



# USJFCOM J8

## Joint Capability Development

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# Joint Capability Development Directorate



## “Joint Integrator”- UCP '08

- Joint Requirements
- Joint Architectures
- Data Strategy
- Joint Integrated Fires
- Multi-National Capability Development

## C2 Capability Portfolio Management (C2 CPM)

- Collaborative, inclusive partnerships with COCOMs/Services/Agencies/M-Natl
- Engage across DOTMLPF-P Spectrum
- Increase interoperability & operational effectiveness for C2 stakeholders

## Operational Sponsor for Global C2 Systems-Joint (GCCS-J) and Joint Command and Control (JC2)

- Direct coupling of capability requirements to material developers
- End-to-End Warfighter Engagement
- Holistic DOTMLPF-P Integration Focus

## Joint Systems Integration Center (JSIC)

- A “unique environment” that brings together:
  - Operational experience, technical expertise and acquisition program managers
- Warfighter Utility and Interoperability Assessments
- Technology Assessment and Integration

DOTMLPF-P = Doctrine, Organization, Training, Material, Leadership & education, Personnel, Facilities and Policy

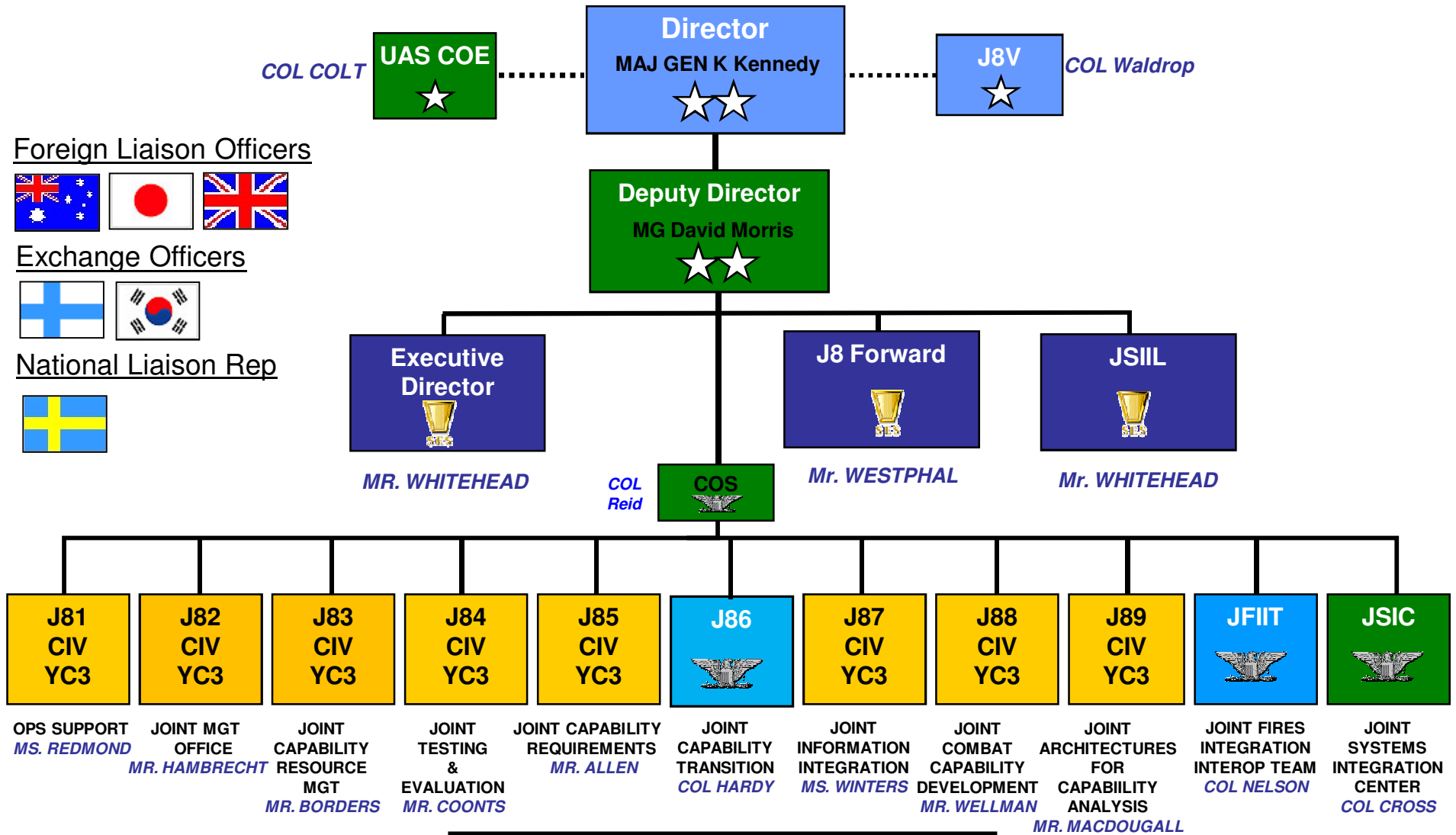
UCP = Unified Command Plan



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*Leading Transformation*

# J8 – Joint Capability Development



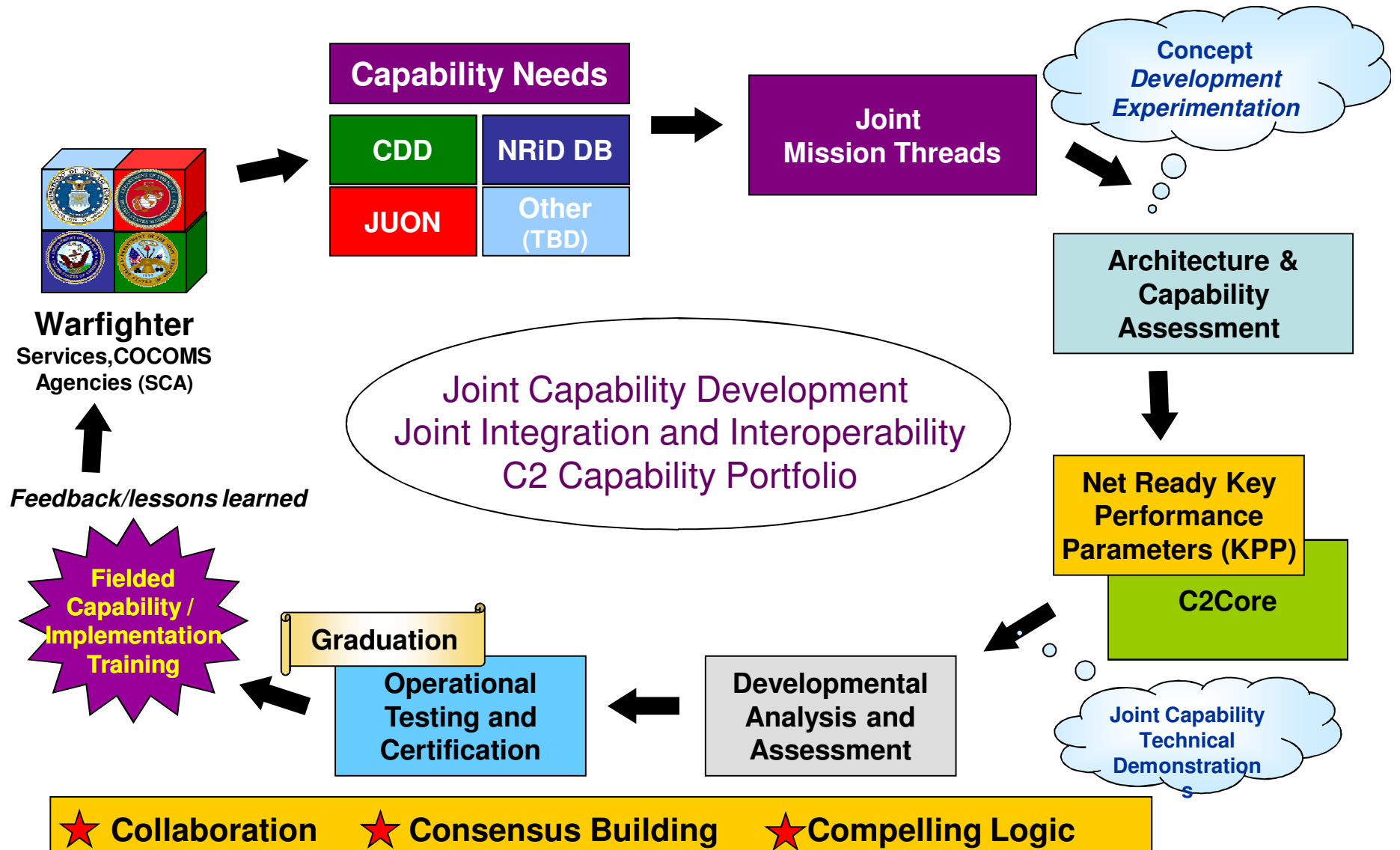
**634 TOTAL PERSONNEL**  
J8 proper (301), JFIIT (135) and JSIC (198)



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Leading Transformation

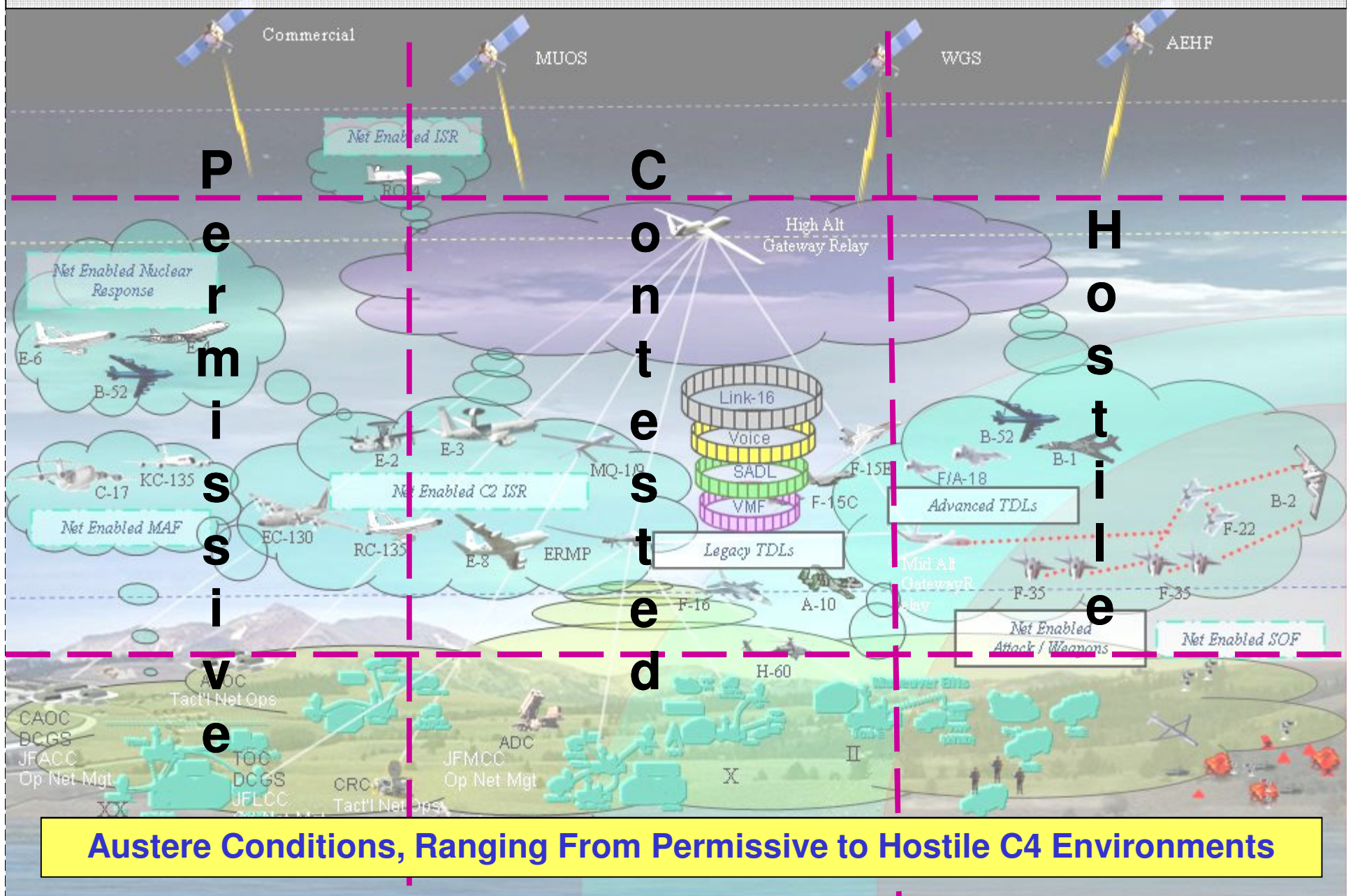
# Joint Capability Development Lifecycle



JUON = Joint Urgent Operational Needs      CDD=Capability Development Document  
 NRiD DB= Net-Centric Requirements Integration Document Data Base

# Focus is the Warfighter's Tactical Edge

## Very Technical / Very Complex



# “Swim Lanes”

## Advancing “Critical Portfolio Issues”

	★★★★★ JROC	★★★★★ JROC	★★★★★ JROC	★★★★★ JROC	★★★★★ DAWG	★★★★★ DAWG	★★★★★ DAB/ITAB
<b>J F C O M</b>	★★★ JCB/ OPSDEPS	★★★ C2 JCB/ OPSDEPS	★★★ C2 JCB	★★★ SWarF	★★★ C2 CIB	★★★ PA&E	
	★★ JCAS ESC	★★ CID/BFT ESC	★★ C2 FCB	★★ SWarF Prep	★★ C2 SSG		★★ OIPT
	JCAS ESC WG	CID/BFT WG	C2 FCB WG	SWarF WG	SSG/CIB WG	Issue Teams	IIPT/FIG WG

**Collaboratively developed CRITICAL PORTFOLIO ISSUES  
Six month forecast - Ample opportunity for C/S/A to influence**

- JCAS/CID/BFT ESC = Joint Close Air Support/ Combat ID/Blue Force Tracking Executive Steering Committee
- JROC = Joint Requirements Oversight Council
- C2 JCB = C2 Joint Capabilities Board
- C2 FCB = C2 Functional Capabilities Board
- SWarF = Senior Warfighter Forum
- DAWG = Deputy’s Advisory Working Group
- ★★★★★ = Senior Executive Service (SES)
- C2 CIB = Capability Integration Board
- C2 SSG = Senior Steering Group
- DAB/ITAB = Defense Acquisition Board / IT Acq Bd
- OIPT = Overarching Integrated Product Team
- IIPT/FIG = Integrating Integrated Product Team / Focused Integration Group



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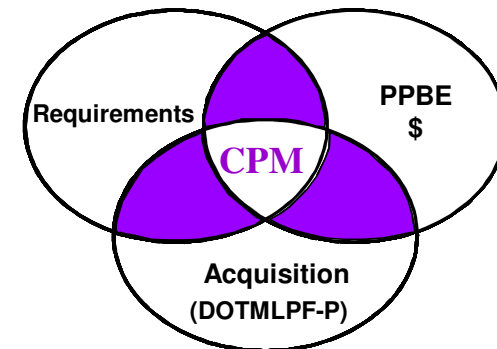
# Capability Portfolio Management (CPM)

“Focus on *capability-based* planning and management efforts to better enable strategic choice and improve ability to make capability tradeoffs”

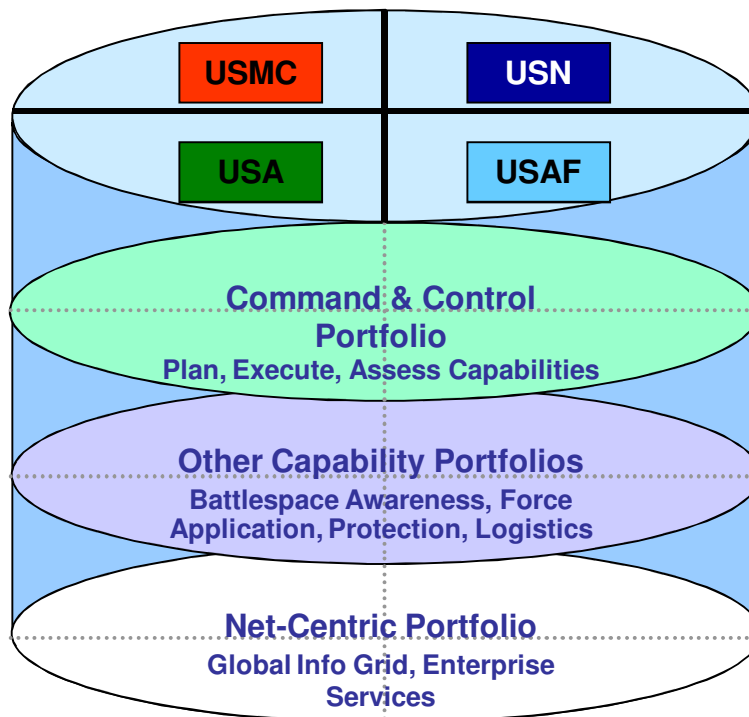
--Quadrennial Defense Review '06

- Four initial capability areas selected in Sep 06:

- Command and Control (C2)
- Net-Centric Operations (NC)
- Battlespace Awareness (BA)
- Logistics (L)



*Assess, Coordinate,  
Harmonize & Integrate*



- C2 Portfolio Interfaces:

- COCOMs/Services/Agencies
- OSD & Joint Staffs
- Multi-National Partners
- C2 Intra-Portfolio Issues
- Cross-Portfolios Issues

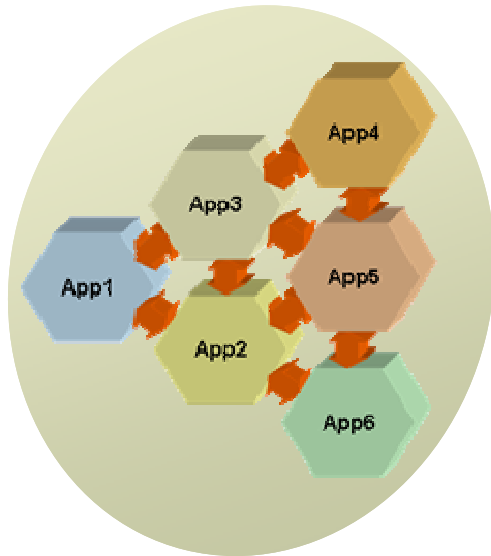


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# Future Joint Command and Control Migration to Net-Enabled Services

## Current Capabilities

### Global Command and Control System (GCCS)



## Platform-Centric Characteristics

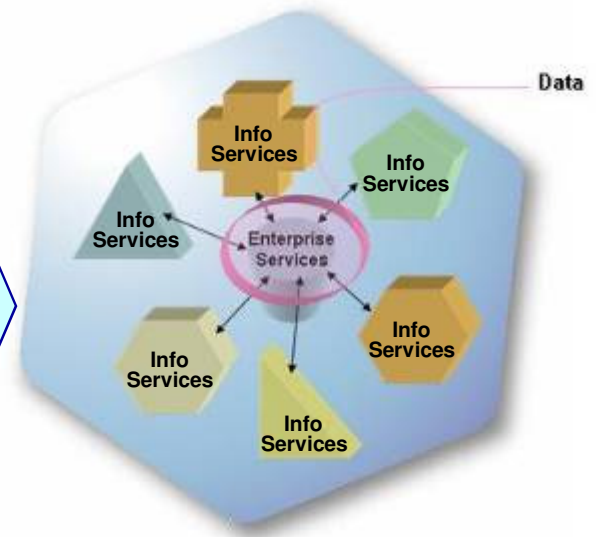
- Systems oriented
- Tightly integrated functionality
- Man–Machine interface
- Years on system development

## Evolving Environment

- Share situational awareness and understanding
- Fuse intelligence products / data
- Enhance collaborative decision-making and planning
- Promote coalition interoperability
- Support decentralized execution

## Future Capabilities

### Future Joint C2



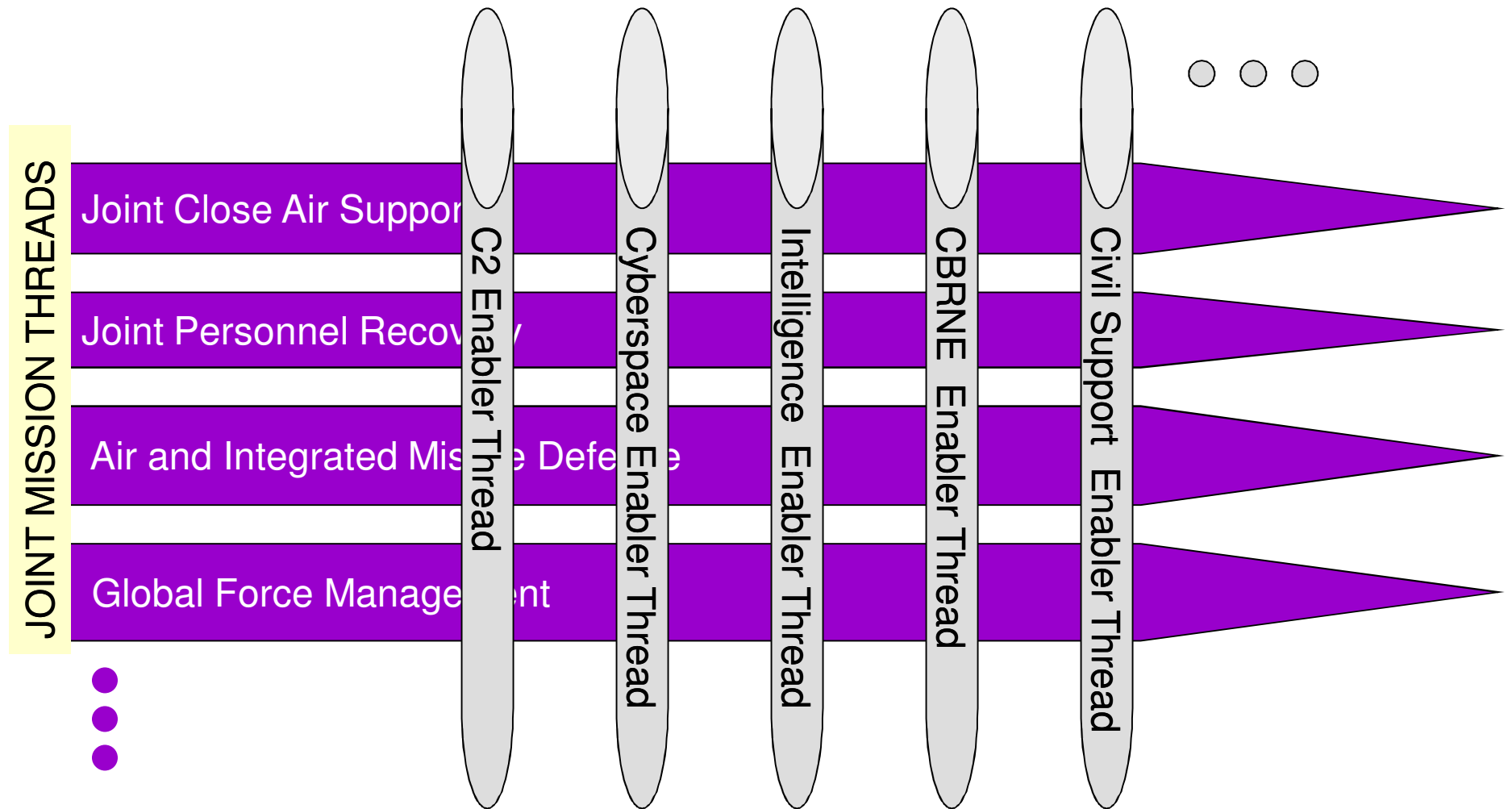
## Net-Enabled Characteristics

- Service Oriented Architecture
- Loosely coupled functionality
- Machine–Machine interface
- Iterative, parallel processes



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# JMTs and Enablers



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# Joint Mission Thread Development

## Initial JMT List

- Counter IED
- Joint Close Air Support (JCAS)
- Air and Missile Defense
- Joint Personnel Recovery (JPR)
- CND/CNA/CNE
- EW/EA
- CWMD
- Global Force Management
- Medical Evacuation
- Joint Suppression of Air Enemy Defense (JSEAD)
- Joint Fires
- Time Sensitive Targeting
- Anti Air Warfare
- Interdiction
- Counter Mine
- Mine Operations
- Counter Drug
- Amphibious Assault
- Tactical Airlift
- PSYOP
- Maritime Interception
- Defensive Countermeasures
- Military Deception
- Non Combat Evacuation
- Non-Lethal Attack

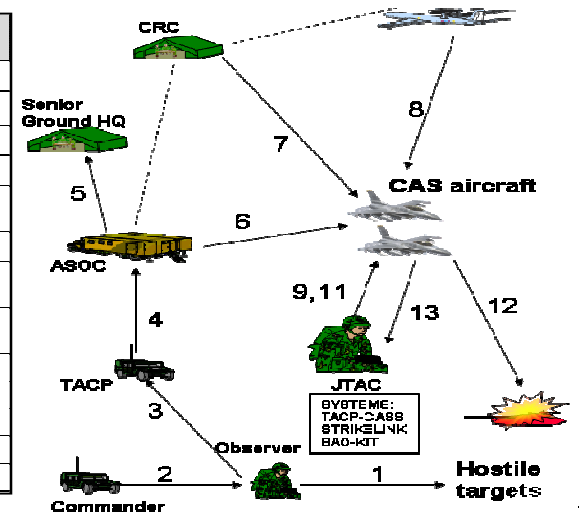
FY10

FY11-14

**Joint Mission Thread (JMT):** an operational and technical description of the end-to-end set of activities and systems that accomplish the execution of a *joint mission*. (CJCSI 6212.01E)

## Joint Close Air Support

Mission Event No.	Description
1	Unit detects target
2	Commander decides to request CAS
3	Unit notified TACP
4	TACP passes request to ASOC
5	ASOC coordinates with senior ground HQs which approve request
6	ASOC assigns on-call aircraft
7	CRC send aircraft to contact point (CP)
8	AWACS passes critical updates to aircraft
9	JTAC briefs aircraft
10	Aircraft depart initial point (IP)
11	JTAC controls CAS aircraft
12	Bombs on target
13	Assessment



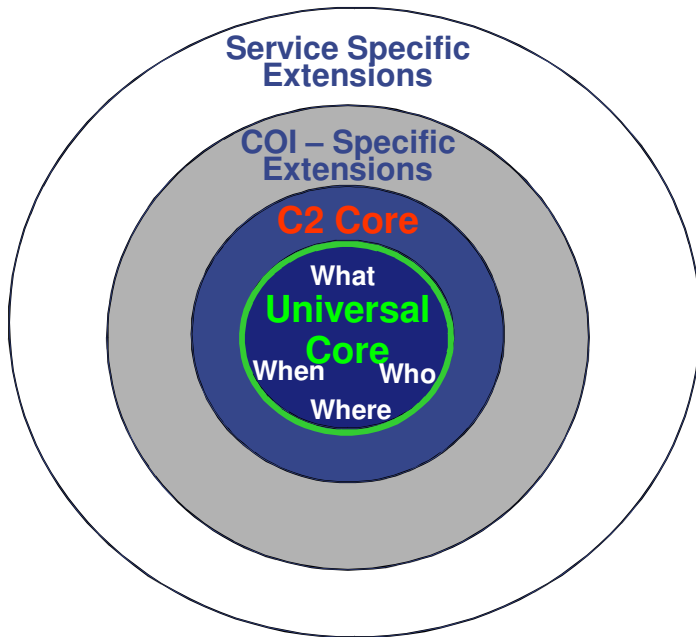
**Joint Context to Clarify Joint Requirements & Improve Interoperability and Integration**



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# Migrating Today's Capability

- Key Enabler: Visible, Accessible, Discoverable, Understandable & Trusted Data
- 232 Authoritative Data Sources supporting 772 Information Needs
- Status of Visibility/Accessibility Today = **18%** of Information Needs



Percent ADS Exposed to Meet Need Dates by FY (as of 4-27-09)

	FY10	FY11	FY12	FY13	FY14
Service A	63% Y	69% Y	69% Y	69% Y	69% Y
Service B	76% Y	79% Y	80% G	80% G	80% G
Service C	19% R	57% R	71% Y	78% G	82% G
Service D	27% R	30% R	74% Y	74% Y	75% Y
Agency	100% G	100% G	100% G	100% G	100% G
Other	34% R	37% R	37% R	37% R	39% R
Total	55% R	64% Y	68% Y	70% Y	71% Y

**Building Consensus to Standardize Approach: Authoritative Data Sources, Data Standards, Timelines... A Joint Requirement?**



# ***J85 Joint Integrated Fires Division***

## ***Areas of Emphasis***

- **Combat Identification (CID)**
- **Friendly Force Tracking (FFT)**
- **Joint Close Air Support (JCAS)**
- **Joint Fires**
- **Integrated Air and Missile Defense (IAMD)**
- **Unmanned Aircraft Systems (UAS)**
- **Coalition Combat ID Military Utility Assessments (Bold Quest)**
- **JC2 Capability Portfolio Management (CPM)**
  - **Integrated Fires Cell Focus Integration Team (FIT)**
- **NATO Subcommittee 5/7**
  - **FFT Ad Hoc Working Group**

***Maximizing Combat Effectiveness while Minimizing  
Fratricide and Collateral Damage***



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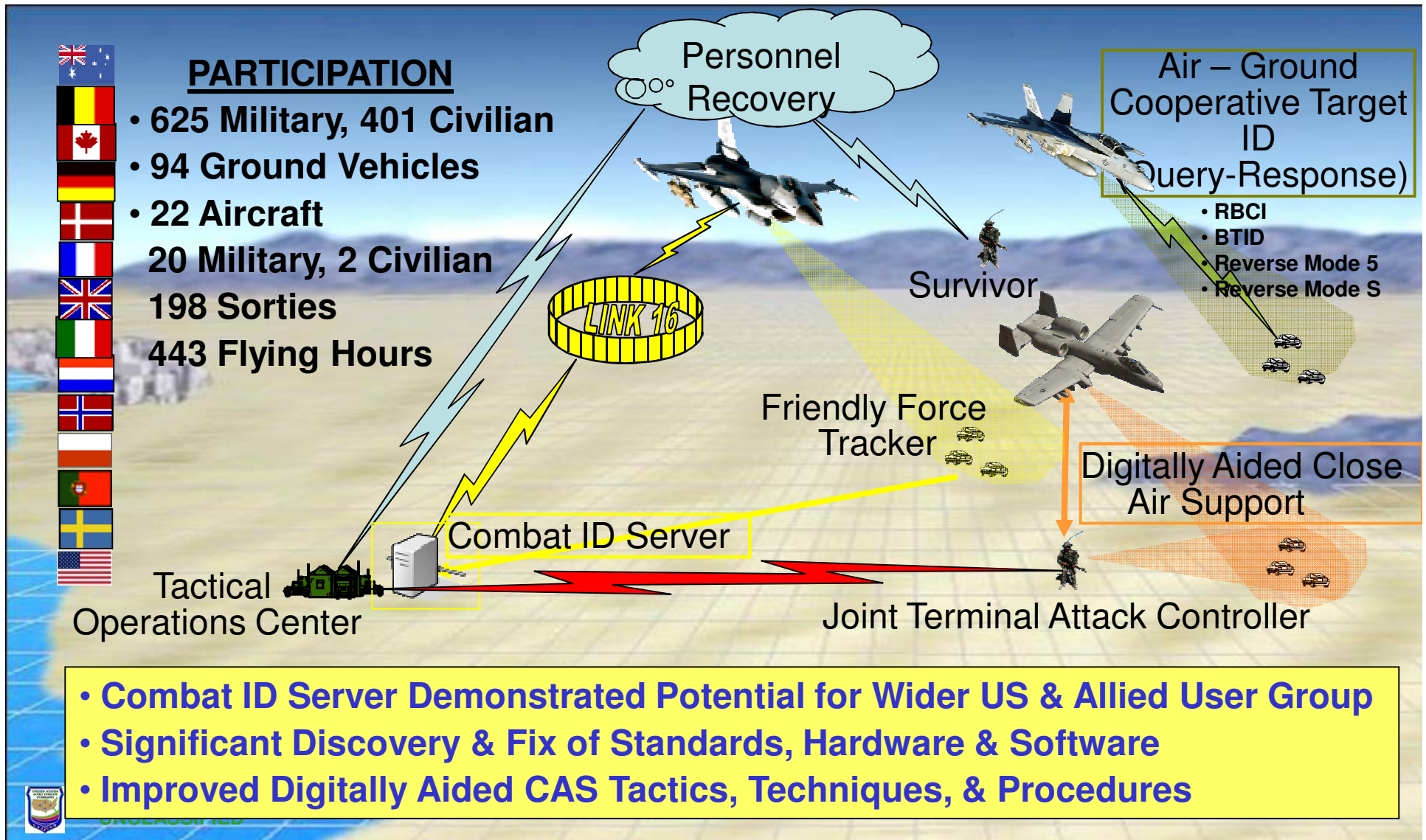
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# Coalition Combat Identification Bold Quest 2009



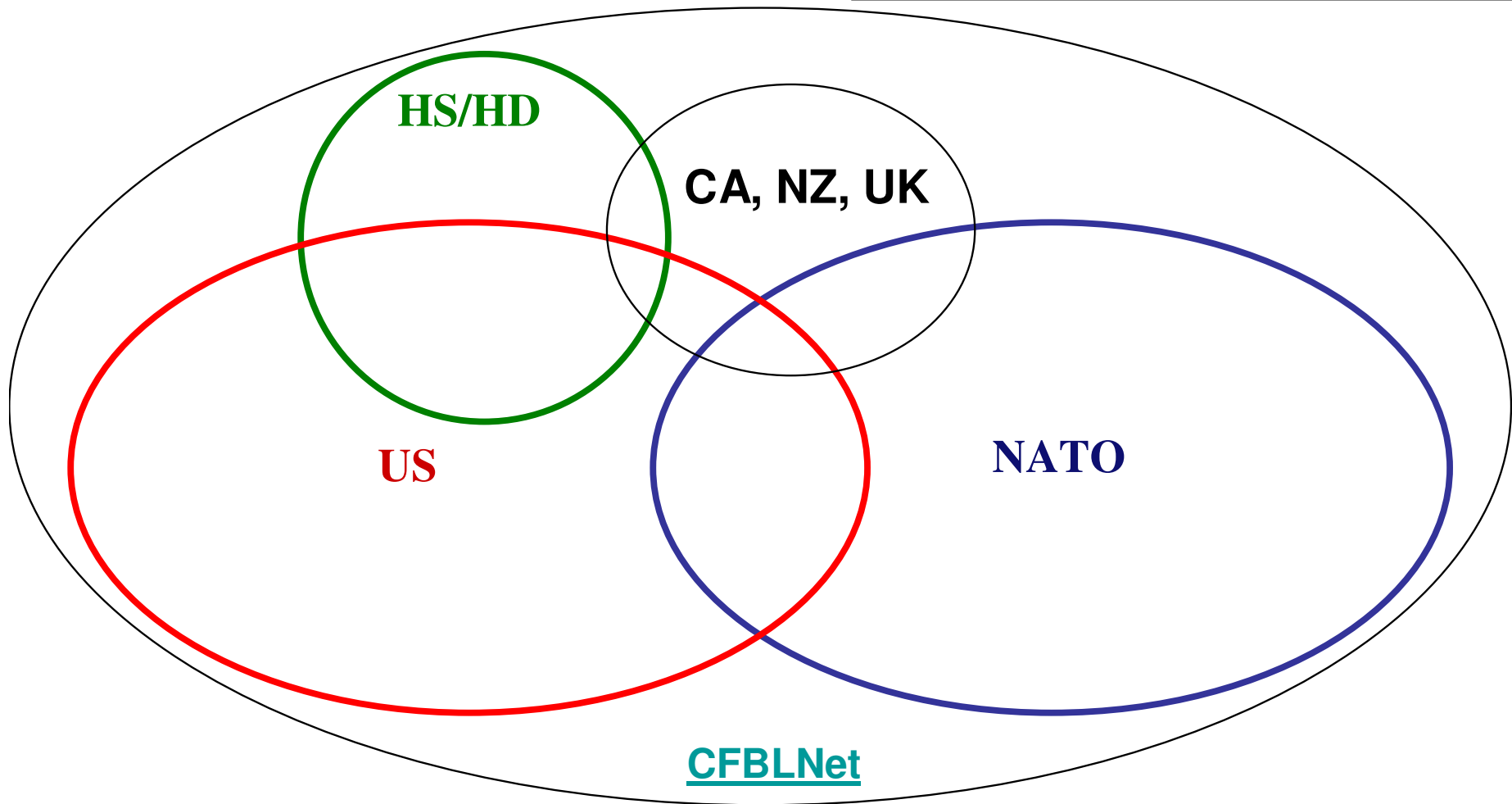
## Air-to-Ground Combat Identification and Info Exchange



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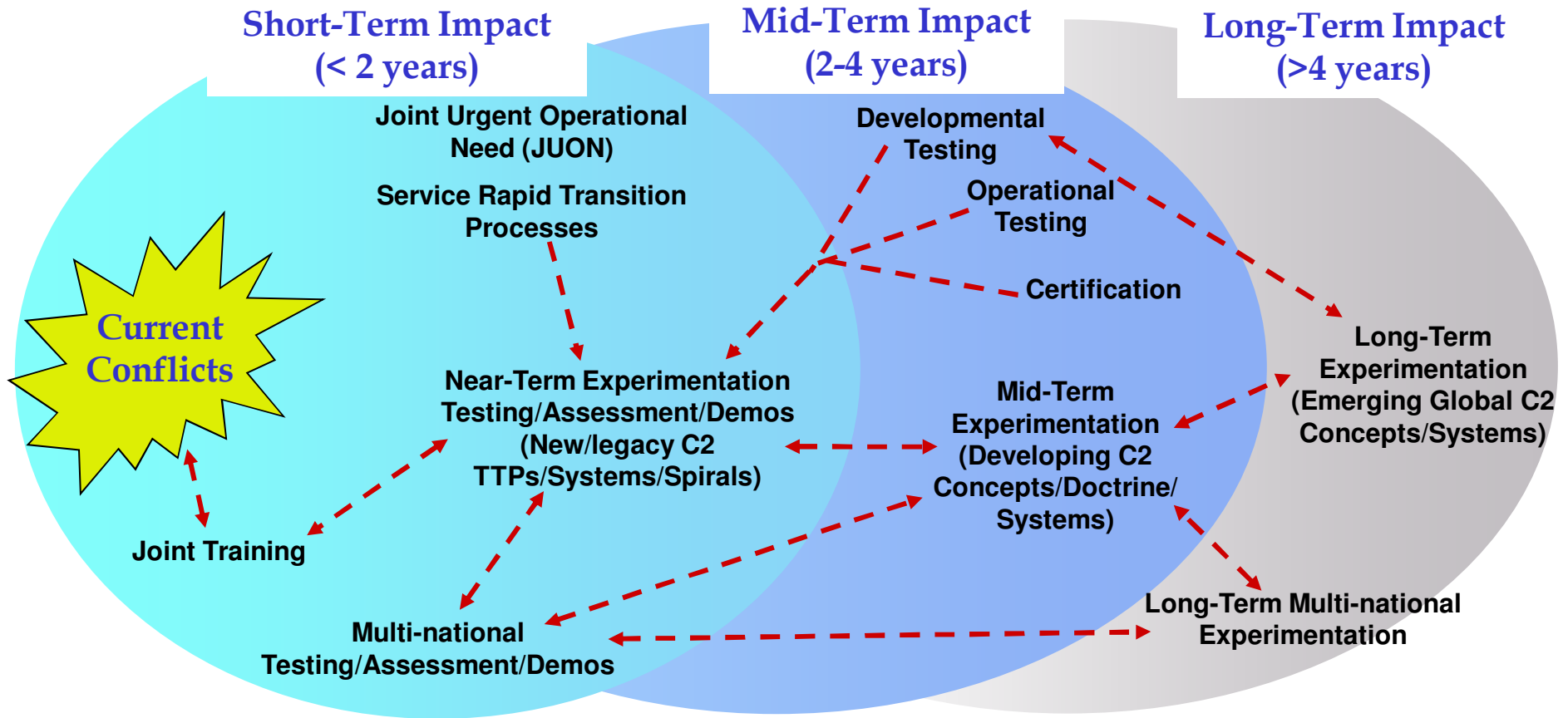
# *Coalition Warrior Interoperability Demonstration (CWID)*

- US/Coalition: 41 Interoperability Trials (ITs) & 12 Site Demos
- NATO: 98 ITs & Experiments
- UK: 31 Interoperability Trials



**One CWID / Different Venues / Complimentary Objectives**

# Joint Systems Integration and Interoperability Lab (JSIIL)



## Vision

A consortium of Services, COCOMS, and Agencies across the Department identifying and solving leader-centric, net-enabled C2 and cross-portfolio issues; provides persistent assessment and end-to-end capability-based testing to objective standards across the DOTMLPF-P spectrum to enhance the Joint warfighter's readiness.

## Mission

The Joint Systems Integration and Interoperability Lab (JSIIL) improves leader-centric, net-enabled C2 and cross-portfolio performance for the Joint Warfighter through partnership of the assessment, testing, certification, training, and experimentation communities.



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# Questions and Discussion



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