Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Defense Information Systems Agency	Date: February 2015
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*

COST ($ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	93.715	11.031	9.612	10.186	-	10.186	9.720	9.913	9.963	10.052	Continuing	Continuing
E65: *Modeling and Simulation*	66.543	3.774	6.391	6.079	-	6.079	5.672	5.829	5.849	5.901	Continuing	Continuing
T62: *GIG Systems Engineering and Support*	27.172	7.257	3.221	4.107	-	4.107	4.048	4.084	4.114	4.151	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Information Infrastructure Engineering and Integration effort encompasses two projects: Modeling and Simulation and DoD Information Network (DODIN) (formerly Global Information Grid (GIG)) Systems Engineering and Support. There are two major activities under the Modeling and Simulation project: Modeling and Simulation and DODIN Enterprise Wide Systems Engineering (EWSE).

The DODIN EWSE activity resolves near term (one to three years) high-priority technical issues defined by Department of Defense Chief Information Officer (DoD CIO) and Defense Information Systems Agency (DISA), that impact operational capabilities affecting DODIN End-to-End (E2E) interoperability and performance.

The Modeling and Simulation project provides architecture, systems engineering and E2E analytical functions for DISA and its customers, ensuring integrated capabilities to fulfill warfighter mission requirements. Ongoing beneficiaries of these capabilities include DoD CIO, the DISA Network Services Directorate, the DISA Enterprise Services Directorate, Program Executive Office-Mission Assurance, the Defense Information Systems Network Command Center and Joint Communications Simulation System users in DoD.

The DODIN Systems Engineering and Support project defines and validates that the overall technical strategies for DISA are aligned with key DoD Strategic Planning and Execution documents. These documents include the DoD IT Efficiency strategy, DoD CIO’s Campaign Plan, Joint Information Environment (JIE) Roadmap and Concept of Operations, DoD Instructions and Memorandum, other critical high-level guidance documents and target architectures and transition plans. These strategies establish the foundation for technology investments, technical developments, and the operations and sustainment of critical net-centric products and services provided by DISA. The DISA Chief Technology Officer (CTO) conducts technical system engineering reviews and oversight. CTO's early identification of technology needs in coordination with DARPA and will be managed through the DISA Technology Information Repository (DTIR). CTO conducts system engineering oversight, as well as critical technology evaluations and technical maturity assessments.

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Defense Information Systems Agency	Date: February 2015
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*

B. Program Change Summary ($ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	10.831	9.657	8.678	-	8.678
Current President's Budget	11.031	9.612	10.186	-	10.186
Total Adjustments	0.200	-0.045	1.508	-	1.508
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	0.200	-0.045	1.508	-	1.508

Change Summary Explanation

The FY 2014 increase of +$0.200 is attributable to an increase in analysis to better shape and influence transport services related investments.

The FY 2015 decrease of -$0.045 complements analysis efforts which will examine application of commercial 4G wireless technologies in DODIN to include tactical environments.

The FY 2016 increase of +$1.508 will increase the Warfighters' competitive advantage by delivering critical innovative solutions to the Warfighters and evaluate, develop and implement a number of emerging technological innovations. Key technologies, such as the Next Generation of Cloud Services, will be developed and delivered to the Joint Information Environment community, the DoD, Combatant Commanders, and other Government agencies. Additionally, key technology initiatives such as future infrastructure architectures, Cyber Security, Software Defined Networks, Big Data solutions, cloud computing, mobile computing, mobile applications, wireless, social media, and knowledge management systems and services will be implemented.

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Information Systems Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	Project (Number/Name) E65 / *Modeling and Simulation*	

COST ($ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
E65: *Modeling and Simulation*	66.543	3.774	6.391	6.079	-	6.079	5.672	5.829	5.849	5.901	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Modeling and Simulation project provides architecture, systems engineering and end-to-end (E2E) analytical functions for the Defense Information Systems Agency (DISA) and its customers, ensuring integrated capabilities to fulfill warfighter mission requirements. Modeling and Simulation activities support the Department of Defense (DoD) communications planning and investment strategy, including: application performance assessments, contingency planning, network capacity planning and diagnostics, and systems-level modeling and simulation. Project efforts provide across-theater information awareness for Combatant Commands through application solutions for integrated networks, including DoD's missions in Afghanistan and the Defense Information Systems Network (DISN) by: (1) supporting the development and implementation of DoD Information Network (DODIN) Enterprise Wide Systems Engineering (EWSE) processes essential to evolving the DODIN in a manner that enables interoperability and E2E performance for critical DODIN programs; (2) developing standardized DISA systems analyses and integration processes to improve systems integration across DISA for all DISA developed communication systems and services; and (3) providing the underlying modeling and simulation and analytical support for E2E DISA and DoD systems engineering and assessment.

Project efforts provide DoD decision makers with services and a suite of tools capable of identifying key points of impact on DoD command and control information systems and recommending trade-offs within the DODIN configuration with regard to prioritized performance, availability, and security. This effort will reduce the risk in products deployed to the warfighter through improved network performance and traffic analysis, and an efficient means of troubleshooting and subsequent redesign.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
Title: Modeling and Simulation	3.774	6.391	6.079
FY 2014 Accomplishments: Continued EWSE efforts to resolve near term (one to three years) high-priority technical issues impacting end-to-end interoperability and performance of DODIN capabilities in transport, computing services, applications, IA, NetOps and enterprise services. Continued FY 2013 efforts to enhance modeling capabilities to provide DISN IP and Transport Capacity Planning models. These enhancements included: (1) preparing for the FY 2015 Technology Refresh (feasibility tests required prior to hardware being added to the DODIN) and new user requirements; (2) enhanced modeling and instrumentation techniques for Enterprise Services and customer needs in DISA program/project decisions and planning (e.g. Joint Information Environment and Defense Enterprise Computing Centers); (3) DoD Internet traffic models and analyses for capacity planning and IA initiatives for the DISA Director, Cybercom, and Network Services; (4) enhanced modeling tools and techniques to provide inputs to network planning in support			

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Information Systems Agency		Date: February 2015
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** E65 / *Modeling and Simulation*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016

of Unified Communications and E2E security goals of the evolving DISN; and (5) an updated version of the Joint Communications Simulation System.

FY 2015 Plans:

Will continue EWSE efforts to resolve high-priority technical issues impacting E2E capabilities of DODIN in transport, computing services, applications, information assurance (IA), network operations (NetOps) and enterprise services. Will analyze additional cloud computing services that can be integrated or interoperated with DoD capabilities. Will examine application of commercial 4G wireless technologies in DODIN to include tactical environments. The results of analysis and examination will be socialized with the DoD community for action and adoption. Where appropriate, the results will also be documented in GIG Technical Profiles (GTP) for compliance by the Programs of Record (POR).

Will continue efforts to enhance modeling capabilities that will provide DISN IP and Transport Capacity Planning models, modifying tools and processes to reflect the operational DISN architecture and technologies as evolved under Joint Information Environment (JIE) initiatives and technical advances. These enhancements include: (1) preparing for the FY 2016 Technology Refresh (feasibility tests required prior to hardware being added to the DODIN) and new user requirements; (2) enhanced modeling and instrumentation techniques for new or evolving enterprise Services and customer needs in DISA program/project decisions and planning (e.g. JIE and Defense Enterprise Computing Centers); (3) DoD Internet traffic models and analyses for capacity planning and IA initiatives for the DISA Director, CYBERCOM, and Network Services; (4) enhanced modeling tools and techniques to provide inputs to network planning and performance assessments in support of Unified Communications and E2E security goals of the evolving DISN; and (5) an updated version of the Joint Communications Simulation System.

The increase of +$2.617 from FY 2014 to FY 2015 funds efforts to resolve high-priority technical issues impacting the DODIN E2E performance in transport, computing services, applications, IA, NetOps and Enterprise Services. Specific work includes maturation of a system which will encrypt DoD data and allow its storage on commercial cloud technology.

FY 2016 Plans:

Will continue EWSE efforts to resolve high-priority technical issues impacting interoperability of DODIN capabilities in communications, computing services, applications/services, information assurance (IA) and net-centric operations (NetOps). Will analyze/prototype cloud computing services that can be integrated or interoperated with DoD capabilities. Will examine application of Software Defined Networking (SDN) technologies for Core Data Centers and DISN. The results will be socialized with the DoD community for action/adoption or further development. Where appropriate, the results will also be documented in GIG Technical Profiles (GTP) for compliance by the Programs of Record (POR).

Will continue efforts to enhance modeling capabilities that will provide DISN IP and Transport Capacity Planning models, modifying tools and processes to reflect the operational DISN architecture and technologies as evolved under Joint Information

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Information Systems Agency		Date: February 2015
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** E65 / *Modeling and Simulation*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
Environment (JIE) initiatives and technical advances. These enhancements include: (1) preparing for the FY 2016 Technology Refresh (feasibility analyses required prior to hardware being added to the DODIN) and new user requirements; (2) enhanced modeling and instrumentation techniques for new or evolving enterprise Services and customer needs in DISA program/project decisions and planning (e.g. JIE and Defense Enterprise Computing enters); (3) DoD Internet traffic models and analyses for capacity planning and IA initiatives for the DISA Director, CYBERCOM, GIG Operations, Mission Assurance, and Network Services; (4) enhanced modeling tools and techniques to provide inputs to network planning and performance assessments in support of Unified Communications and E2E security goals of the evolving DISN; and (5) an updated version of the Joint Communications Simulation System. The decrease of -$0.312 between FY 2015 and FY 2016 is attributable to reduction in research efforts for Enterprise Wide Systems Engineering; specifically the Service Level Interoperability for Tactical Edge and Core (SLITEC) area.			
Accomplishments/Planned Programs Subtotals	3.774	6.391	6.079

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• PE 0302019K: *Operation & Maintenance, Defense-Wide*	21.328	2.051	2.045	-	2.045	2.336	2.432	2.432	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

EWSE uses contractors to assist/supplement the Government lead/team for technical activities. Subject matter experts in both large and small businesses are sought for the engineering support. Firm fixed price contracts with one option year are typically used in open competition. Furthermore, technical work with Federally Funded Research and Development Centers (FFRDCs) such as MITRE and MIT Lincoln Lab are established and coordinated when the Government can leverage their expertise and R&D in the key technology.

Modeling and Simulation uses a range of contractors for modeling support to the various projects. Contractors range from small to large business, predominantly using open competition methods and Firm Fixed Price (FFP) tasks and utilizing multi-year (base plus option years) contracts where possible. Support includes network modeling tool and processes development to adapt to ever-evolving OSD/DISA programs and projects, analyses, capacity planning, and network redesign using the models. Some specific support (e.g., integration with proprietary software) will require contracting with OPNET (e.g., sole source). FFRDCs are also considered depending upon the task.

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Information Systems Agency		Date: February 2015
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** E65 / *Modeling and Simulation*

E. Performance Metrics

DISN core bandwidth sufficiency, tied to transport and IP capacity planning and activation of bandwidth in the DISN core, to keep at least 25% spare capacity, to allow for provisioning of unforeseen requirements and rerouting under outages. Current status stands at 59.85% capacity, thus maintaining spare capacity in excess of 25%.

The EWSE projects will be measured by the number of systems engineering artifacts and/or DODIN Technical Profiles that are published to support interoperability of DoD programs; and the number of engineering/ technical solutions that are adopted by programs/initiatives across DoD, Combatant Commands (COCOMs), and the Services. These solutions will be coordinated with the stakeholders/users to ensure EWSE has the right solution to the right problem.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Defense Information Systems Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** E65 / *Modeling and Simulation*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2014 Cost	FY 2014 Award Date	FY 2015 Cost	FY 2015 Award Date	FY 2016 Base Cost	FY 2016 Base Award Date	FY 2016 OCO Cost	FY 2016 OCO Award Date	FY 2016 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development 1	SS/FFP	OPNET Tech, Inc. : Bethesda, MD	5.244	0.864	Aug 2014	1.296	Aug 2015	1.600	Aug 2016	-		1.600	Continuing	Continuing	Continuing
Product Development 2	C/CPFF	APPTIS : Chantilly, VA	1.562	0.127	Jan 2014	0.133	Jan 2015	-		-		-	Continuing	Continuing	Continuing
Product Development 3	SS/FFP	Noblis : Falls Church, VA	1.312	-		-		-		-		-	Continuing	Continuing	1.312
Product Development 4	C/FFP	Booz Allen, Hamilton : McLean, VA	2.668	0.542	Jan 2014	0.569	Jan 2015	0.530	Jan 2016	-		0.530	Continuing	Continuing	Continuing
Product Development 5	C/FFP	NRL : Washington, DC	0.100	-		-		-		-		-	Continuing	Continuing	0.100
Product Development 6	C/CPFF	Soliel, LLC : Reston, VA	2.086	0.766	Apr 2014	1.010	Apr 2015	1.025	Aug 2016	-		1.025	Continuing	Continuing	Continuing
Product Development 7	C/FFP	Estrela Tech, LLC : Vienna, VA	2.479	-		0.326	Jul 2015	-		-		-	Continuing	Continuing	Continuing
Product Development 8	C/CPFF	COMPTEL : Arlington, VA	0.926	-		-		0.335	Jul 2016	-		0.335	Continuing	Continuing	1.261
Product Development 9	C/CPFF	MIT Lincoln Labs : Cambridge, MA	5.565	1.475	Dec 2013	2.599	Dec 2014	2.205	Dec 2015	-		2.205	Continuing	Continuing	Continuing
Product Development 10	MIPR	Various : Various	7.011	-		0.458	Jan 2015	0.384	Jan 2016	-		0.384	Continuing	Continuing	Continuing
Enterprise Wide Systems Engineering 11	C/FFP	Northrop Grumman : Fairfax, VA	1.784	-		-		-		-		-	Continuing	Continuing	1.784
Clear Sky Pilot	C/CPFF	AFRL Terremark : TBD	18.500	-		-		-		-		-	Continuing	Continuing	18.500
Narus	C/CPFF	AFRL : Rome, NY	1.450	-		-		-		-		-	Continuing	Continuing	1.450
Cyber Accelerator	C/CPFF	DTIC : Alexandria, VA	7.516	-		-		-		-		-	Continuing	Continuing	7.516
Commercial Integration Demonstration	C/CPFF	DTIC : Alexandria, VA	2.750	-		-		-		-		-	Continuing	Continuing	2.750
Web Content Filtering: Perimeter Defense Integration	C/FFP	Oberon Associates : Ft. Meade, MD	1.854	-		-		-		-		-	Continuing	Continuing	1.854

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Defense Information Systems Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	Project (Number/Name) E65 / *Modeling and Simulation*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2014 Cost	FY 2014 Award Date	FY 2015 Cost	FY 2015 Award Date	FY 2016 Base Cost	FY 2016 Base Award Date	FY 2016 OCO Cost	FY 2016 OCO Award Date	FY 2016 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Host Based Security Ops Assessment	C/FFP	Summit Technologies, Inc : Ft Meade, MD	0.700	-		-		-		-		-	Continuing	Continuing	0.700
Secure Configuration Management Ops Assessment	C/FFP	Cyber Security research and Solutions Corp : Ft Meade, MD	0.964	-		-		-		-		-	Continuing	Continuing	0.964
		Subtotal	64.471	3.774		6.391		6.079		-		6.079	-	-	-

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2014 Cost	FY 2014 Award Date	FY 2015 Cost	FY 2015 Award Date	FY 2016 Base Cost	FY 2016 Base Award Date	FY 2016 OCO Cost	FY 2016 OCO Award Date	FY 2016 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	SS/CPFF	Comptel : Arlington, VA	2.072	-		-		-		-		-	Continuing	Continuing	2.072
		Subtotal	2.072	-		-		-		-		-	-	-	2.072

	Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	66.543	3.774		6.391		6.079		-		6.079	-	-	-

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2016 Defense Information Systems Agency		Date: February 2015
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** E65 / *Modeling and Simulation*

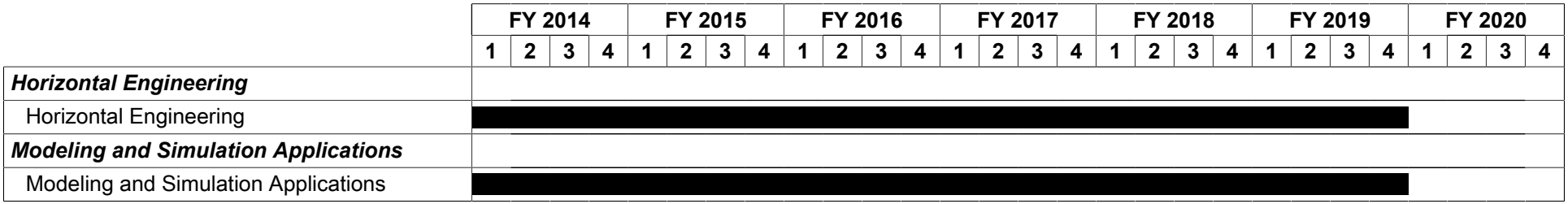

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Defense Information Systems Agency		Date: February 2015
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** E65 / *Modeling and Simulation*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Horizontal Engineering				
Horizontal Engineering	1	2014	4	2019
Modeling and Simulation Applications				
Modeling and Simulation Applications	1	2014	4	2019

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Information Systems Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	Project (Number/Name) T62 / *GIG Systems Engineering and Support*	

COST ($ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
T62: *GIG Systems Engineering and Support*	27.172	7.257	3.221	4.107	-	4.107	4.048	4.084	4.114	4.151	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Chief Technology Officer (CTO) has the responsibility of defining and validating the overall technical strategies for the Defense Information Systems Agency (DISA) in line with the DoD IT Efficiency strategy and Department of Defense Chief Information Officer (DoD CIO) Campaign Plan. These strategies establish the foundation for technology investments, technical development, Cooperative Research and Development Agreements, and the operations and sustainment of critical net-centric products and services provided by DISA. DISA CTO conducts technical system engineering reviews and oversight. CTO's early identification of technology needs will be managed through the Technology Management Framework (TMF), a part of the broader Advanced Technology Identification and Insertion Process (ATIIP). TMF uses as its substrate an institutionalized, directorate partnering construct (i.e. DISA CIO, CTO, Strategic Planning and Information (SPI)), based upon an Enterprise Architecture (EA) methodology.

The CTO supports end to end (E2E) technology evaluations, assessments, process improvements, as well as the analysis and review of potential technology solutions, products, capabilities and services to ensure consistency with DoD Information Network (DODIN) architecture and standards. Our products provide actionable, decision-oriented information to the Secretary of Defense, Joint Staff, Military Services, Combatant Commands, and other mission partners in satisfying DoD mission objectives.

The CTO maintains the Technology Environment, which provides the infrastructure, tools, processes, and techniques to perform various types of assessments and evaluations. These include informal quick looks, technology demonstrations, proof-of-concept events, and technology piloting events, as well as formally orchestrated operational assessments. The Technology Environment is capable of supporting a broad range of topics and issues such as EA, wireless and mobile computing, transport technologies, net-centricity compliance, unified capabilities services, Web 2.0, cloud computing, and social networking.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
Title: Department of Defense Information Network (DODIN) Systems Engineering and Support (formerly Global Information Grid (GIG) Systems Engineering and Support)	7.257	3.221	4.107
FY 2014 Accomplishments: CTO utilized the DISA Technology Information Repository (DTIR) and further expanded its support of the DoD Campaign Plan and the DISA Strategic Plan to identify, demonstrate and assess new technology concepts and compatibilities.			
FY 2015 Plans: To support the transition of applications and services to Core Data Centers for Joint Information Environment (JIE) capabilities, concepts and operations, CTO will develop and mature cloud computing technologies and service delivery models. These technologies include, cyber threat and exploitation vectors and mitigations, full featured Geo-Location Policy Based Mobile Device			

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Information Systems Agency		Date: February 2015
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T62 / *GIG Systems Engineering and Support*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2014	FY 2015	FY 2016
Management and secure mobile multi user/environment technologies, next generation Software Defined Networks, and supporting concept of operations. The decrease of -$4.036 from FY 2014 to FY 2015 is attributable to transitioning of pilots and research and development programs to programs of record and a reduction in DISA's performance of research, assessment, development, proof-of-concepts and pilots, adoption and integration, and transition of emerging and next generation technologies. ***FY 2016 Plans:*** CTO will develop the Technology Environment (TE), composed of the technical infrastructure, associated processes, practices, and methodologies that are used to evaluate and characterize new technologies. Within the TE, CTO will continue to perform technical assessments and proof of concepts for key capability portfolios (Networking, computing & storage, UC, mobility, cyber security, and network operations). Also included are future cloud computing technologies and innovative service delivery models, mobile devises, application development and vetting best practices, and next generation virtualized Software Defined Networks for automating and virtualizing the DoDIN. CTO will continue to partner with commercial partners, academia, technical analysis centers, as well as member organizations within the Intelligence Community, to bring state of the art capabilities to DISA for better communications and monitoring tools, enterprise services and improved end-user services and capabilities. Innovation funds will continue to explore, develop and deliver emerging technologies to the Warfighter. The funding will allow the Department to leverage technology to drive efficiencies and cost saving to DoD, the Warfighter, and other Government Agencies. Technologies including Cloud Services, future infrastructure architectures, Cyber Security, Software Defined Anything, Big Data, cloud computing, mobile computing, mobile applications, wireless will be piloted, mature and developed. The increase of +0.886 from FY 2015 to FY 2016 will increase the Warfighters' competitive advantage by delivering critical innovative solutions to the Warfighters.			
Accomplishments/Planned Programs Subtotals	7.257	3.221	4.107

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• O&M, DW/PE 0302019K: *Operation & Maintenance, Defense-Wide*	6.550	5.052	4.730	-	4.730	4.673	4.890	4.925	5.026	Continuing	Continuing

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Information Systems Agency		Date: February 2015
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T62 / *GIG Systems Engineering and Support*

D. Acquisition Strategy

Market research during the acquisition process includes a review of DISA contracts, other DoD contract vehicles, and other Federal Government agency contracts which are advertised for Government-wide usage. This market research also includes consideration of small businesses including minority/women owned (8A) businesses, Historically Black Colleges and Universities, mentor/protégé and other specialized contract vehicles and processes. Market research evaluates all contractors available from DISA sources for their ability to deliver the products specifically required for the unique program efforts. The program works collaboratively with vendors to obtain generic cost data for planning and analysis purposes. Past and current contract prices for similar work and other government-wide agency contracts provide additional sources of information. Quotes from multiple sources help provide averages for more realistic cost estimates. DISA makes a concerted effort to award many of its contracts to small businesses. Additionally, many of the DISA contracts are awarded with multiple option periods. These have the benefit of fixing labor costs over an extended period and minimizing the administrative costs associated with re-issuing short-term contracts.

E. Performance Metrics

Performance is measured by project milestones and the adoption of these technologies into existing Programs of Record (PORs) or as new program offerings to the DoD and intelligence communities. Metrics that will be used include number and percentage of emerging and mature technologies adopted by DISA and DoD, number and percent of technology research and development initiatives and investments in the DoD, peering organizations and industry partners attributable to technology research. These investments and evolution plans identify, promote, channel and align technology research and investments to reduce time to field emerging technologies to satisfy warfighter requirements. See specific metrics below:

1. Metric: Performance is measured by the number of technologies assessed and the adoption or influence of the technologies assessed on DoD, DISA or IC programs, projects or services. Technologies are identified by many venues to include research and development initiatives, technology watch-lists from various sources (e.g. in-house, peer organizations, industry and/or academic advisors) and commercial product releases that have potential applicability to the warfigher mission area. These measures will allow CTO to align technology research and development with capabilities gaps and needs resulting in improved operational effectiveness and efficiencies.

Measure/Goal: Number of pilot and technology assessments instantiated within the CTO Technical Environment. Number research initiatives designed, developed and demonstrated and transitioned to programs, projects, or services.

FY14 Actual: 8 Assessed and 5 transitioned
FY15 Target: 8 Assessed and 5 transitioned
FY16 Target: 8 Assessed and 5 transitioned

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Defense Information Systems Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	Project (Number/Name) T62 / *GIG Systems Engineering and Support*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2014 Cost	FY 2014 Award Date	FY 2015 Cost	FY 2015 Award Date	FY 2016 Base Cost	FY 2016 Base Award Date	FY 2016 OCO Cost	FY 2016 OCO Award Date	FY 2016 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering and Technical Services	FFRDC	MITRE : McLean, VA	3.836	2.206	Oct 2013	1.485	Feb 2015	1.484	Oct 2015	-		1.484	Continuing	Continuing	Continuing
Industry Tech Res	C/FFP	Gartner : Various	0.249	-		-		-		-		-	-	0.249	0.249
GIG Technical Insertion Engineering	C/FFP	SRA, Inc. : Fairfax, VA	1.211	-		-		-		-		-	-	1.211	1.211
Product Development	C/Various	Raytheon : Various	1.601	-		-		-		-		-	-	1.601	1.601
DAMA-C	MIPR	Defense Micro-electronics Activity : Various	11.794	-		-		-		-		-	-	11.794	11.794
Thin Engineering Support	MIPR	MIT Lincoln Labs : Lexington, MA	2.450	0.800		1.010	Feb 2015	-		-		-	-	4.260	4.260
Engineering and Technical Support	C/FFP	Moya Technologies, Inc. : TBD	1.212	-		-		-		-		-	-	1.212	1.212
Engineering Technical Services	MIPR	TBD : TBD	1.262	2.053	Oct 2013	-		-		-		-	-	3.315	3.315
Product Development	C/FFP	Science and Technology Associates, Inc : Arlington, VA	0.643	0.508	Jan 2014	0.400	Jan 2015	-		-		-	-	1.551	1.551
Product Development	MIPR	SPAWAR : Charleston, SC	0.376	-		-		-		-		-	-	0.376	0.376
Product Development	MIPR	NSA : Ft. Meade, MD	0.691	-		-		-		-		-	-	0.691	0.691
Engineering Technical Services	C/FFP	TWM : Falls Church, VA	0.181	0.021		-		-		-		-	-	0.202	0.202
Product Development	C/FFP	SOLERS : Arlington, VA	0.400	0.595		-		-		-		-	-	0.995	0.995
Product Development	C/FFP	Booz Allen Hamilton : McLean, VA	0.500	-		-		-		-		-	-	0.500	0.500
Product Development	MIPR	JITC : Ft. Meade, MD	0.351	-		-		-		-		-	-	0.351	0.351

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Defense Information Systems Agency			Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	Project (Number/Name) T62 / *GIG Systems Engineering and Support*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2014 Cost	FY 2014 Award Date	FY 2015 Cost	FY 2015 Award Date	FY 2016 Base Cost	FY 2016 Base Award Date	FY 2016 OCO Cost	FY 2016 OCO Award Date	FY 2016 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering Technical Services	MIPR	Various : Ft. Meade, MD	0.415	-		0.326	Oct 2014	1.533	Dec 2015	-		1.533	Continuing	Continuing	Continuing
Engineering Technical Services	C/Various	IV2: IT Consulting Services, LLC : Jackson, WY	-	1.074		-		0.650	Oct 2015	-		0.650	Continuing	Continuing	Continuing
Engineering Technical Services	C/FFP	Information Assurance TWM Follow On : TBD	-	-		-		0.440	Oct 2015	-		0.440	Continuing	Continuing	Continuing
		Subtotal	27.172	7.257		3.221		4.107		-		4.107	-	-	-

	Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	27.172	7.257		3.221		4.107		-		4.107	-	-	-

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2016 Defense Information Systems Agency		Date: February 2015
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T62 / *GIG Systems Engineering and Support*

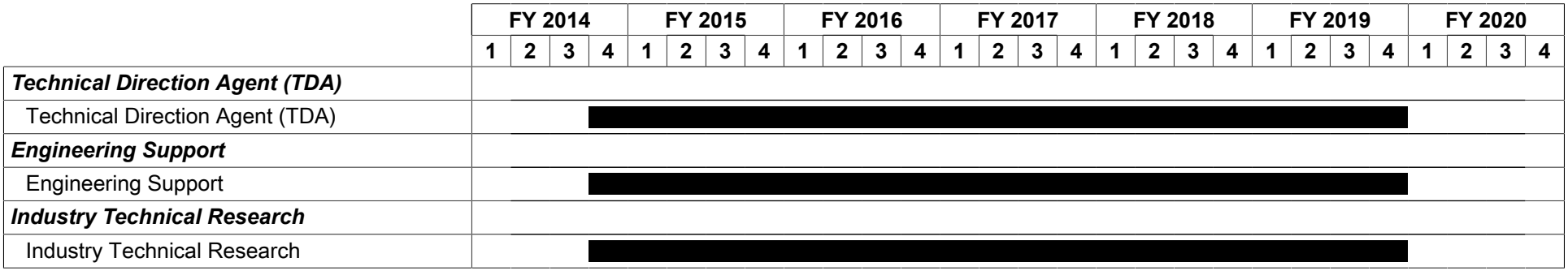

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Defense Information Systems Agency		Date: February 2015
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T62 / *GIG Systems Engineering and Support*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Technical Direction Agent (TDA)				
Technical Direction Agent (TDA)	4	2014	4	2019
Engineering Support				
Engineering Support	4	2014	4	2019
Industry Technical Research				
Industry Technical Research	4	2014	4	2019