<p>IBWC</p>	<p>FY18-Q4</p>
	<p>Release preliminary maps.</p>	<p>Percentage of maps released.</p>	<p>IBWC</p>	<p>FY18-Q4</p>
<p><b>Agency and/or Stakeholder</b></p>	<p><b>Activities Through FY19-Q4</b></p>			
<p>IBC</p>	<p><b>3.4.2.</b> This action is completed.</p>			
<p>IBWC</p>	<p><b>3.4.3.</b> This action is completed.</p>			

<p><b>Objective 3.5:</b> The Governmental Units, and Administrative and Statistical Boundaries Theme community leverages the GeoPlatform to increase community membership and facilitate dataset management and communication across the theme.</p> <p><b>Anticipated Outcomes:</b> The Geospatial Platform (GeoPlatform) supports new and innovative web mapping services and tools, shared applications, visualization, and continuing improvements to geospatial data to increase use by all tribal governments, federal agencies, state, county, and local governments, academia, and the public.</p> <p><b>Agencies, Bureaus, and Offices Involved:</b> Theme Lead, NBG Lead, FLWG Lead, and the Tribal Boundaries Workgroup Lead</p>				
Actions	Milestones	Performance Indicators	Action Responsibility	Projected Completion Date (FY)
<p><b>3.5.1.</b> The Governmental Units Theme will develop and maintain both public and private webpages for all established working groups within the theme (i.e. Tribal Boundaries Working Group and Federal Lands Working Group) on the GeoPlatform.</p> <p><b>3.5.2.</b> Encourage and support all working group members to establish GeoPlatform accounts. Ensure that members have the appropriate level of access to the webpages on the GeoPlatform.</p>	<p>All webpages published and up-to-date.</p> <p>All current group members contacted.</p> <p>All group members with accounts have correct level of access.</p>	<p>Number of webpages published and up-to-date.</p> <p>Number of group members contacted.</p> <p>Number of accounts with correct level of access.</p>	<p>Theme Lead</p> <p>Theme Lead</p> <p>Theme Lead</p>	<p>Q2 and Q4 each year</p> <p>FY21-Q4</p> <p>FY21-Q4</p>
<b>Agency and/or Stakeholder</b>		<b>Activities Through FY19-Q4</b>		
Theme Lead	<b>3.5.1.</b> There are currently 8 webpages published and up-to-date.			
Theme Lead	<b>3.5.2.</b> Working group members have been encouraged to establish GeoPlatform accounts through outreach activities.			

**Appendix 1: Geographic Programs Timeline (Census Bureau)**

Fiscal Year (FY)	2015				2016				2017				2018				2019				2020				2021				2022			
Quarter	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Partnership Programs	BAS 17												BAS 18				BAS 19				BAS 20				BAS 21							
	SDRP 2015-2016												SDRP 2017				SDRP 2018				SDRP 2019				SDRP 2020				SDRP 2021			
	Boundary Quality Assessment and Reconciliation Project (BQARP)																								PUMA							
																	PSAP															
	Block Boundary Suggestion Project (BBSP)								Redistricting/Voting District Boundaries (VTD)																							
Delineation Programs																	Metropolitan Statistical Area/Micropolitan Statistical Area				ZCTA											
																	2020 Tab Blocks				Urban Areas											
Geographic Data Processing																					GARP											
Support Programs	Geographic Programs Support Desk & GUPS Support																															
Fiscal Year (FY)	2015				2016				2017				2018				2019				2020				2021				2022			
Quarter	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4

## Appendix 2: Glossary of Terms and Acronyms

ACRONYM	MEANING
ACS	American Community Survey
AIANNH	American Indian/Alaska Native/Native Hawaiian
ANRC	Alaska Native Regional Corporation
API	Application Program Interface
BAS	Boundary and Annexation Survey
BBSP	Block Boundary Suggestion Project
BGN	Board on Geographic Names
BIA	Bureau of Indian Affairs
BLM	Bureau of Land Management
BOEM	Bureau of Ocean Energy Management
BQARP	Boundary Quality Assessment and Reconciliation Project
BVP	Boundary Validation Program
CCD	Census County Division
CDBG	Community Development Block Grant
CDP	Census Designated Place
CRVRDO	Census Redistricting and Voting Rights Data Office
CSDGM	Content Standard for Digital Geospatial Metadata
DLG	Digital Line Graph
DoD	Department of Defense
DOI	Department of Interior
EPA	Environmental Protection Agency
FEMA	Federal Emergency Management Agency
FGDC	Federal Geographic Data Committee
FLWG	Federal Lands Working Subgroup
FTE	Full-time equivalent
FWS	Fish and Wildlife Service

<b>ACRONYM</b>	<b>MEANING</b>
FY	Fiscal Year
GARP	Geographic Area Reconciliation Project
GIS	geographic information system
GUPS	Geographic Update Partnership Software
HUD	Housing and Urban Development
IBC	International Boundary Commission
IBWC	International Boundary and Water Commission
ISO	International Organization for Standardization
JSON	JavaScript Object Notation
LMA	Lifecycle Maturity Assessment
LARs	Land Area Representations
MAF/TIGER	Master Address File/Topologically Integrated Geographic Encoding and Reference System
MOU	memorandum of understanding
MTDB	MAF/TIGER Database
NBG	National Boundaries Group
NCES	National Center for Education Statistics
NECTA	New England City and Town Area
NGDA	National Geospatial Data Asset
NOAA	National Oceanic and Atmospheric Administration
NRCS	Natural Resources Conservation Service
NPS	National Park Service
OMB	Office of Management and Budget
PAD-US	Protected Areas Database of the United States
PCOB	Partnership Communications and Outreach Branch
PEP	Population Estimates Program
PLSS	Public Land Survey System
PSAP	Participant Statistical Areas Program
PUMA	Public Use Microdata Area
Q1, Q2, Q3, Q4	First, Second, Third, and Fourth Quarters of the Fiscal Year

<b>ACRONYM</b>	<b>MEANING</b>
RDP	Redistricting Data Program
REST	Representational State Transfer
SDRP	School District Review Program
SEHSD	Social, Economic & Housing Statistics Division
SLD	State Legislative District
TBD	to be determined
TIGER	Topologically Integrated Geographic Encoding and Reference System
TSAP	Tribal Statistical Areas Program
URL	Uniform Resource Locator
U.S.	United States
USDA	United States Department of Agriculture
USFS	United States Forest Service
USGS	United States Geological Survey
WFO	Weather Forecast Office
WFS	Web Feature Service
WMS	Web Mapping Services
VTD	Voting District
VTDP	Voting District Project
ZCTA	ZIP Code Tabulation Area
ZIP	Zone Improvement Plan