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Business Case

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Section A: Investment Summary Information

Investment Name

Census - 2020 Decennial Census, FY 2019 - FY 2023

Unique Investment Identifier

006-000402400

Investment Description

This investment covers Ramp up, Peak Operations and Closeout Phase (FYs 2019-2023) for the 2020 Census.

Agency

Department of Commerce

Point of Contact

Andre Mendes - CIO

email   202-482-4797

Investment Type

Major IT Investments

Bureau

Bureau of the Census

Mission Support

Not Applicable

Shared Service Category

Not Applicable

Shared Service Identifier

Not Applicable

Date Investment First Submitted

09/20/2021

Date of Last Investment Detail Update

05/31/2022

Section B: Investment Detail

Section B: Investment Detail

1. Briefly describe the investment's return on investment, including benefits internal and external to the government and outcomes achieved or planned.

The goal of the 2020 Census is to count everyone once, only once, and in the right place. As the cost of completing this goal has significantly increased each decade since 1970 as the population becomes more challenging to count, the Census Bureau undertook a challenge this decade to design the 2020 Census to cost less per housing unit than the 2010 Census (when adjusted for inflation), while continuing to maintain high quality results. The cost of repeating the 2010 Census methodology in 2020 is $120 per housing unit and the 2020 Census, as currently designed, is expected to cost $107 per housing unit. The Census Bureau plans to achieve this through the most automated, modern, and dynamic decennial census in history.
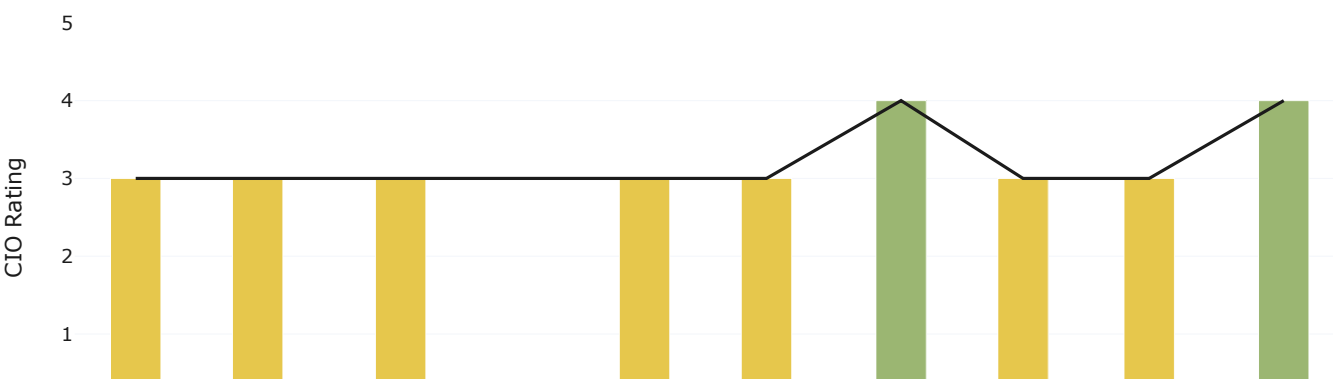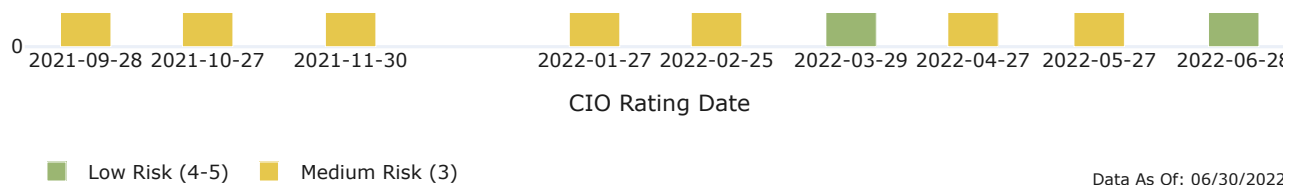
Section C: Investment and Contracts

Public URLs

- **http://www.census.gov/2020census**

Contracts

- **DOCYA132316NC0334**
- **1333LB18F00000042**
- **DOCTO003**
- **DOCYA132318NC0027**
- **DOCYA132317NC0190**
- **DOCYA132315BU0033**
- **1333LB18F00000333**
- **DOCYA132317NC0139**
- **1331L521F13230118**
- **1333LB20F00000046**
- **1333LB20F00000318**
- **1333LB19F00000221**
- **1333LB21F00000304**

Section D: Historic CIO Rating

CIO Rating Date

■ Low Risk (4-5)   ■ Medium Risk (3)   Data As Of: 06/30/2022

CIO Rating	Date	Comments
4	Jun 28, 2022	The Decennial investment covers Ramp up, Peak Operations, and Closeout Phase (FYs 2019-2023) for the 2020 Census. Accomplishments - Finalized LiMA - MCM (PES) Production. Conducted Internal Integration Test for Tabulation GRF-C (updated with PUMA/UA) - MAF/TIGER. Conducted Internal Integration Test for Tabulation GRF-N (updated with PUMA/UA) - MAF/TIGER. DRPS Supported NARA External Test. The investment is meeting all operational metrics and progressing as expected.
3	May 27, 2022	The Decennial investment covers Ramp up, Peak Operations, and Closeout Phase (FYs 2019-2023) for the 2020 Census. Accomplishments - Completed FHUFU Computer Matching/Processing National Person Estimation Operational Delivery. Finalized DRPS: IARP Production, PES - PCS Production and MAF/TIGER (PES) Production. Conducted Operation Closeout for FHUFU and ROSCO Closeout for FHUFU. MCM delivered Paradata (Outcome Codes), Case Status, and BCU Level Notes for PES FHUFU (flow basis). The investment is meeting all operational metrics and progressing as expected.
3	Apr 27, 2022	The Decennial investment covers Ramp up, Peak Operations, and Closeout Phase (FYs 2019-2023) for the 2020 Census. Accomplishments - Completed Systems Dispositions - Phase I including, final DSC Production, final Geospatial Services Production and final ERD Production. Complete CRM Disposition. Conducted PES National Person Estimation - Phase 1. CMMU delivered PES FHUFU Workload to ATAC/NPC. The investment is meeting all operational metrics and progressing as expected.
4	Mar 29, 2022	The Decennial investment covers Ramp up, Peak Operations, and Closeout Phase (FYs 2019-2023) for the 2020 Census. Accomplishments: Complete Systems Dispositions - Phase I. Final DSC Production, Geospatial Services Production and ERD Production. Complete CRM Disposition. Conduct PES National Person Estimation - Phase 1. The investment is meeting all operational metrics and progressing as expected.
3	Feb 25, 2022	The Decennial investment covers Ramp up, Peak Operations, and Closeout Phase (FYs 2019-2023) for the 2020 Census. Accomplishments: Participated in ORR Count Question Resolution Operational Delivery. Conducted User Acceptance Test for GMDR (ACS) for Tab/Dissemination - MAF/TIGER. Conducted ORR for CQR and obtained approval ORR. The investment is meeting all operational metrics and progressing as expected.
3	Jan 27, 2022	Decennial - The Decennial investment covers Ramp up, Peak Operations, and Closeout Phase (FYs 2019-2023) for the 2020 Census. Accomplishments: Develop Test Analysis Report (TAR) for Program-Level Testing for HU & Person Domain Estimation Operational Delivery; Develop Software for ZCTA Entity Relationship Files for Dissemination - MAF/TIGER; Release Software to IV&V for Indep. Testing ZCTA Entity Relationship Files for Dissemination; Approve Operational Readiness Review (ORR) for CM PES HU & Person Domain Estimation Tabulation/Dissemination. The investment is meeting all operational metrics and progressing as expected.
3	Nov 30, 2021	The Decennial investment covers Ramp up, Peak Operations, and Closeout Phase (FYs 2019-2023) for the 2020 Census. Accomplishments: Finalize CQR Processing Procedures; SMEs Approve PL Products in CEDSCI in Final Review; CAES Receives and Ingests Initial Assignments for PES PFU from Legacy UTS; Release to Production Software for Center of Population Files* for Dissemination - MAF/TIGER; Examine Results and Conduct Analysis for Self-Response Quality Assurance; Conduct Person Follow-up Field Data Collection. The 2020 Census program had an overall IT variance through the month of September of -$35.4M. More IT funds had been obligated than had been originally planned.
3	Oct 27, 2021	The Decennial investment covers Ramp up, Peak Operations, and Closeout Phase (FYs 2019-2023) for the 2020 Census. The investment accomplished all planned activities and has met all operational metric targets. This investment is is currently performing close-out activities.
3	Sep 28, 2021	Decennial - This investment covers Ramp up, Peak Operations, and Closeout Phase (FYs 2019-2023) for the 2020 Census. Accomplishments: Released to Production Software for DPP (National DHC updated with ZCTA) for Tabulation/Dissemination - MAF/TIGER. Created DPP (National DHC updated with ZCTA) for Tabulation/Dissemination - MAF/TIGER. Developed Software for TIGER/Line Shapefiles (ZCTA) for Dissemination - MAF/TIGER. Participated in PES User Acceptance Testing (UAT) for Person AFU Clerical Matching. DSSD Validated AdRec Enhanced PES PI CU-Risk Reporting. Decennial 2020 is rated a 3 because The 2020 Census program had an IT variance with high risks reported.

Data Last Updated On: 06/30/2022

Section E: Investment Spending

Table 1: Distribution by Spending Type

Spending Type	PY 2021	CY 2022	BY 2023
DME Costs	0	0	0
O&M Costs	385.217943	127.212216	50.713567
Total	385.217943	127.212216	50.713567

Table 2: Distribution by Cost Pools

Cost Pools	PY 2021	CY 2022	BY 2023
Internal Labor	30.07661	20.171261	3.646301
External Labor	259.56149	76.379133	28.785686
Outside Services	0	0	0
Hardware	19.64096	9.89373	6.456728
Software	44.13026	1.584308	0.268093
Facilities & Power	12.347806	5.868128	1.677834
Telecom	0.434917	0.187027	0.067055
Other	19.0259	13.128629	9.81187
Internal Services	0	0	0
Totals	385.217943	127.212216	50.713567

Cost in millions (M)

Table 3: Distribution by IT Towers

IT Tower	PY 2021	CY 2022	BY 2023
Security & Compliance	79.87479	25.739583	11.637036
IT Management	95.0884	2.69656	0.538965
Network	14.75468	2.211152	0.122343
Data	0	0	0
Compute	14.945386	4.675994	1.360011
Storage	0.59284	0.543692	0.614062
End User	5.29488	1.025454	0
Output	0	0	0
Application	72.75971	56.78974	17.586883
Delivery	24.774167	1.544088	0.11411
Platform	65.12255	14.79113	7.365022
Data Center	12.01054	17.194823	11.375135
Totals	385.217943	127.212216	50.713567

Cost in millions (M)

Data Last Updated On: 05/31/2022

Section F: Project and Activities Detail

Table 1: Project Details

Project Name	Project UID	Status	Project Life Cycle Cost ($M)	Cost Variance (%)	Start Date	End Date	Schedule Variance (%)	Schedule Variance (Days)

Low   Medium   High

Table 2: Activity Details

Unique Project ID	Activity Name	Activity Description	Planned Start Date	Projected Start Date	Actual Start Date	Planned Completion Date	Projected Completion Date	Actual Completion Date	Planned Total Cost ($M)	Projected Total Cost ($M)	Actual Total Cost ($M)

Table 3: Project Related Details

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