



Coalition Warfare Program presentation to: 2009 EUCOM/AFRICOM Science and Technology Conference

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Overview



Purpose of the Coalition Warfare Program

- Coalition Warfare Program provides **funds** on a **competitive** basis to projects that conduct **collaborative RDT&E** with **foreign government** partners.
- Why?
 - Global Security requires strong partners and partnerships
 - Effective coalitions require a high degree of interoperability
 - Solutions to warfighter problems can be developed better, cheaper, and faster by leveraging partner expertise and resources.
 - ...and yet, COCOMs, Services, and Agencies do not always program for international partnerships and interoperability



Coalition Warfare Team

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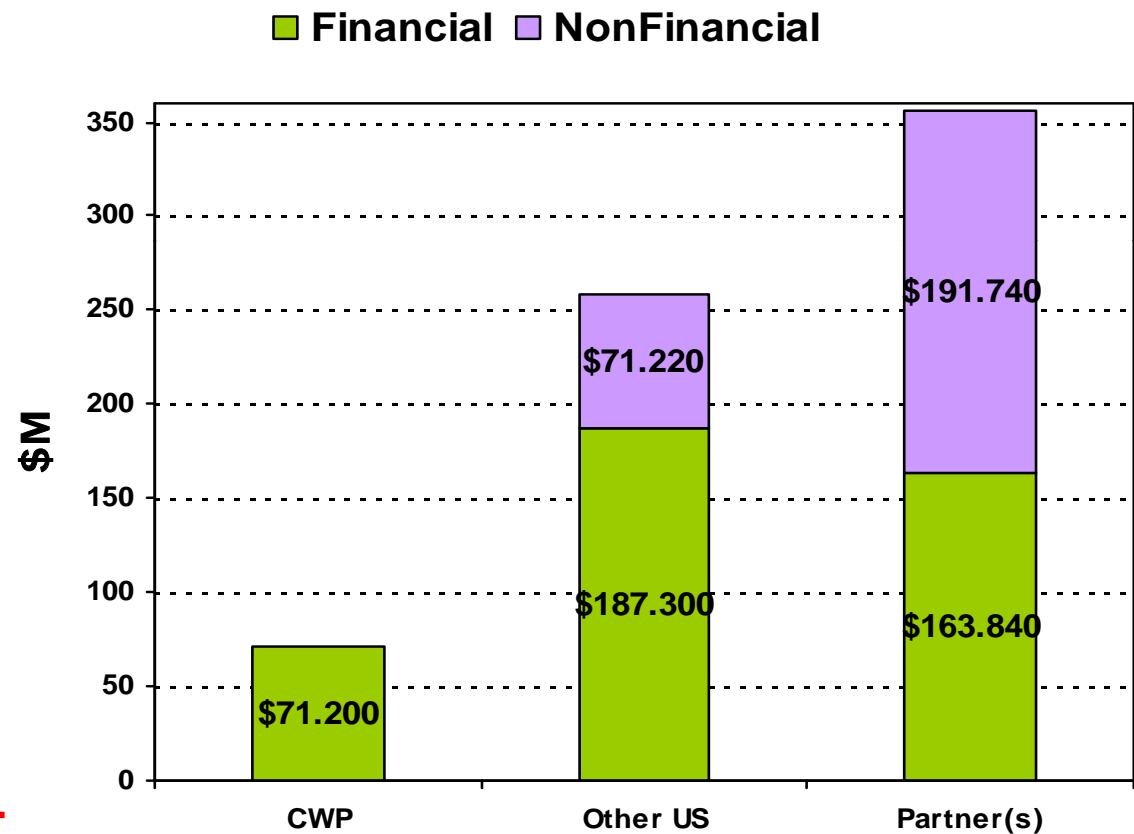
Navy, Marine Corps, AFRICOM,
CENTCOM, JFCOM, SOCOM



CWP History

- Established in 2000; funding began in FY01
- 84 projects funded to date (including FY10 new starts):
 - CWP - \$71.2M
 - Other US - \$258.52M (1:4)
 - Partners - \$355.58M (1:5)

**Total Funding Leveraged:
\$614.1M (1:9)**





Strategic Imperatives



CWP Responds to a Number of Strategic Requirements

National Level Strategic Guidance

National Security Strategy

Department Level Strategic Guidance

Quadrennial Defense Review

National Defense Strategy

National Military Strategy

Guidance for Employment of the Force

Guidance for Deployment of the Force



FCB Issues

COCOM IPLs

JROC Validated Needs

Service/Agency S&T Priorities

Partner capabilities and needs

COCOM Theater Security Cooperation Plans

Commitments resulting from engagement with partners

Armaments Cooperation Imperatives in Regional Strategies



Capability Portfolio Management

- The joint capability area (JCA) structure serves as the common framework and lexicon for the organization of capability portfolios (from DoDD 7045.20)
 - Force Support
 - Battlespace Awareness
 - Force Application
 - Logistics
 - Command and Control
 - Net-Centric
 - Protection
 - **Building Partnerships**
 - Corporate Management and Support



Building Partnerships Framework

Building Partnerships

The ability to set the conditions for interaction with partner, competitor or adversary leaders, military forces, or relevant populations by developing and presenting information and conducting activities to affect their perceptions, will, behavior, and capabilities.

JCA Tier I

JCA Tier II

JCA Tier III

Communicate

Shape

- Inform domestic and foreign audiences
- Persuade partner audiences
- Influence adversary and competitor audiences

- Partner with foreign governments and institutions
- Build capabilities and capacities of foreign partners and institutions
- Provide aid to foreign partners and institutions
- Leverage capacities and capabilities of security establishment
- Strengthen Global Defense Posture

Related

DOD

Activities

(Illustrative)

- Public Affairs
- Support to Public Diplomacy
- PSYOP
- Human Terrain

- Security Cooperation
- Stability Operations / IW
- Humanitarian Assistance
- Civil Affairs



Building Partnership Terms: BP and BPC

- Building Partnerships (BP)

Capabilities

- Refers **only** to the Joint Capability Area and its Sub-JCAs

- Building Partner Capacity (BPC)

Activities

- Term from 2006 QDR
- Tier III Joint Capability Area
- Describes a force employment concept or the application of capabilities for a given purpose – to build the capacity (and capability) of a partner – FOREIGN or DOMESTIC.
- Captures a large set of like activities from the definition of Security Cooperation
- Subset of BP, not synonymous with it



Building Partnership Terms: Security Cooperation (SC)

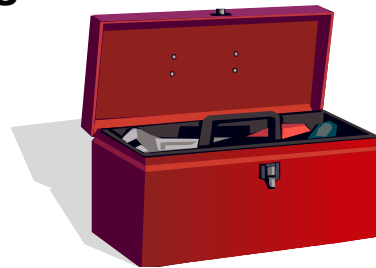
Activities

- **Activities** undertaken by DoD to encourage and enable international partners to work with the United States to achieve strategic objectives. It includes **all DoD interactions** with foreign **defense and security** establishments, including all DoD-administered security assistance programs, that: build defense and security **relationships** that promote specific U.S. security interests, including all **international armaments cooperation** activities and **security assistance** activities; **develop** allied and friendly **military capabilities** for self-defense and multinational operations; and provide U.S. forces with peacetime and contingency **access** to host nations. ([DODD 5132.03 24 Oct 2008](#))
 - MUCH MORE than training and equipping foreign forces
 - NOT limited to “peacetime”; SC activities can occur during any phase of an operation and in any type of campaign
 - Focuses on the partner AND U.S. military capabilities
 - ALL DoD COMPONENTS execute SC



Building Partnership Tools: CWP Is One of Many

- Exploratory Discussions
- Bilateral and Multilateral Forums
- 1206 Funding (Global Equip and Train)
- Foreign Military Sales
- Foreign Military Financing
- International Military Education and Training (IMET)
- Overseas Humanitarian, Disaster, and Civic Aid, Defense (OHDACA)
- Combined Exercises
- Regional Initiatives
- Cooperative RDT&E, Procurement, Production and Logistics
 - **Coalition Warfare Program**
 - JCTDs
 - Service ICR&D
 - Acquisition Cross Servicing Agreements
- Foreign Comparative Test Program
- Defense Personnel Exchanges/ Assignments
- Information Exchanges
- Equipment Loans and Leases
- Etc....





Submitting a CWP Proposal



CWP Proposal Basic Requirements

- CWP selects projects through an annual, competitive, nomination process.
 - CWP will provide “seed” funding of up to **\$1,000,000** per year for 2 years.
- Basic Criteria:
 - RDT&E content
 - Nominations accepted from COCOMs, Services, Defense Agencies, or OSD staff
 - Projects must have committed foreign government partners



FY11 Nomination Process

- Offices considering submitting an FY11 proposal should start ground work by:
 - Identifying foreign partner and understanding international agreement requirements of project
 - Identifying internal resources that can be committed
- First drafts will be due in their entirety, January 15, 2010.
- Nomination must include a completed checklist indicating that the submitter has addressed CWP requirements.
- A CWP team member will review and provide feedback on the nomination. Final drafts will be due February 26, 2010.

CWP Nomination Review Checklist			
	YES	NO	Comments
Is the nomination complete?			
Is there a foreign partner (s)?			
Is it an RD&E project?			
Is it cooperative RD&E with other nations' defense agency components (ministries, Services, Agencies)?			
Has the sponsor agreed to contribute financial or non-financial resources to the project?			
Have the foreign partners agreed to contribute financially or otherwise to the project?			
Is there a US government sponsor to manage and execute the project?			
Does the nomination identify a specific US mission need, COCOM shortfall or JROC-approved need?			
Does the project have COCOM interest and/or support?			
Will the project have a post current operational cap?			
Is the amount of funding requested considering the project?			
Is there a tangible outcome for the project?			
Does the nomination identify a practical plan?			
Did you discuss the project does not duplicate other ongoing DoD activities or result in a similar result?			
Have you discussed the disclosure/export control with a Service IPO?			
Does the Service IPO agree that the outlined agreement strategy will be sufficient for the proposed effort?			



FY11 Nomination Process, cont.

- After receiving final drafts of all of the nominations, CWP collects feedback on the proposals from subject matter experts from:
 - COCOMs, Services, Joint Staff, Agencies, OSD Staff, Area Embassies
- Team down selects to the most competitive proposals and hosts a one day review of the finalists with U.S. SMEs.
 - Selections are based on input from SMEs and strategic guidance.
- Announcements in May or June.



FY11 Nomination Process: New Definitions of Interest

- **Sponsor** = is engaged or actively involved in project, may be providing resources (funding, personnel, etc) to execute
- **Endorser** = recognizes project as meeting an identified Command/Service need or supporting interoperability goals with partners
- **Supporter** = sees utility in project for DoD; believes the project supports interoperability with partners but may not meet a current identified Command/Service need
- **No Interest** = does not believe project meets a DoD need.

ANNEX A: NOMINATION FORM

Lead: XXX Foreign Partners: XXX
 Other US Participants: XXX Short Title: XXX

(such as a CDD) or Integrated Priority List? If so, elaborate.

- Identify plan to engage other Combatant Commanders to fulfill their needs.
- Is there any Congressional or high-level interest in this project?
- Is this a Joint project? Yes ___ No ___
 If so, which Services are involved?

COCOM-Service-Agency Interest (Please contact the appropriate agencies through nomination development to gauge support for project. For assistance with POCs, please add agencies or contact CWP team.)

Organization	Sponsor	Endorser	Supporter	No Interest
EUCOM				
AFRCOM				
PACOM				
CEMTCOM				
SOCOM				
SOUTHCOM				
TRAISSCOM				
STRATCOM				
HORTHCOM				
NAVY				
USMC				
USAF				
ARMY				
DTRA				
MDA				
DISA				
OSD (A78)				

Sponsor = is engaged or actively involved in project, may be providing resources (funding, personnel, etc) to execute

Endorser = recognizes project meets identified Command/Service need, supports interoperability goals with partners

Supporter = sees utility for the DoD, supports interoperability with partners but may not meet a current identified Command/Service need

No Interest = Does not recognize project as meeting a need for DoD.

- Describe your coordination with COCOM, Services and Agencies, to include any pertinent feedback you have already received.

3PROJECTNAME_AnnexA_Nomination_DATE.doc



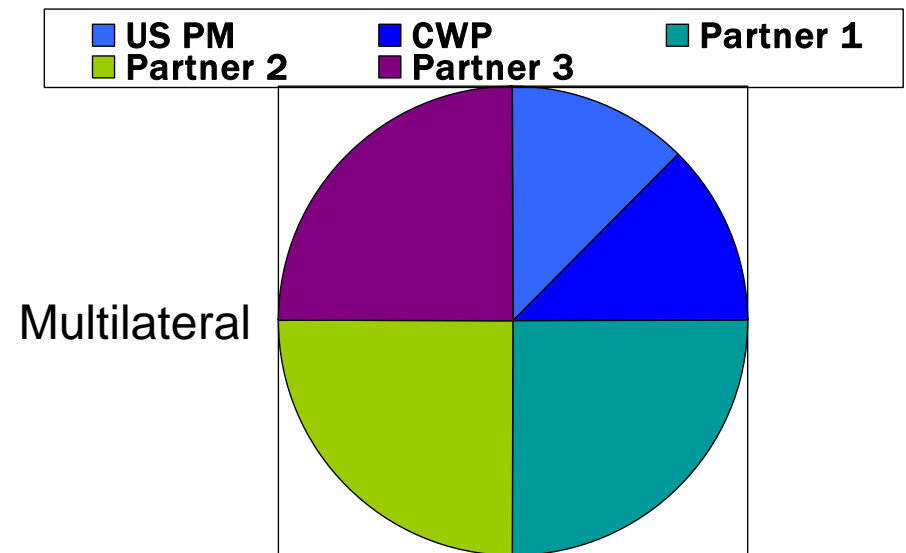
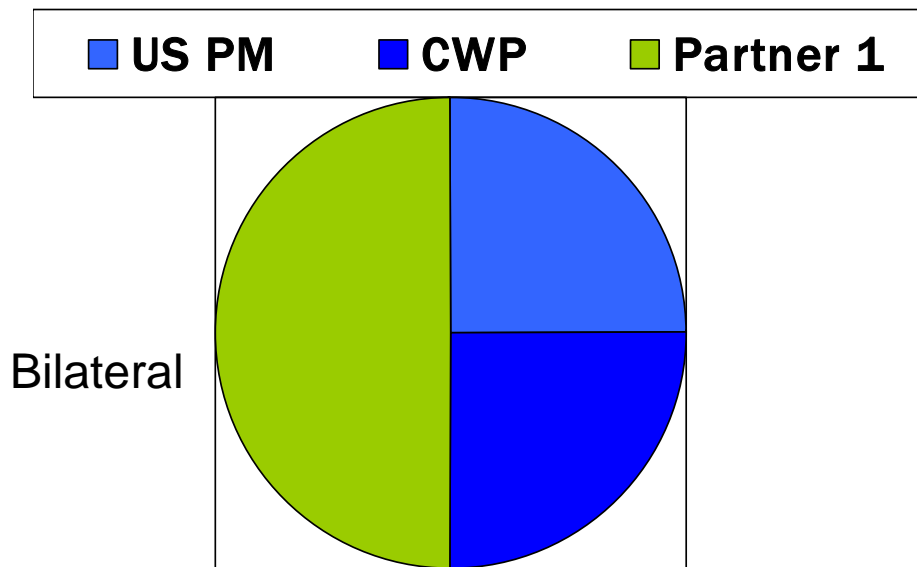
Evaluating a CWP Proposal

	Basic	Acceptable Basic Elements +	Strong Previous Elements +	Excellent Previous Elements +
Product	RDT&E Content	Tangible outcome and clear objectives	Not duplicative of other efforts	Unique solution to a complex problem
Sponsorship	U.S. government sponsor	Sponsor financial contribution & COCOM endorsement	Equitable financial contribution	Multiple endorsements
Foreign Partner	Government institution identified	Financial or non-financial support	Foreign POCs identified & equitable contributions	High-level interest
Benefit	Clear benefit to warfighter	Meets an identified need	Meets identified need of multiple COCOMs/ Services/Agencies	Will quickly be able to respond to identified need
Legal	Reviewed for international agreement/disclosure/export control issues	Sponsor and Service IPO have a plan of action to get agreements in place/issues resolved	Can get necessary international agreements in place in time to start/other issues in work	Has necessary international agreements in place /other issues resolved
Project Mgmt	Funds requested commensurate with scope	Practical metrics for success	Identified transition aim	Programmed to transition



Coalition Warfare Program Contributions

- Sponsor and foreign partner expected to contribute resources to project
- **Equitable contributions from foreign partner could entail:**
 - Traditional “equal” contributions
 - Could also be benefit related





Sources for CWP Project Ideas

- Current relationships
 - Bilateral and Multilateral Forums
 - Ongoing development programs
 - Existing international agreements
 - Information Exchange Agreements
- Networking
 - International conferences
 - Joint Capability Technology Demonstrations
 - CWPs can add an international element to an existing JCTD or jump start a new effort



Paths for Getting Involved

- After generating project idea:
 - U.S. government offices should engage:
 - CWP Office
 - COCOM/Agency S&T Offices
 - Service International Program Offices
 - U.S. industry should engage:
 - Service or COCOM POC with interest in project and funding to contribute
 - Foreign government offices should engage:
 - U.S. Embassy Office of Defense Cooperation/Office of Security Assistance
 - Appropriate OUSD(AT&L)/International Cooperation Desk Officer



CWP Project Manager Responsibility

- Acceptance form—due upon receipt
 - Acknowledging CWP requirements
- Initial planning report—due August 15, 2009
 - Updated project information, financial plans, instructions for funds disbursement
- Monthly financial report—due on the 15th of every month
 - Updated obligation/expenditure data
- Quarterly report—due on the 15th of January, April, July, and October
 - Updated project status
- Obligation and expenditure documentation for CWP funding—due as they are generated
- Final report—due 60 days after the effort is completed



FY10 Project Selections



CWP Projects with Partners in EUCOM/AFRICOM

FY08 Starts

- Advanced Dynamic Magnetometer for Static and Moving Applications
- Coalition Warfare Command & Control Interoperability Enhancement
- Multi-National Turnkey C2
- Multinational Virtual Learning Environment (MVLE) for International Security Cooperation Objectives
- NATO Friendly Force Information (NFFI) Interface Prototype Standard (NIPS) Project
- Optimizing Coalition Leader & Team Operational Readiness to Achieve Technical Interoperability in Network Centric Operations
- US Joint Tactical Radio System (JTRS) & UK Bowman Radio C2 Interoperability through the JTRS-Bowman Waveform

FY09 Starts

- ADNS Coalition Network Interoperability
- Common Ground
- FBCB2/SIR Interoperability Solution
- International Recognition of Combat Vehicles
- ITA Sensor & Policy Software Tools and Protocols for Networking of Disparate ISR Assets
- Maritime Domain Awareness Offshore West Africa
- Passive and Active Detection of Special Nuclear Material
- Pathogen Analysis in West Africa
- Software Defined Radio Coalition Waveform Development Project
- The Web Service for All-source Releasability and Dissemination

FY10 New Starts

- Clip-on Night Vision Device – Sensor Fusion
- Coalition Battle Management Services
- Coalition Live, Virtual, Constructive Operations and Training
- Easy Internet Connectivity
- Fire Support Ammunition Update Capability
- JSTARS - ASTOR Interoperability Project
- Laser Jamming and Damage Protection for Mid-Wave Infrared (MWIR) Detectors



Results of the FY10 Nomination Process

- CWP selected 9 new starts and will fund one pre-selected project from FY09, bringing the CWP FY10 portfolio to 26 funded projects and 11 projects wrapping up.
- New Start Statistics
 - CWP commitment to FY10 new starts: \$11.465M (between FY10 and FY11)
 - Other U.S. Partner financial and non-financial contributions: \$35.575M (leveraging 1:3)
 - Foreign Partner financial and non-financial contributions: \$27.53M (leveraging 1:2)



FY10 New Starts Sponsors and Partners

- New starts sponsored by:
 - EUCOM/AFRICOM, JFCOM, PACOM, SOCOM, SOUTHCOM, USAF, USA, and OSD AT&L
- New starts collaborate with 22 foreign partners:
 - Australia
 - Belgium
 - Canada
 - Colombia
 - Denmark
 - Estonia
 - Finland
 - France
 - Germany
 - Greece
 - Norway
 - India
 - Italy
 - NATO
 - Netherlands
 - Nigeria
 - Sao Tome & Principe
 - Singapore
 - Spain
 - Sweden
 - Turkey
 - UK



FY10 New Starts

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
2010 New Starts		
<u>Clip-on Night Vision Device – Sensor Fusion</u> To research, develop, test and evaluate a state-of-the-art clip-on sensor fusion device for small arms. Device will integrate (fuse) state of the art technology for night vision, thermal/IR and other technologies to provide the operator with several choices of night vision images.	SOCOM [US Navy (NSWC Crane JSOP)]	UK In discussion: Australia, Canada
<u>Coalition Battle Management Services</u> To enhance the ability of joint and coalition forces to execute mission rehearsals prior to deploying into theater as well as executing mission rehearsal and planning for emerging threats encountered in theater.	JFCOM	NATO, Sweden, UK



FY10 New Starts

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
2010 New Starts		
<u>Coalition Information Exchange</u> To identify and prioritize maritime threats using automated fusion tools, anomaly detection capabilities, collaborative toolsets, and effective net-centric data management strategies to assemble a comprehensive maritime picture from multiple data sources.	PACOM [US Navy]	India
<u>Coalition Live, Virtual, Constructive Operations and Training</u> To create a unique training environment, where players are provided quality training including mission planning, briefing, execution, and debrief whether they are flying a live aircraft or participating in an air or ground simulation environment.	US Air Force; EUCOM (USAFE/A3T) [(ACC/A3T)]	UK; Requested Australia and Canada



FY10 New Starts

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
2010 New Starts		
<u>Easy Internet Connectivity</u> To enable rapid deployment of commercial equipment and commercial IP satellite services to remotely deployed US units, coalition partners, IOs, and NGOs that will be tailored specifically for the location and duration of requested connectivity.	EUCOM/ AFRICOM [US Navy (NAVAIR), (NAVSEA), US Army (USASMDBL)]	France; Nigeria; Sao Tome and Principe
<u>Fire Support Ammunition Update Capability</u> To significantly reduce the time required to field updates to the ballistic performance characteristics for existing ammunition and weapons to US and NATO fire support systems. To establish this capability without the need to completely retest and reissue fire support software.	US Army (ARDEC), PM CAS	Canada, Denmark, Germany, Turkey, UK



FY10 New Starts

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
2010 New Starts		
<u>JSTARS - ASTOR Interoperability Project</u> To develop a baseline interoperability between the US's E-8 Joint STARS aircraft and accompanying ground stations and the UK's Sentinel aircraft and accompanying ground stations.	OSD AT&L [US Air Force, US Army]	UK
<u>Laser Jamming and Damage Protection for Mid-Wave Infrared (MWIR) Detectors</u> To develop a laser hardened MWIR detector that will enable operation and survivability in a laser threat environment.	US Air Force (AFRL/RXPJ)	UK



FY10 New Starts

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
2010 New Starts		
<u>MAritime Radiological Stand-off Detection and Identification Project</u> To demonstrate a system-level solution for WMD (nuclear/radiological-specific) stand-off detection in the maritime environment.	PACOM, DTRA [TSWG]	Singapore
<u>Riverine and Intercoastal Operations</u> To provide joint and coalition situational and maritime domain awareness through persistent surveillance and advanced reconnaissance of riverine and inland near-water environments.	SOUTHCOM, SOCOM [US Navy (NSWG, NAVSEA PMS 480)]	Colombia



2008 National Defense Strategy

The United States also must **strengthen and expand alliances and partnerships**. The U.S. alliance system has been a **cornerstone of peace and security** for more than a generation and remains the **key to our success**, contributing significantly to **achieving all U.S. objectives**. **Allies often possess capabilities, skills, and knowledge we cannot duplicate**. We should not limit ourselves to the relationships of the past. We must broaden our ideas to include partnerships for new situations or circumstances, calling on moderate voices in troubled regions and unexpected partners.



Contact Information

Obtain more information at:

www.acq.osd.mil/ic/cwp.html

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Back up slides



CWP Project Timeline: Nomination/Selection Phase

	Project Manager	Partners	Sponsors	CWP Team
Jul	<u>Conduct Groundwork:</u> <ul style="list-style-type: none"> • Develop ideas • Identify sponsor, funding • Work with international programs offices for any agreements required 		Distribute Call Memo	Release Call Memo
Aug				Kickoff Conf.
Sep				
Oct				
Nov				
Dec				
Jan	15-Submit First Draft			Provide Feedback
Feb	26-Submit Final Draft			
Mar				<u>Conduct Evaluation:</u>
Apr				<ul style="list-style-type: none"> • Collect feedback • Conduct needs/gaps analysis
May				Announce Decisions
Jun	Return Acceptance Form			
Jul	Updated Project Information, Quad Chart, Project Planning Info	Negotiate and Sign Agreements		
Aug				
Sep				



CWP Project Timeline: Execution Phase

	Project Manager	Sponsor		CWP Team
Oct				
Nov				
Dec				
Jan				Disburse Funding (Timing dependent on congressional action on defense budget)
Feb	Obligate Funding ASAP			
Mar				
Apr				
May				
Jun				
Jul				
Aug	Submit Updated Project Information		Track Project's Status	
Sep				
Oct				
Nov				
Dec	★ Submit Monthly Expenditure Reports			Disburse Funding (Timing dependent on congressional action on defense budget)
Jan				
Feb	★ Submit Quarterly Status and Expenditure Reports			
Mar				
Apr				
May				
Jun				
Jul				
Aug	Submit Final Project Report			
Sep				



FY10 On-going Projects

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
2008 New Starts		
<u>Advanced Dynamic Magnetometer for Static and Moving Applications</u> To develop a compact and inexpensive micro-fluxgate magnetometer for use in multiple COCOMs. To continue T&E with joint services and apply lessons learned to provide wide range of surveillance/detection solutions.	US Navy (SPAWAR)	Italy, Sweden
<u>Coalition Warfare Command & Control Interoperability Enhancement</u> To enhance coalition fire support capability where each Fires Coordination organization of partner nations may coordinate Fires from supporting coalition platforms and other Fires Coordination organizations.	US Army (PEO C3T) [EUCOM]	France, Germany, Italy, UK



FY10 On-going Projects

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
<p><u>Multi-National Turnkey C2</u> To provide NATO with a repeatable methodology and tools to accelerate C2 interoperability and reduce the ad hoc nature of the HQs formation process.</p>	JFCOM	NATO ACT /C4I
<p><u>Multinational Virtual Learning Environment (MVLE) for International Security Cooperation Objectives</u> To establish the South Eastern Europe/Black Sea Region MVLE Training Site and to establish a real-time, online communications that include a multilingual machine language translation and natural language interface development in support of the Bulgarian, Romanian, and Ukrainian languages.</p>	US Navy (SPAWAR) [JFCOM; US Army (TRADOC); OSD]	Bulgaria, Norway, Romania, UK



FY10 On-going Projects

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
<u>NATO Friendly Force Information (NFFI) Interface Prototype Standard (NIPS) Project</u> To improve existing defense asset tracking technologies to permit US, allied and/or coalition countries to view personnel and asset position, status, and location information on national or NATO Common Operational/Tactical Pictures.	JFCOM [STRATCOM]	NATO
<u>Optimizing Coalition Leader & Team Operational Readiness to Achieve Technical Interoperability in Network Centric Operations</u> To provide a repository of identified critical competencies essential for effective performance in network-enabled operations.	US Navy (NAVAIR) [US Army (ARL); US Air Force (AFRL)]	Australia, Canada, France, UK, Ukraine



FY10 On-going Projects

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
<p><u>Palm-sized Automated Chemical Agent Detector (PACAD)</u> To cooperatively research, test, evaluate, and fabricate a PACAD prototype based on the chemistry of the U.S. M256A1 Chemical Agent Detection Kit and Japanese micro-fluidic, electro-optical, and miniaturization technologies.</p>	US Army	Japan
<p><u>Stabilized Weapons System Installation</u> To deliver a modularized stabilized weapon system that can be installed in IN combatant craft and the US SEALION craft without negatively impacting craft detection signature.</p>	US Navy (NSWG) [SOCOM]	Partner



FY10 On-going Projects

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
<p><u>Stake Holder Asset-Based Planning Environment</u> To develop requirements for a joint, interagency, and multi-national response; identify existing and emerging best in class methods and technologies that can support this whole of government and multi-national response; and then deliver those capabilities to the user communities (DOD, DOS, USAID, coalition partners, international and regional organizations, and the private sector) in the FY08-09 timeframe.</p>	SOUTHCOM [USAID]	Peru
<p><u>Tactile Situation Awareness System</u> To develop garment capable of providing pitch and roll as well as hover capabilities for pilots.</p>	US Army [US Navy; SOCOM; OSD]	Canada



FY10 On-going Projects

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
<p><u>US Joint Tactical Radio System (JTRS) & UK Bowman Radio C2 Interoperability through the JTRS-Bowman Waveform (JBW)</u> To develop JTRS Bowman Waveform for interoperable use with UK Bowman ADR+ radios and investigate enhanced interoperability opportunities through JTRS waveform development.</p>	JTRS JPEO [US Navy; US Air Force; US Army]	UK
<p><u>US-Singapore Unmanned Vehicle</u> To develop and integrate a remotely operated small arms mount with two SPIKE missiles and .50 caliber gun onto the SPARTAN 7-meter RHIB; to expand operations for SPARTAN over-the-horizon by use of a Tactical Unmanned Air Vehicle.</p>	PACOM [US Navy (NUWC)]	Singapore



FY10 On-going Projects

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
<u>Virtual Regional Maritime Traffic Center</u> To create a regional MDA capability across Partner Nations that is comprised of an interoperable, net-centric, federated organization of sensors, data, information, intelligence and dissemination tools and processes.	US Army (ACE) [SOUTHCOM]	Honduras, Chile, Brazil, Argentina



FY10 On-going Projects

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
2009 New Starts		
<u>ADNS Coalition Network Interoperability</u> To develop and demonstrate an interoperable, manageable and secure coalition network based on existing and emerging standards, using, where possible, commercial services and products.	US Navy (SPAWAR)	Australia; Canada; New Zealand; UK
<u>Common Ground</u> To provide a common geospatial information foundation supporting Coalition C2 processes to include planning, Intelligence Preparation of the Battlespace (IPB), Course of Action Analysis (COA), mission rehearsal and execution monitoring.	US Army (ERDC) [JFCOM]	NATO NC3A



FY10 On-going Projects

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
<u>FBCB2/SIR Interoperability Solution</u> To demonstrate shared Blue SA between FBCB2 and the French SIR system using existing infrastructure via NFFI v1.3 and extend to enable shared SA and C2 messages between FBCB2/SIR leveraging BCCS and MIP v3.	US Army (PM FBCB2) [CENTCOM; EUCOM]	France
<u>GPS Multinational Receiver Core Development</u> To enable coalition users to take advantage of commercial, off-the-shelf GPS display and mapping software without relying on the civilian GPS engines.	US Air Force [US Army; STRATCOM]	Canada



FY10 On-going Projects

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
<u>International Recognition of Combat Vehicles</u> To collect and process imagery of coalition platforms for inclusion into ROC-V and providing a sharing capacity of the trainer to all participating nations.	US Army (Night Vision and Electric Sensors Directorate) [JFCOM; TRADOC; US Marine Corps]	Australia, Canada, Germany, New Zealand, UK
<u>ITA Sensor & Policy Software Tools and Protocols for Networking of Disparate ISR Assets</u> To develop a set of sensor and policy algorithms and software tools for networking of disparate ISR assets from coalition forces.	US Army (ARL) [CENTCOM; SOCOM; EUCOM]	UK



FY10 On-going Projects

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
<u>Maritime Domain Awareness Offshore West Africa</u> To develop and refine automatic, releasable software tools to process commercial Synthetic Aperture Radar and Electro-Optic/Infrared sensor data. To determine capabilities to detect vessels, observe behaviors, and infer maritime activities using commercial SAR, EO/IR, and AIS data	US Navy [AFRICOM]	NATO
<u>Passive and Active Detection of Special Nuclear Material</u> To enhance the capability of our coalition warfare partners to interdict smuggled nuclear devices and materials.	DTRA [US Navy; EUCOM]	Black Sea Nations; France; Turkey; UK



FY10 On-going Projects

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
<p><u>Pathogen Analysis in West Africa</u> To provide strain-level ID, discrimination & characterization of 10^2-10^3 human pathogens and genetic variants in one assay/in one day at six sigma accuracy.</p>	US Navy [EUCOM]	Ghana, Sierra Leone
<p><u>Service Oriented Architecture Development for C2 Gap Filler Block 1</u> To prove the SOA approach prior to large scale implementation in the C2 Gap Filler JCTD. The SOA C2 Gap Filler initiative's operational objectives are to provide N-NC air defense operations an interoperable coalition C2 integration and data fusion/correlation capability.</p>	NORTHCOM [DIA; US Air Force (ESC)]	Canada



FY10 On-going Projects

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
<p><u>Service-Oriented Architecture Foundation Text-to-Text Machine Translation Services</u> To provide an enterprise-level text to text machine translation service available to any authorized user or system on the network.</p>	US Army (CERDEC) [PACOM; CENTCOM]	Singapore
<p><u>Software Defined Radio Coalition Waveform Development Project</u> To develop specifications for interoperable SDR coalition waveform. To establish security policy implementation and NATO/coalition waveform certification process.</p>	JTRS JPEO [EUCOM, and PACOM expressed interest]	Australia, France, Germany, Italy, UK, Finland, Sweden, Spain



FY10 On-going Projects

<u>Project Objective</u>	US Sponsor [US Partner]	Foreign Partner
<p><u>The Web Service for All-source Releasability and Dissemination</u> To provide a web service for net-centric, Service Oriented Architecture-based operations that streamlines releasability of intelligence products to our most trusted allies</p>	OSD (USD(I)) [NGA; JFCOM]	Australia; Canada; NATO; UK
<p><u>Ultra High Performance Concrete Material Properties Characterization (UHPC)</u> To fully characterize the material properties of UHPC as it reacts to blast, penetration, Mach Stem and Munroe Effects in order to enable a more effective production and use of barrier material and increase the effectiveness of defeat systems for offensive operations.</p>	DTRA	Australia



Building Partnership Terms: Security Assistance (SA) Programs

- A group of programs authorized by [22 USC], as amended, or other related statutes by which the United States provides defense articles, military training, and other defense-related services by grant, loan, credit, cash sales, or lease, in furtherance of national policies and objectives. The Department of Defense does not administer all security assistance programs. Those security assistance programs that are administered by the Department are a subset of security cooperation. ([DODD 5132.03](#) 24 Oct 2008)
 - A foreign policy tool with military applications
 - Programs NOT activities; it is one set of means to accomplish tasks
 - Can be used in both traditional and irregular warfare campaigns – some specific limitations



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