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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretary Of Defense	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>					PE 0603121D8Z: <i>SO/LIC Advanced Development</i>							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013[#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	44.186	26.324	19.420	-	19.420	9.889	0.000	0.000	0.000	Continuing	Continuing
206: <i>Explosive Ordnance Disposal/Low-Intensity Conflict</i>	-	7.520	4.544	3.374	-	3.374	1.718	0.000	0.000	0.000	Continuing	Continuing
207: <i>Special Reconnaissance Capabilities</i>	-	20.461	12.239	8.963	-	8.963	4.564	0.000	0.000	0.000	Continuing	Continuing
208: <i>Information Dissemination Concepts</i>	-	3.175	1.919	1.425	-	1.425	0.725	0.000	0.000	0.000	Continuing	Continuing
209: <i>Irregular Warfare Support (IWS)</i>	-	13.030	7.622	5.658	-	5.658	2.882	0.000	0.000	0.000	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

P206, Explosive Ordnance Disposal/Low-Intensity Conflict (EOD/LIC). The EOD/LIC Program develops and delivers advanced capabilities for military Explosive Ordnance Disposal (EOD) operators and Special Operations Forces (SOF) to meet the challenges of improvised explosive devices (IEDs), force protection, and the war on terrorism. EOD/LIC efforts focus in two areas: support to SOF to combat terrorism; and access, detection, identification, and neutralization of all types of conventional explosive ordnance and improvised explosive devices. Requirements submitted by the Joint Service EOD and Service Special Operations communities are prioritized and approved by OASD (SO/LIC). With a decreased budget, CTTSO will proceed with The Improvised Device Defeat (IDD) subgroup expanding its inclusion of joint service EOD operators in its efforts since the Department's announcement to cancel PE 0603121D8Z. IDD will absorb the appropriate joint service EOD requirements for prioritization and interagency coordination going forward. IDD will use the limited resources it possesses to provide the broadest possible capability improvement to the community.

P207, Special Reconnaissance Capabilities (SRC). The SRC Program exploits, leverages, and integrates DoD's service and agency efforts to improve surveillance and reconnaissance tools (unattended sensors, tagging and tracking devices, data infiltration/exfiltration, remote delivery, and mobility/delivery of sensors), while providing risk reduction for DoD and other agency technology and development programs. The SRC Program identifies, integrates, and operationalizes the technical tools for the collection of actionable information against a variety of targets and mission requirements, including emerging requirements , and maintains DoD's on-line catalog of tools in order to minimize crisis response time for special reconnaissance and surveillance.

P208, Information Dissemination Concepts (IDC). The IDC Program addresses technology capabilities necessary to enable sustained information dissemination campaigns in denied areas. The IDC program, working as necessary with DoD and the interagency, develops, modifies, and demonstrates concepts, mechanisms, platforms and payloads to propagate themes and messages that convince target audiences to take action favorable to the United States and its allies. The

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APPROPRIATION/BUDGET ACTIVITY

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

R-1 ITEM NOMENCLATURE

PE 0603121D8Z: *SO/LIC Advanced Development*

Surveillance, Collection, and Operations Support (SCOS) subgroup has managed the IDC project for CTTSO since gaining oversight of the funding. The language program orchestrated by SCOS will remain, albeit with a drastic reduction in funding without PE 0603121D8Z.

P209, Irregular Warfare Support (IWS). The IWS Program (IWSP) develops adaptive and agile capabilities and methodologies to support irregular warfare in the current and evolving strategic environments. IWSP supports joint, interagency, and other partners who conduct or counter irregular warfare through indirect and asymmetric approaches, though they may employ a full range of military and other capabilities, in order to erode an adversary's power, influence, and will. Solutions include material and non-material operational analysis, concept development, field experimentation, and delivery of capabilities, to defeat the motivations, sanctuaries, and enterprises of targeted state and non-state actors. As evidenced by every applicable Defense and National Security strategy document, (e.g., 2012 Defense Strategic Guidance (DSG), "Sustaining U.S. Global Leadership: Priorities for 21st Century Defense, Irregular Warfare capabilities are vital to U.S. security. CTTSO, in coordination with the ASD (SO/LIC), is in the process of reviewing options to continue the IWS capability that is critical to the combating terrorism community.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014 Base</u>	<u>FY 2014 OCO</u>	<u>FY 2014 Total</u>
Previous President's Budget	44.199	26.324	19.544	-	19.544
Current President's Budget	44.186	26.324	19.420	-	19.420
Total Adjustments	-0.013	0.000	-0.124	-	-0.124
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-0.013	-	-0.124	-	-0.124

Change Summary Explanation

The FY 2014 baseline budget was reduced due to fiscal constraints and higher priorities within the Department.

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of Defense										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)					R-1 ITEM NOMENCLATURE PE 0603121D8Z: SO/LIC Advanced Development				PROJECT 206: Explosive Ordnance Disposal/Low-Intensity Conflict			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
206: Explosive Ordnance Disposal/Low-Intensity Conflict	-	7.520	4.544	3.374	-	3.374	1.718	0.000	0.000	0.000	Continuing	Continuing
[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012 ^{##} The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
P206, Explosive Ordnance Disposal/Low-Intensity Conflict (EOD/LIC). The EOD/LIC Program develops and delivers advanced capabilities for military Explosive Ordnance Disposal (EOD) operators and Special Operations Forces (SOF) to meet the challenges of improvised explosive devices (IEDs), force protection, and the war on terrorism. EOD/LIC efforts focus in two areas: support to SOF to combat terrorism; and access, detection, identification, and neutralization of all types of conventional explosive ordnance and improvised explosive devices. Requirements submitted by the Joint Service EOD and Service Special Operations communities are prioritized and approved by OASD (SO/LIC). With a decreased budget, CTTSO will proceed with The Improvised Device Defeat (IDD) subgroup expanding its inclusion of joint service EOD operators in its efforts since the Department’s announcement to cancel PE 0603121D8Z. IDD will absorb the appropriate joint service EOD requirements for prioritization and interagency coordination going forward. IDD will use the limited resources it possesses to provide the broadest possible capability improvement to the community.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Title: Explosive Ordnance Disposal/Low-Intensity Conflict (EOD/LIC)										7.520	4.544	3.374
Description: P206, Explosive Ordnance Disposal/Low-Intensity Conflict (EOD/LIC). The EOD/LIC program develops and delivers advanced capabilities for military EOD operators and Special Operations Forces (SOF) to meet the challenges of improvised explosive devices (IEDs), force protection, and the war on terrorism. EOD/LIC efforts focus in two areas: support to SOF to combat terrorism; and access, detection, identification, and neutralization of all types of conventional explosive ordnance and improvised explosive devices. Requirements submitted by the Joint Service EOD and Service Special Operations communities are prioritized and approved by Office of the Assistant Secretary of Defense (OASD)(SO/LIC).												
FY 2012 Accomplishments: Efforts were focused on Countering Improvised Explosive Devices (C-IED) and Electronic Countermeasures (ECM). Evaluated and validated an electronic countermeasures system for suppression of radio frequencies of radio controlled improvised explosive devices without interrupting friendly and benign communications. Develop an electromagnetic, non-lethal capability to disrupt outboard engines of small craft. Developed a global database of commercially manufactured electro–explosive devices, beginning with electric detonators containing characteristics to assist with identification and vulnerability assessment for future research and development efforts. Developed a method to deliver explosive charges that are deployable by mobile platforms												

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>		R-1 ITEM NOMENCLATURE PE 0603121D8Z: <i>SO/LIC Advanced Development</i>	PROJECT 206: <i>Explosive Ordnance Disposal/Low-Intensity Conflict</i>
B. Accomplishments/Planned Programs (\$ in Millions) and established protocols for effectively neutralizing defined IED threats. Evaluated a lightweight, back-packable robot for use in counter improvised explosive device operations in austere locations. <i>FY 2013 Plans:</i> Efforts will focus on tools and equipment to enhance situational awareness and operational capability during incident response, render safe or direct action operations. Demonstrate a remote missile launch pod module to provide a precision engagement capability on unmanned surface vehicles or other small craft. Continue development of an electromagnetic, non-lethal capability to disrupt outboard engines of small craft. Design a compact, high-power next generation x-ray generator for EOD use. Develop common test standards and assessment methods for the full spectrum of EOD disruptors. Develop techniques and concept render safe tool(s) capable of achieving high order or low order disposal of insensitive high explosive (IHE) munitions. Develop small, directional antennas to improve gain and bandwidth and extend frequencies down into the UHF TACSAT and JTRS bands. Demonstrate a method to deliver explosive charges that are deployable by mobile platforms and protocols for effectively neutralizing defined IED threats. Develop a Smartphone application and distribution system for EOD and Public Safety Bomb Technicians that provides immediate on-site access to required technical and tactical information. Develop a suite of tools for Render Safe Procedures against underwater explosive devices. Develop a multi-purpose advanced tactical timer. <i>FY 2014 Plans:</i> Efforts will focus on tools and equipment to enhance situational awareness and operational capability during incident response, render safe or direct action operations. Demonstrate an electromagnetic, non-lethal capability to disrupt outboard engines of small craft. Evaluate a compact, high-power next generation x-ray generator for EOD use. Demonstrate techniques and concept render safe tool(s) capable of achieving high order or low order disposal of insensitive high explosive (IHE) munitions. Demonstrate small, directional antennas to improve gain and bandwidth and extend frequencies down into the UHF TACSAT and JTRS bands. Validate common test standards and assessment methods for the full spectrum of EOD disruptors. Demonstrate a Smartphone application and distribution system for EOD and Public Safety Bomb Technicians that provides immediate access to required technical and tactical information. Demonstrate a suite of tools for Render Safe Procedures against underwater explosive devices. Demonstrate and evaluate a multi- purpose advanced tactical timer.		FY 2012	FY 2013
Accomplishments/Planned Programs Subtotals		7.520	4.544
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy N/A			

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603121D8Z: <i>SO/LIC Advanced Development</i>	PROJECT 206: <i>Explosive Ordnance Disposal/Low-Intensity Conflict</i>
<u>E. Performance Metrics</u> N/A		

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APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE				PROJECT			
0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)					PE 0603121D8Z: SO/LIC Advanced Development				207: Special Reconnaissance Capabilities			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
207: Special Reconnaissance Capabilities	-	20.461	12.239	8.963	-	8.963	4.564	0.000	0.000	0.000	Continuing	Continuing
[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
^{##} The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
Special Reconnaissance Capabilities (SRC). The SRC Program exploits, leverages, and integrates DoD’s service and agency efforts to improve surveillance and reconnaissance tools (unattended sensors, tagging and tracking devices, data infiltration/exfiltration, remote delivery, and mobility/delivery of sensors), while providing risk reduction for DoD and other agency technology and development programs. The SRC Program identifies, integrates, and operationalizes the technical tools for the collection of actionable information against a variety of targets and mission requirements, including emerging requirements , and maintains DoD’s on-line catalog of tools in order to minimize crisis response time for special reconnaissance and surveillance.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Title: SPECIAL RECONNAISSANCE CAPABILITIES (SRC).										20.461	12.239	8.963
Description: P207, Special Reconnaissance Capabilities (SRC). The primary objective of the SRC program is to seek out and identify technical tools for the collection of actionable data and information which will assist DoD in its execution of operations against violent extremist organizations. To accomplish this objective, the program leverages emerging and existing developmental technologies from government and commercial ventures and operationalizes them to meet near term reconnaissance and surveillance operational requirements. The operational tools transition unattended sensors, tagging devices, data transfer, remote delivery, and mobility/delivery of sensors into established Programs of Record throughout the DoD. The program evaluates new and existing technical surveillance technologies and incorporates results into a reference database for future access.												
FY 2012 Accomplishments:												
SRC continued to identify, develop, integrate, and field promising persistent intelligence, surveillance, and reconnaissance (ISR) advanced technologies and capabilities. High payoff technologies that have been researched and transitioned include: audio and optical technologies; improvement in flexibility and accuracy through integration of disparate technologies into single devices; ultra high speed data processing and transmission; next-generation nanotechnology/miniaturization; affordable Application Specific Integrated Circuit (ASIC) technology; low profile enhanced micro-optics; next-generation precision Hostile Forces Tagging, Tracking, and Locating capabilities; low profile, advanced material miniature antennas; placement and concealment of unattended ground sensors; and low power, high bandwidth data transmission sub-systems.												
FY 2013 Plans:												

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603121D8Z: <i>SO/LIC Advanced Development</i>	PROJECT 207: <i>Special Reconnaissance Capabilities</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
Continue to identify, develop, integrate, and field promising persistent intelligence, surveillance, and reconnaissance (ISR) advanced technologies and capabilities. High payoff technologies that will be researched and transitioned include: audio and optical technologies; improvement in flexibility and accuracy through integration of disparate technologies into single devices; ultra high speed data processing and transmission; next-generation nanotechnology/miniaturization; affordable Application Specific Integrated Circuit (ASIC) technology; low profile enhanced micro-optics; next-generation precision Hostile Forces Tagging, Tracking, and Locating capabilities; low profile, advanced material miniature antennas; placement and concealment of unattended ground sensors; and low power, high bandwidth data transmission sub-systems. <i>FY 2014 Plans:</i> Continue to identify, develop, integrate, and field promising persistent intelligence, surveillance, and reconnaissance (ISR) advanced technologies and capabilities. High payoff technologies that will be researched and transitioned include: audio and optical technologies; improvement in flexibility and accuracy through integration of disparate technologies into single devices; ultra high speed data processing and transmission; next-generation nanotechnology/miniaturization; affordable Application Specific Integrated Circuit (ASIC) technology; low profile enhanced micro-optics; next-generation precision Hostile Forces Tagging, Tracking, and Locating capabilities; low profile, advanced material miniature antennas; placement and concealment of unattended ground sensors; and low power, high bandwidth data transmission sub-systems.			
Accomplishments/Planned Programs Subtotals		20.461	12.239
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
N/A			
E. Performance Metrics			
N/A			

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0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)					PE 0603121D8Z: SO/LIC Advanced Development				208: Information Dissemination Concepts			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
208: Information Dissemination Concepts	-	3.175	1.919	1.425	-	1.425	0.725	0.000	0.000	0.000	Continuing	Continuing
[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
^{##} The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
P208, Information Dissemination Concepts (IDC). The IDC Program addresses technology capabilities necessary to enable sustained information dissemination campaigns in denied areas. The IDC program, working as necessary with DoD and the interagency, develops, modifies, and demonstrates concepts, mechanisms, platforms and payloads to propagate themes and messages that convince target audiences to take action favorable to the United States and its allies. The Surveillance, Collection, and Operations Support (SCOS) subgroup has managed the IDC project for CTTSO since gaining oversight of the funding. The language program orchestrated by SCOS will remain, albeit with a drastic reduction in funding without PE 0603121D8Z.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Title: INFORMATION DISSEMINATION CONCEPTS										3.175	1.919	1.425
Description: Respond to emerging needs for advanced language solutions in the operational environment including data exploitation and analysis of information in languages other than English and technology to enhance language proficiency and cultural skills.												
FY 2012 Accomplishments: Enhanced language learning tools capabilities. Adapted and integrated existing foreign language applications, practices, and tools into a tactical site exploitation capability. Improved the timely collection of intelligence and evidence to support follow-on targeting, effective detainee prosecution, and theater-wide exploitation of tactical intelligence. Deployed capabilities to enrich language packet creation with a variety of media sources. Delivered a capability that supports the automated inbound and outbound integration of available video and audio sources. Developed novel approaches to query, track, and exploit multimedia from broadcast, radio, offline videos, and web sources.												
FY 2013 Plans: Develop tools that assist the military in foreign language training courses. Improve foreign language applications, practices, and tools that are deployed in theater. Expedite methods of collecting and analyzing media sources and evidence more efficiently and timely. Enhance triage capabilities to store, organize, and query multimedia acquired from various sources. Deploy automated technologies capable of ingesting and translating video and audio sources for analysts to effectively report intelligence findings.												
FY 2014 Plans:												

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
Enhance cultural and language technologies for military educational purposes. Implement multilingual and multimedia technologies in support of language learning for operational deployment. Rapidly exploit speech from large volumes of sources in foreign languages. Deliver analytic and linguistic tools for operators. Field capabilities for collecting and analyzing media sources and evidence.			
Accomplishments/Planned Programs Subtotals		3.175	1.919
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy N/A			
E. Performance Metrics N/A			

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0400: Research, Development, Test & Evaluation, Defense-Wide BA 3: Advanced Technology Development (ATD)					PE 0603121D8Z: SO/LIC Advanced Development				209: Irregular Warfare Support (IWS)			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
209: Irregular Warfare Support (IWS)	-	13.030	7.622	5.658	-	5.658	2.882	0.000	0.000	0.000	Continuing	Continuing
[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
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A. Mission Description and Budget Item Justification												
P209, Irregular Warfare Support (IWS). The IWS Program (IWSP) develops adaptive and agile capabilities and methodologies to support irregular warfare in the current and evolving strategic environments. IWSP supports joint, interagency, and other partners who conduct or counter irregular warfare through indirect and asymmetric approaches, though they may employ a full range of military and other capabilities, in order to erode an adversary’s power, influence, and will. Solutions include material and non-material operational analysis, concept development, field experimentation, and delivery of capabilities, to defeat the motivations, sanctuaries, and enterprises of targeted state and non-state actors. As evidenced by every applicable Defense and National Security strategy document, (e.g., 2012 Defense Strategic Guidance (DSG), “Sustaining U.S. Global Leadership: Priorities for 21st Century Defense, Irregular Warfare capabilities are vital to U.S. security. CTTSO, in coordination with the ASD (SO/LIC), is in the process of reviewing options to continue the IWS capability that is critical to the combating terrorism community.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2012	FY 2013	FY 2014
Title: IRREGULAR WARFARE SUPPORT (IWS)										13.030	7.622	5.658
Description: P209, Irregular Warfare Support (IWS). The IWS Program (IWSP) develops adaptive and agile capabilities and methodologies to support irregular warfare in the current and evolving strategic environments. IWSP supports joint, interagency, and other partners who conduct or counter irregular warfare through indirect and asymmetric approaches, though they may employ a full range of military and other capabilities, in order to erode an adversary’s power, influence, and will. Solutions include material and non-material operational analysis, concept development, field experimentation, and delivery of capabilities, to defeat the motivations, sanctuaries, and enterprises of targeted state and non-state actors.												
FY 2012 Accomplishments:												
Initiated a critical training capability within a matter of months in response to “green on blue” attacks on ISAF personnel. Developed an Advanced Situational Awareness Capability that included instructor-led training and supporting publications for tactical unit leaders at the Maneuver Center of Excellence, Ft. Benning, GA. Modeled on the groundbreaking United States Marine Corps “Combat Hunter” program, this capability led to trained units achieving the highest IED discovery rates in the OEF theater and saving coalition lives. Expanded and enhanced Project LEGACY, significantly improving host-nation police counterinsurgency and military intelligence capabilities. Initiated a spiral effort of Legacy to institutionalize within U.S. Forces and the Interagency the capability developed by the Legacy Program to deliver police/military investigative training to host nation security forces. Expanded Project LOCHAN, increasing												

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
Special Operations Forces (SOF), Interagency, and Partner Nation Irregular Warfare knowledge management, communications and C2 capability through rapid adaptation, experimentation and fielding of Commercial off the Shelf (COTS)/ Government off the Shelf (GOTS) software, hardware tools and novel concepts. Fielded a cross-platform communication capability known as MutualLink in support of International Security and Assistance Force (ISAF) and SOF, enabling any coalition or host-nation communication device to communicate in OEF and Jackal Stone (combined SOF exercises). Transitioned the MutualLink technology to end users as their standard cross-platform communications solution. Initiated Project HOPLITE, which prototyped Digital Joint Task Force capabilities for Theater Special Operations Commands (TSOCs) that enables sub-SIPR and BICES, unconstrained but highly secure operational collaboration for mission effect. Explored new concepts for non-standard aviation support to SOF in Irregular Warfare environments, to include low cost aviation support for small units in remote and austere environments. Developed and expanded a Countering Violent Extremism community of interest, resulting in three new R&D projects that will be initiated in FY13 that represent the mutual/overlapping research interests of disparate Interagency and DoD partners. Developed Enhanced Cultural Support Team training which will allow for development of capability and skill sets for female operators to better engage with indigenous populations in support of Village Stability Operations (VSO) and other missions as required. Researched and developed threat group assessments based on open source information that allows operators and decision makers to understand the threats associated within their various areas of operation globally and how these threat groups affect the global security of the US and its allies. Developed an effort that integrated and fused heterogeneous social media data for use in strategic and tactical operational planning and preparation of the battlefield in support of large international events. This effort provided real time data and analysis capability along with mentorship and training that allowed for end-users to understand and monitor critical events in open source social media. Initiated development of frameworks and training to better understand and implement Combatant Command (COCOM) level Communication Activities. Known as CERTAIN ECHO, this effort delivered Return on Investment Analytic Framework(s) for the COCOM VOICE Programs in order to provide quantifiable measurements of performance, measurements of effectiveness and methods of determining overall return on investment (ROI) of program dollars. Additionally, this effort developed and delivered training designed to equip decision makers and operators with the knowledge and skills necessary to properly utilize population data and avoid common traps and risks in order to assess and appropriately interpret the population research required in support of these Communications Activities. FY 2013 Plans: Continuing under IW Joint Operational Concept (JOC 2.0) and DODD 3000.07 on IW, the IWS Program will continue the research and development path in order to conduct operational analysis, concept design, and pilot-project experimentation efforts in support of 2010 QDR and current NSS/NSCT lines of engagements. Deploy training capability and transition a program of record a counter- "green on blue" capability for ISAF and U.S. forces to help warfighters detect and mitigate insider threat attacks in partner, COIN and contingency operations. Conduct research and analysis to assist in further development and enhancement			

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 ITEM NOMENCLATURE PE 0603121D8Z: <i>SO/LIC Advanced Development</i>	PROJECT 209: <i>Irregular Warfare Support (IWS)</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013
of training capabilities aimed at preventing green on blue violence, a serious issue that undercuts efforts at training host nation security forces, one of the pillars of Irregular Warfare. Continue to support an Advanced Situational Awareness Capability that includes instructor-led training and supporting publications for tactical unit leaders at the Maneuver Center of Excellence, Ft. Benning, GA. This capability led to trained units achieving the highest IED discovery rates in the OEF theater and saving coalition lives. Continue to support Project LEGACY, significantly improving host-nation police counterinsurgency and military intelligence capabilities. Continue the spiral effort of Legacy was initiated to provide training that institutionalizes within U.S. Forces and the Interagency the capability developed by the Legacy Program to deliver police/military investigative training to host nation security forces. Assess relevance and applicability of specialized Security Force Assistance doctrine and operational approach for environments outside Operation Enduring Freedom. Continue to elicit and refine requirements for users within rapid assessment framework in order to successfully pair SOF and Interagency users with off the shelf, high performance technologies and novel capabilities that fulfill specific requirements to share and analyze operational data better and faster. Continue to develop analysis to pursue, prevent and deter conflict through analysis that supports U.S. diplomatic and development efforts to foster a range of governance efforts to counter radicalization, including working with civilian agencies on security assistance and police training programs. Continue to develop and conduct Enhanced Cultural Support Team training which allows female operators to better engage with indigenous populations in support of Village Stability Operations (VSO) and other missions as required. Continue research and development of threat group assessments based on open source information that allows operators and decision makers to understand the threats associated within their various areas of operation globally and how these threat groups affect the global security of the US and its allies. Continue to Develop and expand an effort that integrates and fuses heterogeneous social media data for use in strategic and tactical operational planning and preparation of the battlefield with new end users and different support environments. This effort provides real time data and analysis capability along with mentorship and training that provides end-users with a methodology and the necessary tools to understand and monitor critical events in open source social media. Continue to develop frameworks and training to better understand and implement Combatant Command (COCOM) level Communication Activities. Deliver Return on Investment Analytic Framework(s) for the COCOM VOICE Program in order to provide quantifiable measurements of performance, measurements of effectiveness and methods of determining overall return on investment (ROI) of program dollars. Additionally, this effort will deliver training designed to equip decision makers and operators with the knowledge and skills necessary to properly utilize population data and avoid common traps and risks in order to assess and appropriately interpret the population research required in support of these Communications Activities. Conduct deep-dive research and analysis aimed at defining today's and the near future's typology of adversaries, their capabilities, intentions, use of terrain, weapons, technologies, proliferation schemes, U.S. technology and operational advantages adversaries will work to offset, and what the U.S. should be looking for to be better prepared when it faces off with these types of threats. Assist with further development and understanding of the US Marine Corps concept of the Intelligence Driven Combat. Develop and test enhanced MISO/PSYOP capabilities in planning, targeting and execution for support to special and unconventional warfare			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of Defense		DATE: April 2013		
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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
mission requirements. Explore the opportunities and challenges posed by advanced additive manufacturing technologies for U.S. efforts to combat terrorism and confront irregular threats. Research and develop enhanced mobile capabilities for assessing and surveying assault and landing zones to support small units conducting distributed operations in remote and austere environments (to include resupply/drop zones, refueling, and helicopter landing zones). Conduct research, development, operational analysis, and field experimentation of efforts intended to counter emerging and extant threats in the intersection of the digital-physical domains (such as understanding the usage of social media by transnational criminal organizations in order to predict changes in support and influence; measures of effectiveness of social media and understanding how to use this media for intended effects). Initiate the Secure Unclassified Network (SUNet), which will provide protected dynamic enclaves of capability for multi-agency users (TSOCs, Law Enforcement, Coalition, and Foreign Nationals) in order to provide inter-organizational collaborative areas and enhanced capabilities of data upload, searching and sharing from headquarters down to smartphones, tablets or laptops. FY 2014 Plans: Continue research and development of material and non-material solutions, promising capabilities, and continuation of project development, delivery, and transition to support the Department of Defense and Interagency Irregular Warfare mission. Research, design and spiral development of program to assist military commands in building host-nation intelligence capacity and capability to include the feasibility of migrating to other areas of operation the unique doctrine and lessons learned during support to Operation Iraqi Freedom and Operation Enduring Freedom (LEGACY). Deliver enhanced mobile capabilities for assessing and surveying assault and landing zones to support small units conducting distributed operations in remote and austere environments (to include resupply/drop zones, refueling, and helicopter landing zones). Deliver research, operational analysis, and field experimentation of multiple efforts intended to counter emerging and extant threats in the intersection of the digital-physical domains (e.g. understanding the usage of social media by transnational criminal organizations in order to predict changes in support and influence; measuring the of effectiveness of social media and understanding how to use this media for intended effects). Continue to develop and deliver Secure Unclassified Network (SUNet) which provides a unique virtualization of a single hardware suite of servers and software that will provide protected dynamic enclaves of capability for multi-agency users (TSOCs, Law Enforcement, Coalition, and Foreign Nationals). This effort enables an inter-organizational collaborative area and enhanced capabilities of data upload, searching and sharing from headquarters down to smartphones, tablets or laptops. Research, develop, test and evaluate material and non-material solutions that build and/or enhance Military Information Support Operations (MISO) forces' capabilities that are essential to unconventional warfare missions.				
Accomplishments/Planned Programs Subtotals		13.030	7.622	5.658
C. Other Program Funding Summary (\$ in Millions)				
N/A				

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C. Other Program Funding Summary (\$ in Millions)		
<u>Remarks</u>		
<u>D. Acquisition Strategy</u> N/A		
<u>E. Performance Metrics</u> N/A		