Test	Date	Objective ID	Qs from FY13/Fy14 Bus Plans	Objectives/Goals from Test Plans	Results of Objective from Results Reports	Operational Decisions Made (from Operational Plan)
Address Validation Testing		ADC1	D.f, D.g,	Objective was to evaluate our methods for a reengineered address canvassing	Statistical models we applied were not effective at (a) identifying specific blocks with many Adds or Deletes, or (b) predicting national totals of MAF coverage errors Showed that Partial Block Canvassing methodology offers the potential to implement a more efficient approach to canvassing	The Address Canvassing Operation consists of: On-Office Address Canvassing O In-Field Address Canvassing O Quality Control O MAF Coverage Study In-Office Address Canvassing creates the universe for In-Field Address Canvassing. In-Office Address Canvassing will review public lands. Statistical modeling will not be used in Address Canvassing
Address Validation Testing		ADC2	D.a,	Objective was to test how well in-office procedures can replace in-field procedures	Demonstrated the utility of imagery review to guide decision-making and operational planning for address canvassing Demonstrated the value of fieldwork to gather information for use in assessing the effectiveness of in-office methods	 The Address Canvassing Operation consists of: o In-Office Address Canvassing o In-Field Address Canvassing o Quality Control o MAF Coverage Study Administrative records and third-party data sources will be used to validate addresses within each block In-Office Address Canvassing creates the universe for In-Field Address Canvassing. In-Office Address Canvassing will review public lands.
Address Validation Testing		ADC3	D.f, D.g, D.h	Objective was to assess our ability to ensure an accurate Master Address File (MAF)	Statistical models were ineffective at measuring MAF coverage error Ongoing research will focus on collecting metrics via the MAF Coverage Study	Production Address Canvassing begins October 1, 2015. The MAF Coverage Study will be conducted throughout the decade.
Address Validation Test: Part 1 - MAF Model Validation Test	Sept 2014 - Dec 2014	ADC4	D.c,	to collect data to inform components of the Targeted Address Canvassing decision-points MAF Error Model Targeted Address Canvassing, Research, Model, and Classification team Models for Zero Living Quarters blocks	Summary of results: The statistical models we applied were not effective at > identifying specific blocks with many Adds or Deletes > predicting national totals of MAF coverage errors Results for Statistical Models: • Determining specific blocks that need additional action: • rate of error capture was too low • rate of erroneous canvass was too high • Using statistical models to predict national totals of coverage errors on the MAF: • model parameters reflected condition of MAF in 2009 • now: only halfway through decade, and MAF has improved under Geographic Support System Initiative	 Address Canvassing updates the Census Bureau address list using a dependent canvass (from ground to list). Address Canvassing validates and collects coordinates for every structure with a living quarter. Imagery will be available on the LiMA to use during In-Field Address Canvassing
Address Validation Test: Part 1 - MAF Model Validation Test	Sept 2014 - Dec 2014	ADC5	D.a,	Concept test Micro-Targeting and uses of Aerial Imagery	 Based on weighted results of imagery review for the 10,100 MMVT blocks: 84% of blocks with at least one address are stable. These blocks encompass an estimated 85% of all housing units. These blocks would be placed in a "passive" category, with ongoing monitoring for change, but not requiring active processing to acquire updates. 15% of housing units are located in "active" blocks, with updates acquired through the USPS' Delivery Sequence File, local government partner files, other administrative or commercial address lists, or fieldwork. 	at most twenty-five percent of the living quarters will be canvassed in the field

Address Validation Test: Part 2 - Partial Block Canvassing	Dec 2014 - Feb 2015	ADC5	D.a,	Test ability to navigate to targeted area/coordinate using locational information produced based on in-office review of imagery.	Test Analysis of Imagery Review Results to Inform In-Office Canvassing: • Based on weighted results of imagery review for the 10,100 MMVT blocks: • 84% of blocks with at least one address are stable. • These blocks encompass an estimated 85% of all housing units. • These blocks would be placed in a "passive" category, with ongoing monitoring for change, but not requiring active processing to acquire updates. • 15% of housing units are located in "active" blocks, with udpates acquired through the USPS' Delivery Sequence File, local government partner files, other administrative or commercial address lists, or fieldwork.	I Imagery will be available on the LiMA to use during In-Field Address Canvassing
Address Validation Test: Part 2 - Partial Block Canvassing	Dec 2014 - Feb 2015	ADC6,7		Collect specified information for use in comparison to information collected for the same block through full block canvassing in the MAF Model Validation Test.		
Address Validation Test: Part 2 - Partial Block Canvassing	Dec 2014 - Feb 2015	ADC7	D.b, D.d, D.e,	Collect metrics to measure efficiency, cost, etc.		
Address Validation Test: Part 2 - Partial Block Canvassing	Dec 2014 - Feb 2015	ADC8		Identify potential issues affecting ability to conduct fieldwork and collect accurate information: • Is imagery required in the field? What other tools/data are needed in the field? • Should updates other than those specified be collected? • How do we limit the scope of work once in the field?		
Small-Scale Testing	January 2014 and ongoing	CFD1		Explore different formats and content to email, text and automated voice invitations	 From the opt-in, non-probability panel: 1. A text based email out performed graphical emails. 2. Short email subject lines that include the "10-minute" burden and the "U.S. Census Bureau" name seem to perform better than other subject lines, especially those including the word "Help" as the first word in the subject line. 3. Longer email content with "Dear Resident" and signature of the director similar to the 2014 Census Test email outperformed a shorter email invitation without the greeting and signature. 4. Response rates did not differ by link type (whether the full URL or "Click here") with this population. 5. The time of day the email is sent did not appear to have a big impact on the response rate. 6. Respondents report preferring reporting online to a decennial census with a mailed invitation with the link over all other options. 	In The 2020 Census will use texting and emailing to motivate self- response

2012 National		CFD2	Evaluate the performance of combined	Response Distributions	
Census Test			race and origin questions on the Internet	Similar across the two question versions	
				 Item nonresponse lower in the two-part version than the one-part version 	
				Detailed Reporting Some differences across the two question versions	
				 Some differences across the two question versions Netiseably less detailed reporting in 2012 National Concus Test Internet than in 	
				2012 National Census Test paper	
				· Noticeably less detailed reporting in 2012 National Census Test Internet than in	
				2010 Alternative Questionnaire Experiment (AQE) (paper)	
				Results did not indicate expected benefit of enhanced reporting of detailed	
				race and origin groups	
				· Additional research needed	
				Predictive Text	
				· Hypothesis: Decrease typos and extraneous characters; Lower rate of residual	
				coding	
				• Results not as expected: NCT resulted in a relatively higher rate of residual	
				coding compared to 2012 National Census Test paper responses	
2014 Census Test	CD: 6/1/14	CFD3	This site test was not focused on	Major Findings	
			evaluating content as a main objective	· Use of combined race/Hispanic origin question, compared to separate	
				questions, showed no difference in distribution for most groups	
				\cdot Soliciting write-in race and origin details on a separate screen from the major	
				group checkboxes, compared to on the same screen, results in more detailed	
				reporting	
				• Detailed reporting for major race and Hispanic origin groups varied by question	
				Version – combined question saw higher percentages for white, Black, and	
				I lise of the new relationship question, which includes categories for same-sex	
				and opposite sex spouse and partners, showed no difference in distributions for	
				each category, though the paper form had slightly higher item nonresponse for	
				the new version	
2015 National		CFD5	Use nationally representative sample to		
Content Test			evaluate and compare different census		
			coverage		
			coverage		
2015 National		CFD6	Conduct a reinterview to measure		
Content Test			accuracy of race/origin and coverage		
2012 National		COA1	Assess the Telephone Questionniare	TOA available throughout data collection	2 CQA will complete interviews by telephone.
Census Test			Assistance (TQA) workload	· Agents answered questions and took interviews	 CQA will provide respondent assistance relating to specific items
					on the questionnaire.
				• 6,226 calls to TQA (roughly 8% of sample)	CQA will handle calls relating to general questions on 2020
				· 65% resulted in interviews	Census processes and frequently asked questions.
2012 National		6043	Assess the Telephone Question in the	- Descare for cells	R COA will bendle celle obevittechnical icaves (o.g. 1957-99-5
2012 National		CQA2	Assess the Telephone Questionniare	Keasons for calls Passons recorded for \$1% of calls	B CQA will nangle calls about technical issues (e.g., Internet
Census rest			Assistance (TQA) reasons for calls	69% of those were because respondent did not have computer and/or Internet	2020 Census questionnaire instead of offering technical assistance
				access	to respondents.
					and the provide state of the st

2012 National	ISR1	A.a, A.b,	Assess relative self-response rates and	Second Reminder:	An Internet self-response option will be provided for the 2020
Census rest			various contact strategies	 Sending 2nd reminder prior to mailing a paper questionnaire resulted in significant gains in both overall self-response and Internet response; increase in telephone interviews Advance Letter: No significant difference in overall self-response compared to No Advance Letter Telephone Number in Initial Mailing: No significant difference in overall response Increase in telephone interviews Operationally inefficient not to include Content Tailored to Nonrespondents: No significant difference in overall response Recommend continued research 	 B Respondents will receive direct contacts inviting their participation in the Census. Contacts may include some of all of the following: postcard mailings, letter mailings, emails, text messages, pre-recorded telephone messages, questionnaire mailings, and in-person visits by an enumerator. B Invitation letters and mailed materials will encourage people to respond using a unique Census identifier; however, the 2020 Census will allow people to respond without a unique Census ID. B The Census Bureau will offer Internet questionnaires in a small number of languages other than English and Spanish, including those requiring non-Roman alphabets. The languages selected will be based on national prevalence rates of low-English proficiency households and the available technology.
2015 National Content Test	ISR1	A.a, A.b,	Refine estimates of national self- response and Internet response rates and continue testing contact strategies for optimizing self-response		
2012 National Census Test	ISR2	A.e,	Assess relative self-response rates and Internet self-response rates utilizing Internet Push methodology		 ☑ An Internet self-response option will be provided for the 2020 Census. ☑ Respondents will receive direct contacts inviting their participation in the Census. Contacts may include some of all of the following: postcard mailings, letter mailings, emails, text messages, pre-recorded telephone messages, questionnaire mailings, and in-person visits by an enumerator. ☑ Invitation letters and mailed materials will encourage people to respond using a unique Census identifier; however, the 2020 Census will allow people to respond without a unique Census ID. ☑ The Census Bureau will offer Internet questionnaires in a small number of languages other than English and Spanish, including those requiring non-Roman alphabets. The languages selected will be based on national prevalence rates of low-English proficiency households and the available technology.

2013 National		ISR3	Δς Δείϊ Δσ	Contact Frame Quality: Evaluate the	Ability to determine the quality of the supplemental contact frame was limited	P Text messaging will not be used as a data collection mode
Census Contact		151(5	л.с, л.е.ш, л.д,	quality of phone and email contact	due to respondents not being willing to share all of their available phone	
Test				information acquired from commercial	numbers and email addresses	
				sources	The Contact Frame team learned a limited amount about phone numbers and	
					characteristics of those who were likley to respond to the phone survey, but less	
					about email addresses. More research is needed for those areas	
					The Contact Frame team is developing the following future research goals as a	
					result of the 2013 National Census Contact Test analysis:	
					• Develop an optimal prioritization algorithm to order the phone numbers most	
					likely to have a correct phone- residential address link.	
					Conduct phone number and email address verifications with other available	
					Census surveys such as:	
					o 2010 Census Coverage Followup Operation	
					o 2010-2012 American Community Survey	
					o 2012 National Census Test.	
					 Conduct analysis of phone-residential address links at lower levels of 	
					geography (state, county, block, and tract-levels) which will require looking at	
					larger datasets.	
					 Investigate other phone number and email address sources (commercial or 	
					government/administrative records sources) to improve the demographic and	
					geographic coverage of phone numbers and email addresses.	
					Conduct analysis of residential address-email address links. Perhaps, develop a	
					prioritization algorithm to order the email addresses most likely to have a correct	
					residential address-email address link. Also, analyze these links at lower level of	
					geography.	
2014 Census Test	CD: 6/1/14	ISR4	A.c, A.d,	• "Notify Me"	Low participation in "Notify Me"	A formal "Notify Me" option will not be offered.
				 Postcard solicitation 	3% of invitees participated	
				· Respondents select their preferred		
				mode for future invitations and		
				reminders – email or text message		
2014 Census Test	CD: 6/1/1/	ISR5	A c A d A e iii	Email invitation	Email not an effective replacement for nostal mail	D Invitation letters and mailed materials will encourage people to
2014 Census rest	CD. 0/1/14	151(5	л.с, л.а, л.е.ш,	• Test use of email as initial invitation to	Over half of the emails were not delivered - "hounced back"	respond using a unique Census identifier: however, the 2020
				respond	Response rates 10% lower than control	Census will allow people to respond without a unique Census ID
				· Evaluate use of pre-notices (letter and		census win anow people to respond without a unique census ib.
				automated voice) to introduce and		
				legitimize email contacts		
2014 Census Test	CD: 6/1/14	ISR6	A.e,	Mail Internet invitation	Internet-push is successful strategy for generating Internet response	An advance letter will not be used; the first letter will be the
			,	 "Internet Push" strategy: letter → 	50.6% of total response was via Internet	Internet push letter inviting response to the Census for those
				postcard \rightarrow postcard \rightarrow questionnaire	76.8% self-response was via Internet	areas with Internet access or a paper questionnaire for targeted
				· Test use of email and automated voice		populations without Internet access (under review).
				reminders	Automated Voice Invitations (AVI) show no impact on response	Housing units from whom an Internet questionnaire is not
					When used as pre-notice or as a reminder	received will be mailed a paper questionnaire.
1	1	1	1			

2015 OSR		ISR7	A.c,	Continue efforts to increase Self- Response through research and testing of communications strategies prior to awarding a communications contract • Test the use of digital targeted advertising methods to engage and motivate respondents • Assess effectiveness of early announcement offer ("Notify Me") when paired with advertising	 Preliminary Self-Response Results (Mail Panel Design): In control panel, weighted 47.9 percent of sample has responded Significantly lower internet and total response rate for Internet Push without an ID and Notify Me postcard panels Preliminary Self Response Results (Other responses in Savannah): Additional postcard mailing resulted in about 8.3 percent response Outside of the mail panels, more than 35,000 non-ID responses received – due to advertising and promotional efforts Preliminary Self Response Results (Notify Me): Low participation 1,925 participants "pre-registered"; of these 1,341 signed up before the cutoff date and were matched, and of those 1,203 were in the Savannah area Majority selected email as their preferred contact mode 93.0 percent of Notify Me participants ultimately responded Additional burden may depress response 	 An advance letter will not be used; the first letter will be the Internet push letter inviting response to the Census for those areas with Internet access or a paper questionnaire for targeted populations without Internet access (under review). The 2020 Census will offer alternative response options to respondents without Internet access. Messaging will be coordinated with the Integrated Partnership and Communications Campaign. A formal "Notify Me" option will not be offered. Respondents will receive direct contacts inviting their participation in the Census. Contacts may include some of all of the following: postcard mailings, letter mailings, emails, text messages, pre-recorded telephone messages, questionnaire mailings, and in-person visits by an enumerator.
2015 OSR		ISR8	A.c, A.d,	Improve the usability and respondent experience with improved Internet response functionality • Provide a mobile-optimized application for Internet self-response • Study the extent to which encouraging responses without a Census ID will contribute to the national Self-Response and Internet response rates ("Non-ID")	 Preliminary Self Response Results (Non-ID Processing): >Address matching and geocoding occurred in real time (during response) and then for addresses that did not match, another attempt was made after Administrative Records data were used to update the addresses by correcting or adding address elements. 	 The 2020 Census will offer a Non-ID option for self-response and telephone agent-assisted response. The Non-ID workflow will include real time matching and geocoding, post real-time processing that will utilize administrative records and third-party data, and manual (interactive) matching and geocoding.
2015 Census Test	CD: 4/1/15	ITIN4	C.e, C.g, C.h, C.j	Test operational implementation of the Bring Your Own Device (BYOD) option for enumeration: • Design, develop, deploy and support secure software solutions that can be installed on an employee's personally owned mobile device. • Conduct interviews with respondents using the enumerator-owned mobile device. • Capture lessons learned for future operations, including focus groups with a subset of the respondents, questionnaires for the enumerators, and collect feedback from the local census office.		

LUCA Focus	March	LUCA1	D.i	Identify changes that help increase	Recommendation 2: Reduce the complexity of the LUCA program	Address Canvassing will validate LUCA submissions
Groups	2014 - June			participation and coverage, while	Recommendation 5: Provide the address list in more standard formats	Validation of LUCA submissions will occur during primarily during
	2014			decreasing program costs for the 2020	Recommendation 6: Include an in-office verification of LUCA submitted	In-Office Address Canvassing, with minimal validation occurring
				Census LUCA Program	addresses (Research Activity 3)	early in the In-Field Address Canvassing operation
					Recommendation 7: Utilize GSS-I tools and data to validate LUCA submission	Conduct a comprehensive communication program with LUCA
					(Research Activity 2)	participants
					Recommendation 8: Encourage governments at the lowest level to work with	Include census structure coordinates in the census address list
					larger governments to consolidate their submission	and allow partners to return their structure coordinates as part of
					Recommendation 12: Continue the 2010 Census LUCA Program improvements	their submission
					that were successful: (Research Activity 1)	Provide ungeocoded addresses to State and County partners in
					> Expanded the review time for participants from 90 days to 120 days	LUCA materials
					> Provided more advance notice of the pending LUCA program	Provide the address list in more standard file formats so that
					> Initiated comprehensive program communications with partners	lists are easier to load into common software packages
					> Provided participants with the opportunity to use the Census Bureau supplied	Encourage governments at the lowest level to work with larger
					MAF/TIGER Partnership Software (MTPS) application	governments to consolidate their submissions
					> invited states to participate in the program	Provide a variety of LOCA media types Simplify the 2020 Concus LUCA program and make it compatible.
						is simplify the 2020 census LOCA program and make it compatible with the Geographic Support System Initiative (GSS I) and Address
						Canvassing
						Itilize administrative records and third-party data to improve
						validation process
						I Use the Geographic Update Partnership Software (GUPS) to
						support automated exchange of information for LUCA participants
LUCA Focus	March	LUCA2	D.i	Identify ways to improve the quality of	Recommendation 1: Eliminate Option 1 (Title 13 Full Address List Review) and	Address Canvassing will validate LUCA submissions
Groups	2014 - June			address updates for the 2020 Census	Option 2 (Title 13 Local Address List Submission) full address list submission	Validation of LUCA submissions will occur during primarily during
	2014			LUCA Program	Recommendation 3: Include census structure coordinates in the census address	In-Office Address Canvassing, with minimal validation occurring
					list and allow participants to return their structure coordinates as part of their	early in the In-Field Address Canvassing operation
					submission (Research Activity 2)	Conduct a comprehensive communication program with LUCA
					Recommendation 4: Provide ungeocede United States Postal Service Delivery	participants
					Sequence File addresses to State and County partners	Include census structure coordinates in the census address list
					Recommendation 7: Utilize GSS-I tools and data to validate LUCA submission	and allow partners to return their structure coordinates as part of
					(Research Activity 2)	their submission
					Recommendation 8: Encourage governments at the lowest level to work with	In Provide ungeocoded addresses to State and County partners in
					Becommondation Or Eliminate the Black Count Challenge (Recearch Activity 2)	DCA materials
					Recommendation 10: Require unit designators for multi-unit structures	a Fronce the address list in more standard me formats so that
					(Percearch Activity 2)	Encourage governments at the lowest level to work with larger
					Recommendation 11: Encourage LUCA participants to identify E-011 Addresses	a checking of governments at the lowest level to work with larger
					used for mailing location or both	B Provide a variety of LLCA media types
1	1	1	1		used for maning, location of both	an rovide a variety of LOCA media types

2013 National		NID1	D.k	Improving Non-ID Processing: Test	Address enhancement influenced a significant number of address records, and thus warrants further research	The 2020 Census will offer a Non-ID option for self-response and
Test				processing of census responses lacking a preassigned census identification number	 The more steps the Non-ID Processing team took to enhance the addresses, the higher the matching and geocoding rates Internal Revenue Service address data has great potential for use in automated processing, 	The Census Bureau's matching process will be included into the 2020 Non-ID workflow.
					particularly for continuing the respondent has given us a good address, but also fro use in supplementation • The 2020 Non-ID Processing team needs to continue to refine the address enhancement process throughout the research and testing phase, utilizing data from field tests while also	
					reprocessing 2010 Census data through the address enhancement process	
					Recommendations: • Continue to explore the possibility of acquiring authorization for using Internal Revenue Service address data for administrative records matching.	
					 Explore utilizing the respondent-provided version of the address over the administrative record version for subsequent processing when an address is confirmed by an administrative record address. 	
					 Explore using DataFlux to update ZIP codes and street names only if possible, since DataFlux introduces some undesirable effects on some addresses (e.g., moving rural route information to the city-style address fields). The administrative record database must be standardized the same way. 	
					 Explore using the GEO Standardizer to standardize individual address fields; that is, do not use the whole address standardizer. However, the whole address standardizer does a good job of parsing city-style addresses that were entered in one field during data collection. Therefore, if we can identify those cases with city-style address information in one field at the onset, we could potentially use the whole standardizer exclusively on them, and the individual address component standardizer on the rest. 	
2014 Census Test	CD: 6/1/14	NID2	Dk	Non-ID Internet response	Identify noncity-style addresses prior to standardization and do not update rural route Iower Internet response for Non-ID Panel	The 2020 Census will offer a Non-ID ontion for self-response and
				 No user ID provided in mail materials Test ability to process and match 	 40.6% for Non-ID panel vs. 46.3% for ID panel Lower overall response for Non-ID 	telephone agent-assisted response. I The Census Bureau's matching process will be included into the
				respondent-provided address	 • 58.9% for Non-ID panel vs. 61.4% for ID panel • Besponse rates are impacted by the ability to match 	2020 Non-ID workflow.
					· About 5% of Non-ID cases weren't matched	
					All unmatched cases treated as nonrespondents Address collection in the Internet instrument appears to be successful	
					· Higher match rates than 2010 and fewer incomplete records	
					Address supplementation from administrative records isn't necessary very often, but increases matching rates by 50% when used	
					orien, but meleuses matering rates by 50% when used	
2015 OSR		NID3		Respondent Validation to authenticate people/addresses who self-responded with or without a Census ID		^[2] The Non-ID workflow will include real time matching and geocoding, post real-time processing that will utilize administrative records and third-party data, and manual (interactive) matching and geocoding.
2015 Census Test	CD: 4/1/15	NRFU-??		Reduce Nonresponse Followup (NRFU)		
				workload and increase NRFU productivity with Administrative		
				Records, Field Reengineering, and		
				Adaptive Design.		
2015 Census Test	CD: 4/1/15	NRFU-??		Evaluation Follow-Up:		
				Obtain the most accurate status of the		
				• To identify people associated with an		
				occupied housing unit during the		
				calendar year		
2013 Census Test	Dec-13			An operational study of NRFU		

procedures

2013 Census Test	Dec-13	NRFU1		Use administrative records to "enumerate" some housing units	 Interviewers were approximately 20% less efficient when workload was reduced with records Cases remaining after workload is reduced are more difficult But interviewers spent approximately 22% fewer hours Overall interviewer cost is reduced 	☑ Administrative records and third-party data will be used to enumerate nonresponding housing units, as appropriate
2013 Census Test	Dec-13	NRFU2		Try an adaptive design approach for cases not enumerated with records	 Interviewers were 22% more efficient in the adaptive design treatments This pattern holds whether workload was reduced with records or not Interviewers in the adaptive groups averaged approximately four more contacts per interviewer/day 	The NRFU operation will utilize automated tools and systems for: o Recruiting, onboarding, and training o Time and attendance and payroll o Case load management o Data collection o Cost and progress monitoring
2013 Census Test	Dec-13	NRFU2		Compare with a fixed enumeration approach		
2013 Census Test	Dec-13	NRFU3		Examine two telephone methods	CATI implementation before CAPI led to 12-14% decrease in productivity Combines CATI and CAPI hours Productivity = (CATI hours+CAPI hours)/Number of cases	In Telephone contact attempts from a central location (i.e., Census Questionnaire Assistance) will not be part of the initial NRFU contact strategy
2014 SIMEX Test	Nov-14	NRFU4	B.j,	Objective #1: Identify optimal staff-to- supervisor ratios/mixes for ENUM/LSO and LSO/FMO.	 The Census SIMEX demonstrated that LSOs and FMOs were able to perform tasks within the new staff-to-management structure at both high and low staff- to-management ratios; however, significant negative impacts to workload, situational awareness, response times, and response accuracy were identified when higher staff-to-supervisor ratios were utilized. Within the context of this SIMEX, and because we only tested two staff-to-supervisor ratios (in conjunction with several other variables), we were not able to determine an optimal or absolute value for the staff-to-supervisor ratio. 	The NRFU operation will utilize a reengineered field management and staffing structure
2014 SIMEX Test	Nov-14	NRFU5	B.j,	Objective #2: Assess the necessity and sufficiency of the automated operational control system (MOJO) as it pertains to the FMO/LSO management of staff, response data, and payroll data in an operational setting.	• The Census SIMEX demonstrated that the MOJO Operational Control System (OCS) is sufficient in assisting both LSOs and FMOs in an operational setting. Further, data from the SIMEX suggests that MOJO is essential in supporting the new field staff structure and procedures described in the revised NRFU CONOPS. LSO and FMO participants found MOJO to be acceptable for NRFU operations, and all participants were able to take advantage of different capabilities and functions provided by MOJO and utilize them to successfully support their roles in an operational setting.	
2014 SIMEX Test	Nov-14	NRFU6	B.j,	Objective #3: Evaluate and evolve the FMO and LSO responsibilities and duties as defined in the revised NRFU CONOPS.	 Overall, data from the Census SIMEX suggested that roles and responsibilities of the FMOs and LSOs were well defined in the revised NRFU CONOPS. Participants mostly understood the duties associated with their role and tasks they were engaged in, although there was, on occasion, some confusion about what steps to take or which procedures to follow for certain complex events. 	☐ The NRFU operation will utilize a reengineered field management and staffing structure

2014 SIMEX Test	Nov-14	NRFU7	В.d, В.e, В.j, В.I	Objective #4: Evaluate the effectiveness of the training materials for the FMO and LSO roles.	• The Census SIMEX revealed that the initial set of training materials provided to SIMEX participants in preparation for their roles as FMOs and LSOs appeared to be generally effective. Performance data (response accuracy) suggested that there may have been some knowledge gaps among LSOs with regard to certain procedures. Further analysis of the source of incorrect completions would be needed to confirm that additional training on these procedures in particular is required. Feedback from participants overall suggested that they would like training to be longer, more in-depth, and inclusive of all roles across NRFU operations. Although the training was generally effective for the purposes of the SIMEX, both objective and subjective data suggests that continued development of the training program, as well as the addition of modules covering specific focal areas such as the Census Operations Mobile Platform for Adaptive Service Solutions (COMPASS) application, detailed MOJO components, and CONOPS procedures for off-nominal events may be needed.	□ The NRFU operation will utilize automated tools and systems for: o Recruiting, onboarding, and training o Time and attendance and payroll o Case load management o Data collection o Cost and progress monitoring
2015 Census Test	CD: 4/1/15	NRFU-8		Test the feasibility of fully utilizing a field operations management system that leverages planned automation and available real-time data, as well as data households have already provided to the government, to transform the efficiency and effectiveness of data collection operations.		
Public Opinion Polling	February 2012 and ongoing	SPC1		Track public opinion toward the Federal Statistical System	 > Data users are more likely to report trusting statistics than non-data users. > Reported belief in the credibility of statistics predicts reported trust in federal statistics. > Reported trust in statistics remained relatively stable over the two year data collection. > The government shut-down caused by a deadlocked Congress coincided with the largest dip in reported trust in statistics (however, this may have been confounded by distrust of the roll out of the Affordable Care Act). 	

Public Opinion Polling	February 2012 and ongoing	SPC2	F.b,	Track opinions toward use of Administrative Records	 Questions regarding administrative record use has shown when framed to indicate that the use of records can save the government money or provide a social good then respondents are more likely to favor using administrative records. Findings also seem to indicate that respondents prefer the use of government records to "public" or other third-party records. From Focus Groups: Participants became more comfortable with the idea of administrative records use when more information about how it will be used and from where the data will be obtained is provided. However, participants were concerned with the accuracy and timeliness of administrative records, leading some to conclude that it might be best if the Census Bureau avoid using them. Overall Assessments (from Privacy/Security): > Framing of communication surrounding the use of administrative records is of utmost importance. Respondents want to know what is being done and why. > People who use Federal data and know something about it are more likely to trust it, trust us, and favor the use of administrative records for statistical purposes. 	Administrative records and third-party data will be used to identify vacant units Administrative records and third-party data will be used to enumerate nonresponding housing units, as appropriate
Public Opinion Polling	February 2012 and ongoing	SPC3	F.b,	Other topics like BYOD, contact methods, and response methods	 > Respondents reported preferring to be contacted by email or text messaging over being called on a cell phone. Respondents reported preferring email to traditional contacts of calling the home phone or in-person interviewing. However, respondents report preferring reporting via paper for the decennial Census compared to receiving an email with the link. > If respondents objected to being emailed or texted, the most common reason was that they don't use that communication. From Focus Groups: > Focus group participants disliked the idea of receiving text messages from the Census Bureau. Some participants were open to receiving an email, but were unsure how they could verify its legitimacy. They were worried scammers might take advantage of an opportunity to impersonate the Census Bureau and that their information could fall into the wrong hands. > Most people whose households responded during nonresponse follow-up (NRFU) strongly disliked the concept of Bring Your Own Device (BYOD), citing security, privacy, and confidentiality concerns. However, these participants were unable to identify how they would know if a device were personal or government-issued. > Answering the census online was not an issue for most participants, but some worried about the security of the systems and mentioned events such as Edward Snowden's leak of National Security Agency (NSA) information and the health insurance website issues following the Affordable Care Act as cautionary tales. > Most participants in the groups had experienced Internet-targeted advertising and indicated they found it annoying. While there was some initial confusion about how this concept related to the Census Bureau, most people were able to reason through how it might be useful. The use of a celebrity or athlete created a 	The 2020 Census will use texting and emailing to motivate self- response
LUCA Focus Groups	March 2014 - June 2014			Research Activity 1 - Researched reports and documents associated with the 2010 Census LUCA and 2010 New Construction (NC) programs		
LUCA Focus Groups	March 2014 - June 2014			Research Activity 2 - Researched the impact of the Geographic Support System Initative (GSS-I) on LUCA		

LUCA Focus Groups	March 2014 - June 2014		Research Activity 3 - Researched the impact of the Reengineering Address Canvassing on LUCA address validation		
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Groups	2014 -		Groups to obtain feedback from		
Groups	Lune 2014		partners on potential 2020 Census LUCA		
	Same Lorr		models		
Address Validation				PBC Key Take-Aways:	
Test: Part 2 -					
Partial Block				When PBC did not find an address that was located by MMVT, reasons for the	
Canvassing				omission tended to be:	
				 The area was provided to the PBC lister, but the instruction was poorly- 	
				worded or the polygon was poorly-defined, leading to lister confusion.	
				• The add represented a situation not detectable by the imagery review step	
				(i.e., changes within existing structures), and therefore was not provided as a	
				work area to the PBC lister.	
				Ihe add represented a situation that was not detected due to imagery quality	
				and/or vintage issues, and therefore was not provided as a work area to the PBC lister.	
				Polygons and instructions prepared for PBC listers generally resulted in	
				successful navigation to and within work areas, and facilitated accurate data	
				collection, but improvements need to be made:	
				• Ensure instructions match the polygon;	
				• Include imagery on the LiMA to aid in understanding the polygon and	
				instruction;	
				• Use basic street address information within an instruction; and;	
				 Missing and misaligned street features and misaligned block boundaries 	
				should be fixed in the office before any block goes to the field.	
				 Based on the results of the PBC Test, we recommend: 	
				 Testing PBC in the 2016 Address Canvassing Test with traditional listers. 	
				• Overlap with full-block canvassing for a sample of blocks to compare results.	
				 Improve clarity of written instructions as well as training to minimize lister 	
				confusion in the field.	
				Conduct additional analysis at the individual address level to fully understand	
			·		