Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Office of Secretary Of Defense

Appropriation/Budget Activity R-1 Prog

0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3:

Advanced Technology Development (ATD)

R-1 Program Element (Number/Name)

PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)

Date: March 2014

Advanced reclinology Development (ATD)												
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO <sup>#</sup>	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	192.297	138.374	165.008	131.960	-	131.960	146.878	140.496	146.502	144.865	Continuing	Continuing
P648: Joint Capability Technology Demonstration (JCTD)	192.297	138.374	152.408	131.960	-	131.960	146.878	140.496	146.502	144.865	Continuing	Continuing
P264: Disruptive Demonstrations	0.000	-	12.600	-	-	-	-	-	-	-	Continuing	Continuing

<sup>&</sup>lt;sup>#</sup> The FY 2015 OCO Request will be submitted at a later date.

#### Note

Historically, the Joint Capability Technology Demonstration (JCTD) Program has worked primarily with the Combatant Commands (COCOMs) and Services to identify DoD priorities and accelerated the development and demonstration of technical solutions. However, with the end of current conflicts there has been a strategic shift to a more balanced approach that will continue to address COCOM needs in conjunction with initiating broader, longer-term JCTDs to address DoD's strategic initiatives to mitigate emergent threats, address affordability and interoperability of defense systems. The JCTD Program will begin to employ developmental and operational prototypes to address these longer-term DoD priorities.

The shift in the JCTD Program will also result in a shift in Program metrics. JCTDs supporting the DoD's strategic initiatives will tend to be longer and larger, with less focus on transition and partner funding. Overall, we envision initiating fewer yet more impactful JCTD projects.

In FY 2015, Disruptive Demonstrations (Project P264) funding will be transferred from Program Element (PE) 0603648D8Z (Joint Capability Technology Demonstration (JCTD)) to PE 0603289D8Z (Advanced Innovative Analysis & Concepts).

## A. Mission Description and Budget Item Justification

The JCTD Program directly addresses DoD, multi-Service and COCOMs' priorities through partnering and cost sharing with solution providers and resource sponsors. The value and impact of the JCTD Program is to cost-effectively address the COCOMs' priorities and the Department's strategic initiatives to mitigate emergent threats, address affordability and interoperability of defense systems through developmental and operational prototyping. JCTDs provide key partnerships with the Department, Services, and other government agencies, select allies, and industry that allow for expedited development, deployment, and evaluation of capability solutions with the potential to close validated warfighting capability gaps. The JCTD Program typically demonstrates solutions in two - four years and has a transition rate to the warfighter greater than 80 percent. At least 57 JCTD projects supported Operation Enduring Freedom, 74 projects supported Operation Iraqi Freedom, and over 30 percent of JCTD projects involved partner nations. These JCTD partnerships also enable interdepartmental cooperation and joint capability development (e.g. Departments of Homeland Security, State, Transportation, National Aeronautics and Space Administration and Justice). In FY 2013, the JCTD Program successfully demonstrated and transitioned several key warfighter capabilities that address operational warfighting needs of the Department, providing affordable and sustainable solutions.

Key values demonstrated by the JCTD program are:

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Date: March 2014

#### Appropriation/Budget Activity

R-1 Program Element (Number/Name)

0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)

PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)

- The JCTD Program has a long history of providing enduring capabilities. See "Section D. Acquisition Strategy" for more details on transition.
- The JCTD Program delivers capabilities rapidly and projects execute far quicker than the traditional DoD Planning, Programming, Budgeting, and Execution (PPBE) process. The result is that 74 JCTD projects delivered capabilities used in Operation Iraqi Freedom, and 57 projects delivered capabilities to Operation Enduring Freedom. Most of those capabilities would not have been delivered or would have been significantly delayed if not for the JCTD program. Recent examples include:
- 1. A robust "detect and track" capability of "dark" (i.e. non-emitting) maritime targets. This is accomplished through automated data fusion of an existing suite of sensors supporting the Maritime Domain Awareness (MDA) function. This capability was successfully transitioned into the Sealink Advanced Analysis system at Office of Naval Intelligence and is now used by multiple agencies to provide a MDA capability.
- 2. An operational, internet-based, open-access, Arctic-focused, environmental research and decision-support system that enables local, regional, and international cooperation and coordination on long-term environmental planning and near-term actions in response to climatic and environmental changes occurring in the Arctic Region.
- 3. A vastly improved capability for U.S., NATO, and Coalition naval forces boarding operations, data collection, and sharing of time-critical boarding and biometrics information during an international operational assessment in April 2013.
- The JCTD Program enables coalition cooperative development by leveraging partner nation expertise and resources; approximately one-third of JCTD projects involve some degree of coalition partner participation. As a result of successful past collaborations, the program now enjoys routine interactions with the United Kingdom, Canada, Australia, and the Republic of Korea.
- The JCTD Program enables development and execution of interdepartmental cooperation projects, such as projects with the Department of Homeland Security, State, Transportation, and the National Aeronautics and Space Administration.
- The JCTD Program enables rapid response to new DoD priorities before Service PPBE cycles can respond. For example, the DoD has established priorities for Anti-Access/Area-Denial, Building Partner Capacity, understanding human terrain, and nuclear forensics. The JCTD Program quickly responded to the new priorities and is providing initial capabilities that are transitioning to the warfighter today.

#### MEASURABLE OUTCOMES:

- Capabilities delivered and technologies transitioned have been key metrics:
- 1. JCTDs typically transition capability within 24 36 months with initial spiral products and deliverables in less than 24 months.
- 2. The JCTD program has been achieving transition rates of over 80 percent, well in excess of the DoD Strategic Objective 3.5.2D, Performance Measure 3.5.1-2D, goal of 40 percent. The JCTD Program defines transition as all, or components of the demonstrated JCTD, going to a new or existing Program(s) of Record, providing fieldable-prototypes (residual capabilities) sustained by non-JCTD funds in direct support of operations in theater, or commodity-type capabilities entered onto GSA schedule for procurement by DoD users. In FY 2013, 12 of 12 completed JCTDs successfully transitioned.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Office of Secretary Of Defense

Date: March 2014

**Appropriation/Budget Activity** 

0400: Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)

R-1 Program Element (Number/Name)

PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)

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B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	158.263	174.428	156.756	-	156.756
Current President's Budget	138.374	165.008	131.960	-	131.960
Total Adjustments	-19.889	-9.420	-24.796	-	-24.796
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-14.331	-9.400			
<ul> <li>Congressional Rescissions</li> </ul>	-0.210	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
Reprogrammings	-2.067	-			
SBIR/STTR Transfer	-3.220	-			
<ul> <li>Transfer of Disruptive Demonstrations</li> </ul>	-	-	-21.000	-	-21.000
funding to PE 0603289D8Z					
Efficiency Savings	-	-	-3.796	-	-3.796
<ul> <li>Other Program Adjustments</li> </ul>	-0.061	-	=	-	-
FFRDC Adjustments	-	-0.020	-	-	-

### **Change Summary Explanation**

FY 2015: Net decrease of \$21.000M due to transfer of Disruptive Demonstrations (P264) funding from PE 0603648D8Z to new PE 0603289D8Z Advanced Innovative Analysis and Concepts.

Net decrease of \$3.796M is the result of promoting efficient spending to support agency operations.

Exhibit R-2A, RDT&E Project Ju	ustification:	PB 2015 C	Office of Sec	retary Of D	efense					Date: Marc	ch 2014	
Appropriation/Budget Activity 0400 / 3				PE 0603648D8Z / Joint Capability				Project (Number/Name) P648 I Joint Capability Technology Demonstration (JCTD)				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
P648: Joint Capability Technology Demonstration (JCTD)	192.297	138.374	152.408	131.960	-	131.960	146.878	140.496	146.502	144.865	Continuing	Continuing

<sup>&</sup>lt;sup>#</sup> The FY 2015 OCO Request will be submitted at a later date.

#### Note

Historically, the Joint Capability Technology Demonstration (JCTD) Program has worked primarily with the Combatant Commands (COCOMs) and Services to identify DoD priorities and accelerated the development and demonstration of technical solutions. However, with the end of current conflicts there has been a strategic shift to a more balanced approach that will continue to address COCOM needs in conjunction with initiating broader, longer-term JCTDs to address DoD's strategic initiatives to mitigate emergent threats, address affordability and interoperability of defense systems. The JCTD Program will begin to employ developmental and operational prototypes to address these longer-term DoD priorities.

The shift in the JCTD Program will also result in a shift in Program metrics. JCTDs supporting the DoD's strategic initiatives will tend to be longer and larger, with less focus on transition and partner funding. Overall, we envision initiating fewer yet more impactful JCTD projects.

In FY 2015, funds will be transferred from the JCTD Program Element (PE) to establish a new PE 0603289D8Z (Advanced Innovative Analysis & Concepts).

### A. Mission Description and Budget Item Justification

The JCTD Program directly addresses DoD, multi-Service and COCOMs' priorities through partnering and cost sharing with solution providers and resource sponsors. The value and impact of the JCTD program is to cost-effectively address the COCOMs' priorities and the Department's strategic initiatives to mitigate emergent threats, address affordability and interoperability of defense systems through developmental and operational prototyping. JCTDs provide key partnerships with the Department, Services, and other government agencies, select allies, and industry that allow for expedited development, deployment, and evaluation of capability solutions with the potential to close validated warfighting capability gaps. The JCTD Program typically demonstrates solutions in two - four years and has a transition rate to the warfighter greater than 80 percent. At least 57 JCTD projects supported Operation Enduring Freedom, 74 projects supported Operation Iraqi Freedom, and over 30 percent of JCTD projects involved partner nations. These JCTD partnerships also enable interdepartmental cooperation and joint capability development (e.g. Departments of Homeland Security, State, Transportation, National Aeronautics and Space Administration and Justice). In FY 2013, the JCTD Program successfully demonstrated and transitioned several key warfighter capabilities that address operational warfighting needs of the Department, providing affordable and sustainable solutions.

Key values demonstrated by the JCTD program are:

- The JCTD Program has a long history of providing enduring capabilities. See "Section D. Acquisition Strategy" for more details on transition.
- The JCTD Program delivers capabilities rapidly and projects execute far quicker than the traditional DoD Planning, Programming, Budgeting, and Execution (PPBE) process. The result is that 74 JCTD projects delivered capabilities used in Operation Iraqi Freedom, and 57 projects delivered capabilities to Operation Enduring Freedom. Most of those capabilities would not have been delivered or would have been significantly delayed if not for the JCTD program. Recent examples include:

Exhibit R-2A, RDT&E Project Justification: PB 2015 Office of Secretary Of D	efense		Date: March 2014
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
0400 / 3	PE 0603648D8Z I Joint Capability	P648 / Join	nt Capability Technology
	Technology Demonstration (JCTD)	Demonstra	tion (JCTD)

- 1. A robust "detect and track" capability of "dark" (i.e. non-emitting) maritime targets. This is accomplished through automated data fusion of an existing suite of sensors supporting the Maritime Domain Awareness (MDA) function. This capability was successfully transitioned into the Sealink Advanced Analysis system at Office of Naval Intelligence and is now used by multiple agencies to provide a MDA capability.
- 2. An operational, internet-based, open-access, Arctic-focused, environmental research and decision-support system that enables local, regional, and international cooperation and coordination on long-term environmental planning and near-term actions in response to climatic and environmental changes occurring in the Arctic Region.
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- The JCTD Program enables coalition cooperative development by leveraging partner nation expertise and resources; approximately one-third of JCTD projects involve some degree of coalition partner participation. As a result of successful past collaborations, the program now enjoys routine interactions with the United Kingdom, Canada, Australia, and the Republic of Korea.
- The JCTD Program enables development and execution of interdepartmental cooperation projects, such as projects with the Department of Homeland Security, State, Transportation, and the National Aeronautics and Space Administration.
- The JCTD Program enables rapid response to new DoD priorities before Service PPBE cycles can respond. For example, the DoD has established priorities for Anti-Access/Area-Denial, Building Partner Capacity, understanding human terrain, and nuclear forensics. The JCTD Program quickly responded to the new priorities and is providing initial capabilities that are transitioning to the warfighter today.

#### MEASURABLE OUTCOMES:

- Capabilities delivered and technologies transitioned have been key metrics:
- 1. JCTDs typically transition capability within 24 36 months with initial spiral products and deliverables in less than 24 months.
- 2. The JCTD program has been achieving transition rates of over 80 percent, well in excess of the DoD Strategic Objective 3.5.2D, Performance Measure 3.5.1-2D, goal of 40 percent. The JCTD Program defines transition as all, or components of the demonstrated JCTD, going to a new or existing Program(s) of Record, providing fieldable-prototypes (residual capabilities) sustained by non-JCTD funds in direct support of operations in theater, or commodity-type capabilities entered onto GSA schedule for procurement by DoD users. In FY 2013, 12 of 12 completed JCTDs successfully transitioned.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: Mission Assurance Decision Support System (MADSS)	1.150	-	-
<b>Description:</b> MADSS provides an integrated Command, Control and Communications (C3) operational and critical infrastructure relationships understanding by correlating data from different data sources, using web-based services, and secure network and automated data transformation services. MADSS provides improved responsiveness and predictive capability, rapid event analysis, and Warfighter analysis of alternatives development for network and critical infrastructure outages. MADSS is in daily operational use at U.S. Strategic Command (STRATCOM). <b>FY 2013 Accomplishments:</b>			

	UNCLASSIFIED				
Exhibit R-2A, RDT&E Project Justification: PB 2015 Office	e of Secretary Of Defense	Date: N	1arch 2014		
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)	Project (Number/N P648 / Joint Capab Demonstration (JC	ogy		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015	
Provided Extended Operational Use and transitioned MADS	S to Defense Information Systems Agency. Completed the JCT	D.			
Title: Tactical Edge Data Solutions (TEDS)		1.955	-		
level so that web-services data sharing frameworks based o systems. TEDS focuses on exchanging data from Army and Battlespace Awareness domains. The efficiencies gained w multiple programs and the ability to seamlessly exchange da Organization (NATO) and coalition partners who adopt UCo	Control (C2) Core extensions for tactical information at the batter of Universal Core (UCore) can enable data sharing among dispart Marine Corps C2 Authoritative Data Sources for the C2 and will be the reduction of redundant software being developed acrost awithin Military Services as well as the North Atlantic Treaty re. Transition of the C2 Core extensions and Web services for of Record in the Army and Marine Corps. The output of TEDS octure environment.	ss			
partners. Transitioned these capabilities by uploading the in Repository and the NATO Metadata Registry and Repository in tactical programs of record to enable mediation of data ac	Core in Coalition Warrior Interoperability Exercise with seven conformation exchange specifications to the DoD Metadata Data y. Transitioned Web services to Army and Marine Corps for use cross tactical C2 systems for Position Reports, Significant Activition atting. Provided the repeatable processes for extending C2 Conforce support, and cyber. Completed the JCTD.	<b>;</b> y,			
Title: Command and Control Gap Filler (C2GF)		3.910	0.690		
government departments. The C2GF solution will also provi	nitecture that can share all-source air surveillance data between de data fusion services to users. Additionally, the C2GF will ref hniques, and Procedures (TTP) necessary for air domain survei	ine			
	ern Command exercises. Provided expanded disparate sensor etting. Provided sensor integration capability among DoD and F Center.	ederal			
FY 2014 Plans: Finalize JCTD Transition Documents and complete the JCTI	D.				
Title: National Technical Nuclear Forensics (NTNF)		4.083	1.600		

	UNCLASSIFIED				
Exhibit R-2A, RDT&E Project Justification: PB 2015 Office of Secretary	Of Defense		Date: M	arch 2014	
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)	P648	Project (Number/Name) P648 I Joint Capability Technology Demonstration (JCTD)		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2013	FY 2014	FY 2015
<b>Description:</b> NTNF will strengthen strategic nuclear deterrence by enhance after release of nuclear materials (details are classified). NTNF will integrate technologies in both manned and unmanned platforms, and integrate DoD Concept of Operations for advanced air and ground sample collection with enhanced integrated yield estimation methods for nuclear events. The technologies in both manned and unmanned platforms, and integrate DoD Concept of Operations for advanced air and ground sample collection with enhanced integrated yield estimation methods for nuclear events. The technologies in both manned and unmanned platforms, and integrate DoD Concept of Operations for advanced air and ground sample collection with enhanced integrated yield estimation methods for nuclear events.	ate advanced air and ground debris sample collect capabilities into the developing joint interagency global applicability. The project will also demons hniques to be employed will increase capabilities	tion trate			
FY 2013 Accomplishments:  Completed and produced operational assessment of integrated yield deter development and training with unmanned advanced ground sampling colle system capabilities. Operationally demonstrated and exercised advanced line-of site communications systems. Operationally demonstrated and exercised advanced particulate airborne collection system capabilities on Department of Homel unmanned aerial system/platform. Produced advanced ground sampling of interim operational assessments. Conducted integration and technical test line-of-sight (satellite) communications. Conducted integration, ground/technical collection system on manned C-130 aircraft.	ection platform and particulate airborne collection ground sampling collection platform capabilities vercised particulate airborne collection system and and Security Customs and Boarder MQ-9 Predate collection and particulate airborne collection systeting of advanced ground sampling collection with	or m non-			
FY 2014 Plans: Continue integration, ground/technical testing and initial flight testing of paraircraft. Complete the JCTD.	rticulate airborne collection system on manned C-	130			
Title: Dark Fusion (DF)			1.725	-	-
<b>Description:</b> DF is a capability to detect and track non-emitting maritime to capabilities which provides the ability to detect and track difficult maritime to (details are classified).					
FY 2013 Accomplishments:  Conducted technical demonstration and final operational demonstration. Tintelligence (ONI) program of record. Completed Military Utility Assessment		al			
Title: Combat Commander Direct Participation, Transition Enabling, and S	pecial Programs		17.908	24.150	33.150
<b>Description:</b> This effort is comprised of three programs that support the eleprojects. The three programs are (1) Unified Combatant Commander (CO Program Integration Office for execution of select, classified projects. (1) (2)	COM) Direct Support; (2) JCTD Pre-Transition; a	nd (3)			

PE 0603648D8Z: *Joint Capability Technology Demonstration (JCTD)* Office of Secretary Of Defense

Exhibit R-2A, RDT&E Project Justification: PB 2015 Office of S	Secretary Of Defense		Date: M	larch 2014	
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)	P648 /	ect (Number/Name) 3 I Joint Capability Technology onstration (JCTD)		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2013	FY 2014	FY 2015
in specifying capability needs, project selection, validation, demo Program provides direct support to COCOMs, enabling the COCO two full-time equivalents (FTEs). (2) JCTD Pre-Transition: In sor available for one to two years following the JCTD assessment ph where there is a clear transition and the need to sustain the capa transition funds the JCTD Pre-Transition fund may be used to me classified projects that require enhanced security measures due within the Program Integration Office.	OMs to provide an on-site JCTD manager, typically one to me cases, Service or Agency partner transition funding is nease due to Service or Agency commitments. In such case ability for a short time prior to availability of Service or Agence that need. (3) Program Integration Office: A limited nur	ot s, cy nber of			
FY 2013 Accomplishments: COCOM direct participation enabled COCOM staff participation in warfighter input, and proper focus of JCTD projects. JCTD transit projects, sustaining the efforts for a year until committed Program Office executed projects as approved and developed new projects.	ition enabling funds provided transition bridge funding for son of Record (POR) funds were received. The Program Inte	everal gration			
FY 2014 Plans: Continue to provide COCOM direct participation to enable COCO ensuring direct warfighter input and proper focus of JCTD project received. Develop and execute projects as proposed by COCOM	ts. Sustain selected completed JCTD efforts until POR fund				
FY 2015 Plans: Continue to provide COCOM direct participation to enable COCO ensuring direct warfighter input and proper focus of JCTD project received. Develop and execute projects as proposed by COCOM	ts. Sustain selected completed JCTD efforts until POR fund				
Title: Enabling Technologies (ET)			31.511	8.050	8.05
<b>Description:</b> The ET fund is used to rapidly assess or mature en whether a JCTD project should be initiated. Emerging Technolog may lead to JCTD proposals, depending on the COCOM assessr	gy investments are small, short (less than one year) efforts				
FY 2013 Accomplishments: Projects were selected based on the rapid assessment or maturin partners, and/or DoD leadership that were intended to mitigate te be initiated. Selected efforts were small, focused, and executable (prototype hardware and/or software, integrated subsystem, tech	echnical risks prior to determining whether a JCTD project se in less than one year and required a concrete deliverable	hould			

•	f Secretary Of Defense	Date: I	March 2014	
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)	Project (Number/ P648 / Joint Capa Demonstration (JC	bility Technolo	gy
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
technology maturation, leads to risk mitigation, partner contribu in FY 2013, ETs included funding for "Disruptive Demonstratior capabilities that addressed Secretary/Department Strategic Ver	ns" to support development/demonstration of time-sensitive			
FY 2014 Plans: Projects will continue to be determined based on the rapid asset COCOMs, interagency partners, and/or DoD leadership that are a JCTD project should be initiated. Selected effort will be small concrete deliverable (prototype hardware and/or software, integattributes include technology maturation, leads to risk mitigation FY 2014 a new project code (P264) was initiated for Disruptive now reflected in project code P264.	e intended to mitigate technical risks prior to determining whet I, focused, and executable in less than one year and require a grated subsystem, tech assessment report, etc.). Desired ET n, partner contributions, and directly responds to COCOM nee	ds. In		
FY 2015 Plans: Projects will continue to be determined based on the rapid asse COCOMs, interagency partners, and/or DoD leadership that an		her a		
Title: Smart Power Infrastructure Demonstration for Energy Re	liability and Security (SPIDERS)	0.690	2.013	0.57
<b>Description:</b> SPIDERS will demonstrate cyber-secure "smart" of renewable energy and storage on military installations, in pa Department of Energy (DOE). The expected output and efficierisk" of extended electric grid outages by developing the capab security.	rtnership with Department of Homeland Security (DHS) and ncy to be demonstrated is a reduction in the "unacceptably hig			
<b>FY 2013 Accomplishments:</b> Conducted first circuit level technical and operational demonstr Transitioned JBPHH micro-grid ownership to Navy Facilities Er	, ,			
results. Conducted second technical demonstration at Fort Ca the micro-grid including electric vehicles.	, ,			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Office of Secre	etary Of Defense	Date:	March 2014	
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)	Project (Number P648 / Joint Capa Demonstration (J	ability Technolo	pgy
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
Perform second operational demonstration at Fort Carson, CO. Trans SPIDERS industry day to share results. Complete micro-grid design install micro-grid technologies at Camp Smith.				
<b>FY 2015 Plans:</b> Perform third and final technical and operational demonstration on the economic opportunity to save electrical costs at the base. Transition JCTD.				
Title: Computer Adaptive Network Defense-in-Depth (CANDID)		1.28	0.227	-
<b>Description:</b> CANDID will demonstrate the integration of Virtual Secuenable network defense-in-depth and ensure Command and Control and deny computer networks. CANDID will increase security of vital confiltration from external threats, ex-filtration of protected information, situational awareness through fusion of heterogeneous sensor data.	(C2) capabilities despite hostile attempts to hack, disrup C2 capabilities in a cyber-contested environment; preve	nt		
FY 2013 Accomplishments: Hardened leave behind/transition ready VSE Secret Internet Protocol Command, U.S. Pacific Fleet/Joint Task Force 519, and functional co		С		
FY 2014 Plans: Complete transition to Defense Information Systems Agency. Complete	ete the JCTD.			
Title: Collaborative Coalition Collection Environment (C3E)		3.06	1 -	
<b>Description:</b> C3E is a language independent intelligence data collect fielding to support the Operational Control (OPCON) transformation oby guiding the user to choose a variety of options using cascading drouge describe their requirements in general military terms, symbols, and group on specialized skills, language, and process that are beyond the shart to gather, manage, and understand collection requirements and tasks	n the Korean Peninsula. C3E reduces data collection exp-down menus. C3E will enable U.S./Korean personner aphics within their native language. C3E reduces reliar ed experience of coalition operators. It improves the ab	rrors el to ace		
FY 2013 Accomplishments:				

	Secretary Of Defense	Dat	te: March 201	4
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)		Joint Capability Technology nstration (JCTD)	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 201	13 FY 201	4 FY 201
Conducted final Technical Demonstration event. Conducted final Utility Assessment. Finalized Concept of Operations (CONOPs capability to support current missions. Initiated transition through	). Provided United States Pacific Command with a leave bel			
Title: Joint Warfighting Integrated Network Operations (NetOps)	) (JWIN)	1.	431	-
<b>Description:</b> JWIN consolidates independent Situational Aware framework for analysis, planning, and display. JWIN translates format. This approach enables employment of Network Operati Joint Task Force (JTF) Commander's decision making process enhanced situational awareness to understand the impact of net policy collaboration and management capabilities used to comm Concept of Operations (CONOPS) is developed to ensure a Join Tactics, Techniques and Procedures (JTTPs) will be identified d (USPACOM). Providing the JFC/JTF a consolidated network vie NETOPS supporting associated missions to implement the com	Service specific network information into a common actional ons tools to enhance the Joint Force Commander (JFC) or over tactical edge network resources. Key benefits include twork events on critical operations and network distributed nunicate authoritative direction over tactical network resource nt procedural construct is established, and proposed Joint luring initial prototype fielding at United States Pacific Commew affords them the ability to monitor and influence tactical	es.		
FY 2013 Accomplishments:  Conducted final Technical Demonstration and Operational Demo CONOPs and proposed JTTPs. Provided USPACOM with a lea		ized		
Title: Autonomous Technologies for Unmanned Aerial Systems	(ATUAS)	4.	888	-
<b>Description:</b> ATUAS will integrate a series of technologies and from a forward point of need in operationally relevant conditions onboard enhanced autonomous navigation and contingency ma Unmanned Aerial Systems (UAS) reducing the risks to the Warf	<ul> <li>It will demonstrate increased mission level autonomy throu inagement software for single operator/multi-vehicle control</li> </ul>	ıgh		
FY 2013 Accomplishments: Installed Electro-Optical/Infrared (EO/IR) Camera, Beyond Line	of Sight (BLOS), 3D Light Detection and Ranging (LiDAR) are). Integrated and tested autonomous en route re-programmisment focusing on autonomous delivery of multiple loads to			

Exhibit D 24 DDT9E Drainet Justification, DD 2015 Office of Courses	TY Of Defence		Doto: M	arch 2014	
Exhibit R-2A, RDT&E Project Justification: PB 2015 Office of Secretar		<b>.</b>			
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)	P648 /	t (Number/N Joint Capabi stration (JC	ility Technolog	gy
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2013	FY 2014	FY 201
(AACUS) Program of Record and Joint Cargo UAS Programs of Record. procedures demonstrated. Completed the JCTD.	Determined the military utility of the technologies a	ind			
<b>Title:</b> Countermeasure Expendable with Replaceable Block Elements for (CERBERUS)	r Reactive Unmanned Systems Multi-Mission Jamm	er	1.339	0.225	
<b>Description:</b> CERBERUS delivers a net-enabled modular expendable ja Launched Decoy (MALD) that employs replaceable nosecone payloads to responsibility. CERBERUS reduces overall mission costs by providing responsibility.	to counter emerging threats in the PACOM area of				
FY 2013 Accomplishments: Completed advanced radar jamming payload assembly and data link ele demonstration of first nose cone assembly.	ctronic attack payload assembly. Conducted techni	cal			
FY 2014 Plans: Integrate final nose cone assemblies. Complete Operational Utility Asse	essment. Complete the JCTD.				
Title: Regional Domain Awareness (RDA)			2.346	0.817	
<b>Description:</b> RDA demonstrates a standards-based unclassified framewagencies and international partners. RDA will install government off the to create a multi-domain unclassified information sharing framework between partners. RDA will demonstrate (1) assured integration from air, maritime monitoring and alerting; (3) selective sharing of situational awareness an operations and Tactics, Techniques & Procedures supporting the sharing Infrastructure) users; and (5) access to unclassified data and services.	shelf software to integrate air, land, and sea sensor ween U.S. interagency and local, tribal, and internation e, and land sensors and networks; (2) user defined alerts to multiple defined users; (4) Concept of	data			
FY 2013 Accomplishments: Finalized development and Information Exchange Package Documents ( Certification and Accreditation. Conducted Technical Demonstration nur U.S. Southern Command and the Joint Inter-Agency Task Force-South, Finalized Management and Transition Plan and Technology Transition A initiated transition deployment to the Defense Information Systems Agen	mber two which demonstrated data sharing betweer U.S. Africa Command, and U.S. European Commangreement. Deployed RDA with U.S. Navy's 6th Fle	nd.			
FY 2014 Plans:					

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B. Accomplishments/Planned Programs (\$ in Millions)		FY	2013	FY 2014	FY 2015
Conduct Operational Demonstration and Operational Utility Assessment Systems Agency and U.S. Southern Command. Complete the JCTD.	t (OUA). Complete transition to Defense Information				
Title: Three Dimensional Landing Zone (3D-LZ)			5.486	2.622	
<b>Description:</b> 3D-LZ will deliver an integrated sensor suite capable of prodegraded visual environments encountered on takeoff and landings, call terrain awareness for safety of flight. The program will deliver an integral	ole warning and obstacle avoidance cues, and gener				
FY 2013 Accomplishments: Conducted technical demonstrations of sensor package in flight tests.					
FY 2014 Plans: Complete Operational Utility Assessment. Transition to Air Force Globa	al Reach Program Office. Complete the JCTD.				
Title: Anti-Jam Precision Guided Munitions (AJPGM)			5.031	2.130	
<b>Description:</b> AJPGM will deliver precision navigation capability to sever environments. AJPGM will also deliver home-on-jam capability. Specifiare classified.		reats			
FY 2013 Accomplishments: Completed home-on-jam sensor assembly. Completed laboratory demo	onstrations. Completed Anti-jam sensor assemblies.				
FY 2014 Plans: Integrate sensor assemblies. Conduct technical demonstrations and fin Complete Operational Utility Assessment. Transition to Air Combat Pro-		es.			
Title: Joint Strike Fighter (JSF) Enterprise Terminal (JETpack fifth to four	urth)		5.865	2.070	
<b>Description:</b> JETpack fifth to fourth supports the airborne gateway need fighters by translating their tactical data link into Link-16 messages that demonstrate: (1) four flyable prototype dual-band, multi-beam antennas electronics.	can be viewed by the fourth Gen aircraft. JETpack v	vill			
FY 2013 Accomplishments:					

PE 0603648D8Z I Joint Capability	<b>Project (Number/Name)</b> P648 I Joint Capability Technolog Demonstration (JCTD)		gy
	FY 2013	FY 2014	FY 2015
pack shipset. Initiate transition to the F-15C community.			
	2.185	4.594	•
MAS will be comprised of a By-Wire kit that will provide ac or current and future robotics to be implemented relatively will contain the primary sensing and intelligence for scalab	tive		
Autonomy kits installed on four Army and Marine tactical			
ent. Residuals planned for transition to Army and Marine y Husky Mounted Detection System Program of Record ar ord. AMAS also plans to transition to the proposed new A			
•	2.317	1.996	
y and data throughput. Presently limited to a maximum dato maintain global communications is further impacted by ecial Operations Command the capability and capacity to disatellite antenna (HMSA) during crisis in response to the	ata		
	PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)  al (JET) radio with Intra-Flight Data Link through a series of leted development and range test of a prototype dual-band leted development and range test of a prototype dual-band leted development and range test of a prototype dual-band leted development and range test of a prototype dual-band leted will be comprised of a By-Wire kit that will provide according to current and future robotics to be implemented relatively will contain the primary sensing and intelligence for scalabilitions.  If Autonomy kits installed on four Army and Marine tactical leter. Residuals planned for transition to Army and Marine by Husky Mounted Detection System Program of Record and another than the JCTD.  on high-priority and senior leader communications existing and data throughput. Presently limited to a maximum dato maintain global communications is further impacted by special Operations Command the capability and capacity to	PE 0603648D8Z / Joint Capability Technology Demonstration (JCTD)  FY 2013  All (JET) radio with Intra-Flight Data Link through a series of leted development and range test of a prototype dual-band,  Fipack shipset. Initiate transition to the F-15C community.  2.185  scalable modes of robotic technology through the integration MAS will be comprised of a By-Wire kit that will provide active or current and future robotics to be implemented relatively will contain the primary sensing and intelligence for scalable tions.  A Autonomy kits installed on four Army and Marine tactical  Technical Demonstration (TD-2) and Operational ent. Residuals planned for transition to Army and Marine y Husky Mounted Detection System Program of Record and ord. AMAS also plans to transition to the proposed new Army Complete the JCTD.  2.317  on high-priority and senior leader communications existing y and data throughput. Presently limited to a maximum data to maintain global communications is further impacted by secial Operations Command the capability and capacity to d satellite antenna (HMSA) during crisis in response to the	PE 0603648D8Z / Joint Capability Technology Demonstration (JCTD)    P648 / Joint Capability Technology Demonstration (JCTD)

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2	2013	FY 2014	FY 2015
Completed Technical Demonstration #1, a static over-the-air test, a	nd the preliminary HMSA fit-check on the C-17.				
FY 2014 Plans: Complete the antenna-to-hatch integration. Conduct the in-flight OphMSA flight certified prototype. Deliver the JCTD Final Report. Co		leliver			
Title: Deep Seaweb (DSW)			1.760	3.220	
<b>Description:</b> DSW provides a capability to persistently detect and retrack illicit traffickers in source and transit zones. DSW will deliver a unmanned communication gateways, and an operations center serve that cue coalition forces of trafficking threats including fully submers decision makers for near real-time action by U.S. or partner nation of	an undersea-network of fixed bottom sensor nodes, mobi ver that will provide autonomous 24/7 tripwire surveilland sible vessels. This information will be available to the tac	е			
FY 2013 Accomplishments: Fabricated two sensor-node-systems, one mobile gateway, and proemployment and operations. Conducted a technical demonstration and data-throughput. Evaluated procedures for deep water sensor Conducted end-to-end system tests from bottom nodes through the operational center. Developed Technical Demonstration Two plant acoustic communications to satellite communications interface. Ide concepts of employment and operations.	in deep water to validate undersea communication range node deployment, sensor node localization, and recover communications gateway to demonstrate connectivity to to include data processing/classification, and mobile gate	y.			
FY 2014 Plans: Procure remaining five bottom-nodes, one-gateway, and deployment node, one-gateway) in operationally representative environment to to yield type/course/speed/etc.), pass to mobile gateway for forward operations center workflow. Complete manufacture of seven sensor Conduct Operational Utility Assessment, operational demonstration Agency Task Force, South. Complete the JCTD.	detect, classify (sensor node processing acoustic signatuling to shore facility via email to evaluate integration with pr-node-systems and two mobile gateways and server.	ıre			
Title: Defense Installation Access Control (DIAC)			3.324	3.482	
<b>Description:</b> DIAC will develop an identity management enterprise actionable information to support the installation access control dec such as the National Crime Information Center and Terrorist Screen personnel prior to entry to DoD installations worldwide.	ision-making process based on authoritative data source	s			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015	
	rivacy issues. Integrated installation access control systems wi copulation database, Interoperability Layer Service, and Continu hitecture integrating National Crime Information Center.				
Service Criminal Justice System databases, and non-DoD cr	hitecture with the added input from the Terrorist Screening Data redential revocation lists. Conduct final operational demonstration ssessor report. U.S. Northern Command sponsor will issue final into Programs of Record. Complete the JCTD.	on			
Title: Foliage Penetrating Airborne Light Detection and Range	ging (LIDAR) for Reconnaissance Imaging (FALCON-I)	3.679	3.393		
LIDAR and Ultra High Frequency (UHF) Synthetic Aperture F	ating (FOPEN) sensing system that collects, processes, and fus Radar (SAR) to produce a comprehensive three dimensional (3l bscured by foliage. The ultimate goal of the FALCON-I is to proof foliage obscured target areas of interest.	O)			
FY 2013 Accomplishments: Completed FALCON-I system integration and testing. Perform to include new algorithms for data fusion and exploitation, envisualization, and recovery of data. Developed Concept of Copolarimetric LIDAR assessment.		ial			
FY 2014 Plans:					
Complete Operational Testing, Demonstration, and Joint Mili	itary Utility Assessment. Complete the JCTD.	1.100	0.575		
Title: Information Volume & Velocity (IV2)		1.438	0.575	,	
trends and changes in publicly available information over tim technologies and processes from successful commercial app the strategic decision-making process; real-time situational a	ng capability that enables users to identify and visualize patterns and space to enhance decision-making purposes. It will lever olications to deliver accurate and actionable information to supple wareness; and long-term proactive analytics for strategic plannal from personal and mainstream media, including audio, video,	rage ort: ing.			
FY 2013 Accomplishments:					

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 201		
Established a Control Board to oversee the protection of personal i concerns over personally identifiable information (PII). Developed application. Conducted an operational demonstration using the Ke integrating with other analytical tools, and gathering user feedback documentation to support transition of the capability. Finalized the on contract.	and executed a prototype user interface and web-based enyan elections as a test case, examining multiple data typ for improvement of the tool. Developed the architectural	es,				
FY 2014 Plans: Develop a final application for use by Combatant Commands include application for acceptance of multiple data types and integration. To system based on operator feedback. Test for scalability and begin IV2 capability to the Defense Information Systems Agency.	Test the system in multiple operational scenarios, and refir	e the				
Title: Kestrel Eye		4.221	3.229			
<b>Description:</b> Kestrel Eye is a very small, 25 kilogram class satellite imagery. Imagery tasking and delivery is controlled directly by the real-time situational awareness and decision-making in the field. T constellation for persistence, near continuous converge between 4 are: (1) Finish one Block one "proof of concept" design, launch Bloupgrade Block two design with propulsion system and improved tel launch three Block two design Kestrel Eye satellites.	Combatant Commander to ensure sufficient timelines for the cost of less than \$1.500 million enables an affordable 5 degrees North/South. The primary outputs and efficience ock one Kestrel Eye and conduct on-orbit evaluation and	ies				
FY 2013 Accomplishments:  Launched one Block one design. Completed construction of three keeping and a star tracker for increasing pointing accuracy.	Block two design Kestrel Eyes, adding propulsion for stat	ion-				
FY 2014 Plans: Depending on launch opportunities, launch three Block two design assessments. Initiate transition to the U.S. Army Program Executive		ı				
Title: Kinetic/Non-kinetic Integrated Force Effects (KNIFE)		5.670	2.266			
<b>Description:</b> KNIFE will provide Combatant Commanders with fou updates to inform strategic and operation decision-making in a comcapability that models multiple effects for planner collaboration and	npressed timeframe. KNIFE provides an integrated, enter					

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			larch 2014				
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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015			
comprised of cyber, electronic warfare, kinetic and space effects. management during planning and execution.	The primary metric is more robust, accurate and timely targe	ing					
FY 2013 Accomplishments:  Dynamically updated and shared 4 dymentional views of effects. I warfare, space, and kinetic data. Produced composite effects and	•						
FY 2014 Plans: Publish sequenced tasks for in-line approval by decision makers. analysis and incorporate into KNIFE. Complete the JCTD.	Address Diplomatic, Informational and Economic effects						
Title: Rapid Open Geospatial User Environment (ROGUE)		2.645	1.967				
Concept of Operations, Tactics, Techniques, and Procedures (TTF based geospatial capability linking Joint Task Force Headquarters interagency components, and private sector non government Organization of the Concept of C	components to the tactical edge of mixed U.S., partner natio						
platforms (Web-portal, Desktops, Smart Phones, etc.) to enable particles Assistance/Disaster Relief support missions in support of Theater	artnering with agencies and countries conducting Humanitaria						
	classes of functionality. Integrated software solutions ervices to include the incorporation and managing of based applications that have a direct connection to data tentation with scalability based upon the virtual Machine	n					
Assistance/Disaster Relief support missions in support of Theater  FY 2013 Accomplishments:  Developed and implemented five applications addressing differing to the Geospatial software platform. Developed open back-end se geospatial updates from various sources. Developed four location storage and Support Service Oriented Software and Cloud implem Template. Developed "end to end" Geographical Information Syst	artnering with agencies and countries conducting Humanitaria Security Cooperation and Humanitarian Assistance.  classes of functionality. Integrated software solutions ervices to include the incorporation and managing of abased applications that have a direct connection to data tentation with scalability based upon the virtual Machine em service. Performed developmental testing and operations	n al					
Assistance/Disaster Relief support missions in support of Theater  FY 2013 Accomplishments:  Developed and implemented five applications addressing differing to the Geospatial software platform. Developed open back-end se geospatial updates from various sources. Developed four location storage and Support Service Oriented Software and Cloud implem Template. Developed "end to end" Geographical Information Syst assessments.  FY 2014 Plans: Perform final operational utility demonstration and complete independent of the property of the support	Security Cooperation and Humanitarian Assistance.  classes of functionality. Integrated software solutions ervices to include the incorporation and managing of based applications that have a direct connection to data tentation with scalability based upon the virtual Machine em service. Performed developmental testing and operations endent assessor report. Transition ROGUE tools and standard	n al	0.317				

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
requirements. The JCTD will have three nanosatellites buil and Utility Assessment and provides a residual operational	t and tested. It will launch and conduct the operational demonstrace capability.	ition		
FY 2013 Accomplishments: Completed the building and testing of three nanosatellites a	and associated ground hardware.			
FY 2014 Plans: Launch three nanosatellite. Conduct an operational demon	nstration and utility assessment. Initiate transition.			
Title: Soldier-Warfighter Operationally Responsive Deploye	er for Space (SWORDS)	4.946	3.782	-
orbits. It provides the capability to satisfy Combatant Comr	oid and predictable launch of small satellites to precise, optimum mand's urgent needs for augmentation of persistent imagery or oduction, SWORDS is targeted to cost \$1.000 million per launch or a wide variety of ranges, including austere locations.	25		
provided by National Aeronautics and Space Administration support equipment, Concept of Operations, and procured n Completed wind tunnel testing of launch vehicle. Complete	ngine and the first stage separation design as a result of analyses in (NASA). Completed conceptual design of launch vehicle, ground naterials for fabrication of engines and launch vehicle first stage. But avionics hardware design and began procurement of components and. Designed and began fabrication of full scale first stage grounds.	nts.		
FY 2014 Plans: Conduct sub-orbital flight test. Conduct orbital flight test. In Missiles & Space (PEOMS).	itiate transition through the US Army Program Executive Office			
Title: Unified Command and Control (UC2)		2.444	3.306	-
with compartmented network protection. UC2 will provide risk to their own mission without introducing risk to the Glob	ill support discretionary information sharing on a common network network enclaves to allow operational commanders to manage cyloal Information Grid. UC2 will provide key lessons learned for ass C2) in anti-access/area denial environments and will allow greated Task Forces, and functional component headquarters.	per ured		
FY 2013 Accomplishments:				

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015	
Installed and tested the Common Mission Network Transport (CN Component Commanders for data exchange with Defense Inform Conducted technical demonstrations					
FY 2014 Plans: Install and test CMNT and AVE at three additional sites. Conductor Transition to Defense Information Systems Agency and U.S. Nav		nt.			
Title: Vector		1.648	1.060		
<b>Description:</b> Vector will demonstrate two cube satellites for an o (OD) and Operational Utility Assessment (OUA). The system will end-of-life. Additional details are classified.					
FY 2013 Accomplishments: Completed Information Assurance assessment; final end-to-end Cube Satellites to Kirtland Air Force Base, New Mexico for launce		d two			
FY 2014 Plans: Launch two Cube Satellites, complete on-orbit checkout and con Complete Final Report and finalize Joint Capabilities Integration Complete the JCTD.	· · · · · · · · · · · · · · · · · · ·				
Title: Minor Resource Projects		3.025	2.875	2.87	
<b>Description:</b> Provide resources for approved JCTD projects req	uiring less than one million dollars.				
FY 2013 Accomplishments:  Completed and transitioned, Arctic Collaborative Environment (A integrates disparate data focused on arctic sea ice flow and temp Completed Cooperative Security & Engagement (CSE), a region assessment framework for cooperative security operations with a Weapon System (FW APKWS), a precision 2.75 rocket for Low-for Persistent Operation (HIPPO), a scalable, resilient-structured major disruptions from war. Completed Maritime Predator (MP),	perature to observe climate adjustments and military applically based interagency adaptive planning, decision-making a external partners. Completed Fixed Wing Advanced Precision collateral-damage. Completed Hardened Installation Protect solution to enhance continuity of operations in the face of	bility. and on Kill tion			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
capabilities. Completed Preferred Force Generation (PFG), a pwith greater speed and fidelity to support planning processes as		sts		
FY 2014 Plans: Continue to provide resources for approved projects requiring le	ess than one million dollars.			
FY 2015 Plans: Continue to provide resources for approved projects requiring le	ess than one million dollars.			
Title: SPICE 202 (CLASSIFIED)		2.444	0.431	
Description: Details are Classified.				
FY 2013 Accomplishments: Details are Classified.				
FY 2014 Plans: Details are Classified.				
Title: Advanced Weapons Enhanced by Submarine Unmanned	Aerial System against Mobile targets (AWESUM)	0.575	1.926	2.8
<b>Description:</b> AWESUM will deliver an undersea launched Unmexisting submarine three inch countermeasure launcher to perform and the potential for limited attack capabilities. This effort will sp (A2AD) perspective and the unique challenges to US Forces. It targets to support standoff weapon engagements, provide target Damage Assessment capabilities and provide Special Operation	orm targeting, Intelligence Surveillance and Reconnaissance pecifically address requirements from an Anti-Access Area D will enhance the ability to find, fix, target, and track maritime ting for long range torpedo engagements, enhance ISR and	e (ISR), enial		
FY 2013 Accomplishments: Tested a redesigned Switchblade Unmanned Aerial Vehicle (Unand UAS antenna. Integrated a multiple UAV control to provide demonstration event in a Tactical Development Exercise.				
FY 2014 Plans: Continue shipboard integration activities, increase UAV endural upgrades.	nce, encrypt UAV communications, and increase inert lethali	ty		
FY 2015 Plans:				

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015	
Conduct Operational Demonstration during an at-sea United Stacapabilities into a Program of Record. Complete the JCTD.	ates Fleet Forces Experimentation event. Transition AWESU	JM			
Title: FY 2014 Combatant Commands' (COCOM) Priorities		-	41.812	40.25	
<b>Description:</b> FY 2014 will be a transition year for the JCTD prodeveloping technologies that will support future threats and capprimarily work with the Combatant Commands (COCOMs) and sinitiatives that can be identified from the Chairman's Risk Assest DoD priorities. In addition, the JCTD Program will work with the process, to identify acquisition challenges facing the Department initiation of development and operational prototypes. Operation solid state technologies for maritime defense, advancements in layer (precision navigation and timing, communications, battle-s (Australian, Canadian, Department of Homeland security)). <b>FY 2014 Plans:</b> Fund the first year of FY 2014 projects selected by Senior Department shortfalls.	ability shortfalls. As a result, the FY 2014 JCTD Program wi Services to develop JCTD projects to address Defense stratesment or multi-service technology challenges in response to acquisition community, via the AT&L Defense Acquisition B at that can be addressed by the JCTD Program through the hall prototypes will focus in areas of concepts for space defendent counter electronic systems and space capability without a space awareness, international and interagency collaboration	II egic coard se, pace			
FY 2015 Plans:					
Fund the second year of the FY 2014 projects that are schedule	ed to proceed to a second year.				
Title: FY 2015 Combatant Commands (COCOM) Priorities		-	-	30.22	
<b>Description:</b> In FY 2015, the JCTD Program will seek a balanc priorities that support future threats and capability shortfalls, as Commands' (COCOMs') capability gaps and their most pressing COCOM-focused projects will be identified through the traditionathe JCTD Program will continue to develop JCTD projects to ad access / anti-denial, defense support to civil authorities, and coufocus in areas of concepts for space defense, solid state technology systems and space capability without a space layer (precision no international and interagency collaboration (Australian, Canadia)	well as traditional JCTD projects that address the Combatan g needs not being addressed by the Service programs. The al candidate identification and selection process. In addition dress broader Defense strategic initiatives in areas such as unter weapons of mass destruction. Operational prototypes wellogies for maritime defense, advancements in counter electroavigation and timing, communications, battle-space awarene	se , anti- vill <sup>c</sup> onic			
microal and microgorie, conduction (nactional, conduction	,		1		

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0400 / 3	PE 0603648D8Z / Joint Capability	Project (Number/Name) P648 I Joint Capability Techn Demonstration (JCTD)		nology	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015	
Fund the first year of the FY 2015 projects that are selected by and FY 2014. Work closely with the Joint Staff and the various engagements.					
Title: Body Wearable Antenna (BWA)		0.100	1.610	-	
<b>Description:</b> BWA will demonstrate a meta-material based anto by all service radio operators. BWA offers greater performance and survivability of the Warfighter. The prototype antenna will be enhanced features identified and addressed. BWA also predict positions versus current whip antennas, including the limiting prototaling over five pounds, necessary to cover the same communincreasing operator maneuverability by dispersing weight around lower radiation levels to the head compared to legacy antennas	and concealment than whip antennas, increasing the capabilities integrated onto the load-bearing belt with mission necessary is greater performance and signal strength at several different one position. BWA will replace four distinct whip antennas, inication band. BWA weighs three lbs creating a lighter load and the waist. Radiation patterns for BWA will demonstrate much	ty /			
FY 2013 Accomplishments: Initiated planning and concepts of operations development.					
FY 2014 Plans: Complete subsystem development: systems requirement defin verification testing; and, operational utility assessment. Comple					
Title: Coalition Tactical Awareness and Response (CTAR)		0.100	5.003	1.90	
<b>Description:</b> CTAR provides the capability to maintain adequal operating environments by sharing information to insure maritin wide area Synthetic Aperture Radar (SAR) field of view will be unresolution collection against vessels of interest.	ne security is maintained in national systems architecture. CT/				
FY 2013 Accomplishments:  Procured a commercial 2.4 meter X-band antenna and integrate downlink processor, universal image processor, ship detection:	ed it into the Mobile Ground Terminal (MGT) system with signa software application, communications suite and transportable	al			
shelter.					

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2013	FY 2014	FY 2015
Conduct functional demonstration of MGT receiving/processing SA and Border Control (CBP) Air Maritime Operations Center (AMOC) exercise in West Africa.					
FY 2015 Plans: Operate CTAR system at the Naval Research Laboratory to demorrequirements. Conduct CTAR JCTD operational demo in AFRICO					
Title: Dense Pack Access Retrieval and Transit (DPART)			0.100	2.632	2.31
<b>Description:</b> DPART will demonstrate a suite of remotely controlled material handling equipment (MHE) to selectively access wheeled/them throughout confined spaces (including ships underway, hang shore.	tracked vehicles and containers and omni-directionally m				
FY 2013 Accomplishments: Integrated wheeled propulsion to the existing flat surface Containe detailed design of the Autonomous Naval Transport, Large Wheele remote control for the system.					
FY 2014 Plans: Complete the wheeled propulsion integration effort to the Containe the system to transport loads up and down internal ship ramps. Differ the development of the full scale prototype of that system. Pursue use. Complete final in-house testing of the battery system and the One (TD-1).	PART will also conclude the design of the ANT-LWV and certification of the required Li-ion battery system for ship	begin board			
FY 2015 Plans: Complete the development and construction of the full scale protot Demonstration and Operational Utility Assessment on all systems.	type of the ANT-LWV, and conduct its Operational				
Title: Joint Biological Agent Decontamination System (JBADS)			0.100	2.956	0.57
<b>Description:</b> JBADS will provide biological decontamination by entechnique to significantly decontaminate the exterior/interior of a fulleap forward from the currently approved use of hot, soapy water wased biological disinfectants used for rolling stock but not permitted	ully encapsulated aircraft. The system provides a significativithout the corrosive properties inherent with commonly				

	UNCLASSIFIED				
Exhibit R-2A, RDT&E Project Justification: PB 2015 O	ffice of Secretary Of Defense		Date: M	larch 2014	
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)	me) Project (Number/Name) P648 I Joint Capability Technology Demonstration (JCTD)			gy
B. Accomplishments/Planned Programs (\$ in Millions		Γ	FY 2013	FY 2014	FY 2015
designed for aircraft, however, the building block approach infinite configurations to encapsulate contaminated equip	ch of the Thermal Decontamination Containment System allows for ment in the future				
	ided the hot/humid environment required for biological decontamina Unit. Began the design and construction phase of a stand-alone ri fully encapsulate a C-130 test aircraft.				
successfully demonstrate the capability to provide the en-	nit with the Thermal Decontamination Containment System and vironment needed to decontaminate an aircraft. Conduct the operations, Tactics, Techniques and Procedures, and doctrine change	ational			
FY 2015 Plans: Maintain a residual operational capability for biological de aircraft sizes.	econtamination that is also easily adaptable for rolling stock and oth	ner			
Title: Joint Operational Long Term Evolution Deployable	Tactical Cellular System (JOLTED TACTICS)		0.100	2.415	1.49
airborne, and/or maritime communications-on-demand pa	architecture for an interoperable, lightweight, portable, ground mobackages that allow users to quickly establish secure (Sensitive Butong Term Evolution (LTE) Line-of-Sight and Beyond-Line-Of-Sight quipment.	oile,			
FY 2013 Accomplishments: Initiated the JCTD and completed the Implementation Dirintegrated SBU capability.	rective. Conducted Technical Demonstration number one with an				
	integrated SBU capability and complete the Limited Operational Ut two and Operational Demonstration number two both with integrate				
FY 2015 Plans:					

	UNCLASSIFIED				
Exhibit R-2A, RDT&E Project Justification: PB 2015 Office of Sec	cretary Of Defense		Date: M	arch 2014	
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)	Project (Number/Name) P648 I Joint Capability Technology Demonstration (JCTD)			gy
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2013	FY 2014	FY 2015
Complete Information Assurance Certification; complete the Operat complete the JCTD.	ional Utility Assessment; deliver the JCTD Final Report,				
Title: Mobility			0.100	2.099	1.61
<b>Description:</b> Mobility allows the use of Commercial of the Shelf (CC domains using security enhanced thin-client applications and thick-common Mobility will provide the ability for classified and unclassified access Agency commercial cryptography. Access will be provided to mobil enterprise and expeditionary environments.	client solutions in sanctuary and expeditionary environme s on a single hand-held device with the use of National Se	ents.			
FY 2013 Accomplishments: Completed JCTD Implementation Directive, Management Plan, and	l Technical Transition Agreement.				
FY 2014 Plans: Integrate key technologies in unclassified networks. Obtain security Operational Demonstration number one.	y approval to operate on unclassified Network. Conduct				
FY 2015 Plans: Integrate key technologies on classified networks. Obtain security a Operational Demonstration Conduct operational user assessment, pand conduct close-out.		utility			
Title: Multi Domain Simultaneous Access Virtual Environment (MD-	-SAVE)		0.100	3.968	-
<b>Description:</b> MD-SAVE reduces overall networking infrastructure a utilizing one wire, while maintaining security separation. This solution SAVE leverages technology to enable the collapse of multi-tower war and a prototype exists. Current design will allow for the collapse of domain information flow. The result is a reduced multi-domain work and power at U.S. Central Command (USCENTCOM) Headquarters	on will reduce the total cost of ownership of the networks orkstations into one box. This approach is hardware-basf up to 16 domains, ensuring physical separation and no espace that is certified and accredited saving space, weigh	. MD- sed cross-			
FY 2013 Accomplishments:					
Conducted a technical demonstration at USCENTCOM demonstration	ing a Technology Readiness Level seven.				
FY 2014 Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2015 Office of			e: March 2014	
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)	Project (Numb P648 / Joint Ca Demonstration	logy	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 201	3 FY 2014	FY 2015
Conduct a Limited Utility Assessment (LUA) with multiple MD-S certification and accreditation (Secret and Below Information and demonstration to an enterprise network.				
Title: Signal Intelligence Derived Electromagnetic Spectrum (SI	DEST)	0.1	4.600	4.51
<b>Description:</b> SDEST will leverage National Security Agency (N (EMS) Target Folders (TF) providing a comprehensive view of t (OM) supporting Kinetic/Non-Kinetic targeting, utilizing data from Public Key Infrastructure (PKI), Smart Data Tagging and Cyberdissemination. It will deliver OMs via Electromagnetic Space All Network and Joint Worldwide Intelligence Communications Systailored to user-specified criteria.	the environment. It will compile relevant EMS Object Models in across the Global Cryptologic Enterprise. SDEST uses Corplicate the Corplication and Including the Corplication and Including Corplication and Including Corplication and Including Corplication and Including Corplication (E-Space) managed Secret Internet Protocol	s loud, Router		
FY 2013 Accomplishments: Initiated planning and concepts of operations development.				
FY 2014 Plans: Define information flow and data environment Identify information display capabilities (details are classified).	on needs for desired OM/TFs. Develop OM/TF delivery and			
FY 2015 Plans: Incorporate OM/TFs utilizing Cloud-based data processing and based query/subscription mechanism and thin client display/and		р-		
Title: Tactical Infrastructure Enterprise Services (TIES)		0.	2.300	1.61
<b>Description:</b> TIES provides capabilities to perform web service environment and the enterprise needs capabilities to pass data environment by delivering reference implementations for federa Management)); optimize D-DIL information exchange to US Arn Corps (USMC) and Special Operations Command and Control prioritization, synchronization, replication, and aggregation in the reference implementations to the Services tactical C2 systems to	to the Tactical Edge (TE). TIES enable this information shatted services: Collaboration (chat), Security Framework (Iderny (USA), US Air Force (USAF), US Navy (USN), US Marine (SOF C2) systems for exchanging data based compression, e D-DIL environment. TIES will transition these TE secured	ntity e		

Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)	P648 /	Project (Number/Name) P648 I Joint Capability Technology Demonstration (JCTD)			
B. Accomplishments/Planned Programs (\$ in Millions) Completed JCTD Implementation Directive Management Plan a	nd Technical Transition Agreement.	FY 2013 FY 2014	FY 2015			
FY 2014 Plans: Provide TE implementations for USA, USAF, USN, USMC C2 sy Operational Demonstration number one.	ystems to exchange data in D-DIL environment. Conduct					

### FY 2015 Plans:

Provide TE secured implementations. Provide TE implementation for Unclassified Information Sharing Service (UISS) to exchange information with USN ships in the D-DIL Operational. Conduct Operational Demonstration number two. Conduct operational user assessment. Complete the JCTD.

<b>Accomplishments/Planned Programs Subtotals</b>	138.374	152.408	131.960

Date: March 2014

#### C. Other Program Funding Summary (\$ in Millions)

N/A Remarks

#### \_\_\_\_\_

### D. Acquisition Strategy

JCTD capabilities that demonstrate operational utility transition to acquisition via one of several methods:

Exhibit R-2A, RDT&E Project Justification: PB 2015 Office of Secretary Of Defense

- The capabilities address a documented capability gap in an existing Program of Record, so that the existing Program can acquire, further develop, sustain, and provide the capability under existing program documentation.
- The capabilities address capability gaps that naturally fit with an existing Program of Record, but program documentation addressing the new capabilities does not exist. In these cases, existing program documentation (such as the Capabilities Development Document or Capabilities Production Document) is revised to include the new capabilities from the JCTD, and the JCTD capabilities transition to the Program of Record.
- The capabilities address a current operational need without requiring Program of Record changes. In these cases, the JCTD capabilities may transition directly to operational use, with sustainment (operations and maintenance) funding arranged through the gaining command.
- The capabilities may be widely applicable commodity products, useful to many commands. In these cases, the commodity products listed on General Services Administration schedule, and made available for purchase by any commands needing the capability, using procurement funds.

#### **E. Performance Metrics**

Strategic Goals Supported in FY 2015:

- Project Selection Focus
- Spiral Technologies to Fielded Capabilities
- Time to Final Demonstration
- 70 Percent Transition Rate

Exhibit R-2A, RDT&E Project Justification: PB 2015 Office of Secretary Of D	efense		Date: March 2014
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
0400 / 3	PE 0603648D8Z I Joint Capability	P648 / Joir	nt Capability Technology
	Technology Demonstration (JCTD)	Demonstra	tion (JCTD)

- Adequately Shared Funding and Visibility
- Independent Assessment Capability
- Successful Military Utility Assessment (MUA)

The majority of funding from this program element is forwarded to the Services/Defense Agencies that execute the individual JCTD projects. The Director, JCTD Program, maintains and provides overall programmatic oversight for the JCTD program, to include the individual JCTD projects. The JCTD performance metrics center on how fast relevant joint and/or transformational technologies can be demonstrated and provided to the joint warfighter. These metrics are driven by the overall business process which includes six parts: (1) selection focus; (2) ability to spin-off spiral technologies; (3) time necessary to complete a final demonstration; (4) adequately resourced projects with appropriate oversight; (5) capability to complete an independent assessment of the technology; and (6) the number of successful capabilities that are actually transitioned to the warfighter.

MEASURABLE OUTCOMES: Metrics include: all JCTDs will deliver products within 12 months to enable assessment for project continuation; 50 percent of JCTDs will provide an operationally-relevant prototype within 12 months and 75 percent will complete final demonstration within 24 months of Implementation Directive signature. JCTDs will spiral products and deliverables during the demonstration. At least 75 percent of JCTD projects will transition products to Programs of Record (POR), sustained residual operations, or availability for procurement from the General Services Administration Schedule.

Transition Achievement: The JCTD program has been achieving actual transition rates of over 80 percent, well in excess of the Assistant Secretary of Defense (Research and Engineering) stated goal of 40 percent. The JCTD Program defines transition as all or components of the demonstrated JCTD going to a new or existing POR, providing fieldable-prototypes (residual capabilities) sustained by non-JCTD funds in direct support of operations, or commodity-type capabilities entered onto GSA schedule for procurement by Department users. In FY 2013, 12 of 12 completions successfully transitioned.

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2015 C	Office of Sec	retary Of D	efense					Date: Mare	ch 2014	
Appropriation/Budget Activity 0400 / 3	Activity					` ' ' ' '			Project (Number/Name) P264 I Disruptive Demonstrations			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO <sup>#</sup>	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
P264: Disruptive Demonstrations	-	-	12.600	-	-	-	-	-	-	-	Continuing	Continuing

<sup>&</sup>lt;sup>#</sup> The FY 2015 OCO Request will be submitted at a later date.

#### Note

The "Disruptive Demonstrations" Program code was inserted to support development/demonstration of time-sensitive capabilities that address Secretary/ Department Strategic Vectors, and Chairman's Gap Assessment of capability shortfalls. As a result, we anticipate less partner funding for those strategic investment areas and will have to rely on greater partner funding for other JCTD projects. Overall we envision fewer JCTD projects that will be longer in duration.

In FY 2015, funds will be transferred from the JCTD Program Element to PE 0603289D8Z (Advanced Innovative Analysis & Concepts).

### A. Mission Description and Budget Item Justification

The program will allocate a portion of the JCTD funding for Disruptive Demonstrations to solve priority shortfalls identified by Department Senior Leadership and the Chairman's Gap Assessment..

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: Disruptive Demonstrations	-	12.600	-
<b>Description:</b> In FY 2014, the department will allocate a portion of the Joint Capability Technology Demonstration funding line to technology demonstrations specifically aligned to the Department's strategic vectors (Asian-Pacific, low cost, small footprint operations) and the Chairman's Gap Assessment for capability shortfalls. As part of The Strategic Capabilities Office development efforts, analysis and demonstration of diagnostics for Department of Defense networks; cognitive Intelligence, Surveillance, and Reconnaissance tools to enhance Theater Security Cooperation Plan activities; Command and Control tools for pre- and post-conflict periods; and enhanced Operations Security procedures to protect critical acquisition and operational data will be developed to meet Combatant Command urgent operational requirements. Due to nature of this project, specific descriptions and detailed plans are available at higher classification levels.			
FY 2014 Plans: As part of Strategic Capabilities Office development efforts, analysis, prototyping, and subsystem testing of game-changing uses of existing technologies will be conducted to meet a critical Combatant Commander requirement. These efforts include:			
<ul> <li>Completing Preliminary Design Reviews of four prototype designs,</li> <li>Completing approximately 100 subsystem data collections to develop high-fidelity models,</li> <li>Completing proof-of-principle demonstrations of four prototype systems to anchor high-fidelity modeling and simulation,</li> </ul>			

Exhibit K-2A, KD1&E Project Justification. PB 2013 Office of Secre	etally Of Defense		Date. N	naich 2014		
Appropriation/Budget Activity 0400 / 3	R-1 Program Element (Number/Name) PE 0603648D8Z I Joint Capability Technology Demonstration (JCTD)	, ,	oject (Number/Name) 64 / Disruptive Demonstrations			
B. Accomplishments/Planned Programs (\$ in Millions)	Accomplishments/Planned Programs (\$ in Millions)  Completing mission-level analysis of system effectiveness in partnership with the Combatant Commands.					
Due to nature of these efforts, specific descriptions and detailed plans	•					

**Accomplishments/Planned Programs Subtotals** 

#### C. Other Program Funding Summary (\$ in Millions)

Exhibit R-24 RDT&F Project Justification: PR 2015 Office of Secretary Of Defense

N/A

#### Remarks

#### D. Acquisition Strategy

The primary acquisition strategy for funding Disruptive Demonstrations will be through Military Inter-Departmental Purchase Requests (MIPRS). The specifics of each MIPR will be dependent upon the development center, laboratory, contractor or agency requirements and needs. If an Inter-Agency agreement is required, compliance and coordination of the agreement will be completed in coordination with the receiving activity and Federal Acquisition Regulation 17.5.

#### E. Performance Metrics

Performance metrics are specific to each Disruptive Demonstration effort and include measures identified in the management approach, Statement of Work (SOW) and Period of Performance (POP). In addition, completions and successes are monitored against schedules and deliverables stated in the initiative's management approach. Generic performance metrics applicable to the RDT&E initiatives includes attainment of DoD Strategic Objective 3.5.2D. The title of this objective is "Maintain a strong technical foundation within the Department's Science and Technology (S&T) program" and the metrics for this objective is to transition 40 percent of completing demonstration programs per year.

Date: March 2014

12.600