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Business Case

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Section A: Investment Summary Information

Investment Name	Unique Investment Identifier
Census - Geographic Support Systems (GSS)	006-000400900

Investment Description

This funding supports the integrated and automated computer based Geographic Support System crucial to all censuses and household surveys.

Agency
Department of Commerce



Point of Contact
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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

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

Benefits of the GSS include: 1. A geographic framework from which the U.S. Census Bureau can generate maps required to support boundary collection and validation activities, address list review activities, field data collection operations, and the data product dissemination program. 2. A basis for geographic-based requirements for use in updating the MAF/TIGER System with city-style addresses for new housing units, some new streets, and revised boundary information for some governments. 3. Direct information to the GeoPlatform, which benefits all spatial data customers including tribal federal, state, and local governments, other governments, and private citizens by providing a common, consistent source of spatial data. **Benefits of the GSS Initiative include:** 1. The improvement of address coverage in the most difficult to update areas, such as those that do not have or use city-style addresses and includes improving address updates by utilizing tribal state, and local government updates; updating the address inventory in areas not covered by the U.S. Postal Services Delivery Sequence file (DSF); and collecting GPS locations for new addresses. 2. A continual update of streets and their attributes, and the expansion of quality measurement procedures to assess address quality, identify areas for update, and evaluate and improve updating procedures; in order to determine suitability for current surveys and other programs, and refine the address universe determination for various programs. 3. The Census Bureau will actively foster partnerships and encourage greater participation by recruiting new tribal state, and local government partners for voluntary, ad hoc contributions of geospatial files to identify new streets, their names, and their address ranges, and most importantly, voluntary contribution of their address lists. 4. Continued product quality control which includes improved quality measurements and assessments of the MAF/TIGER System (particularly, the Address List) to provide data critical to conducting a selective address canvass in FY19 in support of the Decennial Census. Additionally, the GSS Program increasingly supports geocoding improvements beyond the incorporation of the 2010 Census address data into the MAF/TIGER System.

Section C: Investment and Contracts

Public URLs

- www.census.gov/geo/www
- www.archives.gov/federal-register/executive-orders/pdf/12906.pdf
- <http://www.gpo.gov/fdsys/pkg/FR-1995-11-27/pdf/95-28854.pdf>
- <http://www.oig.doc.gov/OIGPublications/TMC-FY12-OIG-12-003.pdf>
- <http://gao.gov/products/GAO-12-80>
- http://www.census.gov/privacy/data_protection/title_13_-_protection_of_confidential_information.html
- http://www.whitehouse.gov/omb/circulars_a016_rev/
- <http://www.fgdc.gov/>
- <http://www.fgdc.gov/geospatial-lob/>
- <http://www.fgdc.gov/nsdi-initiatives>
- <http://geonames.usgs.gov/>
- <http://services.nationalmap.gov/ArcGIS/rest/services/transportation/MapServer>
- http://catalog.data.gov/dataset?organization_type=County+Government#topic=counties_navigation
- <http://www.oig.doc.gov/OIGPublications/OSE-18599.pdf>
- www.gao.gov/new.items/d06272.pdf
- <http://www.oig.doc.gov/Pages/Census-2010-Final-Report-to-Congress.aspx>
- http://www.fsa.usda.gov/Internet/FSA_File/naip_2009_info_final.pdf

Contracts

- DOCYA132313NC0088
- 1333LB19F00000166
- DOCYA132318NC0027
- DOCYA132316NC0334
- DOCYA132311CN0034
- 1333LB20F00000429
- 1333-LB-19-F-0000-0609
- YA1323-17-NC-0195

- [1333LB20F00000507](#)
- [YA1323-17-NC-0254](#)
- [1333LB19F00000326](#)
- [1333LB21A00000007](#)

Section D: Historic CIO Rating



CIO Rating	Date	Comments
4	Jun 28, 2022	The investment supports the integrated and automated computer-based Geographic Support System crucial to all censuses and household surveys. GSS continues to provide the Census address list, maps, geographic reference files, and processing systems to meet the geographic requirements of all Census Bureau programs and operations. Accomplishments: Imagery acquired and received by Geography Division in February has been tested, cataloged and ingested into the Imagery Service within the three-month timeline of receiving the data. This metric is complete with 100% on-time. Response rates on BAS are currently at a 79.4%. Geo has also created Vintage 52 through May (2022 American Community Survey data extract in Test Environment). Finished receiving BAS Responses (Online, Phone, Email) - May 2022 Investment is progressing as expected.
4	May 27, 2022	The investment supports the integrated and automated computer-based Geographic Support System crucial to all censuses and household surveys. GSS continues to provide the Census address list, maps, geographic reference files, and processing systems to meet the geographic requirements of all Census Bureau programs and operations. Accomplishments: Imagery acquired and received by Geography Division in January was a/ tested, b.) cataloged, and c.) ingested into Geography Division's Imagery Service within three months of receipt 100% of time. GSP submitted Generalized Public ACS21 boundary files to the Website for April 2022. On track to update and create Vintage 52 which is 2022 American Community Survey data extract. Investment is progressing as expected.
4	Apr 27, 2022	The investment supports the integrated and automated computer-based Geographic Support System crucial to all censuses and household surveys. GSS continues to provide the Census address list, maps, geographic reference files, and processing systems to meet the geographic requirements of all Census Bureau programs and operations. Accomplishments: continuing to prepare for Post Generalized Public ACS21 Boundary Files to Website. This update will provide Post Generalized Public ACS21 Boundary Files. The investment is on track to update Boundary file updates to website in April 2022. Investment is progressing as expected.
4	Mar 29, 2022	The investment supports the integrated and automated computer-based Geographic Support System crucial to all censuses and household surveys. GSS continues to provide the Census address list, maps, geographic reference files, and processing systems to meet the geographic requirements of all Census Bureau programs and operations. Accomplishments: continues to prepare for a website update in April 2022. This update will provide Post Generalized Public ACS21 Boundary Files. Progressing as expected.
4	Feb 24, 2022	The investment supports the integrated and automated computer-based Geographic Support System crucial to all censuses and household surveys. GSS continues to provide the Census address list, maps, geographic reference files, and processing systems to meet the geographic requirements of all Census Bureau programs and operations. Accomplishments: Delivered American Community Survey Master Address File Extract in Files in SAS format to customers along with delivering Address Data Dumping to Listing and Mapping. Progressing with a performance metric delay.

CIO Rating	Date	Comments
4	Jan 27, 2022	The investment supports the integrated and automated computer-based Geographic Support System crucial to all censuses and household surveys. GSS continues to provide the Census address list, maps, geographic reference files, and processing systems to meet the geographic requirements of all Census Bureau programs and operations. Accomplishments: Posted BAS (Boundary Annexation Survey) pdf maps and partnership shapefiles December 2021. Progressing with a performance metric delay.
4	Nov 30, 2021	The investment supports the integrated and automated computer based Geographic Support System crucial to all censuses and household surveys. GSS continues to provide the Census address list, maps, geographic reference files, and processing systems to meet the geographic requirements of all Census Bureau programs and operations. Accomplishments: Delivered Merged Geodatabases for SEHSD/SDs via Kiteworks. GSP JAGUAR project is complete and in production. Progressing with a performance metric delay.
4	Oct 27, 2021	The investment supports the integrated and automated computer based Geographic Support System crucial to all censuses and household surveys. GSS continues to provide the Census address list, maps, geographic reference files, and processing systems to meet the geographic requirements of all Census Bureau programs and operations. Accomplishments - Delivered Merged Delivered Spatial and Address Extract Data Dump Files to ADSD for LiMA. Delivered GRF-Cs Oracle Dump Files to ADSD for LiMA. Delivered ACS/PEGACUS SAS MAFX files & notify ACS, ERD/CODS, LEHD, DSMD, SEHSD, DSSD, POP, PEARSIS, IRE, and PPES-PCS. Delivered Vintage 51 ACS/PEGACUS SAS Dataset GRF-C/Ns to ACS, ERD/CODS, LEHD, DSMD, SEHSD, DSSD, POP, PEARSIS, IRE, and PES-PCS; Vintage 11 GRF-Cs only. Executing with moderately low risk.
4	Sep 28, 2021	This investment supports the integrated and automated computer based Geographic Support System crucial to all censuses and household surveys. Accomplishments: continues to provide the Census address list, maps, geographic reference files, and processing systems to meet the geographic requirements of all Census Bureau programs and operations. GSS: Delivered Vintage 51 ACS/PEGACUS SAS Dataset GRF-C/Ns to ACS, ERD/CODS, LEHD, DSMD, SEHSD, DSSD, POP, PEARSIS, IRE, and PES-PCS; Vintage 11 GRF. J.A.G.U.A.R project was completed and now in the production stage to make investment O&M reporting only.

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	0.3122	0	0
O&M Costs	28.269418	30.37702	46.417
Total	28.581618	30.37702	46.417

Table 2: Distribution by Cost Pools			
Cost Pools	PY 2021	CY 2022	BY 2023
Internal Labor	8.60358	7.94161	15.727
External Labor	12.05902	11.92243	18.302
Outside Services	0	0	0
Hardware	2.09223	3.1594	1.546
Software	0	0	0
Facilities & Power	1.65914	2.31691	0.533
Telecom	0.04153	0.04126	0
Other	4.126118	4.99541	10.309
Internal Services	0	0	0
Totals	28.581618	30.37702	46.417

Cost in millions (M)

Table 3: Distribution by IT Towers

IT Towers	IT Tower	PY 2021	CY 2022	BY 2023
	Security & Compliance	0	0	0
	IT Management	0	0	0
	Network	0	0	0
	Data	0	0	0
	Compute	0	0	0
	Storage	0	0	0
	End User	0	0	0
	Output	0	0	0
	Application	1.473408	1.31632	7.432
	Delivery	7.06478	6.91668	3.416
	Platform	20.04343	22.14402	35.569
	Data Center	0	0	0
	Totals	28.581618	30.37702	46.417
	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)
JAGUAR replacement for GATRES	4009E19019	Complete	1.36	-41	2019-04-09	2021-02-19	11	11
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)
4009E19019	View and edit spatial data in the Master Address File	COTS web-based mapping application that will replace the current GATRES software.	2019-05-19	2019-05-19	2019-05-19	2020-12-15	2021-02-01	2021-02-19	1.36	1.363	0.81

Table 3: Project Related Details
<p>JAGUAR replacement for GATRES</p> <p>1. Are information technology investments adequately implementing incremental development methodology? (Y/N)</p> <p>2. What is the frequency of incremental development iterations? (ex. 1 month, 3 months, 6 months, 12 months or greater)</p>

3. Please describe the iterative development methodology being employed. (500 characters or less)

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