2017 Census Test

Goals, Objectives, Success Criteria (GOSC) and Research Questions

November 21, 2016

Version 3.1

Scope Refinement

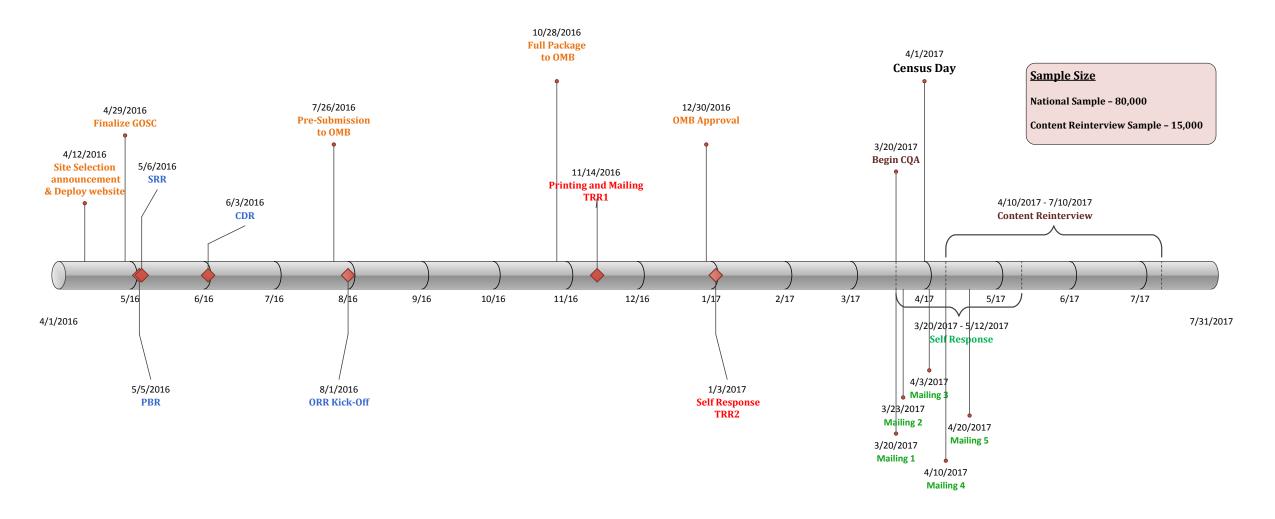
Pursuant to Decision Memo 2016.21

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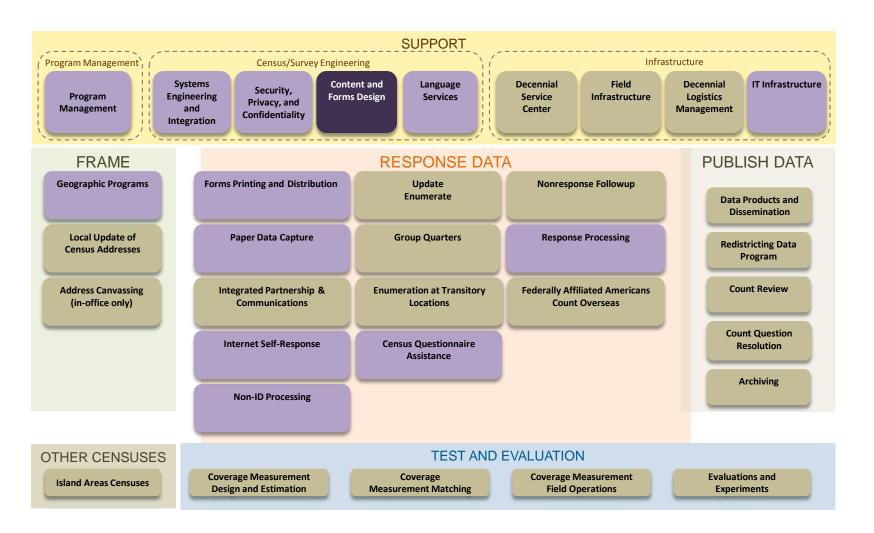
List of the Operations Participating in the Test and Program Managers Operation/Support Program Manager Evan Moffett Geographic Programs Non-ID Processing Program Management Deidre Hicks Sheila Proudfoot Census Questionnaire Assistance Paper Data Capture Alexa Jones-Puthoff Forms Printing and Distribution Alexa Jones-Puthoff IT Infrastructure Pete Boudriault Systems Engineering and Integration Raphael Corrado Security, Privacy and Confidentiality Language Services Jennifer Kim Internet Self-Response Alexa Jones-Puthoff **Content and Forms Design** Jennifer Kim **Response Processing** Raphael Corrado 2017 Census Test Deborah Stempowski

2017 Census Test Timeline - (10/25/2016)



2017 Census Test

Focus of the Test Required to Support the Test NOT Included in the Test



	Key Information		
Sample Selection Description	 A nationwide sample of 80,000 households for a self-response only operation, oversampled for areas with relatively higher concentrations of people estimated to identify as AIAN (Source: Mike Bentley) A subsample of 15,000 households for a reinterview operation. 		
Test Focus	Focus of the test is: • Test the feasibility of collecting tribal enrollment information		
Scope and Limitations	The 2017 Census Test cannot be generalized to the entire nation. The results do not predict national trends or rate estimates expected in the 2020 Census.		
Operations	<u>Test Focus Operations - Goals, Objectives, Success Criteria and Research Questions:</u> <u>Support Operations - with Goals, Objectives, Success Criteria and Research Questions:</u>	Support Operations Only – Summary on how the operation will support the test:	
	Content and Forms Design Non-ID Processing	 Program Management Systems Engineering and Integration Security, Privacy and Confidentiality Language Services IT Infrastructure Geographic Programs Forms Printing & Distribution Paper Data Capture Internet Self-response Response Processing Census Questionnaire Assistance 	
Overall Test Assumptions	 Mailing package will include a paper questionnaire Internet Choice Panel receives the paper questionnaire in Contact 1 (and again in Contact 4 if they have not yet Internet First Panel receives the paper questionnaire in Contact 4 if they have not yet responded The National sample test is conducted through the Self Response contact strategy only [no nonresponse followup] 		

Test Focus Operations with Test Objectives and Research Questions			
Goals	Objectives	Success Criteria (should be quantifiable)	Research Questions Identify which are implementation vs research questions?
Content and Forms Design (Jenny Kim)			
Test feasibility of collecting Tribal Enrollment information (offer option of collecting tribal enrollment via Internet Self Response (SR), Telephone SR (CQA), and Paper SR	 Test Tribal Enrollment question. Have a reinterview component to assess the validity of the tribal enrollment question fielded (conducted by the NPC Call Center). 	The tribal enrollment reinterview shows that the tribal enrollment question captures tribal enrollment in at least one federally- or state-recognized tribe(s).	 What are the item and unit nonresponse rates from the initial survey? What is the consistency rate for tribal enrollment status when comparing the initial survey response to the reinterview?

Support Operations with Goals, Objectives, Success Criteria and Research Questions			
Goals	Objectives	Success Criteria (should be quantifiable)	Research Questions
Non-ID Processing (Evan Moffett and Fran	ık McPhillips)		
Conduct Real Time Non-ID Processing (RTNP)	 Implement real-time address processing (standardization, MAF matching, geocoding) for Stateside addresses. 	 Maximum number of Non-ID responses match to a valid address record in the Census universe during real time processing. 	 What were the results from real-time matching and geocoding Stateside addresses during self-response?
Conduct post-RTNP automated matching and geocoding (also known as Asynchronous Non-ID Processing)	Utilize administrative records data to enhance respondent-provided address data, and then make a further attempt to match to an MTdb record and/or derive a census block geocode. This will occur on a transactional basis for each case not matched during RTNP (i.e., individually, not in batches).	Additional Non-ID responses are matched to MTdb records and/or assigned to census blocks	What were the results from Asynchronous Non-ID Processing (e.g., how many additional matches and geocodes were derived)?
Conduct manual Non-ID processing concurrent with self-response processing	Complete all outstanding manual processing before the first cut for UE workload, and keep up with daily internet and CQA response turnaround by the nominal date when UE or NRFU operations would have started (this will simulate a 2020 environment where Non-ID is	Manual processing catches up with the backlog of cases not resolved during automated processing by the time the initial UE or NRFU cut would have been taken. This will give us a measure of how much Non- ID can reduce the UE or NRFU workload before the operations	 What additional matches were derived during manual Non-ID processing that could have reduced the UE and NRFU workload (e.g., how many, geographic distribution, address characteristics, etc.) What additional/updated geocodes were derived during manual processing?

Support Operations with Goals, Objectives, Success Criteria and Research Questions **Objectives** Success Criteria (should be **Research Questions** Goals quantifiable) reducing UE and NRFU workload as even start. quickly as possible, given that selfresponse will remain open during UE and NRFU). Conduct office-based address The number of addresses verified for How many of the Non-ID cases eligible for Attempt to verify the existence and verification (OBAV) for eligible Non-ID census block location of all eligible eligible Non-ID cases in the officeaddress verification could be verified in an addresses from Non-ID processing based operation is maximized. office-based operation? cases using geographic reference sources in an office-base environment in order to reduce field address verification workload. Reference sources may include available online mapping and imagery services.

	Issues/Constraints
Governance Strategic Communication (internal/external) Change Management Knowledge Management Acquisition and Sourcing Management Budget Management Schedule Management Human Capital Management Performance Measurement	
(Pete Boudriault and Daniel Lewis)	
e Census Enterprise Data llection and Processing (CEDCaP) mmercial Off-the-Shelf (COTS) tform and the real-time non-ID ocessing systems will be hosted in ommercial cloud.	
i e ll t	Human Capital Management Risk and Issues Management Performance Measurement (Pete Boudriault and Daniel Lewis) Census Enterprise Data ection and Processing (CEDCaP) mercial Off-the-Shelf (COTS) form and the real-time non-ID cessing systems will be hosted in

Support Operations Only – Summary of How the Operation will Support the Test Objectives Issues/Constraints Goals cost versus performance as a result of the testing to inform decisions regarding future cloud implementation, our ability to scale nationally for 2020, etc. Gain experience moving to new IT infrastructure - services Ensure the integration of new Utilize an enterprise data model. Final list of systems supporting the field test will be determined once capability systems into the Field Test that will requirements have been finalized and allocated to systems. Integrate the following new systems support the 2020 Census. into the Test: **CEDCaP COTS Platform Enterprise** Census And Survey Enabling Platform (ECaSE) CQA PEARSIS (Production Environment for Administrative Records Staging, Integration and Storage) Each new system meets all functional and non-functional requirements in support of the Test.

Support Operations Only – Summary of How the Operation will Support the Test Goals Objectives Issues/Constraints		
Security, Privacy, and Confident	iality (Pam Mosley, Pete Boudriault)	
All planned security systems listed in the scope for Security, Privacy and Confidentiality are in place and operating.	 The following systems are in place and operating: Enterprise IT infrastructure and Telecommunications Systems Enterprise Security Operations Center (SCC) Enterprise Intrusion Detection Systems (IDS) Enterprise Security Vulnerability management systems Enterprise Audit Log Repository Enterprise Operating System (OS) Security Baseline Management Application Security Baseline Management System. 	
Language Services (Jenny Kim)		
Support language needs of non- English respondents.	Provide functionality enabling non- English speakers to respond • Internet self-response	

Support Operations Only – Summary of How the Operation will Support the Test		
Goals	Objectives	Issues/Constraints
	instrument (Spanish) Paper (Spanish) CQA aids for the CQA agents in Chinese, Vietnamese, Korean, Russian, Arabic; Spanish instrument Provide mailing materials in Spanish that include: Letters, postcards	
IT Infrastructure (Raphael Corrado and	Pete Boudriault)	
Provide the information technology- related infrastructure support to the 2017 Census Test, including:		
Enterprise systems and applications.		
Decennial specific systems, applications, and interfaces.		
Geographic Programs (Evan Moffett a	and Ross Davis)	
MAF/TIGER will provide MAF Extracts and Geographic Reference Files to support the operation.		

Support O	perations Only – Summary of	How the Operation will Support the Test
Goals	Objectives	Issues/Constraints
Forms Printing and Distribution (Alexa Jones-Puthoff and Mark Wolfram)	
Print and distribute Internet invitation letters, reminder postcards, and questionnaire mailing packages to support the 2017 Census Test mailing strategy and enumeration of the population.		
Paper Data Capture (Alexa Jones-Puth	off and Heidi Brady)	
Capture and convert data from the 2017 Census Test paper questionnaires, including document preparation, scanning, Optical Character Recognition, Optical Mark Recognition, Key from Image, and checkout.		
Internet Self-Response (Alexa Jones-	Puthoff and Jason Reese)	
Test full mail contact strategies (5 mailings) in the mailout areas of the national sample.	Refine final mail contact strategy prior to the 2018 End to End Test.	

Goals	Objectives	Issues/Constraints
Response Processing (Raphael Corrad	o and Acting Branch Chief for Response Process	ing)
 Establish the testing enumeration universe Manage the self-response enumeration strategy Distribute workload files required for self-response enumeration operation Track self-response enumeration status by case and support determining the course of self-response enumeration based on established business rules. Perform required response data collection process editing and race/Hispanic origin coding Perform required post-data collection processing actions in order to prepare the data for final decennial response file 	 Evaluate the ability to support the Data Collection Phase from a response processing perspective including Internet, Paper, and CQA modes. Evaluate the ability to check for sufficient data and identify data-defined persons. Evaluate support for the Non-ID processing operation to successfully transmit and receive geocoding data from GEO. Evaluate the ability to conduct required response data processing steps, such as standardizing demographic data responses, race coding, residence coding, determining population counts, etc. in preparation for future unduplication work. Evaluate the ability to produce 	

Support Operations Only – Summary of How the Operation will Support the Test Objectives Issues/Constraints Goals final data for analysis that has Perform required steps to create completed an unduplication a Census Unedited File for data effort using the primary selection analysis purposes, including algorithm methodology unduplicating data via the Evaluating the performance of primary selection algorithm and count imputation and creating a performing count imputation. Census Unedited File to be used Serve as the final test data for test analysis and results. repository for input to required analysis • There is likely low motivation for submitting fraudulent responses during a Test methods for detecting Examine responses from Census Test (as opposed to the 2020 Census), so we will likely have to rely on internet, CQA, and paper in an fraudulent responses simulated fraudulent responses to help test and refine our processes. attempt to identify potential fraud, using multiple methods.

Support Operations Only – Summary of How the Operation will Support the Test		
Goals	Objectives	Issues/Constraints
Census Questionnaire Assistance	(Sheila Proudfootand Kevin Zajac)	
 Provide contact center infrastructure and staff to handle inbound assistance calls from respondents (no web chat or email capabilities in 2017) Assist respondents in completing the Census questionnaire, including capturing responses Answer questions about Census processes and operations Automate certain tasks using Interactive Voice Response (IVR) self service solutions Assess the interface(s) between the CQA contractor and Census Bureau's systems 		

Document History

Date	Changes
May 4, 2016	Baseline prior to Project Baseline Review (PBR)
September 21, 2016	Draft for review incorporating updates since May.
September 30, 2016	Baseline 2 incorporating updates since May.
October 19, 2016	Refinement of scope per 2020 Census Decision Memo 2016.21
November 21, 2016	Added detail for response processing.
	May 4, 2016 September 21, 2016 September 30, 2016 October 19, 2016