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# Business Case

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## Section A: Investment Summary Information

Investment Name	Unique Investment Identifier
<b>BEA Estimation Information Technology System (BEA-EITS) for Measuring the Changing US Economy.</b>	<b>006-000000129</b>

### Investment Description

BEA is the world's trusted impartial source of comprehensive data about the U.S. economy. BEA statistics, free and accessible to all, support economic growth by informing decisions of businesses, entrepreneurs, households and governments. The BEA Estimation IT System encompasses BEA's core economic processing system, and directly supports BEA's mission.

Agency		Point of Contact	
<b>Department of Commerce</b>		<b>Andre Mendes - CIO</b>	
		<a href="#">email</a>	<a href="#">202-482-4797</a>
Investment Type		Bureau	
<b>Major IT Investments</b>		<b>Economics and Statistics Administration</b>	
Mission Support		Shared Service Category	
<b>Not Applicable</b>		<b>Not Applicable</b>	
Shared Service Identifier			
<b>Not Applicable</b>			
Date Investment First Submitted		Date of Last Investment Detail Update	
<b>09/20/2021</b>		<b>05/31/2022</b>	

## 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 Bureau of Economic Analysis produces comprehensive measures of the U.S. economy by maintaining national, international, regional, and industry accounts. From this data BEA produces more than 60 economic statistical estimates each year, including some of the most closely watched economic statistics that influence the decisions made by government officials, businesses, and individuals. BEA's economic statistics, which provide a comprehensive, up-to-date picture of the U.S. economy, are key ingredients in critical decisions affecting monetary policy, tax and budget projections, and business investment plans. The cornerstone of BEA's statistics is the national income and product accounts (NIPAs), which feature the estimates of gross domestic product (GDP) and related measures. Relatively small investments in improvements to BEA accounts can potentially have very large effects. If the more accurate data flowing from these investments were to raise today's GDP growth by as little as 1/100 of 1 percentage point, it would raise GDP by \$1.5 billion each year. The budgetary effects of a 1% lower projection of real GDP growth could increase the deficit by \$3.5 trillion over 10 years. Over \$300B of Federal Funds are allocated to states based on BEA data and over 20 states have statutory limits on revenues and spending tied to BEA's state personal income statistics or some of its components. The DME portion of this investment funds BEA's highly successful statistical production modernization program, which enables economists to spend less hours underutilized in table checking and data transfers between systems; and can now be used for analysis. These efficiencies contribute to Bureau plans to make available additional internal resources to support critical measurement advances in important areas such as innovation, health care, research and development, household and discretionary income, and the distribution of income within the economy. Enhancements to available data in all these areas are critical to decision makers.

## Section C: Investment and Contracts

### Public URLs

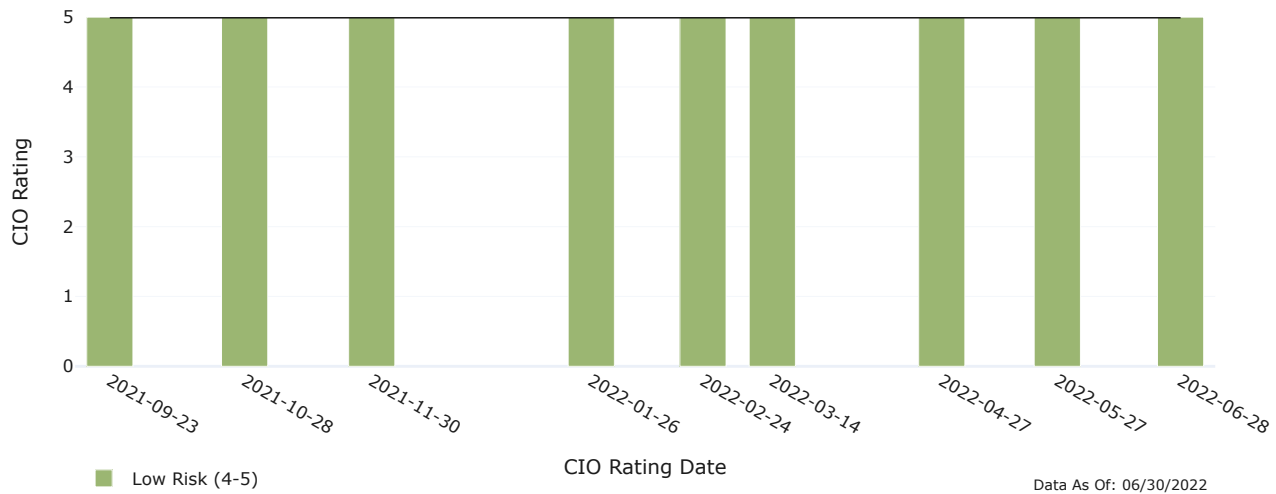
- <https://www.bea.gov>
- <https://www.bea.gov/developers>

### Contracts

- 1331L518F13210207
- 140D0421C0004
- 1331L519C13210011
- 140D0421F0001
- 1331L519F13210006
- 1331L521F13210092
- 1331L520F13210588
- 1331L519F13210868
- 1331L520F13210662
- 1331L521F13210177
- 1331L521P13210044
- 1331L521C13210029
- 1331L522F13210054
- 1331L522F13210062
- 1331L522F13210046
- 1331L519F13210321
- 1331L521F13210370
- 140D0421C0019
- 1331L521F13210076
- 1331L519F13ES0765
- 1331L521P13210062
- DOCYA132116NC0341
- 1331L521P13210077
- 1331L521F13210579
- 1331L521F13210283
- 1331L521F13210376
- 1331L521F13210282
- 1331L521F13210292

## Section D: Historic CIO Rating

## Section D. Historic CIO Rating



CIO Rating	Date	Comments
5	Jun 28, 2022	The BEA Estimation IT System encompasses BEA's core economic processing system, and directly supports BEA's mission. Accomplishments: Supported the timely, relevant, and accurate release of 3 critical estimates measuring U.S. economic activity. Initiated Azure infrastructure buildout. Built out the underlying Azure networking infrastructure. Investment progressing as expected.
5	May 27, 2022	The BEA Estimation IT System encompasses BEA's core economic processing system, and directly supports BEA's mission. Accomplishments: Supported the timely, relevant, and accurate release of 3 critical estimates measuring U.S. economic activity. Completed phase-three tasks of conference room refresh project. Reactivated Wi-Fi and printers to facilitate the return to the building. Completed Azure design and preliminary budget for 5 migration tasks.
5	Apr 27, 2022	The BEA Estimation IT System encompasses BEA's core economic processing system, and directly supports BEA's mission. Accomplishments: Supported the timely, relevant, and accurate release of 9 critical estimates measuring U.S. economic activity. Completed phase-two tasks of conference room refresh project. Held WITS EIS kick-off meeting. Migrated Regional production databases to the cloud. Investment progressing as expected.
5	Mar 14, 2022	The BEA Estimation IT System encompasses BEA's core economic processing system, and directly supports BEA's mission. Accomplishments: Supported the timely, relevant, and accurate release of 3 critical estimates measuring U.S. economic activity. Distributed 60 monitors for home use to users. Completed phase one tasks for conference room refresh project. Refreshed desktop technology in the OUSEA space. Finalized MTIPS EIS architecture. Completed open-source statistical agency analysis in support of Python implementation. Investment progressing as expected.
5	Feb 24, 2022	The BEA Estimation IT System encompasses BEA's core economic processing system, and directly supports BEA's mission. Accomplishments: Supported the timely, relevant, and accurate release of 3 critical estimates measuring U.S. economic activity. Completed the project to replace telework laptops model 5570 that were 5 years old. Planned IPSS transition from Lumen to Verizon. Revised scans to incorporate BOD 22-01 and EOD 22-02 baselines.
5	Jan 26, 2022	This investment supports timely, accurate release of more than 60 critical economic estimates per year. The BEA-EITS for Measuring the Changing U.S. Economy supports production and dissemination of BEA's critical economic estimates as well as statistical confidentiality, including legal requirements. BEA is pursuing a Statistical Production Modernization program which seeks to simplify and modernize processes and tools by first completing business process reengineering and then updating. Accomplishments: Supported the timely, relevant, and accurate release of 10 critical estimates measuring U.S. economic activity. Replaced 30 telework laptops model 5570 that were 5 years old. Provisioned production core statistical systems in the cloud.
5	Nov 30, 2021	This investment supports timely, accurate release of more than 60 critical economic estimates per year. The BEA-EITS for Measuring the Changing U.S. Economy supports production and dissemination of BEA's critical economic estimates as well as statistical confidentiality, including legal requirements. BEA is pursuing a Statistical Production Modernization program which seeks to simplify and modernize processes and tools by first completing business process reengineering and then updating. Accomplishments -Supported the timely, relevant, and accurate release of 6 critical estimates measuring U.S. economic activity. Replaced 30 telework laptops model 5570 that were 5 years old. Completed barcoding 100 new laptops. Implemented a new vLAN to support the Python Sandbox. Increased internet bandwidth on both circuits 200 to 500Mbps.
5	Oct 28, 2021	This investment supports timely, accurate release of more than 60 critical economic estimates per year. The BEA-EITS for Measuring the Changing U.S. Economy supports production and dissemination of BEA's critical economic estimates as well as statistical confidentiality, including legal requirements. BEA is pursuing a Statistical Production Modernization program which seeks to simplify and modernize processes and tools by first completing business process reengineering and then updating. Accomplishments -Supported the timely, relevant, and accurate release of 5 critical estimates measuring U.S. economic activity. Replaced 20 telework laptops model 5570 that were 5 years old. Installed an all-in-one webcam soundbar plug and play device for 3 conf rooms. Installed headsets and webcams for 25 workstations. Reviewed Source Code Management Policy with CIO.

CIO Rating	Date	Comments
5	Sep 23, 2021	Supported the timely, relevant, and accurate release of 4 critical estimates measuring U.S. economic activity. Replaced the final 30 telework laptops model 6540 that were 5 years old. Installed 30 thin clients for new employees. Stood up cloud-based Test statistical database servers. Implemented newly acquired Varonis modules. Incorporated NIST Control Families PS, PE and IR into SSP. Incorporated revisions to Source Code Management Policy. Extended Kali Scans with Mozilla Observatory Scans.

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	5.920527	6.020305	6.22005
O&M Costs	10.240291	9.010082	10.086877
Total	16.160818	15.030387	16.306927

Table 2: Distribution by Cost Pools			
Cost Pools	PY 2021	CY 2022	BY 2023
Internal Labor	4.916738	5.157659	5.410386
External Labor	0	0	0
Outside Services	4.166177	2.550914	3.47612
Hardware	2.117546	2.308727	2.256944
Software	4.960357	5.013087	5.163477
Facilities & Power	0	0	0
Telecom	0	0	0
Other	0	0	0
Internal Services	0	0	0
Totals	16.160818	15.030387	16.306927

Cost Pools

Cost in millions (M)

Table 3: Distribution by 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	3.289336	4.043245	6.610757
Storage	0	0	0
End User	0	0	0
Output	0.376343	0.378949	0.402474
Application	11.947275	10.542842	9.228346
Delivery	0.547864	0.065351	0.06535
Platform	0	0	0
Data Center	0	0	0
Totals	16.160818	15.030387	16.306927

IT Towers

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)
FY21 Statistical Production Modernization	5252D21111	Complete	5.89	0.7	2020-10-01	2021-09-30	0	0
FY22 Statistical Production Modernization	5252D22111	In Progress	6.02	2.1	2021-10-01	2022-09-30	0	0
FY20 Statistical Production Modernization	5252D20111	Complete	6.01	-0.23	2019-10-01	2020-09-30	0.55	0.55

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)
5252D21111	Incorporate additional functionality in the Universe Estimation and SPS modernized systems	Incorporate additional functionality in the Universe Estimation and SPS modernized systems needed for processing of the Direct Investment quarterly surveys, including the backloading of data and enhance the capability to share date.	2020-10-01	2020-10-01	2020-10-02	2021-03-31	2021-03-31	2021-03-29	0.59	0.589177	0.58
5252D21111	Harness Production Efficiencies	Harness Production Efficiencies	2020-10-01	2020-10-01	2020-10-01	2021-03-31	2021-03-31	2021-04-01	1.77	1.767531	1.75
5252D21111	Support Enhanced Statistics 2	Support Enhanced Statistics 2	2021-04-01	2021-04-01	2021-04-01	2021-09-30	2021-09-30	2021-09-30	1.18	1.178354	1.18
5252D21111	Develop prototype system for aggregation and review capabilities in the GDP by County System	Develop prototype system for aggregation and review capabilities in the GDP by County System and incorporate additional review and analysis capabilities into GDP by State and State Personal Income processing systems.	2021-04-01	2021-04-01	2021-04-01	2021-09-30	2021-09-30	2021-09-30	0.59	0.589177	0.59

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)
5252D21111	Enhance Survey Processing System ecosystem to enable the cross-survey analytical capabilities	Enhance the Survey Processing System ecosystem to enable the cross-survey analytical capabilities of SPS+, including improved survey linking capabilities and the inclusion of Transportation Survey datasets.	2021-04-01	2021-04-01	2021-04-02	2021-09-30	2021-09-30	2021-09-29	0.59	0.589177	0.59
5252D21111	FY21 Statistical Production Modernization	Complete ongoing modernization of BEA estimation IT production components.	2020-10-01	2020-10-01	2020-10-01	2021-09-30	2021-09-30	2021-09-30	5.89	5.89177	5.85
5252D21111	Develop schema for a new Regional County Level Statistical System & incorporate additional functions	Develop schema for a new Regional County Level Statistical System and incorporate additional functionality into the GDP and Income by State systems.	2020-10-01	2020-10-01	2020-10-01	2021-03-31	2021-03-31	2021-03-30	0.59	0.589177	0.58
5252D21111	Incorporate additional modernized Industry statistical processing components.	Incorporate additional modernized Industry statistical processing components (e.g. chain dollars) in support of March simultaneous release Gross Domestic Product statistics on the Product, Income, and Industry dimensions.	2020-10-01	2020-10-01	2020-10-06	2021-03-31	2021-03-31	2021-03-31	1.18	1.178354	1.15
5252D21111	Support Enhanced Statistics	Support Enhanced Statistics	2020-10-01	2020-10-01	2020-10-01	2021-03-31	2021-03-31	2021-03-30	1.18	1.178354	1.16
5252D21111	Migrate and test the transition of the Regional Income System (RIPS+) to a cloud environment.	Migrate and test the transition of the Regional Income System (RIPS+) to a cloud environment.	2020-10-01	2020-10-01	2020-10-01	2021-03-31	2021-03-31	2021-04-01	0.59	0.589177	0.59
5252D21111	Harness Production Efficiencies 2	Harness Production Efficiencies 2	2021-04-01	2021-04-01	2021-04-02	2021-09-30	2021-09-30	2021-09-28	1.77	1.767531	1.77

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)
5252D21111	Enhance the NAPS 2.0 processing system chaining and aggregation capabilities	Enhance the NAPS 2.0 processing system chaining and aggregation capabilities and build the machinery necessary to load submission files. Expand the Command and Control capabilities in IIPS.	2021-04-01	2021-04-01	2021-04-05	2021-09-30	2021-09-30	2021-09-27	1.18	1.178354	1.17
5252D21111	Initialize and migrate the modernization development environments in the Microsoft Azure cloud	Initialize and migrate the modernization development environments in the Microsoft Azure cloud and complete performance testing and configuration of SQL and IIS/CF servers within the consolidated server architecture.	2021-04-01	2021-04-01	2021-04-02	2021-09-30	2021-09-30	2021-09-28	0.59	0.589177	0.59
5252D22111	FY22 Statistical Production Modernization	Ongoing modernization of BEA estimation IT production components.	2021-10-01	2021-10-01	2021-10-01	2022-09-30	2022-09-30		6.02	6.020303	3.88
5252D22111	Develop and test a prototype processing system for sub-national components of U.S. GDP .	Develop and test a prototype processing system for sub-national components of U.S. GDP.	2021-10-01	2021-10-01	2021-10-05	2022-03-31	2022-03-31	2022-03-29	0.6	0.60203	0.57
5252D22111	Harness Production Efficiencies by implementing Cross-Account Functionalities.	Harness Production Efficiencies by implementing Cross-Account Functionalities.	2021-10-01	2021-10-01	2021-10-01	2022-03-31	2022-03-31	2022-03-31	1.81	1.806091	1.74
5252D22111	Enhance the Survey Processing System to incorporate functionality to support the publication.	Enhance the Survey Processing System to incorporate functionality to support the publication of transportation surveys and new debt by currency statistics.	2021-10-01	2021-10-01	2021-10-01	2022-03-31	2022-03-31	2022-03-30	0.6	0.60203	0.57

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)
5252D22111	Validate output of enhanced NAPS 2.0 processing system chaining and aggregation .	Validate output of enhanced NAPS 2.0 processing system chaining and aggregation and begin parallel testing with legacy IIPS system in real time.	2021-10-01	2021-10-01	2021-10-04	2022-03-31	2022-03-31	2022-03-31	1.35	1.354568	1.3
5252D22111	Support Enhanced Statistics	Support Enhanced Statistics	2021-10-01	2021-10-01	2021-10-01	2022-03-31	2022-03-31	2022-03-30	1.2	1.20406	1.14
5252D22111	Migrate modernization environments	Complete migration of the modernization test and production environments in the Microsoft Azure cloud. Complete performance testing and configuration of SQL and IIS/CF servers within the consolidated server architecture.	2021-10-01	2021-10-01	2021-10-01	2022-03-31	2022-03-31	2022-03-28	0.45	0.451523	0.44
5252D22111	International Economic Accounts	Incorporate all remaining surveys into SPS+. Enhance the data analysis, editing, viz, and validation features. Invest in enhancements to the One BEA Data. Determine path to modernize survey collection.	2022-04-01	2022-04-01	2022-04-05	2022-09-30	2022-09-30		0.9	0.903046	0.3



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)
5252D22111	Regional Economic Accounts	Build VIOLET+ for state and county GDP statistics using RIPS+ platform. Develop and enhance data analysis and viz tools for increased navigation capabilities. Support RIPS+ system for state and county income statistics. Enhance feature updates.	2022-04-01	2022-04-01	2022-04-04	2022-09-30	2022-09-30		0.9	0.903046	0.3
5252D22111	Support enhanced statistics and harness production efficiencies.	Support enhanced statistics and harness production efficiencies.	2022-04-01	2022-04-01	2022-04-01	2022-09-30	2022-09-30		3.01	3.010152	1
5252D22111	National Economic Accounts	Integrate the National and Industry GDP systems through development of the NAPS 2.0 system. Automate the legacy GDP by (IIPS) to increase stability and reduce risk during NAPS 2.0 development. Support NAPS system and enhance with feature updates.	2022-04-01	2022-04-01	2022-04-01	2022-09-30	2022-09-30		1.2	1.20406	0.4
5252D20111	Expand the analytic capabilities of the Survey Processing System	Expand the analytic capabilities of the Survey Processing System including the ability to review company ownership reports across time and surveys. Prepare the Survey Processing System to accept upcoming benchmark survey results.	2020-04-01	2020-04-01	2020-04-01	2020-09-30	2020-09-30	2020-10-01	0.6	0.600946	0.62

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)
5252D20111	Implement new methodologies	Implement new methodologies into Regional Production Systems including a new method for creating the regional Advance Annual GDP by State statistics.	2019-10-01	2019-10-01	2019-10-01	2020-03-31	2020-03-31	2020-04-03	0.45	0.45071	0.45
5252D20111	Expand survey processing	Expand survey processing to include additional functionalities including the incorporation of a new benchmark survey	2019-10-01	2019-10-01	2019-10-03	2020-03-31	2020-03-31	2020-04-01	0.6	0.60095	0.59
5252D20111	Utilize one BEA Data System	Utilize one BEA Data System to enhance integration of Survey and Balance of Payments processing focusing on current account and financial account data.	2019-10-01	2019-10-01	2019-10-04	2020-03-31	2020-03-31	2020-04-02	0.6	0.60095	0.6
5252D20111	Develop user analytic tools and data structures	Develop user analytic tools and data structures to support Industry National Integration	2019-10-01	2019-10-01	2019-10-01	2020-03-31	2020-03-31	2020-04-02	1.35	1.35212	1.31
5252D20111	Enhance the integration of the One BEA Data System (OBDS)	Enhance the integration of the One BEA Data System (OBDS) with existing modernized processing systems and the network of Data Hub connections.	2020-04-01	2020-04-01	2020-04-03	2020-09-30	2020-09-30	2020-10-02	0.6	0.600946	0.61

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)
5252D20111	Develop data structures and tools	Develop the data structures and tools necessary to integrate the IIPS, IEP, and NAPS processing systems to integrate GDP and GDP by Industry processes including the publication, deflation, and balancing calculations.	2020-04-01	2020-04-01	2020-04-01	2020-09-30	2020-09-30	2020-09-30	1.2	1.201892	1.24
5252D20111	FY20 Statistical Production Modernization	Complete ongoing modernization of BEA estimation IT production components.	2019-10-01	2019-10-01	2019-10-01	2020-09-30	2020-09-30	2020-10-02	6.01	6.00946	6.02
5252D20111	Support Enhanced Statistics	Support Enhanced Statistics	2019-10-01	2019-10-01	2019-10-01	2020-03-31	2020-03-31	2020-04-03	1.05	1.05166	1.04
5252D20111	Harness Production Efficiencies	Harness Production Efficiencies by Implementing Cross-Account Functionalities	2019-10-01	2019-10-01	2019-10-01	2020-03-31	2020-03-31	2020-04-02	1.95	1.95307	1.91
5252D20111	Implement new data and metadata review capabilities	Implement new data and metadata review capabilities into Regional Production and Regional Income Systems	2020-04-01	2020-04-01	2020-04-01	2020-09-30	2020-09-30	2020-10-01	1.2	1.201892	1.23
5252D20111	Implement new data and metadata review capabilities	Implement new data and metadata review capabilities into Regional Production and Regional Income Systems.	2020-04-01	2020-04-01	2020-04-02	2020-09-30	2020-09-30	2020-09-29	0.6	0.600946	0.61
5252D20111	Harness Production Efficiencies 2	Harness Production Efficiencies by Implementing Cross-Account Functionalities.	2020-04-01	2020-04-01	2020-04-01	2020-09-30	2020-09-30	2020-10-02	1.8	1.802838	1.85

**Table 3: Project Related Details****FY21 Statistical Production Modernization**

1. Are information technology investments adequately implementing incremental development methodology? (Y/N)

Yes

2. What is the frequency of incremental development iterations? (ex. 1 month, 3 months, 6 months, 12 months or greater)

**Months**

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

**The iterative development methodology being used is progressive prototyping.**

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**FY22 Statistical Production Modernization**

1. Are information technology investments adequately implementing incremental development methodology? (Y/N)

**Yes**

2. What is the frequency of incremental development iterations? (ex. 1 month, 3 months, 6 months, 12 months or greater)

**Months**

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

**The iterative development methodology being used is progressive prototyping.**

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**FY20 Statistical Production Modernization**

1. Are information technology investments adequately implementing incremental development methodology? (Y/N)

**Yes**

2. What is the frequency of incremental development iterations? (ex. 1 month, 3 months, 6 months, 12 months or greater)

**Months**

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

**Support ongoing modernization of BEA Estimation production components.**

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