United States Strategic Command

David W. Tyner

Capability and Resource Integration Directorate - J8

15 April 2010

UNCLASSIFIED

USSTRATCOM Mission Statement

USSTRATCOM promotes global security for America by -

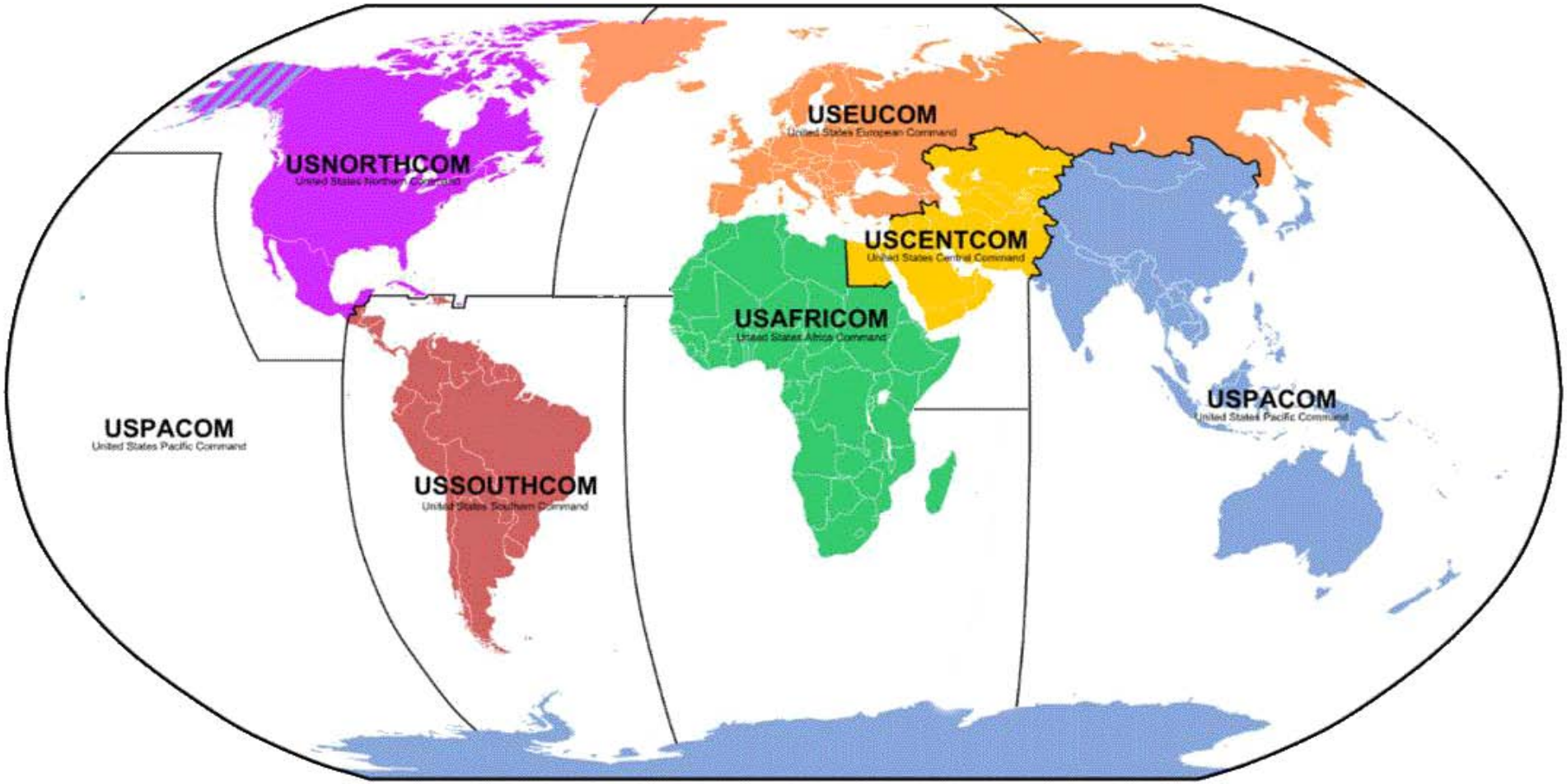
- **Deterring attacks on US vital interests and defending the nation should deterrence fail,**
- **Leading, planning, and executing strategic deterrence operations,**
- **Ensuring US freedom of action in space and cyberspace,**
- **Delivering integrated kinetic and non-kinetic effects in support of US Joint Force Commanders,**
- **Synchronizing global missile defense plans and operations,**
- **Synchronizing regional combating of weapons of mass destruction plans,**
- **Planning, integrating, and coordinating ISR in support of strategic and global operations, as directed,**
- **And advocating for capabilities as assigned.**

Global Security for America

Leaders in Strategic Deterrence and Preeminent Global Warfighters In Space and Cyberspace

Global Focus

- **Conduct Operations Across Boundaries**
- **Knit Together "Seams" Between Boundaries**



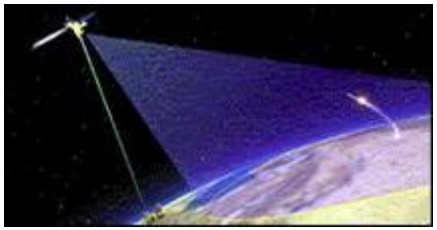
USSTRATCOM Missions

Lines of Operation

- Strategic Deterrence / Nuclear Operations
- Space
- Cyberspace

Joint Enablers

- Missile Defense
- Surveillance and Reconnaissance
- Information Operations
- Combating WMD



Headquarters Organization

CCC
CMSgt Narofsky

CD
VADM Mauney

CC
Gen Chilton

CS
MG Turner

J1
Col Poore

J3
RADM McClain

J5
Maj Gen Helms

J8
Mr. Callicutt

GISC
Col Gilbert

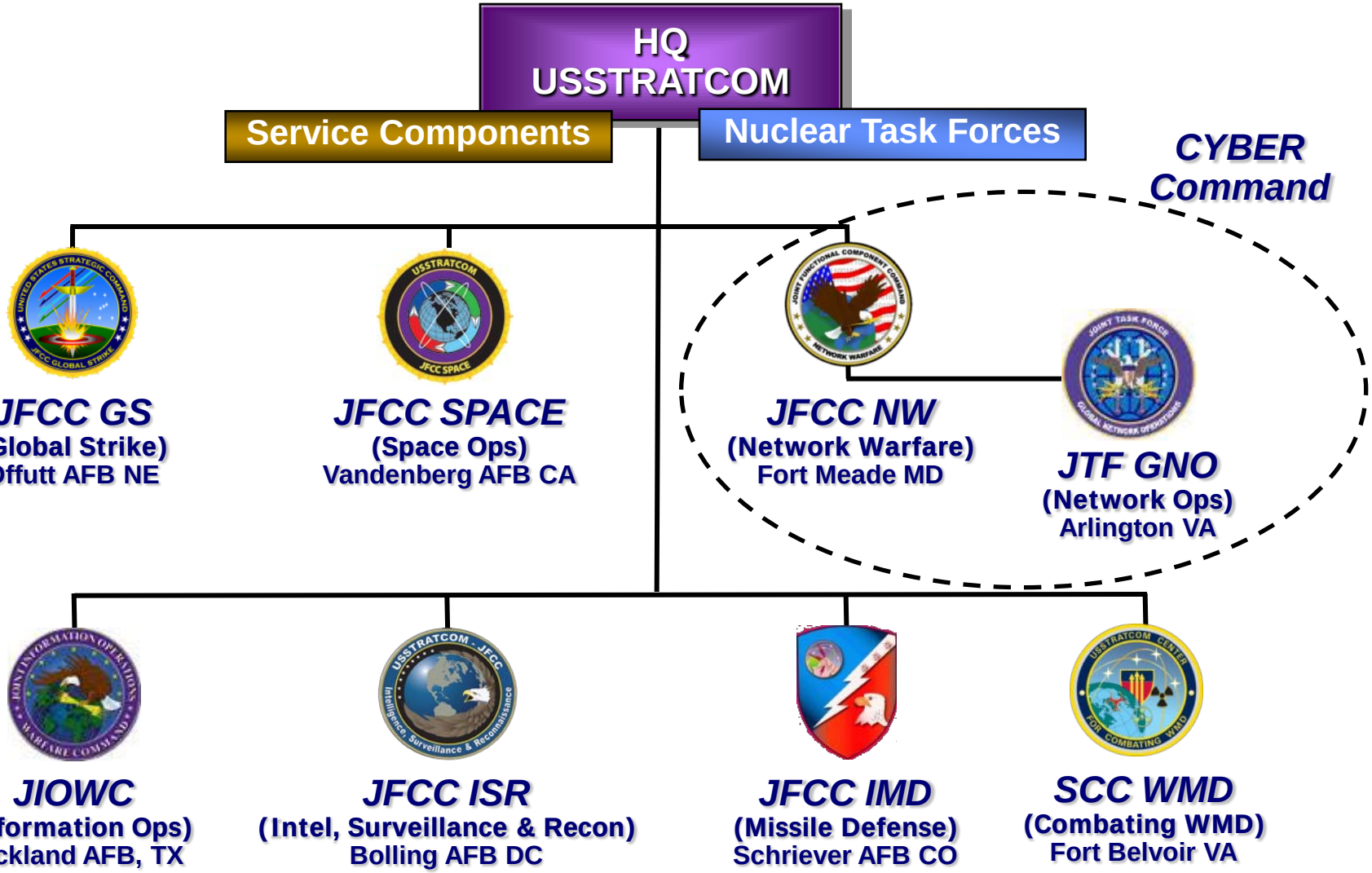
J2
CAPT Smith

J4
CAPT Power

J6
COL VanUs

J7
Mr. McVay

Component Structure



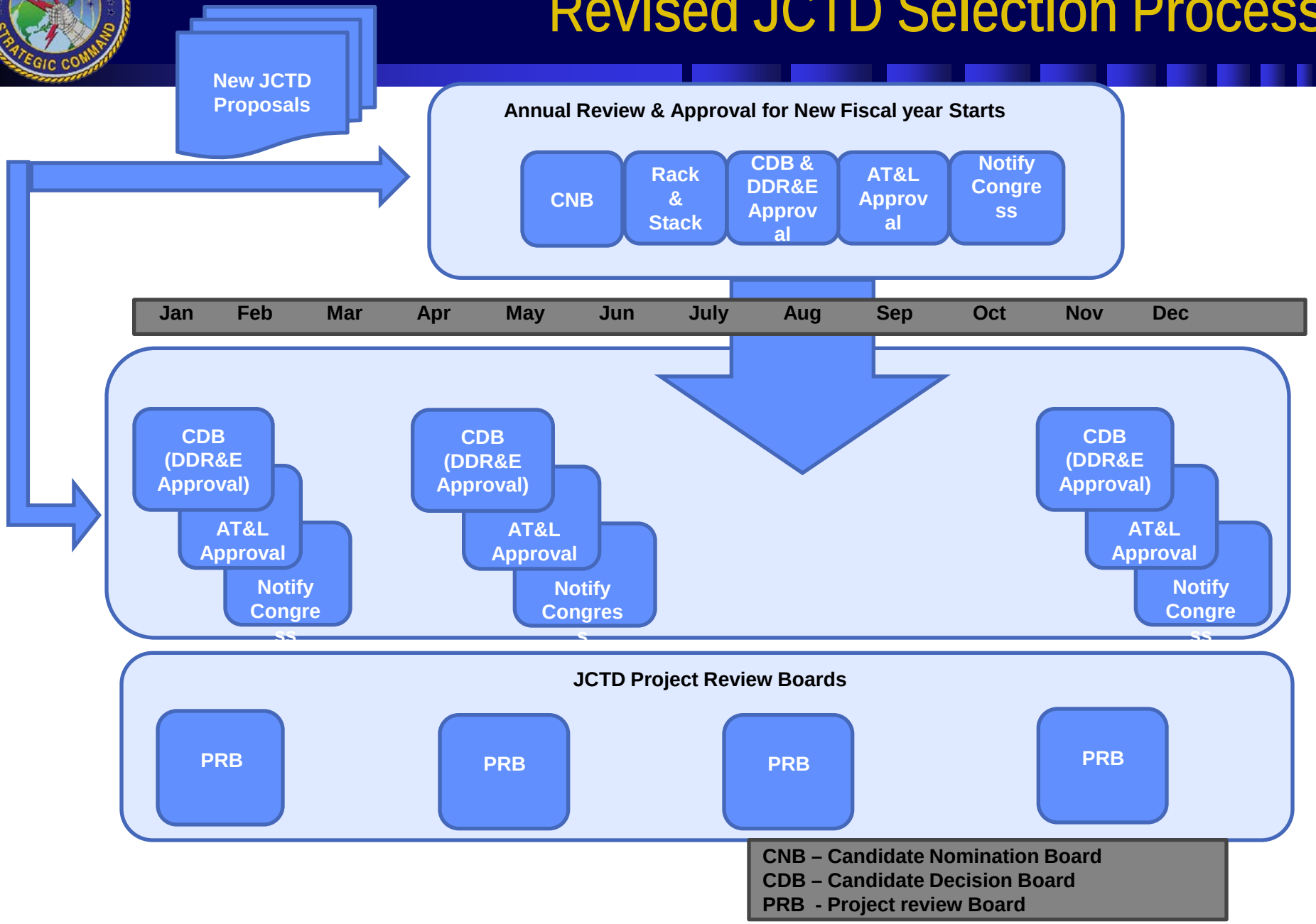
USSTRATCOM S&T Areas

- ***Joint Capability Technology Demonstrations (JCTD)***
- ***Joint Test & Evaluation Program***
  - ***Joint Tests***
  - ***Quick Reaction Tests***
- ***Coalition Warfare Program***

JCTD Overview

- *One-year performance cycles*
- *Tech push from multiple sources*
  - *COCOM needs*
  - *Experimentation gaps*
  - *Promising technologies from National Laboratories, Industry, and Academia…*
- *Quarterly new start Candidate Decision Boards*
- *Outcomes:*
  - *More smaller projects in play early*
  - *Healthy pressure to perform on transparent timelines*
  - *Fewer long term projects*
  - *Higher transition rates*
  - *Better synchronization with COCOM experimentation efforts*
  - *JROC vetting after first spiral demonstration (at 1 year point)*

Revised JCTD Selection Process



Current USSTRATCOM JCTDs

- **Communications AirBorne Layer Expansion (CABLE)**
  - **Enabling communications at the tactical edge by providing a backbone aerial network between and among the Services' platforms and capabilities**
- **Communication/Navigation Outage Forecasting System (C/NOFS)**
  - **Using satellite and ground systems to forecast impacts of Ionospheric Scintillations on Operational communication/navigation System Performance**
- **Global Observer**
  - **Liquid hydrogen powered UAV capable of flying up to 7 days on station to support the Air Force's core mission of persistent ISR operations**
- **Hard Target Void Sensing Fuze (HTVSF)**
  - **Providing a fuze capability to attack today's harder, more complex, and deeper buried targets**
- **Large Data**
  - **Enabling global ISR planning and execution through advanced data search-and- retrieval, very large-scale data storage architecture, and an expanded wideband backbone**

Current USSTRATCOM JCTDs (cont)

- **Internet Protocol Routers in Space (IRIS)**
  - **Transforming the traditional SATCOM transponded bandwidth approach to flexible, routable network services needed by the Warfighter for dominance on the battlefield**
- **Joint Coordinated Real-time Engagement (JCRE)**
  - **Supporting Joint and Combined Operations through web based Net-Centric C2 capabilities that greatly enhances planning and execution across multi-Combatant Commands**
- **Mission Assurance Decision Support System (MADSS)**
  - **Combining hardware and software system to conduct real-time and predictive assessments on the operational impacts due to a disruption (natural or man-made) in the global information grid and its supporting commercial infrastructure**

FY11 USSTRATCOM JCTD Proposals

- **Joint Warfighting Integration of Networks (JWIN)**
  - **Demonstrate Network Management discovery, integration, and monitoring capabilities across Joint Service Tactical Edge domains**
- **Unified Strategic Deterrence Analysis Support (UDASH)**
  - **Decision support capability for analysts and operators that provides global, persistent, 24/7/365 information analysis and awareness for unstructured data**
- **Global Decision Support (GDS)**
  - **An anywhere/anytime (globally available) secure, web-enabled collaborative environment for time critical decision-making to include PEDs**
- **Secure Data Cloud (SDC)**
  - **Highly scalable encrypted (at rest), global data cloud (billions of records) available to authorized community of users**

Joint Test and Evaluation (JT&E)

- **A conduit for warfighters to solve joint operational issues**
  - **Joint Test (2-3 YR)**
  - **Quick Reaction Test (1 YR)**
- **OSD (DOT&E) manages the program; partnerships with Services and COCOMs critical for executing tests**
- **Provides non-materiel solutions to warfighter issues**
- **Works on process improvements so that fielded equipment is used more effectively in a joint operational environment**
  - **Does not assess weapon system performance**
  - **Not a hardware acquisition program**
- **Test products are:**
  - **Improved tactics, techniques, and procedures (TTPs); architectures, and training packages**
  - **New test and evaluation methodologies**

Current JT&E Initiatives

- **USSTRATCOM Joint Test:**
  - **Joint Non-Kinetic Effects Integration (JNKEI)**

Purpose: Develop and evaluate joint planning Tactics, Techniques and Procedures (TTPs) to enable integration of non-kinetic effects, specifically Electronic Attack, Computer Network Attack, and Offensive Space Control during time-constrained planning

- **USSTRATCOM Quick Reaction Test:**
  - **Host Based Security System (HBSS)**

Purpose: Develop a set of TTPs that will give joint network defenders guidance on optimal ways of using HBSS to effectively implement attack prevention, detection, diagnosis, and response capabilities

Coalition Warfare Program (CWP)

- **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, an increased limit from previous years**
  - **CWP funding is to enhance committed contributions by US and foreign partners**
- **Basic Criteria:**
  - **Submission of proposal by DoD organization; nominations accepted from COCOMs, Services, Defense Agencies, or OSD staff**
  - **US and partner cooperative RDT&E content**
  - **Projects must have committed foreign government partners**

- **USSTRATCOM POC: Mr Eric Dernovish, (402-294-0447, DSN: 271)**
  email: dernovie@stratcom.mil

USSTRATCOM S&T Activities

- **2010 USSTRATCOM S&T Conference**
  - **27-29 Jul 2010 (Offutt AFB, NE)**
  - **POC: Mr Tim Fowler (402-232-1421 DSN: 272)**
    Email: fowlerti@stratcom.mil
- **Mission Area Interest List (MAIL)**
  - **Thoroughly catalogues USSTRATCOM mission needs**
  - **Goal: Cross-Reference MAIL to current research efforts within the national S&T field**
  - **Classified SECRET, available on SIPR**
  - **POC: Mr Eric Dernovish, (402-294-0447 DSN: 271)**
    Email: dernovie@stratcom.smil.mil

BACK UPS

Global Strike

JFCC GS (Offutt AFB, NE)

Maj Gen Carpenter

RDML Hennegan

- **Strategic Deterrence**
  - **Lead COCOM for strategic deterrence planning and operations**
  - **Nuclear Operations**
    - **Plan and Execute**
    - **Advocate for Nuclear capabilities**
    - **Support development of Global NC2**
- **Global Strike**
  - **Operational execution**
    - **Kinetic:**

      Nuclear & Conventional
    - **Non-Kinetic**

Space Operations

JFCC Space (Vandenberg AFB, CA)

Lt Gen James

RDML Daniels

Brig Gen Chun

- **Space Operations**
  - **Force enhancement**
  - **Space control**
  - **Space support**
    - **On-orbit operations**
    - **Force application**
- **Warning/Assessment of attacks on space assets**
- **DoD manager for Manned Space Flight Support Ops**

Cyberspace Operations

JFCC NW (Ft Meade, MD)
JTF GNO (Arlington, VA)

LTG Pollett

BG Davis

LTG Alexander

Maj Gen Vautrinot

- **Global Information Grid**
  - **Operate**
  - **Defend**
- **Offensive Operations**

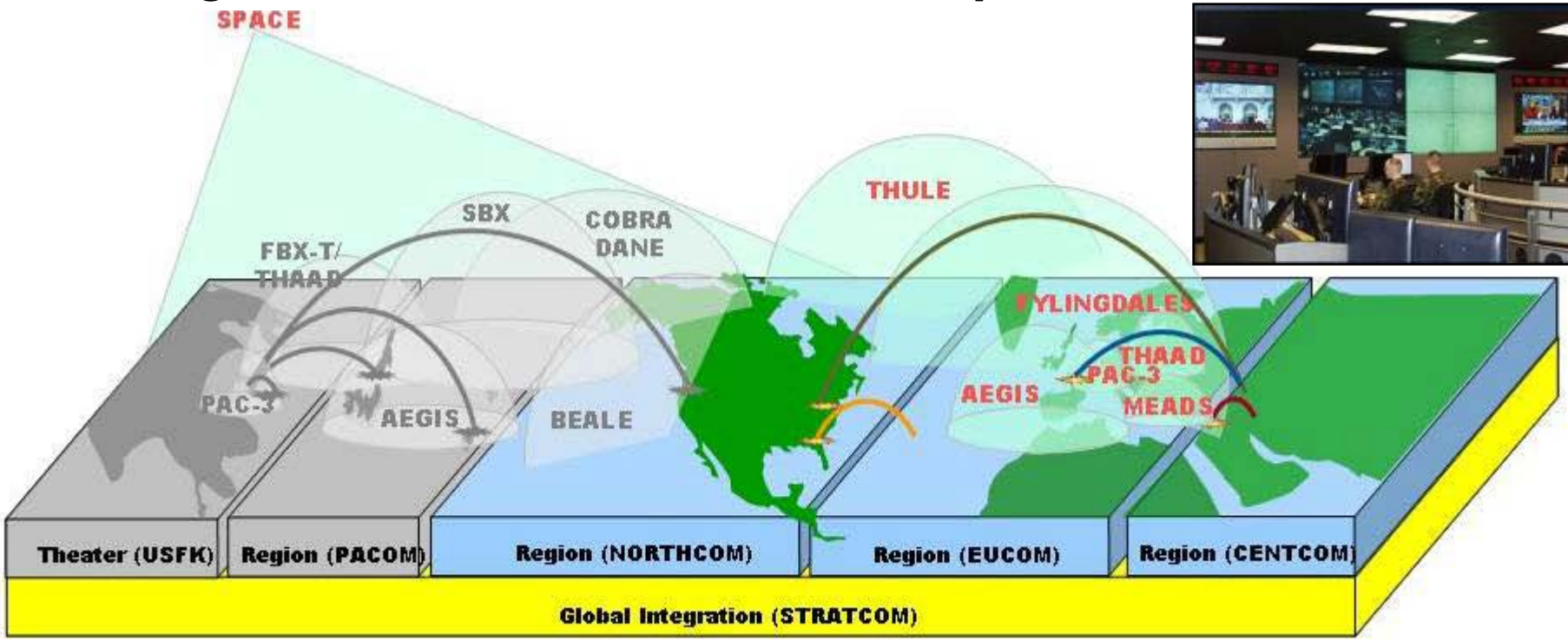
Missile Defense

JFCC IMD (Schriever AFB, CO)

LTG Campbell

CAPT Bartkoski

- **Integrates & synchronizes global MD planning across GCCs**
- **Develops MD Concepts of Operation**
- **Warfighter advocate for MD/MW capabilities**



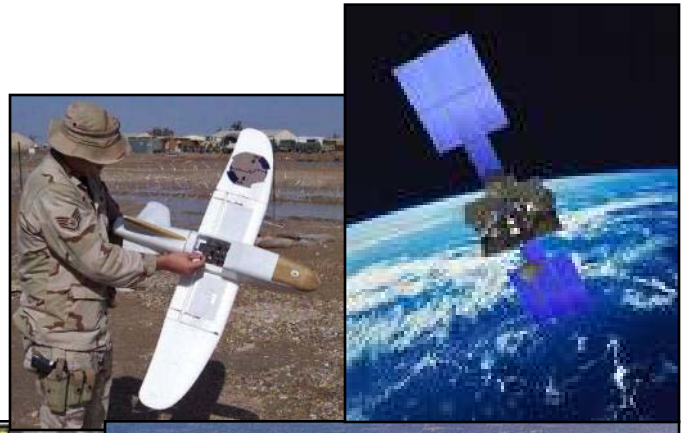
Intelligence, Surveillance, & Reconnaissance

JFCC ISR (Bolling AFB, DC)

- **Recommend allocation of ISR assets**
  - **Combatant Commands**
  - **Combat Support Agencies**
- **Advocate for ISR capabilities**

LTG Burgess

Maj Gen Hansen



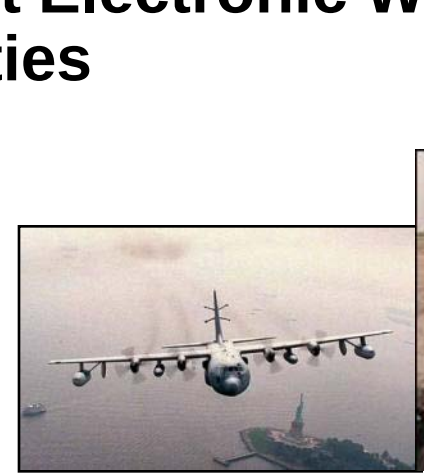
Information Operations

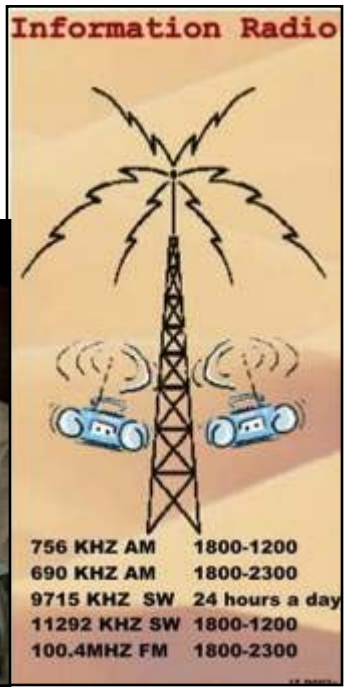
JIOWC - (Lackland AFB, TX)

Mr. Johnson

COL Crabb

- **Cross-AOR IO Operations**
  - **Plan, Coordinate, Execute**
- **Support other COCOM IO Planning**
  - **Operations Security (OPSEC)**
  - **Psychological Operations (PSYOP)**
  - **Military Deception (MILDEC)**
- **Advocate joint Electronic Warfare (EW) capabilities**





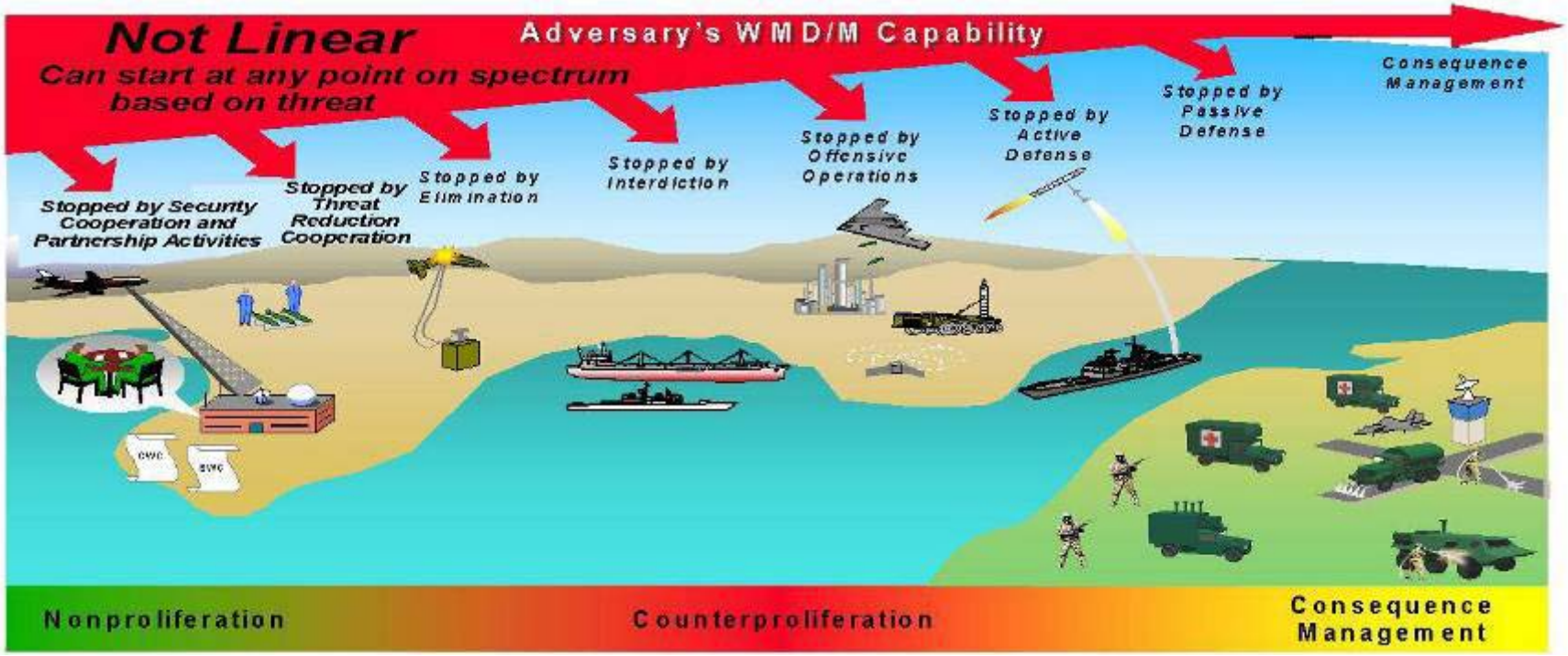
Combating Weapons of Mass Destruction

SCC WMD (Ft Belvoir, VA)

- **Synchronize COCOM planning efforts**
- **Advocate for CWMD capabilities**

Mr. Myers

Maj Gen Howlett



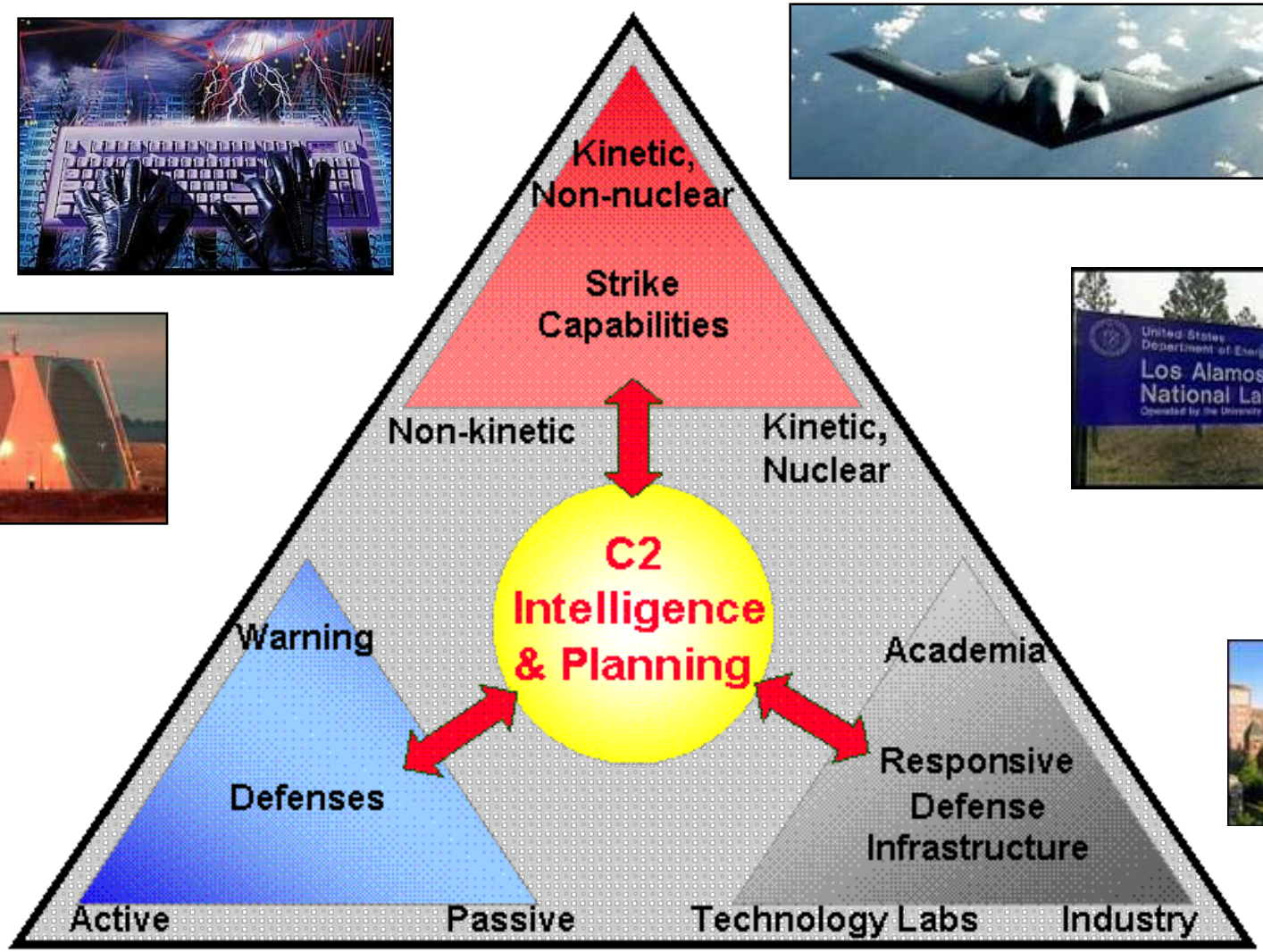
Global Innovation and Strategy Center

GISC (Omaha, NE)

Col Gilbert

- **Mechanism to rapidly utilize world-class expertise to help solve our toughest problems and provide:**
  - **Unique global strategies**
  - **Timely courses of action**
  - **New operational tools and analyses**

The New Triad



Operationalizing the Triad

Distributed Command and Control Network

Prompt Global Strike

Intelligence, Surveillance, and Reconnaissance

Global Sensor Integrated Network

Modernized Warhead

Missile Defense

Operationally Responsive Space

2009/2010 USSTRATCOM Priorities

Assure the well-being of our people

Sustain efforts to strengthen USSTRATCOM's Nuclear capabilities and readiness

Improve execution of and integration among Deterrence, Space and Cyberspace Lines of Operation

Optimize targeted global Integrated Missile Defense, Intelligence, Surveillance and Reconnaissance, Combating Weapons of Mass Destruction and Information Operations to support USSTRATCOM lines of operation and other DoD/Joint Forces Commanders

Global Security for America