USEUCOM Science & Technology,



Science and Technology Vision

An innovative team of experts pursuing technological solutions that sustain and further develop the forces that underpin enduring stability and peace in Europe and Eurasia

"Leveraging technology to make us stronger together"

> Michael McGuinness Deputy Science Advisor, ECJ8-C, S&T Branch



EUCOM J8-C, Science & Technology Branch

Sourced by RDECOM and NAVSEA Funded by RDECOM, NAVSEA, and OSD

Fully integrated as EUCOM AOs



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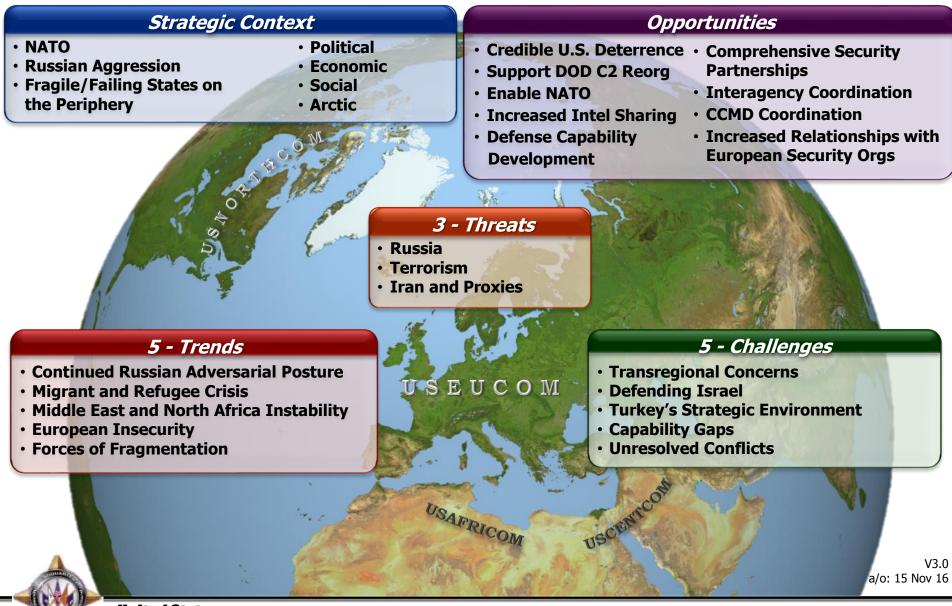
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UNCLASSIFIED European Security Environment



United States European Command

UNCLASSIFIED

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EUCOM S&T Tools (1/4)

• EUCOM Science and Technology Challenges

- Based on the IPL, Commanders Priorities and component requirements, EUCOM S&T Office creates an **unclassified** list of technology needs
- Organized by technological area for distribution to DoD labs

EUCOM S&T Technical Interchange Meetings

- Discussion of specific topics related to the operational challenges and capability gaps within the combatant command Area of Responsibility (AOR).
- Allow a technical exchange between the combatant command staff and product developers.



EUCOM S&T Tools (2/4)

- Strategic Capabilities Office (SCO)
 - OSD SCO expanded their mission areas to Russia in 2015.
 - SCO technologies are vetted by the COCOMs (PACOM and EUCOM) to determine operational utility before development.
 - EUCOM S&T is the lead for interface between SCO and EUCOM
- **DARPA, NASA,** and other FFRDC labs
 - EUCOM S&T is the primary interface to DARPA, FFRDCs, DoD labs and the ST community.
 - This relationship has led to influence in the development of solutions that serve EUCOM needs.



EUCOM S&T Tools (3/4)

- Joint Capability Technology Demonstrations/Enabling Technologies (ET) / Rapid Reaction Technology Office
 - EUCOMs focus in on developing and demonstrating technologies that serves a CCMD need which may be outside current programs.
 - Focus on ET's are less mature solutions that may lead to a JCTD
- Coalition Warfare Program/CWP Initiatives
 - EUCOM uniquely co located with NATO partner nations with significant defense industry development capability
 - Annually the majority of selected initiatives are with NATO nation

• DTRA and other Agency Technical Demonstrations

- Agency Tech Demos have been conducted for the past 5 years.
- CCMD provides an Operational Manager to facilitate interface with EUCOM Staff, components and partner nations



EUCOM S&T Tools (4/4)

Warfighter Laboratory Initiative Fund

• O&M funding for activities to support field experiments and demonstrations to take concepts from the paper to the real world

NATO Science and Technology Organizations

- NATO Systems Concepts and Integration
- NATO Centers of Excellence
- Joint Multinational Training Center
 - Forces from the US and partner nations routinely participate in training and exercises at JMTC
 - Prototypes can be inserted for testing
 - Personnel can visit exercises to witness current needs/challenges
 - Best venue for interoperability issues



EUCOM S&T Challenges

- Integrated Air and Missile Defense
- Anti Access / Area Denial (A2/AD)
- Intelligence, Surveillance, Reconnaissance (ISR)
- Space Resiliency
- Counter- Unmanned Aerial Systems
- Cyber
- Electronic Spectrum Management
- Command and Control Interoperability
- Communications
- Maritime Surface and Subsurface Operations
- Joint Reception, Staging, Onward-movement and Integration (JRSO&I)



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