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Joint Capabilities and Disruptive Technologies

MG MICHAEL A. VANE

**Vice Director for Force Structure,
Resources and Assessment, J-8**

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AGENDA

- **Strategic Environment**
- **Key Capabilities**
- **Acquisition Challenges**
- **JROC Initiatives**

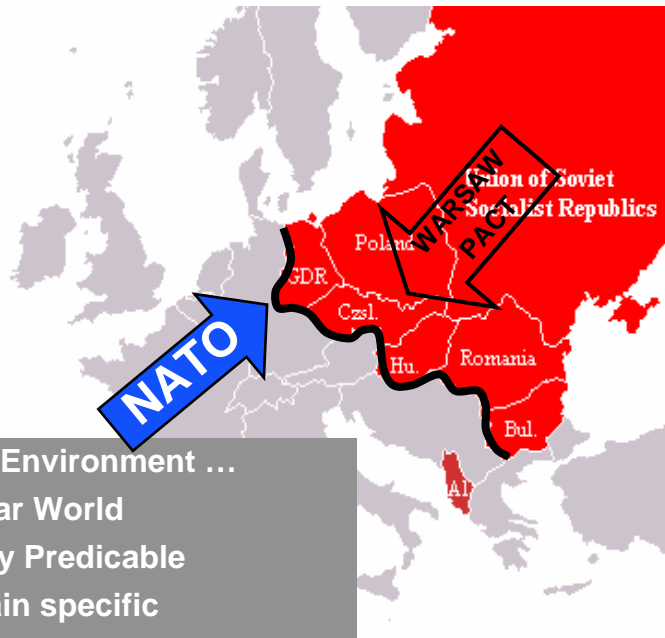
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Capabilities Based Planning (CBP)

Why Change?

Requirements Generation System

~30 Years with RGS



Threat Environment ...

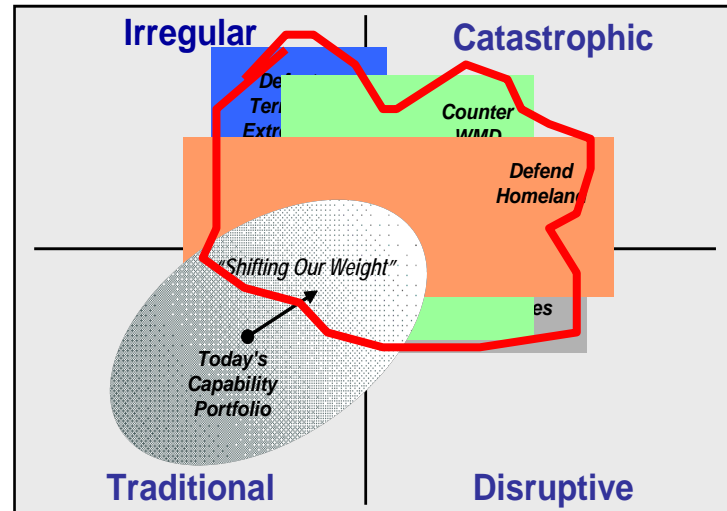
- Bipolar World
- Mostly Predictable
- Domain specific

➤ System v. System

Platform Centric Requirements Generation System

Capabilities Based Planning
3 Years with JCIDS

QDR Objective – Shift in Focus



Continuing the reorientation of military capabilities and implementing enterprise-wide reforms to ensure structures and process support the President and the warfighter

CCJO Characteristics of the Joint Force

Knowledge Empowered	Enduring/Persistent
Networked	Precise
Interoperable	Fast
Expeditionary	Agile
Adaptable/Tailorable	Lethal

JCIDS is a Deliberate Process to Deliver an Adaptable Force



DISRUPTIVE DEFINED

- **“Disruptive challenges from state and non-state actors who employ technologies and capabilities (such as biotechnology, cyber and space operations, or directed energy weapons) in new ways to counter military advantages the United States currently enjoys.”**
 - National Security Strategy, March 2006
- **“Disruptive challenges may come from adversaries who develop and use break through technologies to negate current U.S. advantages in key operational domains”**
 - National Defense Strategy, March 2005
- **“Dual use civilian technologies, especially information technologies, high-resolution imagery and global positioning systems are widely available. These relatively low cost, commercially available technologies will improve the disruptive and destructive capabilities of a wide range of state and non-state actors.”**
 - National Military Strategy, 2004



KEY CAPABILITIES - QDR

➤ **Disruptive Challenges**

- **Electronic Warfare**
- **Cyber Warfare**
- **Counter Space**
- **BM + CM**
- **Next generation torpedoes**
- **Adversary Submarines**
- **Strategic nukes from land and sea based system**
- **Theater UAVs**

➤ **Key Tools**

- **Exercises**
- **Experimentation**
- **Training**
- **Info Sharing**
- **Intel Cooperation**
- **Armaments Cooperation**
- **Security Assistance**
- **Humanitarian Assistance**
- **Defense Support to Public Diplomacy**



KEY CAPABILITIES – QDR (Slide 2)

- **Shaping Choices of Countries at Crossroads**
 - **Improve the capacity of partner states**
 - **Reduce partner states vulnerabilities**
 - **Integration of defensive systems**
 - Intel Sensors
 - Communication Networks
 - Information Systems
 - Missile Defense
 - Undersea Warfare
 - Counter Mine
- **US diversify basing posture to promote constructive bilateral relations, mitigate anti-access, and offset potential political coercion**
 - **Mobility/Logistic Support**
 - **Operational Enablers – ISR, C2, Communications**
 - **New TRIAD**



SHARED ACQUISITION CHALLENGES

- **Realistic performance requirements**
- **Ensure COCOM needs are met**
- **Focus on most important issues**
- **Gain senior leader input earlier in development cycle**



JROC INITIATIVES

- **Senior leaders involved earlier in the process**
 - **Technical, Requirements, Funding Insights**
- **Concept Decision**
 - **Improve integration of key decision processes—Requirements, Acquisition, PPBE**
 - **Determine optimum investment strategy**
 - **Balance capability needs with technical feasibility and affordability**
- **Improved, more consistent KPP selection process**
 - **Mandated Materiel Readiness KPP with supporting Reliability and Ownership Cost KSAs**
 - **Increased focus on Systems Training and Energy Efficiency as potential selectively applied KPPs**

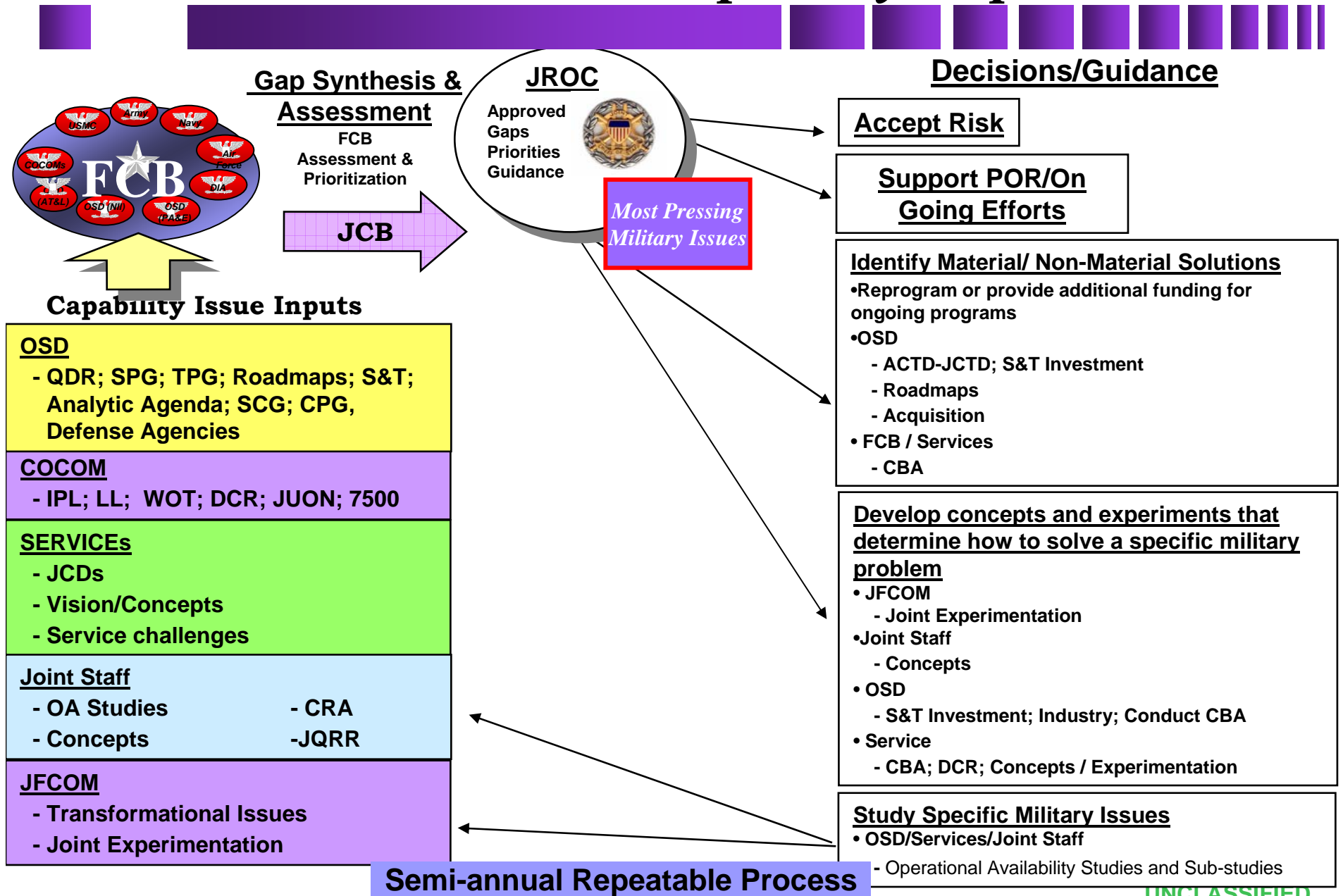


RAPID ACQUISITION

- **Joint Urgent Operational Need (JUON)**
 - COCOM identified urgent need involved in an ongoing named operation
 - Inherently Joint
 - Outside of established Service rapid fielding processes
 - DOTMLPF solution if left unfilled:
 - Could result in loss of life
 - Near term mission failure
 - <ACAT 1
- **Immediate Warfighter Need (IWN)**
 - A JUON requiring 120 days or less material or logistics solution

➤	JUON Requests (FY05-06)	
➤	C2 Net Centric	
➤	Blue Force Trackers	491
➤	Radios	167
➤	SATCOM Equipment	38
➤	Spectrum Analyzers	85
➤	Battlespace Awareness	
➤	Unmanned Aerial Systems	204
➤	Aerostat	9
➤	Sensors	36
➤	Full Motion Video	535
➤	Force Protection	
➤	Robots	664
➤	Sensors	335
➤	CREW	26,930
➤	IR Defeat Systems	3,498
➤	Robot Repeaters	435
➤	Focused Logistics	
➤	JPDADS	38
➤	Generators	18,889
➤	Vehicles	618
➤	Float Bridge	1

Capability Gap Assessment





SUMMARY

- **The strategic environment has changed**
 - *Deliberate process to deliver an adaptable force*
 - **Process evolved from requirements driven to capabilities based**
 - *Translate guidance/policy into Joint Force capability*
 - **Early insights by senior leaders enhance acquisition stability**
 - *Realistic requirements to meet warfighter needs*
 - **MPMI provides the focusing construct**
 - *Top-down guidance to solve pressing military issues*