Coalition Warfare Program
Briefing to: Science & Engineering Technology Conference

Col Kathy Hithe, USAF
Deputy Director,
Coalition Warfare Program
OUSD(AT&L)/International Cooperation
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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
Building Blocks of Armaments Cooperation

Cooperative Procurement and Co-Production

Evaluation of Foreign Technology / Foreign Comparative Tests

Cooperative RDT&E

Defense Personnel Exchanges/Assignments

Information Exchanges

Exploratory Discussions

Bilateral Forums

Loans

Multilateral Forums
Armaments Cooperation Goals:

• Build partnerships; strengthen alliances and influence adversaries
• Reduce cost by sharing costs or avoiding duplication of development efforts
• Increase military effectiveness through interoperability; share global security responsibilities
• Bolster domestic and allied defense industrial bases
• Access the best defense technology and expertise; help minimize the capabilities gaps

Building Partnerships Goals:

• Build capabilities and capacities of partners and institutions
• Leverage capacities and capabilities of security establishments
• Influence adversaries and competitors
• Strengthen global defense posture
• Partner with government and institutions
• Inform domestic and foreign audiences
Global Partnerships through CWP Projects
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
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
CWP History

- Established in 2000; funding began in FY01
- 75 projects
  - CWP - $65.75M
  - Other US - $224.17M (1:3)
  - Partners - $319.27M (1:5)

Total Funding Leveraged: $543.44M (1:8)
Project Transitions

Technical PM is responsible for working transition to next phase

- 24, 58% (Yes)
- 9, 22% (Partially)
- 8, 20% (No)

34 Projects still underway
Participation in CWP Projects
FY01-FY09

Sponsorship and Partnership. Some projects have more than one of each.
Important Dates

• FY10
  – Closed to new submissions
  – Preliminary decisions on selections will be announced in June.
  – Projects will be notified of availability of CWP funding after passage of FY10 DoD Authorization and Appropriations Bills.
  – Selected projects will be able begin work after CWP receives its FY10 budget (plan for January 2010.)

• FY11
  – Offices interested in submitting a proposal for FY11 cycle 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 January 2010.
<table>
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<tr>
<th></th>
<th>Basic</th>
<th>Acceptable Basic Elements +</th>
<th>Strong Previous Elements +</th>
<th>Excellent Previous Elements +</th>
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<tbody>
<tr>
<td><strong>Product</strong></td>
<td>RDT&amp;E Content</td>
<td>Tangible outcome and clear objectives</td>
<td>Not duplicative of other efforts</td>
<td>Unique solution to a complex problem</td>
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<td><strong>Sponsorship</strong></td>
<td>U.S. government sponsor</td>
<td>Sponsor financial contribution &amp; COCOM endorsement</td>
<td>Equitable financial contribution</td>
<td>Multiple endorsements</td>
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<tr>
<td><strong>Foreign Partner</strong></td>
<td>Identified</td>
<td>Financial or non-financial support</td>
<td>Foreign POCs identified &amp; equitable contributions</td>
<td>High-level interest</td>
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<td><strong>Benefit</strong></td>
<td>Clear benefit to warfighter</td>
<td>Meets an identified need</td>
<td>Meets identified need of multiple COCOMs/Services/Agencies</td>
<td>Will quickly be able to respond to identified need</td>
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<td><strong>Legal</strong></td>
<td>Reviewed for international agreement/disclosure/export control issues</td>
<td>Sponsor and Service IPO have a plan of action to get agreements in place/issues resolved</td>
<td>Can get necessary international agreements in place in time to start/other issues in work</td>
<td>Has necessary international agreements in place /other issues resolved</td>
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<td><strong>Project Mgmt</strong></td>
<td>Funds requested commensurate with scope</td>
<td>Practical metrics for success</td>
<td>Identified transition aim</td>
<td>Programmed to transition</td>
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</table>
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
Current portfolio by Joint Capability Area (JCA)

- Force Support
- Force Protection
- Net Centric
- Battlespace Awareness
- C2
- Force Application

All fall under Building Partnership!
## Project Examples

### Force Protection

**Passive and Active Detection of Special Nuclear Material (09-10)**
Demonstrate near-term passive detection systems for stand-off detection of kilogram quantities of special nuclear material and interdiction team capabilities to locate and identify materials.

### Battlespace Awareness

**Tactile Situational Awareness System (08-09)**
Garment containing tactile stimulators that intuitively provides SA to pilots (useful for brownouts). Developing an extended torso application to provide pitch and roll and hover SA.

**Advanced Dynamic Magnetometer for Static and Moving Applications (08-09)**
Develop an advanced, low cost, rugged, easily disguised networked magnetometer for persistent battlefield surveillance and detection of moving magnetic signatures. Capability to “see” through walls, harbor and littoral protection.

### Command and Control

**US JTRS Bowman VHF Waveform (02-03, 08-09)**
Waveform to allow communication with UK Bowman system. Successfully demonstrated, currently in JTRS waveform library; porting testing in FY09. Requirement in next phase of JTRS program.

**FBCB2/SIR Interoperability Solution (08-09)**
Cooperative project with France to exchange C2 data and information between two coalition battle command systems.
### Project Examples

#### Combat Identification

**International Recognition of Combat Vehicles (09-10)**
Collect and process imagery (visual and thermal, ground and air to ground) of coalition platforms for improvements to ROC-V training system.

**Mode 5 Identification Friend or Foe (IFF) (04-08)**
Cooperative development and testing. Includes development and integration testing on AWACS and coalition platforms.

#### Maritime Domain Awareness

**Multinational Information Exchange (FY06-07)**
Secure architecture and certified rule sets for exchange of COP data with Singapore.

**Virtual Regional Maritime Traffic Center (FY08-09)**
Maritime security project to share unclassified data with SOUTHCOM partners.

#### Planning and Application

**Multinational Turnkey C2 (FY08-09)**
Support to NATO ACT to develop coalition C2 architectures and mission templates to improve JTF formations. Focused on NRF, specifically in ISAF.

**Leadership and Commanders Intent (FY06-07) and Optimizing Coalition Leaders (08-09)**
Human Behavior studies on working with coalition partners in a net centric environment. Results will populate databases for acquisition and operational planning.

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**www.acq.osd.mil/ic/cwp.html**
• Warfighters need effective coalition partners
  – 2006 QDR Report: Building Partnership Capacity
  – COCOM Theater Security Cooperation Annexes
  – USD(AT&L) aims to increase interoperability with allies and partners

• Interoperability gaps have compromised operational effectiveness and jeopardized force protection (e.g., fratricidal incidents)

• R&D cooperation with coalition partners helps close capability gaps

• Small investments early in the R&D process can yield large dividends (e.g., Joint Strike Fighter)
# Contact Information

Obtain more information at:


<table>
<thead>
<tr>
<th>Contacts</th>
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<tbody>
<tr>
<td>Col Kathy Hithe, USAF</td>
<td>Ms. Merry Lutz</td>
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<tr>
<td><a href="mailto:kathleen.hithe@osd.mil">kathleen.hithe@osd.mil</a></td>
<td><a href="mailto:merry.lutz.ctr@osd.mil">merry.lutz.ctr@osd.mil</a></td>
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<tr>
<td>703-693-0133</td>
<td>703-614-8784</td>
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<tr>
<td>Ms. Christa Cochran</td>
<td>Mr. John Noulis</td>
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<tr>
<td><a href="mailto:christa.cochran.ctr@osd.mil">christa.cochran.ctr@osd.mil</a></td>
<td><a href="mailto:john.noulis.ctr@osd.mil">john.noulis.ctr@osd.mil</a></td>
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<tr>
<td>703-604-0067</td>
<td>703-602-5817</td>
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# CWP Project Timeline: Nomination/Selection Phase

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<tr>
<th>Jul</th>
<th>Project Manager</th>
<th>Partners</th>
<th>Sponsors</th>
<th>CWP Team</th>
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<td>Aug</td>
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<td>Conduct Groundwork:</td>
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<td>Oct</td>
<td>• Develop ideas</td>
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<td>Nov</td>
<td>• Identify sponsor, funding</td>
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<td>Dec</td>
<td>• Work with international programs offices for any agreements required</td>
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<td>Jan</td>
<td>Submit Executive Summary</td>
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<td>Feb</td>
<td>Submit Final Nomination Packages</td>
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<td>Jul</td>
<td>Submit Statement of Work, Updated Project Spend Plan, Quad Chart</td>
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<td>Aug</td>
<td>Negotiate and Sign Agreements</td>
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- Release Call Memo
- Kickoff Conf.
- Distribute Call Memo
- Provide Feedback
- Conduct Evaluation:
  - Get feedback from SMEs, Embassies
  - Compare nominations to needs/gaps
- Announce Decisions
## CWP Project Timeline: Execution Phase

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<td>Submit Updated SOW, Spend Plan, Quad Chart</td>
<td>Track Project’s Status</td>
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<td>Submit Monthly Expenditure Reports</td>
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<td>Disburse Funding (Timing dependent on congressional action on defense budget)</td>
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