

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

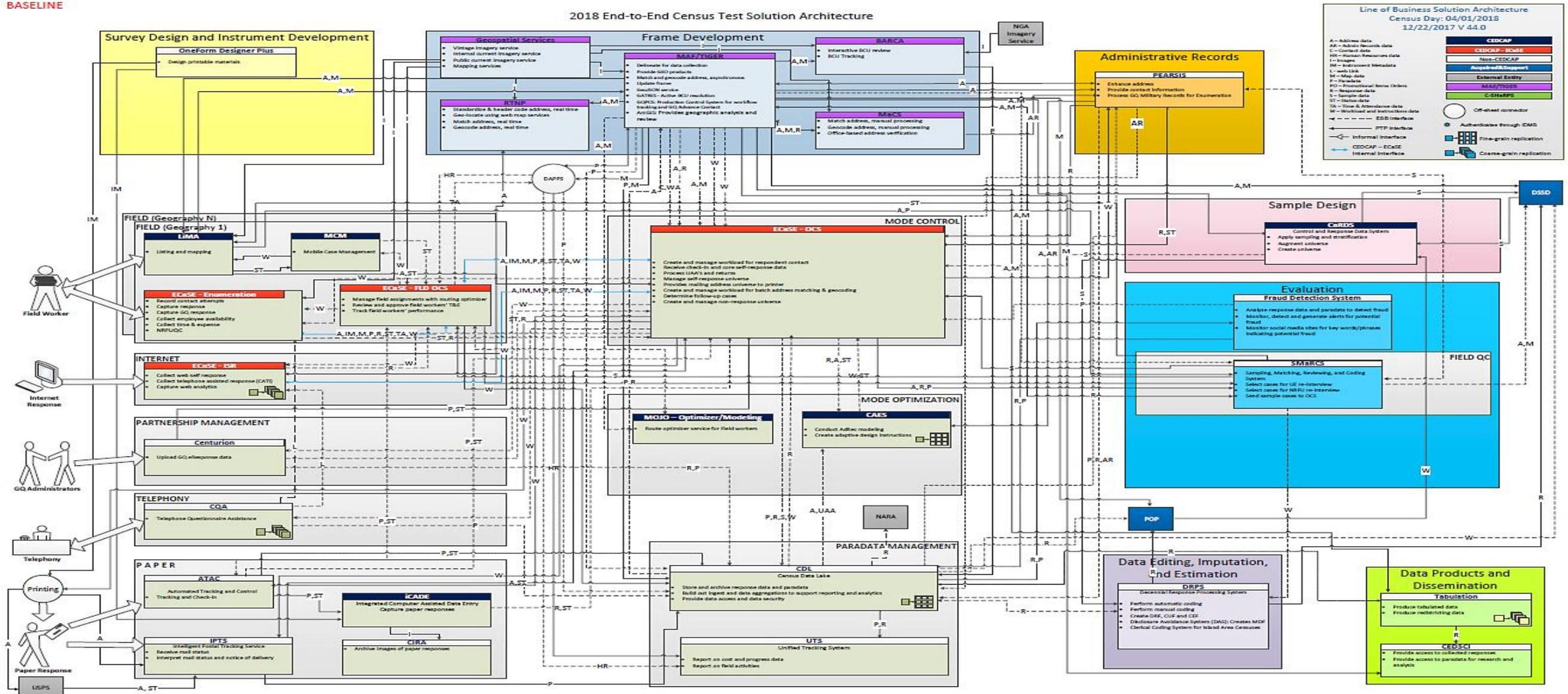
2018 End-to-End Census Test Upcoming Releases

2020 Census Systems Readiness

2018 End-to-End Census Test Solution Architecture

BASELINE

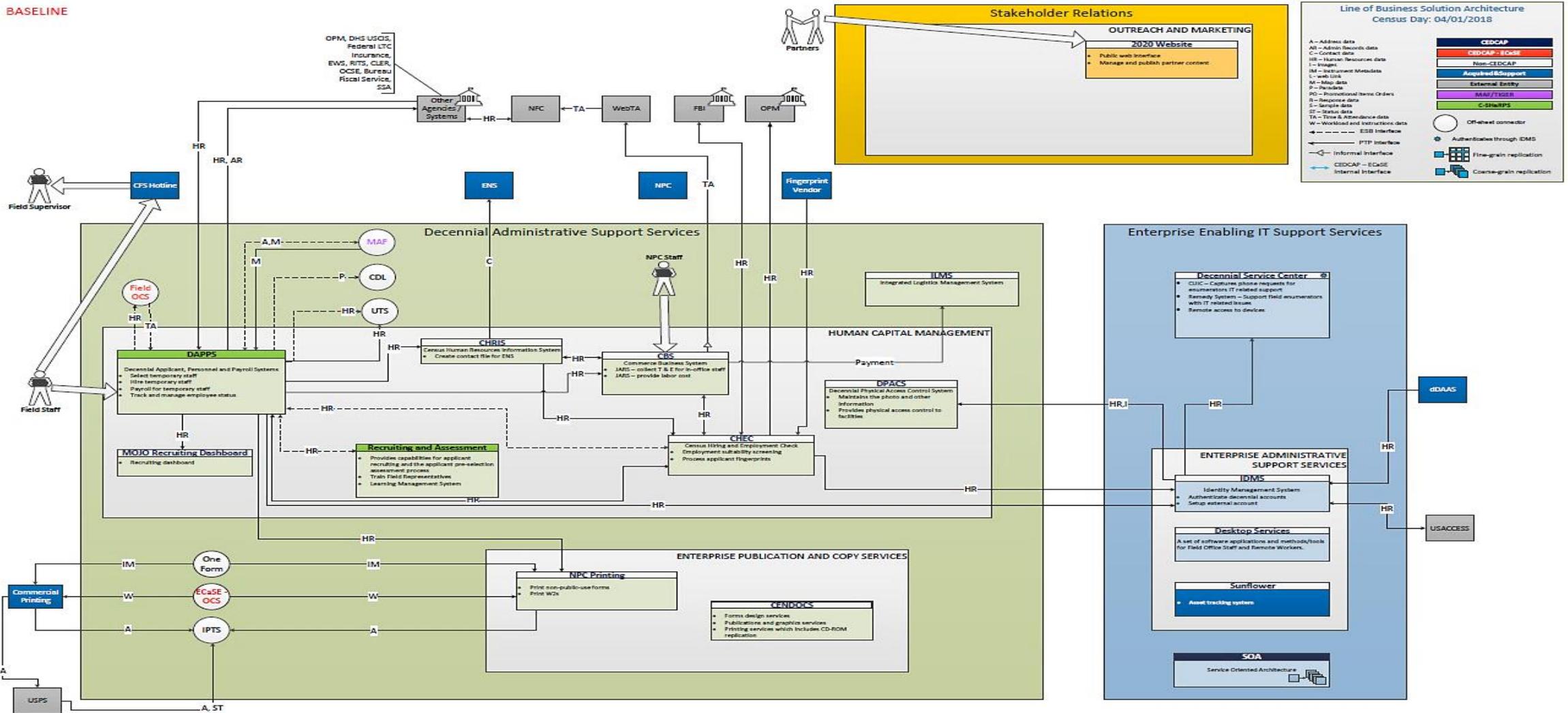
2018 End-to-End Census Test Solution Architecture



2020 Census Systems Readiness

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

BASELINE



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

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2020 Census Releases

2020 Census Releases	Operational Areas Supported	Test Readiness Review (TRR)	Production Readiness Review (PRR)	Conduct Operation
Release 1	Recruiting for all positions; Selection/Hiring/Training of Recruiting Assistants, Partnership Assistants, Office Operations Supervisors, and Clerks	5/21/2018	7/23/2018	9/1/2018
Release 2	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	11/5/2018	3/1/2019	5/1/2019
Release 3	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	2/19/2019	6/5/2019	11/1/2019
Release 4	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	10/3/2019	2/3/2020	7/1/2020

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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	
Test Readiness Review Dates	----	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	
Production Readiness Review Dates	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	
Conduct Operation Dates	----	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	
2020 Website							✓ ₃	✓ ₂	✓ ₃	
ATAC (Automated Tracking and Control)							✓ ₂ ✓ ₃	✓ ₁ ✓ ₂		
BARCA (Block Assessment, Research, and Classification Application)	✓									
CAES (Concurrent Analysis and Estimation System)								✓ ₁		
CaRDS (Control and Response Data System)							✓ ₂ ✓ ₃	✓ ₁ ✓ ₂	✓ ₂	
CBS (Commerce Business System)		✓	✓	✓ _{1,2}	✓	✓	✓ ₂ ✓ ₃	✓ ₁ ✓ ₂		
CDL (Census Data Lake)						✓	✓ ₂ ✓ ₃	✓ ₁ ✓ ₂	✓ ₂	✓ ₃
CEDSCI (Center for Enterprise Dissemination Services and Consumer Innovation)									✓ ₃	
CENDOCS (Census Document System)		✓	✓	✓ _{1,2}	✓					

✓_X = Participated/Will Participate in Census/Census Test (with TRR information)

Grey = Not Applicable

Blue = In production

Purple = CEDCaP System

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Conduct Operation Dates	----	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	
Centurion								✓ ₂		
CHEC (Census Hiring and Employment Check System)		✓	✓	✓ _{1,2}	✓	✓	✓ ₃			
CHRIS (Census Human Resources Information System)		✓	✓	✓ _{1,2}	✓	✓	✓ ₂ ✓ ₃	✓ ₁ ✓ ₂		
CIRA (Census Image Retrieval Application)							✓ ₂			
CQA (Census Questionnaire Assistance)							✓ ₂	✓ ₁		
DAPPS (Decennial Applicant, Personnel and Payroll Systems)		✓	✓	✓ _{1,2}	✓	✓	✓ ₃	✓ ₁ ✓ ₂		
Desktop Services		✓	✓	✓ _{1,2}	✓		✓ ₂ ✓ ₃	✓ ₁ ✓ ₂		
DRPS (Decennial Response Processing System)							✓ ₂	✓ ₁	✓ ₁ ✓ ₂ ✓ ₃	
DPACS (Decennial Physical Access Control System (PACS))						✓	✓ ₃			

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DSC (Decennial Service Center)		✓	✓	✓ _{1,2}	✓	✓	✓ ₂ ✓ ₃	✓ ₁ ✓ ₂		
ECaSE ENUM (Enterprise Censuses and Surveys Enabling Platform – Enumeration)						✓	✓ ₃	✓ ₁		
ECaSE FLD OCS (Enterprise Censuses and Surveys Enabling Platform – Field Operation Control System)			✓	✓ ₂	✓	✓	✓ ₃	✓ ₁ ✓ ₂		
ECaSE ISR (Enterprise Censuses and Surveys Enabling Platform – Internet Self-Response)							✓ ₂	✓ ₁		
ECaSE OCS (Enterprise Censuses and Surveys Enabling Platform – Operational Control System)				✓ ₂		✓	✓ ₂ ✓ ₃	✓ ₁ ✓ ₂		
FDS (Fraud Detection System)									✓ ₂	
Geospatial Services				✓ _{1,2}		✓	✓ ₂ ✓ ₃	✓ ₁ ✓ ₂		
iCADE (Integrated Computer Assisted Data Entry)							✓ ₂	✓ ₁ ✓ ₂		

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IDMS (Identity Management System)			✓	✓ _{1,2}	✓	✓	✓ ₂ ✓ ₃	✓ ₁ ✓ ₂	✓ ₃	
ILMS (Integrated Logistics Management System)				✓ _{1,2}	✓	✓		✓ ₁ ✓ ₂		
IPTS (Intelligent Postal Tracking System)							✓ ₂	✓ ₁ ✓ ₂		
LiMA (Listing and Mapping Application)				✓ ₂				✓ ₁		
MaCS (Matching and Coding Software)							✓ ₂			
MAF/TIGER (Master Address File/Topologically Integrated Geographic Encoding and Referencing Database)	✓	✓		✓ _{1,2}	✓	✓	✓ ₂ ✓ ₃	✓ ₁ ✓ ₂	✓ ₂	
MCM (Mobile Case Management)				✓ ₂				✓ ₁		
MOJO Optimizer/Modeler (MOJO – Optimizer/Modeling)				✓ _{1,2}				✓ ₁		

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Production Readiness Review Dates	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	
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MOJO Recruiting Dashboard		✓			✓	✓	✓ ₃			
NPC Printing (Printing at the National Processing Center)				✓ _{1,2}	✓		✓ ₂ ✓ ₃	✓ ₁ ✓ ₂		
OneForm Designer Plus	Standalone system; no program-level integration testing required									
PEARSIS (Production Environment for Administrative Records, Staging, Integration, and Storage)							✓ ₂	✓ ₁	✓ ₂ ✓ ₃	
R&A (Recruiting and Assessment)		✓	✓	✓ _{1,2}	✓	✓	✓ ₃	✓ ₁ ✓ ₂		
RTNP (Real Time Non-ID Processing)							✓ ₂			

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SMaRCS (Sampling, Matching, Reviewing, and Coding System)				✓ _{1,2}				✓ ₁	✓ ₂	
SOA (Service Oriented Architecture)			✓	✓ _{1,2}	✓	✓	✓ ₂ ✓ ₃	✓ ₁ ✓ ₂		
Tabulation (Decennial Tabulation System)									✓ ₃	
UTS (Unified Tracking System)	✓	✓	✓	✓ ₂	✓		✓ ₂ ✓ ₃	✓ ₁ ✓ ₂	✓ ₂	

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Production Readiness Review Dates	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	
Conduct Operation Dates	----	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	
Acquired and Support Systems										
CES (Center of Economic Studies)							✓ ₂ ✓ ₃	✓ ₁ ✓ ₂	✓ ₁ ✓ ₂ ✓ ₃	
CFS Hotline (Census Field Supervisor Hotline)			✓	✓ _{1,2}				✓ ₂		
Commercial Printing							✓ ₂	✓ ₁ ✓ ₂		
dDaaS (Decennial Device as a Service)						✓	✓ ₂ ✓ ₃	✓ ₁ ✓ ₂		
DSSD (Decennial Statistical Studies Division)							✓ ₂ ✓ ₃	✓ ₁ ✓ ₂	✓ ₂	
ENS (Emergency Notification System)		✓		✓ _{1,2}	✓	✓	✓ ₂ ✓ ₃	✓ ₁ ✓ ₂		
Fingerprint Vendor						✓	✓ ₂ ✓ ₃			
NPC (National Processing Center)							✓ ₂ ✓ ₃	✓ ₁ ✓ ₂	✓ ₁ ✓ ₂ ✓ ₃	
POP (Population Division)									✓ ₃	
Sunflower		✓	✓	✓ _{1,2}	✓			✓ ₁ ✓ ₂		

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

Release C-3 (22)

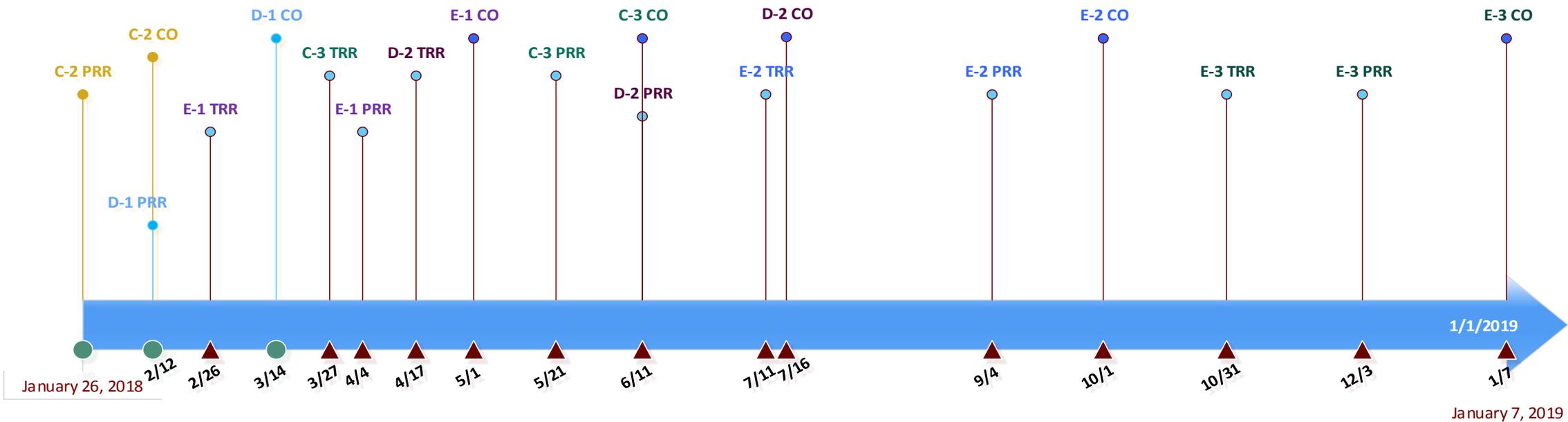
2020 Website, ATAC, CaRDS, CBS, CDL, CHEC, CHRIS, DAPPS, Desktop Services, DPACS, DSC, ECaSE ENUM, ECaSE FLD OCS, ECaSE OCS, Geospatial Services, IDMS, MAF/TIGER, MOJO Recruiting Dashboard, NPC Printing, R&A, SOA, UTS

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?