

# 2020 Census Program Management Review

Decennial Census Programs

U.S. Census Bureau

January 26, 2018

Welcome

**Albert E. Fontenot Jr.**  
Associate Director, Decennial Census Programs

# Welcome

## Housekeeping Items

- Meeting is being broadcast via a publicly available web broadcast
  - Consider all microphones live at all times when having sidebar conversations
- For questions, please remember to speak directly into the microphones for the benefit of other participants, including those watching via any external broadcast
  - [2020.census.pmr@census.gov](mailto:2020.census.pmr@census.gov)
- There are legal requirements we must follow when talking with contractors or potential contractors
  - Information from Michael Palensky, Chief, Acquisition Division
- Location of restrooms – next to elevators in green (just outside the auditorium)
- Emergency exits

# Welcome

## Today's Agenda

- Welcome and High-Level Program Updates
- 2020 Census Operations
  - Questions Planned for the 2020 Census and American Community Survey: A Process Overview
  - Update on Language Services Operation
- Update on Testing
  - 2018 End-to-End Census Test
  - Update on the Partnership with the U.S. Postal Service
- Recruitment and Assessment Demonstration
- Update on 2020 Census Major Contracts
- 2020 Census Systems Readiness
- Wrap-Up

# The 2020 Census

## Status Update

- Race and Ethnicity
- Residence Criteria
- Department of Justice request to add a citizenship question

# The 2020 Census

## FY 2018 Funding Update

2020 Census (Dollars in Millions)								
	FY12	FY13	FY14	FY15	FY16	FY17	FY18* Original Request	FY18** Adjusted Request
Congressional Request	\$67.0	\$131.4	\$244.8	\$443.2	\$662.5	\$778.3	\$800.2	\$987.0
Enacted Budget	\$66.6	\$94.0	\$232.7	\$344.6	\$625.3	\$754.4		

\* Currently operating under Continuing Resolution through December 8, 2017 (PL 115-56). Amount references the FY 2018 President's Budget Request.

\*\* Adjustment to FY 2018 President's Budget Request, as referenced publicly in the testimony by Secretary of Commerce to the House Committee on Oversight and Government Affairs on October 13.

# The 2020 Census

## Life Cycle Cost Estimate Executive Summary

- Completed in December 2017
- Delivered to Congress in January 2018
- Revised Life Cycle Cost Estimate: \$15.6 Billion

### 2020 Census Life-cycle Cost Estimate Executive Summary

*A New Design for the 21st Century*

Issued December 21, 2017  
Version 1.0



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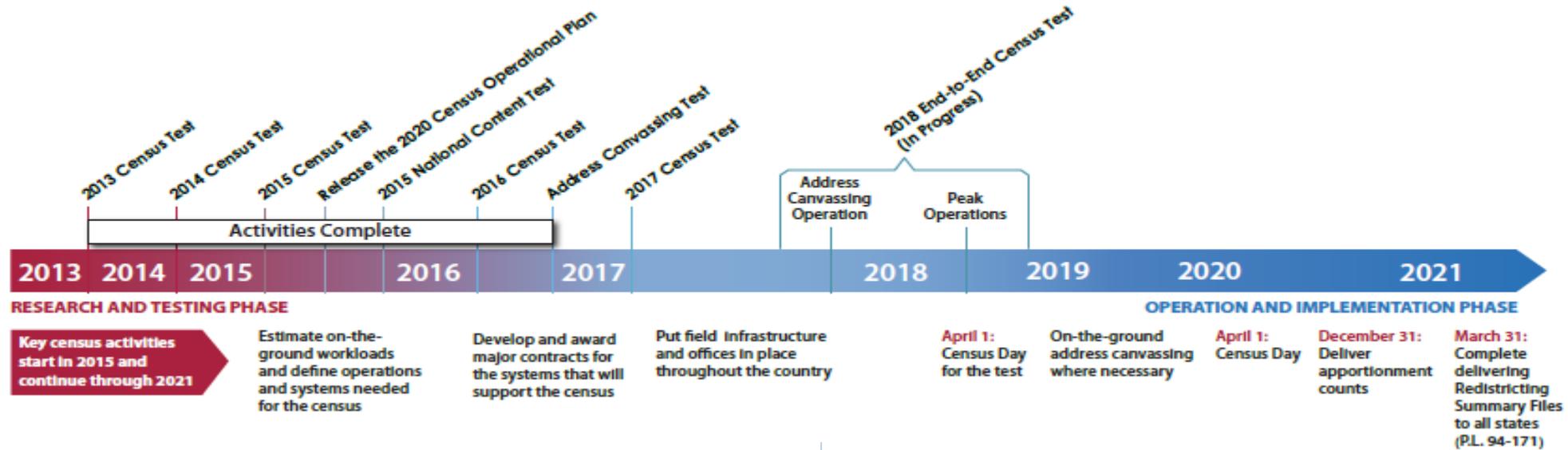
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# The 2020 Census

## Where Are We Now



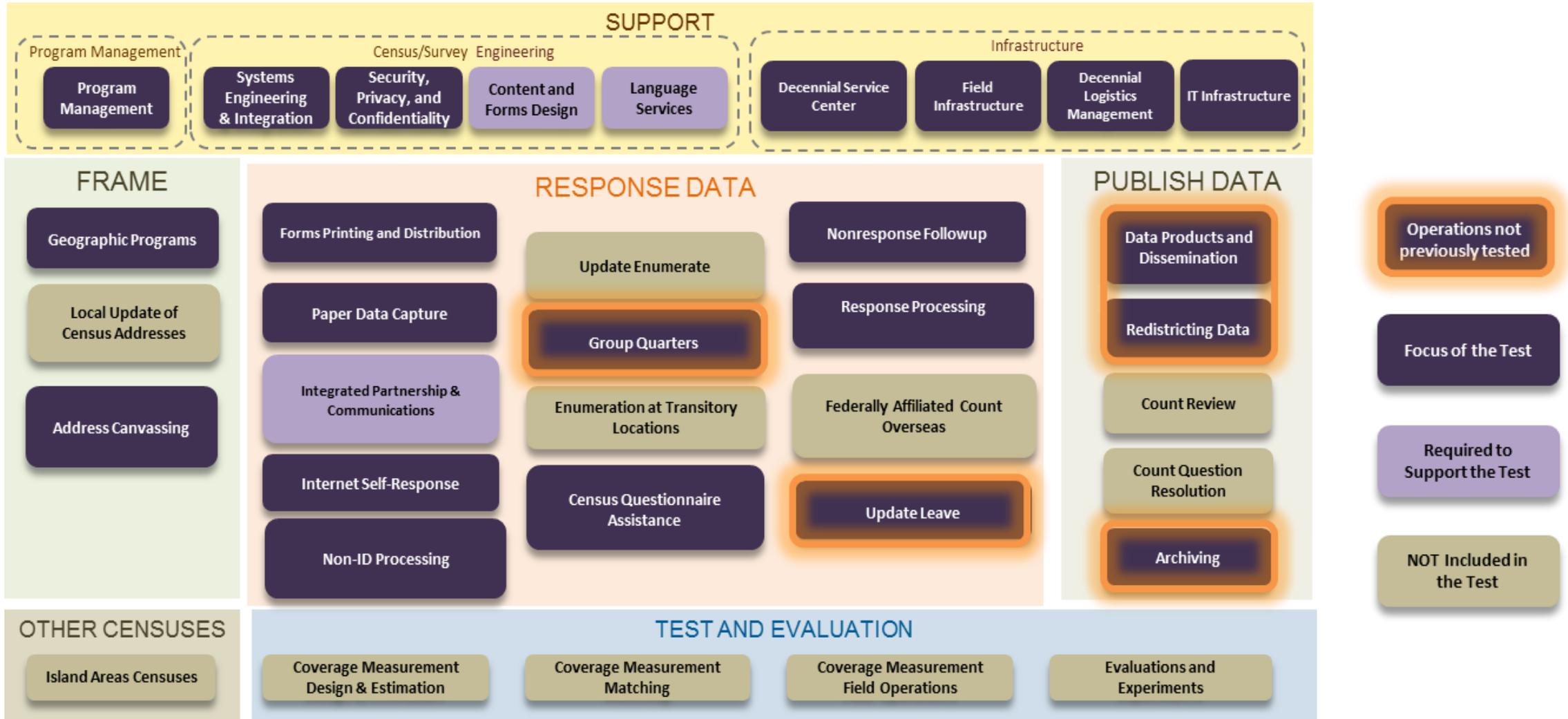
### Key Activities:

- **Making Key Decisions:** Continuously make timely decisions based on research and evidence
- **Awarding Key Contracts:** Continue to award key contracts for the 2020 Census
- **Planning and Execution of the 2018 End-to-End Census Test:** Focuses on the overall integration of systems and operational procedures for 24 of the 35 operations of the 2020 Census

- **Area Census Office Delineation:** Identified number of and initial locations for early offices and initiated leasing and logistics processes. GSA initiated action on 40 early ACOs on July 13, 2017.
- **Delivery of Questions to Congress:** Title 13 requires the Census Bureau deliver to questions by March 31, 2018
- **Operational Readiness**
  - Field Infrastructure: Space, Decennial Logistics Management, Training, Recruiting, and Onboarding (planning underway)
  - Systems testing underway

# The 2018 End-to-End Census Test

## Operational Scope



# The 2020 Census

## Major Contracts\*

Contract Status

Awarded

Pre-Award

### Technical Integrator

**Vendor: T-REX Solutions, LLC  
(17 subcontractors)**

Ensures 2020 Census System of Systems (SoS) integrates, performs, scales, is secure, and meets business objectives.  
Provides 2020 Census Cloud and On Premise Infrastructure.  
Provides systems integration and testing.

### CEDCaP - ECaSE

**Vendor: ImmixGroup/Pega  
(subcontractor)**

ECaSE development services support new data collection systems. These systems support the operational control systems for Address Canvassing and Nonresponse Followup, and the data collections systems for Nonresponse Followup and Self-Response, which includes internet and telephone.

### Decennial Device as a Service (dDaaS)

**Vendor: CDW-G (8 subcontractors)**

Provides Mobile Devices for Field Data Collection Operations.  
Software Integration, Cellular, Logistics, Shipping, Asset Management, Break/Fix and Disposition.

### Field IT Deployment (FITd)

**Vendor: TBD**

Provides the IT infrastructure for 2020 Census field sites.  
IT & Telecommunications Hardware, Image Integration, Logistics, Shipping, Installation, Break/Fix and Disposition.  
Regional Census Centers  
Area Census Offices  
Island Area Censuses Offices  
Paper Data Capture Centers

### Census Questionnaire Assistance (CQA)

**Vendor: GDIT (10 subcontractors)**

Provides call center capability for self-response, assist respondents with responding to and completing census questionnaire, and provides Interactive Voice Response.

### C-SHaRPS – Recruiting & Selection

**Vendor: CSRA (5 subcontractors)**

Provides recruiting and selection and Learning Management System COTS for up to 400K concurrent Schedule A Field Staff.

### Integrated Communications

**Vendor: Y&R (19 Subcontractors)**

Supports the advertising and partnership program.

### C-SHaRPS Fingerprinting

**Vendor: IndraSoft, Inc**

Provides fingerprinting services for field staff.

### 2020 Census Print and Mail

**Vendor: Cenveo**

Provides the majority of printing and mailing services for the 2020 Census.

Note: Decennial Service Center (DSC) is removed from DCEO contracts and functions will be fulfilled by other areas

\*This slide represents the status of major contracts for the 2020 Census and is not an exhaustive list of contracts or contract opportunities

# The 2020 Census

## Key Milestones

Milestone	Date	
Begin 2020 Census Program	November 18, 2011	✓
Deliver 2020 Census Operational Plan	September 30, 2015	✓
Federal Register Notice of Proposed Residence Criteria and Residence Situations for the 2020 Census	June 30, 2016	✓
Conduct the Second Round of Tribal Consultations	September – November 2016	✓
Begin Local Update of Census Addresses (LUCA) Program	January 2017	✓
Deliver 2020 Census Topics to Congress	March 28, 2017	✓
Conduct the Block Boundary Suggestion Program	December 2015 – May 2017	✓
Deliver 2020 Census Questions to Congress	By March 31, 2018	
2020 Census Day	April 1, 2020	
Deliver Apportionment Counts to the President	By December 31, 2020	
Complete Delivery of Redistricting Counts to the States	By March 31, 2021	
Complete 2020 Census Program	September 29, 2023	

# Program Updates

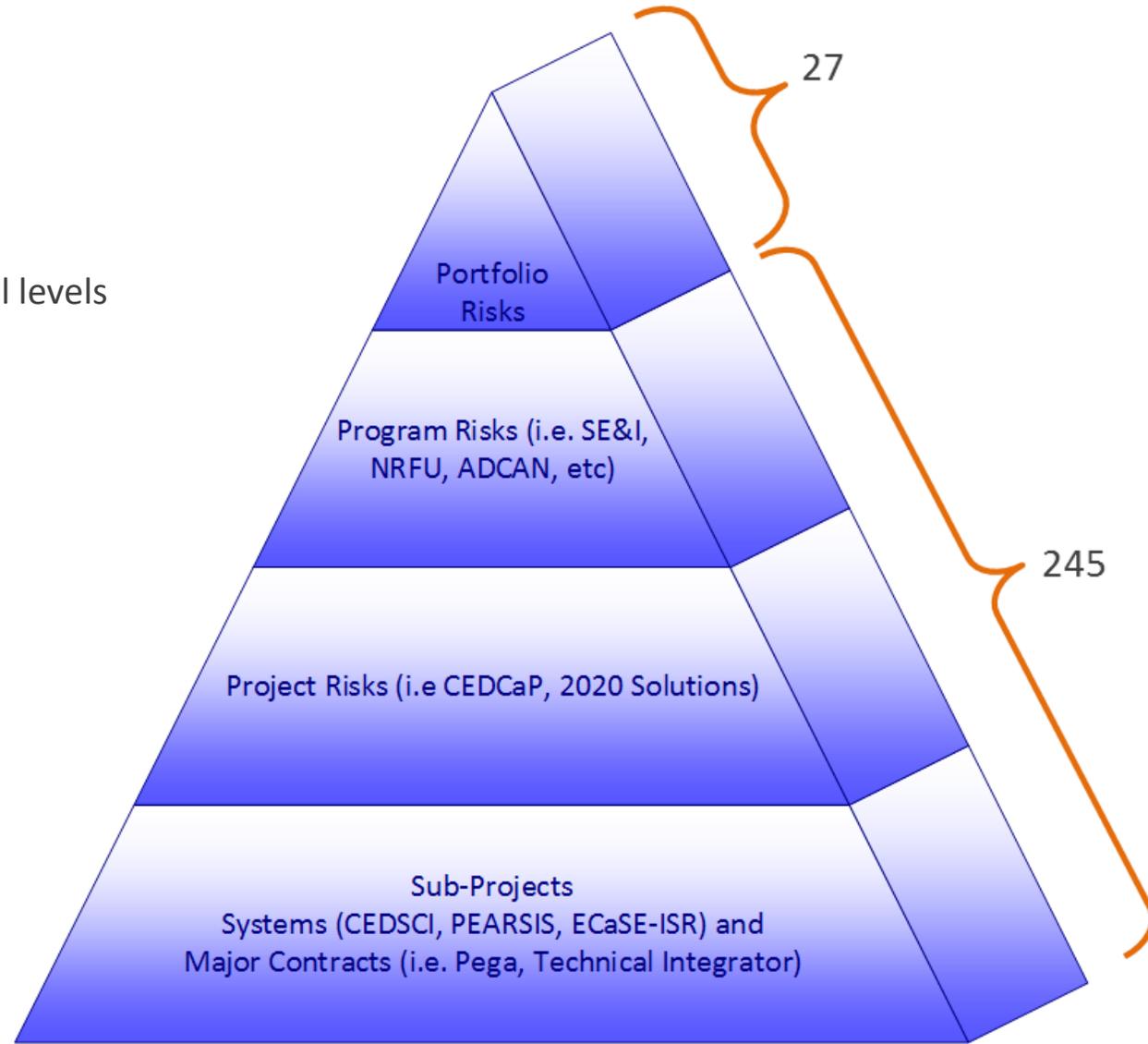
**James B. Treat**

Assistant Director, Decennial Census Programs, Operations and Schedule Management

# Program Updates

## Risks Management – Structure

The risk management process is conducted at all levels of the 2020 Census Portfolio



2020 Census Portfolio Risk Management Process

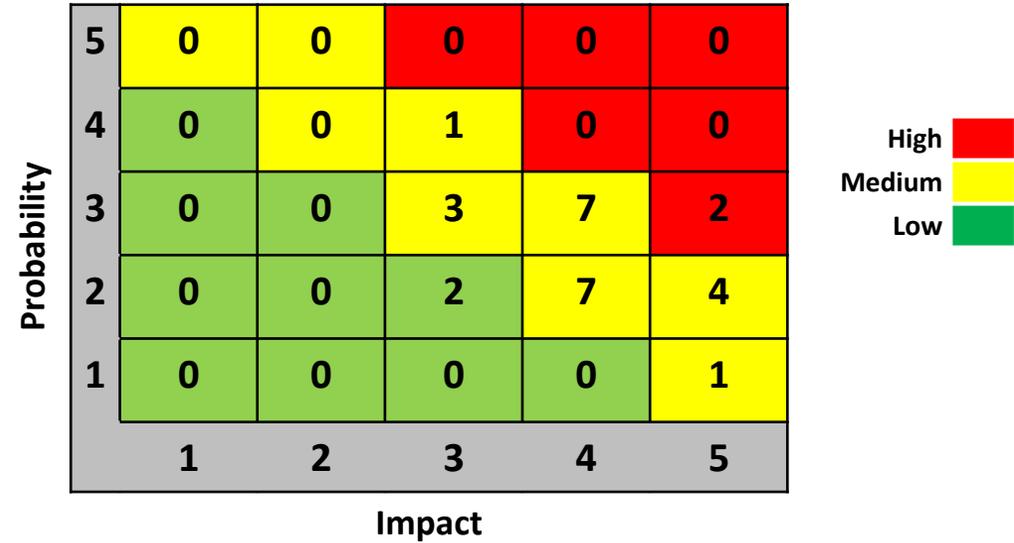
# Program Updates

## Risks

Quadrant	Total Risks	%
<b>RED</b>	<b>2</b>	<b>7.4%</b>
<b>YELLOW</b>	<b>23</b>	<b>85.2%</b>
<b>GREEN</b>	<b>2</b>	<b>7.4%</b>
<b>TOTAL</b>	<b>27</b>	<b>100%</b>

The selected risks that follow represent the major concerns that could affect the design or the successful implementation of the 2020 Census.

- Public Perception of ability to Safeguard Response Data (Probability 3, Impact 5) **RED**
- Cybersecurity Incidents (Probability 3, Impact 5) **RED**



# Program Update

## Program Management



Standing up the Post-Enumeration Survey Team

2020 Census Integrated Master Schedule

Initiated a Formal Performance Management Effort

# Program Update

## 2020 Census Integrated Master Schedule

- Baselined December 14, 2017
- Reporting started December 15, 2017
- Includes 35 Operations and 52 Systems
- Over 25,000 activities with over 42,000 interdependencies

# Program Update

## Performance Management Reporting

- Area Census Office Lease Status
- Local Update of Census Addresses (LUCA)
- ECaSE Productivity and Progress Report
- 2018 Systems ATO Risk Report
- Regional Census Center Build-out
- Data Capture Center Lease/Build-out
- Recruiting Data
- Address Canvassing
- Printing
- Self-Response Rates
- Call Center Lease/Build-out
- Census Questionnaire Assistance
- Update Leave
- Nonresponse Followup
- Group Quarters Operations
- Remote Alaska & Update Enumerate
- Data Capture Activities
- Post-Data Collection Processing
- P.L. 94-171 Data and Geographic Products
- Post-Enumeration Survey Operations
- OMB Clearance Activities
- Scalability & Performance Testing

# Program Update

## Performance Management Report: Area Census Office Lease Status – Wave 1

Executive Report | Week of January 22, 2018

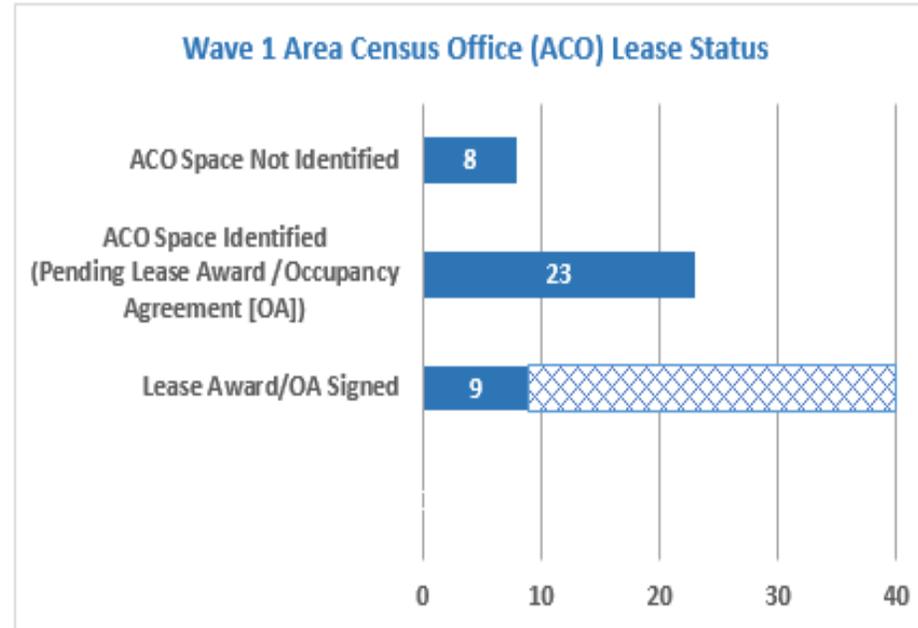
### Wave 1 Area Census Office (ACO) Lease Status

Status:

● On Track

Data current as of:  
January 18, 2018

Completion Date:  
March 31, 2018

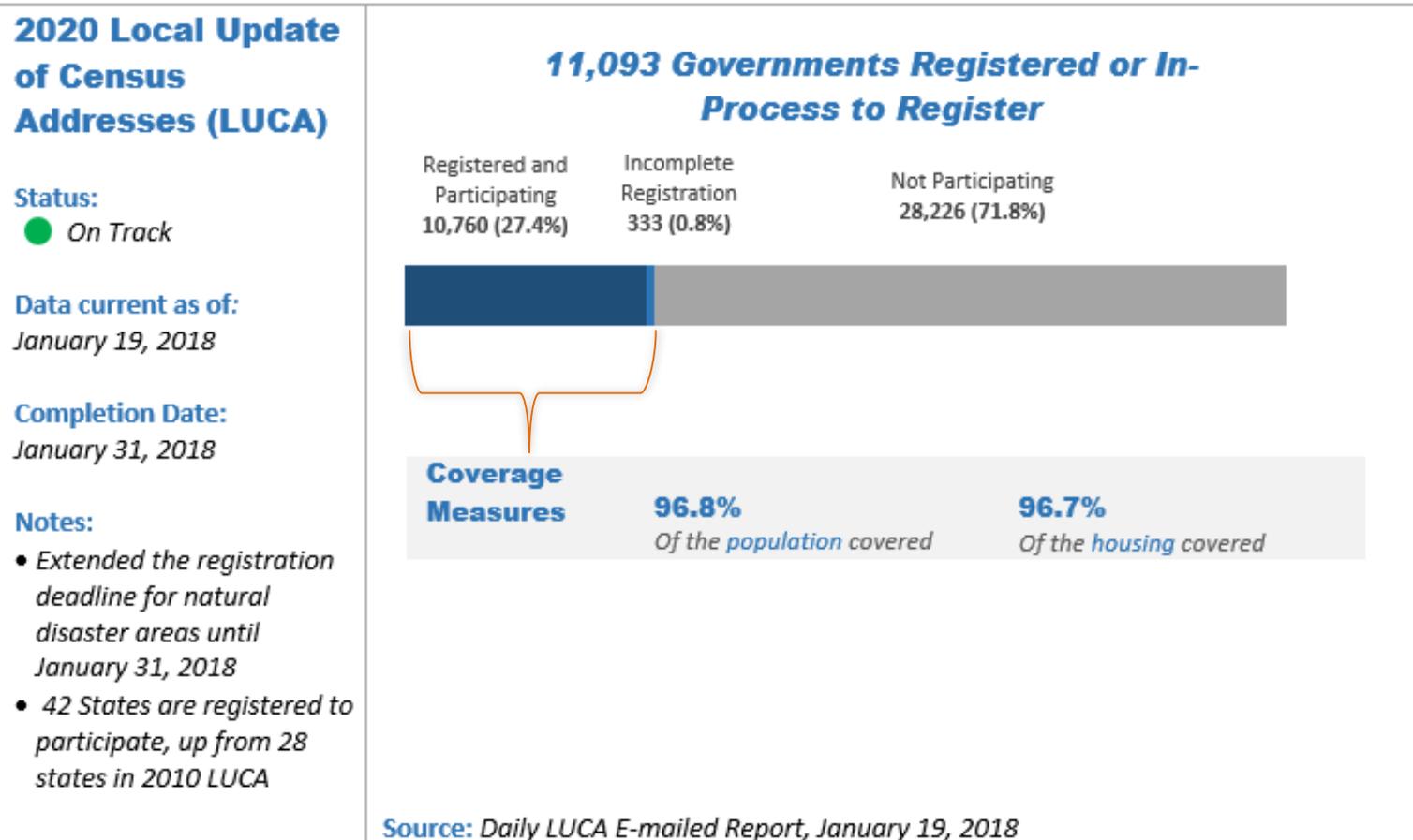


Source: Weekly Field Division Report, January 18, 2018

# Program Update

## Performance Management Report: Local Update of Census Addresses

Executive Report | Week of January 22, 2018



Questions?

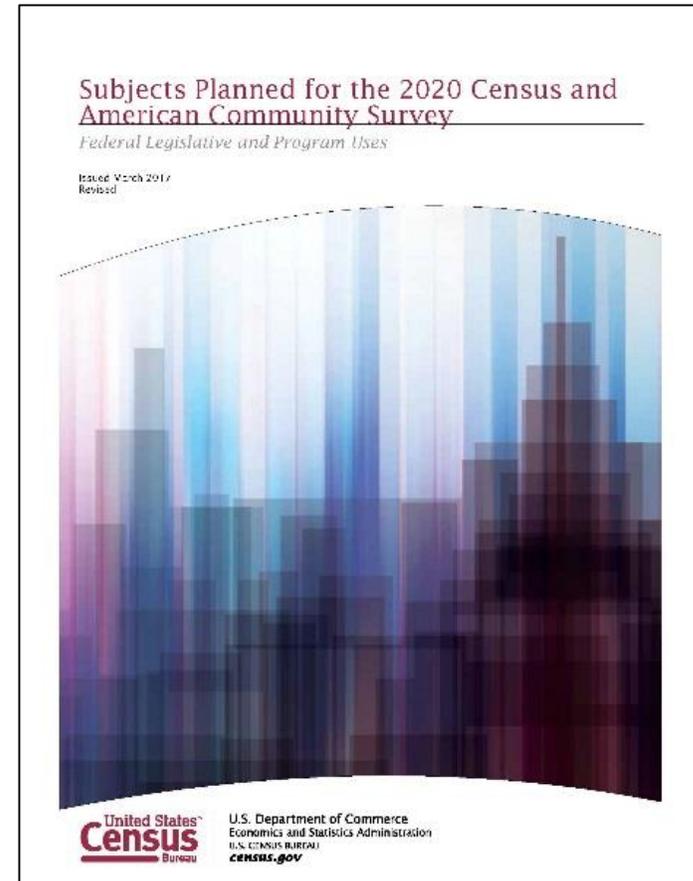
# Questions Planned for the 2020 Census and the American Community Survey: A Process Overview

**Jennifer Ortman**

American Community Survey Office

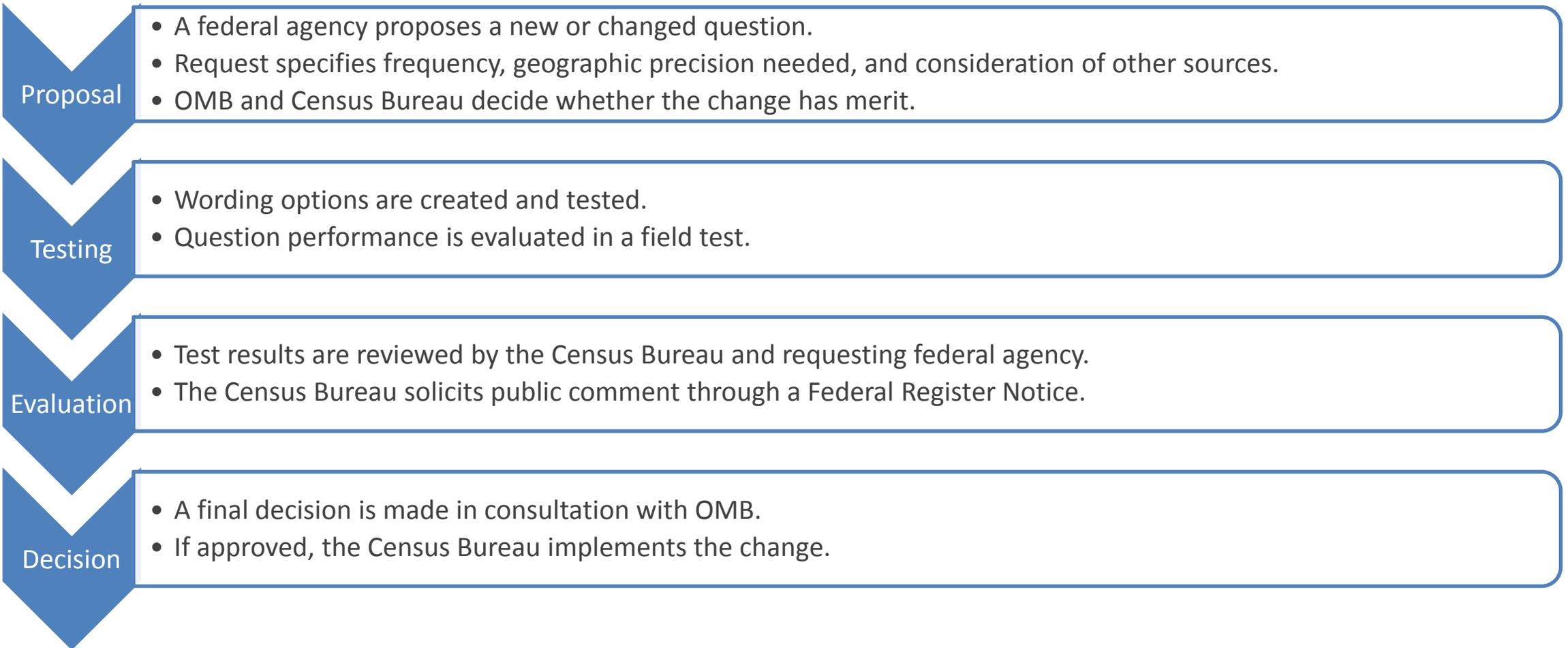
# 2020 Census and ACS Subjects and Questions Requirements

- Section 141(f) of the Census Act requires that the **subjects** included in the next census be submitted to Congress no later than 3 years before the census date.
  - ✓ This document was issued on **March 28, 2017**.
- The Census Act also requires that the **questions** included in the next census be submitted to Congress no later than 2 years before the census date.
  - A document that meets this requirement for the 2020 Census and the ACS will be submitted to Congress by **March 31, 2018**.



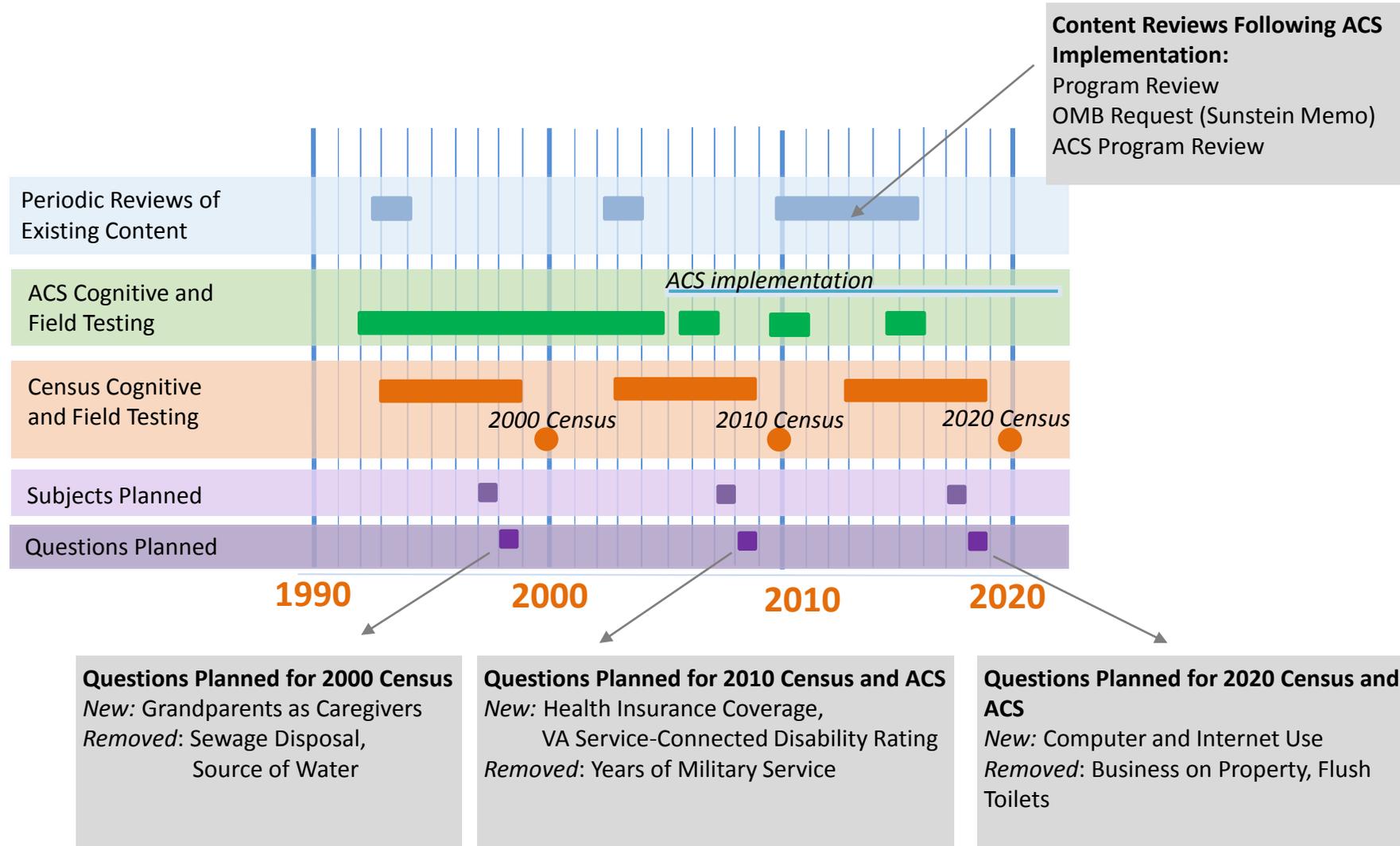
# How a Question Becomes Part of the Census and ACS

## Steps in the Process



# Subjects and Questions Planned for the 2020 Census and ACS

## Decennial Census Content Determination Process



# Subjects Planned for the 2020 Census

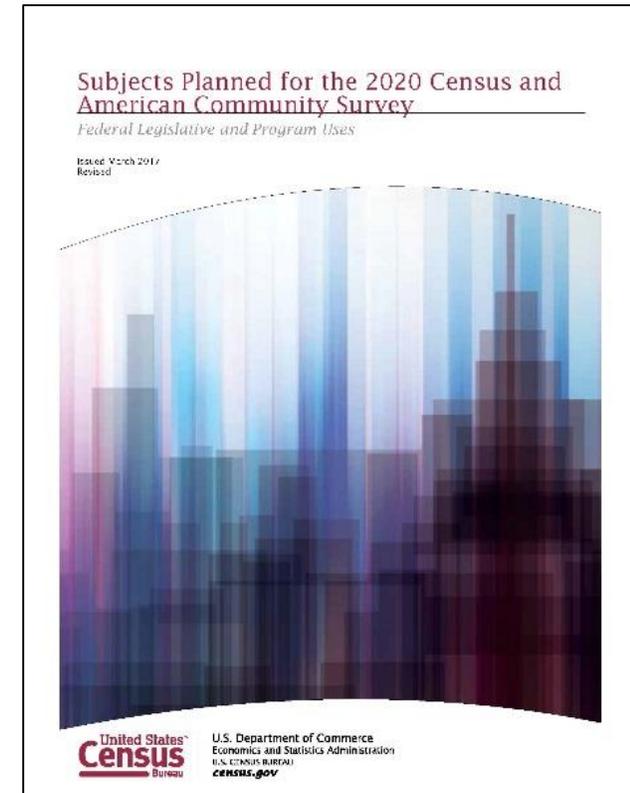
## As submitted in March 2017

### No changes to the 2020 Census subjects

- Same subjects included on the 2010 Census and Census 2000 short form

### 2020 Subjects

- **Operational** (number of people) – asked since 1790
- **Age** – asked since 1790
- **Gender** – asked since 1790
- **Hispanic origin** – asked since 1970
- **Race** – asked since 1790
- **Relationship** – asked since 1880
- **Tenure** (owner/renter) – asked since 1890



# Subjects Planned for the 2020 ACS

## As submitted in March 2017

No changes to the ACS subjects.

(year first asked)

2020 Subjects	Social Subjects	Economic Subjects	Housing Subjects
<b>Operational</b>	<b>Ancestry</b> (1980)	<b>Journey to Work/Commuting</b> (1960)	<b>Acreage &amp; Agricultural Sales</b> (1960)
<b>Age</b>	<b>Disability</b> (1830)	<b>Health Insurance</b> (2008)	<b>Computer &amp; Internet Use</b> (2013)
<b>Gender</b>	<b>Fertility</b> (1890)	<b>Income</b> (1940)	<b>Home Heating Fuel</b> (1940)
<b>Race/Ethnicity</b>	<b>Grandparent Caregivers</b> (2000)	<b>Industry of Worker</b> (1820)	<b>Home Value &amp; Rent</b> (1940)
<b>Relationship</b>	<b>Language Spoken at Home</b> (1890)	<b>Occupation of Worker</b> (1850)	<b>Plumbing Facilities</b> (1940)
<b>Tenure</b>	<b>Marital Status</b> (1880)	<b>Class of Worker</b> (1910)	<b>Kitchen Facilities</b> (1940)
	<b>Marital History</b> (1850)	<b>Labor Force Status</b> (1890)	<b>Telephone Service</b> (1960)
	<b>Migration/Residence One Year Ago</b> (1930)	<b>Work Status Last Year</b> (1880)	<b>Selected Monthly Owner Costs</b> (1940-1990) <i>Utilities, mortgage, etc.</i>
	<b>Place of Birth</b> (1850)		<b>SNAP</b> (2005) <i>Food Stamps</i>
	<b>Citizenship</b> (1820)		<b>Units in Structure</b> (1940)
	<b>Year of Entry</b> (1890)		<b>Rooms</b> (1940)
	<b>School Enrollment</b> (1850)		<b>Bedrooms</b> (1960)
	<b>Educational Attainment</b> (1940)		<b>Vehicles Available</b> (1960)
	<b>Undergraduate Field of Degree</b> (2009)		<b>Year Built</b> (1940)
	<b>Veteran Status</b> (1890)		<b>Year Moved In</b> (1960)
	<b>Veteran Period of Service and VA Service-Connected Disability</b> (2008)		

# Subjects Planned for the 2020 Island Areas Censuses

As submitted in March 2017

2020 Subjects	Social Subjects	Economic Subjects	Housing Subjects
Operational	Ancestry	Commuting	Acreage & Agricultural Sales
Age	Disability	Health Insurance	Computer & Internet Use
Gender	Fertility	Income	Home Heating Fuel
Race/Ethnicity	Grandparent Caregivers	Industry, Occupation, & Class of Worker	Home Value & Rent
Relationship	Language Spoken at Home	Labor Force Status	Plumbing Facilities, Kitchen Facilities, & Telephone Service**
Tenure	Marital Status & Marital History*	Work Status Last Year	Selected Monthly Owner Costs
	Migration/Residence Five Years Ago		Sewage Disposal
	Parent's Place of Birth		SNAP*
	Place of Birth, Citizenship, & Year of Entry		Source of Water
	Reason for Migration		Units in Structure, Rooms, & Bedrooms
	School Enrollment, Educational Attainment & Undergraduate Field of Degree***		Vehicles Available
	Veteran Status, Period of Service, & VA Service-Connected Disability Rating		Year Built & Year Moved In
*New for Island Areas Censuses, but an established subject in the ACS.			
**Propose including flush toilet availability.			
***Propose including completion of a vocational program, which was a subject for the 2010 Census.			
<b>Island Areas Censuses Only</b>			

# 2020 Census and ACS Questions

## Document Development

### 2020 Census and ACS Subjects

**Age**  
Age asked since 1790.

**AGE AND DATE OF BIRTH QUESTIONS ARE USED TO UNDERSTAND THE SIZE AND CHARACTERISTICS OF DIFFERENT AGE GROUPS AND TO PRESENT OTHER DATA BY AGE.**

Age data are used in planning and funding government programs that provide funds or services for specific age groups, such as children, working age adults, women of childbearing age, or the older population. These statistics are also used to enforce laws, regulations, and policies against age discrimination in government programs and in society.

**AGE DATA HELP COMMUNITIES:**

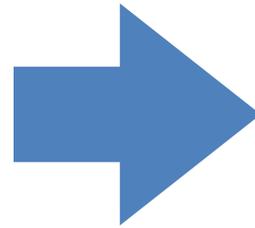
**Provide Assistance to Older Americans**  
Knowing how many people in a community are aged 60 and older helps local officials provide programs and services that enable older adults to remain living safely in their homes and communities (Older Americans Act). Age data are also used in programs that provide services and assistance to seniors, such as financial assistance with utilities (Low Income Home Energy Assistance Program).

**Provide Assistance to Children and Families**  
Knowing the numbers and ages of children in families in combination with other information, such as household income, health insurance status, and poverty status, can help communities enroll eligible families in programs designed to assist them. For example, age data are used in targeted efforts to enroll eligible people in Medicaid and the Children's Health Insurance Program.

**Educate Children and Adults**  
Knowing how many children and adults depend on services through schools helps school districts make long-term building, staffing, and funding decisions. Age in combination with other information, such as disability status, language spoken at home, and poverty status, assists schools in understanding the needs of their students and qualifying for grants that help fund programs for these students (Elementary and Secondary Education Act of 1965).

**Ensure Equal Opportunity**  
Knowing the ages of people in the community in combination with information about housing, employment, and education, helps government and communities enforce laws, regulations, and policies against discrimination based on age. For example, age information is used to analyze the employment status of workers by age (Age Discrimination in Employment Act).

U.S. Census Bureau | Subjects Planned for the 2020 Census and American Community Survey 7



### 2020 Census and ACS Questions

**AGE** asked since 1790.

**4 What is Person 1's age and what is Person 1's date of birth?**  
Please report babies as age 0 when the child is less than 1 year old.  
Print numbers in boxes.

Age (in years)      Month      Day      Year of birth

AGE AND DATE OF BIRTH QUESTIONS ARE USED TO UNDERSTAND THE SIZE AND CHARACTERISTICS OF DIFFERENT AGE GROUPS AND TO PRESENT OTHER DATA BY AGE.

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Pre-decisional

U.S. Census Bureau | Questions Planned for the 2020 Census and American Community Survey

# Preparing the Questions Planned for the 2020 Census and ACS

## Planned Timeline

Activity	Timeline	
Federal agencies provide updates to Federal use documentation	March – June 2016	✓
Incorporate feedback into draft Planned Subjects document	May – September 2016	✓
Provide updates and conduct briefings	January – March 2017	✓
Planned Subjects document delivered*	No later than March 31, 2017	✓
Draft Planned Questions document	September 2017 – January 2018	
Provide updates and conduct briefings	January – March 2018	
Planned Questions document delivered*	No later than March 31, 2018	
American Community Survey Federal Register Notices (public comment period)	December 2017 – February 2018, March – April 2018	
2020 Census Federal Register Notices (public comment period)	May – July 2018, August – September 2018	

\*2020 Island Areas Censuses Subjects and Questions are submitted via letter in the same period.

Questions?

# Update on Language Services Operation

**Jennifer Kim**

Decennial Census Management Division

# 2010 Census Non-English Support Background

Material	Non-English Language(s)
Paper Mailing & Bilingual Questionnaires	Spanish
Telephone Assistance	Spanish, Chinese, Korean, Vietnamese, Russian
Fulfillment & Be Counted Questionnaires	
Field Materials	Spanish
Language Guides and Videos	59
Language Identification Card	50

# Preparations for 2020 Census

## Background

	Key Recommendations from 2010	Implementation	Key Players for 2020
Translation	<ul style="list-style-type: none"> <li>• Create a centralized translation area</li> <li>• Hire in-house translation experts</li> <li>• Better integrate with communications</li> </ul>	<ul style="list-style-type: none"> <li>• Establishment of Decennial Translation Branch</li> <li>• Adherence to industry standards for translation and terminology research</li> <li>• Use of technology for translation consistency and efficiency</li> </ul>	Census Bureau <ul style="list-style-type: none"> <li>• Content, Language and Data Products Branch</li> <li>• Decennial Translations Branch</li> </ul> Contractors <ul style="list-style-type: none"> <li>• Prisma International (translation)</li> <li>• RTI International (pre-testing)</li> </ul>
Research	<ul style="list-style-type: none"> <li>• Conduct more extensive cognitive testing</li> </ul>	<ul style="list-style-type: none"> <li>• Usability and cognitive testing</li> <li>• Monitoring of language trends</li> <li>• Field testing: 2014—2018</li> </ul>	
Advisory Input	<ul style="list-style-type: none"> <li>• Engage the National Advisory Committee (NAC)</li> </ul>	<ul style="list-style-type: none"> <li>• NAC Language Working Group</li> <li>• Consultations with federal and industry experts</li> </ul>	

# 2020 Census Non-English Support Changes

## Data Collection Instruments and Materials

Instrument/Material	2020 Non-English Support	2010 Non-English Support
<p>Internet Self-Response</p>	<p>12 Non-English Languages</p> <ul style="list-style-type: none"> <li>Spanish, Chinese (Simplified), Vietnamese, Korean, Russian, Arabic, Tagalog, Polish, French, Haitian Creole, Portuguese, Japanese</li> </ul> <p>Language Selection Criteria: 60,000 or more housing units</p>	<p>Not in Scope</p> <p><i>Fulfillment and Be Counted Questionnaires in 5 non-English languages, available via phone request or pickup: Spanish, Chinese (Simplified), Korean, Vietnamese, Russian</i></p> <p><i>Language Selection Criteria: 100,000 or more housing units</i></p>
<p>Census Questionnaire Assistance</p>	<p>12 Non-English Languages</p> <ul style="list-style-type: none"> <li>Spanish, Chinese (Mandarin and Cantonese), Vietnamese, Korean, Russian, Arabic, Tagalog, Polish, French, Haitian Creole, Portuguese, Japanese</li> </ul> <p>Telecommunication Device for the Deaf also available</p> <p>Language Selection Criteria: 60,000 or more housing units</p>	<p>5 Non-English Languages</p> <ul style="list-style-type: none"> <li>Spanish, Chinese (Mandarin and Cantonese), Korean, Vietnamese, Russian</li> </ul> <p>Telecommunication Device for the Deaf also available</p> <p>Language Selection Criteria: 100,000 or more housing units</p>

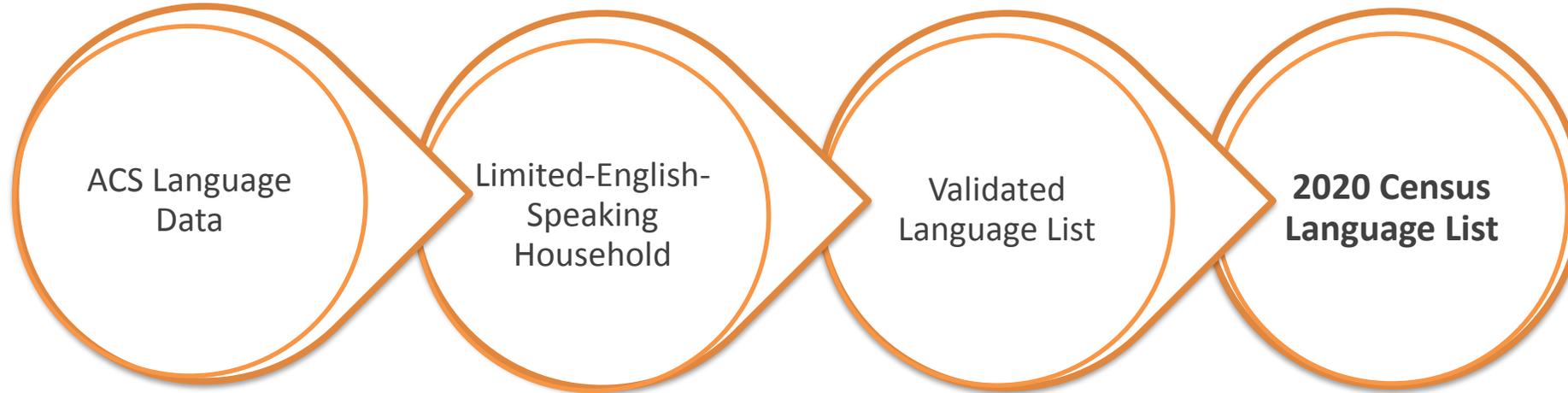
# 2020 Census Non-English Support Changes

## Data Collection Instruments and Materials (cont'd)

Instrument/Material	2020 Non-English Support	2010 Non-English Support
Enumerator Instrument	Spanish (hand-held)	Not in scope
Language Glossary	59 Non-English Languages	Not in scope
Language Identification Card	59 Non-English Languages	50 Non-English Languages
Language Guides (Video and Print)	59 Non-English Languages  Includes American Sign Language, braille and large print	59 Non-English Languages  Includes American Sign Language, braille and large print
Bilingual Paper Questionnaire	Spanish	Spanish
Bilingual Mailing	Spanish	Spanish
Field Enumeration Materials	Spanish	Spanish

# 2020 Census Language Program

## Language Determination



### ACS Language Data (2016 5-year estimates)

- Languages spoken for all households

### Limited-English-Speaking Household Language Data

- Languages spoken among households where **no one 14 years or older who speaks English only or speaks English “very well”**
- Cutoff at 2,000 or more limited-English-speaking households

### Validate Languages for 2020

- Verified with regional and state level data
- Assessed translation feasibility

# 2020 Census Language Program

## Language List: All Non-English Languages

Spanish	Italian	Khmer	Tamil	Croatian
Chinese	Farsi	Nepali	Navajo	Bulgarian
Vietnamese	German	Urdu	Hungarian	Twi
Korean	Armenian	Romanian	Hebrew	Lithuanian
Russian	Hindi	Telugu	Malayalam	Yoruba
Arabic	Ukrainian	Burmese	Swahili	Czech
Tagalog	Bengali	Punjabi	Yiddish	Igbo
Polish	Greek	Lao	Indonesian	Marathi
French	Amharic	Hmong	Serbian	Sinhala
Haitian Creole	Somali	Albanian	Tigrinya	Slovak
Portuguese	Thai	Turkish	Ilocano	American Sign Language
Japanese	Gujarati	Bosnian	Dutch	

# 2020 Census Language Program

## Language List: Internet Self-Response, Census Questionnaire Assistance

<i>Language</i>	<i>Limited-English-Speaking Households (MOE)</i>	<i>Cumulative Percent of Total Limited-English-Speaking Households</i>
<b>1</b> Spanish	3,186,101 (12,273)	60.3
<b>2</b> Chinese	447,785 (3,571)	68.8
<b>3</b> Vietnamese	174,439 (2,844)	72.1
<b>4</b> Korean	166,917 (2,619)	75.2
<b>5</b> Russian	145,174 (2,497)	78.0
<b>6</b> Arabic	89,739 (2,255)	79.7
<b>7</b> Tagalog	69,772 (1,664)	81.0
<b>8</b> Polish	65,603 (1,665)	82.3
<b>9</b> French	64,108 (1,620)	83.5
<b>10</b> Haitian Creole	63,220 (1,918)	84.7
<b>11</b> Portuguese	62,881 (2,063)	85.9
<b>12</b> Japanese	59,586 (1,682)	87.0
<b>13</b> Italian	54,096 (1,372)	88.0
<b>14</b> Farsi	37,657 (1,392)	88.7
<b>15</b> German	35,468 (1,110)	89.4

2010 (100,000 or more HUs)

60,000 or more HUs

# 2020 Census Language Program

## Summary of Non-English Support

<p>Internet Self-Response &amp; Census Questionnaire Assistance</p>	<ul style="list-style-type: none"><li>• 12 Non-English Languages</li></ul>
<p>Language Guides (Video and Print) Language Glossaries Language Identification Card</p>	<ul style="list-style-type: none"><li>• 59 Non-English Languages</li><li>• Language Guides include American Sign Language, braille, large print</li></ul>
<p>Paper Questionnaire &amp; Mailing Materials Field Enumeration Instrument &amp; Materials</p>	<ul style="list-style-type: none"><li>• Spanish</li></ul>
<p>Communications and Partnership</p>	<ul style="list-style-type: none"><li>• Advertising, Partnership and Promotional Materials in 12 Non-English Languages (minimum)</li><li>• Procedures and Materials to Support Partnership Specialists and Partners</li><li>• Support Materials for Regional Offices and Partnership Specialists</li></ul>





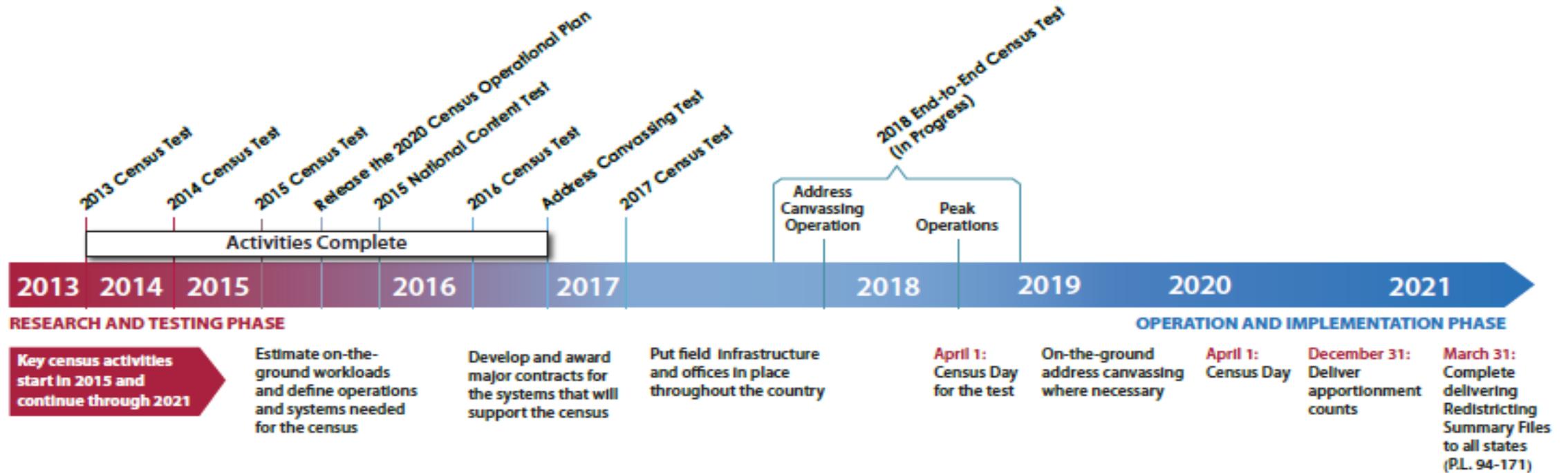
# 2018 End-to-End Census Test: Peak Operations

**Deborah Stempowski**

Decennial Census Management Division

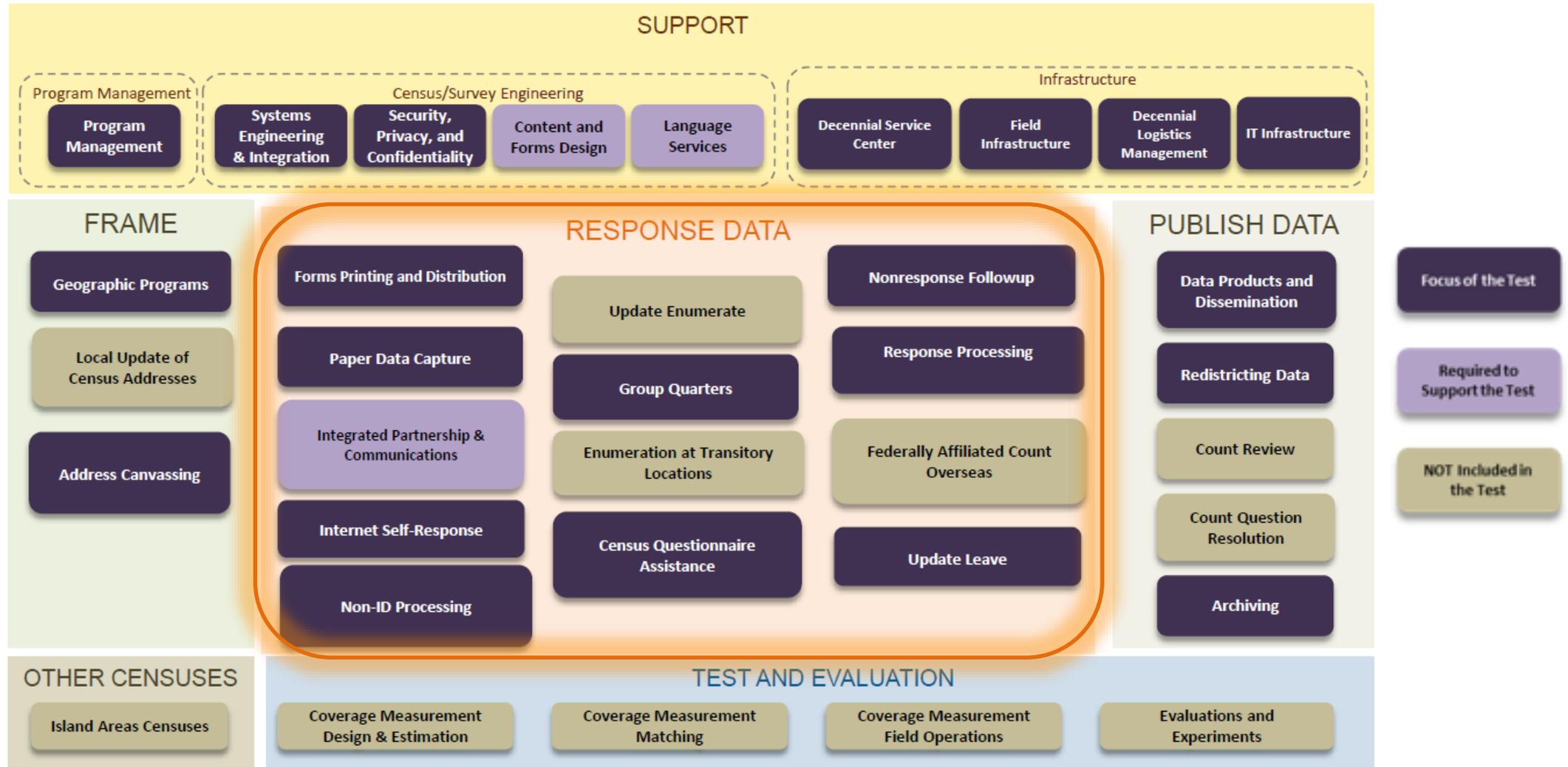
# The 2020 Census

## Where Are We Today?



# 2018 End-to-End Census Test

## Operational Scope



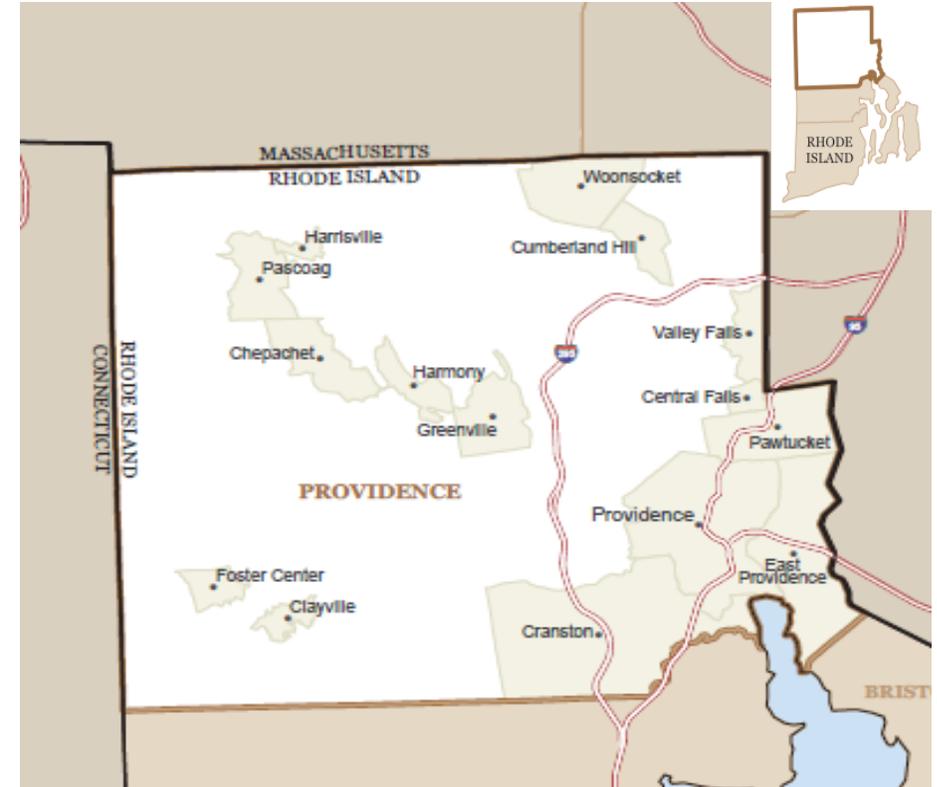
# 2018 End-to-End Census Test

## Peak Operations Overview

### Peak Operations

- Validate that the operations in scope for the 2018 End-to-End Census Test are ready to go into production for the 2020 Census
- Test and validate major operational threads, procedures, systems, and infrastructure (IT and non-IT) together to ensure proper integration and conformance with functional and nonfunctional requirements
- Produce a prototype of geographic and data products

### Providence County, RI



# 2018 End-to-End Census Test

## Peak Operations: Self-Response

### Objectives

- Maximize online response through contact strategies and improved access for respondents
- Validate the 2020 self-response contact strategy

### Methodology

- Deploy a staggered mail strategy
- Collect response data via the Internet to reduce paper and in-person visits, and maximize online response via contact strategies and improved access to respondents
- 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-assigned User ID
- Provide questionnaire assistance for respondents by answering questions about specific items or other frequently asked questions; provide an option for callers to complete an interview over the telephone

### Approach

- Integrates Enterprise Censuses and Surveys Enabling (ECaSE) Internet Self-Response (ISR) application and the Census Questionnaire Assistance Solution
- Uses ECaSE Survey Operational Control System to control and manage workload
- Implements Real-Time Non-ID processing
- Utilize our paper data capture solutions to support paper responses

# 2018 End-to-End Census Test Optimizing Self-Response

## The 2010 Census

Only paper questionnaires

This is the official form for all the people at this address. It is quick and easy, and your answers are protected by law.

**Start here**

Use a blue or black pen.

The Census must count every person living in the United States on April 1, 2010.

Before you answer Question 1, count the people living in this house, apartment, or mobile home using our guidelines.

- Count all people, including babies, who live and sleep here most of the time.
- The Census Bureau also conducts counts in institutions and other places, so:
  - Do not count anyone living away either at college or in the Armed Forces.
  - Do not count anyone in a nursing home, jail, prison, detention facility, etc., on April 1, 2010.
  - Leave these people off your form, even if they will return to live here after they leave college, the nursing home, the military, jail, etc. Otherwise, they may be counted twice.

The Census must also include people without a permanent place to stay, so:

- If someone who has no permanent place to stay is staying here on April 1, 2010, count that person. Otherwise, he or she may be missed in the census.

**1. How many people were living or staying in this house, apartment, or mobile home on April 1, 2010?**

Number of people =

**2. Were there any additional people staying here April 1, 2010 that you did not include in Question 1? Mark 'X' all that apply.**

- Children, such as newborn babies or baby children
- Relatives, such as adult children, cousins, or in-laws
- Nonrelatives, such as roommates or live-in baby sitters
- People staying here temporarily
- No additional people

**3. Is this house, apartment, or mobile home —** Mark 'X' ONE box.

- Owned by you or someone in this household with a mortgage or loan? Include home equity loans.
- Owned by you or someone in this household free and clear (without a mortgage or loan)?
- Rented?
- Occupied without payment of rent?

**4. What is your telephone number? We may call if we don't understand an answer.**

Area Code + Number  -  -  -

OMB No. 0607-0919-C Approval Expires 12/31/2011.  
Form D-51a-S-210a

U.S. DEPARTMENT OF COMMERCE  
Economic and Statistics Administration  
U.S. CENSUS BUREAU

**5. Please provide information for each person living here. Start with a person living here who owns or rents this house, apartment, or mobile home. If the owner or renter lives somewhere else, start with any adult living here. This will be Person 1.**

What is Person 1's name? Print name below.

Last Name

First Name  MI

**6. What is Person 1's sex? Mark 'X' ONE box.**

Male  Female

**7. What is Person 1's age and what is Person 1's date of birth? Please report babies as age 0 unless the child is less than 1 year old. Print numbers in boxes.**

Age on April 1, 2010 (Month) Day Year of birth

→ NOTE: Please answer BOTH Question 8 about Hispanic origin and Question 9 about race. For this census, Hispanic origins are not races.

**8. Is Person 1 of Hispanic, Latino, or Spanish origin?**

- No, not of Hispanic, Latino, or Spanish origin
- Yes, Mexican, Mexican Am., Chicano
- Yes, Puerto Rican
- Yes, Cuban
- Yes, another Hispanic, Latino, or Spanish origin — Print origin, for example, Argentine, Dominican, Dominican Republic, Salvadoran, Spanish, and so on.

**9. What is Person 1's race? Mark 'X' one or more boxes.**

- White
- Black, African Am., or Negro
- American Indian or Alaska Native — Print name of enrolled or principal tribe
- Asian Indian
- Chinese
- Filipino
- Other Asian — Print race, for example, Hmong, Laotian, Thai, Pakistani, Cambodian, and so on.
- Japanese
- Korean
- Vietnamese
- Other Pacific Islander — Print race, for example, Fijian, Tongan, and so on.
- Native Hawaiian
- Guamanian or Chamorro
- Samoan
- Other Pacific Islander — Print race, for example, Fijian, Tongan, and so on.
- Some other race — Print race

**10. Does Person 1 sometimes live or stay somewhere else?**

- No
- Yes — Mark 'X' all that apply.
  - In college housing
  - In the military
  - At a seasonal or second residence
  - For child custody
  - In jail or prison
  - In a nursing home
  - For another reason

→ If more people were counted in Question 1, continue with Person 2.

## The 2020 Census

Internet, phone, and paper response options

2017 Census Test

Welcome to the 2017 Census Test

The U.S. Census Bureau is testing modern and cost-efficient methods for the population to meet its legal obligation to conduct the 2020 Census. Whether through the internet, telephone, traditional paper questionnaire, or in-person visit, the Census Bureau is committed to making the mandatory census quick, easy, and safe for all to participate.

**Why should I respond?**

- The information you provide will help determine the content and design of the 2020 census.
- It's quick, secure, and confidential. Your information and privacy are protected.
- It's quick and easy. This survey will take about 10 minutes to complete.

**What to expect?**

The Census Bureau will generate questions about the household, including how many people live in the house and if the house is owned or rented. For each person, we also ask for the person's sex, date of birth, race, and relationship to the respondent.

On the Road to the 2020 Census

U.S. Census Bureau Notice and Consent Form

You are accessing a United States Government computer network. Any information you enter into this system is confidential and may be used by the Census Bureau for statistical purposes, as well as for other uses related to the operation and maintenance of the system, and for your privacy protection. Visit our online privacy webpage at <http://www.census.gov/2017censustest/privacy-policy.html> for this system's information privacy policy.

To help our website remain accurate and available to you and all other visitors, we monitor network traffic to identify and thwarted attempts to upload or change information or otherwise cause damage to the website. You are not using the website computers for commercial purposes. If you are a violation of these rules and can be punished with fines or imprisonment (PUBLIC LAW 106-368) will apply to you. See the Privacy Policy at <http://www.census.gov/2017censustest/privacy-policy.html>.

OMB No. 0607-0919 | Approval Expiration Date: 12/31/2018



2017 Census Test

Start here OR go online at [www.census.gov](http://www.census.gov)

U.S. DEPARTMENT OF COMMERCE  
Economic and Statistics Administration  
U.S. CENSUS BUREAU

**Start here OR go online at [www.census.gov](http://www.census.gov) to complete the 2017 Census Test.**

Use a blue or black pen.

1. How many people were living or staying in this house, apartment, or mobile home on April 1, 2017? Mark 'X' all that apply.

- Children, such as newborn babies or baby children
- Relatives, such as adult children, cousins, or in-laws
- Nonrelatives, such as roommates or live-in baby sitters
- People staying here temporarily
- No additional people

2. Were there any additional people staying here April 1, 2017 that you did not include in Question 1? Mark 'X' all that apply.

- Children, such as newborn babies or baby children
- Relatives, such as adult children, cousins, or in-laws
- Nonrelatives, such as roommates or live-in baby sitters
- People staying here temporarily
- No additional people

3. In this house, apartment, or mobile home — Mark 'X' ONE box.

- Owned by you or someone in this household with a mortgage or loan? Include home equity loans.
- Owned by you or someone in this household free and clear (without a mortgage or loan)?
- Rented?
- Occupied without payment of rent?

4. What is your telephone number? We may call if we don't understand an answer.

Area Code + Number  -  -  -

OMB No. 0607-0919-C Approval Expires 12/31/2017.  
Form D-51a-S-210a

U.S. DEPARTMENT OF COMMERCE  
Economic and Statistics Administration  
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First Name  MI

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Male  Female

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Age on April 1, 2017 (Month) Day Year of birth

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**8. Is Person 1 of Hispanic, Latino, or Spanish origin?**

- No, not of Hispanic, Latino, or Spanish origin
- Yes, Mexican, Mexican Am., Chicano
- Yes, Puerto Rican
- Yes, Cuban
- Yes, another Hispanic, Latino, or Spanish origin — Print origin, for example, Argentine, Dominican, Dominican Republic, Salvadoran, Spanish, and so on.

**9. What is Person 1's race? Mark 'X' one or more boxes.**

- White
- Black, African Am., or Negro
- American Indian or Alaska Native — Print name of enrolled or principal tribe
- Asian Indian
- Chinese
- Filipino
- Other Asian — Print race, for example, Hmong, Laotian, Thai, Pakistani, Cambodian, and so on.
- Japanese
- Korean
- Vietnamese
- Other Pacific Islander — Print race, for example, Fijian, Tongan, and so on.
- Native Hawaiian
- Guamanian or Chamorro
- Samoan
- Other Pacific Islander — Print race, for example, Fijian, Tongan, and so on.
- Some other race — Print race

**10. Does Person 1 sometimes live or stay somewhere else?**

- No
- Yes — Mark 'X' all that apply.
  - In college housing
  - In the military
  - At a seasonal or second residence
  - For child custody
  - In jail or prison
  - In a nursing home
  - For another reason

→ If more people were counted in Question 1, continue with Person 2.

# 2018 End-to-End Census Test

## Self-Response Mail Strategy

### Self-Response

- Self-response contact strategy:
  - Two-panel design – Internet First (invitation letter on first contact) and Internet Choice (questionnaire on first contact)
- Languages: English and bilingual (English/Spanish)
- ~275,000 housing units in sample

March							April						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	①	2	3	4	5	6	7
4	5	6	7	8	9	10	8	9	10	11	12	13	14
11	12	13	14	15	16	17	15	16	17	18	19	20	21
18	19	20	21	22	23	24	22	23	24	25	26	27	28
25	26	27	28	29	30	31	29	30					

Panel	Number	Percent
Internet First	~ 188,000	68.4
Internet Choice	~ 87,000	31.6

Language	Number	Percent
English	~ 200,000	72.6
Bilingual (English/Spanish)	~ 76,000	27.4

# 2018 End-to-End Census Test

## Self-Response Mail Strategy (Continued)

Panel	Cohort	Mailing 1 Letter (Internet First) or Letter + Questionnaire (Internet Choice)	Mailing 2 Letter	Mailing 3* Postcard	Mailing 4* Letter + Questionnaire	Mailing 5* “It’s not too late” Postcard
Internet First	1	March 16, 2018	March 20, 2018	March 30, 2018	April 12, 2018	April 23, 2018
	2	March 20, 2018	March 23, 2018	April 3, 2018	April 16, 2018	April 26, 2018
	3	March 23, 2018	March 27, 2018	April 6, 2018	April 19, 2018	April 30, 2018
Internet Choice	N/A	March 16, 2018	March 20, 2018	March 30, 2018	April 12, 2018	April 23, 2018

(\*) Targeted only to nonrespondents

# 2018 End-to-End Census Test

## Census Questionnaire Assistance



### Respondents

Contact Census Questionnaire Assistance call centers for assistance



### Census Questionnaire Assistance (CQA)

Provide assistance via self-service and/or customer service representatives

### Supported Languages

- English
- Spanish
- Chinese (Mandarin and Cantonese)
- Vietnamese
- Korean
- Russian
- Arabic
- Tagalog

### Jacksonville, FL Call Center

- 63 customer service representatives for 2018



### Sandy, UT Call Center

- 49 customer service representatives for 2018



# 2018 End-to-End Census Test

## Peak Operations: Recruiting, Training, and Onboarding

Recruitment/Training	Status
Actual Number Recruited*	2,040
Goal to invite to training	1,166
Expected to Complete Training and be Deployed to the Field	1,049

\*Actual number recruited as of January 22, 2018

# 2018 End-to-End Census Test

## Key Milestones

Activity	Date	
Conduct In-Office Address Canvassing	October 27, 2016 – February 2, 2017	✓
Open Regional Census Centers	January 3, 2017	✓
Begin Address Canvassing Field Staff Recruitment	March 10, 2017	✓
Open Area Census Offices	April – July 2017	✓
Conduct In-Field Address Canvassing	August 28 – October 6, 2017	✓
Conduct Self-Response	March 16 – August 31, 2018	
Conduct Internet Self-Response, including Non-ID Processing	March 16 – July 31, 2018	
Conduct Census Questionnaire Assistance	March 16 – July 31, 2018	
Conduct Paper Data Capture	March 16 – August 31, 2018	
Census Day	April 1, 2018	
Conduct Update Leave	April 9 – May 4, 2018	
Conduct Nonresponse Followup	May 9 – July 24, 2018	
Conduct Nonresponse Followup Reinterview	May 10 – July 31, 2018	
Conduct Group Quarters Advance Contact	June 18 – July 10, 2018	
Conduct Group Quarters Service Based Enumeration	July 25 – July 27, 2018	
Conduct Group Quarters Enumeration	July 30 – August 24, 2018	
Publish Prototype P.L. 94-171 Data and Geographic Products	April 1, 2019	

Questions?

# Update on the Partnership with the United States Postal Service

**Gregory Hanks Jr.**  
Geography Division

# United States Postal Service and Census Bureau Partnership Objectives

The following objectives support several cross-cutting initiatives that will lead to a sustainable and durable partnership structure.

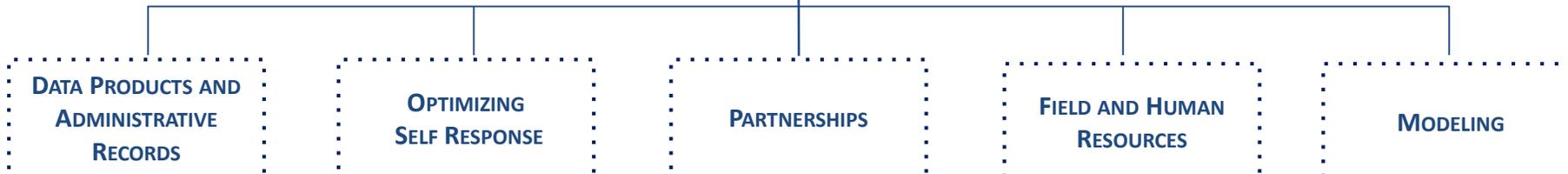
“ JOINTLY BUILD AND MAINTAIN AN ON-GOING, SUSTAINABLE, AND PRODUCTIVE PARTNERSHIP ORGANIZATION THROUGH ACTIVE STEWARDSHIP. ”

“ ACHIEVE COLLABORATIVE VALUE BY WORKING TOGETHER ACROSS SHARED LINES OF BUSINESS AT THE ENTERPRISE LEVEL. ”

CAPTURED IN A RECENTLY SIGNED LETTER OF INTENT



Inter-Agency Working Groups



REPRESENTATIVES FROM DECENNIAL CENSUS PROGRAMS DIRECTORATE, COMMUNICATIONS DIRECTORATE, FIELD DIVISION, HUMAN RESOURCES DIVISION, POLICY OFFICE, NEW YORK REGIONAL OFFICE, NATIONAL PROCESSING CENTER

# United States Postal Service and Census Bureau Partnership

## Engagements during the 2018 End-to-End Census Test



### Enumeration Pilot

A pilot will test the use of postal carriers as enumerators as part of Nonresponse Followup.



### Community Engagement

A marketing and outreach campaign will place signage, flyers, and other materials in Post Offices to encourage response.



### Interactive Kiosk

Interactive kiosks will be enabled in Post Offices to allow customers to fill out their Census questionnaire.



### Informed Delivery

A subscription service where customers receive a preview of their mail via email; enables interaction with some mail content via a barcode or similar technology

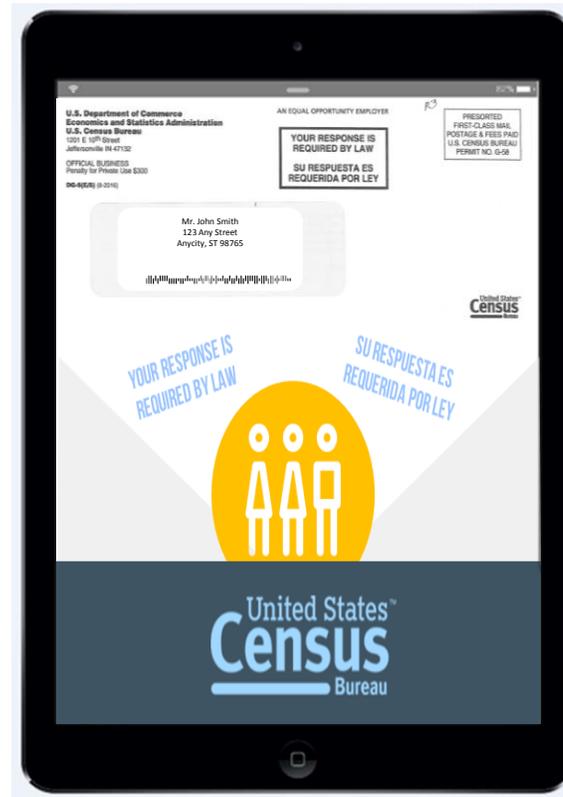
# United States Postal Service and Census Bureau Partnership

## Informed Delivery

Informed Delivery is a consumer-facing feature that gives eligible residential consumers the ability to see a daily digital preview of their household's mail arriving soon.



Users receive a morning **email** that includes **grayscale images of the exterior, address side** of incoming letter-sized mailpieces (processed through automated equipment); users can also **view images on the dashboard** at [informedelivery.usps.com](http://informedelivery.usps.com)



If a Mailer participates in the Informed Delivery operational test, **color images and interactive content** will also be shown (Letters or Flats)

**Informed Delivery is now available to consumers nationwide.**

The Census Bureau held an Informed Delivery Registration Drive on October 25, 2017.

# United States Postal Service and Census Bureau Partnership

## Self-Response Kiosks

**Rationale:** USPS possesses advanced retail infrastructure that is well accessed by the general public.

**Pilot:** To test the feasibility and use of USPS retail locations to house self-response kiosks, as well as brochures, flyers, and signs to advertise the self-response option to complete the census questionnaire online.

The kiosks could be a tablet or other device with Internet connection that allows for Post Office customers to access the census questionnaire in a postal retail location. Each location would be equipped with a tablet, stand, connectivity, and physical security.



Questions?

Break

# Recruiting and Assessment Demonstration

**Viola Lewis Willis**

Decennial Contracts Execution Office

# Update on 2020 Census Major Contracts

**Luis Cano**

Decennial Contracts Execution Office

# 2020 Census Acquisition Strategy

## Supporting Key 2020 Innovation Areas

### Four Key Innovation Areas



Reengineering  
Address  
Canvassing



Optimizing  
Self-Response



Utilizing  
Administrative  
Records and  
Third-Party Data



Reengineering  
Field Operations

- Expands the use of information technology and the Internet to support **Optimizing Self-Response**
- Enables **Field Reengineering** through automated processes to increase efficiencies
- Equips Field Data Collection by providing Mobile Devices and capabilities
- Provisions and maintains IT equipment for Field Offices
- Provides critical operational control systems
- Uses Technical Integrator to seamlessly integrate the Systems of Systems

# Optimizing Self-Response

## Key Contract Updates

### Integrated Communications Contract (ICC)

- Plan, design, integrate, produce, implement, monitor, and assess an integrated communications program for the 2020 Census
- By implementing an integrated communications campaign, it is anticipated that awareness of the decennial census will increase, promoting self-response, reducing Field workload for nonresponse follow-up operations, and improve response rates for targeted audiences
- **Awarded: August 24, 2016**
- **Awardee: Young & Rubicam (Y&R)**

### Census Questionnaire Assistance (CQA)

- Create, test and operate a multi-channel contact center to provides primary support for assistance in completing paper forms, and Internet Self-Response (ISR) and includes Interactive Voice Response (IVR)
- Enables respondents to complete the interview over the telephone and supports Census Outbound Operations to verify respondent information as a follow up activity for reinterview and quality checking
- **Awarded: July 11, 2016**
- **Awardee: General Dynamics Information Technology (GDIT)**

### 2020 Census Printing and Mailing

- Provide primary print production and mailing services contract for the 2018 End-to-End Census Test and the 2020 Census; will print and distribute a variety of materials in support of self-response, Update Leave, and Nonresponse Followup operations
- Materials to be produced include questionnaires; letters inviting households to respond to the Census online, by phone, or by mail; reminder letters and postcards; and language inserts
- **Awarded: October 16, 2017**
- **Awardee: Cenveo**

# Reengineering Field Operations

## Key Contract Updates

### Census Schedule A Human Resources and Recruiting, Payroll System (C-SHaRPS) - Recruiting & Assessment (R&A)

- Through a combination of vendor-provided and legacy Census systems, the C-SHaRPS ecosystem will provide the following for Schedule A Field Staff for decennial operations:
  - Online Job Application and Assessment through the Recruiting and Assessment Solution
  - Automated Core Human Resources and Payroll functionality
  - Online Training provided by CSRA utilizing Cornerstone's Learning Management System
- **Awarded: November 10, 2016**
- **Awardee: CSRA**

### Census Schedule A Human Resources and Recruiting, Payroll System (C-SHaRPS) - Fingerprinting

- Collect fingerprints of selected applicants for Schedule A selectees during Decennial Census testing beginning in FY2018 and ultimately for the 2020 Census
- Additional options may include the collection of fingerprints from CQA contractor candidates and facial photography operations (both for Schedule A and CQA) during these periods
- **Awarded: November 21, 2017**
- **Awardee: IndraSoft, Inc**

### Decennial Device as a Service (dDaaS)

- Provide a single integrated solution for mobile devices and related services to support the 2018 End-to-End Census Test, NRFU Operation, and 2020 Decennial Census
- Configure, provision, ship, manage, and decommission all mobile devices and provide reliable network coverage
- **Awarded: June 29, 2017**
- **Awardee: CDW-G**

# Reengineering Field Operations & Other Innovation Areas

## Key Contract Updates

### Field Information Technology Deployment (FITd)

- Provide and support IT equipment in the Regional Census Centers (RCCs) (Support Only), Area Census Offices (ACOs), Island Area Offices (IAOs), Paper Data Capture Centers (PDCCs), and Remote Workers
- Stage, provision, ship, install, track, maintain and decommission Field IT equipment
- Provide on-site help desk services and system administration support for Paper Data Capture Centers
- **Awarded: TBD**
- **Awardee: TBD**

### 2020 Enterprise Census and Survey Enabling (CEDCaP ECaSE) Platform

- Design, develop, test, systems engineering, maintenance and operational support of an enterprise data collection and processing platform
- This solution includes the following 2020 Census capability areas: Internet Self Response (ISR), Operational Control System (Field OCS and Survey OCS) and Enumeration application
- **Awarded: June 19, 2017**
- **Awardee: immixGroup, Inc.**

### Technical Integration (TI)

- Support the 2020 Census Program to deliver a fully integrated Census System-of-Systems
- Ensure that the 2020 Census System-of-Systems integrates, scales, performs, is secure and meets 2020 Census business objectives
- **Awarded: August 26, 2016**
- **Awardee: T-Rex Solutions, LLC**

# 2020 Census Major Contracts Overview

Contract Status **Awarded** Pre-Award

**Technical Integrator**  
**Vendor: T-REX Solutions, LLC**  
**(17 subcontractors)**

Ensures 2020 Census System of Systems (SoS) integrates, performs, scales, is secure, and meets business objectives.  
 Provides 2020 Census Cloud and On Premise Infrastructure.  
 Provides systems integration and testing.

**CEDCaP - ECaSE**  
**Vendor: ImmixGroup/Pega**  
**(subcontractor)**

ECaSE development services support new data collection systems. These systems support the operational control systems for Address Canvassing and Nonresponse Followup, and the data collections systems for Nonresponse Followup and Self-Response, which includes internet and telephone.

**Decennial Device as a Service (dDaaS)**  
**Vendor: CDW-G (8 subcontractors)**

Provides Mobile Devices for Field Data Collection Operations.  
 Software Integration, Cellular, Logistics, Shipping, Asset Management, Break/Fix and Disposition.

**Field IT Deployment (FITd)**  
**Vendor: TBD**

Provides the IT infrastructure for 2020 Census field sites.  
 IT & Telecommunications Hardware, Image Integration, Logistics, Shipping, Installation, Break/Fix and Disposition.  
 Regional Census Centers  
 Area Census Offices  
 Island Area Censuses Offices  
 Paper Data Capture Centers

**Census Questionnaire Assistance (CQA)**  
**Vendor: GDIT (10 subcontractors)**

Provides call center capability for self-response, assist respondents with responding to and completing census questionnaire, and provides Interactive Voice Response.

**C-SHaRPS – Recruiting & Selection**  
**Vendor: CSRA (5 subcontractors)**

Provides recruiting and selection and Learning Management System COTS for up to 400K concurrent Schedule A Field Staff.

**Integrated Communications**  
**Vendor: Y&R (19 Subcontractors)**

Supports the advertising and partnership program.

**C-SHaRPS Fingerprinting**  
**Vendor: IndraSoft, Inc**

Provides fingerprinting services for field staff.

**2020 Census Print and Mail**  
**Vendor: Cenveo**

Provides the majority of printing and mailing services for the 2020 Census.

Note: Decennial Service Center (DSC) is removed from DCEO contracts and functions will be fulfilled by other areas

\*This slide represents the status of major contracts for the 2020 Census and is not an exhaustive list of contracts or contract opportunities

Questions?

# 2020 Census Systems Readiness

**Atri Kalluri**

Decennial Information Technology Division

# 2020 Census Systems Readiness

## Agenda

2018 End-to-End Census Test Solution Architecture

2018 End-to-End Census Test Releases

2020 Census Releases

2018 End-to-End Census Test/2020 Census – Recent Milestones

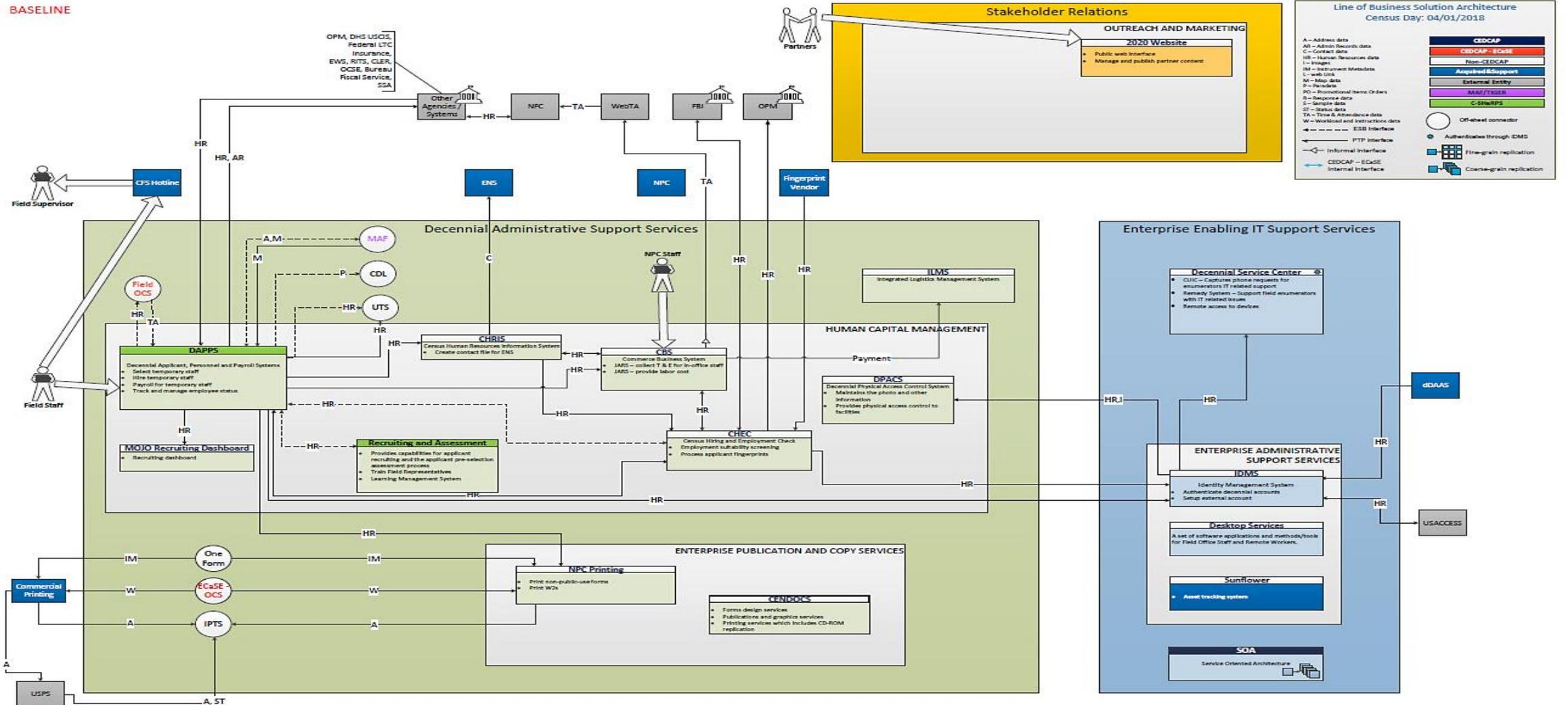
2018 End-to-End Census Test Systems Readiness

2018 End-to-End Census Test Upcoming Releases



# 2020 Census Systems Readiness

## 2018 End-to-End Census Test Solution Architecture (continued)



# 2020 Census Systems Readiness

## 2018 End-to-End Census Test Releases

2018 End-to-End Census Test Releases	Operational Areas Supported	Test Readiness Review (TRR)	Production Readiness Review (PRR)	Conduct Operation	Status
<b>Release I</b>	In-Office Address Canvassing (AdCan)	----	<b>12/13/2016</b>	----	<b>In-Production</b>
<b>Recruiting Release 1</b>	AdCan Recruiting	<b>11/18/2016</b>	<b>12/1/2016</b>	<b>3/31/2017</b>	<b>In-Production</b>
<b>Training Release 1</b>	AdCan Training	<b>3/8/2017</b>	<b>6/22/2017</b>	<b>7/31/2017</b>	<b>In-Production</b>
<b>Release A</b>	In-Field AdCan (TRR 1 = Final functionality for all AdCan systems except ECaSE, LiMA/MCM, and UTS; TRR 2 = Final ECaSE, LiMA/MCM, UTS functionality)	<b>(1) 3/8/2017</b> <b>(2) 5/10/2017</b>	<b>7/26/2017</b>	<b>8/28/2017</b>	<b>In-Production</b>
<b>Recruiting Release 2</b>	Field Enumeration Recruiting	<b>6/15/2017</b>	<b>7/31/2017</b>	<b>9/5/2017</b>	<b>In-Production</b>
<b>Training Release 2</b>	Nonresponse Followup (NRFU) Training	<b>10/11/2017</b>	<b>1/12/2018</b>	<b>3/19/2018</b>	Operational Testing
<b>Release C</b>	(2) Self-Response; includes: Printing/Mailing/Workload & Census Questionnaire Assistance (CQA)/Self-Response	<b>11/17/2017</b>	<b>1/26/2018</b>	<b>2/12/2018</b>	Operational Testing
	(3) Group Quarters Workload (GQ)/Advanced Contact/All GQ Training	<b>3/27/2018</b>	<b>5/21/2018</b>	<b>6/11/2018</b>	Development/Project-level testing
<b>Release D</b>	(1) Field Enumeration; includes Update Leave/NRFU/Coverage Improvement operations	<b>12/6/2017</b>	<b>2/12/2018</b>	<b>3/14/2018</b>	Program-level testing
	(2) GQ eResponse/GQ Enumeration/Service Based Enumeration	<b>4/17/2018</b>	<b>6/11/2018</b>	<b>7/16/2018</b>	Development/Project-level testing
<b>Release E</b>	(1) Tabulation and Dissemination - Residual Coding	<b>2/26/2018</b>	<b>4/4/2018</b>	<b>5/1/2018</b>	Development/Project-level testing
	(2) Tabulation and Dissemination - Post Capture Data Interface, Primary Selection Algorithm, Census Unedited File/Fraud Detection	<b>7/11/2018</b>	<b>9/4/2018</b>	<b>10/1/2018</b>	Development/Project-level testing
	(3) Tabulation and Dissemination - Census Edited File, Micro Data File, Disseminate redistricting data required by Public Law 94-171	<b>10/31/2018</b>	<b>12/3/2018</b>	<b>1/7/2019</b>	Development/Project-level testing

# 2020 Census Systems Readiness

## 2020 Census Releases

2020 Census Releases	Operational Areas Supported	Test Readiness Review (TRR)	Production Readiness Review (PRR)	Conduct Operation
<b>Release 1</b>	Recruiting for all positions; Selection/Hiring/Training of Recruiting Assistants, Partnership Assistants, Office Operations Supervisors, and Clerks	<b>5/21/2018</b>	<b>7/23/2018</b>	<b>9/1/2018</b>
<b>Release 2</b>	Address Canvassing selection of Census Field Supervisors, Enumerator and Listers; Post Enumeration Survey (PES) Sample Release: Initial Sample for PES; AdCan Training; In-Field Address Canvassing; Peak Operation Recruiting	<b>11/5/2018</b>	<b>3/1/2019</b>	<b>5/1/2019</b>
<b>Release 3</b>	Advertising and Earned Media; Housing Unit Count Review; Peak Operation Training (includes UL/GQ/Update Enumerate (UE)/NRFU); PES - Independent Listing Training; PES - Independent Listing; GQ Workload and Advanced Contact/CQA Training/Printing and Mailing Workload; Remote Alaska; Island Areas Censuses; Enumeration at Transitory Locations; Self-Response (includes Mailing/Self-Response/CQA/Coverage Improvement); Peak Operations (includes UL/UE/GQ/SBE/Early NRFU/NRFU); PES - Person Interview; PES - Initial Housing Unit Follow-up; PES - Person Interview Matching (E-Sample ID, Computer Matching, Before Followup Clerical Matching	<b>2/19/2019</b>	<b>6/5/2019</b>	<b>11/1/2019</b>
<b>Release 4</b>	Tabulation/Dissemination; Archiving; Federally Affiliated Count Overseas; Redistricting Data; PES - Person Follow-up; Count Question Resolution; PES - Final Housing Unit Follow-up; PES - Reports and Release Findings	<b>10/3/2019</b>	<b>2/3/2020</b>	<b>7/1/2020</b>

# 2020 Census Systems Readiness

## 2018 End-to-End Census Test/2020 Census – Recent Milestones

Date	Milestone	Operations
11/02/2017	2020 CDR 3	Enumeration at Transitory Locations, Field Infrastructure, Geographic Programs, Group Quarters, Integrated Partnership and Communications, Local Update of Census Addresses, Nonresponse Followup, Paper Data Capture, Response Processing, Update Enumerate, and Update Leave
11/17/2017	2018 Release C-2 TRR	Printing and Mailing/Self-Response/Census Questionnaire Assistance
12/06/2017	2018 Release D-1 TRR	Update Leave/ Nonresponse Followup/Coverage Improvement
1/09/2018	2020 SRR 4	Archiving, Census Question Resolution, Count Review, Coverage Measurement Design and Estimation, Coverage Measurement Matching, Coverage Measurement Field Operations, Data Processing Dissemination, Evaluation and Experiments, and Redistricting Data Program
1/12/2018	Training Release 2 PRR	Nonresponse Followup Training
1/26/2018	Release C-2 PRR	Printing and Mailing/Self-Response/Census Questionnaire Assistance

# 2020 Census Systems Readiness

## 2018 End-to-End Census Test Systems

System	2018 End-to-End Census Test Releases									
	Systems in Production					Future Releases				
	In-Office AdCan (Release I)	Recruiting Release 1	Training Release 1	Release A	Recruiting Release 2	Training Release 2	Release C	Release D	Release E	
<b>Test Readiness Review Dates</b>	----	11/18/2016	3/8/2017	(1) 3/8/2017 (2) 5/10/2017	6/15/2017	10/11/2017	(2) 11/17/2017 (3) 3/27/2018	(1) 12/6/2017 (2) 4/17/2018	(1) 2/26/2018 (2) 7/11/2018 (3) 10/31/2018	
<b>Production Readiness Review Dates</b>	12/13/2016	12/1/2016	6/22/2017	7/26/2017	7/31/2017	1/12/2018	(2) 1/26/2018 (3) 5/21/2018	(1) 2/12/2018 (2) 6/11/2018	(1) 4/4/2018 (2) 9/4/2018 (3) 12/3/2018	
<b>Conduct Operation Dates</b>	----	3/31/2017	7/31/2017	8/28/2017	9/5/2017	3/19/2018	(2) 2/12/2018 (3) 6/11/2018	(1) 3/14/2018 (2) 7/16/2018	(1) 5/1/2018 (2) 10/1/2018 (3) 1/7/2019	
<b>2020 Website</b>							✓ <sub>3</sub>	✓ <sub>2</sub>	✓ <sub>3</sub>	
<b>ATAC</b> (Automated Tracking and Control)							✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>BARCA</b> (Block Assessment, Research, and Classification Application)	✓									
<b>CAES</b> (Concurrent Analysis and Estimation System)								✓ <sub>1</sub>		
<b>CaRDS</b> (Control and Response Data System)							✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>	✓ <sub>2</sub>	
<b>CBS</b> (Commerce Business System)		✓	✓	✓ <sub>1,2</sub>	✓	✓	✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>CDL</b> (Census Data Lake)						✓	✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>	✓ <sub>2</sub>	✓ <sub>3</sub>
<b>CEДСCI</b> (Center for Enterprise Dissemination Services and Consumer Innovation)									✓ <sub>3</sub>	
<b>CENDOCS</b> (Census Document System)		✓	✓	✓ <sub>1,2</sub>	✓					

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# 2020 Census Systems Readiness

## 2018 End-to-End Census Test Systems

System	2018 End-to-End Census Test Releases									
	Systems in Production					Future Releases				
	In-Office AdCan (Release I)	Recruiting Release 1	Training Release 1	Release A	Recruiting Release 2	Training Release 2	Release C	Release D	Release E	
<b>Test Readiness Review Dates</b>	----	11/18/2016	3/8/2017	(1) 3/8/2017 (2) 5/10/2017	6/15/2017	10/11/2017	(2) 11/17/2017 (3) 3/27/2018	(1) 12/6/2017 (2) 4/17/2018	(1) 2/26/2018 (2) 7/11/2018 (3) 10/31/2018	
<b>Production Readiness Review Dates</b>	12/13/2016	12/1/2016	6/22/2017	7/26/2017	7/31/2017	1/12/2018	(2) 1/26/2018 (3) 5/21/2018	(1) 2/12/2018 (2) 6/11/2018	(1) 4/4/2018 (2) 9/4/2018 (3) 12/3/2018	
<b>Conduct Operation Dates</b>	----	3/31/2017	7/31/2017	8/28/2017	9/5/2017	3/19/2018	(2) 2/12/2018 (3) 6/11/2018	(1) 3/14/2018 (2) 7/16/2018	(1) 5/1/2018 (2) 10/1/2018 (3) 1/7/2019	
<b>Centurion</b>								✓ <sub>2</sub>		
<b>CHEC</b> (Census Hiring and Employment Check System)		✓	✓	✓ <sub>1,2</sub>	✓	✓	✓ <sub>3</sub>			
<b>CHRIS</b> (Census Human Resources Information System)		✓	✓	✓ <sub>1,2</sub>	✓	✓	✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>CIRA</b> (Census Image Retrieval Application)							✓ <sub>2</sub>			
<b>CQA</b> (Census Questionnaire Assistance)							✓ <sub>2</sub>	✓ <sub>1</sub>		
<b>DAPPS</b> (Decennial Applicant, Personnel and Payroll Systems)		✓	✓	✓ <sub>1,2</sub>	✓	✓	✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>Desktop Services</b>		✓	✓	✓ <sub>1,2</sub>	✓		✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>DRPS</b> (Decennial Response Processing System)							✓ <sub>2</sub>	✓ <sub>1</sub>	✓ <sub>1</sub> ✓ <sub>2</sub> ✓ <sub>3</sub>	
<b>DPACS</b> (Decennial Physical Access Control System (PACS))						✓	✓ <sub>3</sub>			

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# 2020 Census Systems Readiness

## 2018 End-to-End Census Test Systems

System	2018 End-to-End Census Test Releases									
	Systems in Production					Future Releases				
	In-Office AdCan (Release I)	Recruiting Release 1	Training Release 1	Release A	Recruiting Release 2	Training Release 2	Release C	Release D	Release E	
<b>Test Readiness Review Dates</b>	----	11/18/2016	3/8/2017	(1) 3/8/2017 (2) 5/10/2017	6/15/2017	10/11/2017	(2) 11/17/2017 (3) 3/27/2018	(1) 12/6/2017 (2) 4/17/2018	(1) 2/26/2018 (2) 7/11/2018 (3) 10/31/2018	
<b>Production Readiness Review Dates</b>	12/13/2016	12/1/2016	6/22/2017	7/26/2017	7/31/2017	1/12/2018	(2) 1/26/2018 (3) 5/21/2018	(1) 2/12/2018 (2) 6/11/2018	(1) 4/4/2018 (2) 9/4/2018 (3) 12/3/2018	
<b>Conduct Operation Dates</b>	----	3/31/2017	7/31/2017	8/28/2017	9/5/2017	3/19/2018	(2) 2/12/2018 (3) 6/11/2018	(1) 3/14/2018 (2) 7/16/2018	(1) 5/1/2018 (2) 10/1/2018 (3) 1/7/2019	
<b>DSC</b> (Decennial Service Center)		✓	✓	✓ <sub>1,2</sub>	✓	✓	✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>ECaSE ENUM</b> (Enterprise Censuses and Surveys Enabling Platform – Enumeration)						✓	✓ <sub>3</sub>	✓ <sub>1</sub>		
<b>ECaSE FLD OCS</b> (Enterprise Censuses and Surveys Enabling Platform – Field Operation Control System)			✓	✓ <sub>2</sub>	✓	✓	✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>ECaSE ISR</b> (Enterprise Censuses and Surveys Enabling Platform – Internet Self-Response)							✓ <sub>2</sub>	✓ <sub>1</sub>		
<b>ECaSE OCS</b> (Enterprise Censuses and Surveys Enabling Platform – Operational Control System)				✓ <sub>2</sub>		✓	✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>FDS</b> (Fraud Detection System)									✓ <sub>2</sub>	
<b>Geospatial Services</b>				✓ <sub>1,2</sub>		✓	✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>iCADE</b> (Integrated Computer Assisted Data Entry)							✓ <sub>2</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		

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# 2020 Census Systems Readiness

## 2018 End-to-End Census Test Systems

System	2018 End-to-End Census Test Releases									
	Systems in Production					Future Releases				
	In-Office AdCan (Release I)	Recruiting Release 1	Training Release 1	Release A	Recruiting Release 2	Training Release 2	Release C	Release D	Release E	
<b>Test Readiness Review Dates</b>	----	11/18/2016	3/8/2017	(1) 3/8/2017 (2) 5/10/2017	6/15/2017	10/11/2017	(2) 11/17/2017 (3) 3/27/2018	(1) 12/6/2017 (2) 4/17/2018	(1) 2/26/2018 (2) 7/11/2018 (3) 10/31/2018	
<b>Production Readiness Review Dates</b>	12/13/2016	12/1/2016	6/22/2017	7/26/2017	7/31/2017	1/12/2018	(2) 1/26/2018 (3) 5/21/2018	(1) 2/12/2018 (2) 6/11/2018	(1) 4/4/2018 (2) 9/4/2018 (3) 12/3/2018	
<b>Conduct Operation Dates</b>	----	3/31/2017	7/31/2017	8/28/2017	9/5/2017	3/19/2018	(2) 2/12/2018 (3) 6/11/2018	(1) 3/14/2018 (2) 7/16/2018	(1) 5/1/2018 (2) 10/1/2018 (3) 1/7/2019	
<b>IDMS</b> (Identity Management System)			✓	✓ <sub>1,2</sub>	✓	✓	✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>	✓ <sub>3</sub>	
<b>ILMS</b> (Integrated Logistics Management System)				✓ <sub>1,2</sub>	✓	✓		✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>IPTS</b> (Intelligent Postal Tracking System)							✓ <sub>2</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>LiMA</b> (Listing and Mapping Application)				✓ <sub>2</sub>				✓ <sub>1</sub>		
<b>MaCS</b> (Matching and Coding Software)							✓ <sub>2</sub>			
<b>MAF/TIGER</b> (Master Address File/Topologically Integrated Geographic Encoding and Referencing Database)	✓	✓		✓ <sub>1,2</sub>	✓	✓	✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>	✓ <sub>2</sub>	
<b>MCM</b> (Mobile Case Management)				✓ <sub>2</sub>				✓ <sub>1</sub>		
<b>MOJO Optimizer/Modeler</b> (MOJO – Optimizer/Modeling)				✓ <sub>1,2</sub>				✓ <sub>1</sub>		

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# 2020 Census Systems Readiness

## 2018 End-to-End Census Test Systems

System	2018 End-to-End Census Test Releases									
	Systems in Production					Future Releases				
	In-Office AdCan (Release I)	Recruiting Release 1	Training Release 1	Release A	Recruiting Release 2	Training Release 2	Release C	Release D	Release E	
<b>Test Readiness Review Dates</b>	----	11/18/2016	3/8/2017	(1) 3/8/2017 (2) 5/10/2017	6/15/2017	10/11/2017	(2) 11/17/2017 (3) 3/27/2018	(1) 12/6/2017 (2) 4/17/2018	(1) 2/26/2018 (2) 7/11/2018 (3) 10/31/2018	
<b>Production Readiness Review Dates</b>	12/13/2016	12/1/2016	6/22/2017	7/26/2017	7/31/2017	1/12/2018	(2) 1/26/2018 (3) 5/21/2018	(1) 2/12/2018 (2) 6/11/2018	(1) 4/4/2018 (2) 9/4/2018 (3) 12/3/2018	
<b>Conduct Operation Dates</b>	----	3/31/2017	7/31/2017	8/28/2017	9/5/2017	3/19/2018	(2) 2/12/2018 (3) 6/11/2018	(1) 3/14/2018 (2) 7/16/2018	(1) 5/1/2018 (2) 10/1/2018 (3) 1/7/2019	
<b>MOJO Recruiting Dashboard</b>		✓			✓	✓	✓ <sub>3</sub>			
<b>NPC Printing</b> (Printing at the National Processing Center)				✓ <sub>1,2</sub>	✓		✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>OneForm Designer Plus</b>	Standalone system; no program-level integration testing required									
<b>PEARSIS</b> (Production Environment for Administrative Records, Staging, Integration, and Storage)							✓ <sub>2</sub>	✓ <sub>1</sub>	✓ <sub>2</sub> ✓ <sub>3</sub>	
<b>R&amp;A</b> (Recruiting and Assessment)		✓	✓	✓ <sub>1,2</sub>	✓	✓	✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>RTNP</b> (Real Time Non-ID Processing)							✓ <sub>2</sub>			

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# 2020 Census Systems Readiness

## 2018 End-to-End Census Test Systems

System	2018 End-to-End Census Test Releases									
	Systems in Production					Future Releases				
	In-Office AdCan (Release I)	Recruiting Release 1	Training Release 1	Release A	Recruiting Release 2	Training Release 2	Release C	Release D	Release E	
<b>Test Readiness Review Dates</b>	----	11/18/2016	3/8/2017	(1) 3/8/2017 (2) 5/10/2017	6/15/2017	10/11/2017	(2) 11/17/2017 (3) 3/27/2018	(1) 12/6/2017 (2) 4/17/2018	(1) 2/26/2018 (2) 7/11/2018 (3) 10/31/2018	
<b>Production Readiness Review Dates</b>	12/13/2016	12/1/2016	6/22/2017	7/26/2017	7/31/2017	1/12/2018	(2) 1/26/2018 (3) 5/21/2018	(1) 2/12/2018 (2) 6/11/2018	(1) 4/4/2018 (2) 9/4/2018 (3) 12/3/2018	
<b>Conduct Operation Dates</b>	----	3/31/2017	7/31/2017	8/28/2017	9/5/2017	3/19/2018	(2) 2/12/2018 (3) 6/11/2018	(1) 3/14/2018 (2) 7/16/2018	(1) 5/1/2018 (2) 10/1/2018 (3) 1/7/2019	
<b>SMaRCS</b> (Sampling, Matching, Reviewing, and Coding System)				✓ <sub>1,2</sub>				✓ <sub>1</sub>	✓ <sub>2</sub>	
<b>SOA</b> (Service Oriented Architecture)			✓	✓ <sub>1,2</sub>	✓	✓	✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>Tabulation</b> (Decennial Tabulation System)									✓ <sub>3</sub>	
<b>UTS</b> (Unified Tracking System)	✓	✓	✓	✓ <sub>2</sub>	✓		✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>	✓ <sub>2</sub>	

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# 2020 Census Systems Readiness

## 2018 End-to-End Census Test Systems

System	2018 End-to-End Census Test Releases									
	Systems in Production					Future Releases				
	In-Office AdCan (Release I)	Recruiting Release 1	Training Release 1	Release A	Recruiting Release 2	Training Release 2	Release C	Release D	Release E	
<b>Test Readiness Review Dates</b>	----	11/18/2016	3/8/2017	(1) 3/8/2017 (2) 5/10/2017	6/15/2017	10/11/2017	(2) 11/17/2017 (3) 3/27/2018	(1) 12/6/2017 (2) 4/17/2018	(1) 2/26/2018 (2) 7/11/2018 (3) 10/31/2018	
<b>Production Readiness Review Dates</b>	12/13/2016	12/1/2016	6/22/2017	7/26/2017	7/31/2017	1/12/2018	(2) 1/26/2018 (3) 5/21/2018	(1) 2/12/2018 (2) 6/11/2018	(1) 4/4/2018 (2) 9/4/2018 (3) 12/3/2018	
<b>Conduct Operation Dates</b>	----	3/31/2017	7/31/2017	8/28/2017	9/5/2017	3/19/2018	(2) 2/12/2018 (3) 6/11/2018	(1) 3/14/2018 (2) 7/16/2018	(1) 5/1/2018 (2) 10/1/2018 (3) 1/7/2019	
<b>Acquired and Support Systems</b>										
<b>CES</b> (Center of Economic Studies)							✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>	✓ <sub>1</sub> ✓ <sub>2</sub> ✓ <sub>3</sub>	
<b>CFS Hotline</b> (Census Field Supervisor Hotline)			✓	✓ <sub>1,2</sub>				✓ <sub>2</sub>		
<b>Commercial Printing</b>							✓ <sub>2</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>dDaaS</b> (Decennial Device as a Service)						✓	✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>DSSD</b> (Decennial Statistical Studies Division)							✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>	✓ <sub>2</sub>	
<b>ENS</b> (Emergency Notification System)		✓		✓ <sub>1,2</sub>	✓	✓	✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>		
<b>Fingerprint Vendor</b>						✓	✓ <sub>2</sub> ✓ <sub>3</sub>			
<b>NPC</b> (National Processing Center)							✓ <sub>2</sub> ✓ <sub>3</sub>	✓ <sub>1</sub> ✓ <sub>2</sub>	✓ <sub>1</sub> ✓ <sub>2</sub> ✓ <sub>3</sub>	
<b>POP</b> (Population Division)									✓ <sub>3</sub>	
<b>Sunflower</b>		✓	✓	✓ <sub>1,2</sub>	✓			✓ <sub>1</sub> ✓ <sub>2</sub>		

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# 2020 Census Systems Readiness

## 2018 End-to-End Census Test Systems – Upcoming Releases

### Release C-3 (22)

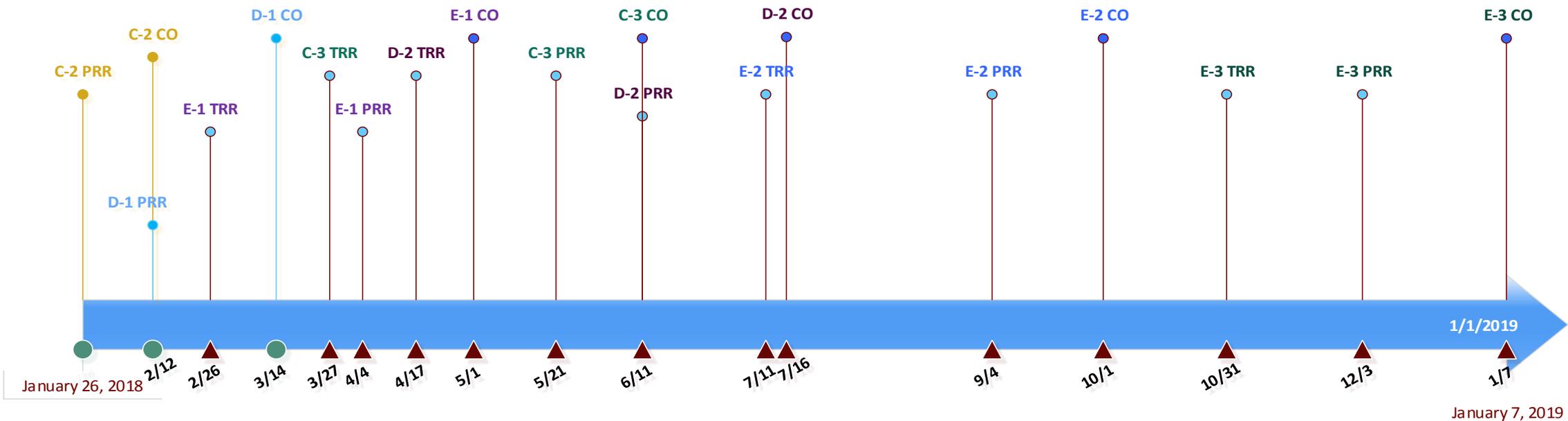
2020 Website, ATAC, CaRDS, CBS, CDL, CHEC, CHRIS, DAPPS, Desktop Services, DPACS, DSC, ECaSE ENUM, ECaSE FLD OCS, ECaSE OCS, Geospatial Services, IDMS, MAF/TIGER, MOJO Recruiting Dashboard, NPC Printing, R&A, SOA, UTS

### Release D-2 (22)

2020 Website, ATAC, CaRDS, CBS, CDL, Centurion\*, CHRIS, DAPPS, Desktop Services, DSC, ECaSE FLD OCS, ECaSE OCS, Geospatial Services, iCADE, IDMS, ILMS, IPTS, MAF/TIGER, NPC Printing, R&A, SOA, UTS

### Release E 1-3 (12)

E-1: DRPS  
E-2: CaRDS, CDL, DRPS, FDS\*, MAF/TIGER, PEARSIS, SMarCS, UTS  
E-3: 2020 Website, CDL, CEDSCI\*, DRPS, IDMS, PEARSIS, Tabulation\*



Questions?

Wrap-Up

Michael Thieme