

JOINT COMMAND AND CONTROL WARFARE CENTER



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13. ABSTRACT (*Maximum 200 Words*)

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

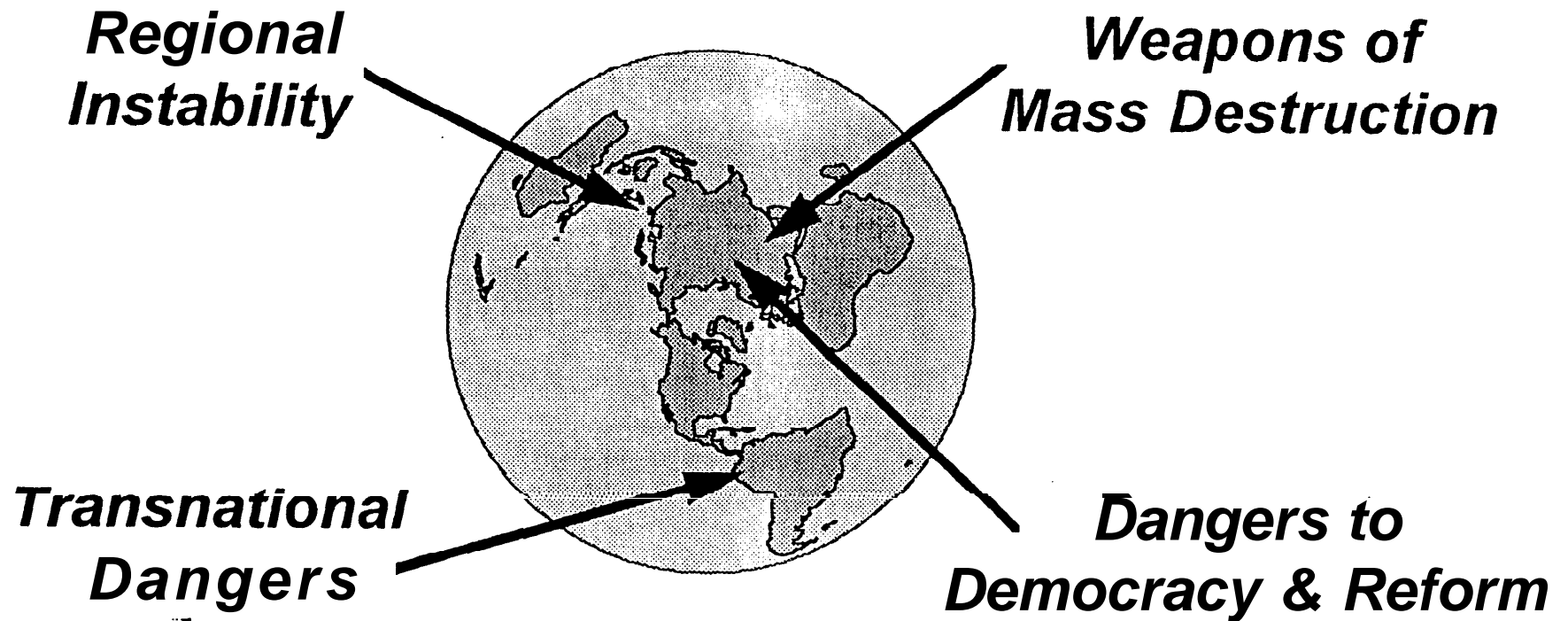
Physical Destruction



The Essential First Step in Operations



THE WORLD TODAY



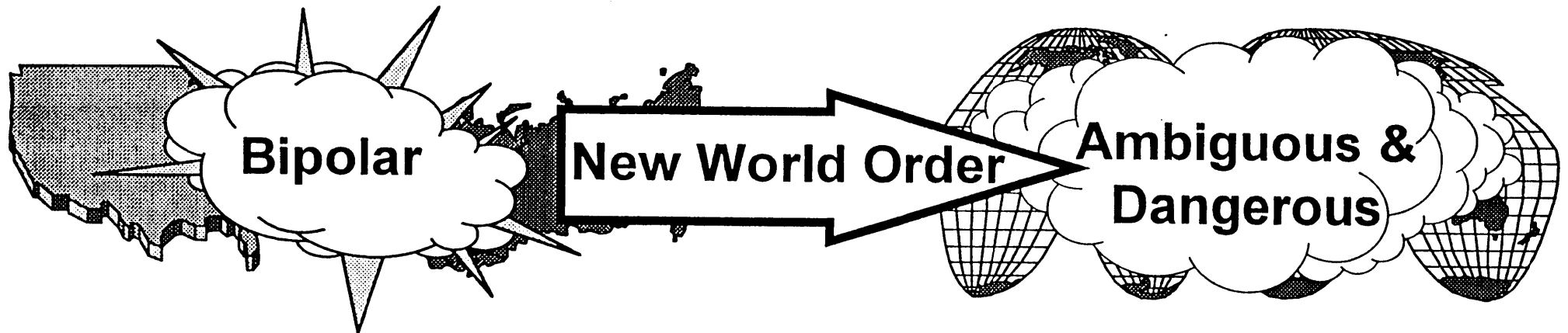
Promote Stability & Thwart Aggression



NATIONAL MILITARY STRATEGY

Peacetime Engagement

Deterrence & Conflict Prevention



Fight & Win Our Nation's Wars

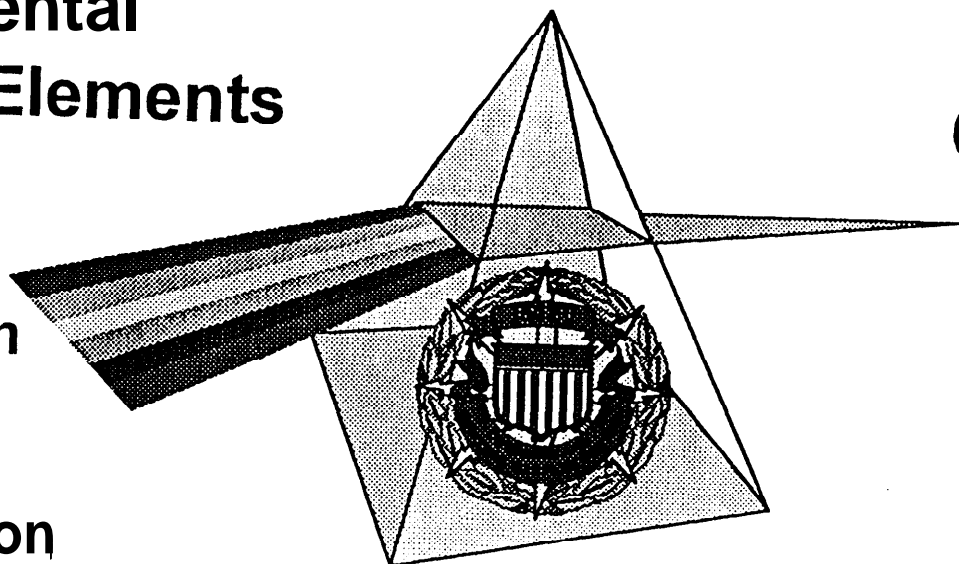
Overseas Presence & Power Projection



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

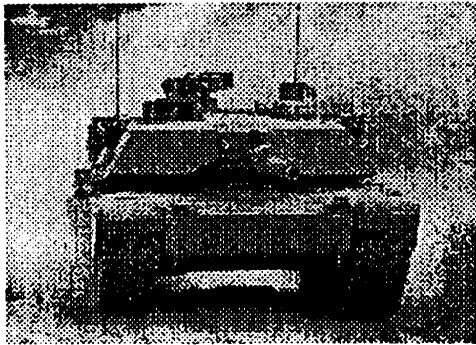
- **Established September 1994**
- **166 Personnel**
- **Joint Center of Excellence which provides direct Command and Control Warfare (C2W) support to operational commanders**
 - **Augmentation teams**
 - **C2W Knowledgebase oversight**
 - **Automated C2W decision aids**
 - **Doctrine development**
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



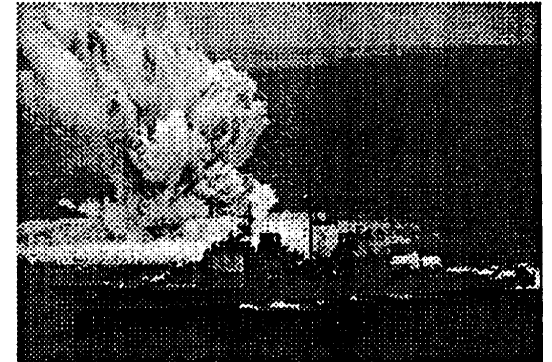
PERSONNEL



10 Marines



36 Army



39 Navy



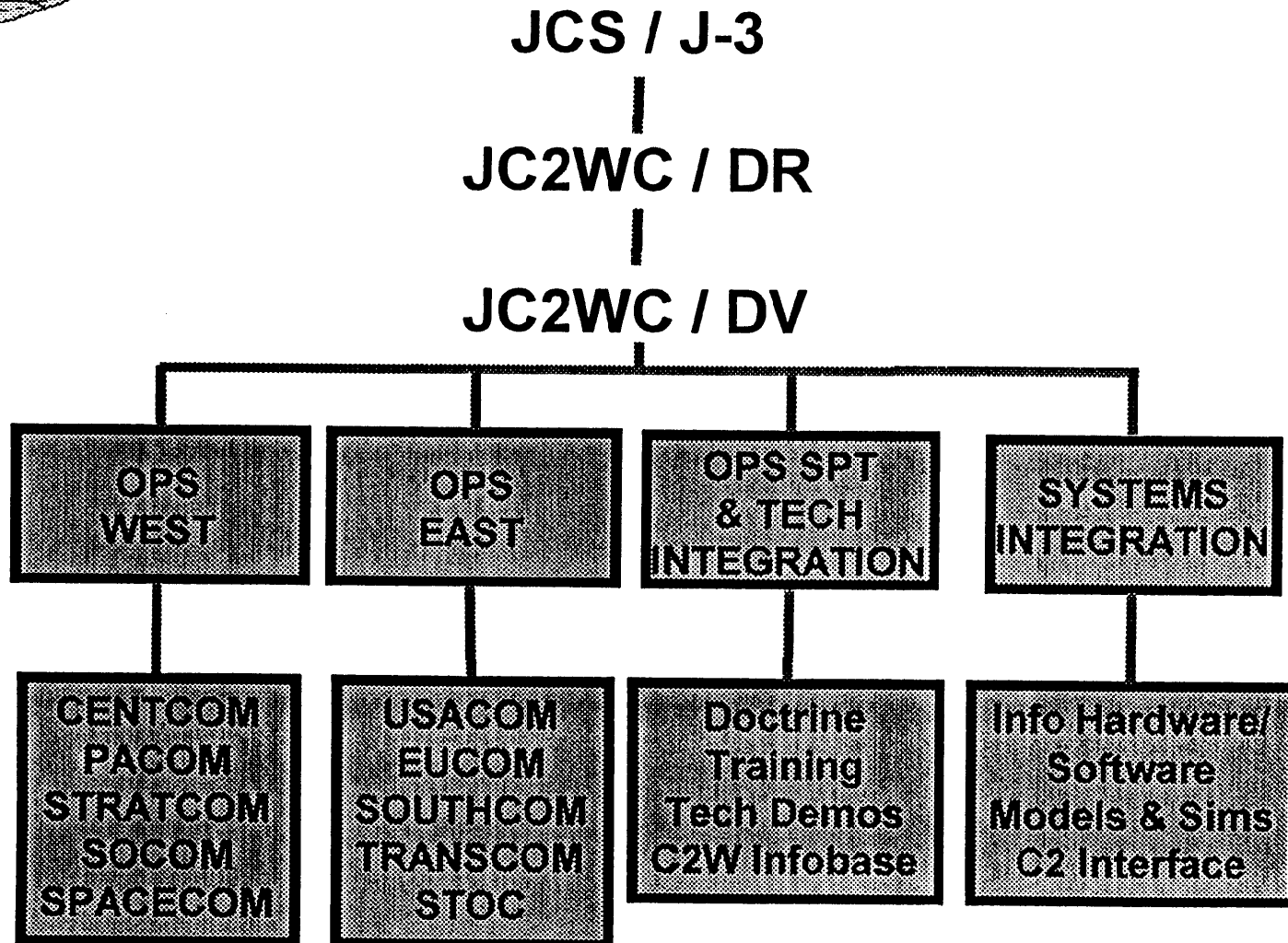
38 Civilians



43 Air Force

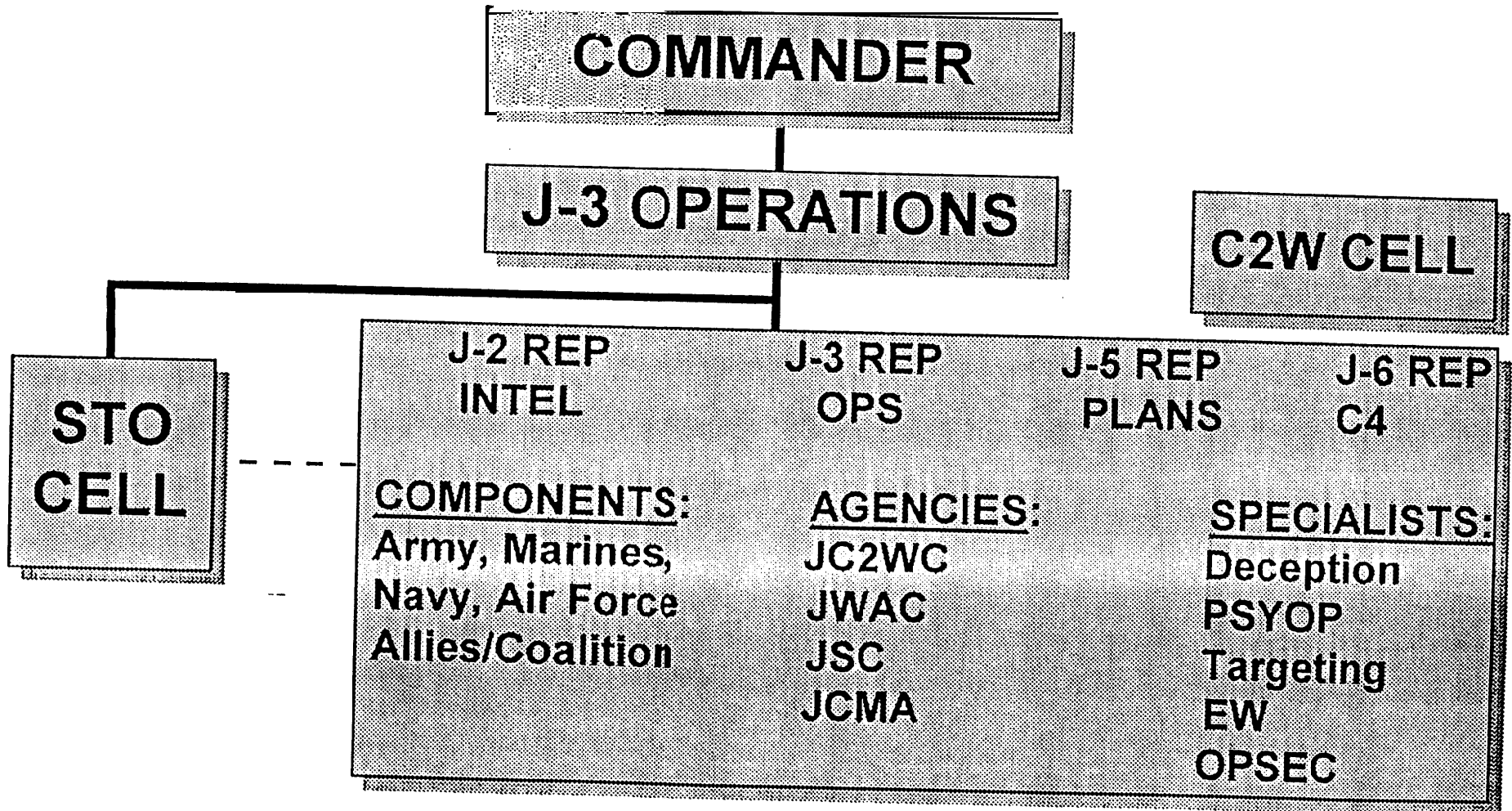


JC2WC ORGANIZATION





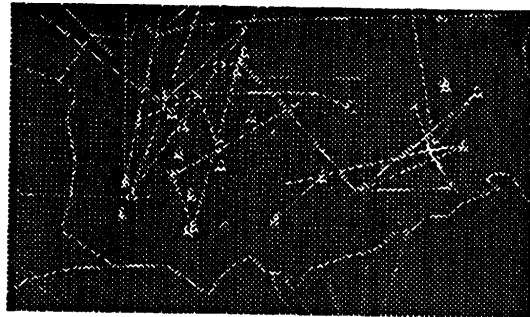
C2W INTEGRATION INTO JOINT OPERATIONS





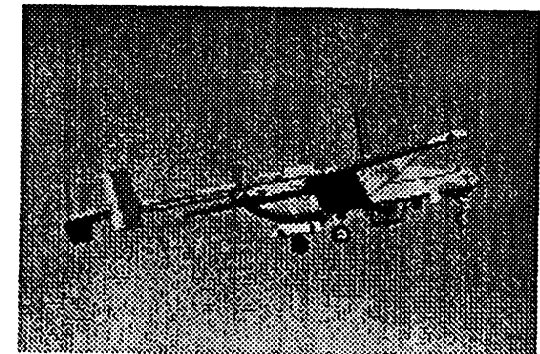
TEAM SUPPORT

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



- Reprogramming
- Information Bases
- JEC&WSI

- Doctrine
- Training
- Data Processing
- Technological Support





TYPICAL TEAM

LTC (USA)
MAJ (USAF)
MAJ (USA)
MAJ (USA)
MAJ (USMC)
MAJ (USAF)
LCDR (USN)
CAPT (USMC)
CAPT (USAF)
LT (USN)
CWO (USA)
CWO (USA)
MSGT (USAF)
GS-13/14

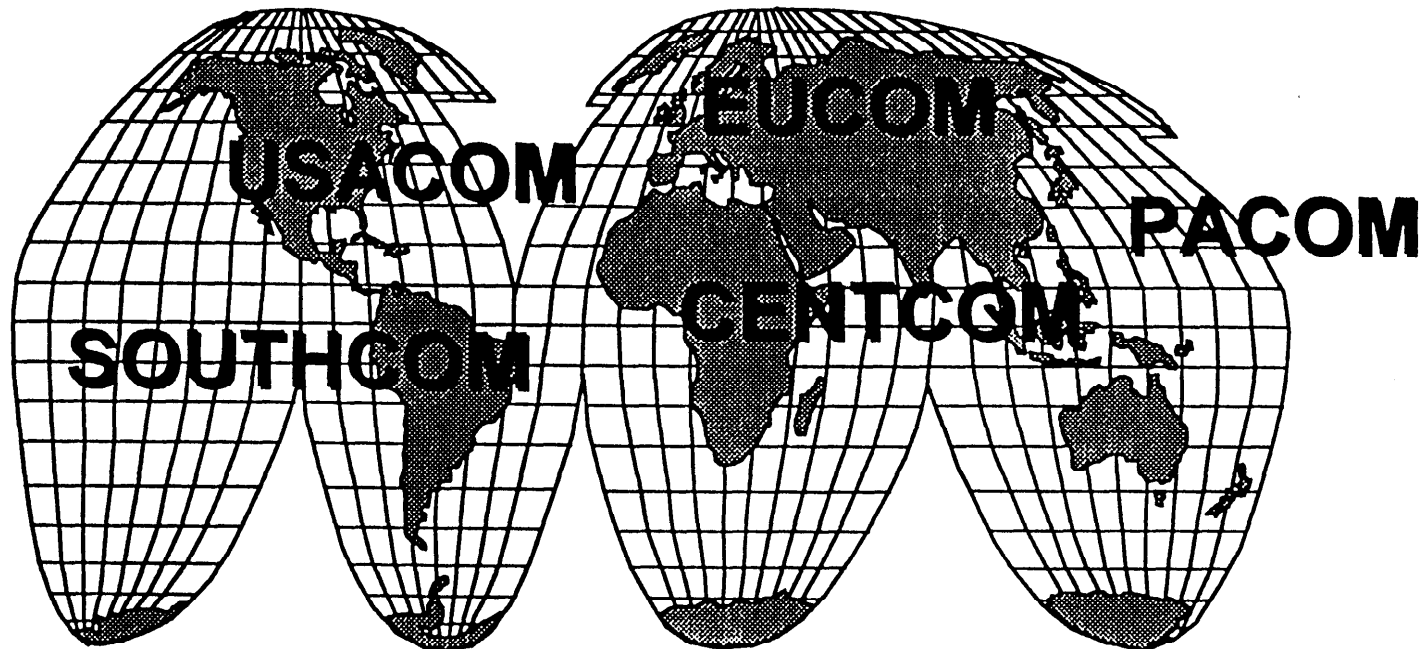
TEAM CHIEF
AIR OPS SPECIALIST
PSYOP/SPECIAL OPS SPECIALIST
EW SPECIALIST
COMMS SPECIALIST
C2 SPECIALIST
DECEPTION SPECIALIST
DEFENSIVE SPECIALIST
COMPUTER SPECIALIST
INTEL SPECIALIST
INTEL ANALYST
CI/OPSEC SPECIALIST
COMMS ANALYST
EE/C2W ANALYST



CINC SUPPORT TEAMS

STRATCOM

SPACECOM



SOCOM

TRANSCOM

Multi-Service with Extensive Expertise



OPERATIONAL SUPPORT



- Provide Promise
- Deny Flight
- Deliberate Force



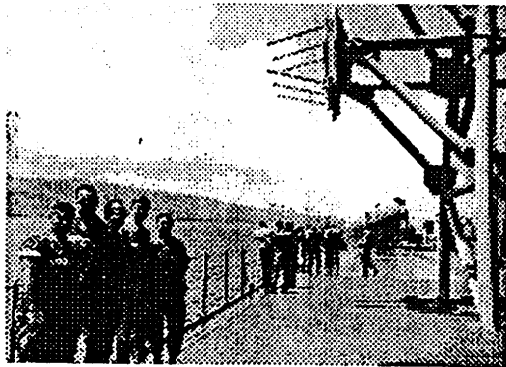
- Restore Democracy
- Vigilant Warrior
- United Shield

UNCLASSIFIED

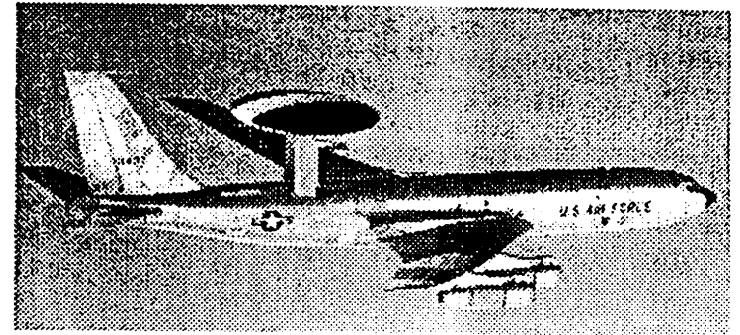
C2W Support to the Operational Commander



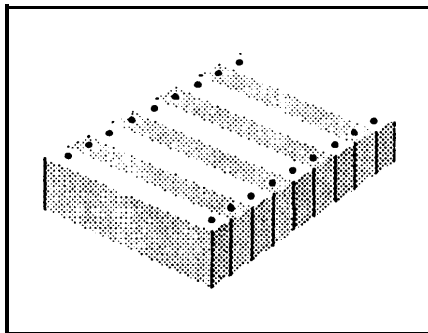
RESTORE DEMOCRACY



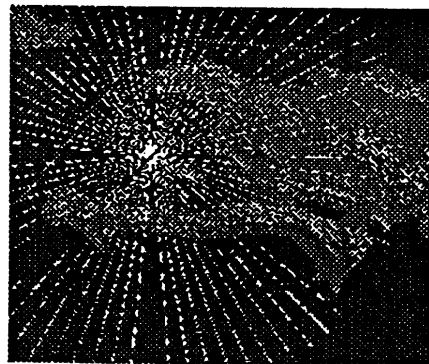
USACE TEAM



JCA ABOARD
AWACS



JRFL COORD



CENTER SUPPORT



JSOC SUPPORT



JC2WC SUPPORT TO RESTORE DEMOCRACY

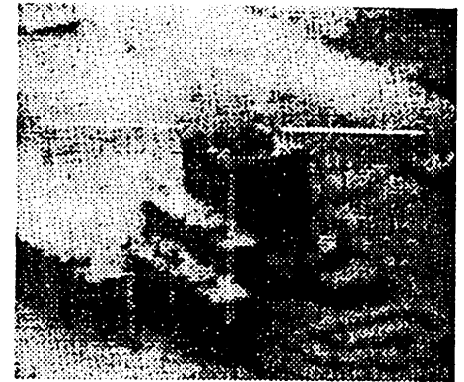
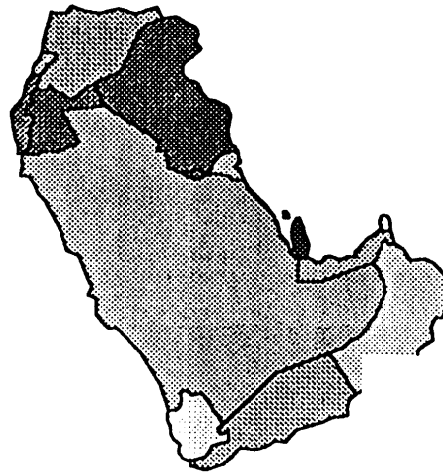
- **Deployed JC2WC USACOM Team**
 - **Drafted/Coordinated C2W & EW Annexes**
 - **Planned all EW support to operation**
 - **JRFL Coordination**
 - **C2W Support**
 - **Critical node analysis**
 - **Modeling of COMMANDO SOLO “Footprint”**
 - **Jamming control authority aboard AWACS**
 - **JSOC Support**



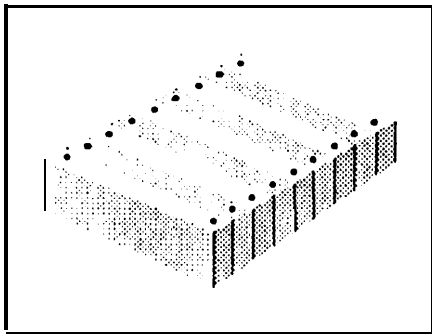
VIGILANT WARRIOR



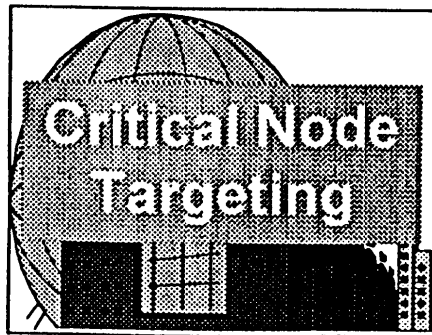
CENTCOM TEAM



EOB & TARGETING SUPPORT



J3FL COORD



CENTER SUPPORT



J3OC 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**

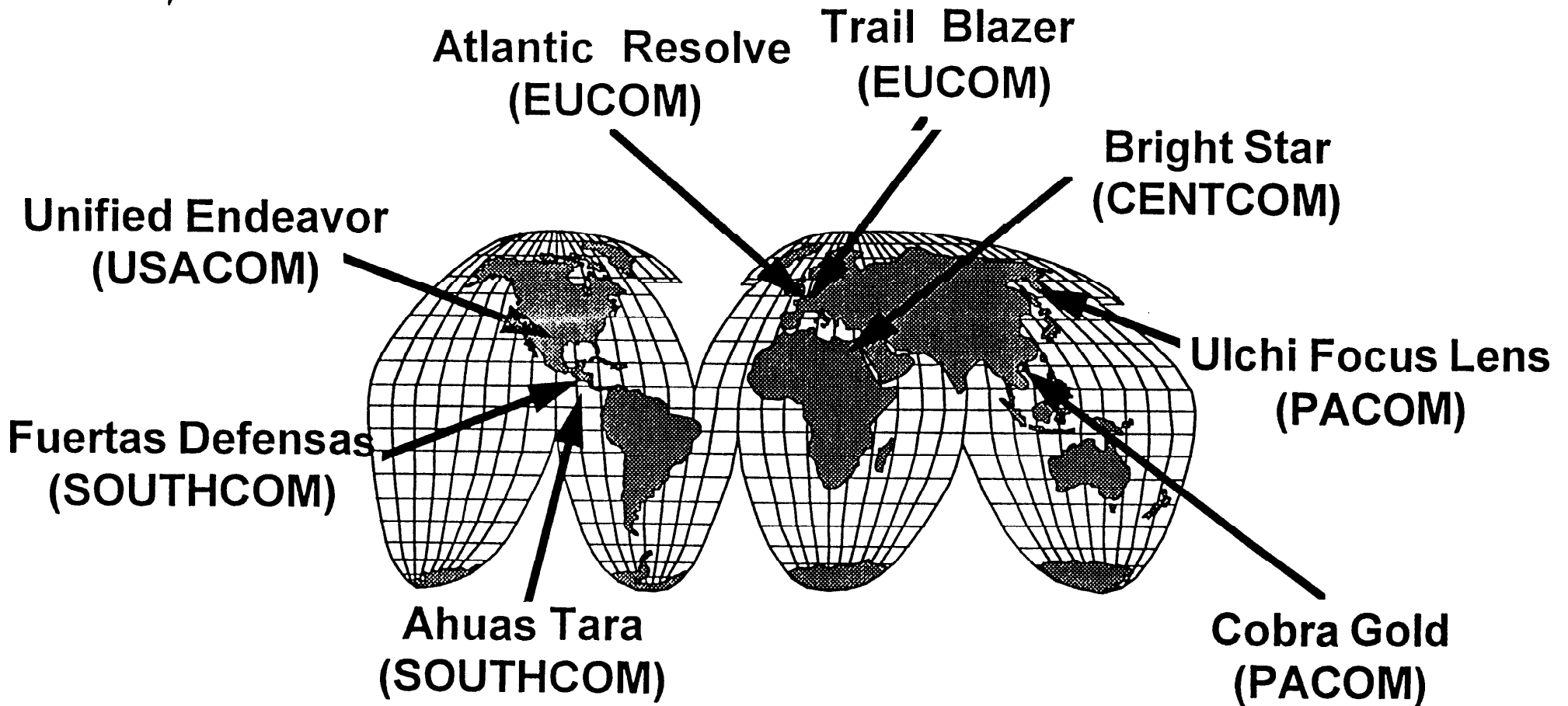


PROVIDE PROMISE DENY FLIGHT

- 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

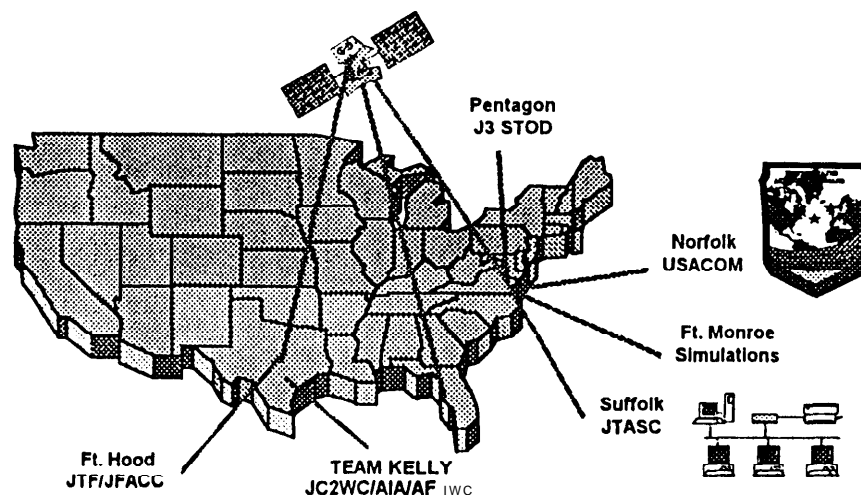


C2W Support to the Operational Commander



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

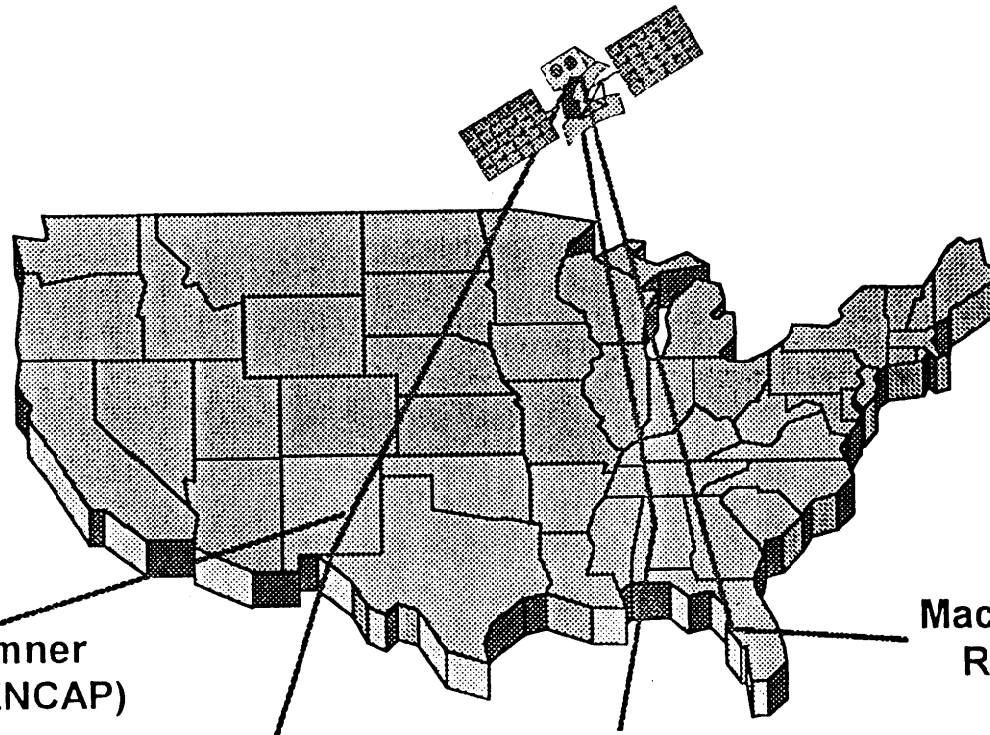




ROVING SANDS 95



Roswell/Ft Sumner
Night Vector (TENCAP)



Ft. Bliss
Roving Sands

Huntsville
Roving Sands

MacDill/CENTCOM
Roving Sands

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**

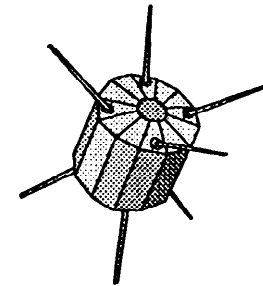


C2W DOCTRINE

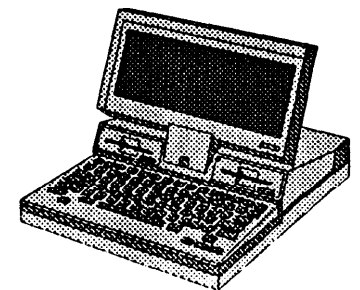
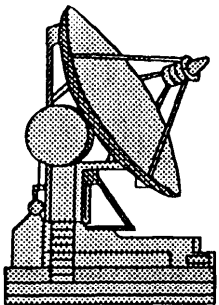
- **“Preliminary Coordination Draft” distributed in May 95**
 - **Discusses C2W as “a subset of IW”**
- **“Final Coordination Draft” undergoing final revisions**
- **Approved Joint C2W doctrine due Fall ‘95**



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**



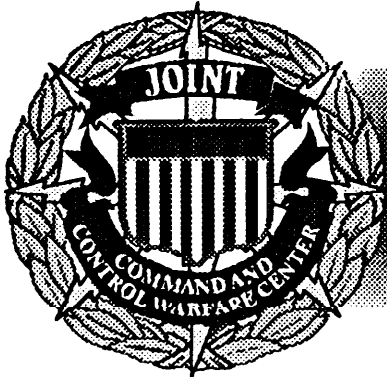
ISSUES / CONCERNS

- **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 constitutes 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

