

Exhibit 300: Capital Asset Plan and Business Case Summary**Part I: Summary Information And Justification (All Capital Assets)****Section A: Overview (All Capital Assets)**

1. Date of Submission: 9/15/2008
2. Agency: Environmental Protection Agency
3. Bureau: Office Of Environmental Information
4. Name of this Capital Asset: National Geospatial Program (GEO/GIS)
5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.) 020-00-01-16-01-0120-00
6. What kind of investment will this be in FY 2010? (Please NOTE: Investments moving to O&M in FY 2010, with Planning/Acquisition activities prior to FY 2010 should not select O&M. These investments should indicate their current status.) Mixed Life Cycle
7. What was the first budget year this investment was submitted to OMB? FY2001 or earlier
8. Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap:
- GEO/GIS IT investments facilitate enterprise access to geospatial data and services critical to protecting human health and the environment. GEO/GIS leads the development of geospatial policies, services architecture, interagency partnerships, and acquisition of enterprise licenses, applications and services. It fills gaps in governance, data, technology, and access identified by the Agency, and supports all EPA strategic plan goals by providing improved management and access to geospatial data and services to all EPA offices. These investments make discovery, acquisition, management and delivery of geospatial data and services more efficient - by leveraging emerging and web-based technologies and promoting use of cross-Agency and cross-government solutions - and less-costly - by reducing redundant investments and using enterprise agreements to reduce costs. GEO/GIS is moving EPA from a culture where geospatial tools were ancillary to one where geospatial capabilities are integral to programmatic operations. Current and future activities focus on completing key target components and ensuring that the components are integrated into all EA portfolios. Due to the integrated nature of EPA's IT holdings, all funding for all geo components are included in this investment, but security activities are addressed across several discrete enterprise-level IT investments, including Window to-My-Environment (WME)- which is part of GEO/GIS - the Central Data Exchange (CDX) - whose components include the US Facility Registry System (FRS) tool, the Geospatial Data Gateway (GDG), and the CDX Geolocator tool, and Envirofacts - whose components include the Integrated Geospatial Database (IGD), EnviroMapper tools, and the Locational Reference Table (LRT) Tools, including the FRS Site Locator and the LRT Viewer. GEO/GIS goals also align with the Geospatial Line of Business (LoB). EPA is an active participant in the Geo LoB and will use the LOB's government-wide solutions for more effective delivery of geospatial data and services. GEO/GIS also will invest in the Geo LoB Program Management Office. In addition to the Geo LoB, other partnerships include states, Geospatial One Stop, the Geospatial Profile, FGDC Steering and Coordinating Committees, the FGDC/NSGIC 50 States Initiative, interagency data and service partnerships and data and technology standards groups. Performance measures in Section I.D have been updated to reflect current funding and programmatic priorities.
9. Did the Agency's Executive/Investment Committee approve this request? Yes
- a. If "yes," what was the date of this approval? 8/28/2008
10. Did the Project Manager review this Exhibit? Yes
11. Contact information of Program/Project Manager?
- Name
- Phone Number
- Email
- a. What is the current FAC-P/PM (for civilian agencies) or DAWIA (for defense agencies) certification level of the program/project manager? Waiver Issued
- b. When was the Program/Project Manager Assigned? 10/1/1999
- c. What date did the Program/Project Manager receive the FAC-P/PM certification? If the certification has not been issued, what is the anticipated date for certification? 8/28/2009

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12. Has the agency developed and/or promoted cost effective, energy-efficient and environmentally sustainable techniques or practices for this project? Yes
- a. Will this investment include electronic assets (including computers)? Yes
- b. Is this investment for new construction or major retrofit of a Federal building or facility? (answer applicable to non-IT assets only) No
1. If "yes," is an ESPC or UESC being used to help fund this investment?
2. If "yes," will this investment meet sustainable design principles?
3. If "yes," is it designed to be 30% more energy efficient than relevant code?
13. Does this investment directly support one of the PMA initiatives? Yes
- If "yes," check all that apply: Expanded E-Government
- a. Briefly and specifically describe for each selected how this asset directly supports the identified initiative(s) (e.g. If E-Gov is selected, is it an approved shared service provider or the managing partner?) Supports expanded E-gov by reducing redundancy, increasing access to geospatial assets for EPA, the Federal government (e.g., GDG, watershed boundary database, enterprise-level software, data, and services), and the public (e.g., WME, EnviroMapper, FRS tools) as well as via intergovernmental collaboration and leveraging of shared geospatial governance, standards, data, services, and technologies (e.g., Geo One-Stop, Geo LoB, FGDC, National Environmental Information Exchange Network).
14. Does this investment support a program assessed using the Program Assessment Rating Tool (PART)? (For more information about the PART, visit www.whitehouse.gov/omb/part.) No
- a. If "yes," does this investment address a weakness found during a PART review?
- b. If "yes," what is the name of the PARTed program?
- c. If "yes," what rating did the PART receive?
15. Is this investment for information technology? Yes
- If the answer to Question 15 is "Yes," complete questions 16-23 below. If the answer is "No," do not answer questions 16-23.
- For information technology investments only:
16. What is the level of the IT Project? (per CIO Council PM Guidance) Level 2
17. In addition to the answer in 11(a), what project management qualifications does the Project Manager have? (per CIO Council PM Guidance)
18. Is this investment or any project(s) within this investment identified as "high risk" on the Q4 - FY 2008 agency high risk report (per OMB Memorandum M-05-23) No
19. Is this a financial management system? No
- a. If "yes," does this investment address a FFIA compliance area?
1. If "yes," which compliance area:
2. If "no," what does it address?
- b. If "yes," please identify the system name(s) and system acronym(s) as reported in the most recent financial systems inventory update required by Circular A-11 section 52
20. What is the percentage breakout for the total FY2010 funding request for the following? (This should total 100%)
- | | |
|----------|----|
| Hardware | 8 |
| Software | 25 |
| Services | 3 |

Other 64

21. If this project produces information dissemination products for the public, are these products published to the Internet in conformance with OMB Memorandum 05-04 and included in your agency inventory, schedules and priorities? Yes

22. Contact information of individual responsible for privacy related questions:

Name

Phone Number

Title

E-mail

23. Are the records produced by this investment appropriately scheduled with the National Archives and Records Administration's approval? Yes

Question 24 must be answered by all Investments:

24. Does this investment directly support one of the GAO High Risk Areas? No

Section B: Summary of Spending (All Capital Assets)

1. Provide the total estimated life-cycle cost for this investment by completing the following table. All amounts represent budget authority in millions, and are rounded to three decimal places. Federal personnel costs should be included only in the row designated "Government FTE Cost," and should be excluded from the amounts shown for "Planning," "Full Acquisition," and "Operation/Maintenance." The "TOTAL" estimated annual cost of the investment is the sum of costs for "Planning," "Full Acquisition," and "Operation/Maintenance." For Federal buildings and facilities, life-cycle costs should include long term energy, environmental, decommissioning, and/or restoration costs. The costs associated with the entire life-cycle of the investment should be included in this report.

Table 1: SUMMARY OF SPENDING FOR PROJECT PHASES (REPORTED IN MILLIONS)									
(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)									
	PY-1 and earlier	PY 2008	CY 2009	BY 2010	BY+1 2011	BY+2 2012	BY+3 2013	BY+4 and beyond	Total
Planning:	5.219	0.879	0.986	1.086					
Acquisition:	40.13	2.05	2.05	2.05					
Subtotal Planning & Acquisition:	45.349	2.929	3.036	3.136					
Operations & Maintenance:	64.091	3.195	3.195	3.195					
TOTAL:	109.440	6.124	6.231	6.331					
Government FTE Costs should not be included in the amounts provided above.									
Government FTE Costs	27.183	5.803	6.041	6.289					
Number of FTE represented by Costs:	224	44	44	44					

Note: For the multi-agency investments, this table should include all funding (both managing partner and partner agencies). Government FTE Costs should not be included as part of the TOTAL represented.

2. Will this project require the agency to hire additional FTE's? No

a. If "yes," How many and in what year?

3. If the summary of spending has changed from the FY2009 President's budget request, briefly explain those changes:

Section C: Acquisition/Contract Strategy (All Capital Assets)

1. Complete the table for all (including all non-Federal) contracts and/or task orders currently in place or planned for this investment. Total Value should include all option years for each contract. Contracts and/or task orders completed do not need to be included.

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

Contract or Task Order Number	Type of Contract/ Task Order (In accordance with FAR Part 16)	Has the contract been awarded (Y/N)	If so what is the date of the award? If not, what is the planned award date?	Start date of Contract/ Task Order	End date of Contract/ Task Order	Total Value of Contract/ Task Order (\$M)	Is this an Interagency Acquisition ? (Y/N)	Is it performance based? (Y/N)	Competitively awarded? (Y/N)	What, if any, alternative financing option is being used? (ESPC, UESC, EUL, N/A)	Is EVM in the contract? (Y/N)	Does contract include security/ privacy clause (Y/N)
68-W-00-119 Weston START II Contract, OEI - LRT GPS Template, Milestone 2, Data Management	Cost Plus Fixed Fee	Yes	11/28/2000	3/30/2006	9/30/2008	0.04	No	No	Yes	NA	No	Yes
GS-25F-5086H-4W-3150 OEI and Central Regional Offices portion of ESRI Smart Buy ELA.	Indefinite Delivery/Indefinite Quantity	Yes	3/31/2003	3/31/2003	9/30/2008	0.408	No	No	Yes	NA	No	No
GS-35F-4607G/GSTO 105BK5012 EPA Region 1-Analysis and Computer/software operations, maintenance and support, Milestones 7-10, Regional data, software and hardware management	Time and Materials	Yes	4/1/2005	4/1/2005	12/15/2009	0.434	Yes	Yes	Yes	NA	No	Yes
ITS-EPA Number: GSA Contract Number/GWAC Number GS00T99ALD 0204 WCF Service. EPA Region 4- Computer operations and support, Milestones 7-10, Regional software and hardware management	Government Wide Acquisition Contract (GWAC)	Yes	9/1/2002	9/1/2002	9/30/2009	0.069	Yes	Yes	Yes	NA	No	Yes
MX684780T4 EPA Region 6 - Analysis and computer/software operations, maintenance and support, Milestones 7-10, Regional data, software and hardware management	Interagency Agreement	Yes	10/1/2003	10/1/2003	8/31/2008	0.261	Yes	Yes	Yes	NA	No	Yes
GS-06-F-0451Z EPA Region 7 - Analysis and computer/software	Firm Fixed Price	Yes	6/24/2005	7/1/2005	6/30/2009	0.998	No	Yes	Yes	NA	No	Yes

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operations, maintenance and support, Milestones 7-10, Regional data, software and hardware management .												
R TO # C-2419 EPA Region 9 - Analysis and computer/software operations, maintenance and support, Milestones 7-10, Regional data, software and hardware management .	Time and Materials	Yes	8/1/2005	8/1/2005	9/30/2010	0.691	Yes	Yes	Yes	NA	Yes	Yes
68-W-04-005 TO #14 OEI-WME, EnviroMapper Tools, IGD and Metacarta, Milestones 5 and 6. See Section I.E for WME Operational Security information. EnviroMapper tools and IGD are covered under Envirofacts in the Operational Security Table in Section 1E	Indefinite Delivery Indefinite Quantity	Yes	1/1/2004	8/1/2004	9/30/2008	1.087	No	Yes	Yes	NA	Yes	Yes
68-W-04-005, Task Order #15, OEI - Site Locator tool, LRT structure and data improvement - Milestone 2 Data Management ; LRTs and the Site Locator Tool are covered under Envirofacts in the Operational Security Table in Section I.E	Indefinite Delivery/Indefinite Quantity	Yes	1/8/2004	7/2/2004	9/30/2008	0.25	No	Yes	Yes	NA	Yes	Yes
DW-14-922479-01-0 (EPA#) 7LA6031013	Interagency Agreement	Yes	3/27/2007	3/21/2007	9/30/2008	0.085	Yes	No	No	NA	No	No

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9 (USGS) OEI - Geospatial Line of business E-Government Initiative Contribution, Milestone 6, Inter-agency Partnerships												
EPA IAG DW-8994808101-8 OEI- Watershed Boundary Dataset Partnership, Interns, Milestone 6, Inter-agency Partnerships	Interagency Agreement	Yes	10/1/2004	5/31/2006	12/31/2008	0.292	Yes	No	No	NA	No	No
USGS/ IAG DW-14921676-01 OEI - Watershed Boundary Dataset Partnership, Milestone 6 Inter-agency partnerships.	Interagency Agreement	Yes	6/8/2004	6/8/2004	6/8/2009	0.715	No	No	No	NA	No	No
GS-35F4607G EPA Region 3 - Analysis and computer/software operations, maintenance and support. Milestones 7-10. Regional data, software and hardware management	Level of Effort	Yes	6/5/2007	7/1/2007	9/30/2008	0.835	No	No	Yes	NA	No	Yes
EP07H001275 Digital Globe (formerly GlobeXplorer) Milestone 2, Plan, Develop, Implement and Maintain Enterprise Geospatial Data	Firm-Fixed Price	Yes	4/12/2007	4/16/2007	4/15/2011	0.035	No	Yes	Yes	NA	No	Yes
3843 Emergency Response Geospatial Operations. Milestone 1, Conduct Ongoing National Geospatial Program Management , and Milestone 2, Plan, Develop,	Cost Plus Award Fee	Yes	3/28/2007	3/1/2007	11/30/2008	0.081	No	Yes	No	NA	No	Yes

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Implement and Maintain Enterprise Geospatial Data												
EPO7H00045 XTools Pro. Milestone 2, Plan, Develop, Implement and Maintain Enterprise Geospatial Data	Firm-Fixed Price	Yes	2/1/2007	2/1/2007	2/1/2008	0.002	No	No	No	NA	No	Yes
GS00T99AL D0203 Task Order/TO38 WATP#3837 OEI - GeoData Gateway. Milestones 3, 4, 5.	Cost Plus Award Fee	Yes	2/15/2007	12/1/2006	9/30/2008	0.381	No	Yes	Yes	NA	Yes	Yes
EPW05023 and 4 DO 00019 OEI-CPIC support Milestone 1 and Geo LOB data call support; Milestone 8, inter-agency partnerships	Cost Plus Fixed Fee	Yes	4/15/2005	9/21/2005	4/14/2009	0.349	No	Yes	Yes	NA	Yes	Yes
Heritage Contract, Milestone 2, Plan Develop, Implement and Maintain Enterprise Geospatial Data	Time and Materials	Yes	8/31/2007	9/15/2007	9/30/2012	0.29	No	Yes	Yes	NA	No	Yes
Guidant BPA, Contract #EPO7D0001 02, TO# EP08000348 - EPA Region 4 - Oracle and Oracle tools development for Enviromapper, Milestone 5. EnviroMapper tools and IGD are covered under Envirofacts in the Operational Security Table in Sec. 1E.	Time and Materials	Yes	5/21/2008	5/21/2008	9/30/2009	0.1	No	No	Yes	NA	Yes	Yes
GSA COMMITS GWAC Contract # CM130105CT 0027, INDUS Task Order DW-47-92276301-0. FRS	Time and Materials	Yes	4/28/2008	8/1/2008	9/30/2012	5	Yes	Yes	Yes	NA	Yes	Yes

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Services, including locational improvement work, Milestone 2, Data Management and Milestone 8, Interagency Partnerships.												
EPW05023 and 4 DO 00024 OEI - Geo Profile Support Milestone 8, Interagency Partnerships	Cost Plus Fixed Fee	Yes	4/15/2005	11/18/2005	6/30/2008	0.051	No	Yes	Yes	NA	Yes	Yes
50CMAA90048 OEI - GIO Communications Support, Milestone 1, Program Management	Cost Plus Fixed Fee	Yes	2/7/2000	2/7/2000	9/30/2008	0.157	Yes	No	Yes	NA	No	Yes
GS00T99ALD0203, Task Order/CLINT0002AJM038 WATP #1911 OEI - Business Case for Geospatial Segment Architecture Milestone 1, Program Management	Cost-Reimbursement Incentive	Yes	3/28/2002	3/28/2002	3/28/2009	0.139	No	Yes	Yes	NA	Yes	Yes
GS00T99ALD0203, Task Order/CLINT0002AJM038, WATP #3842 OEI - Wisconsin CDX Pilot and CDX Geospatial Services, Milestone 4, Integrate into EA. US FRS and CDX Geo Locator Tool are covered under CDX in the Operational Security Table in section 1E.	Cost Plus Award Fee	Yes	3/28/2002	10/2/2005	12/31/2008	0.391	No	Yes	Yes	NA	Yes	Yes

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:

NOTES:

1. EVM is not required for this investment given the EPA interpretation of the current A-11 requirements. OMB approved EPA's decision not to use EVM for this investment in March 2004. Operational Analysis is performed in lieu of EVM for this investment.

The majority of costs associated with running the National Geo Program are for operations and maintenance activities, not acquisition or development. Program costs and schedules reflect maintaining a geospatial analytical presence-largely by using government FTEs and onsite contractors-to assist environmental monitoring, forecasting, planning, decisions making and performance measurement. The program is not solely focused on a single IT system or application, but rather, on integrating location-and geospatially-based analytical approaches into EPA business operations and decision-making, through development and use of enterprise-level policies, standards, procedures, and licenses, as well as enterprise IT components.

2. EPA Regions 2, 5, 8 and 10 do not have contracts for geospatial support activities. Efforts in these regions are supported by EPA FTEs and small general expense purchases for supplies and other geo-related items.

3. Due to the inclusion of Working Capital Fund (WCF) costs and non-contract general expense purchases in the investment budget, there isn't a 1-to-1 correlation between the Summary of Spending table totals and the totals in the Contracts Table.

4. None of the tools developed by the Program meet the threshold for a major application as stand-alone systems, and most are embedded as components in larger EPA systems. As such, WME si the only operational tool covered under this investment that has its own security plan. All of the other geospatial tools funded by this investment are covered by the security plan of Envirofacts or CDX. Contracts that support work on geospatial components identified in the Operational Security table in Section I.E are noted in the "Contract or Task Order Number" column of the contracts table. See the Operational Security Table in Section I.E for more information on how security is addressed for the program and its components.

5. A quarterly operational analysis update was completed for the Geospatial Program in May of 2008 and the results were in line with expectations. Minor corrective actions were identified and implemented to ensure continued success in meeting cost, schedule, and performance goals of the program going forward.

3. Do the contracts ensure Section 508 compliance? N/A

a. Explain why not or how this is being done? GEO/GIS uses EPAAR clause 1552.211-79 "COMPLIANCE WITH EPA POLICIES FOR INFORMATION RESOURES MANAGEMENT" in all EPA contracts to ensure contractor 508 compliance. GEO/GIS also utilizes EPA's Electronic Information Technology Procurement Checklist and intranet.epa.gov/accessibility/and tests all software products for 508 compliance prior to release using Federally approved "checkers," including InFocus and InSight-for accessibility-and IBM Homepage reader or JAWS to ensure web pages can be read.

4. Is there an acquisition plan which reflects the requirements of FAR Subpart 7.1 and has been approved in accordance with agency requirements? Yes

a. If "yes," what is the date? 7/17/2008

1. Is it Current?

b. If "no," will an acquisition plan be developed?

1. If "no," briefly explain why:

Section D: Performance Information (All Capital Assets)

In order to successfully address this area of the exhibit 300, performance goals must be provided for the agency and be linked to the annual performance plan. The investment must discuss the agency's mission and strategic goals, and performance measures (indicators) must be provided. These goals need to map to the gap in the agency's strategic goals and objectives this investment is designed to fill. They are the internal and external performance benefits this investment is expected to deliver to the agency (e.g., improve efficiency by 60 percent, increase citizen participation by 300 percent a year to achieve an overall citizen participation rate of 75 percent by FY 2xxx, etc.). The goals must be clearly measurable investment outcomes, and if applicable, investment outputs. They do not include the completion date of the module, milestones, or investment, or general goals, such as, significant, better, improved that do not have a quantitative or qualitative measure.

Agencies must use the following table to report performance goals and measures for the major investment and use the Federal Enterprise Architecture (FEA) Performance Reference Model (PRM). Map all Measurement Indicators to the corresponding "Measurement Area" and "Measurement Grouping" identified in the PRM. There should be at least one Measurement Indicator for each of the four different Measurement Areas (for each fiscal year). The PRM is available at www.egov.gov. The table can be extended to include performance measures for years beyond the next President's Budget.

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results

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Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2006	Cross-Goal Strategies	Customer Results	Service Accessibility	Service Availability	Availability of Federal Geographic Data Committee (FGDC) compliant EPA data/metadata for stakeholder and public use.	94% of Geospatial Data Index (GDI) data sets contributed to National Spatial Data Infrastructure (NSDI) and formatted to meet FGDC requirements	100% of all FGDC compliant data/metadata housed in the public area and search-able through EPA and NSDI Clearin	100 % of metadata made publicly available through EPA s NSDI Clearinghouse node as of September 30, 2006 is FGDC Committee compliant
2006	Cross-Goal Strategies	Customer Results	Service Coverage	New Customers and Market Penetration	Percent increase in new Windows To My Environment (WME) customers in the publicly accessible market	90,082 unique WME users	10% increase over baseline in unique WME users(99,080 users)	2.7% increase in unique WME users to 92,500 as of 9/30/2006. Note: original FY2006 target number of unique WME users was later achieved in 2007.
2006	Cross-Goal Strategies	Customer Results	Service Quality	Accuracy of Service or Product Delivered	Accuracy of latitude/longitude records in Locational Reference Tables (LRT)/Facility Registry System (FRS)	46% of records in LRT/FRS systems with accurate latitude/longitude data as of 9/30/05	10% increase in number of LRT/FRS entries with accurate latitude and longitude values versus the final FY 2005 baseline	14% increase to 60% of LRT/FRS records with accurate latitude/longitude data
2006	Cross-Goal Strategies	Mission and Business Results	Information and Technology Management	Information Management	Capacity of headquarters program offices to perform geospatial analysis on programmatic data	\$1,408,934 in National Geospatial Program enterprise-level holdings (software, hardware, data, help desk, training)	3% increase in National Geospatial Program enterprise-level holdings versus the baseline	17% increase to \$1,648,453 in National Geospatial Program enterprise-level holdings
2006	Cross-Goal Strategies	Processes and Activities	Management and Innovation	Participation	Percentage of regional and program offices that have become Geospatial Data Index (GDG) partners	100% of EPA regional offices and 78% of national program offices were GDG Partners	100% of EPA regional and 80% of all program offices are GDG partners	100% of EPA regional and 90% of all program offices were GDG partners as of 9/30/06
2006	Cross-Goal Strategies	Processes and Activities	Productivity and Efficiency	Efficiency	Percent increase in use of Integrated Geospatial Database (IGD) by EPA applications to leverage existing geospatial data	22 applications using IGD	10% increase (24 applications using IGD)	13.6% increase (25 applications using IGD as of 9/30/06)
2006	Cross-Goal Strategies	Technology	Efficiency	Licensing Costs	Costs associated with procurement and use of geospatial software licenses and data	\$1.84 in planned FY 2006 expenditures for ESRI software and data licenses	25% reduction in the original planned license costs through the use of enterprise-license and data agreements	40% reduction in licensing costs through use of enterprise-license and data agreements versus non-enterprise purchasing approach
2007	Cross-Goal Strategies	Customer Results	Service Coverage	New Customers and Market Penetration	Percent increase in new Windows To My Environment (WME) customers in the publicly accessible market	92,500 unique WME users	3% increase in unique WME users versus the baseline (95,275 users)	14% increase in unique WME users to 105,000 as of 9/30/2007
2007	Cross-Goal Strategies	Customer Results	Service Quality	Accuracy of Service or Product Delivered	Accuracy of the latitude and longitude values contained in Locational Reference Tables (LRT)/Facility	60% of records in LRT/FRS have accurate latitude/longitude records as of 9/30/06	5% increase over final FY 2006 baseline of LRT/FRS records with accurate latitude and longitude values	9% increase to 69% of records in LRT/FRS systems with accurate latitude/longitude values as of

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Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
					Registry System (FRS)			September 30, 2007
2007	Cross-Goal Strategies	Customer Results	Timeliness and Responsiveness	Response Time	Time required to update/refresh Locational Reference Table (LRT) data sets	48 hour average refresh rate	50% reduction in the average refresh rate	65% reduction in the average refresh rate (17 hours)
2007	Cross-Goal Strategies	Customer Results	Timeliness and Responsiveness	Response Time	Time required to create geospatial metadata for use by EPA and other stakeholders and customers	48 hour average time to create new metadata records	50% reduction in the average time to create metadata records	50% reduction in the average time to create metadata records has been achieved as of June 15, 2007
2007	Cross-Goal Strategies	Mission and Business Results	Information and Technology Management	Information Management	Capacity of headquarters program offices to perform geospatial analysis on programmatic data	\$1,648,453 in enterprise-level holdings (software, hardware, data, help desk, training)	5% increase in National Geospatial Program enterprise-level holdings versus the baseline	5% increase to \$1,724,000 in National Geospatial Program enterprise-level holdings as of September 30, 2007.
2007	Cross-Goal Strategies	Mission and Business Results	Information and Technology Management	Information Management	Number of Program Offices that have fully integrated Geospatial enterprise-wide tools, data, and applications into their business process workflows, and are using these enterprise resources in their daily operations and activities	0 Program Offices with Geospatial enterprise-wide tools, data, and applications fully integrated into their business process workflows, and utilizing these enterprise resources in their daily business operations/activities	1 Program Office with Geospatial enterprise-wide tools, data, and applications fully integrated into their business process workflows, and utilizing these enterprise resources in their daily business operations/activities	1 Program Office with Geospatial enterprise-wide tools, data, and applications fully integrated into their business process workflows, and utilizing these enterprise resources in their daily business operations/activities
2007	Cross-Goal Strategies	Processes and Activities	Cycle Time and Timeliness	Cycle Time	Time required to correct reported errors/inaccuracies in geospatial data received via the Integrated Error Correction Process	28 days to correct reported errors/inaccuracies in geospatial data received via the Integrated Error Correction Process	10% reduction over the final FY 2006 baseline in the average amount of time required to correct errors	25 days to correct reported errors/inaccuracies as of September 30, 2007
2007	Cross-Goal Strategies	Processes and Activities	Financial (Processes and Activities)	Savings and Cost Avoidance	Costs saved through use of Integrated Geospatial Database (IGD) versus creating and/or maintaining separate geospatial databases	\$151,000 associated with IGD utilizing Telatlas in FY 2007	5% total cost savings per application for integrating with Integrated Geospatial Database (IGD) versus creation and maintenance of a separate geospatial database	22% cost savings
2007	Cross-Goal Strategies	Processes and Activities	Financial (Processes and Activities)	Savings and Cost Avoidance	Costs saved through use of Geospatial Data Index (GDG) data versus creating and/or maintaining new data sets	\$856,800 associated with GDG data use in FY 2007	5% total cost savings over through use of Geospatial Data Index (GDG) data versus creation and maintenance of a new data set	11% cost savings
2007	Cross-Goal Strategies	Technology	Efficiency	Accessibility	Costs associated with procurement and use of geospatial software licenses and data	\$2.035 million in planned expenditures for ESRI software and data licenses	5% reduction in license costs over the original planned amount through the use of enterprise license and data agreements	43% reduction in license costs through use of enterprise license agreements (\$865,000 in savings)
2008	Cross-Goal Strategies	Customer Results	Service Coverage	New Customers and Market Penetration	Percent increase in new Windows To My Environment (WME) customers in the	For FY2007 there were 105,000 users of WME	5% increase over the final FY 2007 baseline in the number of customers reached via WME	As of March 31, 2008, there are 42,000 unique users of WME. Final FY 2008 actual results

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
					publicly accessible market		(110,250 users)	not available until November 2008.
2008	Cross-Goal Strategies	Customer Results	Service Quality	Accuracy of Service or Product Delivered	Accuracy of the latitude and longitude values contained in Locational Reference Table (LRT)/Facility Registry System (FRS)	69% of LRT/FRS records with accurate latitude and longitude values as of 9/30/07	5% increase over final FY 2007 baseline of LRT/FRS records with accurate latitude and longitude values	6% increase to 75% of LRT/FRS records with accurate latitude and longitude values as of August 6, 2008 actual results not available until November 2008.
2008	Cross-Goal Strategies	Customer Results	Timeliness and Responsiveness	Response Time	Time required to create geospatial metadata for use by EPA and other stakeholders and customers	24 hour average time to create new metadata records	50% reduction in the average time to create metadata records versus the FY 2007 baseline	50% reduction in the average time to create metadata records has been achieved as of March 31, 2008
2008	Cross-Goal Strategies	Mission and Business Results	Information and Technology Management	Information Management	Number of Program Offices that have fully integrated Geospatial enterprise-wide tools, data, and applications into their business process workflows, and are using these enterprise resources in their daily operations and activities	1 Program Office with Geospatial enterprise-wide tools, data, and applications fully integrated into their business process workflows, and utilizing these enterprise resources in their daily business operations/activities	2 Program Office with Geospatial enterprise-wide tools, data, and applications fully integrated into their business process workflows, and utilizing these enterprise resources in their daily business operations/activities	2 Program Office with Geospatial enterprise-wide tools, data, and applications fully integrated into their business process workflows, and utilizing these enterprise resources in their daily business operations/activities
2008	Cross-Goal Strategies	Mission and Business Results	Information and Technology Management	Information Management	Capacity of headquarters program offices to perform geospatial analysis on programmatic data	\$1,724,000 in National Geospatial Program enterprise-level holdings	5% increase in National Geospatial Program enterprise-level holdings versus the baseline	5% increase to \$1,804,000 in National Geospatial program enterprise-level holdings as of June 19, 2008
2008	Cross-Goal Strategies	Processes and Activities	Cycle Time and Timeliness	Cycle Time	Time required to correct reported errors/inaccuracies in geospatial data received via the Integrated Error Correction Process	25 days to correct reported errors/inaccuracies in geospatial data received via the Integrated Error Correction Process	50% reduction over the final FY 2007 baseline in the average amount of time required to correct errors	66% reduction in time required to correct reported errors/inaccuracies in geospatial data received via the IEC process
2008	Cross-Goal Strategies	Processes and Activities	Financial (Processes and Activities)	Savings and Cost Avoidance	Costs saved through use of Integrated Geospatial Database (IGD) versus creating and/or maintaining separate geospatial databases	\$151,000 associated with integrating IGD with other applications	5% total cost savings per application for integrating with IGD versus creation and maintenance of a separate geospatial database	Actual results not yet available - to be determined by August 2008
2008	Cross-Goal Strategies	Processes and Activities	Financial (Processes and Activities)	Savings and Cost Avoidance	Costs saved through use of Geospatial Data Index (GDG) data versus creating and/or maintaining new data sets	\$766,400 associated with GDG data use in FY2008	5% total cost savings over through use of GDG data versus creation and maintenance of a new data set	Actual cost savings will be available August 2008
2008	Cross-Goal Strategies	Technology	Technology Costs	Licensing Costs	Costs associated with procurement and use of geospatial software licenses and data	\$2.8 million in planned expenditures for enterprise software and data licenses	5% reduction in license costs over the original planned amount through the use of enterprise license and data agreements	48% reduction in license agreements (\$1.345 million in savings)
2009	Cross-Goal Strategies	Customer Results	Service Coverage	New Customers and Market	Percent increase in new Windows	TBD based on FY2008	2% increase over the final FY	

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
				Penetration	To My Environment (WME) customers in the publicly accessible market	customer numbers	2008 baseline in the number of customers reached via WME	
2009	Cross-Goal Strategies	Customer Results	Service Quality	Accuracy of Service or Product Delivered	Accuracy of the latitude and longitude values contained in Locational Reference Tables (LRT)/Facility Registry System (FRS)	TBD based on FY 2008 final baseline for LRT/FRS record accuracy	2% increase over final FY 2008 baseline of LRT/FRS records with accurate latitude and longitude values	
2009	Cross-Goal Strategies	Customer Results	Timeliness and Responsiveness	Response Time	Time required to create geospatial metadata for use by EPA and other stakeholders and customers	To be determined based on FY 2008 final baseline	25% reduction in the average time to create metadata records versus the FY 2008 baseline	
2009	Cross-Goal Strategies	Mission and Business Results	Information and Technology Management	Information Management	Number of Program Offices that have fully integrated Geospatial enterprise-wide tools, data, and applications into their business process workflows, and are using these enterprise resources in their daily operations and activities	TBD based on final FY 2008 baseline	Increase of 1 Program Office with Geospatial enterprise-wide tools, data, and applications fully integrated into their business process workflows, and utilizing these enterprise resources in their daily business operations/activities versus FY 2008	
2009	Cross-Goal Strategies	Mission and Business Results	Information and Technology Management	Information Management	Capacity of headquarters program offices to perform geospatial analysis on programmatic data	TBD based on final FY 2008 enterprise-level holdings	2% increase in National Geospatial Program enterprise-level holdings versus the baseline	
2009	Cross-Goal Strategies	Processes and Activities	Cycle Time and Timeliness	Cycle Time	Time required to correct reported errors/ inaccuracies in geospatial data received via the Integrated Error Correction Process	Average time to correct errors to be determined after FY 2008	Maintain final FY 2008 baseline for the average amount of time required to correct errors	
2009	Cross-Goal Strategies	Processes and Activities	Financial (Processes and Activities)	Savings and Cost Avoidance	Costs saved through use of Integrated Geospatial Database (IGD) versus creating and/or maintaining separate geospatial databases	Baseline costs associated with integrating IGD with an application will be established after FY 2008	2% total cost savings per application for integrating with IGD versus creation and maintenance of a separate geospatial database	
2009	Cross-Goal Strategies	Technology	Technology Costs	Licensing Costs	Costs associated with procurement and use of geospatial software licenses and data	To be determined before start of FY2009	20% reduction in license costs over the original planned amount through the use of enterprise license and data agreements	
2010	Cross-Goal Strategies	Customer Results	Service Coverage	New Customers and Market Penetration	Percent increase in new Windows to My Environment (WME) customers in the publicly	TBD based on FY2009 customer numbers	2% increase over the final FY2009 baseline in the number of customers reached via WME	

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
					accessible market			
2010	Cross-Goal Strategies	Customer Results	Service Quality	Accuracy of Service or Product Delivered	Accuracy of the latitude and longitude values contained in Locational Reference Tables (LRT)/Facility Registry System (FRS)	TBD based on FY2009 final baseline for LRT/FRS record accuracy	2% increase over final FY2009 baseline of LRT/FRS records with accurate latitude and longitude values	
2010	Cross-Goal Strategies	Customer Results	Timeliness and Responsiveness	Response Time	Time required to create geospatial metadata for use by EPA and other stakeholder and customers	TBD based on FY2009 final baseline	25% reduction in the average time to create metadata records versus the FY2009 baseline	
2010	Cross-Goal Strategies	Mission and Business Results	Information and Technology Management	Information Management	Number of program offices that have fully integrated geospatial enterprise-wide tools, data and applications into their business process workflows, and are using these enterprise resources in their daily operations and activities	TBD based on final FY2009 baseline	increase of 1 program office with geospatial enterprise-wide tools, data and applications fully integrated into their business process workflows and utilizing these enterprise resources in their daily business operations/activities versus FY2009	
2010	Cross-Goal Strategies	Mission and Business Results	Information and Technology Management	Information Management	Capacity of headquarters program offices to perform geospatial analysis on programmatic data	TBD based on final FY2009 enterprise-level holdings	2% increase in National Geospatial program enterprise-level holdings versus the baseline	
2010	Cross-Goal Strategies	Processes and Activities	Cycle Time and Timeliness	Cycle Time	Time required to correct reported errors/inaccuracies in geospatial data received via Integrated Error Correction Process	Average time to correct errors to be determined after FY2009	Maintain final FY2009 baseline for the average amount of time required to correct errors	
2010	Cross-Goal Strategies	Processes and Activities	Financial (Processes and Activities)	Savings and Cost Avoidance	Costs saved through use of Integrated Geospatial Database (IGD) versus creating and/or maintaining separate geospatial databases	Baseline costs associated with integrating IGD with an application will be established after FY2009	2% total cost savings per application for integrating with IGD versus creation and maintenance of a separate geospatial database	
2010	Cross-Goal Strategies	Technology	Technology Costs	Licensing Costs	Costs associated with procurement and use of geospatial software licenses and data	TBD before start of FY2010	20% reduction in license costs over the original planned amount through the use of enterprise license and data agreements	

Section E: Security and Privacy (IT Capital Assets only)

In order to successfully address this area of the business case, each question below must be answered at the system/application level, not at a program or agency level. Systems supporting this investment on the planning and operational systems security tables should match the systems on the privacy table below. Systems on the Operational Security Table must be included on your agency FISMA system inventory and should be easily referenced in the inventory (i.e., should use the same name or identifier).

For existing Mixed-Life Cycle investments where enhancement, development, and/or modernization is planned, include the

investment in both the "Systems in Planning" table (Table 3) and the "Operational Systems" table (Table 4). Systems which are already operational, but have enhancement, development, and/or modernization activity, should be included in both Table 3 and Table 4. Table 3 should reflect the planned date for the system changes to be complete and operational, and the planned date for the associated C&A update. Table 4 should reflect the current status of the requirements listed. In this context, information contained within Table 3 should characterize what updates to testing and documentation will occur before implementing the enhancements; and Table 4 should characterize the current state of the materials associated with the existing system.

All systems listed in the two security tables should be identified in the privacy table. The list of systems in the "Name of System" column of the privacy table (Table 8) should match the systems listed in columns titled "Name of System" in the security tables (Tables 3 and 4). For the Privacy table, it is possible that there may not be a one-to-one ratio between the list of systems and the related privacy documents. For example, one PIA could cover multiple systems. If this is the case, a working link to the PIA may be listed in column (d) of the privacy table more than once (for each system covered by the PIA).

The questions asking whether there is a PIA which covers the system and whether a SORN is required for the system are discrete from the narrative fields. The narrative column provides an opportunity for free text explanation why a working link is not provided. For example, a SORN may be required for the system, but the system is not yet operational. In this circumstance, answer "yes" for column (e) and in the narrative in column (f), explain that because the system is not operational the SORN is not yet required to be published.

Please respond to the questions below and verify the system owner took the following actions:

1. Have the IT security costs for the system(s) been identified and integrated into the overall costs of the investment? Yes
 a. If "yes," provide the "Percentage IT Security" for the budget year: 2
2. Is identifying and assessing security and privacy risks a part of the overall risk management effort for each system supporting or part of this investment? Yes

3. Systems in Planning and Undergoing Enhancement(s), Development, and/or Modernization - Security Table(s):			
Name of System	Agency/ or Contractor Operated System?	Planned Operational Date	Date of Planned C&A update (for existing mixed life cycle systems) or Planned Completion Date (for new systems)
Central Data Exchange (CDX) whose security plan covers the US FRS Tool, GDG, and CDX Geolocator Tool, all components of GEO/GIS.	Contractor and Government	2/3/2010	2/2/2010
Envirofacts whose Security plan covers the Integrated Geospatial Database (IGD), the entire EnviroMapper Suite of tools, and the suite of Locational reference Tables (LRT) related tools (FRS Site Locator and LRT Viewer) which are components of GEO/GIS.	Contractor and Government	7/27/2009	6/26/2009
Window To My Environment (WME) whose security plan covers the MetaCarta application; both are components of GEO/GIS.	Contractor and Government	6/23/2009	5/22/2009

4. Operational Systems - Security Table:							
Name of System	Agency/ or Contractor Operated System?	NIST FIPS 199 Risk Impact level (High, Moderate, Low)	Has C&A been Completed, using NIST 800-37? (Y/N)	Date Completed: C&A	What standards were used for the Security Controls tests? (FIPS 200/NIST 800-53, Other, N/A)	Date Completed: Security Control Testing	Date the contingency plan tested
Central Data Exchange (CDX) - security plan covers the US FRS Tool, GDG, and CDX Geolocator Tool, all components of GEO/GIS	Contractor and Government	Moderate	yes	2/2/2007	FIPS 200 / NIST 800-53	7/3/2008	2/23/2008
Envirofacts - security plan covers the Integrated Geospatial Database (IGD), the entire EnviroMapper Suite of tools and the suite of Locational Reference Tables (LRT) related Tools (FRS Site Locator	Contractor and Government	Low	yes	7/27/2006	FIPS 200 / NIST 800-53	6/30/2008	7/17/2008

4. Operational Systems - Security Table:							
Name of System	Agency/ or Contractor Operated System?	NIST FIPS 199 Risk Impact level (High, Moderate, Low)	Has C&A been Completed, using NIST 800-37? (Y/N)	Date Completed: C&A	What standards were used for the Security Controls tests? (FIPS 200/NIST 800-53, Other, N/A)	Date Completed: Security Control Testing	Date the contingency plan tested
and LRT Viewer), which are components of GEO/GIS							
Window To My Environment (WME) - security plan covers the MetaCarta application; both are components of GEO/GIS	Contractor and Government	Low	yes	6/23/2006	FIPS 200 / NIST 800-53	6/30/2008	7/17/2008

5. Have any weaknesses, not yet remediated, related to any of the systems part of or supporting this investment been identified by the agency or IG? Yes

a. If "yes," have those weaknesses been incorporated into the agency's plan of action and milestone process? Yes

6. Indicate whether an increase in IT security funding is requested to remediate IT security weaknesses? No

a. If "yes," specify the amount, provide a general description of the weakness, and explain how the funding request will remediate the weakness.

7. How are contractor security procedures monitored, verified, and validated by the agency for the contractor systems above?

8. Planning & Operational Systems - Privacy Table:					
(a) Name of System	(b) Is this a new system? (Y/N)	(c) Is there at least one Privacy Impact Assessment (PIA) which covers this system? (Y/N)	(d) Internet Link or Explanation	(e) Is a System of Records Notice (SORN) required for this system? (Y/N)	(f) Internet Link or Explanation
Central Data Exchange (CDX) whose security plan covers the US FRS Tool, GDG, and CDX Geolocator Tool, all components of GEO/GIS	No	Yes	http://www.epa.gov/privacy/assess/cdx.htm	Yes	http://www.epa.gov/privacy/notice/epa-52.htm
Envirofacts whose security plan covers the Integrated Geospatial Database (IGD), the entire EnviroMapper suite of tools, and the suite of Locational Reference Table (LRT) related tools (FRS Site Locator and LRT Viewer) which are components of GEO/GIS	No	Yes	This system does not collect personally identifiable information on members of the public. Therefore, no PIA is required to be posted.	No	This system is not a Privacy Act System of Records.
Window To My Environment (WME) whose security plan covers the MetaCarta application; both are components of GEO/GIS	No	Yes	This system does not collect personally identifiable information on members of the public. Therefore, no PIA is required to be posted.	No	This system is not a Privacy Act System of Records.

Details for Text Options:
 Column (d): If yes to (c), provide the link(s) to the publicly posted PIA(s) with which this system is associated. If no to (c), provide an explanation why the PIA has not been publicly posted or why the PIA has not been conducted.
 Column (f): If yes to (e), provide the link(s) to where the current and up to date SORN(s) is published in the federal register. If no to (e), provide an explanation why the SORN has not been published or why there isn't a current and up to date SORN.
 Note: Working links must be provided to specific documents not general privacy websites. Non-working links will be considered as a blank field.

Section F: Enterprise Architecture (EA) (IT Capital Assets only)

In order to successfully address this area of the capital asset plan and business case, the investment must be included in the agency's EA and Capital Planning and Investment Control (CPIC) process and mapped to and supporting the FEA. The business

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

case must demonstrate the relationship between the investment and the business, performance, data, services, application, and technology layers of the agency's EA.

1. Is this investment included in your agency's target enterprise architecture? Yes

a. If "no," please explain why?

2. Is this investment included in the agency's EA Transition Strategy? Yes

a. If "yes," provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment. National Geospatial Program (GEO/GIS).

b. If "no," please explain why?

3. Is this investment identified in a completed and approved segment architecture? Yes

a. If "yes," provide the six digit code corresponding to the agency segment architecture. The segment architecture codes are maintained by the agency Chief Architect. For detailed guidance regarding segment architecture codes, please refer to <http://www.egov.gov>. 250-000

4. Service Component Reference Model (SRM) Table:

Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to <http://www.egov.gov>.

Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
Enterprise Geospatial Services	Consumable and/or reusable geospatial services: vector and raster data; geoprocessing, geocoding, spatial tag and query, analytical services	Back Office Services	Data Management	Data Exchange	Data Exchange	020-00-01-16-01-6005-00	Internal	1
Enterprise Geospatial Data Assets	Managed/augmented spatial data from program offices or regions, commercial vendors (TeleAtlas/Globe Xplorer), and governmental partners	Back Office Services	Data Management	Data Mart	Data Mart	020-00-01-16-02-6003-00	Internal	8
Enterprise Geospatial Data Assets	Managed/augmented spatial data from program offices or regions, commercial vendors (TeleAtlas/Globe Xplorer), and governmental partners	Back Office Services	Data Management	Data Warehouse	Data Warehouse	020-00-01-16-02-6003-00	Internal	8
Enterprise Geospatial Services	Consumable and/or reusable geospatial services: vector and raster data; geoprocessing, geocoding, spatial tag and query, analytical services	Back Office Services	Data Management	Extraction and Transformation	Extraction and Transformation	020-00-01-16-02-6029-00	Internal	1
Enterprise Geospatial Services	Consumable and/or reusable geospatial services: vector and raster data; geoprocessing, geocoding, spatial tag and	Back Office Services	Data Management	Loading and Archiving	Loading and Archiving	020-00-01-16-02-6029-00	Internal	1

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4. Service Component Reference Model (SRM) Table:								
Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to http://www.egov.gov .								
Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
	query, analytical services							
Geospatial Gateway	Cataloging of geospatial data, services and applications; metadata management and access; UDDI registry; applications cataloging (READ)	Back Office Services	Data Management	Meta Data Management	Meta Data Management	010-00-01-03-01-0120-24	External	2
Enterprise Geospatial Services	Consumable and/or reusable geospatial services: vector and raster data; geoprocessing, geocoding, spatial tag and query, analytical services	Back Office Services	Development and Integration	Data Integration	Data Integration	020-00-01-16-02-6029-00	Internal	1
Public Access and Business Intelligence Tools	Web-based mapping, query, aggregation, reporting and analytical tools with geospatial content; WME, MetaCarta, EnviroMapper	Business Analytical Services	Business Intelligence	Decision Support and Planning	Decision Support and Planning	020-00-01-16-02-6003-00	Internal	8
Enterprise Geospatial Services	Consumable and/or reusable geospatial services: vector and raster data; geoprocessing, geocoding, spatial tag and query, analytical services	Business Analytical Services	Visualization	Imagery			No Reuse	1
Public Access and Business Intelligence Tools	Web-based mapping, query, aggregation, reporting and analytical tools with geospatial content; WME, MetaCarta, EnviroMapper	Business Analytical Services	Visualization	Mapping / Geospatial / Elevation / GPS	Mapping / Geospatial / Elevation / GPS	020-00-01-16-02-6003-00	Internal	8
Enterprise Geospatial Services	Consumable and/or reusable geospatial services: vector and raster data; geoprocessing, geocoding, spatial tag and query, analytical services	Digital Asset Services	Content Management	Tagging and Aggregation	Tagging and Aggregation	020-00-01-16-04-0240-24	Internal	1
Enterprise Geospatial Data Assets	Managed/augmented spatial data from program offices or regions, commercial vendors (TeleAtlas/Globe Xplorer), and governmental partners	Digital Asset Services	Knowledge Management	Categorization			No Reuse	8
Public Access and Business Intelligence Tools, Enterprise Geospatial Services, Geospatial Gateway	PUBLIC ACCESS AND BUSINESS INTELLIGENCE TOOLS: Web-based mapping, query, aggregation, reporting and analytical tools with geospatial	Digital Asset Services	Knowledge Management	Information Mapping / Taxonomy			No Reuse	9

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4. Service Component Reference Model (SRM) Table: Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to http://www.egov.gov .								
Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
	content; WME, MetaCarta, EnviroMapper ENTERPRISE GEOSPATIAL SERVICES: Consumable and/or reusable geospatial services: vector and raster data; geoprocessing, geocoding, spatial tag and query, analytical services GEOSPATIAL GATEWAY: Cataloging of geospatial data, services and applications; metadata management and access; UDDI registry; applications cataloging(READ)							
Public Access and Business Intelligence Tools, Enterprise Geospatial Services, Geospatial Gateway	PUBLIC ACCESS AND BUSINESS INTELLIGENCE TOOLS: Web-based mapping, query, aggregation, reporting and analytical tools with geospatial content; WME, MetaCarta, EnviroMapper ENTERPRISE GEOSPATIAL SERVICES: Consumable and/or reusable geospatial services: vector and raster data; geoprocessing, geocoding, spatial tag and query, analytical services GEOSPATIAL GATEWAY: Cataloging of geospatial data, services and applications; metadata management and access; UDDI registry; applications cataloging(READ)	Digital Asset Services	Knowledge Management	Information Retrieval	Information Retrieval	020-00-01-16-01-6005-00	Internal	9
Public Access and Business Intelligence Tools, Enterprise Geospatial Services, Geospatial Gateway	PUBLIC ACCESS AND BUSINESS INTELLIGENCE TOOLS: Web-based mapping, query, aggregation, reporting and analytical tools with geospatial content; WME, MetaCarta, EnviroMapper ENTERPRISE GEOSPATIAL SERVICES:	Digital Asset Services	Knowledge Management	Information Sharing	Information Sharing	010-00-01-03-01-0120-24	External	9

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4. Service Component Reference Model (SRM) Table: Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to http://www.egov.gov .								
Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
	Consumable and/or reusable geospatial services: vector and raster data; geoprocessing, geocoding, spatial tag and query, analytical services GEOSPATIAL GATEWAY: Cataloging of geospatial data, services and applications; metadata management and access; UDDI registry; applications cataloging(READ)							
Public Access and Business Intelligence Tools, Enterprise Geospatial Services, Geospatial Gateway	PUBLIC ACCESS AND BUSINESS INTELLIGENCE TOOLS: Web-based mapping, query, aggregation, reporting and analytical tools with geospatial content; WME, MetaCarta, EnviroMapper ENTERPRISE GEOSPATIAL SERVICES: Consumable and/or reusable geospatial services: vector and raster data; geoprocessing, geocoding, spatial tag and query, analytical services GEOSPATIAL GATEWAY: Cataloging of geospatial data, services and applications; metadata management and access; UDDI registry; applications cataloging(READ)	Digital Asset Services	Knowledge Management	Knowledge Capture			No Reuse	8
Public Access and Business Intelligence Tools, Enterprise Geospatial Services, Geospatial Gateway	PUBLIC ACCESS AND BUSINESS INTELLIGENCE TOOLS: Web-based mapping, query, aggregation, reporting and analytical tools with geospatial content; WME, MetaCarta, EnviroMapper ENTERPRISE GEOSPATIAL SERVICES: Consumable and/or reusable geospatial services: vector and raster data; geoprocessing,	Digital Asset Services	Knowledge Management	Knowledge Distribution and Delivery			No Reuse	8

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4. Service Component Reference Model (SRM) Table:
 Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to <http://www.egov.gov>.

Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
	geocoding, spatial tag and query, analytical services GEOSPATIAL GATEWAY: Cataloging of geospatial data, services and applications; metadata management and access; UDDI registry; applications cataloging(READ)							
Public Access and Business Intelligence Tools, Enterprise Geospatial Services, Geospatial Gateway	PUBLIC ACCESS AND BUSINESS INTELLIGENCE TOOLS: Web-based mapping, query, aggregation, reporting and analytical tools with geospatial content; WME, MetaCarta, EnviroMapper ENTERPRISE GEOSPATIAL SERVICES: Consumable and/or reusable geospatial services: vector and raster data; geoprocessing, geocoding, spatial tag and query, analytical services GEOSPATIAL GATEWAY: Cataloging of geospatial data, services and applications; metadata management and access; UDDI registry; applications cataloging(READ)	Support Services	Search	Query	Query	010-00-01-03-01-0120-24	External	9

- a. Use existing SRM Components or identify as "NEW". A "NEW" component is one not already identified as a service component in the FEA SRM.
- b. A reused component is one being funded by another investment, but being used by this investment. Rather than answer yes or no, identify the reused service component funded by the other investment and identify the other investment using the Unique Project Identifier (UPI) code from the OMB Ex 300 or Ex 53 submission.
- c. 'Internal' reuse is within an agency. For example, one agency within a department is reusing a service component provided by another agency within the same department. 'External' reuse is one agency within a department reusing a service component provided by another agency in another department. A good example of this is an E-Gov initiative service being reused by multiple organizations across the federal government.
- d. Please provide the percentage of the BY requested funding amount used for each service component listed in the table. If external, provide the percentage of the BY requested funding amount transferred to another agency to pay for the service. The percentages in the column can, but are not required to, add up to 100%.

5. Technical Reference Model (TRM) Table:
 To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.

FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Mapping / Geospatial / Elevation / GPS	Component Framework	Business Logic	Platform Dependent Technologies	

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5. Technical Reference Model (TRM) Table:				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Decision Support and Planning	Component Framework	Business Logic	Platform Dependent Technologies	
Meta Data Management	Component Framework	Business Logic	Platform Dependent Technologies	
Tagging and Aggregation	Component Framework	Business Logic	Platform Dependent Technologies	
Categorization	Component Framework	Business Logic	Platform Dependent Technologies	
Loading and Archiving	Component Framework	Business Logic	Platform Dependent Technologies	
Information Mapping / Taxonomy	Component Framework	Business Logic	Platform Dependent Technologies	
Information Retrieval	Component Framework	Business Logic	Platform Dependent Technologies	
Query	Component Framework	Business Logic	Platform Dependent Technologies	
Data Integration	Component Framework	Business Logic	Platform Dependent Technologies	
Data Exchange	Component Framework	Business Logic	Platform Dependent Technologies	
Information Sharing	Component Framework	Business Logic	Platform Dependent Technologies	
Extraction and Transformation	Component Framework	Business Logic	Platform Dependent Technologies	
Knowledge Capture	Component Framework	Business Logic	Platform Dependent Technologies	
Knowledge Distribution and Delivery	Component Framework	Business Logic	Platform Dependent Technologies	
Data Warehouse	Component Framework	Business Logic	Platform Independent Technologies	
Information Retrieval	Component Framework	Business Logic	Platform Independent Technologies	
Information Sharing	Component Framework	Business Logic	Platform Independent Technologies	
Categorization	Component Framework	Business Logic	Platform Independent Technologies	
Loading and Archiving	Component Framework	Business Logic	Platform Independent Technologies	
Data Exchange	Component Framework	Business Logic	Platform Independent Technologies	
Decision Support and Planning	Component Framework	Business Logic	Platform Independent Technologies	
Data Integration	Component Framework	Business Logic	Platform Independent Technologies	
Query	Component Framework	Business Logic	Platform Independent Technologies	
Mapping / Geospatial / Elevation / GPS	Component Framework	Business Logic	Platform Independent Technologies	
Extraction and Transformation	Component Framework	Business Logic	Platform Independent Technologies	
Meta Data Management	Component Framework	Business Logic	Platform Independent Technologies	
Tagging and Aggregation	Component Framework	Business Logic	Platform Independent Technologies	
Information Mapping / Taxonomy	Component Framework	Business Logic	Platform Independent Technologies	
Data Exchange	Component Framework	Data Interchange	Data Exchange	
Data Mart	Component Framework	Data Interchange	Data Exchange	
Extraction and Transformation	Component Framework	Data Interchange	Data Exchange	
Loading and Archiving	Component Framework	Data Interchange	Data Exchange	
Data Integration	Component Framework	Data Interchange	Data Exchange	
Decision Support and Planning	Component Framework	Data Interchange	Data Exchange	
Mapping / Geospatial / Elevation / GPS	Component Framework	Data Interchange	Data Exchange	
Tagging and Aggregation	Component Framework	Data Interchange	Data Exchange	
Categorization	Component Framework	Data Interchange	Data Exchange	
Information Mapping / Taxonomy	Component Framework	Data Interchange	Data Exchange	

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

5. Technical Reference Model (TRM) Table:				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Information Retrieval	Component Framework	Data Interchange	Data Exchange	
Information Sharing	Component Framework	Data Interchange	Data Exchange	
Query	Component Framework	Data Interchange	Data Exchange	
Information Retrieval	Component Framework	Data Management	Database Connectivity	
Information Sharing	Component Framework	Data Management	Database Connectivity	
Decision Support and Planning	Component Framework	Data Management	Database Connectivity	
Data Exchange	Component Framework	Data Management	Database Connectivity	
Loading and Archiving	Component Framework	Data Management	Database Connectivity	
Extraction and Transformation	Component Framework	Data Management	Database Connectivity	
Meta Data Management	Component Framework	Data Management	Database Connectivity	
Data Integration	Component Framework	Data Management	Database Connectivity	
Mapping / Geospatial / Elevation / GPS	Component Framework	Data Management	Database Connectivity	
Tagging and Aggregation	Component Framework	Data Management	Database Connectivity	
Categorization	Component Framework	Data Management	Database Connectivity	
Information Mapping / Taxonomy	Component Framework	Data Management	Database Connectivity	
Query	Component Framework	Data Management	Database Connectivity	
Data Exchange	Component Framework	Security	Certificates / Digital Signatures	
Knowledge Capture	Component Framework	Security	Certificates / Digital Signatures	
Data Mart	Component Framework	User Presentation / Interface	Content Rendering	
Data Warehouse	Component Framework	User Presentation / Interface	Content Rendering	
Information Retrieval	Component Framework	User Presentation / Interface	Content Rendering	
Information Sharing	Component Framework	User Presentation / Interface	Content Rendering	
Categorization	Component Framework	User Presentation / Interface	Content Rendering	
Loading and Archiving	Component Framework	User Presentation / Interface	Content Rendering	
Data Exchange	Component Framework	User Presentation / Interface	Content Rendering	
Extraction and Transformation	Component Framework	User Presentation / Interface	Content Rendering	
Data Integration	Component Framework	User Presentation / Interface	Content Rendering	
Decision Support and Planning	Component Framework	User Presentation / Interface	Content Rendering	
Mapping / Geospatial / Elevation / GPS	Component Framework	User Presentation / Interface	Content Rendering	
Query	Component Framework	User Presentation / Interface	Content Rendering	
Meta Data Management	Component Framework	User Presentation / Interface	Content Rendering	
Tagging and Aggregation	Component Framework	User Presentation / Interface	Content Rendering	
Information Mapping / Taxonomy	Component Framework	User Presentation / Interface	Content Rendering	
Data Mart	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Data Warehouse	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Categorization	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Loading and Archiving	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Data Exchange	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Data Integration	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Mapping / Geospatial / Elevation / GPS	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Information Retrieval	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Information Sharing	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Decision Support and Planning	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Tagging and Aggregation	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Information Mapping / Taxonomy	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

5. Technical Reference Model (TRM) Table:				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Query	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Extraction and Transformation	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Meta Data Management	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	
Information Sharing	Component Framework	User Presentation / Interface	Static Display	
Knowledge Distribution and Delivery	Component Framework	User Presentation / Interface	Static Display	
Imagery	Component Framework	User Presentation / Interface	Static Display	
Mapping / Geospatial / Elevation / GPS	Component Framework	User Presentation / Interface	Static Display	
Decision Support and Planning	Component Framework	User Presentation / Interface	Static Display	
Extraction and Transformation	Component Framework	User Presentation / Interface	Static Display	
Loading and Archiving	Component Framework	User Presentation / Interface	Static Display	
Meta Data Management	Component Framework	User Presentation / Interface	Static Display	
Data Integration	Component Framework	User Presentation / Interface	Static Display	
Tagging and Aggregation	Component Framework	User Presentation / Interface	Static Display	
Categorization	Component Framework	User Presentation / Interface	Static Display	
Information Mapping / Taxonomy	Component Framework	User Presentation / Interface	Static Display	
Information Retrieval	Component Framework	User Presentation / Interface	Static Display	
Knowledge Capture	Component Framework	User Presentation / Interface	Static Display	
Query	Component Framework	User Presentation / Interface	Static Display	
Data Exchange	Component Framework	User Presentation / Interface	Static Display	
Information Sharing	Service Access and Delivery	Access Channels	Other Electronic Channels	
Information Retrieval	Service Access and Delivery	Access Channels	Other Electronic Channels	
Knowledge Capture	Service Access and Delivery	Access Channels	Other Electronic Channels	
Knowledge Distribution and Delivery	Service Access and Delivery	Access Channels	Other Electronic Channels	
Extraction and Transformation	Service Access and Delivery	Access Channels	Other Electronic Channels	
Mapping / Geospatial / Elevation / GPS	Service Access and Delivery	Access Channels	Other Electronic Channels	
Data Exchange	Service Access and Delivery	Access Channels	Other Electronic Channels	
Data Integration	Service Access and Delivery	Access Channels	Other Electronic Channels	
Loading and Archiving	Service Access and Delivery	Access Channels	Other Electronic Channels	
Meta Data Management	Service Access and Delivery	Access Channels	Other Electronic Channels	
Decision Support and Planning	Service Access and Delivery	Access Channels	Other Electronic Channels	
Tagging and Aggregation	Service Access and Delivery	Access Channels	Other Electronic Channels	
Categorization	Service Access and Delivery	Access Channels	Other Electronic Channels	
Information Mapping / Taxonomy	Service Access and Delivery	Access Channels	Other Electronic Channels	
Query	Service Access and Delivery	Access Channels	Other Electronic Channels	
Extraction and Transformation	Service Access and Delivery	Access Channels	Web Browser	
Information Sharing	Service Access and Delivery	Access Channels	Web Browser	
Categorization	Service Access and Delivery	Access Channels	Web Browser	
Knowledge Capture	Service Access and Delivery	Access Channels	Web Browser	
Knowledge Distribution and Delivery	Service Access and Delivery	Access Channels	Web Browser	
Tagging and Aggregation	Service Access and Delivery	Access Channels	Web Browser	
Mapping / Geospatial / Elevation / GPS	Service Access and Delivery	Access Channels	Web Browser	
Decision Support and Planning	Service Access and Delivery	Access Channels	Web Browser	
Data Exchange	Service Access and Delivery	Access Channels	Web Browser	
Data Integration	Service Access and Delivery	Access Channels	Web Browser	

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

5. Technical Reference Model (TRM) Table:				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Information Retrieval	Service Access and Delivery	Access Channels	Web Browser	
Information Mapping / Taxonomy	Service Access and Delivery	Access Channels	Web Browser	
Query	Service Access and Delivery	Access Channels	Web Browser	
Loading and Archiving	Service Access and Delivery	Access Channels	Web Browser	
Meta Data Management	Service Access and Delivery	Access Channels	Web Browser	
Loading and Archiving	Service Access and Delivery	Access Channels	Wireless / PDA	
Meta Data Management	Service Access and Delivery	Access Channels	Wireless / PDA	
Data Integration	Service Access and Delivery	Access Channels	Wireless / PDA	
Decision Support and Planning	Service Access and Delivery	Access Channels	Wireless / PDA	
Mapping / Geospatial / Elevation / GPS	Service Access and Delivery	Access Channels	Wireless / PDA	
Categorization	Service Access and Delivery	Access Channels	Wireless / PDA	
Information Retrieval	Service Access and Delivery	Access Channels	Wireless / PDA	
Information Sharing	Service Access and Delivery	Access Channels	Wireless / PDA	
Data Exchange	Service Access and Delivery	Access Channels	Wireless / PDA	
Knowledge Capture	Service Access and Delivery	Access Channels	Wireless / PDA	
Knowledge Distribution and Delivery	Service Access and Delivery	Access Channels	Wireless / PDA	
Query	Service Access and Delivery	Access Channels	Wireless / PDA	
Tagging and Aggregation	Service Access and Delivery	Access Channels	Wireless / PDA	
Information Mapping / Taxonomy	Service Access and Delivery	Access Channels	Wireless / PDA	
Information Retrieval	Service Access and Delivery	Delivery Channels	Internet	
Information Sharing	Service Access and Delivery	Delivery Channels	Internet	
Knowledge Capture	Service Access and Delivery	Delivery Channels	Internet	
Knowledge Distribution and Delivery	Service Access and Delivery	Delivery Channels	Internet	
Decision Support and Planning	Service Access and Delivery	Delivery Channels	Internet	
Data Exchange	Service Access and Delivery	Delivery Channels	Internet	
Data Integration	Service Access and Delivery	Delivery Channels	Internet	
Query	Service Access and Delivery	Delivery Channels	Internet	
Extraction and Transformation	Service Access and Delivery	Delivery Channels	Internet	
Loading and Archiving	Service Access and Delivery	Delivery Channels	Internet	
Meta Data Management	Service Access and Delivery	Delivery Channels	Internet	
Mapping / Geospatial / Elevation / GPS	Service Access and Delivery	Delivery Channels	Internet	
Tagging and Aggregation	Service Access and Delivery	Delivery Channels	Internet	
Categorization	Service Access and Delivery	Delivery Channels	Internet	
Information Mapping / Taxonomy	Service Access and Delivery	Delivery Channels	Internet	
Information Retrieval	Service Access and Delivery	Delivery Channels	Intranet	
Information Sharing	Service Access and Delivery	Delivery Channels	Intranet	
Knowledge Capture	Service Access and Delivery	Delivery Channels	Intranet	
Knowledge Distribution and Delivery	Service Access and Delivery	Delivery Channels	Intranet	
Decision Support and Planning	Service Access and Delivery	Delivery Channels	Intranet	
Data Exchange	Service Access and Delivery	Delivery Channels	Intranet	
Data Integration	Service Access and Delivery	Delivery Channels	Intranet	
Query	Service Access and Delivery	Delivery Channels	Intranet	
Extraction and Transformation	Service Access and Delivery	Delivery Channels	Intranet	
Loading and Archiving	Service Access and Delivery	Delivery Channels	Intranet	

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

5. Technical Reference Model (TRM) Table:				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Meta Data Management	Service Access and Delivery	Delivery Channels	Intranet	
Mapping / Geospatial / Elevation / GPS	Service Access and Delivery	Delivery Channels	Intranet	
Tagging and Aggregation	Service Access and Delivery	Delivery Channels	Intranet	
Categorization	Service Access and Delivery	Delivery Channels	Intranet	
Information Mapping / Taxonomy	Service Access and Delivery	Delivery Channels	Intranet	
Data Exchange	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Data Mart	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Data Warehouse	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Meta Data Management	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Data Integration	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Decision Support and Planning	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Mapping / Geospatial / Elevation / GPS	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Tagging and Aggregation	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Categorization	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Information Mapping / Taxonomy	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Knowledge Capture	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Knowledge Distribution and Delivery	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Query	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Extraction and Transformation	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Loading and Archiving	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Imagery	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Information Retrieval	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Information Retrieval	Service Access and Delivery	Service Requirements	Authentication / Single Sign-on	
Information Sharing	Service Access and Delivery	Service Requirements	Hosting	
Knowledge Distribution and Delivery	Service Access and Delivery	Service Requirements	Hosting	
Data Exchange	Service Access and Delivery	Service Requirements	Hosting	
Loading and Archiving	Service Access and Delivery	Service Requirements	Hosting	
Data Mart	Service Access and Delivery	Service Requirements	Hosting	
Data Warehouse	Service Access and Delivery	Service Requirements	Hosting	
Extraction and Transformation	Service Access and Delivery	Service Requirements	Hosting	
Meta Data Management	Service Access and Delivery	Service Requirements	Hosting	
Data Integration	Service Access and Delivery	Service Requirements	Hosting	
Decision Support and Planning	Service Access and Delivery	Service Requirements	Hosting	
Imagery	Service Access and Delivery	Service Requirements	Hosting	
Mapping / Geospatial / Elevation / GPS	Service Access and Delivery	Service Requirements	Hosting	
Tagging and Aggregation	Service Access and Delivery	Service Requirements	Hosting	
Categorization	Service Access and Delivery	Service Requirements	Hosting	
Information Mapping / Taxonomy	Service Access and Delivery	Service Requirements	Hosting	
Information Retrieval	Service Access and Delivery	Service Requirements	Hosting	
Knowledge Capture	Service Access and Delivery	Service Requirements	Hosting	
Query	Service Access and Delivery	Service Requirements	Hosting	
Information Retrieval	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Information Sharing	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Knowledge Distribution and Delivery	Service Access and Delivery	Service Requirements	Legislative / Compliance	

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

5. Technical Reference Model (TRM) Table:				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Query	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Data Exchange	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Extraction and Transformation	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Loading and Archiving	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Meta Data Management	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Data Integration	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Decision Support and Planning	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Mapping / Geospatial / Elevation / GPS	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Tagging and Aggregation	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Categorization	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Information Mapping / Taxonomy	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Knowledge Capture	Service Access and Delivery	Service Requirements	Legislative / Compliance	
Information Retrieval	Service Access and Delivery	Service Transport	Service Transport	
Information Sharing	Service Access and Delivery	Service Transport	Service Transport	
Knowledge Capture	Service Access and Delivery	Service Transport	Service Transport	
Knowledge Distribution and Delivery	Service Access and Delivery	Service Transport	Service Transport	
Meta Data Management	Service Access and Delivery	Service Transport	Service Transport	
Loading and Archiving	Service Access and Delivery	Service Transport	Service Transport	
Data Integration	Service Access and Delivery	Service Transport	Service Transport	
Extraction and Transformation	Service Access and Delivery	Service Transport	Service Transport	
Decision Support and Planning	Service Access and Delivery	Service Transport	Service Transport	
Mapping / Geospatial / Elevation / GPS	Service Access and Delivery	Service Transport	Service Transport	
Tagging and Aggregation	Service Access and Delivery	Service Transport	Service Transport	
Categorization	Service Access and Delivery	Service Transport	Service Transport	
Information Mapping / Taxonomy	Service Access and Delivery	Service Transport	Service Transport	
Query	Service Access and Delivery	Service Transport	Service Transport	
Data Exchange	Service Access and Delivery	Service Transport	Service Transport	
Data Exchange	Service Interface and Integration	Integration	Middleware	
Extraction and Transformation	Service Interface and Integration	Integration	Middleware	
Loading and Archiving	Service Interface and Integration	Integration	Middleware	
Data Integration	Service Interface and Integration	Integration	Middleware	
Decision Support and Planning	Service Interface and Integration	Integration	Middleware	
Mapping / Geospatial / Elevation / GPS	Service Interface and Integration	Integration	Middleware	
Categorization	Service Interface and Integration	Integration	Middleware	
Information Mapping / Taxonomy	Service Interface and Integration	Integration	Middleware	
Information Retrieval	Service Interface and Integration	Integration	Middleware	
Information Sharing	Service Interface and Integration	Integration	Middleware	
Query	Service Interface and Integration	Integration	Middleware	
Information Retrieval	Service Interface and Integration	Integration	Middleware	
Information Sharing	Service Interface and Integration	Integration	Middleware	
Categorization	Service Interface and Integration	Integration	Middleware	

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5. Technical Reference Model (TRM) Table:				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Information Mapping / Taxonomy	Service Interface and Integration	Integration	Middleware	
Data Exchange	Service Interface and Integration	Integration	Middleware	
Query	Service Interface and Integration	Integration	Middleware	
Data Warehouse	Service Interface and Integration	Integration	Middleware	
Meta Data Management	Service Interface and Integration	Integration	Middleware	
Data Integration	Service Interface and Integration	Integration	Middleware	
Extraction and Transformation	Service Interface and Integration	Integration	Middleware	
Loading and Archiving	Service Interface and Integration	Integration	Middleware	
Decision Support and Planning	Service Interface and Integration	Integration	Middleware	
Mapping / Geospatial / Elevation / GPS	Service Interface and Integration	Integration	Middleware	
Tagging and Aggregation	Service Interface and Integration	Integration	Middleware	
Information Retrieval	Service Interface and Integration	Interface	Service Description / Interface	
Information Sharing	Service Interface and Integration	Interface	Service Description / Interface	
Data Warehouse	Service Interface and Integration	Interface	Service Description / Interface	
Extraction and Transformation	Service Interface and Integration	Interface	Service Description / Interface	
Loading and Archiving	Service Interface and Integration	Interface	Service Description / Interface	
Mapping / Geospatial / Elevation / GPS	Service Interface and Integration	Interface	Service Description / Interface	
Data Exchange	Service Interface and Integration	Interface	Service Description / Interface	
Data Mart	Service Interface and Integration	Interface	Service Description / Interface	
Data Integration	Service Interface and Integration	Interface	Service Description / Interface	
Meta Data Management	Service Interface and Integration	Interface	Service Description / Interface	
Decision Support and Planning	Service Interface and Integration	Interface	Service Description / Interface	
Tagging and Aggregation	Service Interface and Integration	Interface	Service Description / Interface	
Categorization	Service Interface and Integration	Interface	Service Description / Interface	
Information Mapping / Taxonomy	Service Interface and Integration	Interface	Service Description / Interface	
Query	Service Interface and Integration	Interface	Service Description / Interface	
Data Exchange	Service Interface and Integration	Interface	Service Discovery	
Data Mart	Service Interface and Integration	Interface	Service Discovery	
Data Warehouse	Service Interface and Integration	Interface	Service Discovery	
Extraction and Transformation	Service Interface and Integration	Interface	Service Discovery	
Loading and Archiving	Service Interface and Integration	Interface	Service Discovery	
Meta Data Management	Service Interface and Integration	Interface	Service Discovery	
Data Integration	Service Interface and Integration	Interface	Service Discovery	
Decision Support and Planning	Service Interface and Integration	Interface	Service Discovery	
Mapping / Geospatial / Elevation / GPS	Service Interface and Integration	Interface	Service Discovery	
Tagging and Aggregation	Service Interface and Integration	Interface	Service Discovery	

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

5. Technical Reference Model (TRM) Table:				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Categorization	Service Interface and Integration	Interface	Service Discovery	
Information Mapping / Taxonomy	Service Interface and Integration	Interface	Service Discovery	
Information Retrieval	Service Interface and Integration	Interface	Service Discovery	
Information Sharing	Service Interface and Integration	Interface	Service Discovery	
Query	Service Interface and Integration	Interface	Service Discovery	
Meta Data Management	Service Interface and Integration	Interoperability	Data Format / Classification	
Information Retrieval	Service Interface and Integration	Interoperability	Data Format / Classification	
Information Mapping / Taxonomy	Service Interface and Integration	Interoperability	Data Format / Classification	
Information Sharing	Service Interface and Integration	Interoperability	Data Format / Classification	
Categorization	Service Interface and Integration	Interoperability	Data Format / Classification	
Data Mart	Service Interface and Integration	Interoperability	Data Format / Classification	
Data Warehouse	Service Interface and Integration	Interoperability	Data Format / Classification	
Data Exchange	Service Interface and Integration	Interoperability	Data Format / Classification	
Data Integration	Service Interface and Integration	Interoperability	Data Format / Classification	
Loading and Archiving	Service Interface and Integration	Interoperability	Data Format / Classification	
Extraction and Transformation	Service Interface and Integration	Interoperability	Data Format / Classification	
Decision Support and Planning	Service Interface and Integration	Interoperability	Data Format / Classification	
Mapping / Geospatial / Elevation / GPS	Service Interface and Integration	Interoperability	Data Format / Classification	
Tagging and Aggregation	Service Interface and Integration	Interoperability	Data Format / Classification	
Query	Service Interface and Integration	Interoperability	Data Format / Classification	
Information Retrieval	Service Interface and Integration	Interoperability	Data Transformation	
Information Mapping / Taxonomy	Service Interface and Integration	Interoperability	Data Transformation	
Information Sharing	Service Interface and Integration	Interoperability	Data Transformation	
Categorization	Service Interface and Integration	Interoperability	Data Transformation	
Data Warehouse	Service Interface and Integration	Interoperability	Data Transformation	
Data Exchange	Service Interface and Integration	Interoperability	Data Transformation	
Meta Data Management	Service Interface and Integration	Interoperability	Data Transformation	
Extraction and Transformation	Service Interface and Integration	Interoperability	Data Transformation	
Data Integration	Service Interface and Integration	Interoperability	Data Transformation	
Loading and Archiving	Service Interface and Integration	Interoperability	Data Transformation	
Query	Service Interface and Integration	Interoperability	Data Transformation	
Decision Support and Planning	Service Interface and Integration	Interoperability	Data Transformation	
Mapping / Geospatial / Elevation / GPS	Service Interface and Integration	Interoperability	Data Transformation	
Tagging and Aggregation	Service Interface and Integration	Interoperability	Data Transformation	
Information Retrieval	Service Platform and Infrastructure	Database / Storage	Database	
Information Mapping / Taxonomy	Service Platform and Infrastructure	Database / Storage	Database	

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

5. Technical Reference Model (TRM) Table:				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Information Sharing	Service Platform and Infrastructure	Database / Storage	Database	
Knowledge Distribution and Delivery	Service Platform and Infrastructure	Database / Storage	Database	
Data Warehouse	Service Platform and Infrastructure	Database / Storage	Database	
Data Mart	Service Platform and Infrastructure	Database / Storage	Database	
Loading and Archiving	Service Platform and Infrastructure	Database / Storage	Database	
Data Integration	Service Platform and Infrastructure	Database / Storage	Database	
Tagging and Aggregation	Service Platform and Infrastructure	Database / Storage	Database	
Meta Data Management	Service Platform and Infrastructure	Database / Storage	Database	
Query	Service Platform and Infrastructure	Database / Storage	Database	
Information Retrieval	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Information Sharing	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Knowledge Distribution and Delivery	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Data Exchange	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Meta Data Management	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Decision Support and Planning	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Extraction and Transformation	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Loading and Archiving	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Data Integration	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Imagery	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Mapping / Geospatial / Elevation / GPS	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Tagging and Aggregation	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Categorization	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Information Mapping / Taxonomy	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Knowledge Capture	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Query	Service Platform and Infrastructure	Delivery Servers	Application Servers	
Meta Data Management	Service Platform and Infrastructure	Delivery Servers	Portal Servers	
Data Integration	Service Platform and Infrastructure	Delivery Servers	Portal Servers	
Decision Support and Planning	Service Platform and Infrastructure	Delivery Servers	Portal Servers	
Mapping / Geospatial / Elevation / GPS	Service Platform and Infrastructure	Delivery Servers	Portal Servers	
Tagging and Aggregation	Service Platform and Infrastructure	Delivery Servers	Portal Servers	
Categorization	Service Platform and Infrastructure	Delivery Servers	Portal Servers	
Information Mapping / Taxonomy	Service Platform and Infrastructure	Delivery Servers	Portal Servers	
Information Retrieval	Service Platform and Infrastructure	Delivery Servers	Portal Servers	
Information Sharing	Service Platform and Infrastructure	Delivery Servers	Portal Servers	
Knowledge Distribution and Delivery	Service Platform and Infrastructure	Delivery Servers	Portal Servers	
Query	Service Platform and Infrastructure	Delivery Servers	Portal Servers	

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

5. Technical Reference Model (TRM) Table:				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Information Retrieval	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Information Sharing	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Knowledge Distribution and Delivery	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Data Exchange	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Meta Data Management	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Decision Support and Planning	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Extraction and Transformation	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Loading and Archiving	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Data Integration	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Mapping / Geospatial / Elevation / GPS	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Tagging and Aggregation	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Categorization	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Information Mapping / Taxonomy	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Knowledge Capture	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Query	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Imagery	Service Platform and Infrastructure	Delivery Servers	Web Servers	
Information Retrieval	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Information Sharing	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Knowledge Distribution and Delivery	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Data Exchange	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Data Warehouse	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Data Mart	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Extraction and Transformation	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Loading and Archiving	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Data Integration	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Meta Data Management	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Decision Support and Planning	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Imagery	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Mapping / Geospatial / Elevation / GPS	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Tagging and Aggregation	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Categorization	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Information Mapping / Taxonomy	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Knowledge Capture	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Query	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	
Extraction and Transformation	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Loading and Archiving	Service Platform and Infrastructure	Support Platforms	Dependent Platform	

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

5. Technical Reference Model (TRM) Table:				
To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.				
FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Meta Data Management	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Imagery	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Information Mapping / Taxonomy	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Knowledge Capture	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Decision Support and Planning	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Information Retrieval	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Information Sharing	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Knowledge Distribution and Delivery	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Data Exchange	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Data Integration	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Mapping / Geospatial / Elevation / GPS	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Categorization	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Query	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Tagging and Aggregation	Service Platform and Infrastructure	Support Platforms	Dependent Platform	
Information Retrieval	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Information Sharing	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Knowledge Distribution and Delivery	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Data Exchange	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Imagery	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Extraction and Transformation	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Loading and Archiving	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Meta Data Management	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Data Integration	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Decision Support and Planning	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Mapping / Geospatial / Elevation / GPS	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Tagging and Aggregation	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Categorization	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Information Mapping / Taxonomy	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Knowledge Capture	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Query	Service Platform and Infrastructure	Support Platforms	Independent Platform	
Knowledge Capture	Service Platform and Infrastructure	Support Platforms	Wireless / Mobile	

a. Service Components identified in the previous question should be entered in this column. Please enter multiple rows for FEA SRM Components supported by multiple TRM Service Specifications

b. In the Service Specification field, agencies should provide information on the specified technical standard or vendor product mapped to the FEA TRM Service Standard, including model or version numbers, as appropriate.

6. Will the application leverage existing components and/or applications across the Government (i.e., USA.gov, Pay.Gov, etc)? Yes

a. If "yes," please describe.

The EPA National Geospatial Program uses the E-Gov application Geospatial One Stop (GOS) and is working with GOS, at geodata.gov, to determine how to maximize sharing and reuse of software components from each others metadata catalogues. EPA reuses base geospatial layers produced by other agencies extensively. Significant resources are provided to the National Hydrography Dataset (NHD) Watershed Boundary Dataset (WBD) and the National Land Cover Data Set (NLCD) to ensure the availability of reusable Federal enterprise data. Use of the 34 OMB Circular A-16 enterprise data layers will increase as they become available through Geospatial Line of Business (LoB) common solution efforts. Federal geospatial services are used where available e.g., US Geological Survey (USGS) Geographic Names Information System (GNIS) Web Service. Additional government-wide data exchange and analytical services are anticipated from the Geospatial LoB Common Solutions. EPA will use these as they become available.

Exhibit 300: Part II: Planning, Acquisition and Performance Information

Section A: Alternatives Analysis (All Capital Assets)

Part II should be completed only for investments identified as "Planning" or "Full Acquisition," or "Mixed Life-Cycle" investments in response to Question 6 in Part I, Section A above.

In selecting the best capital asset, you should identify and consider at least three viable alternatives, in addition to the current baseline, i.e., the status quo. Use OMB Circular A-94 for all investments and the Clinger Cohen Act of 1996 for IT investments to determine the criteria you should use in your Benefit/Cost Analysis.

1. Did you conduct an alternatives analysis for this project? Yes
 - a. If "yes," provide the date the analysis was completed? 3/21/2008
 - b. If "no," what is the anticipated date this analysis will be completed?
 - c. If no analysis is planned, please briefly explain why:

2. Alternative Analysis Results:				* Costs in millions
Use the results of your alternatives analysis to complete the following table:				
Alternative Analyzed	Description of Alternative	Risk Adjusted Lifecycle Costs estimate	Risk Adjusted Lifecycle Benefits estimate	
1	Selected Alternative. Integrated, services-oriented geospatial system, leveraging commercial off the shelf (COTS) functionalities, and built around EPA s business processes and emergency response needs. Built on a service-oriented architecture with numerous interfaces, a reliance on ESRI catalog, portal toolkit, automated harvest for internal metadata, dynamic discovery for external metadata, reduced data latency and reusable, component-oriented design.	14.897	82.414	
2	COTS technology with basic COTS integration and customization options exercised: A geospatial system that uses out-of-the-box functionality and processes. EPA processes (especially emergency response) would be extensively reengineered to use standard COTS processes. The solution would use default COTS interfaces, ESRI, default metadata harvesting tools, Metaparser and basic visual review to perform validation, and rely on basic COTS search engine.	21.155	51.128	
3	EPA geospatial baseline system with increased emphasis on external providers: Modify existing environment but make minor upgrades to search and discovery interface, create metadata for planned acquisitions, keep separate from Office of Environmental Information (OEI) Portal and other access management efforts, rely on existing catalog environment, allow manual transmission of files to central steward, and use federated model to exchange information with states.	38.043	0	
Status Quo	Includes: No creation of new EPA procedures, standards; No expansion of geospatial assets for Program Office use; Utilizing GDI/EIMS for geospatial asset exchange; No development/use of geospatial community on the EPA portal; Maintenance of current tools and technologies without expansion; Maintaining the current geospatial data architecture for current data only; Maintaining multiple Identity and Access Management Frameworks across applications; Not using Enterprise License Agreements (ELAs).	41.403	0	

3. Which alternative was selected by the Agency's Executive/Investment Committee and why was it chosen?

EPA selected the chosen alternative Alternative 1 because it: 1) supports EPA goals/mandates/strategy; 2) satisfies customer needs/functional requirements; 3) results in the highest return on investment (ROI) - 553% projected ROI - (4) has been in

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

payback since 2003 and continues to produce benefits in excess of costs as estimated in the most recent alternatives analysis update in 2008. 4) produces the least disruption to critical service delivery by mainstreaming geospatial technology into operational IT. None of the other alternatives considered could deliver comparable benefits within the timeframe.

a. What year will the investment breakeven? (Specifically, 2008 when the budgeted costs savings exceed the cumulative costs.)

4. What specific qualitative benefits will be realized?

1). Improved Integration and Partnering with Agencies: The selected alternative allows EPA to partner more effectively with other agencies by creating a secure platform that provides seamless access to appropriate geospatial resources for different parties, utilizing core IT systems and authentication mechanisms. This results in eliminating redundancies, improving data and technology access critical to EPA staff and other partners, and contributing to publicly accessible geospatial data/asset sharing initiatives (e.g., GOS, NSDI).

2). Improved Timeliness: EPA requires up-to-date geospatial data. For example, in emergency response, EPA requires current geospatial information to identify the location of sensitive resources or human populations that may be threatened by a spill or release. The selected alternative provides up-to-date information without substantial modification to EPA processes which support the achievement of EPA's mission by creating an integrated geospatial portal that provides access to geospatial resources that are maintained, documented and shared across the agency. Specific examples of timeliness benefits include: reducing the time it takes to produce metadata, discover relevant information, find specific subject matter of interest through EPA data/asset channels, and identify and access geospatial resources through the existing portal environment.

3). Improved Data Quality and Consistency: EPA requires high-quality, consistent geographic data to make critical decisions. For example, in emergency situations EPA must have a high degree of certainty that a resource or population is threatened. Equally, EPA must be able to search multiple data sets using common terms to identify critical resources and quickly aggregate them into a usable product. By adopting the selected alternative, EPA stakeholders have access to tools that facilitate production of high-quality metadata, gaining assurance that data are consistent, high-quality, and meet EPA's needs.

4). Increased Access: EPA often works in high-stress environments where data access may be problematic (e.g., Hurricane Katrina). The selected alternative provides easy and fast access to specifically designed data access tools through a centralized location that aggregates distributed resources and makes them available with the correct sets of permissions to different types of users. This increases the speed and effectiveness of EPA's response actions.

5. Federal Quantitative Benefits

What specific quantitative benefits will be realized (using current dollars) Use the results of your alternatives analysis to complete the following table:

	Budgeted Cost Savings	Cost Avoidance	Justification for Budgeted Cost Savings	Justification for Budgeted Cost Avoidance
PY - 1 2007 & Prior	4.5	7.8	Allows for a fully-integrated, services-oriented architecture that expands geospatial technology into EPA's mainstream architecture and re-engineers business processes to use tools/technologies across multiple stakeholder groups. Savings are calculated against the baseline which includes duplicate systems that require manual effort to find, access, manage and use geo information.	Allows for a fully-integrated, services-oriented architecture that expands geospatial technology into EPA's mainstream architecture and re-engineers business processes to use tools/technologies across multiple stakeholder groups. Savings are calculated versus the 3 other alternatives (baseline, enhanced baseline, and COTS), which are less streamlined/integrated and don't allow users to find, access, manage and use geo information as well.
PY 2008	3	6.6	In 2008 benefits are realized due to 1. Increased timeliness: Better ability to find, access, manage, and document geospatial information 2. Improved Quality: Better information provided through better tools and improvements in consistency 3. Improved satisfaction: Users more satisfied with streamlined, reliable and integrated system; users also more satisfied due to training and improved understanding.	In 2008 cost are avoided due to 1. Increased timeliness: Better ability to find, access, manage, and document geospatial information 2. Improved Quality: Better information provided through better tools and improvements in consistency 3. Improved satisfaction: Users more satisfied with streamlined, reliable and integrated system; users also more satisfied due to training and improved understanding.
CY 2009	2.9	6.4	In 2009 benefits are realized due to 1. Increased timeliness: Better ability to find, access, manage, and document geospatial information 2. Improved Quality: Better information provided through better tools and improvements in consistency 3. Improved satisfaction: Users more satisfied with streamlined, reliable and	In 2009 costs are avoided due to 1. Increased timeliness: Better ability to find, access, manage, and document geospatial information 2. Improved Quality: Better information provided through better tools and improvements in consistency 3. Improved satisfaction: Users more satisfied with streamlined, reliable and

5. Federal Quantitative Benefits				
What specific quantitative benefits will be realized (using current dollars) Use the results of your alternatives analysis to complete the following table:				
	Budgeted Cost Savings	Cost Avoidance	Justification for Budgeted Cost Savings	Justification for Budgeted Cost Avoidance
			integrated system; users also more satisfied due to training and improved understanding.	integrated system; users also more satisfied due to training and improved understanding.
BY 2010	2.9	6.3	In 2010 benefits are realized due to 1. Increased timeliness: Better ability to find, access, manage, and document geospatial information 2. Improved Quality: Better information provided through better tools and improvements in consistency 3. Improved satisfaction: Users more satisfied with streamlined, reliable and integrated system; users also more satisfied due to training and improved understanding.	In 2010 cost are avoided due to 1. Increased timeliness: Better ability to find, access, manage, and document geospatial information 2. Improved Quality: Better information provided through better tools and improvements in consistency 3. Improved satisfaction: Users more satisfied with streamlined, reliable and integrated system; users also more satisfied due to training and improved understanding.
Total LCC Benefit			LCC = Life-cycle Cost	

6. Will the selected alternative replace a legacy system in-part or in-whole? No

a. If "yes," are the migration costs associated with the migration to the selected alternative included in this investment, the legacy investment, or in a separate migration investment?

b. If "yes," please provide the following information:

5b. List of Legacy Investment or Systems		
Name of the Legacy Investment of Systems	UPI if available	Date of the System Retirement

Section B: Risk Management (All Capital Assets)

You should have performed a risk assessment during the early planning and initial concept phase of this investment's life-cycle, developed a risk-adjusted life-cycle cost estimate and a plan to eliminate, mitigate or manage risk, and be actively managing risk throughout the investment's life-cycle.

- 1. Does the investment have a Risk Management Plan? Yes
 - a. If "yes," what is the date of the plan? 6/2/2008
 - b. Has the Risk Management Plan been significantly changed since last year's submission to OMB? No
- c. If "yes," describe any significant changes:

- 2. If there currently is no plan, will a plan be developed?
 - a. If "yes," what is the planned completion date?
 - b. If "no," what is the strategy for managing the risks?

3. Briefly describe how investment risks are reflected in the life cycle cost estimate and investment schedule:

The cost analysis for this investment took into account numerous potential risks. EPA developed a cost-benefit model that allowed it to vary the number of parameters that contributed to the overall cost of each alternative. Using this model EPA was able to identify the parameters that substantively affected the overall costs of each option. EPA then identified which parameters had the biggest impact on overall cost (e.g., number of processes affected, number of persons using those processes, development and O&M costs). For these parameters, assessed the uncertainty or potential risk of the estimate of the parameter. Risks were assessed using a Monte Carlo simulation method (assuming a normal distribution for parameter values) and through expert judgment (e.g., which elements are more likely to affect costs and how are these elements likely to vary). Based on this analysis, EPA was able to how risks might affect the estimate of the value of a parameter, the degree of uncertainty/risk in each major parameter, and the probability that a parameter might vary over a given range. EPA then used these data to run a series of scenario that corresponded to high-probability/high-impact states and the cumulative impacts of high-probability/low-impact states. EPA and industry experts then reviewed these scenarios and selected the one that best reflected, in their judgment, the range, probability and magnitude of the risk that were likely to occur under each alternative. This scenario is used as the basis for the cost estimates presented in the CBA. Thus, the cost of each alternative included in this business case takes into account the potential cost impact (magnitude and probability) of the major risks that are most likely to occur during the expected life of the investment.

Section C: Cost and Schedule Performance (All Capital Assets)

EVM is required only on DME portions of investments. For mixed lifecycle investments, O&M milestones should still be included in the table (Comparison of Initial Baseline and Current Approved Baseline). This table should accurately reflect the milestones in the initial baseline, as well as milestones in the current baseline.

1. Does the earned value management system meet the criteria in ANSI/EIA Standard-748? Yes

2. Is the CV% or SV% greater than +/- 10%? (CV%= CV/EV x 100; SV%= SV/PV x 100) No

- a. If "yes," was it the CV or SV or both?
- b. If "yes," explain the causes of the variance:
- c. If "yes," describe the corrective actions:

3. Has the investment re-baselined during the past fiscal year? No

a. If "yes," when was it approved by the agency head?

4. Comparison of Initial Baseline and Current Approved Baseline

Complete the following table to compare actual performance against the current performance baseline and to the initial performance baseline. In the Current Baseline section, for all milestones listed, you should provide both the baseline and actual completion dates (e.g., "03/23/2003"/ "04/28/2004") and the baseline and actual total costs (in \$ Millions). In the event that a milestone is not found in both the initial and current baseline, leave the associated cells blank. Note that the 'Description of Milestone' and 'Percent Complete' fields are required. Indicate '0' for any milestone no longer active.

Milestone Number	Description of Milestone	Initial Baseline		Current Baseline				Current Baseline Variance		Percent Complete
		Planned Completion Date (mm/dd/yyyy)	Total Cost (\$M) Estimated	Completion Date (mm/dd/yyyy)		Total Cost (\$M)		Schedule (# days)	Cost (\$M)	
				Planned	Actual	Planned	Actual			
99-03	FY2003 and Earlier Milestones - Total Investment	9/30/2003	\$88.86	9/30/2003	9/30/2003	\$88.86	\$88.86	0	\$0.00	100%
04	FY2004	9/30/2004	\$12.52	9/30/2004	9/30/2004	\$12.52	\$12.52	0	\$0.00	100%
01	Conduct National Geospatial Program Management Activities	9/30/2004	\$0.50	9/30/2004	9/30/2004	\$0.50	\$0.50	0	\$0.00	100%
02	Provide Ongoing Programmatic Communications Support	9/30/2004	\$0.09	9/30/2004	9/30/2004	\$0.09	\$0.09	0	\$0.00	100%
03	Develop and Enhance Geospatial Blueprint Action Plans	9/30/2004	\$0.02	9/30/2004	9/30/2004	\$0.02	\$0.02	0	\$0.00	100%
04	Plan, Develop and Implement Enterprise Geospatial Data and Technology Investments/Acquisitions (also includes development of geospatial data acquisition plans, and development and enhancement of data and technology partnerships)	9/30/2004	\$0.60	9/30/2004	9/30/2004	\$0.60	\$0.60	0	\$0.00	100%
05	Complete Annual Releases of Geospatial Data Index	9/30/2004	\$0.33	9/30/2004	9/30/2004	\$0.33	\$0.33	0	\$0.00	100%
06	Complete Pilot Study to Geo-Enable the Network	9/30/2004	\$0.21	9/30/2004	9/30/2004	\$0.21	\$0.21	0	\$0.00	100%
07	Manage Locational Data Improvement Program (LDIP)	9/30/2004	\$1.14	9/30/2004	9/30/2004	\$1.14	\$1.14	0	\$0.00	100%
08	Build AA-ship and Regional Components as outlined in the Blueprint	9/30/2004	\$0.00	9/30/2004	9/30/2004	\$0.00		0		100%
09	Develop and Enhance Programmatic/Analytical tools	9/30/2004	\$0.28	9/30/2004	9/30/2004	\$0.28	\$0.28	0	\$0.00	100%
10	Complete Annual Releases of "My WME/EnviroMapper"	9/30/2004	\$0.35	9/30/2004	9/30/2004	\$0.35	\$0.35	0	\$0.00	100%
	Complete Annual Updates to	9/30/2004	\$0.24	9/30/2004	9/30/2004	\$0.24	\$0.24	0	\$0.00	100%

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4. Comparison of Initial Baseline and Current Approved Baseline

Complete the following table to compare actual performance against the current performance baseline and to the initial performance baseline. In the Current Baseline section, for all milestones listed, you should provide both the baseline and actual completion dates (e.g., "03/23/2003"/ "04/28/2004") and the baseline and actual total costs (in \$ Millions). In the event that a milestone is not found in both the initial and current baseline, leave the associated cells blank. Note that the 'Description of Milestone' and 'Percent Complete' fields are required. Indicate '0' for any milestone no longer active.

Milestone Number	Description of Milestone	Initial Baseline		Current Baseline				Current Baseline Variance		Percent Complete
		Planned Completion Date (mm/dd/yyyy)	Total Cost (\$M) Estimated	Completion Date (mm/dd/yyyy)		Total Cost (\$M)		Schedule (# days)	Cost (\$M)	
				Planned	Actual	Planned	Actual			
	the Integrated Geospatial Database (IGD)									
12	Implement Analytical Tool to be Used With Imagery	9/30/2004	\$0.09	9/30/2004	9/30/2004	\$0.09	\$0.09	0	\$0.00	100%
13	Build Agency Sensing Capacity Through Training with ORD	9/30/2004	\$0.00	9/30/2004	9/30/2004	\$0.00		0		100%
14	Conduct Regional Geospatial Program Management Operations	9/30/2004	\$1.11	9/30/2004	9/30/2004	\$1.11	\$1.11	0	\$0.00	100%
15	Conduct Regional Geospatial Data Management Operations	9/30/2004	\$2.10	9/30/2004	9/30/2004	\$2.10	\$2.10	0	\$0.00	100%
16	Conduct Regional Geospatial IT Management Operations	9/30/2004	\$1.81	9/30/2004	9/30/2004	\$1.81	\$1.81	0	\$0.00	100%
17	Conduct Regional Geospatial IT Application, Access and Analysis Efforts	9/30/2004	\$3.49	9/30/2004	9/30/2004	\$3.49	\$3.49	0	\$0.00	100%
18	Contribute to Geospatial One Stop e-Gov Initiative	9/30/2004	\$0.16	9/30/2004	9/30/2004	\$0.16	\$0.16	0	\$0.00	100%
05	FY 2005	9/30/2005	\$11.26	9/30/2005	9/30/2005	\$11.26	\$10.66	0	(\$0.04)	94.33%
01	Conduct National Geospatial Program Management Activities	9/30/2004	\$0.53	9/30/2005	9/30/2005	\$0.53	\$0.53	0	\$0.00	100%
02	Provide Ongoing Programmatic Communications Support	9/30/2005	\$0.15	9/30/2005	9/30/2005	\$0.15	\$0.16	0	(\$0.01)	100%
03	Develop and Enhance Geospatial Blueprint Action Plans	9/30/2005	\$0.06	9/30/2005	9/30/2005	\$0.06	\$0.06	0	\$0.00	100%
04	Plan, Develop and Implement Enterprise Geospatial Data and Technology Investments/Acquisitions (also includes development of geospatial data acquisition plans, and development and	9/30/2005	\$0.44	9/30/2005	9/30/2005	\$0.44	\$0.47	0	(\$0.03)	100%

4. Comparison of Initial Baseline and Current Approved Baseline

Complete the following table to compare actual performance against the current performance baseline and to the initial performance baseline. In the Current Baseline section, for all milestones listed, you should provide both the baseline and actual completion dates (e.g., "03/23/2003"/ "04/28/2004") and the baseline and actual total costs (in \$ Millions). In the event that a milestone is not found in both the initial and current baseline, leave the associated cells blank. Note that the 'Description of Milestone' and 'Percent Complete' fields are required. Indicate '0' for any milestone no longer active.

Milestone Number	Description of Milestone	Initial Baseline		Current Baseline				Current Baseline Variance		Percent Complete
		Planned Completion Date (mm/dd/yyyy)	Total Cost (\$M) Estimated	Completion Date (mm/dd/yyyy)		Total Cost (\$M)		Schedule (# days)	Cost (\$M)	
				Planned	Actual	Planned	Actual			
	enhancement of data and technology partnerships)									
05	Complete Annual Releases of Geospatial Data Index	9/30/2005	\$0.28	9/30/2005	9/30/2005	\$0.28	\$0.28	0	\$0.00	100%
06	Manage Locational Data Improvement Program (LDIP)	9/30/2005	\$0.68	9/30/2005	9/30/2005	\$0.68	\$0.65	0	\$0.03	100%
07	Build AA-ship and Regional Components as outlined in the Blueprint	9/30/2005	\$0.00	9/30/2005	9/30/2005	\$0.00		0		100%
08	Complete Annual Releases of "My WME/EnviroMapper"	9/30/2005	\$0.48	9/30/2005	9/30/2005	\$0.48	\$0.48	0	\$0.00	100%
09	Complete Annual Updates to the Integrated Geospatial Database (IGD)	9/30/2005	\$0.19	9/30/2005	9/30/2005	\$0.19	\$0.19	0	\$0.00	100%
10	Implement Analytical Tool to be Used With Imagery	9/30/2005	\$0.04	9/30/2005	9/30/2005	\$0.04	\$0.04	0	\$0.00	100%
11	Build Agency Sensing Capacity Through Training with ORD	9/30/2005	\$0.18	9/30/2005	9/30/2005	\$0.18	\$0.18	0	\$0.00	100%
12	Conduct Regional Geospatial Program Management Operations	9/30/2005	\$1.03	9/30/2005	9/30/2005	\$1.03	\$0.94	0	\$0.00	91%
13	Conduct Regional Geospatial Data Management Operations	9/30/2005	\$1.66	9/30/2005	9/30/2005	\$1.66	\$1.51	0	\$0.00	91%
14	Conduct Regional Geospatial IT Management Operations	9/30/2005	\$1.81	9/30/2005	9/30/2005	\$1.81	\$1.63	0	\$0.00	90%
15	Conduct Regional Geospatial IT Application, Access and Analysis Efforts	9/30/2005	\$3.08	9/30/2005	9/30/2005	\$3.08	\$2.87	0	(\$0.01)	93%
16	Contribute to Geospatial One Stop e-Gov Initiative	9/30/2005	\$0.16	9/30/2005	3/7/2005	\$0.16	\$0.16	207	\$0.00	100%
	Geo-Enable the Network	9/30/2005	\$0.18	9/30/2005	9/30/2005	\$0.18	\$0.20	0	(\$0.02)	100%
17	Develop and Enhance	9/30/2005	\$0.32	9/30/2005	9/30/2005	\$0.32	\$0.32	0	\$0.00	100%

4. Comparison of Initial Baseline and Current Approved Baseline

Complete the following table to compare actual performance against the current performance baseline and to the initial performance baseline. In the Current Baseline section, for all milestones listed, you should provide both the baseline and actual completion dates (e.g., "03/23/2003"/ "04/28/2004") and the baseline and actual total costs (in \$ Millions). In the event that a milestone is not found in both the initial and current baseline, leave the associated cells blank. Note that the 'Description of Milestone' and 'Percent Complete' fields are required. Indicate '0' for any milestone no longer active.

Milestone Number	Description of Milestone	Initial Baseline		Current Baseline				Current Baseline Variance		Percent Complete
		Planned Completion Date (mm/dd/yyyy)	Total Cost (\$M) Estimated	Completion Date (mm/dd/yyyy)		Total Cost (\$M)		Schedule (# days)	Cost (\$M)	
				Planned	Actual	Planned	Actual			
	Programmatic and Analytical Geospatial Tools									
06	FY 2006	9/30/2006	\$11.61	9/30/2006	9/30/2006	\$12.50	\$12.59	0	(\$0.09)	100%
01	Conduct ongoing National Geospatial Program Management	9/30/2006	\$1.10	9/30/2006	9/30/2006	\$0.80	\$0.84	0	(\$0.04)	100%
02	Plan, Develop, Implement and Maintain Enterprise Geospatial Data	9/30/2006	\$0.68	9/30/2006	9/30/2006	\$1.15	\$1.13	0	\$0.02	100%
03	Plan, implement and maintain enterprise catalogues and associated services	9/30/2006	\$0.29	9/30/2006	9/30/2006	\$0.31	\$0.31	0	\$0.00	100%
04	Integrate geospatial components into the Enterprise Architecture	9/30/2006	\$0.63	9/30/2006	9/30/2006	\$0.26	\$0.31	0	(\$0.05)	100%
05	Contribute to Geospatial One Stop e-Gov Initiative	9/30/2006	\$0.15	9/30/2006	9/30/2006	\$0.15	\$0.15	0	\$0.00	100%
06	Perform risk assessment, update existing Security Plan and complete Certification and Accreditation for WME	7/31/2006	\$0.01	7/31/2006	6/23/2006	\$0.01	\$0.01	38	\$0.00	100%
07	Plan, Implement and Maintain Public Access and Business Intelligence Tools	9/30/2006	\$1.03	9/30/2006	9/30/2006	\$1.29	\$1.31	0	(\$0.02)	100%
08	Interagency Partnerships to Support Enterprise Approaches	9/30/2006	\$0.00	9/30/2006	9/30/2006	\$1.43	\$1.46	0	(\$0.03)	100%
09	Conduct Regional Geospatial Program Management	9/30/2006	\$1.07	9/30/2006	9/30/2006	\$1.94	\$1.90	0	\$0.05	100%
10	Conduct Regional Geospatial Data Management	9/30/2006	\$3.26	9/30/2006	9/30/2006	\$2.99	\$2.92	0	\$0.07	100%
11	Conduct Regional Geospatial Hardware Acquisition and Maintenance	9/30/2006	\$1.84	9/30/2006	9/30/2006	\$0.75	\$0.81	0	(\$0.06)	100%

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

4. Comparison of Initial Baseline and Current Approved Baseline

Complete the following table to compare actual performance against the current performance baseline and to the initial performance baseline. In the Current Baseline section, for all milestones listed, you should provide both the baseline and actual completion dates (e.g., "03/23/2003"/ "04/28/2004") and the baseline and actual total costs (in \$ Millions). In the event that a milestone is not found in both the initial and current baseline, leave the associated cells blank. Note that the 'Description of Milestone' and 'Percent Complete' fields are required. Indicate '0' for any milestone no longer active.

Milestone Number	Description of Milestone	Initial Baseline		Current Baseline				Current Baseline Variance		Percent Complete
		Planned Completion Date (mm/dd/yyyy)	Total Cost (\$M) Estimated	Completion Date (mm/dd/yyyy)		Total Cost (\$M)		Schedule (# days)	Cost (\$M)	
				Planned	Actual	Planned	Actual			
12	Conduct Regional Geospatial Software Acquisition and Maintenance	9/30/2006	\$1.57	9/30/2006	9/30/2006	\$1.42	\$1.44	0	(\$0.02)	100%
07	FY 2007	9/30/2007	\$11.76	9/30/2007	9/30/2007	\$11.49	\$11.49	0	\$0.00	100%
01	Conduct ongoing National Geospatial Program Management	9/30/2007	\$1.05	9/30/2007	9/30/2007	\$0.72	\$0.64	0	\$0.08	100%
02	Plan, Develop, Implement and Maintain Enterprise Geospatial Data	9/30/2007	\$0.68	9/30/2007	9/30/2007	\$1.02	\$1.06	0	(\$0.04)	100%
03	Plan, implement and maintain enterprise catalogues and associated services	9/30/2007	\$0.29	9/30/2007	9/30/2007	\$0.31	\$0.33	0	(\$0.03)	100%
04	Integrate geospatial components into the Enterprise Architecture	9/30/2007	\$0.64	9/30/2007	9/30/2007	\$0.27	\$0.39	0	(\$0.12)	100%
05	Plan, Implement and Maintain Public Access and Business Intelligence Tools	9/30/2007	\$1.06	9/30/2007	9/30/2007	\$1.37	\$1.55	0	(\$0.18)	100%
06	Interagency Partnerships to Support Enterprise Approaches	9/30/2007	\$0.15	9/30/2007	9/30/2007	\$0.37	\$0.33	0	\$0.04	100%
07	Conduct Regional Geospatial Program Management	9/30/2007	\$1.11	9/30/2007	9/30/2007	\$2.03	\$1.82	0	\$0.21	100%
08	Conduct Regional Geospatial Data Management	9/30/2007	\$3.32	9/30/2007	9/30/2007	\$3.19	\$3.08	0	\$0.11	100%
09	Conduct Regional Geospatial Hardware Acquisition and Maintenance	9/30/2007	\$1.87	9/30/2007	9/30/2007	\$0.75	\$0.80	0	(\$0.06)	100%
10	Conduct Regional Geospatial Software Acquisition and Maintenance	9/30/2007	\$1.59	9/30/2007	9/30/2007	\$1.46	\$1.48	0	(\$0.02)	100%
08	FY 2008	9/30/2008	\$11.99	9/30/2008		\$11.93	\$7.96		\$0.55	71.27%

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

4. Comparison of Initial Baseline and Current Approved Baseline

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Milestone Number	Description of Milestone	Initial Baseline		Current Baseline				Current Baseline Variance		Percent Complete
		Planned Completion Date (mm/dd/yyyy)	Total Cost (\$M) Estimated	Completion Date (mm/dd/yyyy)		Total Cost (\$M)		Schedule (# days)	Cost (\$M)	
				Planned	Actual	Planned	Actual			
01	Conduct ongoing National Geospatial Program Management	9/30/2008	\$1.07	9/30/2008		\$0.76	\$0.58		\$0.00	76%
02	Plan, Develop, Implement and Maintain Enterprise Geospatial Data	9/30/2008	\$0.69	9/30/2008		\$1.03	\$0.73		\$0.00	71%
03	Plan, implement and maintain enterprise catalogues and associated services	9/30/2008	\$0.30	9/30/2008		\$0.31	\$0.31		(\$0.05)	85%
04	Integrate geospatial components into the Enterprise Architecture	9/30/2008	\$0.66	9/30/2008		\$0.28	\$0.23		\$0.00	83%
05	Plan, Implement and Maintain Public Access and Business Intelligence Tools	9/30/2008	\$1.08	9/30/2008		\$1.58	\$0.55		\$0.64	75%
06	Interagency Partnerships to Support Enterprise Approaches	9/30/2008	\$0.15	9/30/2008		\$0.38	\$0.28		\$0.00	73%
07	Conduct Regional Geospatial Program Management	9/30/2008	\$1.15	9/30/2008		\$2.09	\$1.95		(\$0.28)	80%
08	Conduct Regional Geospatial Data Management	9/30/2008	\$3.39	9/30/2008		\$3.25	\$2.00		(\$0.01)	61%
09	Conduct Regional Geospatial Hardware Acquisition and Maintenance	9/30/2008	\$1.90	9/30/2008		\$0.76	\$0.25		\$0.25	65%
10	Conduct Regional Geospatial Software Acquisition and Maintenance	9/30/2008	\$1.62	9/30/2008		\$1.48	\$1.08		\$0.01	73%
09	FY 2009	9/30/2009	\$12.23	9/30/2009		\$12.27				0%
01	Conduct ongoing National Geospatial Program Management	9/30/2009	\$1.10	9/30/2009		\$0.78				0%
02	Plan, Develop, Implement and Maintain Enterprise Geospatial	9/30/2009	\$0.69	9/30/2009		\$1.04				0%

Exhibit 300: National Geospatial Program (GEO/GIS) (Revision 11)

4. Comparison of Initial Baseline and Current Approved Baseline

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Milestone Number	Description of Milestone	Initial Baseline		Current Baseline				Current Baseline Variance		Percent Complete
		Planned Completion Date (mm/dd/yyyy)	Total Cost (\$M) Estimated	Completion Date (mm/dd/yyyy)		Total Cost (\$M)		Schedule (# days)	Cost (\$M)	
				Planned	Actual	Planned	Actual			
	Data									
03	Plan, implement and maintain enterprise catalogues and associated services	9/30/2009	\$0.30	9/30/2009		\$0.31				0%
04	Integrate geospatial components into the Enterprise Architecture	9/30/2009	\$0.67	9/30/2009		\$0.28				0%
05	Plan, Implement and Maintain Public Access and Business Intelligence Tools	9/30/2009	\$1.10	9/30/2009		\$1.60				0%
06	Interagency Partnerships to Support Enterprise Approaches	9/30/2009	\$0.15	9/30/2009		\$0.50				0%
07	Conduct Regional Geospatial Program Management	9/30/2009	\$1.19	9/30/2009		\$2.15				0%
08	Conduct Regional Geospatial Data Management	9/30/2009	\$3.45	9/30/2009		\$3.31				0%
09	Conduct Regional Geospatial Hardware Acquisition and Maintenance	9/30/2009	\$1.93	9/30/2009		\$0.78				0%
10	Conduct Regional Geospatial Software Acquisition and Maintenance	9/30/2009	\$1.65	9/30/2009		\$1.51				0%
10	FY 2010	9/30/2010	\$12.62	9/30/2010		\$12.62				0%
01	Conduct ongoing National Geospatial Program Management	9/30/2010	\$0.80	9/30/2010		\$0.80				0%
02	Plan, Develop, Implement and Maintain Enterprise Geospatial Data	9/30/2010	\$1.05	9/30/2010		\$1.05				0%
03	Plan, Implement and Maintain enterprise catalogues and associated services	9/30/2010	\$0.32	9/30/2010		\$0.32				0%

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Milestone Number	Description of Milestone	Initial Baseline		Current Baseline				Current Baseline Variance		Percent Complete
		Planned Completion Date (mm/dd/yyyy)	Total Cost (\$M) Estimated	Completion Date (mm/dd/yyyy)		Total Cost (\$M)		Schedule (# days)	Cost (\$M)	
				Planned	Actual	Planned	Actual			
04	Integrate geospatial components into the Enterprise Architecture	9/30/2010	\$0.29	9/30/2010		\$0.29				0%
05	Plan, Implement, and Maintain Public Access and Business Intelligence Tools	9/30/2010	\$1.63	9/30/2010		\$1.63				0%
06	Interagency Partnerships to Support Enterprise Approaches	9/30/2010	\$0.61	9/30/2010		\$0.61				0%
07	Conduct Regional Geospatial Program Management	9/30/2010	\$2.22	9/30/2010		\$2.22				0%
08	Conduct Regional Geospatial Data Management	9/30/2010	\$3.37	9/30/2010		\$3.37				0%
09	Conduct Regional Geospatial Hardware Acquisition and Maintenance	9/30/2010	\$0.80	9/30/2010		\$0.80				0%
10	Conduct Regional Geospatial Software Acquisition and Maintenance	9/30/2010	\$1.54	9/30/2010		\$1.54				0%
Project Totals										