



# **2020 Census**

## **April 2016**

### **Monthly Status Report**

All information in this report is as of April 30,  
unless otherwise stated in the title of the page.

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## Key Program Updates

1. The following reports were released through the 2020 Census Memorandum Series:
  - a. 2014 Census Test: Analysis of Administrative Records Usage
  - b. 2015 Address Validation Test
2. In support of the 2016 Census Test:
  - a. The third mailing (reminder postcards to non-respondents) was completed on April 4, 2016, as scheduled. The fourth mailing (questionnaires to non-respondents) was completed on April 11, 2016, as scheduled.
  - b. Paper data capture using the integrated Computer Assisted Data Entry (iCADE) paper data capture system began on April 7, 2016, as scheduled.
  - c. As of the end of April 2016, there were 230 Partners in Los Angeles County, California and 210 Partners in Harris County, Texas. These Partners had committed to 429 Activities in Los Angeles County, California and 222 Activities in Harris County, Texas.
  - d. Recruiting successfully reached 100 percent of the recruiting goals in both test sites.
  - e. Training for Local Supervisors of Operations (LSOs) and enumerators is underway.
  - f. Significant rainfall and resulting flooding in Harris County, Texas resulted in the closure of the Area Operations Support Center (AOSC) on Monday, April 18, 2016. The AOSC re-opened on Tuesday, April 19, 2016. No damage to the AOSC from the rainfall or flooding was reported. No challenges in the conduct of the 2016 Census Test in Harris County, Texas are expected as a result of the flooding.
3. At the 2020 Census Program Management Review on April 12, 2016:
  - a. The two test sites for the Address Canvassing Test were announced. They are Buncombe County, North Carolina and St. Louis, Missouri.
  - b. The two test sites for the 2017 Census Test were announced. They are the Colville Reservation and Off-Reservation Trust Lands in Washington State and the Standing Rock Indian Reservation in North and South Dakota. Additionally, there will be a national sample of approximately 80,000 housing units.
  - c. The test sites for the 2017 Puerto Rico Census Test were announced. The test sites selected include the Carolina, Loiza and Trujillo Alto municipios.
4. The Systems Engineering and Integration team delivered the 2020 Census Enterprise Architecture and Infrastructure Transition Plan.
5. In support of the Geographic Programs operation, the Basic Collection Unit (BCU) delineation for the Address Canvassing Test is complete.
6. In-Office Address Canvassing Active Block Resolution production began at Headquarters on April 19, 2016.
7. The MAF Coverage Study began listing the 18,500 tabulation blocks selected for Fiscal Year 2016. As of April 29, 2016, the MAF Coverage Study Field Representatives have completed 5,290 of the 18,500 tabulation block assignments.
8. In support of the 2020 Census Redistricting Data Program (RDP):
  - a. The 2020 Census RDP kick-off meetings continued with meetings in Santa Fe, New Mexico; Concord, New Hampshire; Helena, Montana; Boise, Idaho; Trenton, New Jersey; and, Topeka, Kansas.
  - b. The 2020 Census RDP liaisons are all identified giving the program 100 percent coverage for the 50 states, the District of Columbia, and Puerto Rico.

# Status of Major Tests

## 2014 Census Test

### Description

The 2014 Census Test tested self-response and nonresponse followup field components to obtain results needed to answer research questions and inform preliminary design decisions for the 2020 Census. The scope of the Test included: self-response modes (including Internet); contact strategies for our pre-registration tool, “Notify Me”; utilization of email and automated voice invitations to encourage self-response; testing of the mobile devices for nonresponse followup enumeration in the field; testing of alternative contact strategies (telephone or personal visit) for non-responders; using administrative records to remove cases from the nonresponse followup workload; and applying adaptive design methodologies in managing the way field enumerators are assigned their work. The Census Bureau also conducted focus groups to examine reactions to the alternate contacts, response options, administrative record use, and privacy or confidentiality concerns (including how the Census Bureau might address these concerns through micro- or macro-messaging). The 2014 Census Test took place from June to September 2014 in portions of Northwest Washington, D.C. and Montgomery County, Maryland.

### Milestone Dates

Conduct “Notify Me” – June 5-13, 2014 (completed)  
Began Self-Response Data Collection – June 23, 2014 (completed)  
Census Day – July 1, 2014 (completed)  
Send Self-Response Reminder Notifications – July 1, 2014 and July 8, 2014 (completed)  
Send Final Reminders with Paper Questionnaire Booklets – July 15, 2014 (completed)  
Conduct Nonresponse Followup (NRFU) – August 14, 2014 - September 25, 2014 (completed)  
Complete Data Collection – September 25, 2014 (completed)  
Finalize 2014 Census Test Analysis Reports – Quarter 3 of Fiscal Year 2016 (on a flow basis)\*

### Summary of Activities (last 30 days)

The “2014 Census Test: Analysis of Administrative Records Usage” report was formally released through the 2020 Census Memorandum Series.

The only remaining activity for this Test is to release analysis reports. The following 2014 Census Test analysis reports have begun executive-level clearance:

- a. NRFU Panel Comparison and Instrument Analysis
- b. Optimizing Self-Response and Content Research
- c. Analysis of Non-ID Processing Results

The following reports are being finalized for final executive-level clearance:

- a. Contact Frame Report
- b. Test Overview Report

### Look Ahead (next 60 days)

1. Complete final executive-level clearance and issue reports via the 2020 Census Memorandum Series.

\* Although issuance of the 2014 Census Test analysis reports was delayed to allow staff to focus on 2016 Census Test preparation, all outstanding 2014 Census Test analysis reports are currently in various stages of the clearance process.

## **2015 Optimizing Self-Response Test**

### **Description**

The 2015 Optimizing Self-Response Test was critical for assessing ways to maximize self-response for the 2020 Census. The scope of the Test included: testing self-response modes (including Internet, paper and telephone); contact strategies for our pre-registration tool, “Notify Me”; use of digital, targeted advertising methods to increase awareness and engagement, promoting the “Notify Me” and Non-ID response options, and encouraging participation in the Test; real-time processing of Non-ID cases; and optimization of the Internet data collection application for mobile devices. Data collection for the 2015 Optimizing Self-Response Test took place from February through May 2015 in the Savannah, Georgia, designated media market area (including several counties in South Carolina).

### **Milestone Dates**

Federal Register Pre-Submission Notice Published – August 27, 2014 (completed)  
OMB (Paperwork Reduction Act) Clearance Package – Submit by December 2, 2014 (completed late on December 23)  
OMB Clearance Package Approved – February 17, 2015 (completed)  
Send “Notify Me” Post Card – February 20, 2015 (completed late on February 23)  
Begin “Notify Me” – February 23, 2015 (completed)  
Send Self-Response Letter/Post Card/Email Instructions – March 20, 2015 (completed)  
Begin Self-Response Data Collection – March 23, 2015 (completed)  
Send Self-Response First Reminder – March 27, 2015 (completed)  
Conduct Wave 1 Automated Telephone Calls – March 30-April 1, 2015 (completed)  
Census Day – April 1, 2015 (and postcard reminder) (completed)  
Send Self-Response Second Reminder – April 1-7, 2015 (completed)  
Send Final Reminders with Paper Questionnaire Booklets – April 7-14, 2015 (completed)  
Conduct Nonrespondent Focus Groups – May 4-7, 2015 (completed)  
Mail Postcard Invitation to Previously Non-sampled Households – May 18, 2015 (completed)  
Conduct Wave 2 Automated Telephone Calls – May 18-20, 2015 (completed)  
Complete Data Collection (related to primary test objectives) – May 31<sup>1</sup> (completed)  
Complete Internet Data Collection – June 26, 2015 (completed early on June 23)  
Conduct Reinterview Activities – July 15-August 7, 2015 (completed)  
Release All Research and Analysis Reports – Quarter 3 of Fiscal Year 2016 (on a flow basis)

### **Summary of Activities (last 30 days)**

Staff continued development of 2015 Optimizing Self-Response Test Results report. Additionally, staff completed critical review of the report analyzing the results of Non-ID Processing that occurred during the Test.

### **Look Ahead (next 60 days)**

1. Finalize 2015 Optimizing Self-Response Test Results report.
2. Finalize Non-ID Processing report.

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<sup>1</sup> Data collection for the analysis of real time Non-ID Processing and the use of digital, targeted advertising methods to increase awareness and engagement ended May 31.

## 2015 Census Test

### Description

The 2015 Census Test was critical for assessing the feasibility of fully utilizing a field operations management system that leverages planned 2020 Census automation and available near real-time operational data, as well as data households have already provided to the government, to transform the efficiency and effectiveness of data collection operations. The scope of the Test included: testing the use of administrative records to reduce and manage fieldwork; operational implementation of the Bring Your Own Device option for enumerators; use of automated training for enumerators and managers; testing and implementing routing and/or navigation; and the use of a reengineered approach to case management. The Test used two operating systems—the Research and Testing Operations Control System (RTOCS) for tracking fieldwork for the control panel, and MOJO Operational Control System for Reengineered Field Operations for the two experimental panels. The Test also allowed us to begin examining such things as how our regional offices can remotely manage local office operations in an automated environment, the extent to which enumerator and manager interactions can occur without daily face-to-face meetings, and revised field staffing ratios. Data collection for the 2015 Census Test took place from March to August 2015 in Maricopa County, Arizona.

### Milestone Dates

Federal Register Pre-Submission Notice Published – September 2, 2014 (completed)  
OMB (Paperwork Reduction Act) Clearance Package – Submit by December 2, 2014 (completed late on December 23)  
Local Census Office (LCO) Open – January 26, 2015 (completed)  
OMB Clearance Package Approved – February 17, 2015 (completed)  
Systems Readiness Complete for Optimizing Self-Response (OSR) Systems – March 13, 2015 (completed)  
Send Self-Response Letter and Instructions – March 20, 2015 (completed late on March 23)  
Begin Self-Response Data Collection – March 23, 2015 (completed)  
Send Self-Response First Reminder – March 27, 2015 (completed)  
Census Day – April 1, 2015 (and postcard reminder) (completed)  
Send Self-Response Second Reminder – April 1-7, 2015 (completed)  
Complete Systems Readiness for Nonresponse Followup (NRFU) Systems – April 15, 2015 (completed – all systems are ready)  
Send Final Reminders with Paper Questionnaire Booklets – April 8-14, 2015 (completed)  
Begin NRFU – May 14, 2015 (completed)  
Begin Field Staff Focus Groups – June 11, 2015 (completed)  
Conduct Bring Your Own Device (BYOD) Enumeration – June 15-27, 2015 (completed)  
End NRFU – June 26, 2015 (completed early on June 23)  
Conduct Evaluation Followup (EFU) – July 20-August 14, 2015 (completed early on August 12)  
Conduct Respondent Focus Groups – July 20-23, 2015 (completed early July 13-16)  
Release All Research and Analysis Reports – Quarter 4 of Fiscal Year 2016 (on a flow basis)

## 2015 Census Test

### **Summary of Activities (last 30 days)**

The “2015 Address Validation Test” report was formally released through the 2020 Census Memorandum Series.

Staff continued development of research and analysis reports for the 2015 Census Test. These reports include:

- a. 2015 Census Test: Overview Report
- b. Nonresponse Evaluation Followup Analysis Report
- c. ROCKiT Experimental Panel Test Results
- d. Analysis of Administrative Records Usage
- e. Adaptive Design
- f. Imputation Research

Additionally, staff completed critical review of the report analyzing the results of Non-ID Processing that occurred during the Test.

### **Look Ahead (next 60 days)**

1. Continue writing drafts of the research and analysis reports.
2. Finalize the Non-ID Processing report.

## 2015 National Content Test

### Description

The 2015 National Content Test (NCT) used a nationally representative sample of approximately 1.2 million households to evaluate and compare different census content, and to test different contact strategies for optimizing self-response. The scope of the Test included: content testing for questions on Race and Hispanic origin (e.g., combining Race and Hispanic origin into a single question vs. using separate questions, introduction of a Middle Eastern North African category), relationship (introduction of same-sex relationship categories), and within-household coverage (streamlined approach for ensuring accurate within-household coverage); continued testing of self-response modes and contact strategies (timing of invitations/notifications, targeted mail strategies to address the differences in Internet access based on demographics and regions, and optimization of the Internet data collection application for mobile devices. The Test also included a reinterview (of a subsample of respondents) to further assess the accuracy and reliability of the question alternatives for race, Hispanic origin, and within-household coverage. The 2015 NCT used a nationally representative sample to test various versions of questions that may appear on the 2020 Census and future American Community Survey questionnaires. Data collection for the 2015 NCT took place from August to December 2015.

### Milestone Dates

Federal Register Pre-Submission Notice Published – December 2, 2014 (completed)  
OMB (Paperwork Reduction Act) Clearance Package – Submit to OMB by April 15, 2015 (completed – posted in Federal Register on May 22)  
OMB Clearance Package – Receive OMB approval by June 23, 2015 (completed)  
Send Paper Questionnaire Booklets – August 20-September 22, 2015 (varies by panel – 11 total) (completed)  
Begin Self-Response Data Collection – August 24, 2015 (completed)  
Send Self-Response First Reminders – August 27 and August 31, 2015 (varies by panel – 11 total) (completed)  
Census Day – September 1, 2015 (completed)  
Send Additional Reminder Notifications – August 27-September 22, 2015 (varies by panel – 11 total) (completed)  
Complete Data Collection – October 30, 2015 (completed)  
Complete Reinterview – December 14, 2015 (completed) (originally scheduled for November 25)\*  
Complete Research and Analysis Reports – December 30, 2016

### Summary of Activities (last 30 days)

Staff completed post-data collection analyses, and post-processing, including coding and editing of race/ethnicity data.

Staff provided an update on the 2015 NCT preliminary response rates, and an overview of the race and ethnicity research/evaluation study plan, at the 2020 Census Program Management Review on April 12, 2016.

\* Reinterview operations were extended to increase the number of completed cases for the purpose of statistical analyses.

## 2015 National Content Test

### **Summary of Activities (last 30 days) cont'd**

Staff discussed comments and feedback on the 2015 NCT race and ethnicity research/evaluation study plan with: the Census Scientific Advisory Committee on April 14, 2016; with the National Advisory Committee on Racial, Ethnic, and Other Populations on April 21, 2016; and with other key external stakeholders on April 27, 2016.

Staff briefed the House Oversight Committee staff on the 2015 NCT race and ethnicity research on April 27, 2016.

Staff briefed the Leadership Conference on Civil Rights Census Task Force on the 2015 NCT race and ethnicity research on April 28, 2016.

### **Look Ahead (next 60 days)**

1. Finalize study plans for analyses on relationship, optimizing self-response, and race and ethnicity.
2. Continue data analyses on all reports.
3. Send draft of analysis reports on relationship and optimizing self-response to internal reviewers.
4. Deliver initial draft analysis report on Non-ID Processing results from the Test to internal reviewers.
5. Continue engagement with advisory and external groups on the race and ethnicity study plan and analyses.

## 2016 Census Test

### Description

The 2016 Census Test is an operational study of both self-response and nonresponse followup procedures. The self-response objectives include testing the provision of language support to limited English proficient populations, testing the ability to reach demographically diverse populations, and refining Real-Time Non-ID Processing (RTNP) methods.

The nonresponse followup objectives include the following strategies: the use of administrative records and third-party data to reduce cost while maintaining quality; reengineering field operations using models to reduce travel time and determine the best time for the enumerator to contact the respondent; and streamlining the staffing and supervisory structure.

Systems testing includes the use of a Census server-based infrastructure\* to support self-response and Non-ID Processing (for those responses where the Census ID is not used), and to measure the systems' abilities to manage a significant number of concurrent users. Also, this Test is utilizing CEDCaP systems (Control and Response Data System and the Multimode Operational Control System) for the first time in support of response processing operations. Data collection for the 2016 Census Test began in March and will continue through August 2016 in Los Angeles County, California and Harris County, Texas.

### Milestone Dates

2016 Site Selection Announcement – June 26, 2015 (completed)

Federal Register Pre-Submission Notice Published – August 4, 2015 (completed/published)

Receive OMB Approval – January 12, 2016 (approval received January 14, 2016)

Open Regional Census Centers (RCCs) – September 24, 2015 (completed/opened RCCs)

Conduct Recruiting – October 2015 – April 2016 (Began on November 2, 2015)

Open Area Operations Support Centers (AOSCs) – January 2016 (Houston, TX AOSC opened January 25, 2016; Los Angeles, CA AOSC opened February 3, 2016 (originally scheduled for February 1, 2016)) (completed)

Conduct 2016 Census Test – March - July 2016

Begin Self-Response Data Collection – March 2016 (Began March 21, 2016)

Mail Initial Invitation Letters and Questionnaires – March 2016 (Completed March 21, 2016)

Launch Internet Self-Response Data Collection Application – March 2016 (Completed March 21, 2016)

Mail first reminder letter or postcard to housing units – March 2016 (Completed March 24, 2016)

Census Day – April 1, 2016 (completed)

Conduct Field Staff Training – April - May 2016 (Began April 11, 2016)

Begin Nonresponse Followup (NRFU) – May 2016

Complete Research and Analysis Reports – Quarter 2 of Fiscal Year 2017

\* On March 9, 2016, Decennial Management determined that the Cloud implementation of Internet data collection system (PRIMUS) and RTNP would not be utilized for the 2016 Census Test. PRIMUS/RTNP will instead use a server-based solution.

## 2016 Census Test

### Summary of Activities (last 30 Days)

#### *Self-Response*

The third mailing (reminder postcards to non-respondents) was completed on April 4, 2016, as scheduled. The fourth mailing (questionnaires to non-respondents) was completed on April 11, 2016, as scheduled.

Paper data capture using the integrated Computer Assisted Data Entry (iCADE) paper data capture system began on April 7, 2016, as scheduled.

#### *Integrated Partnership and Communications (IPC)*

As of the end of April 2016, there were 230 Partners in Los Angeles County, California and 210 Partners in Harris County, Texas. These Partners had committed to 429 Activities in Los Angeles County, California and 222 Activities in Harris County, Texas. Partnership staff provided assistance to respondents, at a variety of locations, for example, community centers, with completing the online questionnaire; created flyers to promote questionnaire assistance; and conducted Chinese and Korean media conferences to promote participation in the Test.

#### *Non-ID Processing*

Non-ID Processing has performed automated address matching and census block geocoding for all responses to date which lack a Census ID. In addition, interactive matching and geocoding is complete for all Non-ID responses received so far which were not successfully matched and/or geocoded during automated processing. Staff delivered the sample universe for the operation to recollect interview data for approximately 4,400 Non-ID responses from both test sites.

#### *Nonresponse Followup*

Round three of integration testing between the Census Operations Mobile Platform for Adaptive Services and Solutions (COMPASS) and the Census Bureau's Operational Control System for Reengineered Field Operations (MOJO) systems began on March 30, 2016 and was completed on April 8, 2016. User acceptance testing started on April 13, 2016, and was completed on April 25, 2016.

A production and training version of COMPASS was successfully deployed to the field on April 26, 2016.

Production releases of the Multimode Operational Control System (MOCS) and MOJO were successfully deployed.

Staffing for the 2016 Census Test is on track. Recruiting successfully reached 100 percent of the recruiting goals in both test sites. Efforts to hire and train staff are underway. The Learning Management System team received an Authority to Test (ATT) for the Test. Automated training for Local Supervisors of Operations (LSOs) and enumerators went live on March 28, 2016.

## 2016 Census Test

### **Summary of Activities (last 30 Days) cont'd**

#### *Nonresponse Followup cont'd*

Online training for LSOs and enumerators began on April 11, 2016 in both test sites. Training of Field Managers of Operations (FMOs) occurred the week of April 17, 2016. Classroom training for LSOs and enumerators in Los Angeles County, California took place April 26-28, 2016 and classroom training for LSOs in Harris County, Texas took place April 27-29, 2016.

Significant rainfall and resulting flooding in Harris County, Texas resulted in the closure of the AOSC on Monday, April 18, 2016. The AOSC re-opened on Tuesday, April 19, 2016. No damage to the AOSC from the rainfall or flooding was reported. No challenges in the conduct of the 2016 Census Test in Harris County, Texas are expected as a result of the flooding.

The initial universe for the NRFU universe was created and subsampling was performed.

#### *Decennial Service Center*

The Decennial Service Center (DSC) for the 2016 Census Test remains open and will continue to provide customer support 7 days per week, from 9am to 12am.

#### *Decennial Logistics Management*

The Decennial Logistics Management team and staff at the National Processing Center (NPC) are utilizing the Integrated Logistics Management System (ILMS) to link activities for planning and creation to final receipt of materials at the AOSCs in the test sites. The project delivered recruiting, administration/payroll training kits, and expendable supplies to both test sites on schedule in preparation for subsequent management and operational trainings.

#### *IT Infrastructure*

The Field Office IT Deployment team has completed work with the Houston and Los Angeles Area Operation Support Centers (AOSCs). The Mobile team verified that decennial Device as a Service (dDaaS) vendor has configured all mobile devices for 2016 Census Test NRFU operations and that they have been received in the Los Angeles and Houston offices.

### **Look Ahead (next 60 Days)**

#### *Self-Response*

1. Continue self-response data collection.
2. Perform initial review of Non-ID analysis datasets generated from 2016 Census Test self-response.

#### *Paper Data Capture*

1. Continue paper data capture operations at the NPC using the iCADE system.

## 2016 Census Test

### **Look Ahead (next 60 Days) cont'd**

#### *Integrated Partnership and Communications*

1. Continue to engage in partnership efforts, primarily for Chinese, Korean, and Spanish Partners.
2. Continue social media presence to motivate self-response.
3. Conduct activities for the Integrated Partnership and Communications operation and shutdown of partnership and communications activities.

#### *Non-ID Processing*

1. Monitor and track progress of Non-ID response data for the Test.
2. Continue monitoring Non-ID Processing results and perform quality assurance checks for the Test through the end of self-response.

#### *Nonresponse Followup and Reinterviews*

1. Conclude integration and user acceptance testing between all 2016 Census Test NRFU production systems to support data collected via COMPASS, verify that these data are output correctly, and validate the functionality of operational business rules.
2. Conduct administrative records modeling processes to identify potential cases that can be removed from the NRFU workload.
3. Begin conducting NRFU interviews in the field.
4. Deploy management and operational reports to communicate NRFU progress.
5. Begin telephone reinterviews to evaluate the coverage questions.

#### *Decennial Service Center*

1. Further expand the support coverage of the DSC from five to seven days per week, with extended hours of operation from 9am to 2am.

#### *Field Infrastructure*

1. Onboard enumerators at both test sites.
2. Conduct background investigations on approximately 1,400 new hires.
3. Conduct replacement enumerator online training for both test sites.
4. Conduct classroom training for regular and replacement enumerators in both test sites.

#### *Decennial Logistics Management*

1. Deliver NRFU materials to the two test sites.

## **Address Canvassing Test**

### **Description**

The Address Canvassing Test will focus on the following: (1) measuring the effectiveness of In-Office Address Canvassing through In-Field Address Canvassing; (2) measuring the effectiveness of In-Field Address Canvassing; and (3) understanding the implications of moving from Assignment Area (a grouping of blocks) to Basic Collection Unit (BCU), which encompass the characteristics of both collection blocks and assignment areas.

The Address Canvassing Test will include In-Office Address Canvassing and In-Field Address Canvassing. The In-Office Address Canvassing will execute the Interactive Review and Active Block Resolution activities at the National Processing Center. The In-Field Address Canvassing activity will be full block listing of all living quarters. Both In-Office Address Canvassing and In-Field Address Canvassing will be based on the same input data (i.e., MAF and TIGER) and will be completed in time to compare the results from both activities to one another.

This Test will occur in two sites. The sites will include a variety of living quarters and address types (i.e., city-style addresses, non city-style addresses, and location descriptions). Census Field Representatives will be hired to conduct In-Field Address Canvassing. All management and oversight activities will occur out of the Census Bureau's Regional Offices.

### **Milestone Dates**

Federal Register Pre-Submission Notice Published – March 16, 2016 (published/completed on March 23, 2016)

Receive OMB Approval – August 10, 2016

Conduct In-Office Address Canvassing Data Collection – July 18, 2016

Begin Field Management Training – August 29, 2016

Begin Field Supervisor Training – September 12, 2016

Begin Field Representative Training – September 26, 2016

Conduct In-Field Address Canvassing Data Collection – October 3-November 15, 2016

Conduct In-Field Address Canvassing Re-Listing Data Collection – November 16-December 14, 2016

Release Address Canvassing Test Analysis Report – April 29, 2017

### **Summary of Activities (last 30 Days)**

The two test sites for the Address Canvassing Test were announced at the 2020 Census Program Management Review on April 12, 2016. The two test sites are Buncombe County, North Carolina and St. Louis, Missouri.

### **Look Ahead (next 60 Days)**

1. Finalize the Address Canvassing Test Plan, which describes the design and management of the Address Canvassing Test.
2. Finalize the Address Canvassing Study Plan, which details the questions to be answered by the Address Canvassing Test as well as the methodology and data requirements necessary to answer those questions.

## **Address Canvassing Test**

### **Look Ahead (next 60 Days) cont'd**

3. Release the OMB Full Package for the Address Canvassing Test to the Department of Commerce.

## 2017 Census Test

### **Description**

The 2017 Census Test is both a site test on tribal lands and a nationwide self-response test. It will allow the Census Bureau to test the feasibility of collecting tribal enrollment information. It will also refine our methods for enumerating areas with unique location characteristics, where we cannot mail to a street address. In addition to tribal areas, the test will oversample areas with relatively high populations of American Indians and Alaska Natives as a mechanism for testing potential tribal enrollment questions nationwide.

The 2017 Census Test will also allow the Census Bureau to test the integration of systems for the Update Enumerate operation. Update Enumerate is a data collection operation where census field staff visit households to update the list of addresses and count the people at each address. This operation typically occurs in areas where there is a low likelihood of mail delivery, American Indian Reservations, and communities with very small populations.

The Test will take place on two American Indian areas — the Colville Indian Reservation and Off-Reservation Trust Land in Washington and the Standing Rock Indian Reservation in North Dakota and South Dakota. The Census Bureau is working with the tribal governments in these two American Indian areas to conduct this test. Approximately 3,500 and 2,900 housing units, respectively, within the areas will participate.

### **Milestone Dates**

OMB Pre-submission in Federal Register – July 26, 2016

Open Regional Census Centers (RCCs) – September 1, 2016

Begin Recruiting RAs and Office Staff – September 1, 2016

Full Package to OMB – October 28, 2016

Begin Recruiting Field Staff – December 1, 2016

OMB Approval – December 30, 2016

Begin Census Questionnaire Assistance (CQA) – March 15, 2017

Census Day – April 1, 2017

Conduct Update Enumerate (UE) – April 17-May 26, 2017

Conduct UE Reinterview – April 20- July 21, 2017

Conduct UE Followup – May 15-July 17, 2017

### **Summary of Activities (last 30 Days)**

The two test sites for the 2017 Census Test were announced at the 2020 Census Program Management Review on April 12, 2016. The two test sites are the Colville Reservation and Off-Reservation Trust Lands in Washington State and the Standing Rock Indian Reservation in North and South Dakota.

### *Program Management*

The Integrated Master Schedule for the Test was baselined on April 29, 2016.

## 2017 Census Test

### **Summary of Activities (last 30 Days) cont'd**

#### *Integrated Partnership and Communications*

Kickoff meetings were held and Fact Sheets and FAQs were developed and produced for the Test. Additionally, the following project management documents were baselined:

- Schedule
- Business Process Model
- Requirements
- Budget

#### *Internet Self-Response (ISR)*

Staff began working with stakeholders and developers to begin agile development of the Primus instrument for the Test. Additionally, the ISR Integrated Project Team (IPT) is working with stakeholders to finalize the mailing strategy and timing for the Test.

#### *Non-ID Processing*

Staff completed updates to capability requirements and the Business Process Model for the Test. Additionally, they assembled a detailed schedule for Non-ID Processing activities for the Test.

#### *Update Enumerate*

Staff developed the Update Enumerate (UE) Business Process Model (BPM) to define the operational flow and capability requirements for the Test.

#### *Content and Forms Design*

Staff drafted questionnaires for cognitive testing of possible tribal enrollment questions, as well as field materials for Update Enumerate.

#### *Response Processing*

The Response Processing IPT completed integrating the response processing components of the 2017 Census Test schedule.

### **Look Ahead (next 60 Days)**

#### *Program Management*

1. Finalize the 2017 Census Test Plan.

#### *Systems Engineering and Integration*

1. Conduct the Systems Requirements Review (SRR) for the Test. The Business Process Models (BPMs) and Requirements for the Test will be baselined after the SRR.

#### *Integrated Partnership and Communications*

1. Finalize and baseline the 2017 Census Test IPC Plan.
2. Develop recruitment materials and products.
3. Initiate development of promotional materials and products.

## 2017 Census Test

### **Look Ahead (next 60 Days) cont'd**

#### *Internet Self-Response*

1. Finalize the mailing strategy for the Test.
2. Begin development work on the Primus instrument with developers and stakeholders in support of the Test.

#### *Non-ID Processing*

1. Participate in planning work for Non-ID Processing during the Test.

#### *Update Enumerate*

1. Document detailed system requirements/user stories for the Test.

#### *Content and Forms Design*

1. Finalize questionnaires for cognitive testing of possible tribal enrollment questions, pending results of focus group research.

## **2017 Puerto Rico Census Test**

### **Description**

The 2017 Puerto Rico Census Test is a test conducted by the Census Bureau in preparation for the 2020 Census of Puerto Rico. The Census Bureau will test new technologies, operations and procedures to identify the most effective operations for counting residents in Puerto Rico. The Test will take place in three municipios within the San Juan metro area. Approximately 123,000 housing units within Carolina, Loíza and Trujillo Alto will participate.

### **Milestone Dates**

OMB Pre-submission – May 31, 2016  
Open New York Regional Census Center (RCC) – September 1, 2016  
Full package to OMB – September 2, 2016  
Conduct In-Office Address Canvassing – September 1-October 15, 2016  
OMB Approval – November 7, 2016  
Open Puerto Rico Area Census Office (ACO) – January 2, 2017  
Begin Recruiting Field Staff – January 2, 2017  
Begin In-Field Address Canvassing – February 21, 2017  
Begin Census Questionnaire Assistance (CQA) – March 15, 2017  
Begin Self-Response, Including Non-ID Processing – March 22, 2017  
Census Day – April 1, 2017  
Begin In-Field Address Canvassing Relisting – April 3, 2017  
Begin Update Enumerate (UE) – April 17, 2017  
Begin UE Reinterview – April 20, 2017  
Begin NRFU – May 12, 2017  
Begin NRFU Reinterview – May 13, 2017  
Begin UE Followup – May 15, 2017

### **Summary of Activities (last 30 Days)**

The test sites for the 2017 Puerto Rico Census Test were announced at the 2020 Census Program Management Review on April 12, 2016. The test sites selected include the Carolina, Loiza and Trujillo Alto municipios.

#### *Program Management*

The Integrated Master Schedule for the Test was baselined on April 29, 2016.

#### *Integrated Partnership and Communications*

On April 14, 2016, the 2017 Puerto Rico Census Test Integrated Partnership and Communications (IPC) team held its kickoff meeting. The purpose of the 2017 Puerto Rico Census Test IPC team is to manage and coordinate the partnership and communications activities related to the Test.

## 2017 Puerto Rico Census Test

### **Summary of Activities (last 30 Days) cont'd**

#### *Integrated Partnership and Communications cont'd*

Fact Sheets and FAQs were developed and produced for the Test. Additionally, the following project management documents were baselined:

- Schedule
- Business Process Model
- Requirements
- Budget

#### *Internet Self-Response (ISR)*

Staff began working with stakeholders and developers to begin agile development of the Primus instrument for the Test. Additionally, the ISR Integrated Project Team (IPT) is working with stakeholders to finalize the mailing strategy and timing for the Test.

#### *Non-ID Processing*

Staff completed updates to capability requirements and the Business Process Model for the Test. Additionally, they assembled a detailed schedule for Non-ID Processing activities for the Test.

#### *Update Enumerate*

Staff developed the Update Enumerate (UE) Business Process Model (BPM) to define the operational flow and capability requirements for the Test.

#### *Response Processing*

The Response Processing IPT completed integrating the response processing components of the 2017 Puerto Rico Census Test schedule.

### **Look Ahead (next 60 Days)**

#### *Systems Engineering and Integration*

1. Conduct the Systems Requirements Review (SRR) for the Test. The Business Process Models (BPMs) and Requirements for the Test will be baselined after the SRR.

#### *Program Management*

1. Finalize the 2017 Puerto Rico Census Test Plan.
2. Publish the OMB Pre-submission to the Federal Register.

#### *Integrated Partnership and Communications*

1. Finalize and baseline the 2017 Puerto Rico Census Test IPC Plan.
2. Develop recruitment materials and products.
3. Initiate development of promotional materials and products.

## 2017 Puerto Rico Census Test

### Look Ahead (next 60 Days) cont'd

#### *Internet Self-Response*

1. Finalize the mailing strategy for the Test.
2. Begin development work on the Primus instrument with developers and stakeholders in support of the Test.

#### *Non-ID Processing*

1. Participate in planning work for Non-ID Processing during the Test.

#### *Update Enumerate*

1. Document detailed system requirements/user stories for the Test.

#### *Field Infrastructure*

1. Identify the Puerto Rico Area Census Office to support the Test and subsequent 2020 Decennial Operations as the Puerto Rico Area Census Office.

# Status of Major 2020 Census Operations

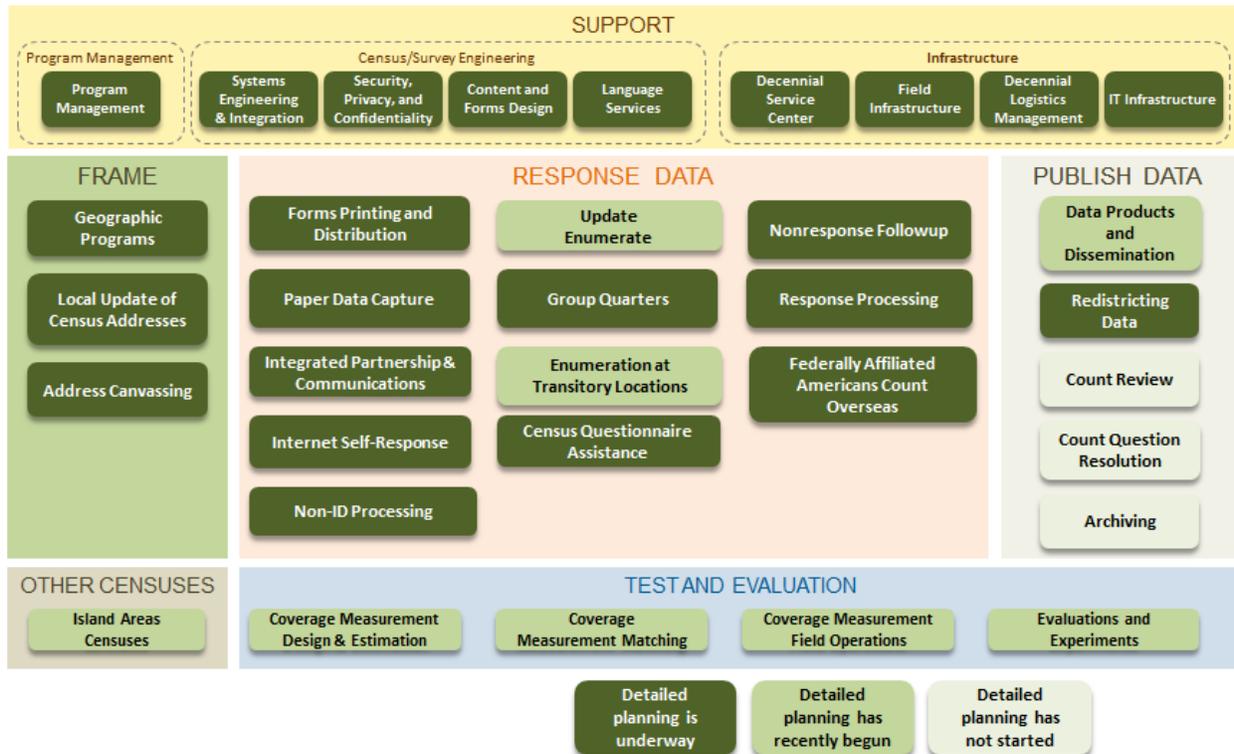
The 2020 Census includes 34 operations that are organized into eight major areas that correspond with the Census Bureau standard Work Breakdown Structure (WBS). The term operation refers to both support and business functions.

The status of these operations are reported on the following pages, which are organized by major area. Please note, only operations that are currently underway are discussed on the following pages.

Table 1 on the following pages describes all 34 operations as defined in the 2020 Census Operational Plan issued on October 6, 2015.

Completed or planned activities specifically supporting past or current tests are reported on the relevant Test page (pages 5-22). Otherwise, they are reported on the relevant 2020 Census Operations page (pages 27-38).

**Figure 1: Operational Overview by WBS**



**Table 1: 2020 Census Operations and Purpose**

Operations	Purpose
<b>Census/Survey Engineering</b>	
<b>Systems Engineering and Integration (SE&amp;I)</b>	Manage the delivery of a system of systems that meets the 2020 Census Program business and capability requirements. Implement and manage the full Enterprise Systems Development Life-cycle for systems supporting the 2020 Census.
<b>Security, Privacy, and Confidentiality</b>	Ensure that all operations and systems used in the 2020 Census adhere to the appropriate systems and data security, respondent, and employee privacy and confidentiality policies, and regulations.
<b>Content and Forms Design</b>	Identify, research, and finalize content and design of questionnaires and other non-questionnaire materials, ensure consistency across data collection modes and operations, and promote high response rates and accurate and consistent responses across modes.
<b>Language Services</b>	Assess and support language needs of non-English speaking populations for all modes and other mailing and field materials, determine the number of languages and level of support required, optimize non-English content, and ensure cultural relevancy and meaningful translation of non-English materials.
<b>Frame</b>	
<b>Geographic Programs</b>	Provide the geographic foundation in support of the 2020 Census data collection and tabulation activities, including delineation of boundaries in the Master Address File (MAF)/Topologically Integrated Geographic Encoding and Referencing (TIGER) System, delivery of address and spatial extracts from the MAF/TIGER System, and updates to the MAF/TIGER System.
<b>Local Update of Census Addresses (LUCA)</b>	Provide an opportunity for tribal, federal, state, and local governments to review and improve the address lists and maps used to conduct the 2020 Census as required by Public Law (P.L.) 103-430.
<b>Address Canvassing</b>	Deliver a complete and accurate address list and spatial database for enumeration and determine the type and address characteristics for each living quarter.
<b>Response Data</b>	
<b>Forms Printing and Distribution</b>	Print and distribute Internet invitations, reminder postcards, and questionnaire mailing packages to support the 2020 Census mailing strategy and enumeration of the population.
<b>Paper Data Capture</b>	Capture and convert data from the 2020 Census paper questionnaires, including document preparation, scanning, Optical Character Recognition, Optical Mark Recognition, Key from Image, editing, and checkout.
<b>Integrated Partnership and Communications (IPC)</b>	Communicate the importance of participating in the 2020 Census to the entire population of the 50 states, the District of Columbia, and Puerto Rico. Motivate people to self-respond, preferably via the Internet, and raise and keep awareness high throughout the entire 2020 Census.

Operations	Purpose
<b>Internet Self-Response</b>	Collect response data via the Internet to reduce paper and Nonresponse Followup and maximize online response to the 2020 Census via contact strategies and improved access for respondents.
<b>Non-ID Processing</b>	Make it easy for people to respond anytime, anywhere to increase self-response rates by providing response options that do not require a unique Census ID.
<b>Update Enumerate (UE)</b>	Update the address and feature data and enumerate housing units in certain designated geographic areas with special enumeration needs (e.g., areas that do not have city-style addresses and areas with unique challenges associated with accessibility).
<b>Group Quarters (GQ)</b>	Enumerate people living or staying in group quarters, people experiencing homelessness, and people receiving service at service based locations.
<b>Enumeration at Transitory Locations (ETL)</b>	Enumerate individuals in occupied units at transitory locations such as recreational vehicle parks, camp grounds, tent cities, racetracks, circuses, carnivals, marinas, hotels, and motels, who do not have a usual home elsewhere.
<b>Census Questionnaire Assistance (CQA)</b>	Provide questionnaire assistance for respondents by answering questions about specific items on the census form or other frequently asked questions about the 2020 Census and provide an option for callers to complete a census interview over the telephone.
<b>Nonresponse Followup (NRFU)</b>	Determine housing unit status for nonresponding addresses and enumerate housing units for which a census response was not received.
<b>Response Processing</b>	Establish the initial 2020 Census universe, assign the specific enumeration strategy for each census case based on case status and associated paradata, create and distribute workload files required for enumeration operations, track case enumeration status, and run post-data collection processing actions in preparation for producing the final 2020 Census results.
<b>Federally Affiliated Americans Count Overseas</b>	Obtain counts by home state of U.S. military and federal civilian employees stationed or deployed overseas and their dependents living with them.
<b>Publish Data</b>	
<b>Data Products and Dissemination</b>	Prepare and deliver the 2020 Census population counts to the President of the United States for Congressional apportionment, tabulate and disseminate 2020 Census data products for use by the states for redistricting, and tabulate and disseminate 2020 Census data for use by the public.
<b>Redistricting Data</b>	Provide to each state the legally required P.L. 94-171 redistricting data tabulations by the mandated deadline of one year from Census Day: April 1, 2021.
<b>Count Review</b>	Enhance the accuracy of the 2020 Census by implementing an efficient and equitable process for Federal-State Cooperative Population Estimates members to identify missing housing units and missing or geographically misallocated large group quarters.

<b>Operations</b>	<b>Purpose</b>
<b>Count Question Resolution (CQR)</b>	Provide a mechanism for governmental units to challenge their official 2020 Census results.
<b>Archiving</b>	Provide 2020 Census records deemed permanent, including files containing individual responses, to the National Archives and Records Administration for archiving and to the National Processing Center (NPC) to use as source materials to conduct the Age Search Service.
<b>Other Censuses</b>	
<b>Island Areas Censuses (IA)</b>	Update and enumerate all living quarters in the Pacific Island Area of American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, and the U.S. Virgin Islands, collectively known as the Island Areas.
<b>Test and Evaluation</b>	
<b>Coverage Measurement Design and Estimation</b>	Develop the survey design and sample for the post-enumeration survey for the 2020 Census. It also produces coverage error estimates and independent assessment of coverage via demographic analysis.
<b>Coverage Measurement Matching</b>	Identify matches and non-matches between the 2020 Census and the Census Coverage Measurement Survey for the enumerated housing units and people.
<b>Coverage Measurement Field Operations</b>	Collect person and housing unit information (independent from the 2020 Census operations) for the sample of housing units in the Census Coverage Measurement Survey.
<b>Evaluations and Experiments</b>	Measure the success of critical 2020 Census operations. Formulate and execute an experimentation program to support early planning and inform the transition and design of the 2030 Census.
<b>Infrastructure</b>	
<b>Decennial Service Center (DSC)</b>	Support 2020 Census Field Operations and handle all service requests initiated by field staff.
<b>Field Infrastructure</b>	Coordinate space acquisition for and lease management of the Regional Census Centers and field offices and provide the administrative infrastructure for data collection operations covering the 50 states, Washington, D.C., and Puerto Rico.
<b>Decennial Logistics Management</b>	Provide logistics management services to include procuring warehouse space, warehousing, inventory management, kit assembly, deployment of materials, and receiving and accessing materials.
<b>IT Infrastructure</b>	Provide the IT Infrastructure to support the 2020 Census, including enterprise systems and applications, 2020 Census-specific applications, field IT infrastructure, and mobile computing.
<b>Program Management</b>	
<b>Program Management</b>	Define and implement program management policies, processes, and the control functions for planning and implementing the 2020 Census.

## Census/Survey Engineering

### **Description**

Four operations support the Census/Survey Engineering area of the 2020 Census: Systems Engineering and Integration (SE&I); Security, Privacy, and Confidentiality; Content and Forms Design; and Language Services. For the description of these operations, please see Table 1.

### **Summary of Activities (last 30 days)**

The SE&I team delivered the 2020 Census Enterprise Architecture and Infrastructure Transition Plan.

Staff received the Geographic Partnership Support Desk external demand model for the Boundary and Annexation Survey (BAS) and the Onboarding external demand model for the Tests in 2017 and for the 2020 Census.

The SE&I team presented the preliminary 2020 Census Integration and Implementation Plan (IIP) to the Decennial Portfolio Management Governing Board (PMGB) on April 27, 2016 and circulated drafts of the 2020 Census System Engineering Management Plan (SEMP) and Test and Evaluation Management Plan (TEMP) for comment.

### **Look Ahead (next 60 days)**

#### *SE&I*

1. Present the 2020 Census Segment Architecture document to the Census IT Directorate Project Review (CIPR) Board on May 19, 2016.
2. Deliver internal demand models for data collection, frame development, MOCS, MOJO, NRFU, and paradata management. Deliver 2020 Census nonfunctional requirements.
3. Incorporate Scalability details into version 2 of the Transition Plan in advance of the 2018 End-to-End Test Critical Design Review.
4. Update Transition Plan and IIP with the results of the CEDCaP Analysis of Alternatives.

## Frame

### Description

Three operations support the frame area of the 2020 Census: Geographic Programs; Local Update of Census Addresses (LUCA); and Address Canvassing. For the description of these operations, please see Table 1.

### Summary of Activities (last 30 days)

The Geographic Programs team is refining the Type of Enumeration Area (TEA) criteria for the initial delineation. The Basic Collection Unit (BCU) delineation was started for the Initial BCU Delineation for the 2020 Census. The BCU delineation for the Address Canvassing Test is complete. Development of the 2020 schedule for the Participant Statistical Areas Program (PSAP) has started.

The LUCA Integrated Project Team (IPT) submitted 2020 Census Detailed Operational Plan for the LUCA Operation for management review. The IPT continued developing the detailed schedule for the 2020 LUCA Operation.

The LUCA IPT held a meeting at the National Processing Center (NPC) from April 19, 2016 through April 20, 2016 with staff from Headquarters, the NPC, and Field Division, including the Regional Office Geographers. The IPT members presented the high-level schedule and Business Process Model to the stakeholders as well as discussed the roles and responsibilities of the NPC and Field Division.

The Address Canvassing IPT began evaluation of commercial data (housing unit address and associated geographic coordinate files) through the review of metadata, and matching to the Master Address File (MAF). These commercial data were acquired through contract awards made to five address file vendors in September 2015.

In-Office Address Canvassing Interactive Review production continues at the NPC. The NPC clerks have reviewed 1,864,114 blocks during Interactive Review from the beginning of production in September 2015 through the end of April 2016. This process classifies the blocks into three categories:

- Passive = blocks that do not show signs of change and need no further review at this time
- Active = blocks that show signs of change and need to move to the next phase of In-Office Address Canvassing for further review
- On Hold = blocks that need new imagery to do the Interactive Review

Out of the 1,864,114 blocks reviewed during Interactive Review by the end of April 2016, 73.57 percent of the blocks were classified as Passive, 17.14 percent were classified as Active, and 9.29 percent were classified as On Hold.

## Frame

### **Summary of Activities (last 30 days) cont'd**

In-Office Address Canvassing Active Block Resolution production began at Headquarters on April 19, 2016. Active Block Resolution will be conducted at Headquarters to prove in the procedures and the operation will move to the NPC this summer. The Headquarters staff have reviewed 53 blocks from the beginning of production through the end of April 2016. This process classified the blocks into three categories:

- Resolved = blocks that were reviewed and all issues were resolved in the office
- Sent to Field = blocks that were reviewed but all of the issues were not resolved in the office
- On Hold = blocks that are undergoing construction and need update imagery or waiting for boundary changes to be made before reviewing the block.

Out of the 53 blocks reviewed during Active Block Resolution by the end of April 2016, 73.58 percent of the blocks were classified as Resolved, 9.44 percent were classified as Sent to Field, and 16.98 percent were classified as On Hold.

The MAF Coverage Study began listing the 18,500 tabulation blocks selected for Fiscal Year 2016. As of April 29, 2016, the MAF Coverage Study Field Representatives have completed 5,290 of the 18,500 tabulation block assignments. The Generic MAF/TIGER Clearance, which is expiring May 31, 2016, is being renewed. This clearance is used for the MAF Coverage Study and was published to the Federal Register Notice on April 20, 2016. The team began the process to select the sample for the 2017 MAF Coverage Study.

### **Look Ahead (next 60 days)**

#### *Geographic Programs*

1. Begin development of the following Detailed Operational Plans for the Geographic Programs Operation: (1) Geographic Delineations; (2) Geographic Partnership Programs; and (3) Geographic Data Processing.
2. Complete Batch BCU Delineation for Puerto Rico and the Island Areas for the 2020 Census.
3. Conduct Quality Control on the Batch BCU Delineation.
4. Finalize the Type of Enumeration Area (TEA) Delineation Requirements.
5. Develop/Test Batch TEA Delineation Software.
6. Begin Initial TEA Delineation for the 2020 Census (i.e., run software against the BCUs).
7. Finalize Area Census Office (ACO) Delineation Criteria.
8. Create an initial ACO delineation for the 2020 Census.

#### *LUCA*

1. Baseline the 2020 Census LUCA detailed schedule.
2. Finalize the operational reporting requirements for the 2020 LUCA Operation.
3. Publish the 60 day Federal Register Notice.
4. Finalize the LUCA Advance Notice Letter.
5. Finalize the Advance Notice Entity Contacts Update Form.
6. Finalize the requirements for the 2020 LUCA Geographic Programs Participant Module.
7. Finalize the requirements for the 2020 LUCA Geocoding Tool.
8. Finalize the 2020 LUCA Informational Brochure/Flyer.

## Frame

### **Look Ahead (next 60 days) cont'd**

#### *Address Canvassing*

1. Issue Final Report/Recommendation on the utility of commercial data (housing unit address and associated geographic coordinate files).
2. Prepare the OMB Pre-Submission package for In-Office Address Canvassing.
3. Baseline the Study Plan for the MAF Coverage Study for FY 2016 – FY 2019.
4. Begin updating the MAF with the results of the 2016 MAF Coverage Study.
5. Begin the Test Plan for the 2017 MAF Coverage Study.
6. Receive final approval from OMB for the updated Generic MAF/TIGER clearance.
7. Baseline the Address Canvassing Test Study Plan.
8. Baseline the In-Office Address Canvassing Study Plan.
9. Begin recruiting staff for Active Block Resolution at the NPC.

## Response Data

### Description

Twelve operations support the response data area of the 2020 Census: Forms Printing and Distribution; Paper Data Capture; Integrated Partnership and Communications (IPC); Internet Self-Response; Non-ID Processing; Update Enumerate; Group Quarters; Enumeration at Transitory Locations; Census Questionnaire Assistance; Nonresponse Followup; Response Processing; and Federally Affiliated Americans Count Overseas. For the description of these operations, please see Table 1.

### Summary of Activities (last 30 days)

In support of the IPC operation, the Integrated Communications Contract (ICC) is on schedule to award August 2016. The Census Bureau ICC technical team and price team finished review of all proposals and oral presentations and discussions by April 26. Offerors will submit their final revised proposals by May 20. Over the next couple of months, the teams will finalize their review of the revised final proposals and discussions.

The Non-ID Processing team completed updates to capability requirements and the Business Process Model for the 2020 Census. The team also assembled a detailed business proposal and charter to take to the Decennial Program Management Governance Board on May 4, 2016.

The Update Enumerate (UE) team developed the 2020 Census Business Process Model (BPM) to define the operational flow and capability requirements.

The Group Quarters (GQ) team completed the Census Operations Mobile Platform for Adaptive Services and Solutions (COMPASS) system test on April 21, 2016, in preparation for the small-scale 2016 Service Based Enumeration Census Test that will be conducted at 12 pre-selected service based locations in Washington, DC and Baltimore City, Maryland on May 24-25, 2016. The team began the user acceptance test (UAT) on April 25, 2016.

In support of the 2020 Census Questionnaire Assistance (CQA) operation, the competitive range was established based on the evaluation of initial proposals to the CQA solicitation. The Government met with Offerors included in the competitive range for oral presentations and discussions.

The Nonresponse Followup (NRFU) team worked to refine the 2020 Census Business Process Model (BPM) to define the operational flow and capability requirements.

The Response Processing Integrated Project Team (IPT) continued to incorporate revisions to the 2020 Census response processing operations business process model and capability and business-level requirements based on lessons learned from the 2015 Testing and the 2016 Census Test. Also, the team began drafting the 2020 Census Response Processing Operations Detailed Operational Plan.

## Response Data

### **Look Ahead (next 60 days)**

#### *Integrated Partnership and Communications*

1. For the ICC:
  - a. Complete oral presentations.
  - b. Review final revised proposal submissions.

#### *Internet Self-Response*

1. Develop additional materials to support the Internet Self-Response IPT.
2. Develop the initial draft of the Internet Self-Response Detailed Operational Plan.

#### *Non-ID Processing*

1. Continue assembling detailed requirements for Non-ID Processing software/systems solution providers for delivery.

#### *Update Enumerate*

1. Develop additional materials to support the Update Enumerate IPT.

#### *Group Quarters*

1. Hold a kick-off meeting with representatives from maritime vessel agencies to discuss lessons learned from the 2010 Census and ways to improve data collection for personnel residing on maritime vessels.
2. For the Service Based Enumeration Test:
  - a. Finalize the Test Plan and Study Plan for the small-scale field test in the Baltimore-Washington Metropolitan Area.
  - b. Select staff and conduct training (pre-classroom and in-classroom).
  - c. Conduct the Test.
3. Meet with stakeholders (Federal State Cooperative Program for Population Estimates and Federal Bureau of Prisons) to gain additional insight of their potential roles in frame building and enumeration plans through the use of electronic transfer of administrative records from Group Quarters administrators for 2020 Census.

#### *Enumeration at Transitory Locations*

1. Define and develop Business Process Models and Capability Requirements for the Enumeration at Transitory Locations operation.

#### *Census Questionnaire Assistance*

1. Receive final proposals from Offerors included in the competitive range to the CQA solicitation.
2. Conduct evaluation of final proposals from Offerors included in the competitive range to the CQA solicitation.
3. Award contract for CQA.

## Response Data

### **Look Ahead (next 60 days) cont'd**

#### *Nonresponse Followup*

1. Develop a Detailed Business Proposal that outlines key aspects of the development and management of the 2020 Census Nonresponse Followup project.
2. Begin development of the 2020 Census Nonresponse Followup Detailed Operational Plan.
3. Meet with key stakeholders to resolve various issues associated with key capabilities supporting the Nonresponse Followup operation including discussions to identify other 2020 Census operations that could contribute to the Nonresponse Followup workload.

#### *Response Processing*

1. Complete the response processing component of the 2018 End-to-End Test schedule.
2. Complete the 2018 End-to-End Test response processing, Business Process Model (BPM), and capability and business-level requirements.

## Publish Data

### **Description**

Five operations support the publish data area of the 2020 Census: Data Products and Dissemination; Redistricting Data Program; Count Review; Count Question Resolution; and Archiving. For the description of these operations, please see Table 1.

### **Summary of Activities (last 30 days)**

The Redistricting Data Program (RDP) continued the 2020 Census RDP kick-off meetings with meetings in Santa Fe, New Mexico; Concord, New Hampshire; Helena, Montana; Boise, Idaho; Trenton, New Jersey; and, Topeka, Kansas. These ongoing visits provide the states an opportunity to ensure the Census Bureau captures their needs in regards to useful census redistricting data as required by Public Law (P.L.) 94-171. The visits also provide the states an opportunity to learn about the 2020 Census Redistricting Data Program, 2020 Census planning, and upcoming Census geographic partnership programs.

The 2020 Census RDP liaisons are all identified, giving the program 100 percent coverage for the 50 states, the District of Columbia, and Puerto Rico.

Congressional and state legislative districts have all been verified or changes have been submitted for the 115<sup>th</sup> Congress and the 2016 State Legislative Districts and are being processed.

Support for Phase 1 of the 2020 Census Redistricting Data Program, the Block Boundary Suggestion Project (BBSP) continued. Twelve states have begun submitting their changes with a total of 320 counties submitted so far. One state, South Carolina, has completed their entire submission.

The Count Review team reviewed existing Census Bureau software applications to assess capabilities that could be leveraged to support the operational needs of the Count Review Program. Members of the Count Review team participated in discussions with Federal State Cooperative for Population Estimates (FSCPE) members about the preliminary plans for the 2020 Census Count Review operation.

### **Look Ahead (next 60 days)**

#### *Redistricting Data Program*

1. Continue the 2020 Census Redistricting Data Program kick-off meetings.
2. Continue biennial updates of congressional and state legislative districts (115th Congress).
3. Continue Block Boundary Suggestion Project.

#### *Count Review*

1. Refine and develop Business Process Models and Capability Requirements for the 2020 Census Count Review operation.

## Test and Evaluation

### Description

Four operations support the Test and Evaluation area of the 2020 Census: Coverage Measurement Design and Estimation; Coverage Measurement Matching; Coverage Measurement Field Operations; and Evaluations and Experiments. For the description of these operations, please see Table 1.

### Summary of Activities (last 30 days)

Three teams were established to develop the operational plans for the four operations covered by Test and Evaluation. The teams include: Coverage Measurement Design and Estimation team; Coverage Measurement Field Operations and Matching team; and the Evaluations and Experiments team.

The Coverage Measurement Design and Estimation team developed a charter and initiated efforts to develop Business Process Models and define capability requirements in support of the 2020 Census operational design for Coverage Measurement Design and Estimation. Team members participated in the development of the 2018 End-to-End Test Integrated Master Schedule.

The Coverage Measurement Field Data Collection and Matching team developed a charter and initiated efforts to develop Business Process Models and define capability requirements in support of the 2020 Census operational design for the Coverage Measurement Field Operations and the Coverage Measurement Matching Operation. Team members participated in the development of the 2018 End-to-End Test Integrated Master Schedule.

The Evaluation and Experiments team developed a charter, as well as developed a charter for the Decennial Research Objectives and Methods (DROM) Working Group. The DROM will serve as an oversight body to review research methodologies, study plans, and analysis results. The group will provide support to other 2020 Census teams in the form of validation of the research questions being asked and the methods and data needed to provide sound and defensible answers to the questions. The team developed process flows associated with the development, review, and approval of study plans, operational assessments, and analysis results. The team established an Inter-Agency Agreement with the Department of Defense to contract with the JASON project in support of developing a vision for the 2030 Census. Team members participated in the development of the 2018 End-to-End Test Integrated Master Schedule.

### Look Ahead (next 60 days)

#### *Coverage Measurement Design and Estimation*

1. Begin development of a Detailed Business Proposal to lay out the lifecycle plans including high-level milestones, schedule, scope, and costs for the operation.

#### *Coverage Measurement Field Operations and Matching*

1. Begin development of a Detailed Business Proposal to lay out the lifecycle plans including high-level milestones, schedule, scope, and costs for the operation.

## Test and Evaluation

### Look Ahead (next 60 days) cont'd

#### *Evaluations and Experiments*

1. Conduct user acceptance testing of a Knowledge Management Repository.
2. Present information about the decennial census to the JASON Project.
3. Plan for additional engagement opportunities with the JASON Project.

## Infrastructure

### Description

Four operations support the infrastructure area of the 2020 Census: Decennial Service Center; Field Infrastructure; Decennial Logistics Management; and IT Infrastructure. For the description of these operations, please see Table 1.

### Summary of Activities (last 30 days)

In support of the IT Infrastructure operation, the Field Office IT Deployment team has completed work with the Houston and Los Angeles Area Operation Support Centers (AOSCs) and has shifted its focus to design and procurement for the upcoming Address Canvassing Test. The Cloud team has begun to conduct Cloud readiness assessments to identify solutions that would be best suited for deployment to the Cloud.

### Look Ahead (next 60 days)

#### *Decennial Service Center*

1. For later Field Testing:
  - a. Continue to work with Decennial Stakeholders to develop Decennial Service Center technical and budget requirements to support the Address Canvassing, 2017 Census Tests, Partnership Activities, and the 2018 End-to-End Test.

#### *Field Infrastructure*

1. Decennial Space & Leasing
  - a. Continue to refine Regional Census Center requirements.
    - i. Work with GSA to identify potential areas of consideration for the Regional Census Centers.
  - b. Begin space acquisition process upon receipt of 2018 End-to-End site selections.
2. Recruiting and Employment Assessment
  - a. Continue application development for the Census Automated Recruiting & Assessment Tool.
  - b. Acquire funding to move the Census Automated Recruiting & Assessment Tool in Cloud.
3. Decennial Data Collection Training
  - a. Collaborate with training content vendor for the In-Field Address Canvassing operation.

#### *Decennial Logistics Management*

1. Conduct a 2020 Census kick-off meeting with the National Processing Center and its decennial customers.
2. Collaborate with GSA to conduct market research for decennial data processing space in and around Jeffersonville, Indiana.

#### *IT Infrastructure*

1. Field Office IT Deployment
  - a. Continue to work with Decennial Stakeholders to develop technical and budget requirements to support the Address Canvassing, 2017 Census Tests, Partnership Activities, and the 2018 End-to-End Test.

## Infrastructure

### **Look Ahead (next 60 days) cont'd**

#### *IT Infrastructure cont'd*

2. Cloud
  - a. Begin to provision Cloud environments and deploy selected applications into the Cloud for testing.
3. Mobile
  - a. Continue market research on decennial Device as a Service (dDaaS) for the 2020 Census.
  - b. Award interim dDaaS contract for 2017 field testing.
  - c. Conduct further testing of the Mobile Device Management (MDM) software configurations in preparation for the Address Canvassing Test.

# **Additional Updates**

## Oversight & Stakeholder Engagement

### Description

This section describes major activities related to Government Accountability Office (GAO) and Office of the Inspector General (OIG) audits (e.g., new audits, exit meetings for completed audits, issuance of draft and final reports, preparation of agency action plans), Congressional hearings related to the 2020 Census; and presentations and working meetings with our advisory committees, the 2020 Census National Academy of Sciences Standing Committee on Reengineering Census Operations, and other external stakeholders.

### Summary of Activities (last 30 days)

1. OIG held their exit meeting regarding their 2015 Census Test engagement on April 4, 2016.
2. OIG held their exit meeting regarding their Continuous Updating of MTdb & LUCA Preparation engagement on April 8, 2016. This exit meeting and report was for the one remaining objective. We received the formal draft report on April 15, 2016. Agency comments were completed on schedule.
3. The Census Bureau's action plan in response to the OIG's final report, The U.S. Census Bureau's Efforts to Ensure an Accurate Address List Raise Concerns over Design and Lack of Cost-Benefit Analysis was delivered to the OIG on April 19, 2016. This report focused on the LUCA program and working with governmental units to update the MAF.
4. GAO met on April 19, 2016 with key staff and leadership from the Decennial directorate to discuss their draft statement of facts for their 2020 Census Life-Cycle Cost Estimation engagement. The GAO will use this information to prepare their formal draft report, which they expect to provide to us on May 13, 2016.
5. GAO met on April 21, 2016 with key staff and leadership from the IT and Decennial directorates to discuss their draft statement of facts for their CEDCaP audit. The GAO will use this information to prepare their formal draft report, which they expect to provide to us on May 19, 2016.
6. Presented a 2020 Census and American Community Survey (ACS) update for the Committee on Applied Demography at the Population Association of America's 2016 Annual Meeting on April 1, 2016.
7. Presented a 2020 Census update at the North Dakota State Data Center Meeting in Bismarck, North Dakota on April 5, 2016.
8. Presented a 2020 Census update at the Census Information Center and State Data Center Steering Committee Meeting on April 8, 2016.
9. Conducted the 2020 Census Program Management Review (PMR) on April 12, 2016.
10. Discussed comments on the 2015 National Content Test (NCT) Race and Ethnicity Study Plan at a virtual meeting with National Advisory Committee on Racial, Ethnic, and Other Populations on April 21, 2016.
11. Presented 2020 Census and operational updates at the Spring Census Scientific Advisory Committee meetings on April 14-15, 2016.
12. Presented and conducted a Technology Expo at the Census Scientific Advisory Committee Meeting April 14-15, 2016.
13. Presented and answered questions about the 2015 NCT race and ethnicity study plan for the Leadership Conference on Civil Rights on April 28, 2016.

## Oversight & Stakeholder Engagement

### **Summary of Activities (last 30 days) cont'd**

14. Briefed the House Oversight Committee staff on the 2015 NCT race and ethnicity research on April 27, 2016.
15. Conduct 2020 Census Redistricting Data Program Kick-offs in:
  - a. Santa Fe, New Mexico
  - b. Concord, New Hampshire
  - c. Helena, Montana
  - d. Boise, Idaho
  - e. Trenton, New Jersey

### **Look Ahead (next 60 days)**

1. Present a 2020 Census update at the Montana State Data Center Meeting in Helena, Montana on May 10-11, 2016.
2. Present a 2020 Census update at the Pennsylvania State Data Center Meeting at the Pennsylvania State University on May 11, 2016.
3. Present a 2020 Census update at the Alaska Native Population Data Conference on May 12, 2016.
4. Present and conduct a Technology Expo at the National Advisory Committee Meeting on May 12-13, 2016.
5. Present an overview of the 2020 Census Operational Design, Frame Development, Optimizing Self-Response, Using Administrative Records and 2015 NCT race and ethnicity design at the American Association of Public Opinion Research (AAPOR) annual conference in Austin, Texas on May 13, 2016.
6. Present a 2020 Census update to the National Academy of Sciences on May 16, 2016.
7. Present a 2020 Census update at the Alabama State Data Center Meeting in Montgomery, Alabama on May 26, 2016.
8. For their Cost Estimation audit, the GAO expects to deliver their formal draft report to the Census Bureau on May 13, 2016.
9. For their CEDCaP audit, the GAO expects to deliver their formal draft report to the Census Bureau on May 19, 2016.

## Program Schedule Metrics Research & Testing

### Key Activities Planned for FY16

Status: End of April 2016

Project ID	Name	2016											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
15NCT-N	Conduct Paper Data Capture for 2015 NCT	[Actual Activity]											
15NCT-N	Conduct CATI Reinterview for 2015 NCT	[Actual Activity]											
20PCS	Deliver Preliminary 2020 Decennial Census Operational Plan	▲	10-01-15 A										
15NCT-N	Complete Data Collection for 2015 NCT		▲	10-31-15 A									
16CST	Final OMB clearance approval received - 2016 Census Test				▲	01-14-16 A							
16CST	Open Area Operations Support Center (AOSC) for Field Operations - 2016 Census Test				▲	02-03-16 A	▼						
16ACT-A	Obtain Management Approval (ESC) for Sites - AdCan Test												
16CST	Deploy Primus for Self-Response - 2016 Census Test												
16CST	Begin Self-Response Data Collection - 2016 Census Test												
16CST	Conduct Internet Push Letter: Mailing 1 - 2016 Census Test												
16CST	Conduct Telephone Questionnaire Assistance (TQA) Operation - 2016 Census Test												
15NCT-N	Finalize Project Report for Research Study for 2015 NCT												
16CST	Census Day - 2016 Census Test												
16CST	Conduct Coverage Reinterview - 2016 Census Test												
16CST	Conduct NRFU Interviews - 2016 Census Test												
16FLD-A	Open Regional Census Center (RCC) - AdCan Test												
16ACT-A	Conduct Interactive Review for AdCan Test Sites - AdCan Test												
16ACT-A	OMB Clearance - Approval Received - AdCan Test												

▼	Current Start Milestone	▲	Current Finish Milestone	■	Current Activity	▼	Actual Start Milestone	■	Baseline Activity
▼	Baseline Start Milestone	▲	Baseline Finish Milestone	■	Actual Activity	▲	Actual Finish Milestone		

Run Time: 05-02-16 / 16:38

#### Explanations for Project Start/Finish Delays

**Activity 16ACT-A: "Obtain Management Approval (ESC) for Sites – AdCan Test"**

Reason for Delay: Due to limited resources available to work with for site selection, the activity was delayed. No impact on schedule.

**Activity 16CST: "Conduct Coverage Reinterview – 2016 Census Test"**

Reason for Delay: Due to a delay in data transmission and testing, Coverage Reinterview is projected to start on May 2, 2016 and aimed to finish, on time, by June 24, 2016.

**Activity 16FLD-A: "Open Regional Census Center (RCC) – AdCan Test"**

Reason for Delay: While there is no delay foreseen in the opening of the Regional Census Center, the apparent delay as shown in the Gantt chart is due to incorrect schedule logic which will be corrected via a schedule Change Request.

**Activity 16ACT-A: "Conduct Interactive Review for AdCan Test Sites – AdCan Test"**

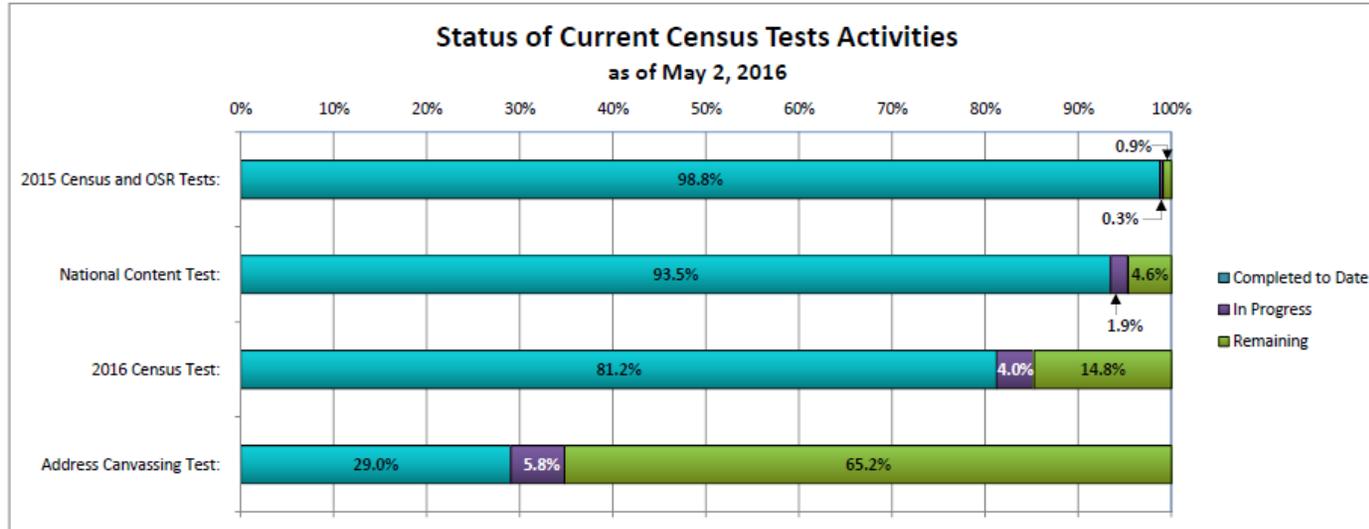
Reason for Delay: Drafting of the MAF extract specifications document is pushing the Interactive Review late in the schedule. However, the specifications have started and will be completed in time for Interactive Review to be on time.

**Activity 16ACT-A: "OMB Clearance – Approval Received – AdCan Test"**

Reason for Delay: OMB Clearance is delayed due to a slight delay in submitting the clearance package. Staff have implemented a mitigation strategy to deal with potential printing delays that may result. No impact foreseen at this time on the overall finish date of the AdCan Test in June 2017.

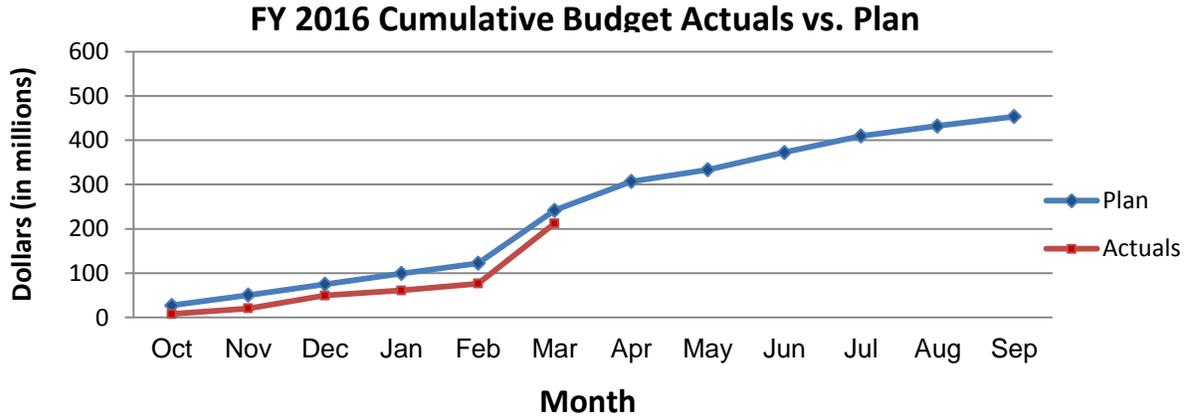
## Program Schedule Metrics Research & Testing

### Status of Census Tests through April 2016



	Total Activities	Completed to Date	In Progress	Remaining
2015 Census and OSR Tests:	2989	2952	10	27
National Content Test:	1181	1104	22	55
2016 Census Test:	1919	1559	77	283
Address Canvassing Test:	572	166	33	373

## Program Budget / Costs as of March 31, 2016



	Mar. Cum Plan	Mar. Cum Actuals	Mar. Cum Variance	% Variance
<b>GRAND TOTAL</b>	<b>\$263,870,362</b>	<b>\$233,924,475</b>	<b>\$29,945,887</b>	<b>11.3%</b>
<p>At the end of March, the \$29.5M variance in the 2020 Census program consists of \$7.1M in salaries and \$22.4M in other objects. The salary variance is due to delays in filling vacancies at HQ/RCCs, inaccurate spending plans, and lower scope of work than anticipated. We are working with HRD to fill these positions by the end of the year. The other object variance is driven by a delay in obligations. We still plan to award these contracts, and don't believe the delays will significantly affect our ability to stay on schedule and complete planned activities.</p>				
<b>R1 Program Management</b>	\$42,895,011	\$40,734,338	\$2,160,673	5.0%
<p>The variance in this area consists of <b>\$0.5M</b> higher than expected salary costs and \$2.7M lower than expected other objects costs. The salary variance is due to staff charging to decennial projects in error. Corrective action is being taken to remove the charges. The other objects variance is due to the modification to a schedule development contract not being in place until the end of April. There is no impact to the program as we expect the obligation to occur in May.</p>				
<b>R2 Census/Survey Engineering</b>	\$20,506,885	\$20,195,912	\$310,973	1.5%
<p>The variance is within threshold.</p>				

## Program Budget / Costs as of March 31, 2016

<b>R3 Frame</b>	\$35,557,540	\$31,826,953	\$3,730,587	10.5%
<p>The variance in this area consists of \$1.4M lower than expected salary costs and \$2.3M lower than expected other objects costs. The majority of the salary variance is due to an inaccurate spending plan. Due to the uncertainty of the work, NPC originally spread their funds evenly across all 12 months in the address canvassing in-office project. All funds eventually will be needed as the workload is expected to ramp up in the third and fourth quarters. The majority of the other objects variance is due to delays in obligating the following contracts/other objects: 1) a contract supporting the Address Canvassing operation, 2) a contract for a technical writer, 3) a scheduling support contract, and 4) a database support contract. The contract supporting the Address Canvassing operation was committed in April and the other three contracts are expected to be obligated in May.</p>				
<b>R4 Response Data</b>	\$23,332,612	\$20,458,158	\$2,874,454	12.3%
<p>The variance in this area consists of \$0.7M lower than expected salary costs and \$2.2M lower than expected other objects costs. The salary variance is due to delays in filling vacancies. We are working with HR to get these positions filled by the end of the year. The majority of the other objects variance is due to delays in obligating the following contracts/other objects: 1) a contract for acquisition support services (expect the obligation to occur in June); 2) Oracle licenses (funds were committed in April); and 3) a contract supporting the 2020 Communications work was charged to the wrong program. Corrective action is being taken to move the charges to the decennial program. There is no impact to the program as these funds are expected to be obligated in May/June.</p>				
<b>R5 Published Data</b>	\$19,414,524	\$16,039,922	\$3,374,602	17.4%
<p>The variance in this area consists of \$0.6M lower than expected salary costs and \$2.8M lower than expected other objects costs. The salary variance is due to delays in filling vacancies. We are working with HR to get these positions filled by the end of the year. The other objects variance is due to a delay in purchasing hardware in support of the CEDSCI project. There is no impact to the program as these funds were committed in April.</p>				
<b>R6 Test and Evaluation</b>	\$56,476,940	\$42,236,476	\$14,240,464	25.2%
<p>The variance in this area consists of \$4.5M lower than expected salary costs and \$9.7M lower than expected other objects. The salary variance is due to delays in filling vacancies, inaccurate spending plans, and lower scope of work than anticipated. First, there were delays in hiring the RCC staff because of the delays in the CHEC process. Second, due to the uncertainty of the work, NPC originally spread their funds evenly across all 12 months in their spending plan. All funds eventually will be needed as the workload is expected to ramp up in the third and fourth quarters. Last, there was lower scope of work than anticipated in the Test Planning and Evaluations projects. The majority of the other objects variance is due to delays in obligating the following contracts/other objects: 1) a contract for development and systems engineering support, 2) a contract for project management support, and 3) equipment including routers, switches and firewalls. Additionally, there is funding that is no longer needed for the project management support contract, and there was a \$1.8M operating plan that was processed twice. The plan was corrected in April.</p>				

## Program Budget / Costs as of March 31, 2016

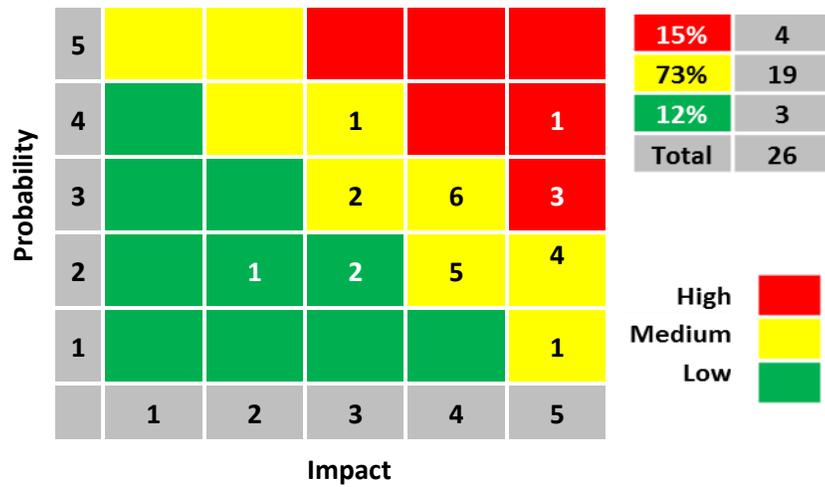
<b>R7 Infrastructure</b>	\$43,906,850	\$41,074,577	\$2,832,273	6.5%
<p>The variance in this area consists of \$0.4M lower than expected salary costs and \$2.4M lower than expected other objects costs. The salary variance is due to delays in filling vacancies. We are working with HRD to get these positions by the end of the year. The majority of the other objects variance is due to delays in obligating the following contracts/other objects: 1) a business integration software (the purchase of the software has been delayed until the completion of a software evaluation effort of Business Integration Software), and 2) a tech support contract which is expected to be awarded this summer.</p>				

Note: Explanations are required for frameworks with variances that are equal to or greater than +/- 10% OR greater than +/- \$500k.

## Program-Level Life Cycle Risks

	Risk ID	Name	Level	Prior Level	Trend	Prob	Imp
1	LC-040	Funding Requests Not Realized	H	H	↔	4	5
2	LC-033	Administrative Records and Third-Party Data - External Factors	H	H	↔	3	5
3	LC-039	Public Perception of Ability to Safeguard Response Data	H	H	↔	3	5
4	LC-041	Cyber Security Incidents	H	H	↔	3	5
5	LC-021	Schedule Impacts	M	M	↔	4	3
6	LC-010	Enterprise IT Solutions	M	M	↔	3	4
7	LC-015	Program Life Cycle	M	M	↔	3	4
8	LC-031	Delay of Quality Control Testing	M	M	↔	3	4
9	LC-036	Operations and Systems Integration	M	M	↔	3	4
10	LC-038	Data Quality	M	M	↔	3	4
11	LC-042	Late Operational Design Changes	M	M	↔	3	4
12	LC-011	Acquisition Lead Time	M	M	↔	3	3
13	LC-037	Human Capital Management	M	M	↔	3	3
14	LC-003	Meeting Cost Goal	M	M	↔	2	5
15	LC-028	Internet Data Collection	M	M	↔	2	5
16	LC-032	Reengineering Address Canvassing Operation	M	M	↔	2	5
17	LC-034	Administrative Records and Third-Party Data - Access and Constraints	M	M	↔	2	5
18	LC-001	Cost Model Projections	M	M	↔	2	4
19	LC-012	External Support	M	M	↔	2	4
20	LC-022	Technological Innovations Surfacing After Design Is Finalized	M	M	↑	2	4
21	LC-027	IT Security Controls	M	M	↔	2	4
22	LC-029	Contract Management	M	M	↔	2	4
23	LC-004	ACS Funding and Integration	M	M	↔	1	5
24	LC-016	Policy Impacts	L	L	↔	2	3
25	LC-023	Inconclusive Data	L	L	↔	2	3
26	LC-018	Trade Agreement Act Compliance	L	L	↔	2	2

### Program-Level Life Cycle Risks



LC-022\_Technological Innovations Surfacing After Design Is Finalized: Probability rating lowered from 3 to 2 because it is believed the design for the 2018 End-to-End Test will be technologically sound and there is unlikely to be many technological innovations that will surface between the 2018 End-to-End Test and Census Day in 2020. It is not likely any technological innovation would be approved for production in that timeframe.

# Appendix

## Appendix A

### Acronyms

ACS .....	American Community Survey
AMO .....	Area Manager of Operations
AMSD .....	Administrative and Management Systems Division
AOSC .....	Area Operations Support Center
ARM.....	Administrative Records Modeling
ASD.....	Application Services Division
ATAC.....	Automated Tracking and Control
AVI.....	[Telephone: robocall]
AVT .....	Address Validation Test
BYOD .....	Bring Your Own Device [The use of employee-owned equipment/services.]
CATI .....	<i>Computer Assisted Telephone Interviewing</i>
CCs.....	Contact Centers
CEDCaP .....	Census Enterprise Data Collection and Processing
CES.....	Center for Economic Studies
CMS .....	Center for Medicare and Medicaid Studies
COMPASS .....	Census Operations Mobile Platform for Adaptive Services and Solutions
CQA .....	Census Questionnaire Assistance
CR .....	<i>Continuing Resolution</i>
CSAC .....	Census Bureau's Scientific Advisory Committee
CSM .....	Center for Survey Measurement
DAPPS .....	Decennial Applicant, Personnel and Payroll System
DCBO .....	Decennial Communications and Budget Office
DCMD .....	Decennial Census Management Division
dDaaS .....	decennial Device as a Service
DDSSO .....	Decennial Directorate Support Services Office
DITD.....	Decennial Information Technology Division
DPMO .....	Decennial Program Management Office
DSSD .....	Decennial Statistical Studies Division
EFU .....	Evaluation Followup
ENUM .....	Enumerators in the Field
ENUMPREP .....	Enumeration Preparation
ES.....	English/Spanish, otherwise known as Bilingual
FMO.....	Field Manager of Operations
FY.....	<i>Fiscal Year</i>
FSCPE.....	<i>Federal-State Cooperative for Population Estimates</i>
GEO .....	Geography Division
GAO .....	<i>Government Accountability Office</i>
GPO .....	<i>Government Publishing Office</i>
GRF-C.....	Geographic Reference File-Codes
GRF-N .....	Geographic Reference File-Names
HU .....	Housing Unit
ICADE.....	Integrated Computer Assisted Data Entry System
ICC .....	Integrated Communications Contract
IMS .....	Integrated Master Schedule
IPT .....	Integrated Project Team
IRS .....	<i>Internal Revenue Service</i>
IT .....	<i>Information Technology</i>
JASON.....	[An independent scientific advisory group that provides consulting services to the federal government on matters of science and technology.]
LCO .....	Local Census Office
LMS .....	Learning Management System

LSO ..... Local Supervisor of Operations  
 LUCA ..... Local Update of Census Addresses  
 MAF ..... Master Address File  
 MAFUF ..... Master Address File Update File  
 MCM..... Mobile Case Management  
 MES ..... Mission Enabling Services  
 MMVT..... MAF Model Validation Test  
 MOCS..... Multimode Operational Control System  
 MOJO ..... [Term for Census Operational Control System for Reengineered Field Operations]  
 NAC ..... *National Advisory Committee*  
 NAS ..... *National Academy of Sciences*  
 NCT ..... National Content Test  
 "Notify Me" ..... [Census Bureau's Pre-registration Tool]  
 NPC..... National Processing Center  
 NRFU ..... Nonresponse Followup  
 OCS..... Operational Control System  
 OIG ..... *Office of the Inspector General*  
 OMB ..... *Office of Management and Budget*  
 OSR ..... Optimizing Self-Response  
 PM ..... *Program Management*  
 PMR..... Program Management Review  
 PRIMUS..... [Census Bureau's Internet Data Collection System]  
 PVSed ..... [To make data private and secured]  
 QC..... *Quality Control*  
 R&T ..... Research and Testing  
 RCC ..... Regional Census Center  
 RFI ..... *Request for Information*  
 RFP ..... *Request for Proposal*  
 RO..... Regional Office  
 ROCKIT ..... Reorganized Census with Integrated Technology [Reengineered Field Operations]  
 RRB ..... Risk Review Board  
 RTNP..... Real-Time Non-ID Processing  
 RTOCS ..... Research and Testing Operational Control System  
 SDLC ..... Systems Development Lifecycle  
 SE ..... *System Engineering*  
 SIMEX ..... Human in the Loop Simulation  
 SLC..... Survey Life Cycle  
 TIGER ..... Topologically Integrated Geographic Encoding and Referencing  
 TMO..... Technologies Management Office  
 TQA ..... Telephone Questionnaire Assistance  
 UAA ..... *Undeliverable As Addressed*  
 UAT..... *User Acceptance Test*  
 UCRM ..... Universe Control and Response Management  
 UECT ..... Universal Enumeration and Control Table  
 UHE..... Usual Home Elsewhere  
 USPS ..... *United States Postal Service*  
 UT..... Users Test  
 UTS ..... Unified Tracking System  
 WLM ..... Workload Management

Note: Non-italicized acronyms are those that are used mainly at US Census Bureau  
 whereas italicized acronyms are widely employed elsewhere.