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JOINT COMMAND AND CONTROL WARFARE CENTER

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This briefing presents the mission, history, organization, functions, and current operational support of the Joint Command and Control Warfare Center (JC2WC). Mission areas include Electronic Warfare, Military Deception, Operational Security, Psychological Operations, and Physical Destruction. (Note, this organization has been renamed the Joint Information Operations Center (JIOC) and reports to USSPACECOM).

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JOINT C2W

Operational Security

Military Deception

Psychological Operations

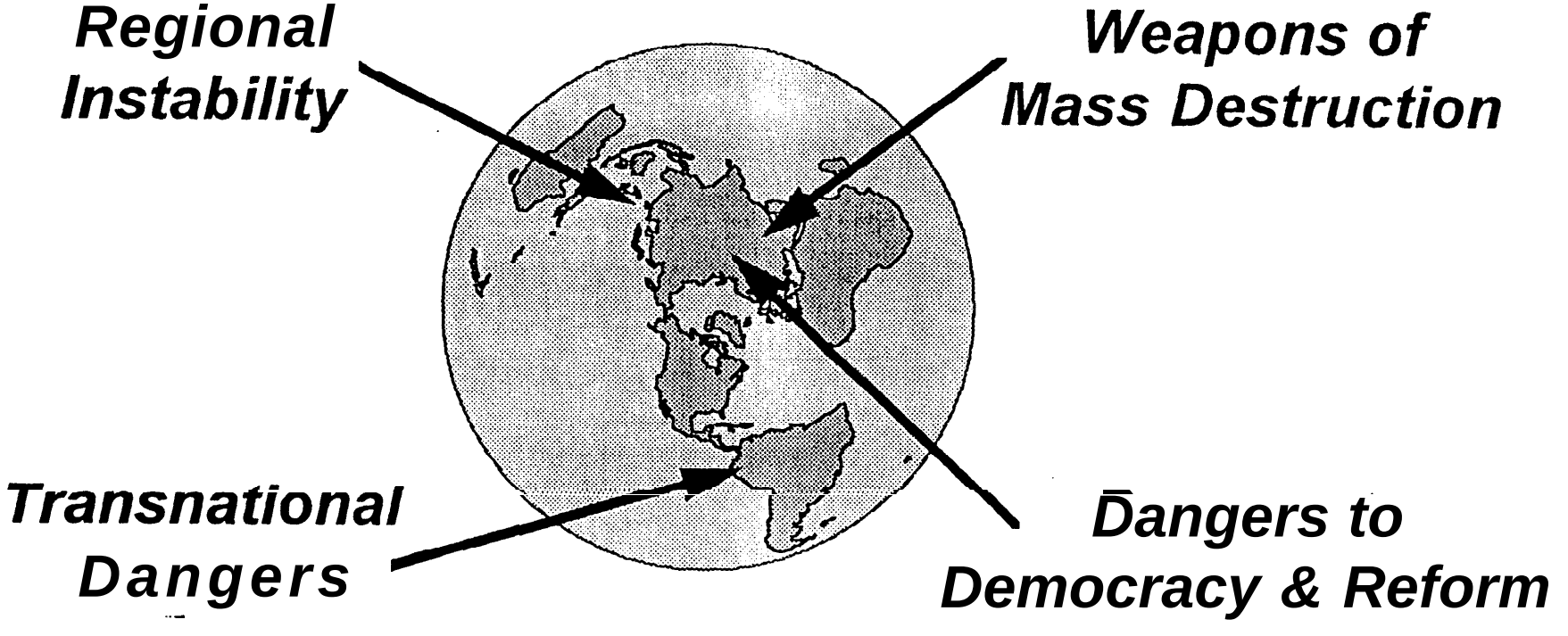
Electronic Warfare

Physical Destruction

VICTORY!

The Essential First Step in Operations

THE WORLD TODAY

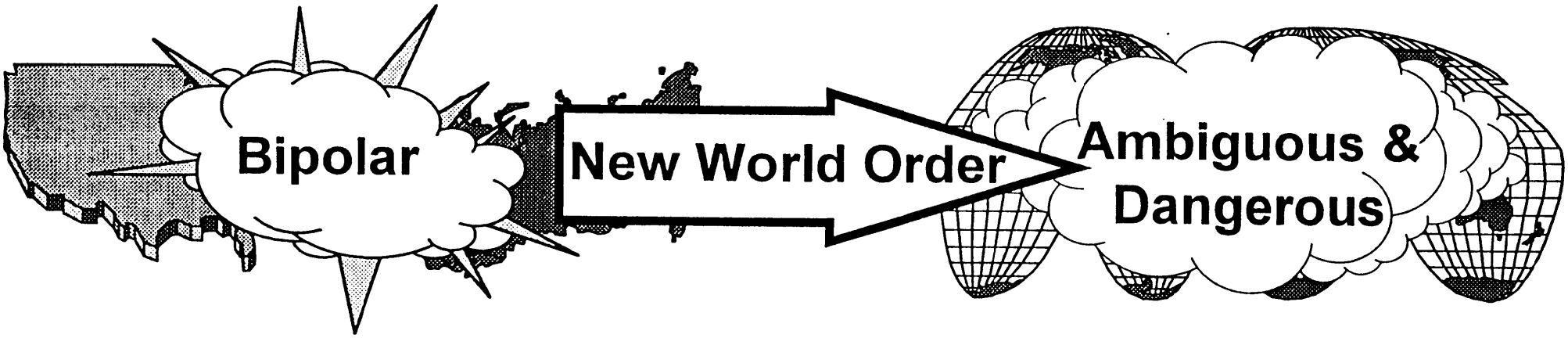


Promote Stability & Thwart Aggression

NATIONAL MILITARY STRATEGY

Peacetime Engagement

Deterrence & Conflict Prevention



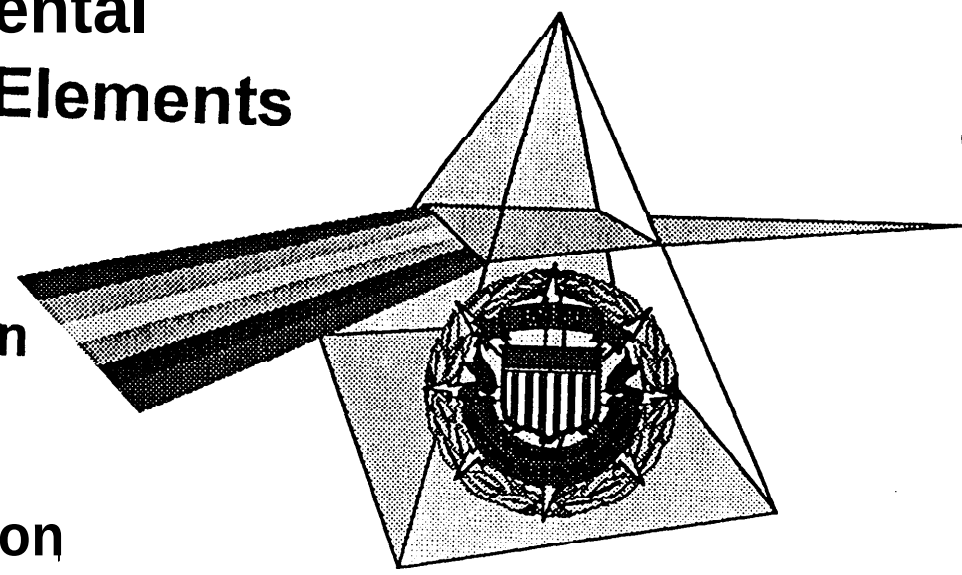
Fight & Win Our Nation's Wars

Overseas Presence & Power Projection

BRINGING FOCUS TO THE BATTLEFIELD

Fundamental Warfighting Elements

- OPSEC
- Deception
- PSYOP
- EW
- *Destruction



Command & Control Warfare

Winning the C2W Battle is Key to Success...

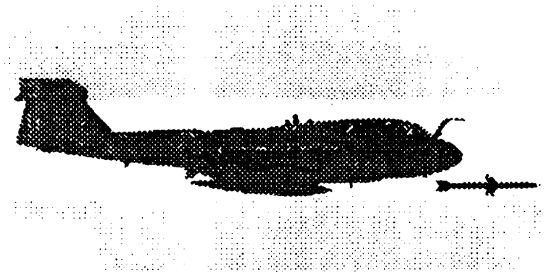
MISSION

Our mission, as the joint center of excellence, is to enable the JCS and the combatant commanders to plan and execute CZW operations.

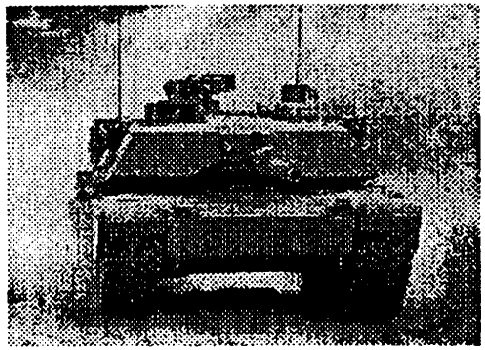
JOINT COMMAND AND CONTROL WARFARE CENTER

- Established September 1994
- 166 Personnel
- Joint Center of Excellence which provides direct Command and Control Warfare (C2W) support to operational commanders
  - Augmentation teams
  - C2W Knowledgebase oversight
  - Automated C2W decision aids
  - Doctrine development
  - Modeling and simulation

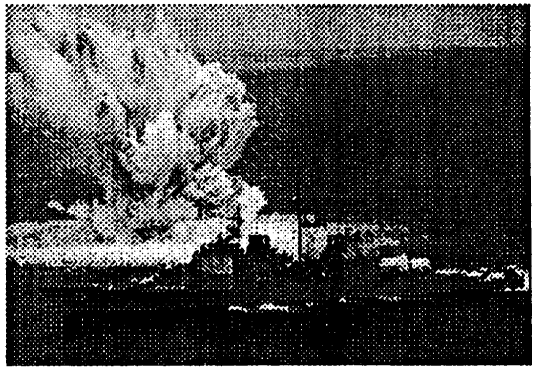
PERSONNEL



10 Marines

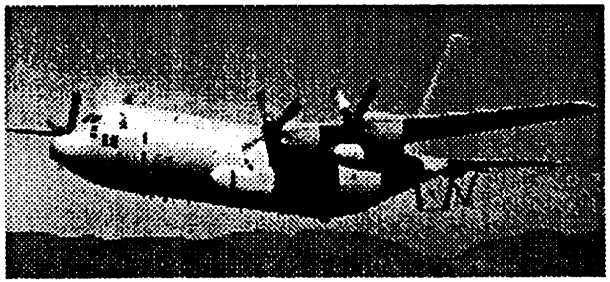


36 Army



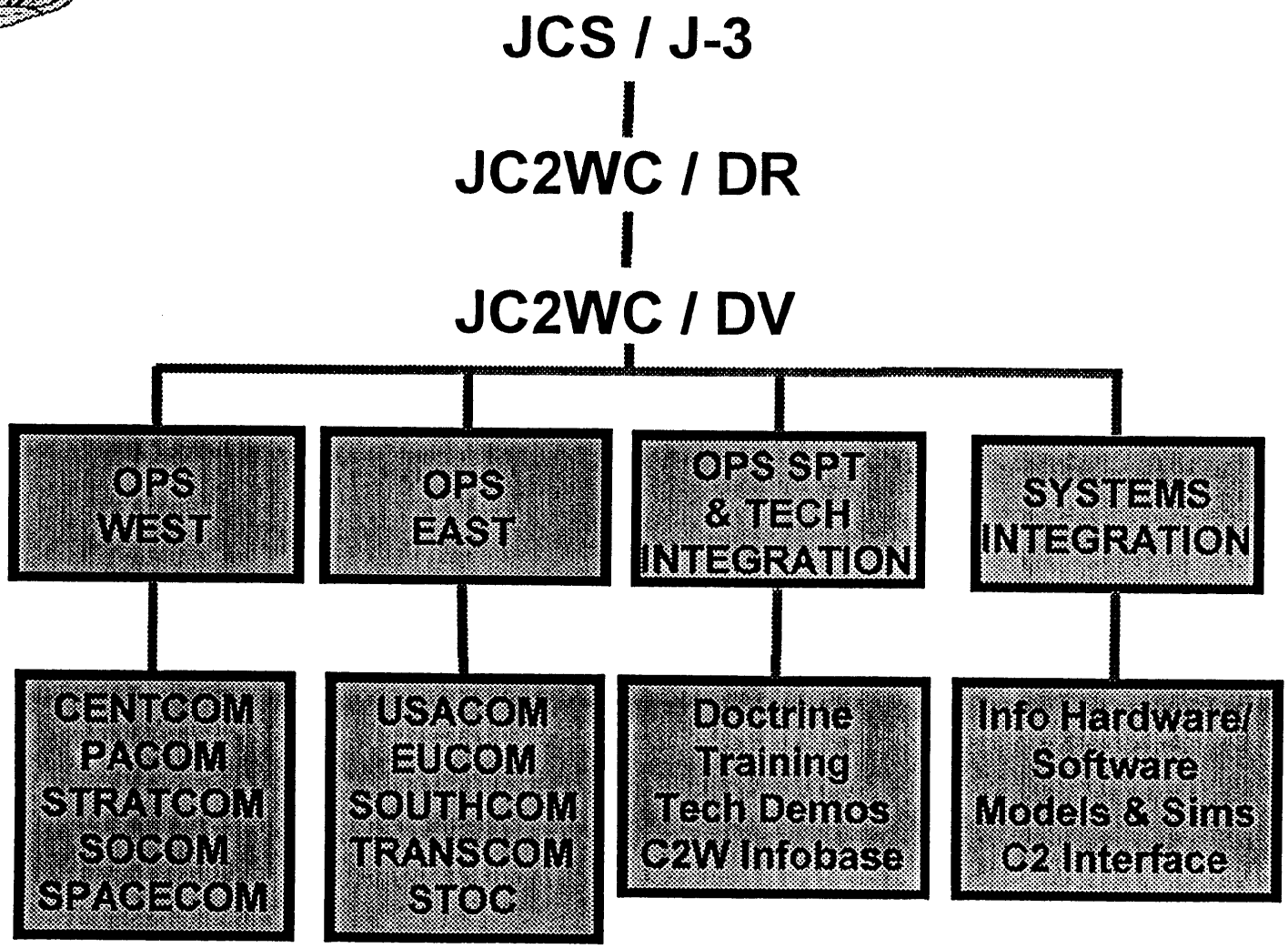
39 Navy

38 Civilians

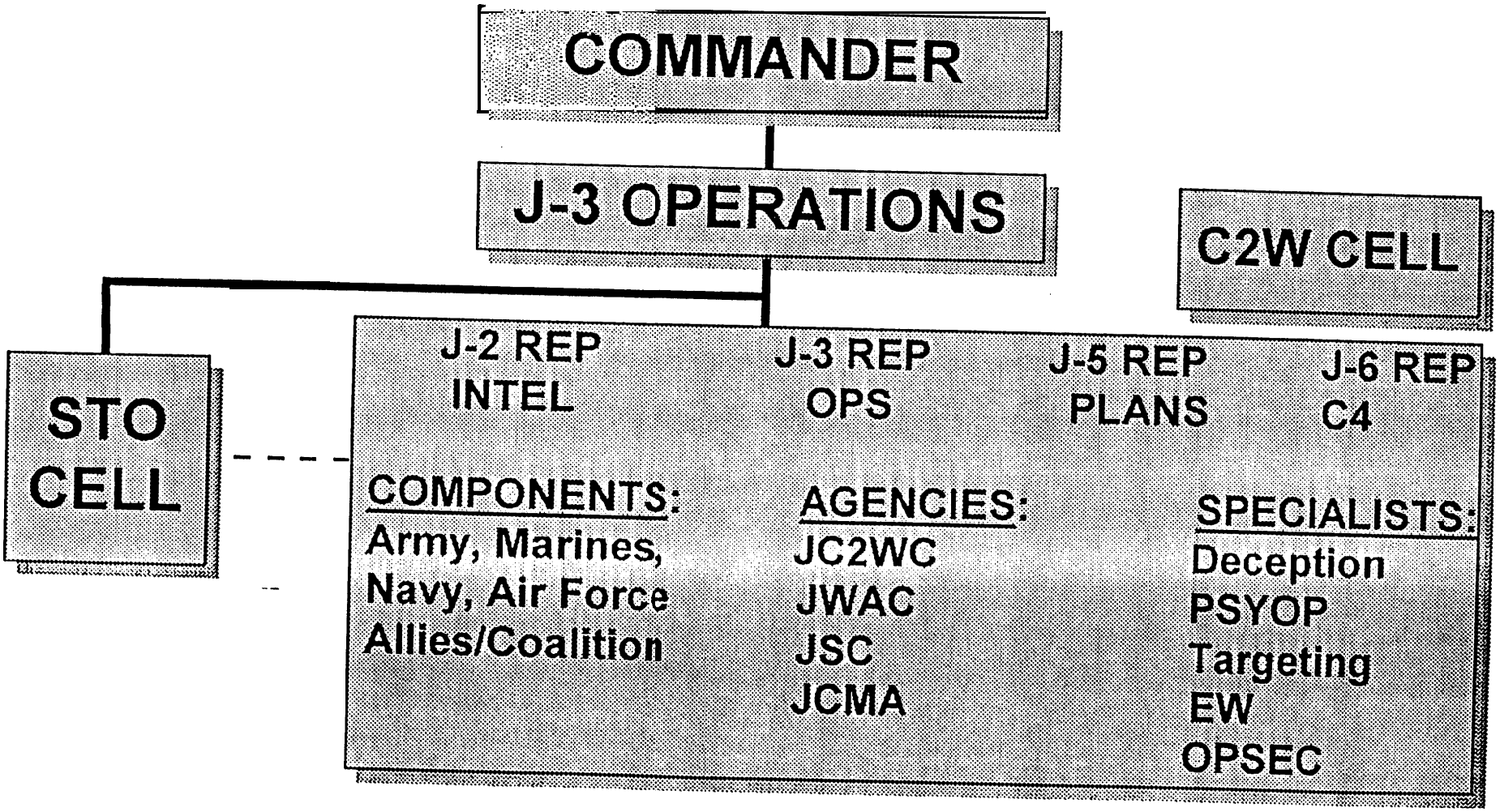


43 Air Force

JC2WC ORGANIZATION

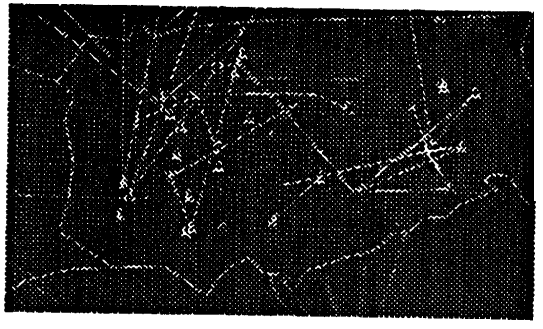


C2W INTEGRATION INTO JOINT OPERATIONS

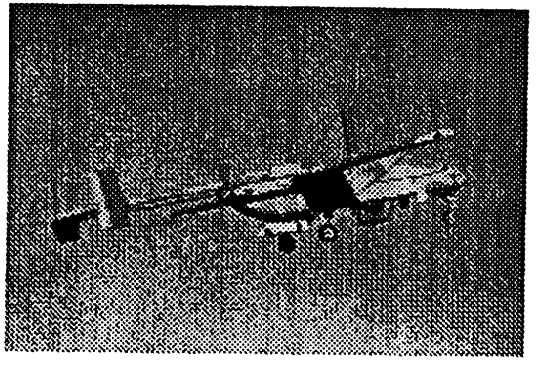


TEAM SUPPORT

- Planning
- Support Products
- Augmentation
- Coordination
- STO Access



- Reprogramming
- Information Bases
- JECEWSI



- Doctrine
- Training
- Data Processing
- Technological Support

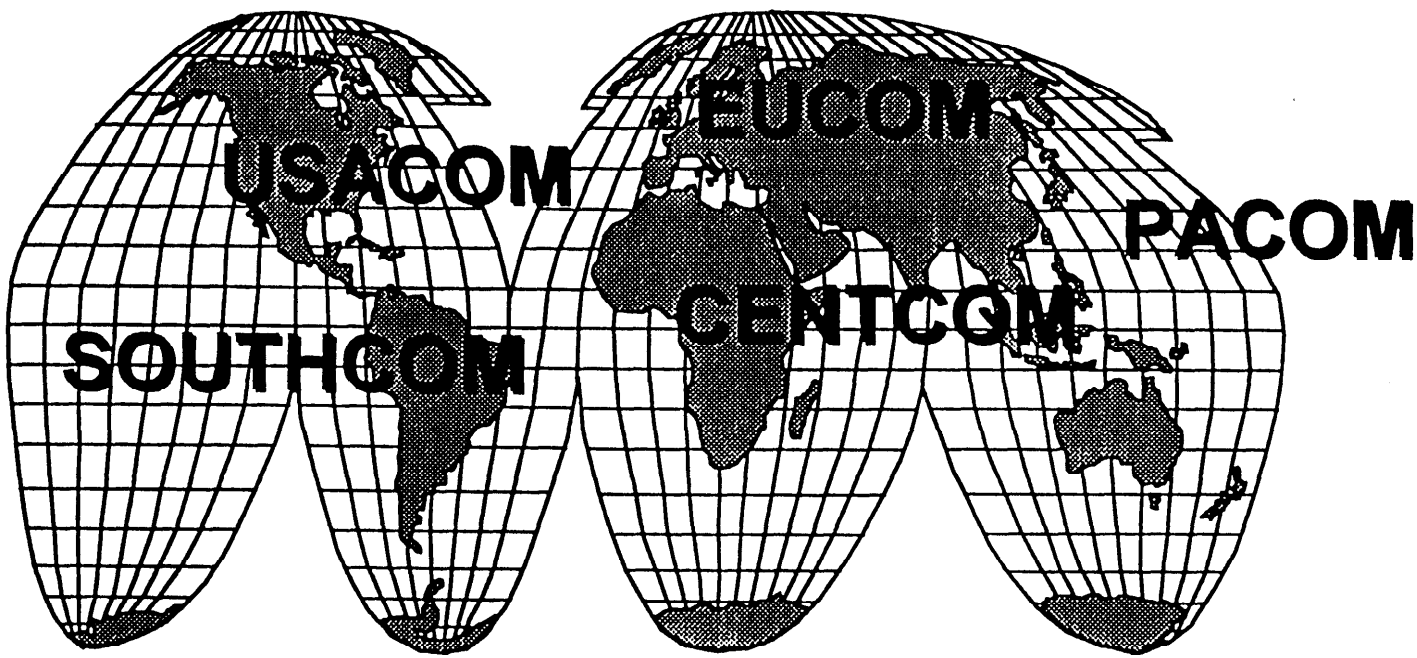
TYPICAL TEAM

LTC (USA)	TEAM CHIEF
MAJ (USAF)	AIR OPS SPECIALIST
MAJ (USA)	**PSYOP/SPECIAL** OPS SPECIALIST
MAJ (USA)	EW SPECIALIST
MAJ (USMC)	COMMS SPECIALIST
MAJ (USAF)	C2 SPECIALIST
LCDR (USN)	DECEPTION SPECIALIST
CAPT (USMC)	DEFENSIVE SPECIALIST
CAPT (USAF)	COMPUTER SPECIALIST
LT (USN)	INTEL SPECIALIST
CWO (USA)	INTEL ANALYST
CWO (USA)	**CI/OPSEC** SPECIALIST
MSGT (USAF)	COMMS ANALYST
GS-13/14	**EE/C2W** ANALYST

CINC SUPPORT TEAMS

STRATCOM

SPACECOM



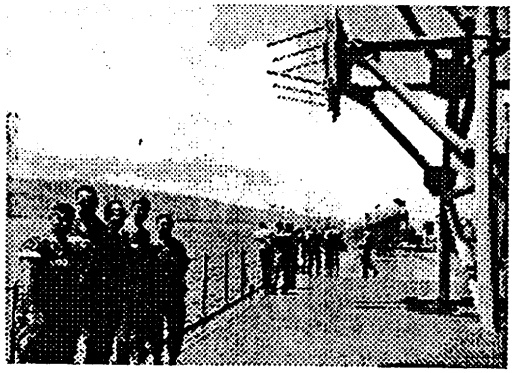
SOCOM

TRANSCOM

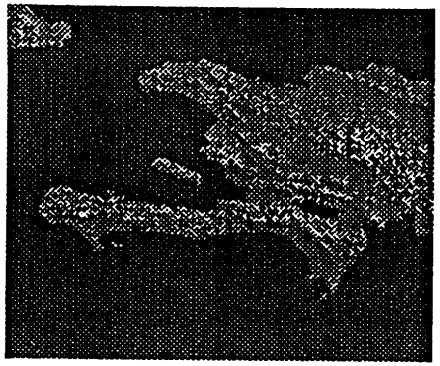
Multi-Service with Extensive Expertise

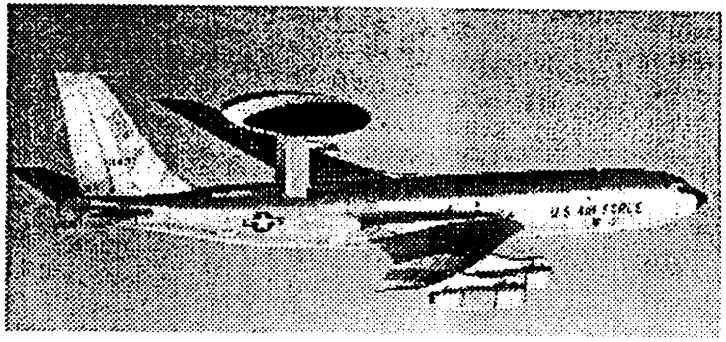
OPERATIONAL SUPPORT

RESTORE DEMOCRACY

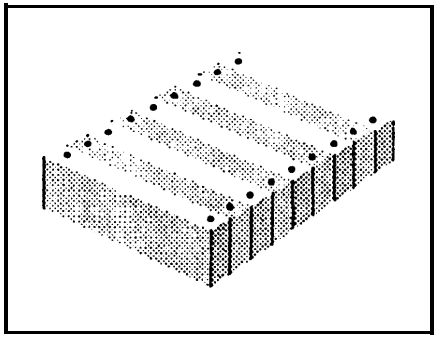


USACOM TEAM

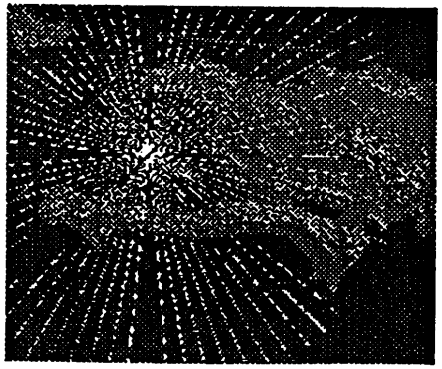




JCA ABOARD
AWACS



JRFL COORD



CENTER SUPPORT

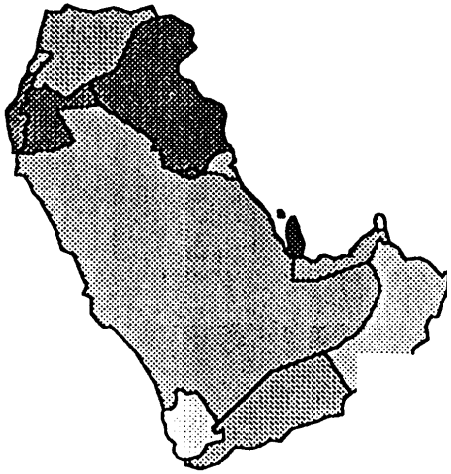
JSOC SUPPORT

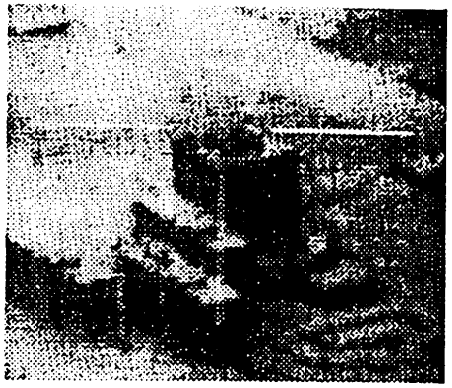
JC2WC SUPPORT TO RESTORE DEMOCRACY

- Deployed JC2WC USACOM Team
  - Drafted/Coordinated C2W & EW Annexes
    - Planned all EW support to operation
  - JRFL Coordination
  - C2W Support
    - Critical node analysis
    - Modeling of COMMANDO SOLO "Footprint"
  - Jamming control authority aboard AWACS
  - JSOC Support

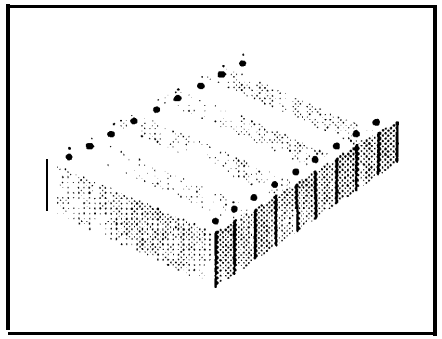
VIGILANT WARRIOR

CENTCOM TEAM

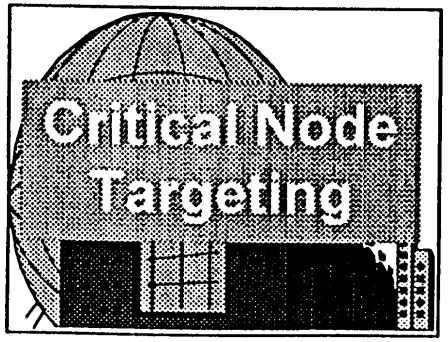




EOB & TARGETING SUPPORT



JAFL COORD



CENTER SUPPORT

JEOC SUPPORT

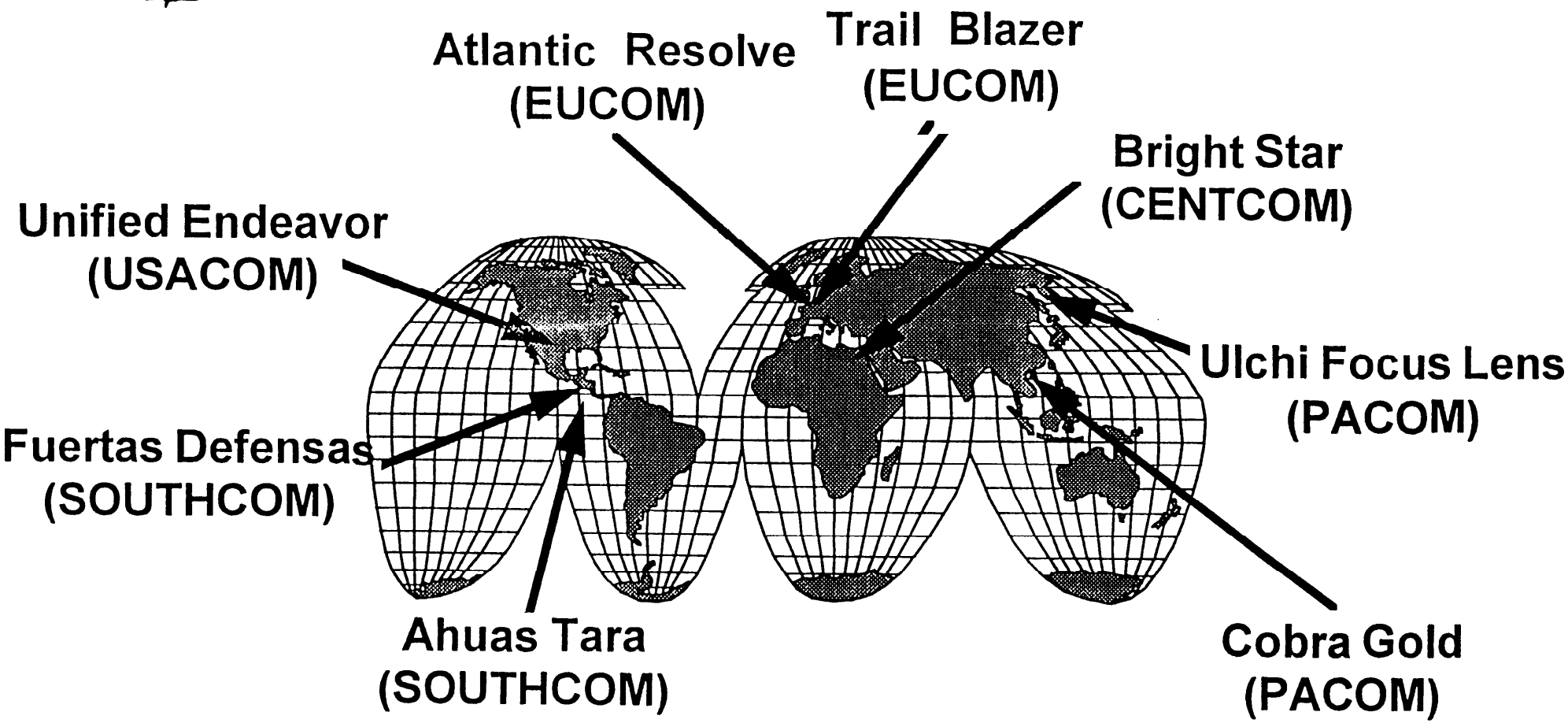
JC2WC SUPPORT TO VIGILANT WARRIOR

- Deployed **JC2WC CENTCOM Team**
  - Drafted/coordinated **- C2W** Appendix
  - **JRFL Coordination**
  - Reprogramming coordination
  - **C2W** critical node analysis
  - Scrubbing of EOB
  - **Modeling to support J2 Targeting**
  - **STO Backfill**

PROVIDE PROMISE
DENY FLIGHT

- Forward deployed CINC Spt Tm - Vicenza
- Developed C2W implementation plan
- Implemented JCEWR procedures
- Modeled threat to support CONPLAN's for NATO strike operations
- Provided radar detection & lethal coverage graphics
- Provided recommendations to the Joint Staff in wake of F-16 downing

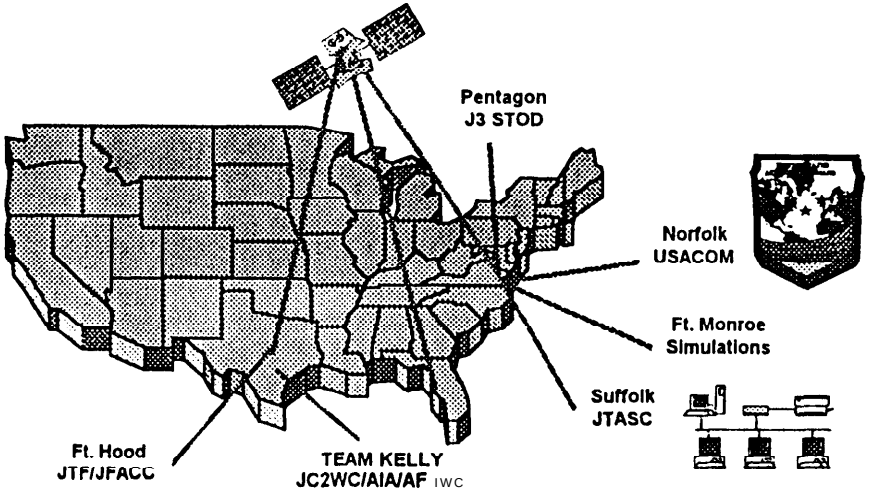
EXERCISE SUPPORT



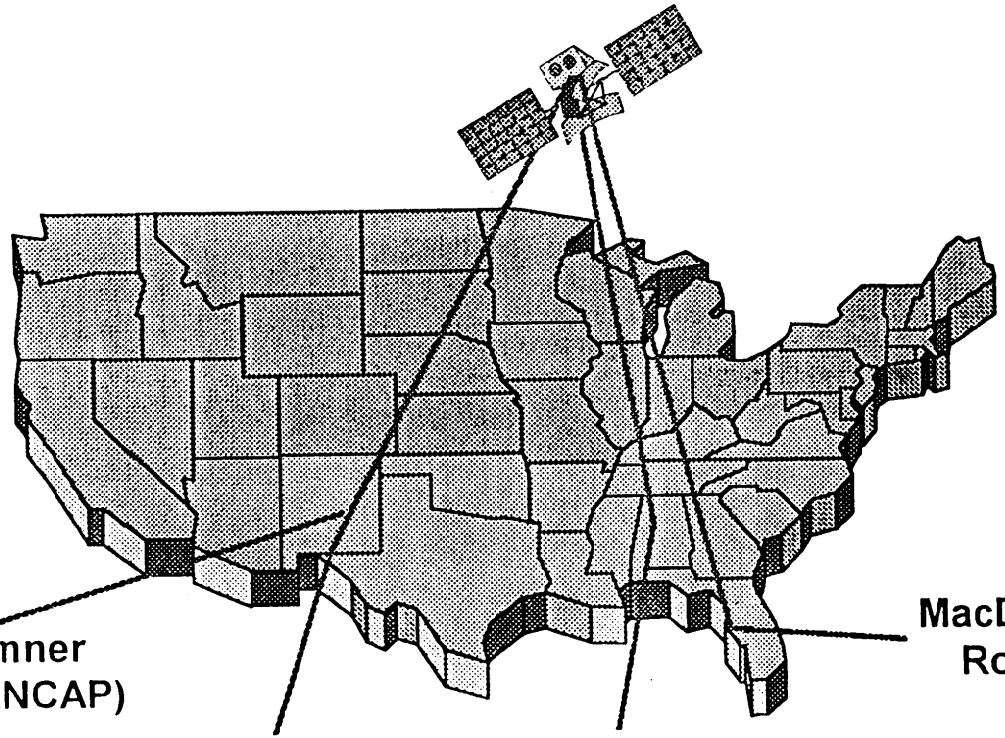
C2W Support to the Operational Commander

UNIFIED ENDEAVOR '95 SUPPORT

- Three Phases
  - PHASE I - Academic Training Seminar (Jan 95)
  - PHASE II - OPORD Development (Feb 95)
  - PHASE III - OPORD Execution (Apr 95)
- JC2WC Training at III Corps Started 3 months prior to UE95 PHASE I
  - JC2WC Capabilities
  - C2W as a supporting integrated strategy



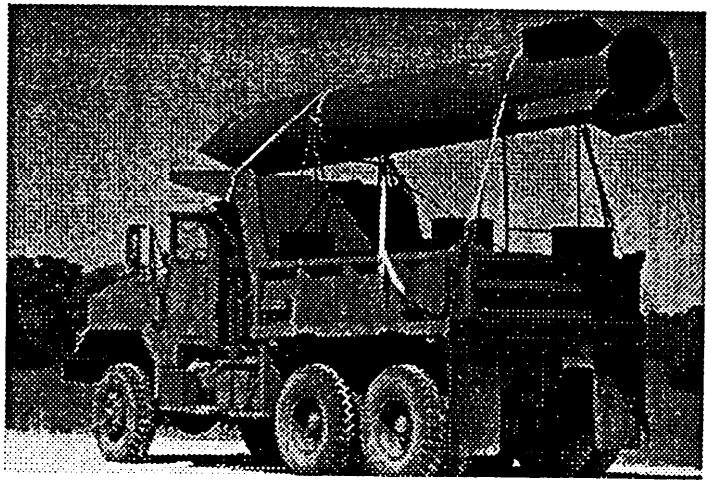
ROVING SANDS 95



Theater Missile Defense

SPECIAL PROJECT NIGHT VECTOR

- Detect & Attack TELS @ Pre-Launch Phase
- Realistic Air Defense System
- Operational C3 System
- Realistic Doctrinal Disposition



MODELING & SIMULATIONS

- EW Simulation (JECEWSI)
  - Routinely used since 1990
  - WPC/BLUE FLAG/JWFC/UFL
  - Distributed interface (FALCON STAR)
- C2W Simulation
  - Concept under development
  - Counter C2 - FY97 POM
  - Joint Intel Model - JWFC/DMSO funding
- IW Simulation
  - Sensor Combat - AFIWC

AUTOMATED C2W DECISION AIDS

- Simulation Display & Analysis System (SIMDAS)
  - Standard user interface
  - Radar performance analysis
  - Communications performance analysis.
- OILSTOCK - NSA Mapping Tool
  - Links & Nodes - NAIC's comms infrastructure DB
  - Microweb - AFIWC's functional C2 structure DB
  - Sensor Harvest - AFIWC's country study DB

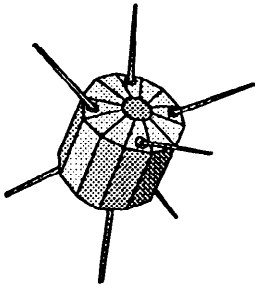
AUTOMATED C2W DECISION AIDS

- Future Improvements
  - CTT- C2W Targeting Tool
  - CNMT - COMNET Modeling Tool
    - Engineering level comms network modeling
  - RAAP - Rapid Application of Air Power
    - USAF ATO/ITO target nomination program
  - TMN - Target Mission Nominator
    - Follow-on capability to RAAP
    - Working on C2W integration

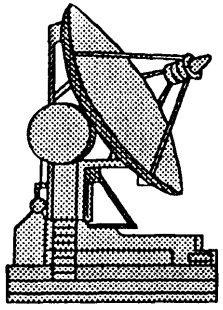
C2W DOCTRINE

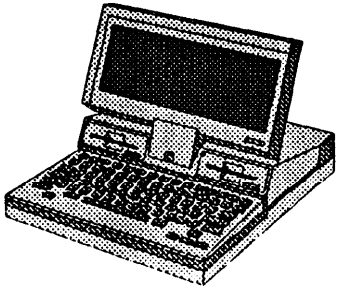
- "Preliminary Coordination Draft" distributed in May 95
  - Discusses C2W as "a subset of IW"
- "Final Coordination Draft" undergoing final revisions
- Approved Joint C2W doctrine due Fall '95

C2WKB OBJECTIVE



Provide the warfighter with the fastest access to the best available information in support of C2W.





C2W KNOWLEDGEBASE

- Joint Staff directed mission
  - Assess CINC information requirements
  - Resource in support of CINC requirements
- Established C2W TIGER TEAM
  - Determine CINC C2W information requirements
  - Identify C2W-related information sources
  - Guide development of new C2W databases
  - Identify connectivity requirements and facilitate solutions
- Engaged DIA
  - DIA Liaison at JC2WC?
  - DIA IW/C2W Cell at JC2WC?
  - Modernized Integrated Data Base (MIDB) compatibility

ISSUES / CONCERNS

- Are we in a "Revolution in military affairs?"
  - New technology, new doctrine, new organization
  - Paradigm shift or linear progression?
- Policy and doctrine -- immature, but working
- Roles and missions: National/Joint/Service
  - Services develop tools (weapons), tactics and techniques
    - And execute as directed?
  - Whose AOR constitues the "Fifth Dimension?"
  - Are we ready to step up to virtual presence on the battlefield?
- Who are the War-fighters?
  - Relationships between the intelligence, communications, and operations communities...perhaps others

VISION

To be the acknowledged national leader, responsive to the Commanders-in-Chief, for integrating Information Warfare into military operations.

SUMMARY

- DOD / JCS focal point for joint C2W
- Provide direct C2W operational support to CINCS
- Provide and support joint C2W training and doctrinal development for the DOD
- Manage joint EW reprogramming efforts
- Coordinate / standardize DOD C2W databases
- Expand role as C2W simulation center
- Continue technological Support to the CINCS

The Evolving Center of Excellence for C2W

JOINT COMMAND AND CONTROL WARFARE CENTER