Installation Familiarization Briefing
Outline

Introduction .....MG Russ

Who we are – Overview and discussion of TEAM members.....Mr. Kelly

What we do – TEAM C4ISR's role in Network Centric Warfare
(i.e., Support to the Future Force).....Mr. Cordeaux

Support to the Current Force.....Mr. Thomas

Fort Monmouth Installation Briefing.....LTC Reyes

Tobyhanna Army Depot.....Mr. Zardecki

Summary .....MG Russ

dcn: 9891

Who we are – an Overview of the TEAM C4ISR

The TEAM C4ISR Composition

Over the course of several decades, the TEAM C4ISR has endured a variety of realignments and organizational changes, yet, it has continued to provide America's warfighters with the capabilities essential to victory.

- ✓ ***CERDEC***
- ✓ ***PEO C3T***
- ✓ ***PEO EIS***
- ✓ ***PEO IEW&S***
- ✓ ***CECOM***

... the "center of gravity" for the development of Network Centric Warfare

The <u>co-location of these interdependent organizations</u> has enabled the TEAM C4ISR to remain <u>consistently focused on the Joint warfighter</u>

TEAM C4ISR
working as a Team to . .

Network Centric Warfare

...develop, acquire, field, sustain and integrate C4ISR systems for the Joint Warfighter

-- the Sustaining Base, Tactical and Strategic Battlespace --

"See First, Understand First, Act First, Finish Decisively"

"Actionable Intelligence"

"Force Protection"

"Information Dominance"

"Out communicate the enemy"

"Unparalleled Situational Awareness"

Team C4ISR…

Providing Capabilities Essential to DoD Transformation

C4ISR Business Areas

COMMUNICATIONS

COMMAND & CONTROL

SOFTWARE

ELECTRONIC WARFARE & SENSORS

INFORMATION WARFARE

COMBAT SUPPORT ITEMS

Capabilities

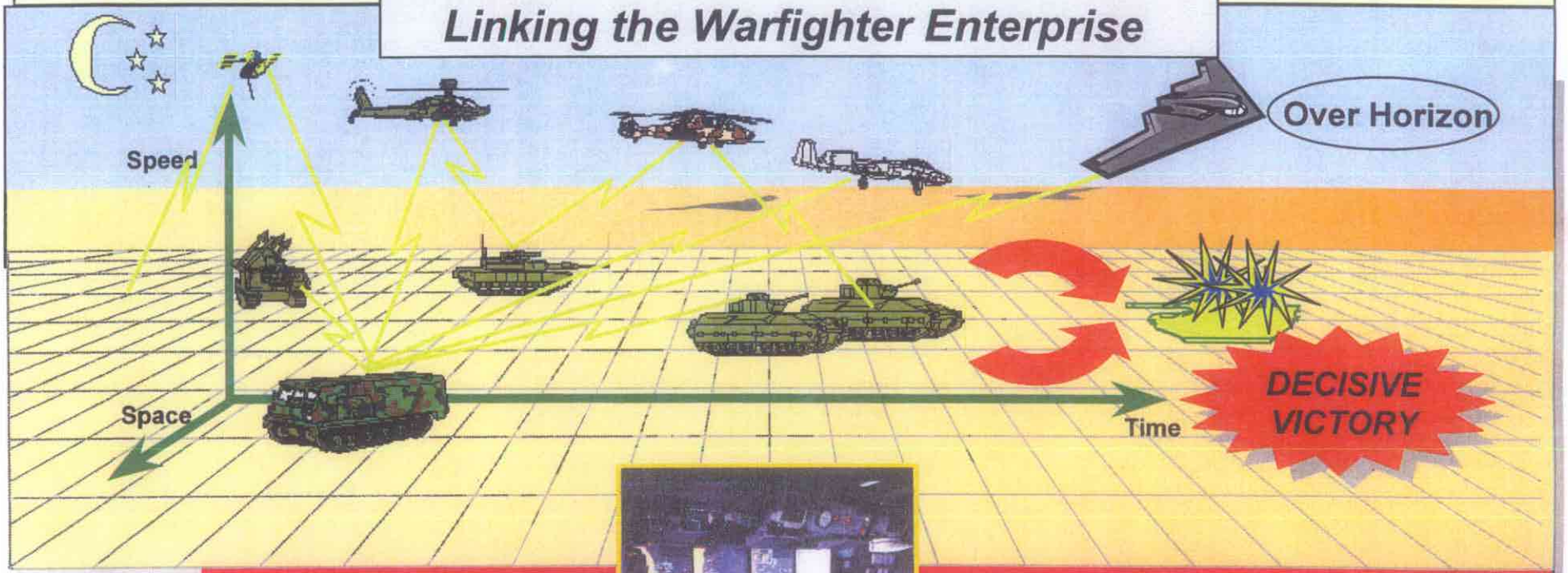
- Battlefield Digitization
- Seamless Communications
- Enhanced Situation Awareness
- Improved Planning & Decision Making
- Survivability
- Reduced Fratricide
- Know the Enemy
- Force Synchronization
- Information Assurance and Attack
- Installation Information Infrastructure Modernization
- Own the Night
- Own the Spectrum
- Countermine

C4ISR Systems - Integration for the Total Battlespace

The C4ISR Payoff...

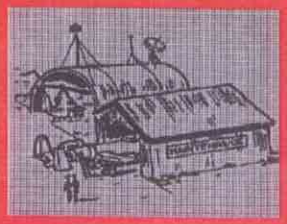
ENABLING NETWORK CENTRIC WARFARE

Linking the Warfighter Enterprise



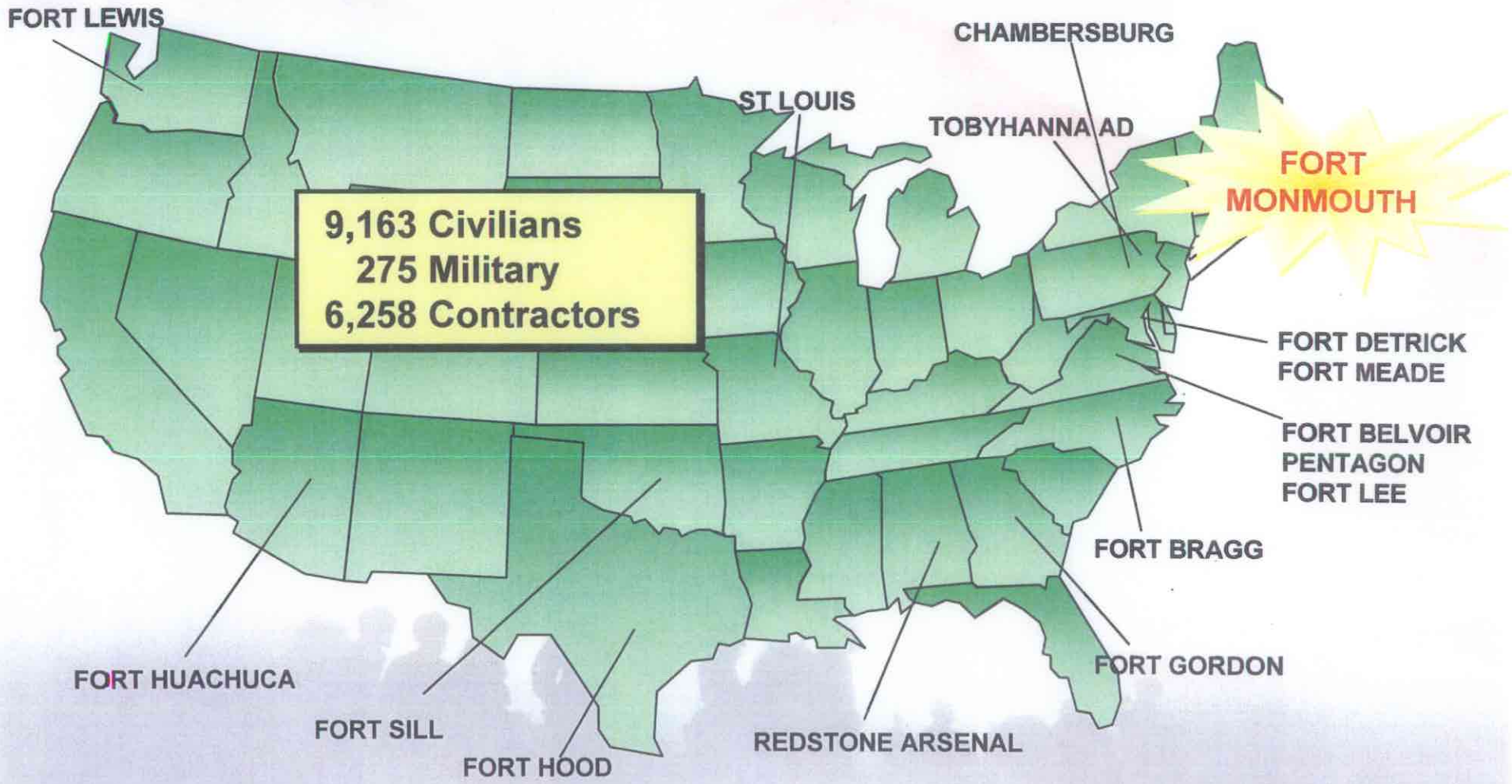
IN THE BATTLE
EVERY SHOOTER SHOOTING

IN SUSTAINMENT
EVERY SUPPORTER SUPPORTING



IN CONTROL
EVERY DECIDER DECIDING

TEAM C4ISR
CONUS Workforce



OCONUS Workforce

• CENTCOM as of 13 Feb 04

Afghanistan	30
Bahrain	7
Djibouti	2
Iraq	246
Kyrgystan	1
Kuwait	185
Qatar	20
Turkey	1
UAE	1
Uzbekistan	2
Total	492

• EUCOM

Belgium	2
Bosnia	15
England/UK	4
Germany	201
Italy	3
Kosovo	7
Total	232

Number of countries where the TEAM C4ISR workforce is located: 36

• SOUTHCOM

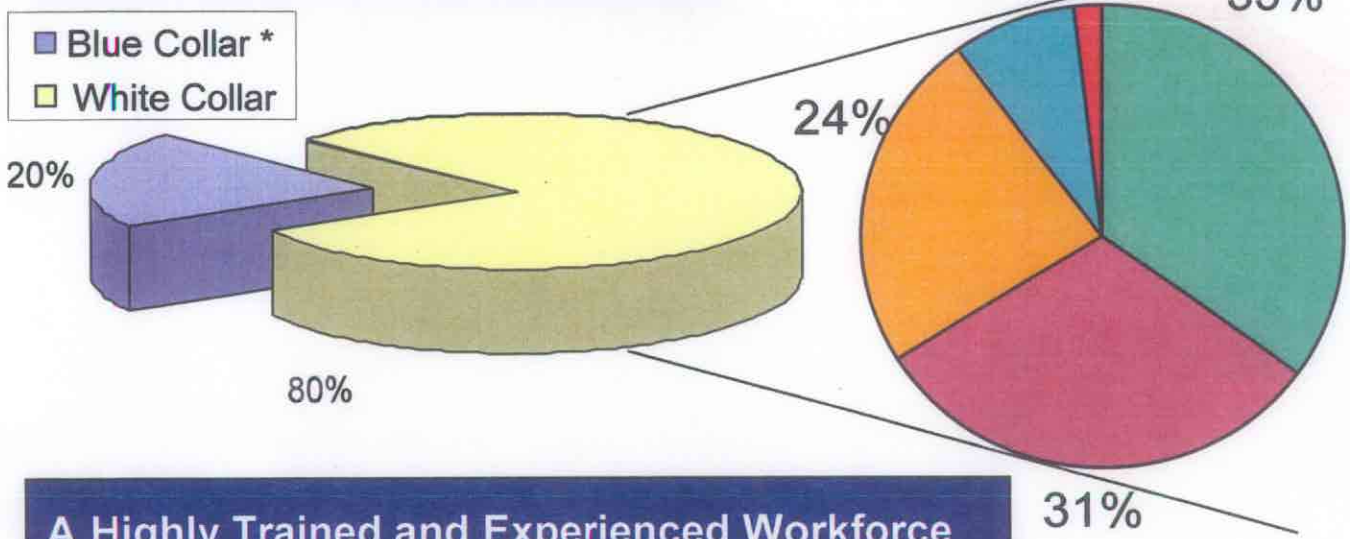
Barbados	1
Colombia	18
Ecuador	2
El Salvador	3
Guatemala	1
Honduras	1
Nicaragua	1
Peru	2
Venezuela	2
Other	12
Total	43

• PACOM

Alaska	30
Hawaii	14
Japan	3
Korea-Perm Loc	93
Korea-TDY	10
Total	150

Team C4ISR
Worldwide Workforce Profile

A Highly Technical Workforce



Engineers/ Scientists	35%
Non E&S Technical	31%
Business/ Admin	24%
Clerical/ Assistants	8%
Other	2%

A Highly Trained and Experienced Workforce

- ✓ Average Years of Service: 19
- ✓ Average Age: 48
- ✓ 60% of White Collar with Bachelors Degree or Higher
- ✓ 19% with Masters Degree or Higher
- ✓ 35% of engineers and scientists with advanced degrees

* Primarily Electronics Mechanics and other occupations associated with depot maintenance and repair activities

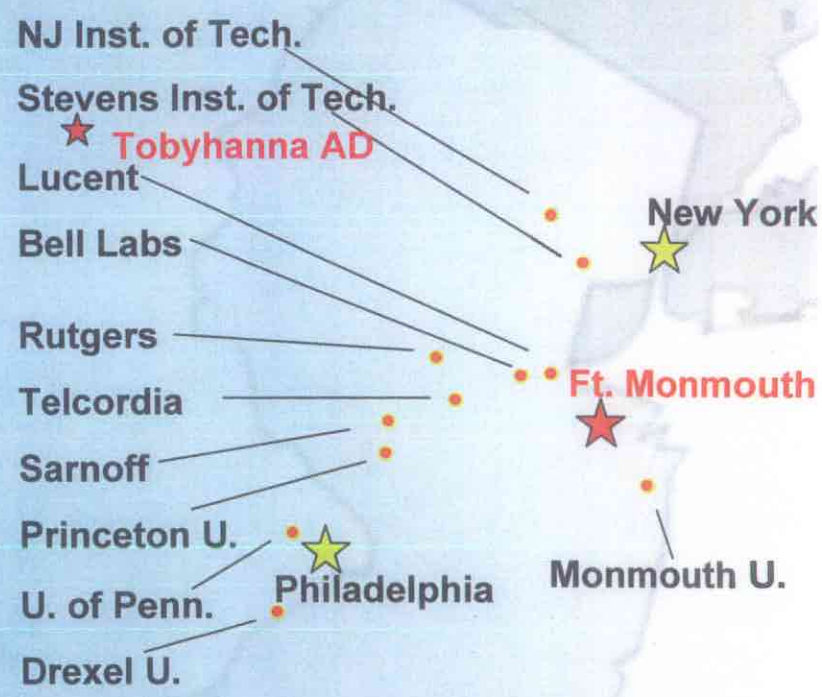
Team C4ISR
Strategically Located for S&T Excellence

Strategic Location
Boston-NY-Philadelphia-Washington Corridor

National Leader in R&D

Strong University Research System

- ✓ Excellent Quality of Life
- ✓ Efficient, accessible Transportation
- ✓ High R&D Electronics Expenditures
- ✓ Technical Collaborations, Alliances, and Consortiums
- ✓ Excellent Recruitment Source
- ✓ Technical Collaboration
- ✓ Shared Facilities
- ✓ PhD Panels



NJ has one of the highest concentrations of engineers and scientists in the country.

-Research & Development Council of NJ

NJ Universities graduate more than 11,000 Scientists/Engineers annually.

-National Science Foundation

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TEAM C4ISR
Supporting the Joint Warfighter

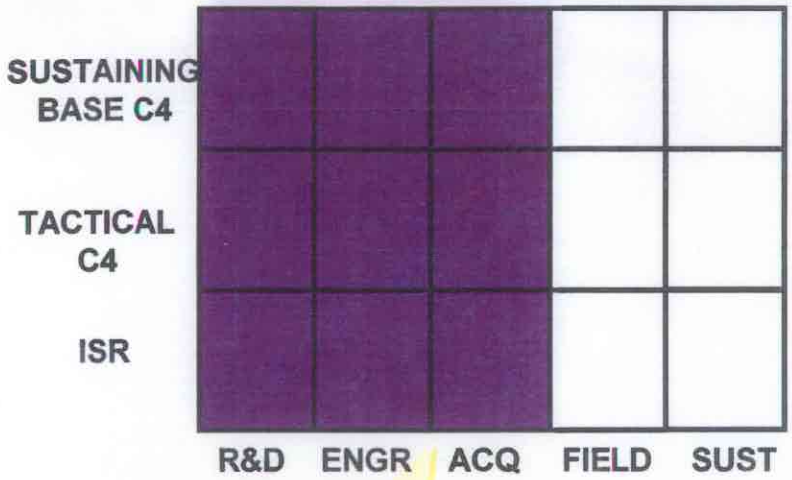
Joint Land Component C4ISR Domain Expert

Army Lead for 40+ joint programs and mission capabilities

Championing Combatant Commander Interoperability

Our Bottom Line: THE AMERICAN WARFIGHTER

TEAM C4ISR
Communications-Electronics Research, Development and Engineering Center



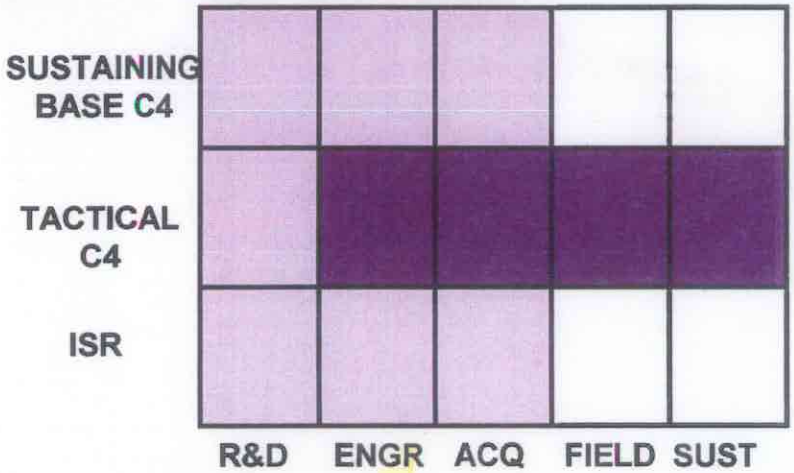
Supports more than 20 Joint Programs

C4ISR Research & Development

- Manage 6 of the 13 Army Advanced Technology Demonstrations (ATDs)
- Manage 46 of 175 Army Science and Technology Objectives (STOs)
- Largest Small Business Innovative Research (SBIR) Program in the Army (138 Programs)
- Most Active Army Independent Research and Development (IR&D) Program (12 Programs)
- 27 Cooperative Research and Development Agreements (CRDAs)
- Tech Base: $300M; Annual Funding $1B

Developing and Integrating C4ISR Technologies that Enable Information Dominance for the Networked Warfighter…

TEAM C4ISR
Program Executive Office
Command, Control, Communications Tactical



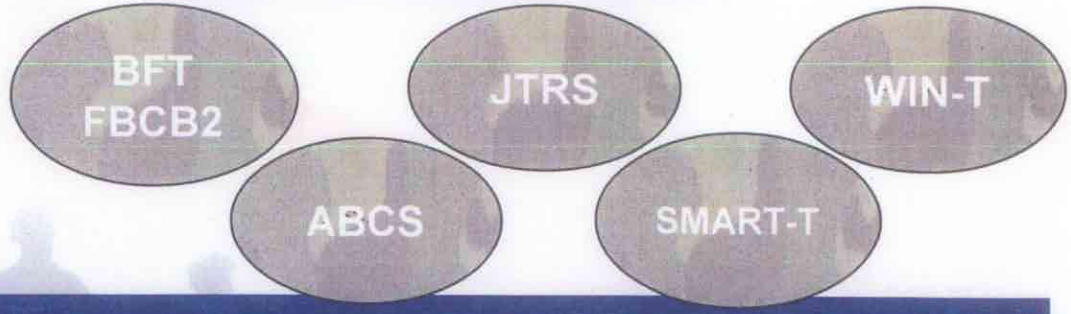
C3T Program Management

35 Programs: 6 ACAT I, 9 ACAT II

$9.5B Portfolio

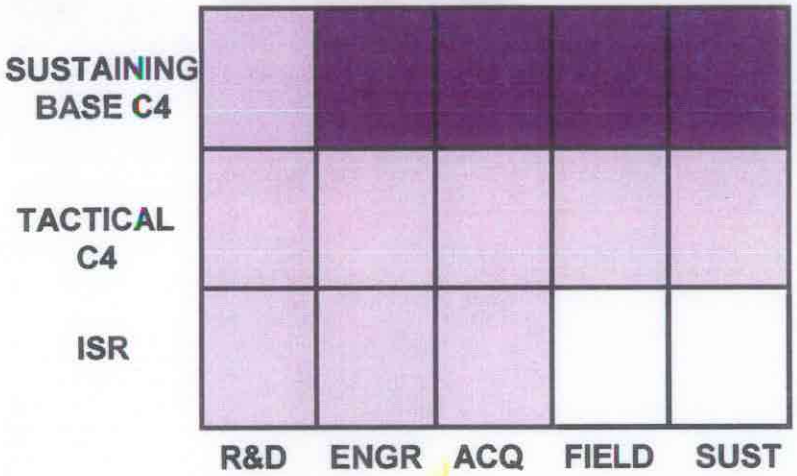
- Battlefield Digitization
- Common Operational Picture
- Enhanced Situational Understanding
- Reduced Fratricide
- Secure, Seamless Communications
- Tactical Operations Centers
- Battle Command on the Move

Approx 80% of Programs have Joint Interfaces



Acquiring, Fielding, and Sustaining Command, Control, and Communications Tactical, Theater and Strategic Systems for America's Warfighter…

TEAM C4ISR
Program Executive Office
Enterprise Information Systems



Enterprise Info Program Management

30 Programs: 20 ACAT III

$4.5B Portfolio

- Reachback from "Foxhole" to Sustaining Base
- Increased Bandwidth
- Voice and Data Communications
- Scaleable & Secure Networks
- Comms Infrastructure for Deployed Forces
- Reliable Secure Messaging
- Comms for Emergency Services
- Approx 280 Installations on ISL/200 Satellite Ground Terminals

Approx 30% of Programs are Joint

I3MP

KICC

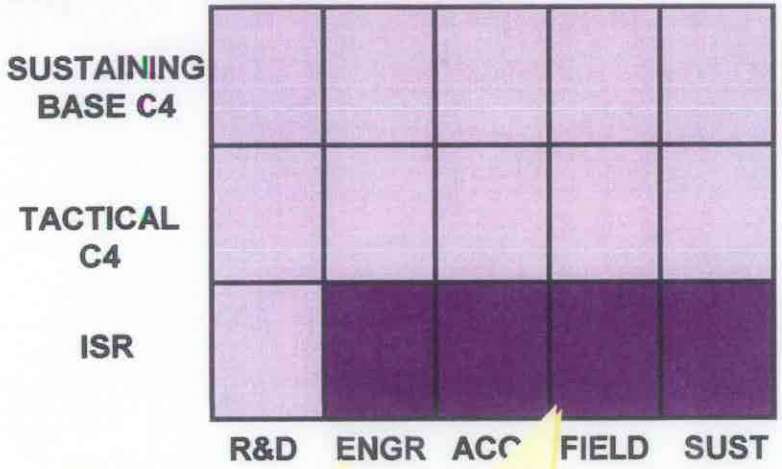
BRS

DOHA Command Center

DSCS/ WGS

Acquiring, Fielding, and Sustaining the Information Technology Infrastructure, Communications and Business Management Systems for America's Warfighter…

TEAM C4ISR
Program Executive Office
Intelligence, Electronic Warfare and Sensors



IEW&S Program Management

33 Programs: 2 ACAT I, 1 ACAT II, 24 ACAT III

$7.8B Portfolio

- Decision Superiority
- Visualization
- Provide Force Protection
- Own the Night
- Locate Enemy Emitters for Targeting
- Counter IEDs

ISR Capabilities birthed Joint – Army lead in 17 Joint Programs and 2 Executive Branch Capabilities

DCGS-A

FIREFINDER RADARS

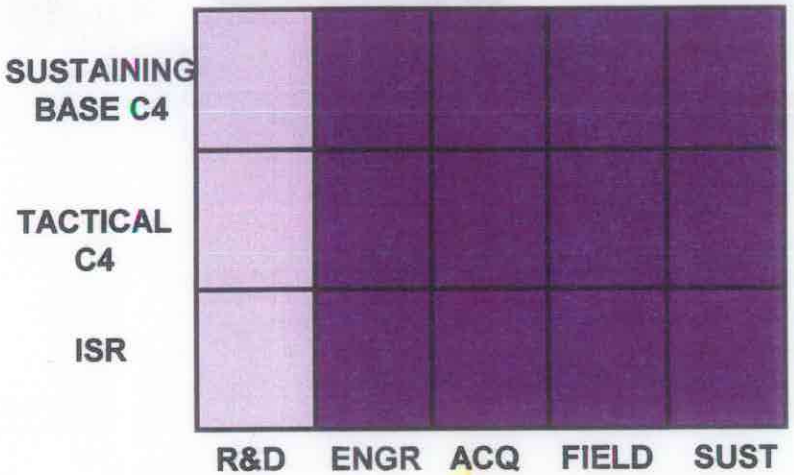
AERIAL COMMON SENSOR

WARLOCK

PROPHET

Integrated ISR Capabilities that Provide Actionable Intelligence at the Point of Decision…

TEAM C4ISR
CECOM
Software Engineering Center



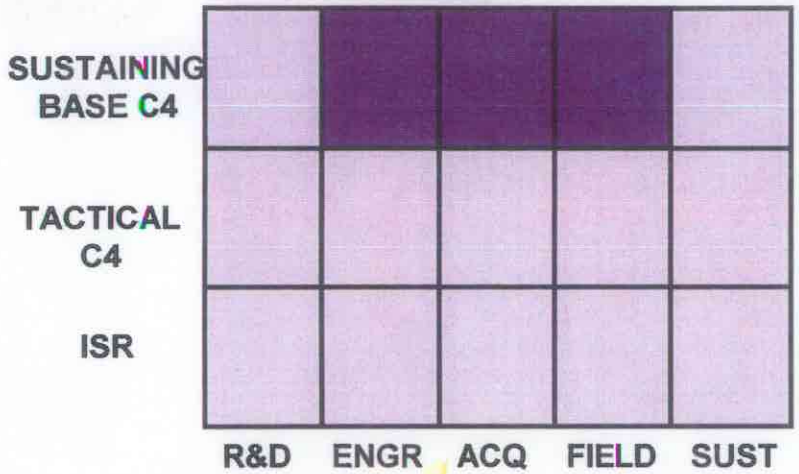
Largest Software Center
in the Army
30-40% Joint Workload

C4ISR Software Management

- Support Joint/Army Tactical, Strategic and Business Systems
- Provide world-wide Field Software Engineering Support (162 Field Software Engineers)
- Support 220 Joint/Army Systems
- Support 190 Million Lines of Code
- 235 Software Releases in FY 03
- Improve Security Posture for more than 130 Army/Joint Systems
- Respond to more than 50,000 User Calls per year
- Provide Support to 10 PEOs and their PMs
- Provide Enterprise Software Solutions for Joint Warfighter

Providing Life Cycle C4ISR Software Support to America's Warfighter from the Battlespace to the Sustaining Base…

TEAM C4ISR
CECOM
Information Systems Engineering Command



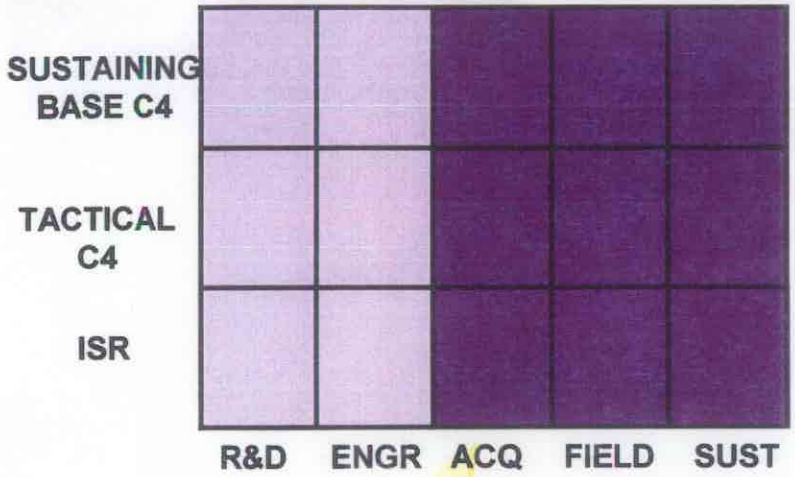
IT Engineering for Joint Command Centers

C4ISR Information Infrastructure

- Army Systems Engineer for Sustaining Base & Strategic Reachback
- Restoration of IT Services at Pentagon after 9/11; Engineering Support for Pentagon IT Renovation
- Command Center Upgrades (Camp Doha)
- Engineering Support for KICC
- Engineers Commo & IT Systems & Networks for 280 Army Installations Worldwide
- Technology Integration Ctr Permits System Emulation & Product Evaluation

Engineering and Integrating the Information Technology Infrastructure for America's Warfighters' Sustaining Base Requirements…

TEAM C4ISR
CECOM
Logistics Readiness Center



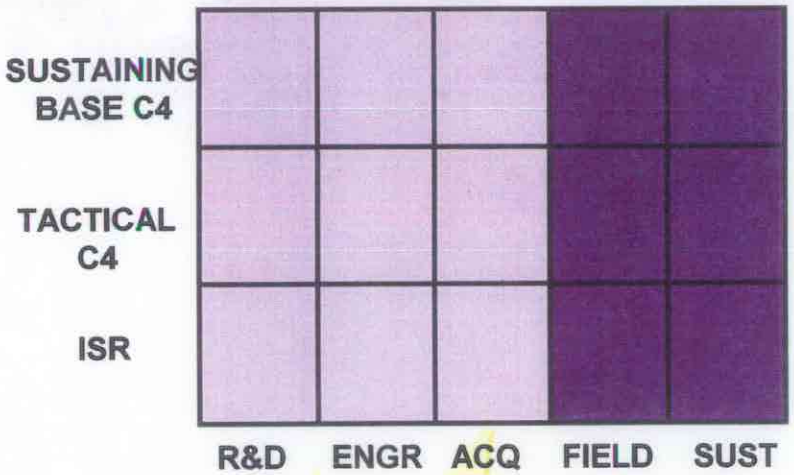
C4ISR Logistics (FY03)

- Nat'l Inventory Control Point and Nat'l Maintenance Point
- 53,766 items… Half of Army Inventory
- 6,232 Major Items Managed
- 900 Fieldings
- 730 New Equipment Training Missions
- $1B in Acquisition and Repair
- $425M in Foreign Military Sales
- Deployed Electronics Sustainment Support Centers
- 240 LARS in the Field
- Logistics Modernization Program

LRC Supports 50 Joint Programs

Providing C4ISR Logistics and Sustainment Support for America's Warfighter…

TEAM C4ISR
CECOM
Tobyhanna Army Depot



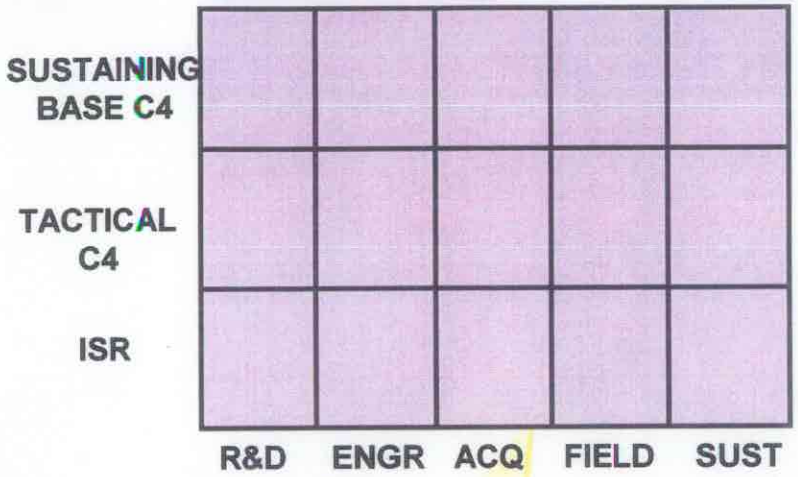
DoD's Only Joint C4ISR Depot

C4ISR Maintenance, Repair, & Overhaul

- And More: Manufacturing, Integration, Sustainment, and Force Projection
- All Army C4ISR, from Hand Held Radios to Satellite Communications
- All Air Force Ground Communications Equipment
- Air Force and Navy Tactical Missile Guidance Systems
- 23 Forward Repair Sites (9 in SWA)
- 46K Power Projection Work Days in 03

Repairing, Sustaining, Manufacturing, and Integrating C4ISR Equipment and Systems for America's Warfighter…

TEAM C4ISR
CECOM
Acquisition Center



C4ISR Contracting

- Only Full Life Cycle C4ISR contracting capability in Department of Defense
  - R&D - Weapon Systems- Sustainment - Software Engineering -Technical Services
- $5.85B in contracts in FY03
- 13K contractual actions annually
- Cost Effective: $.0064 to procure a $ of commodity
- Designated Service Contracting Center of Excellence for Major Weapon Systems
- Joint E-Commerce Innovations support the Army, Navy, State Dept., Dept. of Energy, Commerce Dept.

Supports the Life Cycle in all commodity areas for Joint and Interagency customers

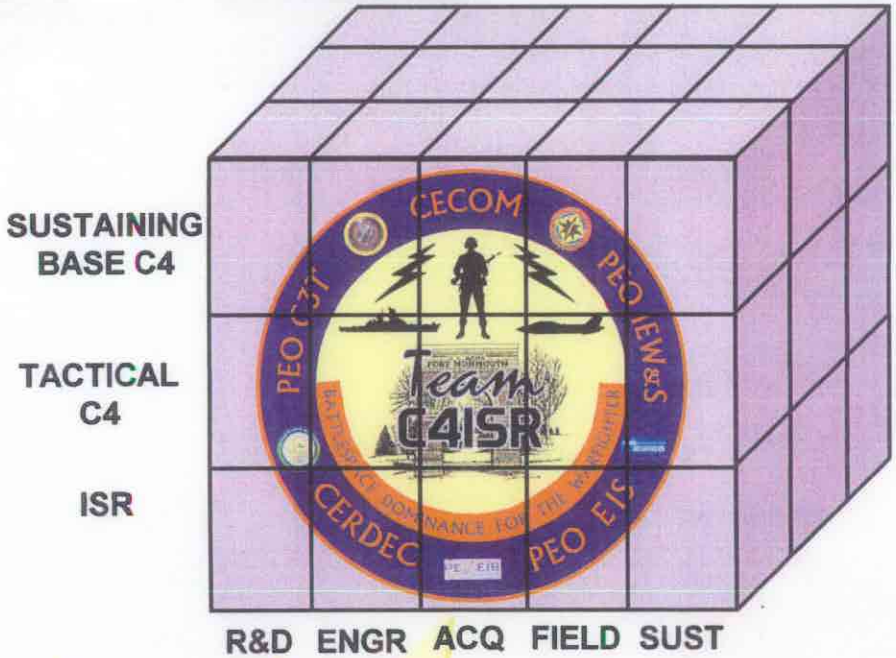
Reverse Auctioning

Business Opportunities Page

Army Source Selection Interactive Spt Tool (ASSIST)

Providing Acquisition and Contracting Solutions at the Best Value for America's Warfighter and the Taxpayer…

TEAM C4ISR Summary



- ✓ An interdependent TEAM developing, acquiring, fielding, sustaining and integrating C4ISR systems
- ✓ The sustaining base to the tactical and strategic battlespace
- ✓ Enabling Network Centric Warfare, key to Army and DoD Transformation
- ✓ Providing greater lethality, maneuverability and survivability
- ✓ World class workforce
- ✓ Strategic location

Positioned to be the DoD C4ISR Center of Excellence

The Army's C4ISR Center of Excellence

FORT MONMOUTH

Network Centric Operations and Team C4ISR

Mr. Raoul Cordeaux

Feb 24, 2004

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THE ARMY NETWORK CENTRIC TEAM

Command, Control, Communications, Computers, Intelligence, Surveillance And Reconnaissance (C4ISR)

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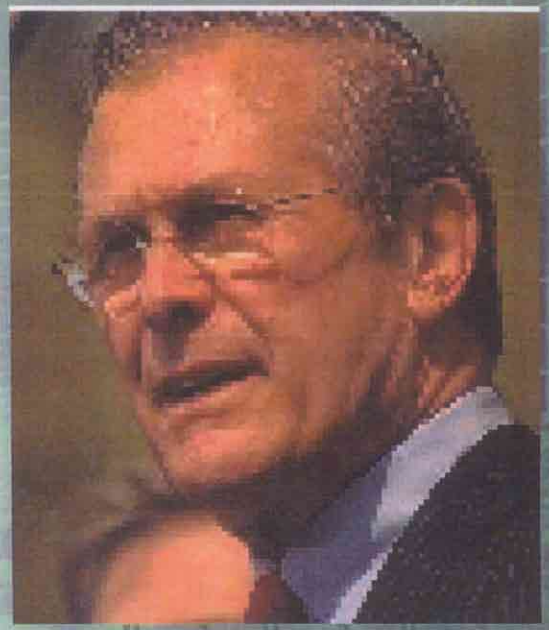
FORT MONMOUTH

Team C4ISR

NETWORK CENTRIC OPERATIONS



***....[the single-most transforming thing in our force* will not be a weapon system, but *a set of interconnections and a substantially enhanced capability]....* Secretary of Defense Donald Rumsfeld - Pentagon Town Hall Meeting Aug 9, 2001**

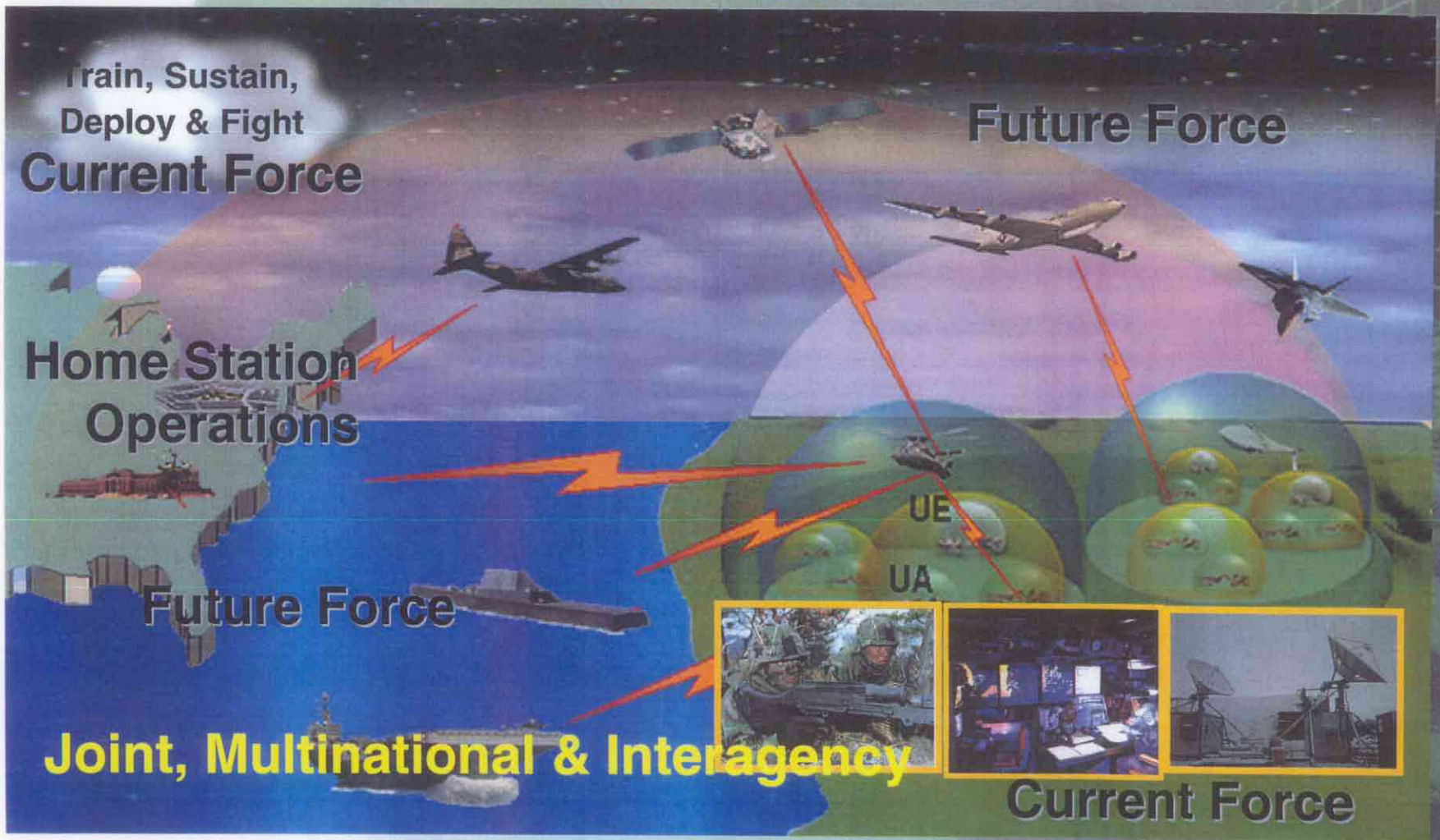
Fort Monmouth is the Home of the Army's Network Centric Operations Team

Team C4ISR

NETWORK CENTRIC OPERATIONS

IS

Joint Vision 2020



Current and Future Force *"Space to Mud"*

Current and Future Force *"Sustaining Base to Deployed Forces"*

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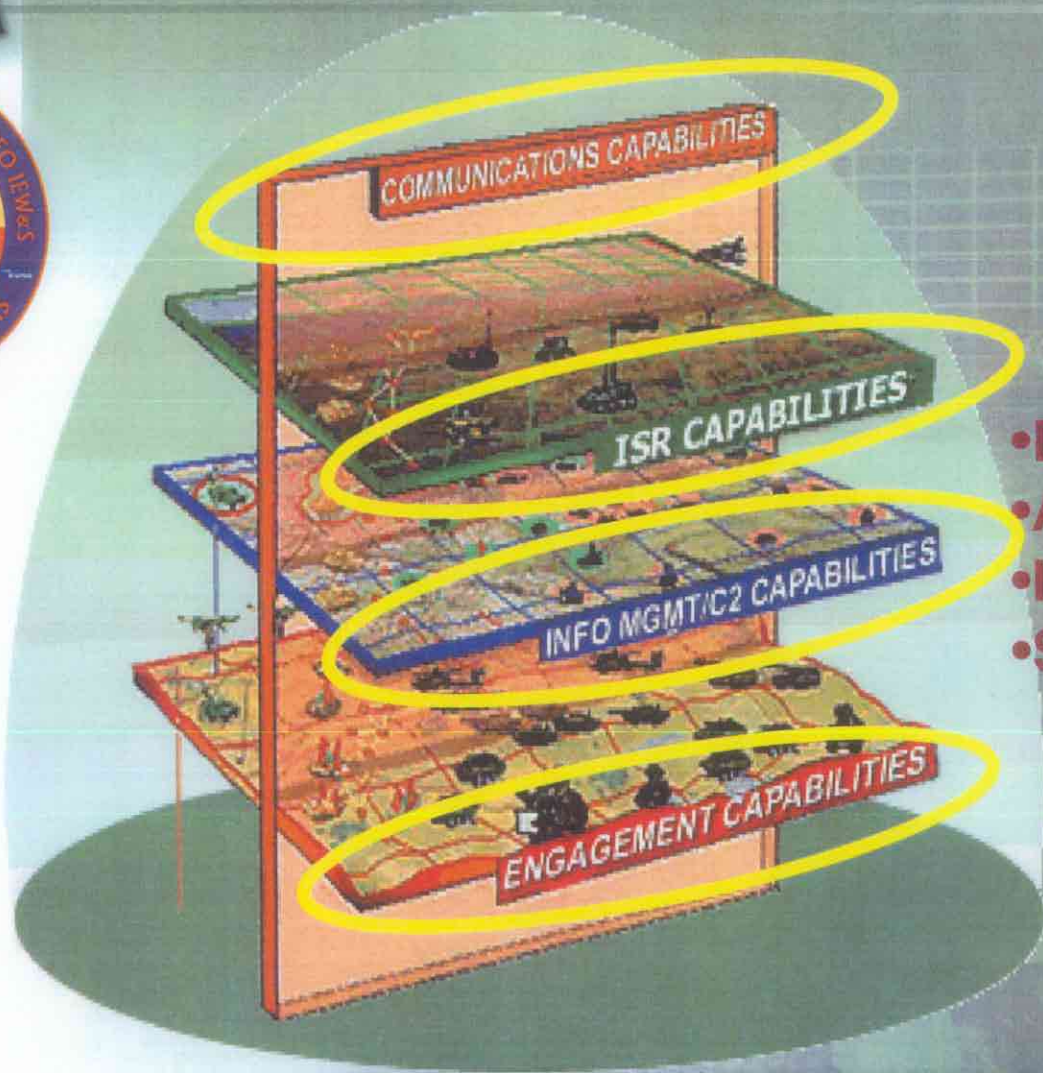
NETWORK CENTRIC CAPABILITIES



- Designs and Builds
- Acquires and Fields
- Integrates
- Sustains .....

FORT MONMOUTH

Team C4ISR

INTELLIGENCE SURVEILLENCE / RECONNAISSANCE

Capabilities

Blending Data and
Information in
Warfighter Re

Visualization

BLUE/GRAY/RED PICTURE

I UNDERSTAND THE SITUATION

I CAN SEE THE ENEMY

USE YOUR RADIO "WE GOTCHA!"

MULTIPLE SENSOR CONFIRMATION

MULTIPLE SENSOR LOCATION

Sensor Grid

Collect

UE/JTF

Tactical

Persistent ISR

IMINT

ELINT

MASINT

Information...
right place...
ght time...
ander's decision

Actionable Intelligence

Team C4ISR

COMMAND AND CONTROL

MCS
Maneuver Control System

IMETS
Integrated Meteorological Environmental Terrain System

FBCB2/BFT
Force XXI Battle Command

WHERE YOUR BUDDIES ARE

WHERE YOU ARE

WEATHER

GCCS
Global Command and Control System

ACT DECISIVELY

TERRAIN

WHERE THE ENEMY IS

Battle Command Sustainment Support System

TAIS
Tactical Airspace Integration System

TARGET PLANNING

TARGET EXECUTION

Forward Area Air Defense Command and Control

Field Artillery Tactical Data System

> ***"Navigating through a hostile zone can consume 80 percent of a soldier's time. Now I've got 80 percent of my time to think about how I'm going to kill him, instead of figuring out where he is."***
>
> **Brigadier General Robert Durbin, 1st CAV**

Team C4ISR

STRATEGIC COMMUNICATIONS

Capabilities

IRAQ INFRASTRUCTURE

CONNECT TO THE "GIG"

MAKE INSTALLATIONS "FLAGSHIPS"

HOMESTATION OPERATIONS REACHBACK

DSCS Defense Satellite Communication

Information Infrastructure Modernization

Defense Message System – Army

MMCS Multi Media Communications System

FORT MONMOUTH

Team C4ISR

TACTICAL COMMUNICATIONS

Capabilities

VOICE AND DATA
COMMS ON THE MOVE
SATELLITE AND TERRESTRIAL BASED
COMMS ON THE QUICK HALT
SECURE WIRELESS TACTICAL INTERNET
COMMS IN FIXED TACTICAL FACILITIES
• On the move satellite communications
• IPV6 enabled
• High capacity, modular hardware and software

Team C4ISR

ENGAGEMENT

Capabilities

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Team C4ISR

NETWORK CENTRIC INTEGRATION CAPABILITIES

C4ISR OTM Joint Testbed

TEAM C4ISR FT. MONMOUTH INITIATIVE

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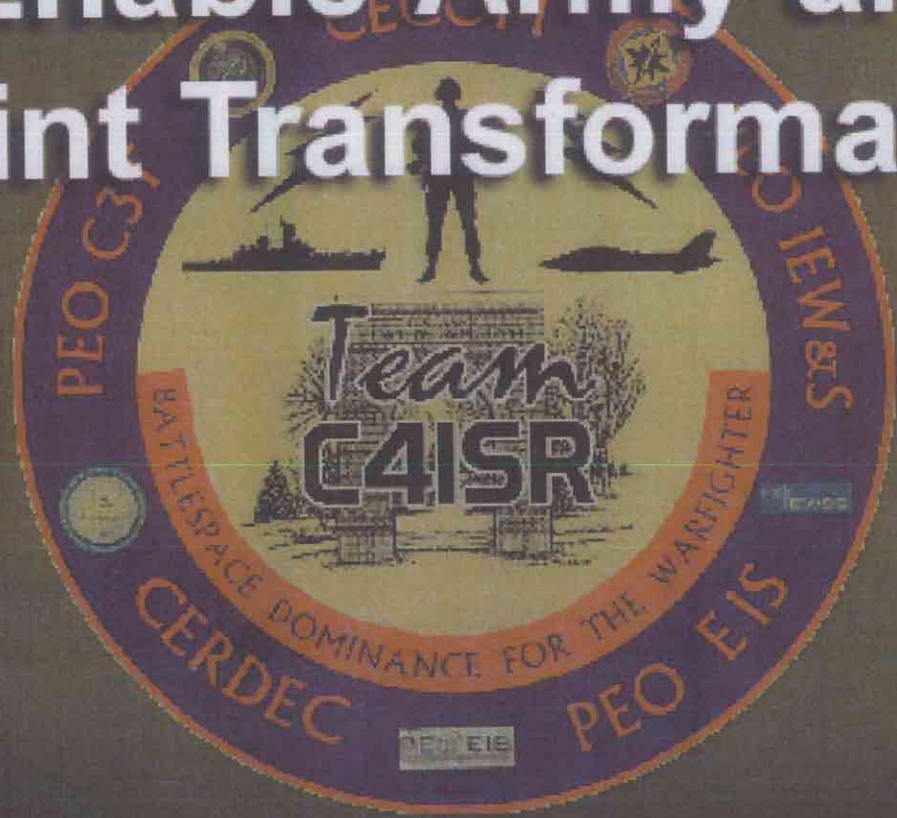
Network Centric Operations Enable Army and Joint Transformation



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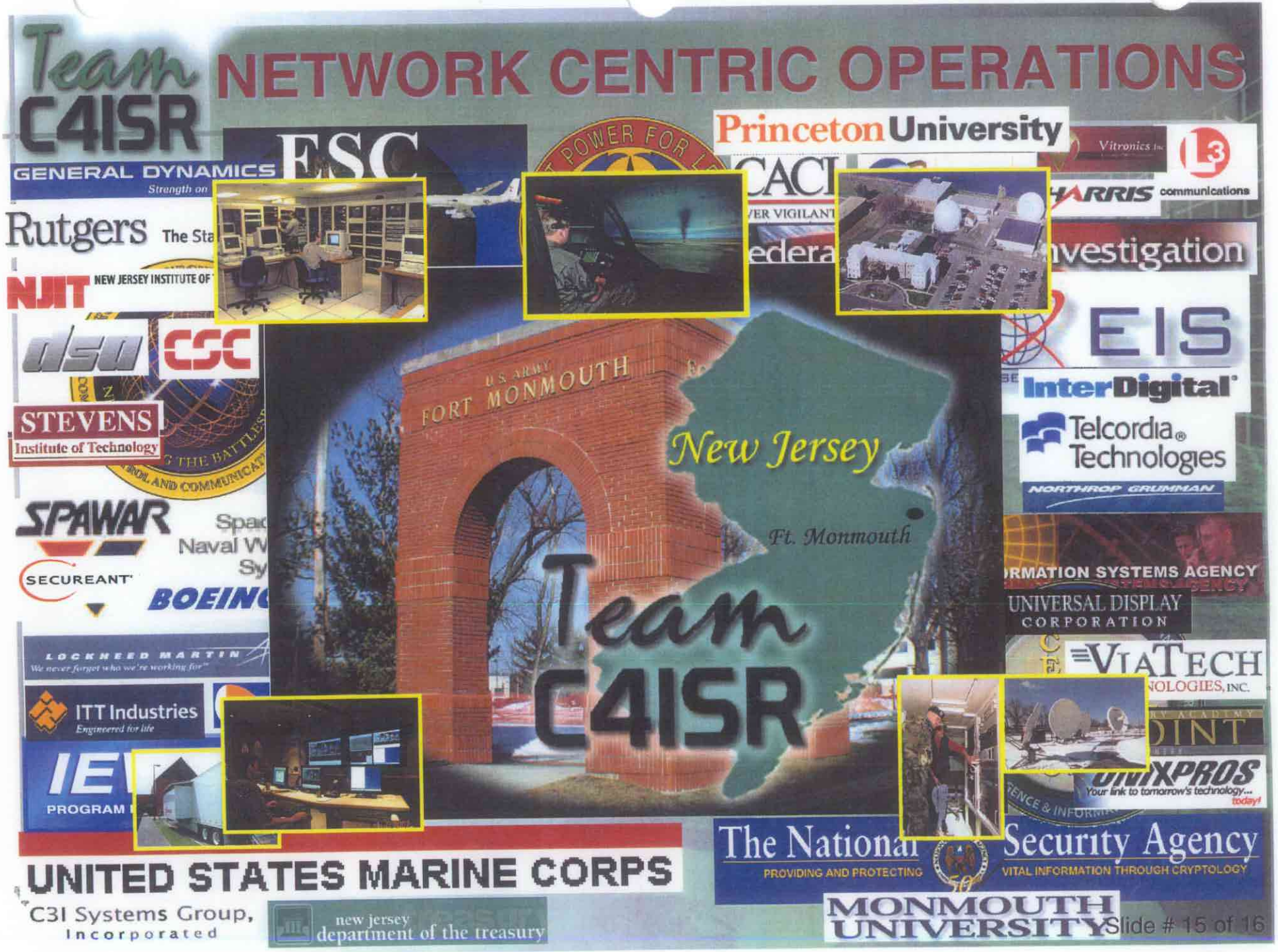
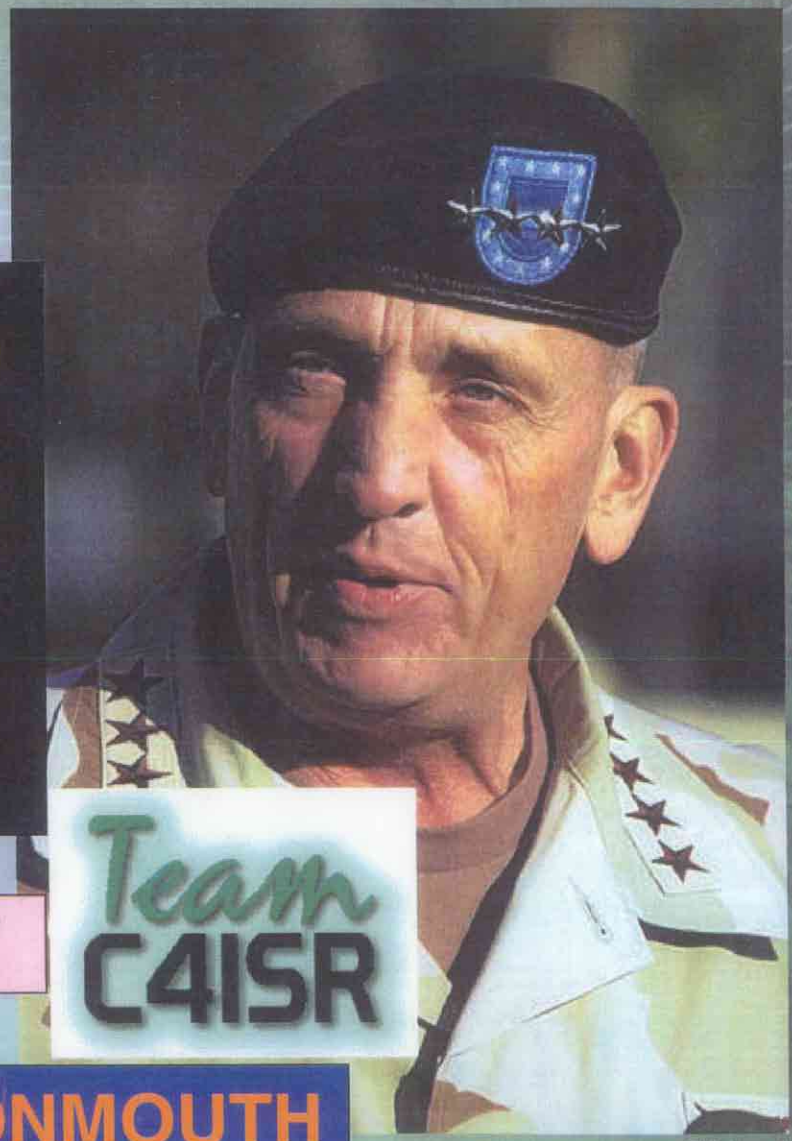
Team C4ISR NETWORK CENTRIC OPERATIONS



NETWORK CENTRIC OPERATIONS

"I've just died and went to heaven..I've seen the first bit of Network Centric Warfare that has never been experienced by the highest level of operational command…"

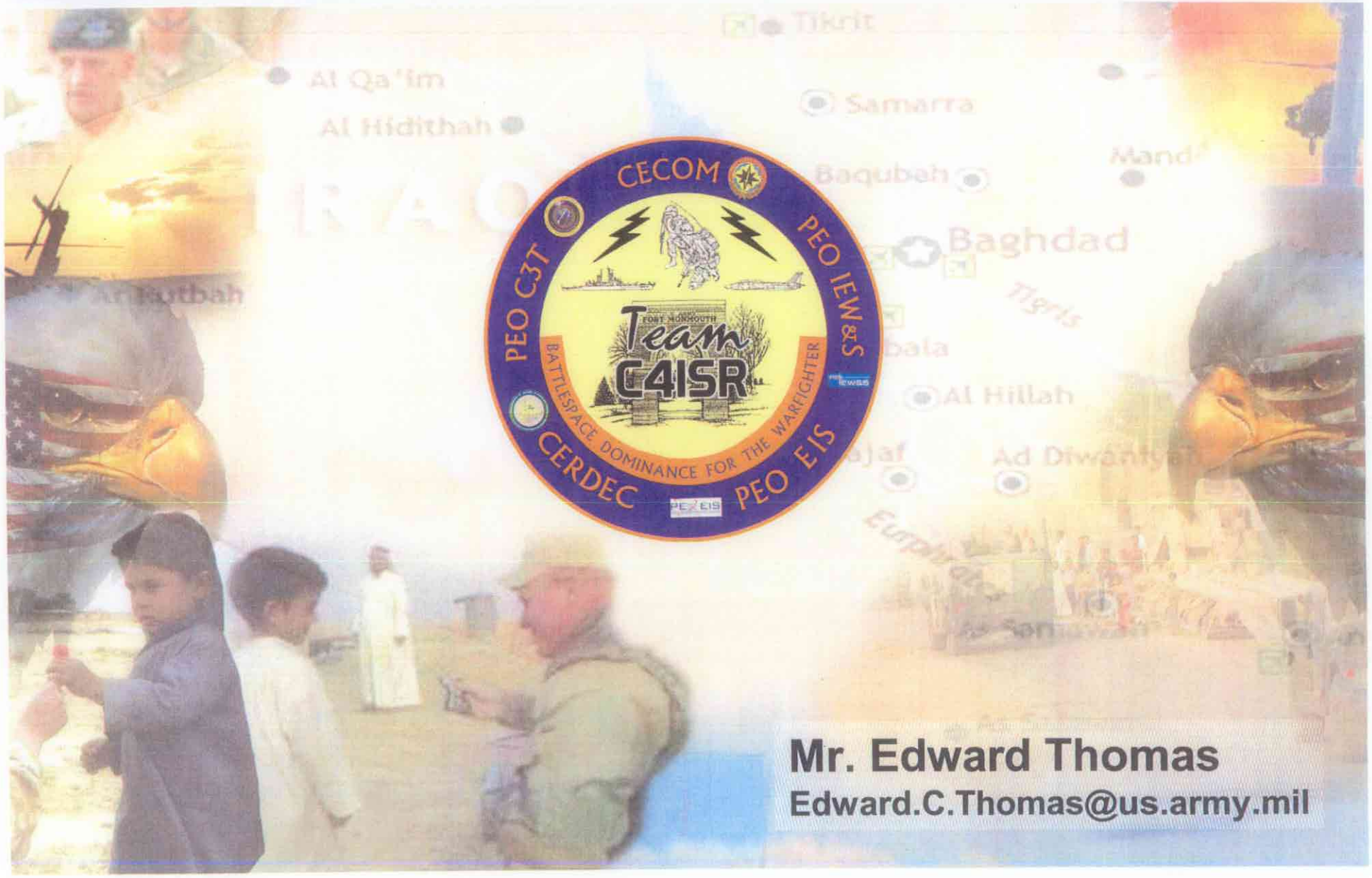
- General Tommy Franks, Network Centric Warfare Conference, January 2004.



BROUGHT TO YOU BY

FORT MONMOUTH

TEAM C4ISR Support to the Current Force



Mr. Edward Thomas
Edward.C.Thomas@us.army.mil

TEAM C4ISR Support to the Current Force

Outline

- ❑ **Overview**
- ❑ **Key Joint/Army Capabilities Provided**
- ❑ **Quick Response Stories**
- ❑ **Sustaining OEF/OIF Operations**
- ❑ **Interagency Support to Homeland Security**
- ❑ **Summary**

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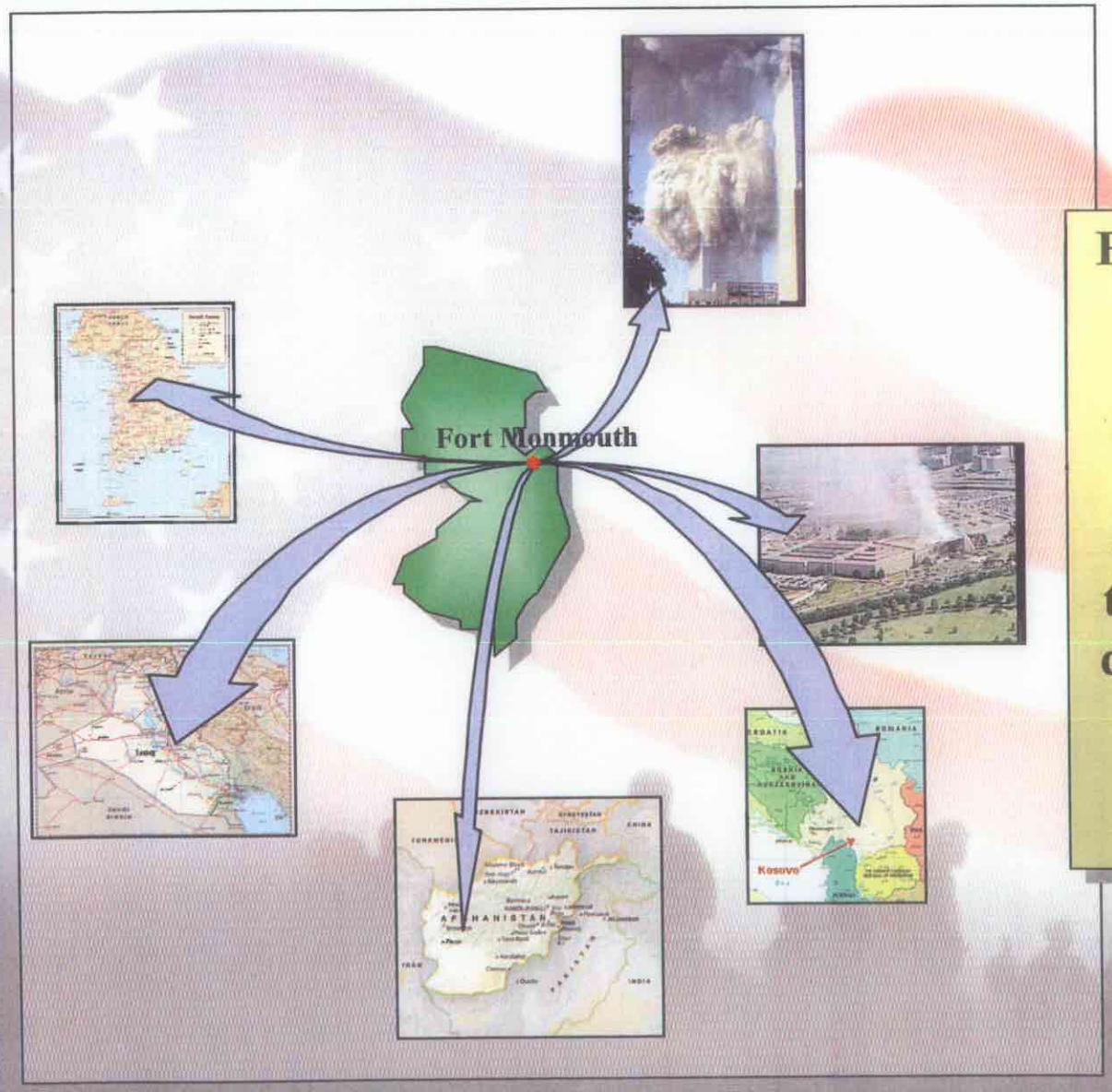
Fort Monmouth & Team C4ISR: Single Portal for the Joint Warfighter



Fort Monmouth provides a Single Portal for the Joint Warfighter with around the clock reach-back capability. We ensure prompt response to requests for assistance during war, emergencies, contingencies, and readiness and force protection exercises.

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Value of Team C4ISR

We increase the effectiveness of the Joint fighting force by providing:

Actionable Intelligence
Situational Awareness
Precision Fires
Assured Communications
Army/Joint Interoperability

See First - Understand First - Act First - Finish Decisively

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Key Joint/Army Capabilities Provided

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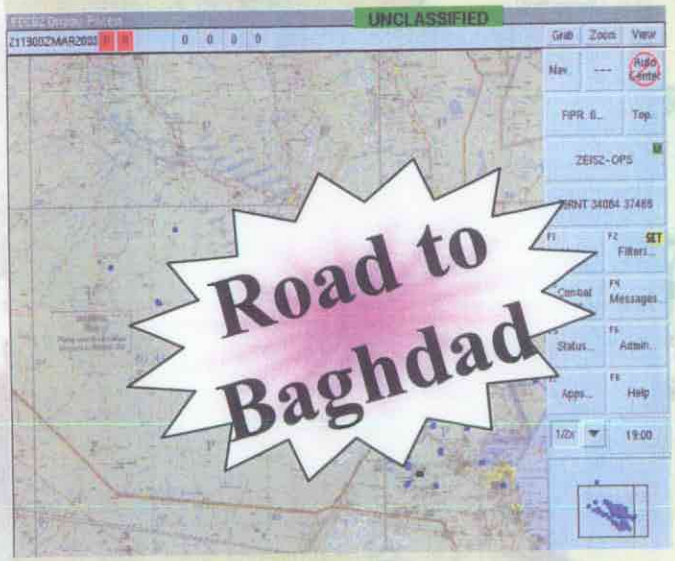
Quick Response Stories

Quick Response: Blue Force Tracking

REQUIREMENT

Provide command, control and situational awareness to commanders of the Joint and Coalition forces to correctly locate and track the position of friendly forces and to aid in avoidance of fratricide.



RESPONSE

- **Over 1,200 systems installed**
- **On 3 Continents**
- **In 2 Services (USA/USMC)**
- **And 1 Coalition Partner (UK)**
- **In 2 Coalition Command Centers**
- **All in 5 Months (Oct 02-Mar 03)**

IMPACT

- **"We would die without this system. Vehicles can move in convoy and separate as necessary with a greater sense of security. Bottom line…I need more!"** ***COL Reist, Commander, TSG, United States Marine Corps***
- **BFT raised situational awareness to unprecedented levels and will be a valued capability on future Battlefields.** ***Extract from June 03 USMC Gazette***

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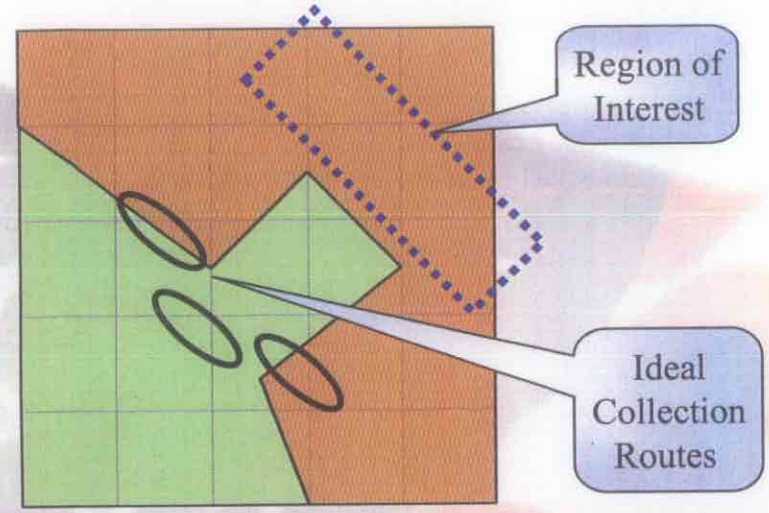
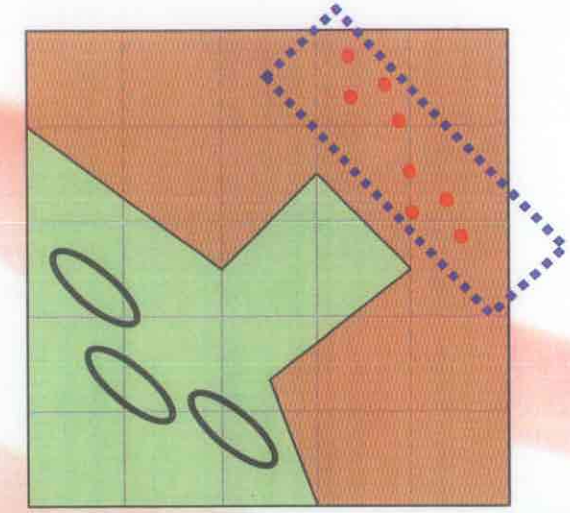
Quick Response: Guardrail Common Sensor System



PROBLEM

Due to geopolitical restrictions of the region, the platform was not able to use collection routes as originally designed and therefore could not locate threat targets



SOLUTION

- **Our embedded Field Software Engineer assessed the problem and collaborated with engineers at Fort Monmouth**
- **A week later, Team C4ISR fielded a software solution**

IMPACT

Guardrail was able to look into Iraq and provide actionable intelligence to the Joint warfighter

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Quick Response: Combat Identification Devices (CID)

REQUIREMENT

Provide a cost effective proven means to positively identify friendly ground forces on the battlefield to minimize fratricide incidents and increase combat effectiveness.

RESPONSE

In less than 90 days, Team C4ISR provided 384,000 various Combat Identification Devices to OIF/OEF units: USARMY, USMC and UK, and conducted New Equipment Training in theater– a task that normally requires 150 to 210 days!

IMPACT

- **Coalition Forces fratricide deaths were reduced significantly from Operation Desert Storm.**
- **After action reports from the field reported positive results in identification of friendly vehicles.**

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Quick Response: Aircraft Survivability

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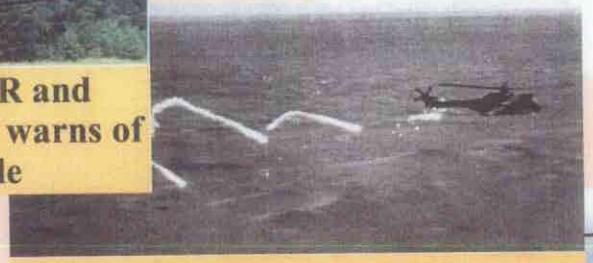
Marine Corps OIF night attack mission (HML/A-269, MAG-29, 14 April 2003)

Enemy IR Missile

AN/APR-39A(V)2 RWR and AN/AAR-47 MWS combo warns of incoming IR missile



AN/ALE-39 CMDS auto-dispenses flares. Aircrew takes evasive action

ASE WORKS

Aircraft and aircrew complete mission and return safely

"...It was a lucky night for us, but it renewed my confidence in the systems we have and their ability to protect us." -- Major Scott S. Jensen, USMC

Team C4ISR

Strategic Communications Capabilities

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Fort Monmouth & Team C4ISR:
Sustaining OEF/OIF Operations

Providing Critical Parts:
- Processed 106,753 requisitions valued at over $1B

Performing Critical Maintenance:
- 11,449 repair workorders in Electronic Sustainment Support Centers deployed to SWA
- Responded to over 3,000 software support requests

Upgrading Fielded System:
- Released 92 new software upgrades
- Supported 30 new technology insertions

24/7 Embedded Field Support:
- Deployed over 500 personnel

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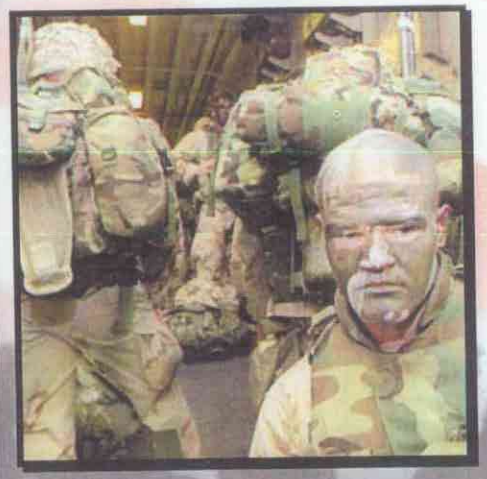
TEAM C4ISR Contributions in the aftermath of 9/11



- **We were there, on and after 9/11, with equipment and personnel**
  - **At the World Trade Center in New York City, and in New Jersey assisting survivors and aiding Search and Rescue.**
  - **At the Pentagon, in Washington with systems and expertise to reestablish Pentagon communications**
- **At home, at Fort Monmouth staffing an Emergency Operations Center, 24/7 - The Nerve Center and Focal Point for Actions**

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Interagency Support to Homeland Security

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Prevention Technologies

- Biometrics
- Networked Sensors
- Information Fusion
- Command Operations
- Collaboration

Protection Technologies

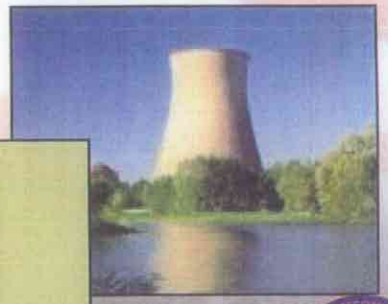
- Detection Sensors
- Information Fusion & Security
- Improved Situational Awareness

Response Technologies

- Command Posts
- Communications/ Wireless/Gateways
- Situational Awareness
- Interoperability

Recovery Technologies

- Control of Incident Site
- Accountability
- Information Flow
- Follow on Sustainment
- Reconstitution of Services



Federal Bureau of Investigation www.fbi.gov

U.S. Department of Transportation

Homeland Security U.S. COAST GUARD

United States Secret Service

Support to New York State Metropolitan Transportation Authority

Vulnerability Mitigation Program

DESCRIPTION:

Robust Command and Control and Communications System of Systems, incorporating Real-Time Sensor and Intelligence Data to New York State Metropolitan Transportation Authority (MTA) Operational Elements providing true Situational Awareness

OBJECTIVES:

Provide protection for:

- **Infrastructure**
- **Passengers**
- **Employees**

Team C4ISR will provide Systems Engineering and Technical "Honest Broker" Support for the Development of an Integrated Security System.

Larger than the Next 10 largest Mass Transit Systems *COMBINED*

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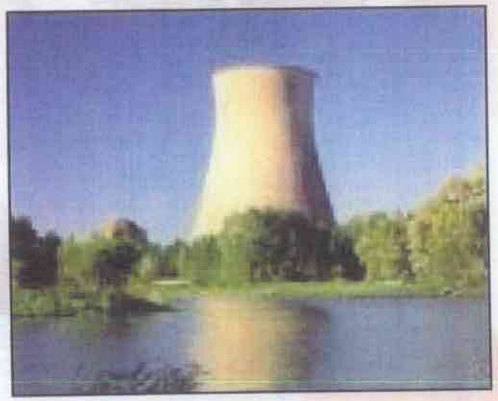
Support to Nuclear Power Facilities

Infrastructure Protection

DESCRIPTION:

A mixture of Government communication and sensor equipment, Army Command and Control, commercial radar and video equipment to provide enhanced Situational Awareness to the New Jersey State Police and the New Jersey Army National Guard.



OBJECTIVES:

Create and employ a model to enable multiple Federal/State and Local Agencies to effectively work together to assure Joint communications and information collection and dissemination.

Team C4ISR provides Systems Engineering to assure interoperability across all equipment and agencies.

Implemented at Salem and Oyster Creek Power Facilities in NJ

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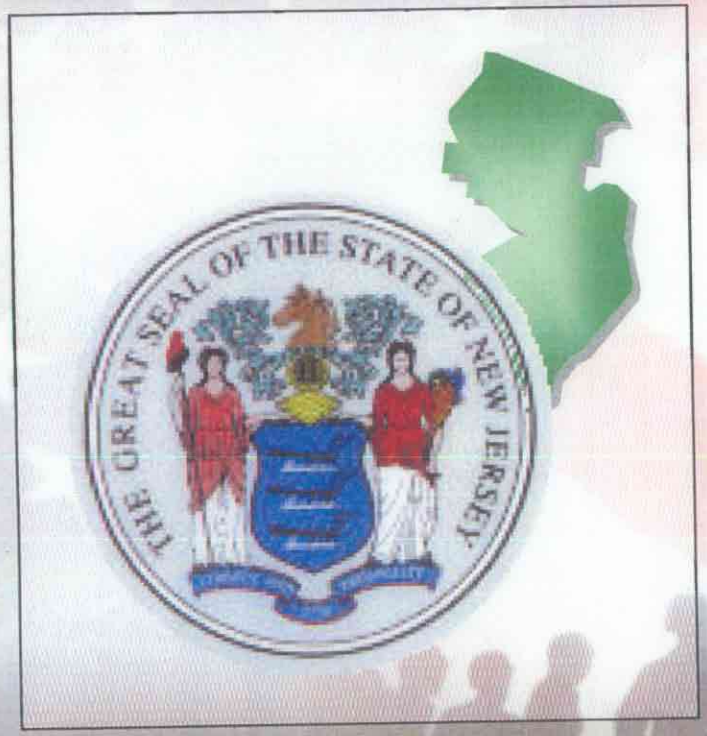
Support to State of New Jersey

Intrusion Defense System

DESCRIPTION:

Cooperative Research and Development Agreement (CRADA) established to review vulnerabilities associated with the protection of NJ State networks



OBJECTIVES:

Apply Army Intrusion Detection technologies to the 37 separate networks that make up the NJ information system

Team C4ISR assessed 37 different network and recommended products and solutions consistent with the architectural design

Briefed the National Association of State CIO's.
Leverageable to other States

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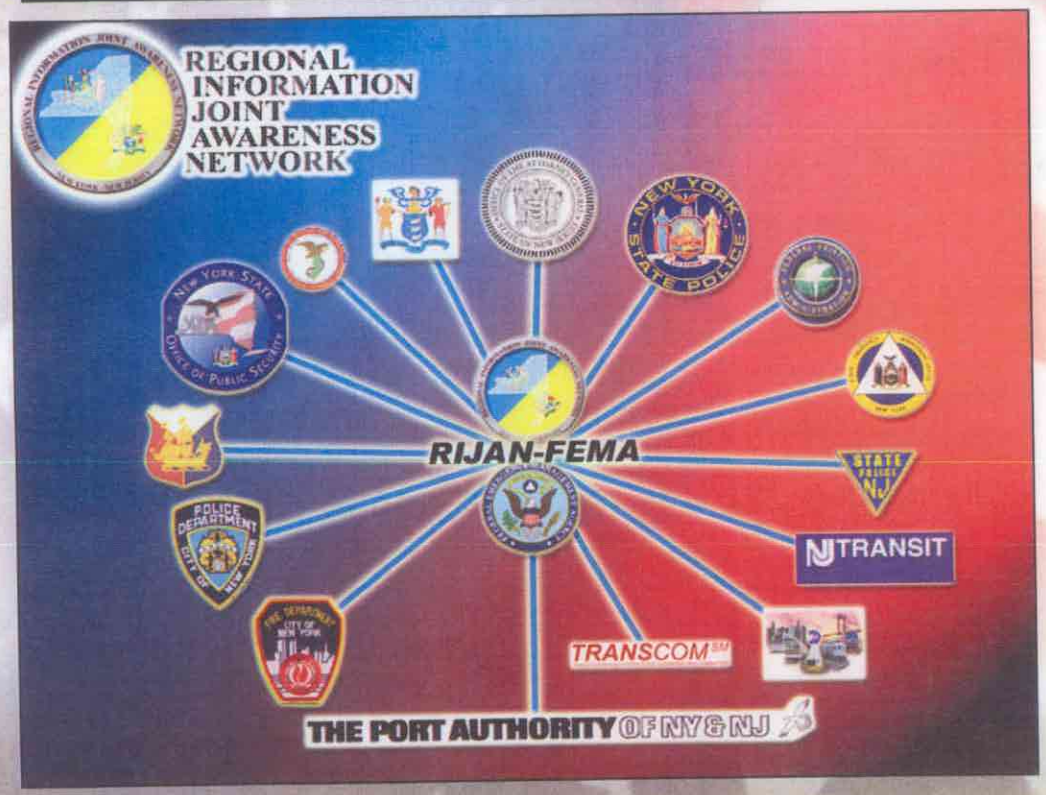
Support to the Port Authority of NY & NJ

Regional Information Joint Awareness Network

DESCRIPTION:

Federally funded platform for regional inter-agency security and emergency management communications and coordination network.



OBJECTIVES:

To provide information sharing and collaboration within the northeast region and selected national interfaces

Team C4ISR will perform system engineering and architecture

Briefed to Department of Homeland Security at the Undersecretary level

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Enabling Interagency Communications

Joint Users Interoperability Communications Exercise (JUICE)

Joint Users Interoperability Communications Exercise 2003/2004

Conducted by Ft. Monmouth with World-Wide Links to Other Organizations

- ✓ **Unique Joint, Interagency, and Multi-national exercise capability**
- ✓ **Performed at the direction of OSD NII and the Joint Staff**
- ✓ **Objectives are to: Improve communications capability, improve interoperability, and improve information assurance**
- ✓ **Accomplished thru: existing technology, policy and governance, and enhanced training**

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Team C4ISR: Enabling Joint, Interagency, & Multinational Network Centric Operations

"Joint warfighting is the key to greater things on the battlefield...

The thing that enables that is C4ISR."

General Richard B. Myers
Chairman of the Joint Chiefs of Staff

We've Made Network Centric Operations a Reality for Some.
We'll Make it a Reality for ALL!

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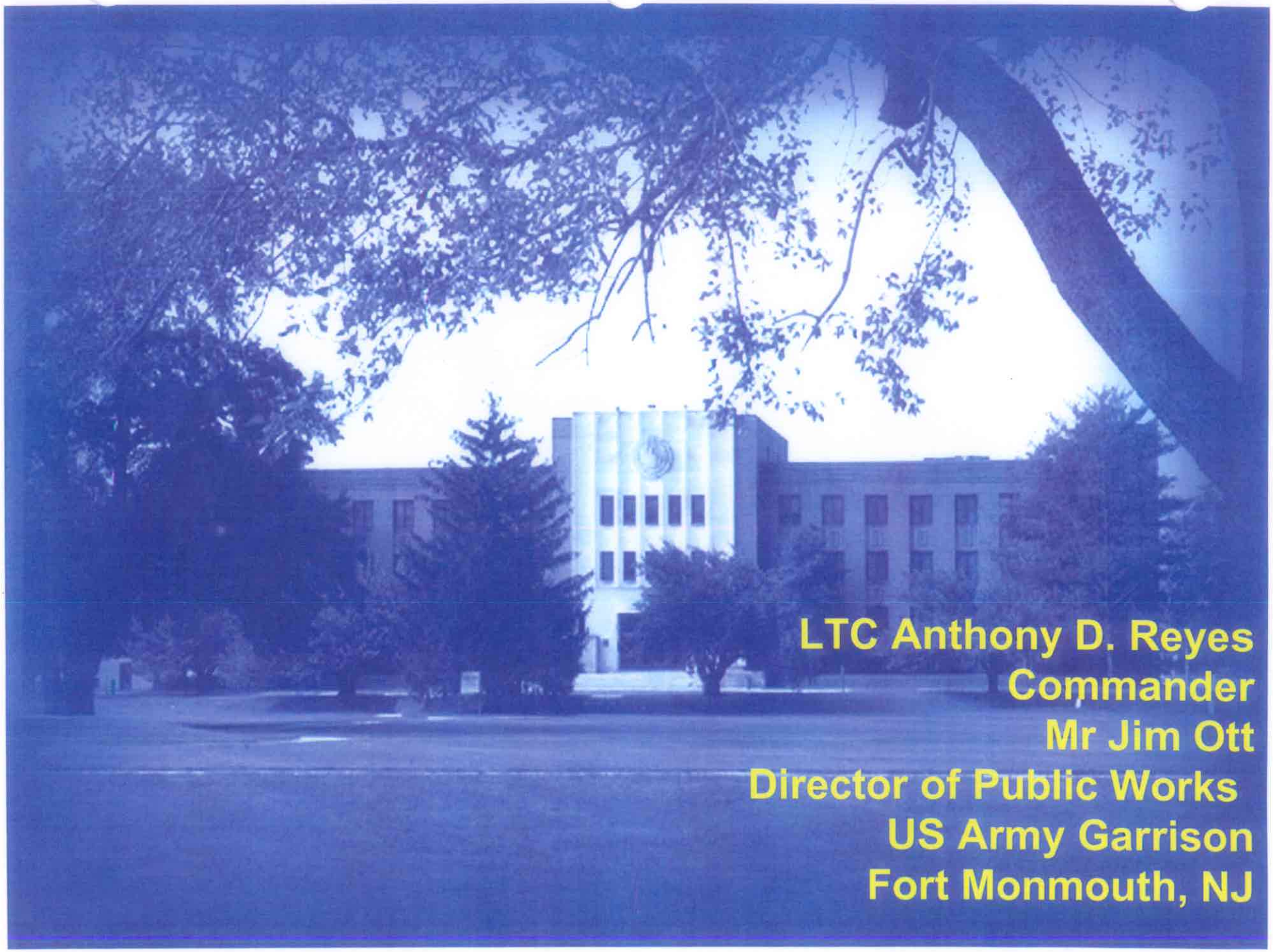

LTC Anthony D. Reyes
Commander
Mr Jim Ott
Director of Public Works
US Army Garrison
Fort Monmouth, NJ

Fort Monmouth

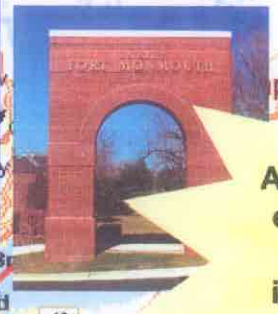
Fort Monmouth is an Acquisition, Logistics & Technology-Oriented Installation providing support to the Joint C4ISR Community (Command and Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance), DoD & Federal Agencies on Post and in the Region.

Efficiently Operated, Multi-Purpose Installation Supporting a Joint, Regional Community

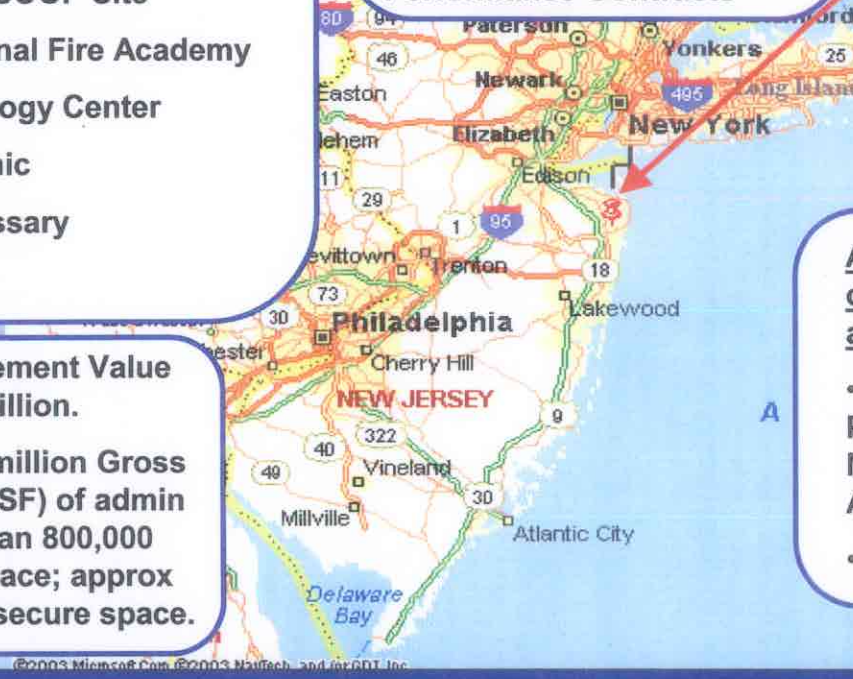
- ✓ Team C4ISR
- ✓ Army Research Laboratory
- ✓ US Military Academy Prep School
- ✓ Joint Information Engineering Office
- ✓ Military Surface Deployment & Distribution Command
- ✓ FEMA Region II COOP Site
- ✓ Northeast Regional Fire Academy
- ✓ FBI Info Technology Center
- ✓ Regional VA Clinic
- ✓ Defense Commissary
- ✓ Post Exchange

Ongoing Initiatives:

- Enhanced Use Leasing
- Residential Community Initiative
- Utilities Privatization
- Energy Savings Performance Contracts



Among the least expensive (per person) installations to operate



- Plant Replacement Value exceeds $1.1 Billion.
- More than 1 million Gross Square Feet (GSF) of admin space; more than 800,000 GSF of R&D space; approx 60,000 GSF of secure space.

Ability to attract complementary, new missions and work to Ft. Monmouth:

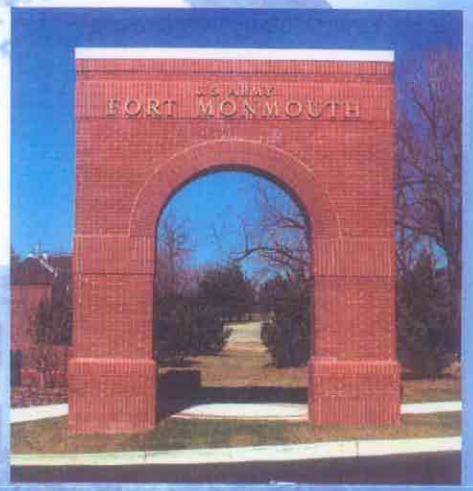
- Homeland Security – NY/NJ Port Authority; NYC Metropolitan Transportation Authority.
- Joint C4ISR missions

Since 1993, the DoD has invested more than $200 Million into the Fort Monmouth infrastructure

Economic Impact

Estimated NJ Impact with Multiplier Effect - $3.3 Billion And over 22,000 Jobs

FY03 Acquisitions $969M



• Employees	8,970
• Military/family	2,019
• Military/off post	1,244
• Reservists	870
• Veterans' Clinic	4,000
• Retirees	23,117
• TOTAL	40,220

Payroll Over $458M

Fort Monmouth is an "economic engine" for New Jersey

Agenda

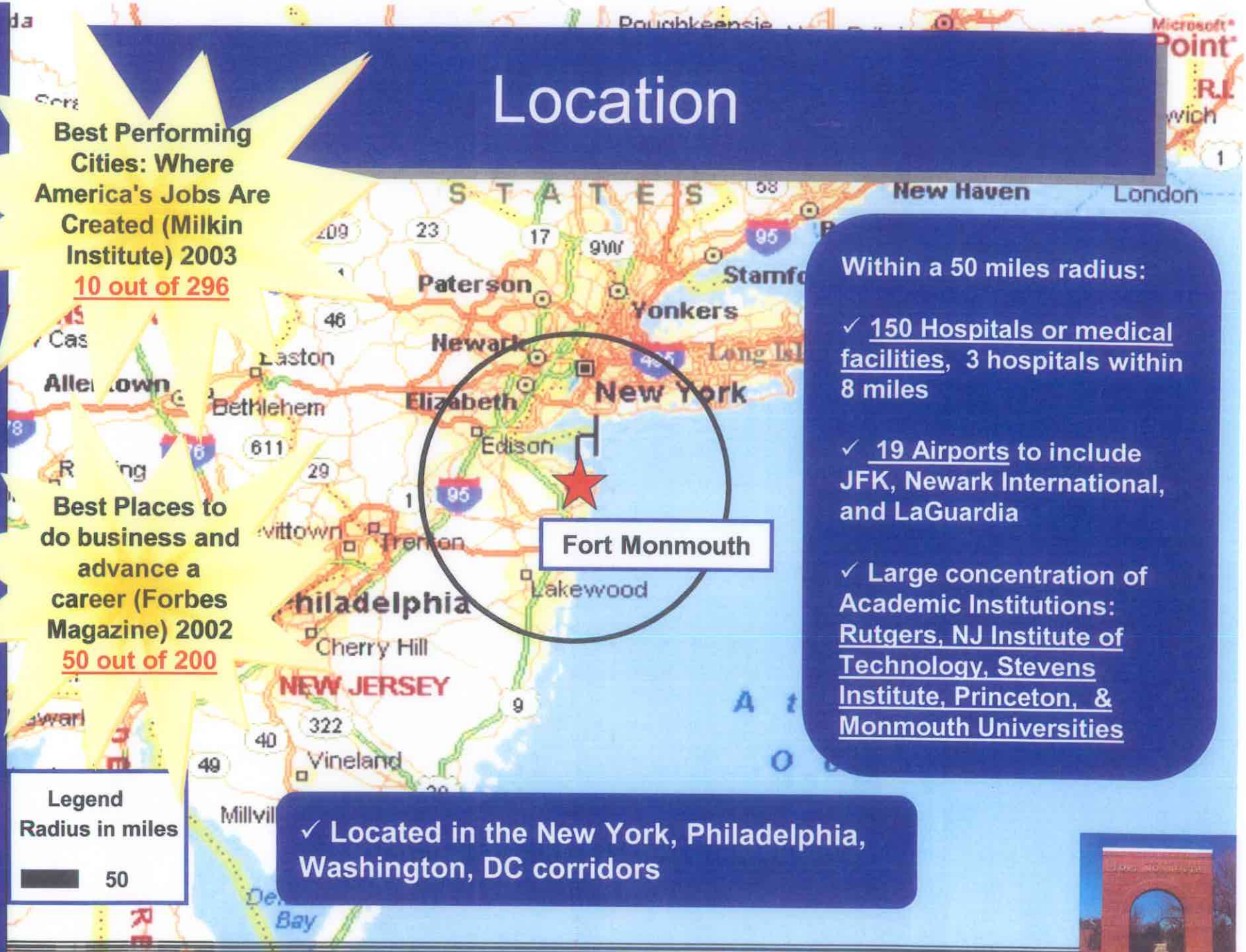
- ✓ Location
- ✓ Master Plan/Expansion Capabilities
- ✓ Tenants
- ✓ Reserve Partnerships
- ✓ Regional Support
- ✓ Community Support
- ✓ Well-Being Programs
- ✓ Force Protection/Installation Security
- ✓ Unique Facilities
- ✓ Conclusion

FORT MONMOUTH

Location

Best Performing Cities: Where America's Jobs Are Created (Milkin Institute) 2003
10 out of 296

Best Places to do business and advance a career (Forbes Magazine) 2002
50 out of 200



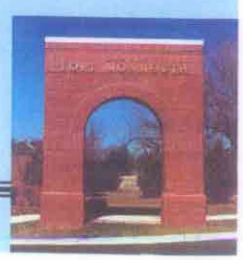
Within a 50 miles radius:

✓ 150 Hospitals or medical facilities, 3 hospitals within 8 miles

✓ 19 Airports to include JFK, Newark International, and LaGuardia

✓ Large concentration of Academic Institutions: Rutgers, NJ Institute of Technology, Stevens Institute, Princeton, & Monmouth Universities

✓ Located in the New York, Philadelphia, Washington, DC corridors



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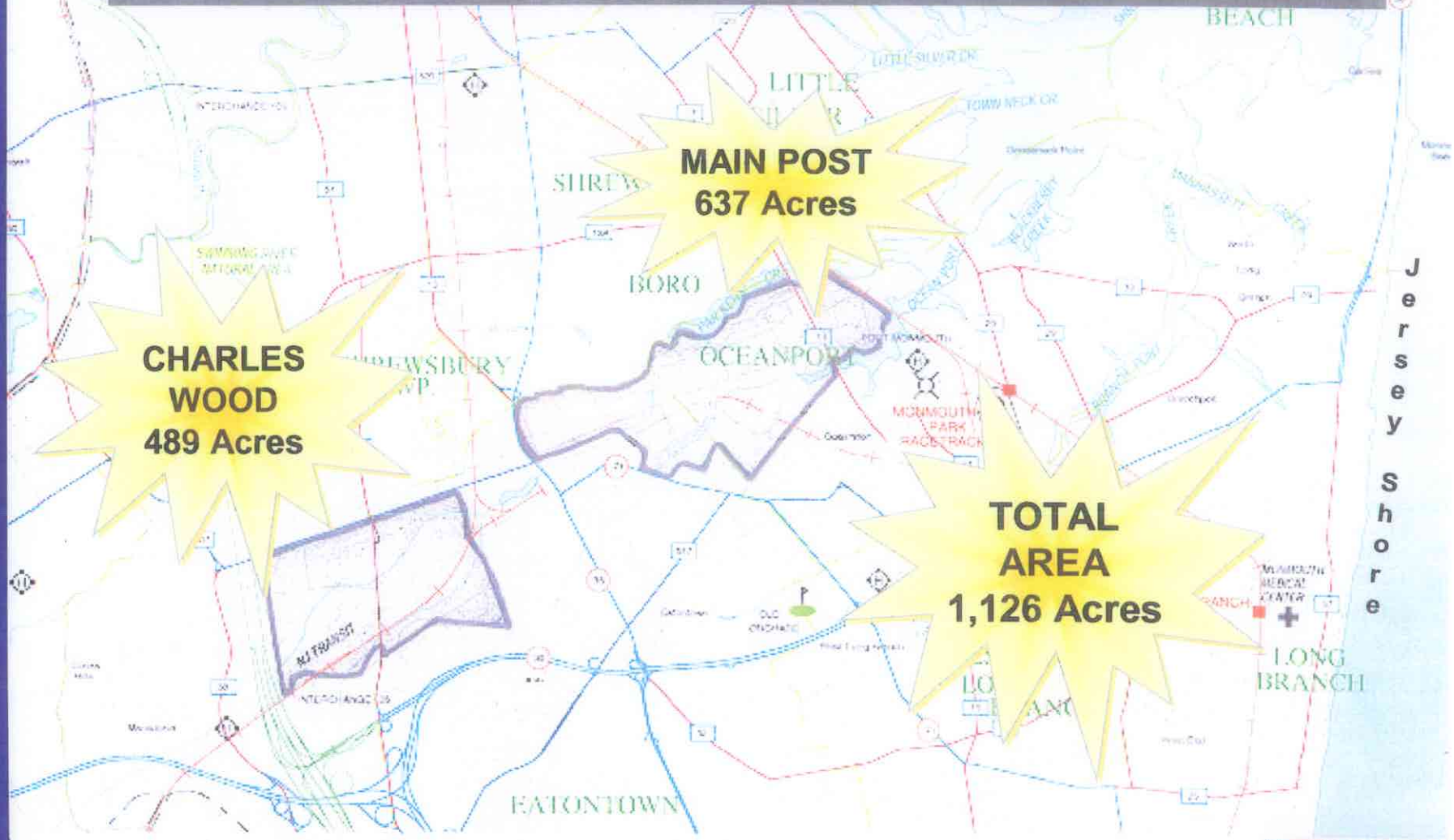
Fort Monmouth



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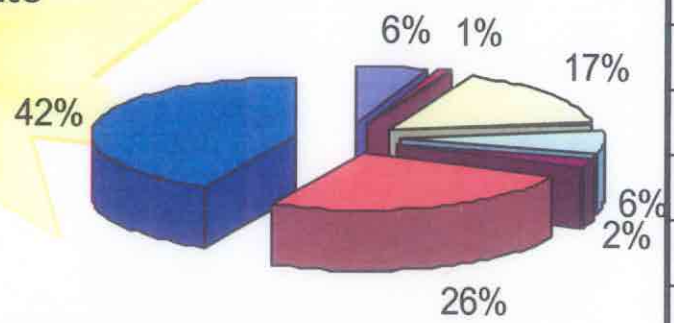
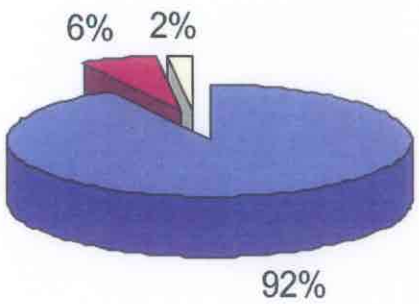
Summary of Real Property

Modern Quality Assets Dominate the Fort Monmouth Inventory



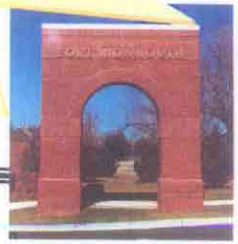
TOTAL ASSETS: 4,995 KSF

OPS & Training	**282 KSF**
Maint. & Prod.	46 KSF
RDT&E	**829 KSF**
Supply & Storage	317 KSF
Medical	121 KSF
Administrative	**1283 KSF**
Housing & Community	2117 KSF
TOTAL	**4,995 KSF**



Permanent Assets	92%
Semi-Perm Assets	06%
Temporary Assets	02%

DoD Invested > $200M Into Infrastructure Since 1993



FORT MONMOUTH

Expansion Capability

- ✓ Mission Assets 2,394 KSF
  - OPS / TNG (282 KSF)
  - RDT&E (829 KSF)
  - ADMIN (1,283 KSF)
- ✓ Requirements - 1,850 KSF

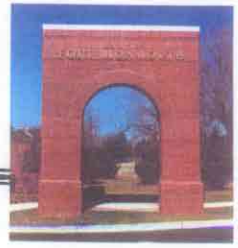
Mission Assets House 83% of the Post Population

- ✓ Demolitions Planned - 37 KSF
- ✓ EUL Provides Space Gains 97 KSF

Can Accommodate Nearly 4,000 Additional Personnel With Low To Moderate Cost

✓ **Available for Mission Expansion: 604 KSF**

✓ Low Cost	3,000 PN	492 KSF
✓ Moderate Cost	700 PN	112 KSF



FORT MONMOUTH

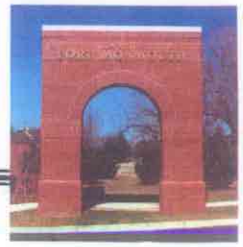
Buildable Acres

- ✓ **Summary of Installation Land Assets**
- ✓ Total Acreage Owned **1,126**
  - Developed **- 865**
  - Constrained (Natural / Man-made) **- 101**
  - Buildable **160**

160 Acres Available for Mission Expansion

- ✓ **Suitable for Administrative and RDT&E Land Uses**

- ✓ **Largest Contiguous Parcel**
  - 80 Acre Site can Support Light Industrial Facilities **1,500,000 SF**
  - Can Accommodate Additional Personnel **4,000 PN**



FORT MONMOUTH

Expansion Summary

✓ **Facilities Expansion - Can Easily Meet Increased Mission Requirements**

- Low Cost Consolidations **3,000 PN**
- Moderate Cost Modernization **700 PN**

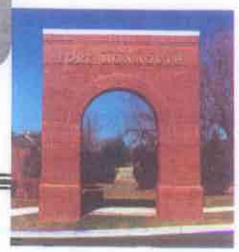
✓ **Buildable Acres - More than Adequate to Construct C4ISR Facilities**

- New Construction **4,000 PN**

✓ **Utility Expansion - Water, Wastewater, Natural Gas, and Electricity Are Purchased From the Local Utility Companies**

- Abundant On Post Infrastructure to Meet Increased Mission Needs
- Can Accommodate Almost Double the Current Population (8,200 PN)

Additional 8,000 Personnel Can Be Supported



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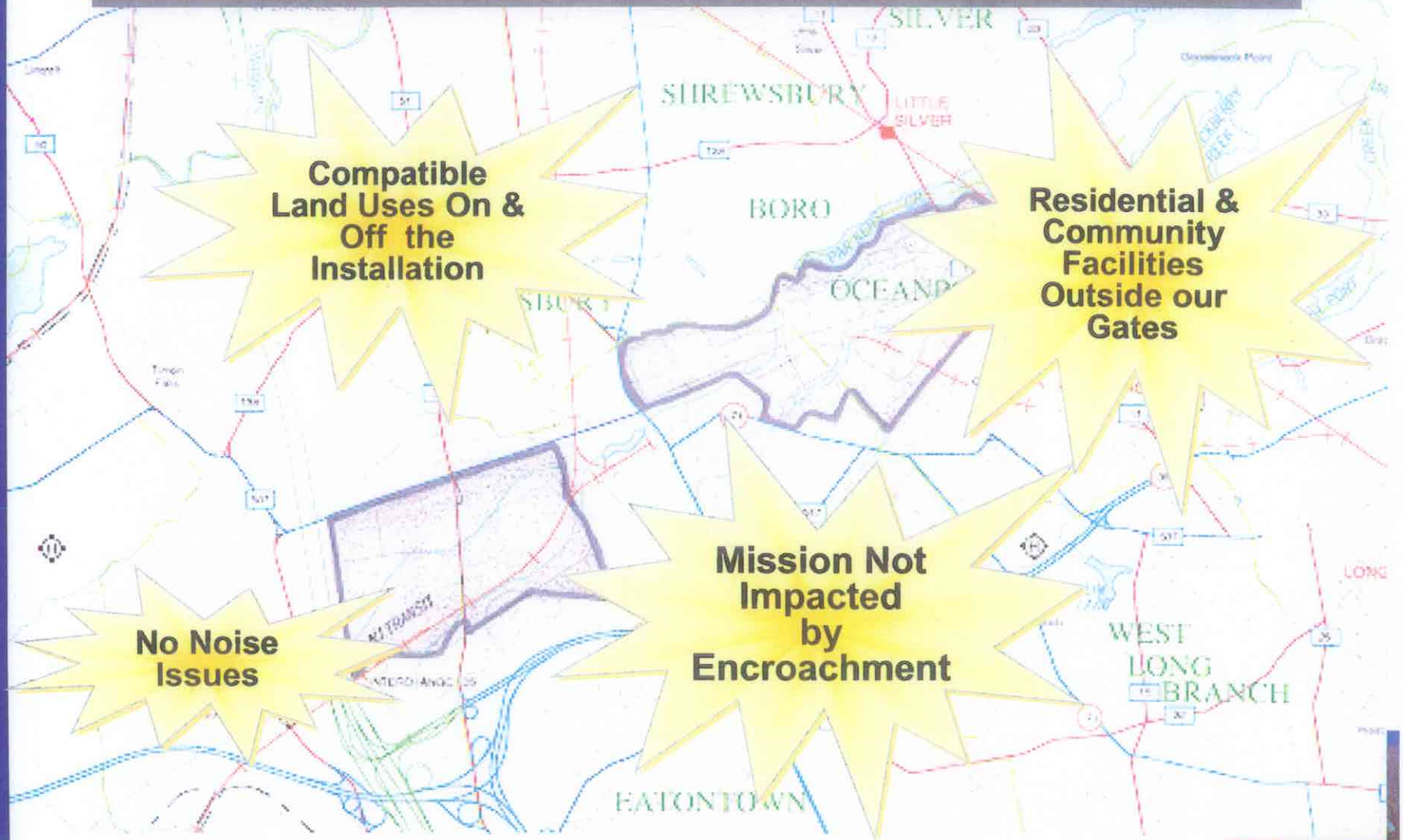
Urban Encroachment



Compatible Land Uses On & Off the Installation

Residential & Community Facilities Outside our Gates

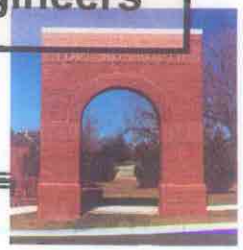
Mission Not Impacted by Encroachment

No Noise Issues

FORT MONMOUTH

Installation Transformation Plan

Key Initiatives	Funding	Contract Execution
Privatization Of Utility Systems	Private	DESC
Residential Community Initiative (RCI)	Private	HQDA RCI Office
Enhanced Use Lease (EUL)	Public / Private	Corps Of Engineers
Energy Savings Initiatives	Public / Private	DOE & DESC
Access Road Improvements	Public / Private	Monmouth County
Modernize Communications Infrastructure	DoD Investment	CECOM
MCA Program	DoD Investment	Corps Of Engineers



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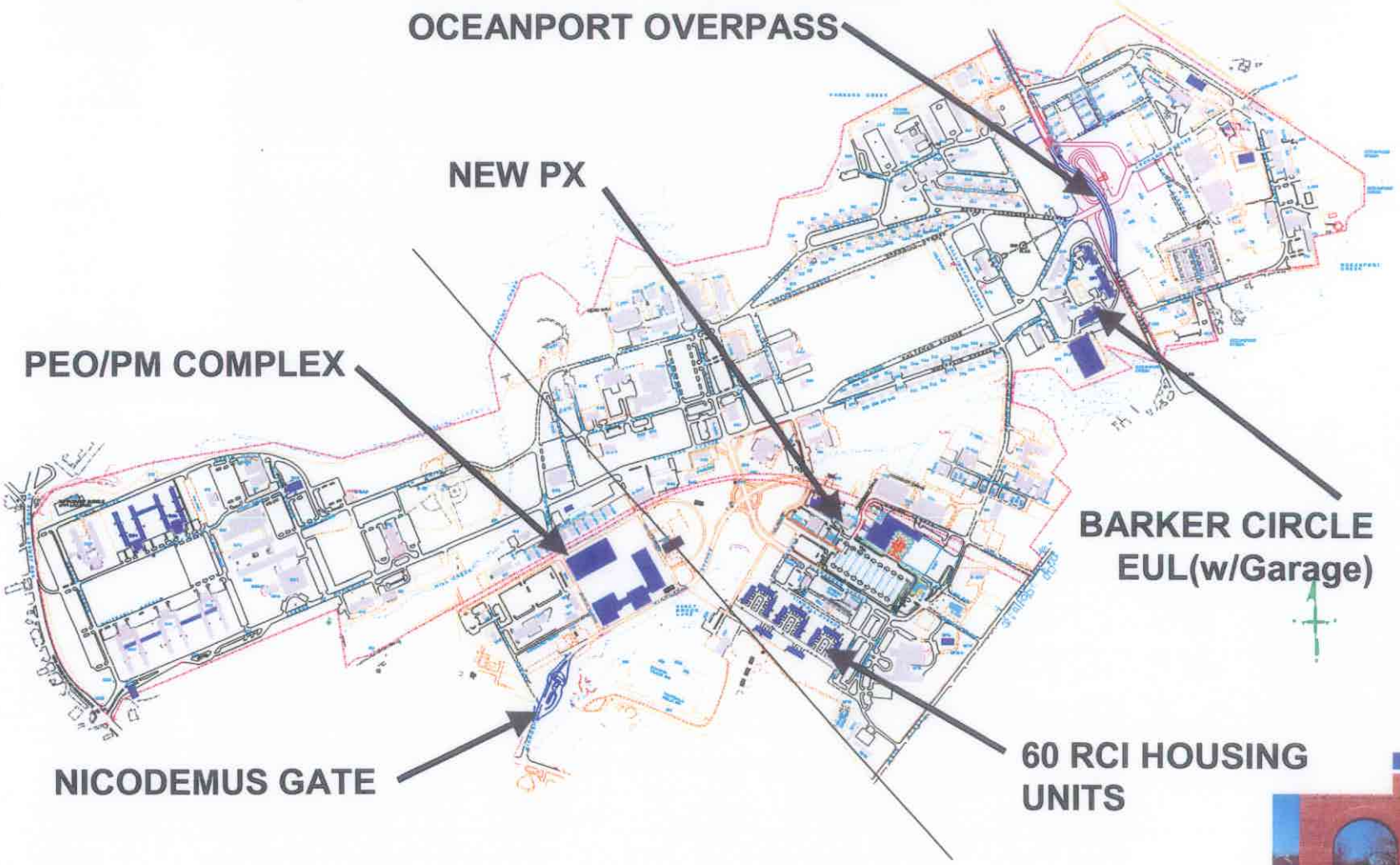
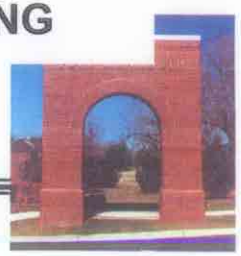
Future Planning Projects
Main Post





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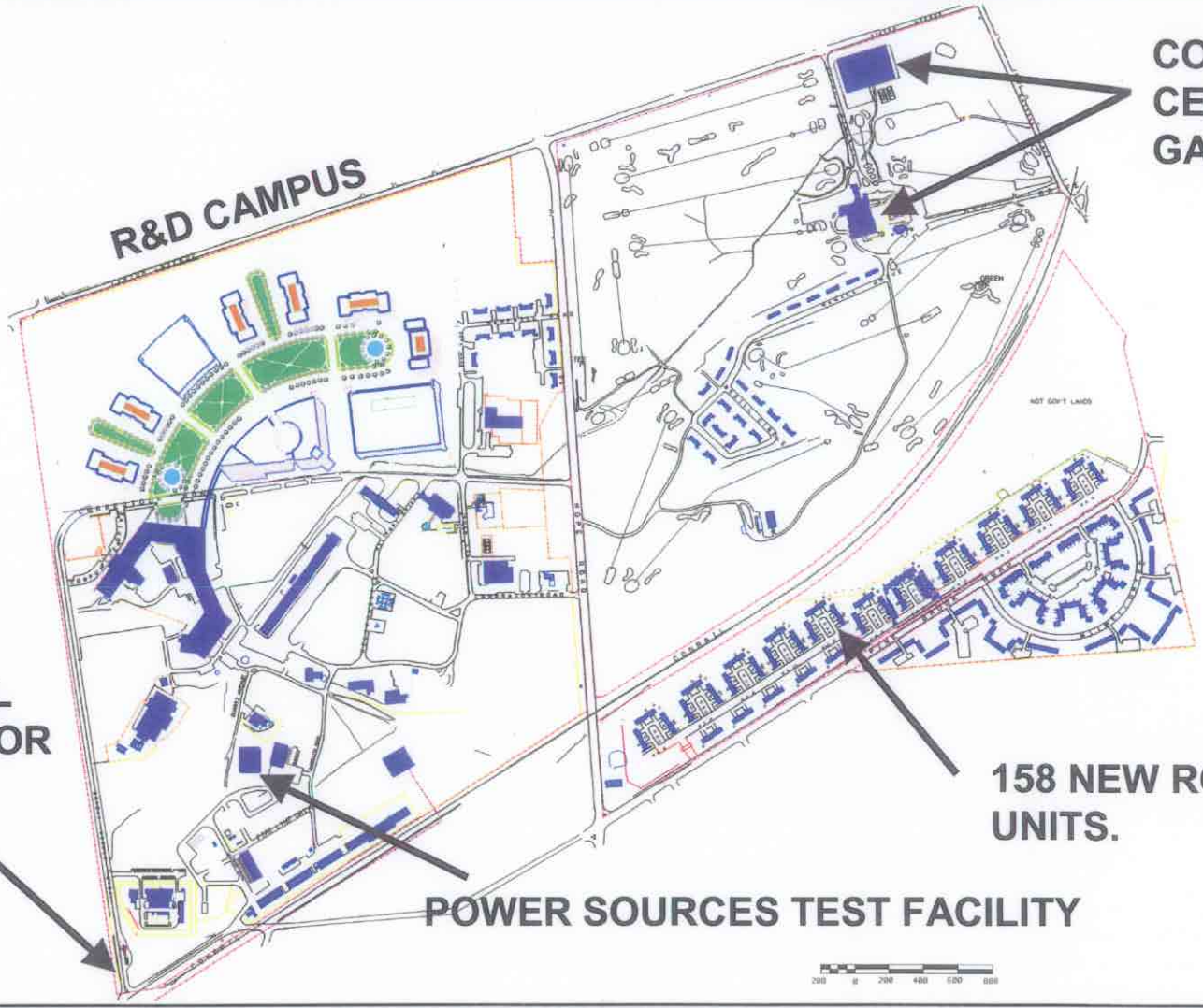
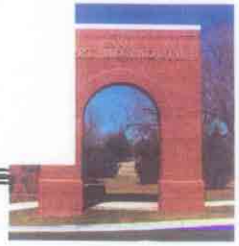
Future Planning Projects
Charles Wood





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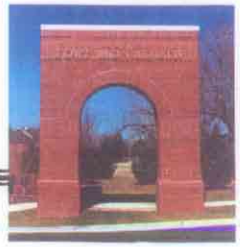
Residential Community Initiatives (RCI) Plan

- ✓ **Army Approved Project** — **Jan 03**
- ✓ **Issued RFQ** — **June 03**
- ✓ **Transfer of Assets** — **May 05**
- ✓ **End state inventory 399 units**
  - 218 Units Newly Constructed
  - 181 Units Renovated

Family well-being
Quality of life
Retention
Readiness
Quality homes

- ✓ **Benefits of Privatization**
  - Eliminates Army Sustainment Cost
  - Increased Tax Revenue to the Local Community for the 216 Non-Military Housing Units

- ✓ **Lead Installation for the Fort Monmouth, Carlisle Barracks, and Picatinny Arsenal Multi-Installation RCI Project**



FORT MONMOUTH

Enhanced Use Leasing Plan

Two Parcels Will Be Leased for Development to Support Team C4ISR

Main Post Three Buildings at Barker Circle

- Scope is 112 KSF & New Pkg Garage
- Supporting 700 Personnel

Charles Wood 80 Acres Available

- Includes 84 KSF of Existing Office Space
- Scope is 1,500 KSF of Multi-Function Space
- Supporting 4,000 Personnel

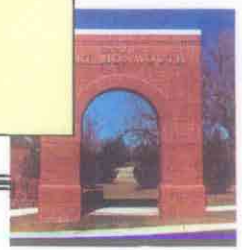
Benefits

✓ **$56M Initial In-Kind Services**

✓ **$8.3M Annually After Payback**

✓ **Technological Synergy with Private Industry through Long-term Relationship**

Allows Fort Monmouth to Satisfy Facility Related Requirements, Offsetting SRM & Military Construction Costs, and Generating Revenue for Infrastructure Renewal



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Enhanced Use Leasing Plan

Barker Circle Project Scope

✓ Modernize 112 KSF of Barracks to Office Space

Charles Wood Project Scope

✓ Construct 1,500 KSF of R&D Fac. (includes B-2525 @ 86 KSF)

In-Kind Considerations ($2M)

- 500 Car Parking Structure
- Nicodemus Gate Access Control Improvements / Reconfiguration
- Realignment of Alexander Ave
- Realignment / Reconfigure of East Gate & Hildreth Avenue

In-Kind Considerations ($54M)

- Pearl Harbor Gate Access Control
- MWR FCC/Registration Facility
- Architectural Security Fencing
- Power Sources Test Facility
- PEO/PM Complex
- Myer Center Parking Structure
- Conference Center / Parking
- Connecting Corridors - 1200 Area

Total Return to Gov't = $12.8M

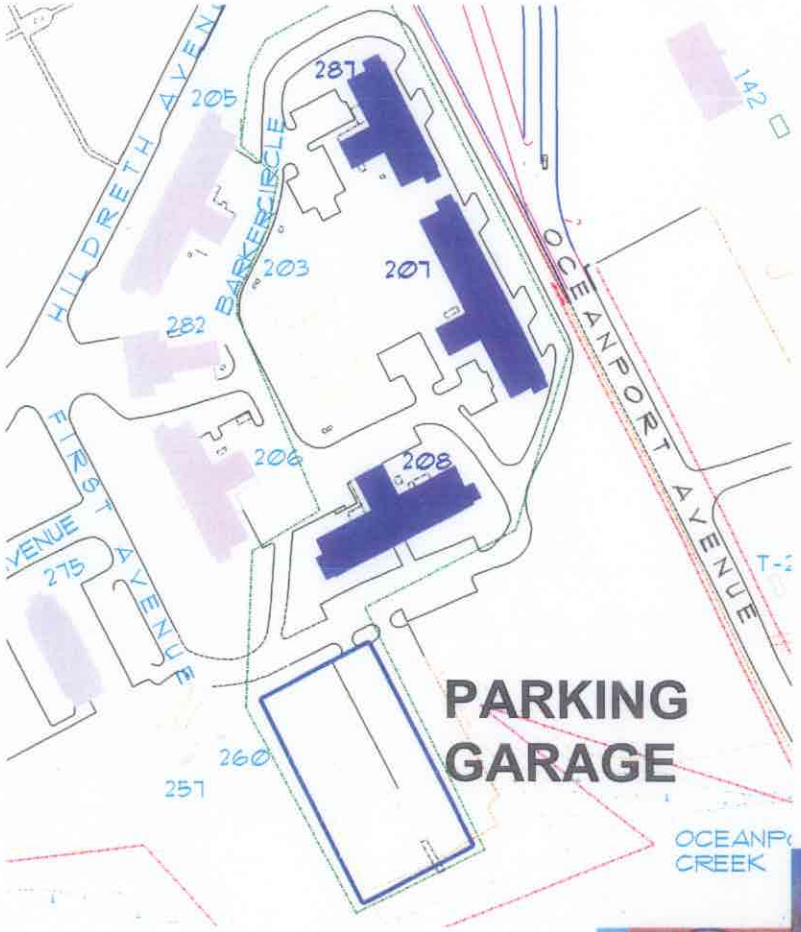
Total Return to Gov't = $334M

FORT MONMOUTH

Enhanced Use Leasing Plan
Main Post

Project Status

✓ **ACSIM Approval**	**21 Aug 03**
✓ **T10 Approved**	**15 Dec 03**
✓ **Industry Day**	**18 Feb 04**
✓ **Lease Executed:**	**Aug 04**
✓ **Income Analysis Study**	**3 Oct 03**
▪ Developers Investment	$12.4M
▪ In-Kind Consideration	$2M
▪ Annual In-Kind Benefit	$300K

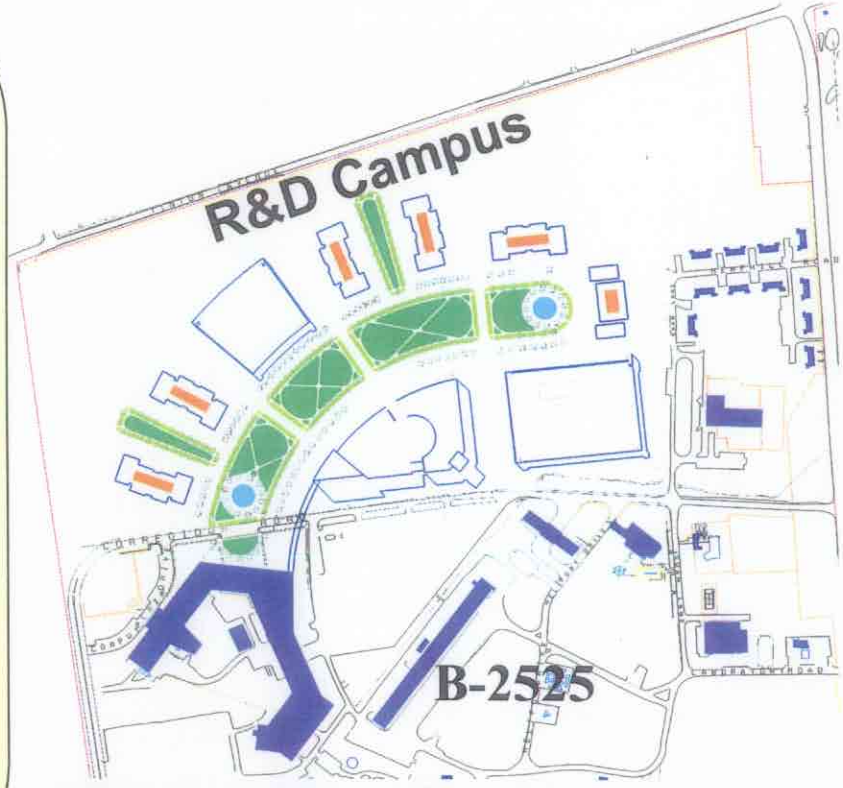


FORT MONMOUTH

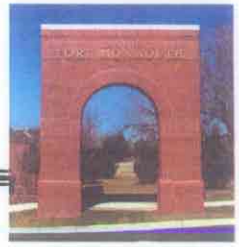
Enhanced Use Leasing Plan
Charles Wood

Project Status

✓ **ACSIM Approval**	**20 Nov 03**
✓ **T10 Approved**	**13 Jan 04**
✓ **Industry Day**	**17 Mar 04**
✓ **Lease Executed:**	**Sep 04**
✓ **Income Analysis Study**	**18 Nov 03**
▪ Developers Investment	$327M
▪ In-Kind Consideration	$54M
▪ Annual In-Kind Benefit	$8.3M



Albert J. Myer Center
CERDEC R&D Facility



FORT MONMOUTH

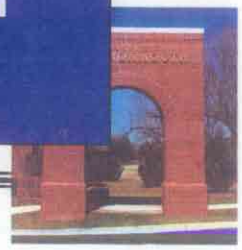
Energy Savings Initiatives

- ✓ **Replace Natural Gas-Fired Heating Equipment with Geothermal High Efficiency Ground-Source Heat Pumps (GSHP)**
- ✓ **Utilize Methane Gas to Generate Electricity**
  - Replace Purchased Electrical Source Energy
  - Providing the Majority of the Electrical Needs

Annual Cost Savings $7.57 Million

Integration of Methane and GSHP is Unique to DoD

<u>Added Benefit</u> - Recover Waste Heat from Electric Generation to Provide Approximately 1,400 Tons of Cooling



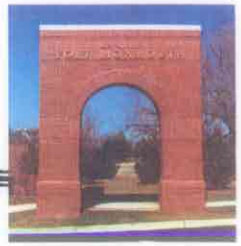
FORT MONMOUTH

Energy Savings Initiatives
Phase I

✓ **Geothermal Heating / Cooling at 13 Buildings**

- **Award Date** 8 Oct 03
- **Total Building Area** 779,474 SF
- **Developer Construction Cost** $25M
- **Construction Start** Jan 04
- **Construction Complete** Jan 06
- **Annual Energy Cost Savings** $1.9M

Geothermal System showing Well-Field



FORT MONMOUTH

Energy Savings Initiatives
Phase II

✓ **Electrical Generation Utilizing Methane Gas from Nearby Monmouth County Landfill**

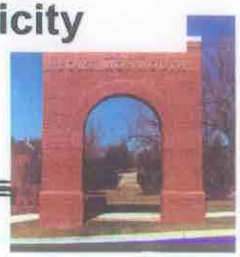
- Projected Award Date **Jul 04**
- Construction Start **Jul 04**
- Construction Complete **Jul 06**
- Developer Construction Cost **$40 M**
- Annual Energy Cost Savings **$5.7 M**

✓ **10 MW Generator Plant Size**

- Providing Energy at Low $/KW to Most of the Installation
- Sized for EUL R&D Campus Needs
- Greenhouse Gas Credits Add Value to Lease.

A Source of Pollution Becomes a Source of Renewable Energy

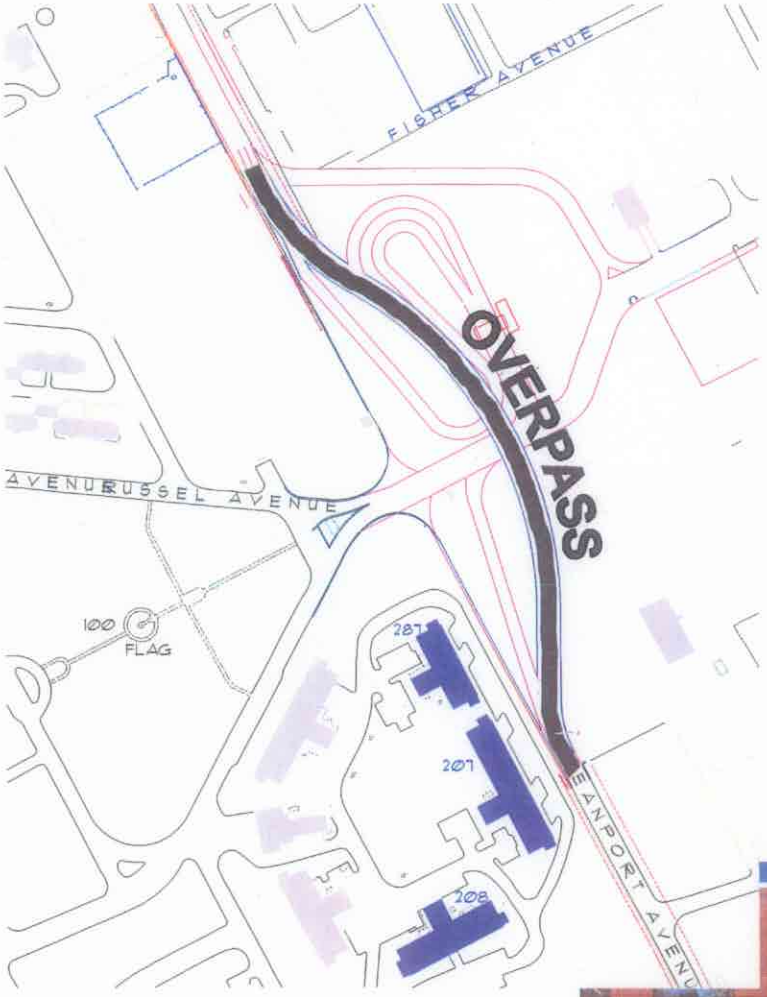
Methane Used To Generate Electricity



FORT MONMOUTH

Access Road Program
Major Transportation Improvement

- ✓ **Monmouth County Programming in New Transportation Funding Bill**
  - Project valued at $20 million
  - County plans to contribute $2-3 Million toward project to begin design
- ✓ **Monmouth County Engineer will provide 100% Design and Construction Oversight**
- ✓ **Oceanport Ave will never again be closed as a result of elevated threat conditions**
  - Main Post & 400 Area are contiguous for first time



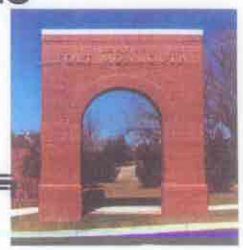
FORT MONMOUTH

Telecommunications Modernization Program

- ✓ **Install New Redundant Fiber Backbone Ring**
  - Construction Started — Oct 02
  - Complete — May 04
- ✓ **Install Redundant Fiber to Charles Wood area**
  - Construction Start — June 04
  - Complete — Dec 04
- ✓ **Provide NIPRNET/SIPRNET Equipment Modernization**
- ✓ **Funding Analysis (Prior Investment)**
  - Team C4ISR Funding — $3M
  - I3MP Funding — $5.3M
  - Congressional Funding — $3M

Network Designed to Support the Current and Future Joint C4ISR Mission

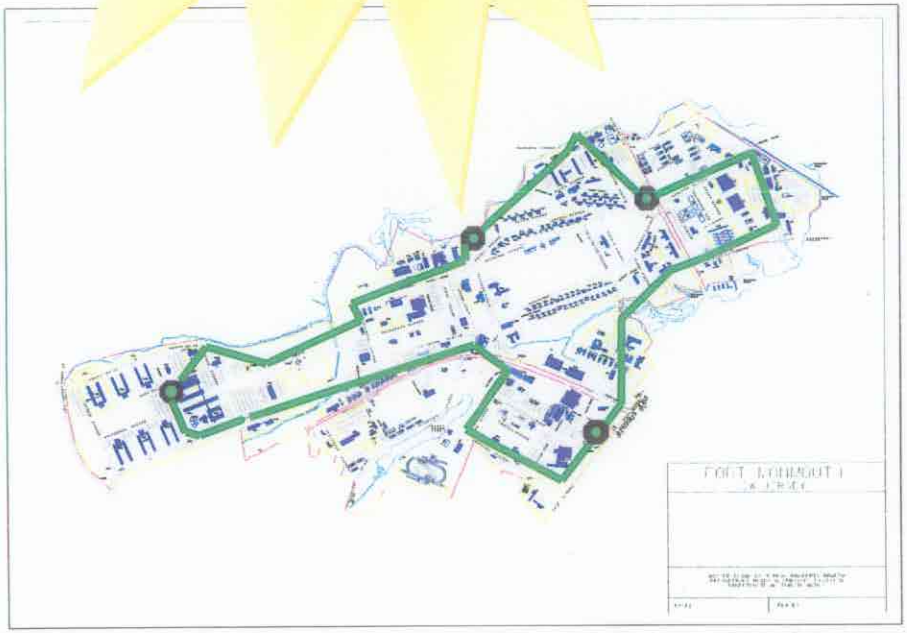
- ✓ **Develop, acquire, field, and maintain War fighter data and intelligence**
- ✓ **Homeland Station Operations Center**
- ✓ **DoD Teleport Testbed for Theater Communications Services**



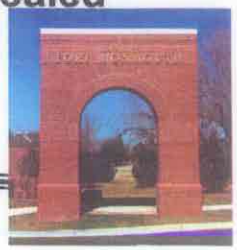
FORT MONMOUTH

Telecommunications Modernization Program

Enhanced I3MP - incorporates state-of-the-art Industry Best Practices for convergence of voice, data, and video via fiber optic cable infrastructure



- ✓Additional node to building connections at a moderate cost
- ✓Allows for 2,000% increase above current utilization at no cost and 100% increase in user backbone capacity at a moderate cost
- ✓Fort Monmouth 1st to install manholes that are lockable for physical security and water sealed for environmental conditions



FORT MONMOUTH

Capital Investment Plan

PGM	YEAR	DESCRIPTION	COST ($000)
EUL	FY05	Power Sources Test Facility	$4,150

Construct a 20,000 SF Limited Access Battery Test and Fabrication Facility. Project in FY09 FYDP, Possibly Has a Place in the FY07 PGM.

EUL	FY05	PEO/PM Complex	$32,400

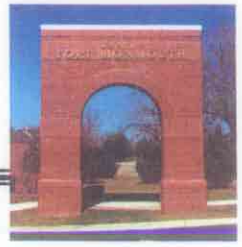
Construct a 220,000 SF Limited Access Facility to Consolidate PEO C3T and PEO IEWS From 30 Separate Facilities.

EUL	FY05	Constr Corridor Links, 1200 Area	$2,150

Provide Environmentally Enclosed Links Between Functionally Similar Buildings (1200 to 1202.)

MCA	FY08	AT/FP Upgrades PH I	$17,850

Install Vehicle Entry Gates, Install Bollards, and Upgrade Perimeter Fencing to Current Force Protection Standards. Replace Windows at Selected Buildings With Blast Resistant Glazing.



FORT MONMOUTH

Right Location to Support the Current & Future Joint C4ISR Mission

- ✓ 600,000 SF available space
- ✓ A significant amount of recently renovated space
- ✓ 160 acres of buildable land
- ✓ Environmental carrying capacity for double the current population.
- ✓ Modernized information infrastructure with extra capacity
- ✓ Close proximity to major transportation hubs – air, rail, ports and highways.
- ✓ Moderate construction/ renovation costs.
- ✓ Existing available military housing units.

QUALITATIVE CONSIDERATIONS

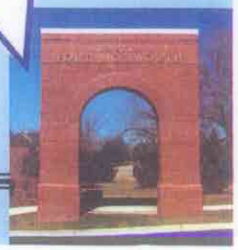
High Quality of Life

Strategic location in the Northeast

Unique technical facilities

A location rich in R&D capabilities (industry & academia)

Fort Monmouth has available land and facilities to accommodate up to **4,000** additional people with only moderate costs.



FORT MONMOUTH

TEAM C4ISR

Highly trained, technical & experienced workforce

A Ready Labor Force

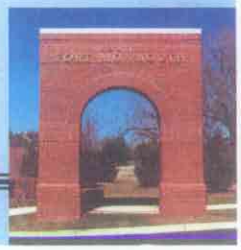
- ✓ CECOM
- ✓ CERDEC
- ✓ PEO IEWS
- ✓ PEO EIS
- ✓ PEO C3T

BN & BDE Level DA select LTCs and COLs Command the PMs

FORT MONMOUTH

Additional Tenants

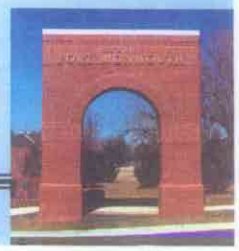
- ✓ USMA Preparatory School
- ✓ Patterson Army Health Clinic
- ✓ Veterans Administration Clinic
- ✓ Dental Clinic
- ✓ Northeast District Veterinary Command
- ✓ Defense Information Systems Agency Interoperability Standards Division
- ✓ 902nd Military Intelligence Detachment
- ✓ 754th Ordnance Company
- ✓ Central & North Jersey Recruiting Commands
- ✓ 6th Marine Motor Transport Battalion



FORT MONMOUTH

Additional Tenants (Con't)

- ✓ Regional Fire Training Center
- ✓ FBI Information Technology Center
- ✓ Federal Emergency Management Agency Region II Continuity of Operations Plan
- ✓ US Army Corps of Engineers
- ✓ Regional Corps of Engineers Office
- ✓ Criminal Investigative Command
- ✓ 956th Transport Company
- ✓ NJ National Guard
- ✓ Commissary
- ✓ AAFES
- ✓ General Services Administration



FORT MONMOUTH

USMA Preparatory School

Average graduating class 180

USMAPS Graduates include:

- ✓ 62 Generals
- ✓ Astronauts, Rhodes Scholars, West Point Professors and Department Heads
- ✓ Medal of Honor Winners
- ✓ One USMA Superintendent, One USNA Superintendent
- ✓Represents 1/6th of the USMA Incoming class

Provide focused academic, military, and physical instruction in a moral & ethical military environment to prepare, motivate, and inspire candidates for success at the United States Military Academy.

USMAPS Success Record:

- ✓ Graduation rate of over 70% at USMA
- ✓ Officer retention rate higher than USMA Class rate
- ✓ 14 First Captains, 5 of the last 6

FORT MONMOUTH

Patterson Army Health Clinic

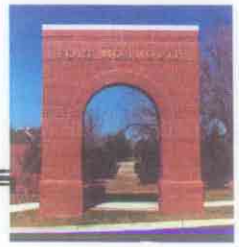
Provides and coordinates high quality health care for all of beneficiaries while promoting optimal health & maintaining readiness.

Expanded services through cooperative agreements with the New Jersey VA. Future VA Partnerships: Physical Therapy, Physical Medicine, Radiology, Lab Support, and Orthopedics.

- ✓ Provides Fort Dix with Occupational Health Services
- ✓ Health partners with the 305th Medical Group (McGuire Air Force Base)

JCAHO Accredited Facility

- ✓ **Co-located Dental Clinic**
- ✓ **Fort Monmouth Community Total: 30,636**
- ✓ **Fort Hamilton Community Total: 28,526**
- ✓ **Fort Dix Community Total: 927 civilian employees (OH only)**



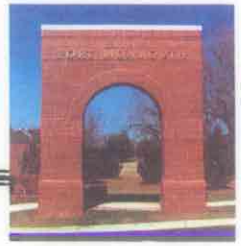
FORT MONMOUTH

Veterans Administration Clinic

This Community Based Outpatient Clinic located in the Patterson Army Health facility, delivers primary, preventative, and mental health care services to veterans living in Monmouth County.

Service 4,000 Veterans

- ✓ Fort Monmouth location provides timely access to health care for veterans living in Monmouth County
- ✓ Reduces need for elderly & disabled veterans to travel long distances
- ✓ Fort Monmouth was attractive to VA



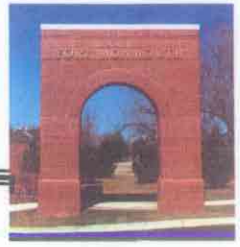
FORT MONMOUTH

Northeast District Veterinary Command

Provides comprehensive Veterinary Service to all DoD agencies in the Northeast US and the Portuguese Azores.

- ✓ Rapid, current care of military working dogs
- ✓ Care and maintenance of the US Army mules at West Point Military Academy

- ✓ Food Safety and Quality Assurance and Veterinary Medicine
- ✓ Sanitary audits are conducted at civilian food plants in the area that supply food to the DoD



FORT MONMOUTH

Defense Information Systems Agency Interoperability Standards Division

Identify, aid development of, promulgate, & catalog information technology standards and standards profiles to meet DISA product and service priorities and the needs of DoD, with emphasis on commercial and open systems standards.

✓ Responsible for communications interoperability standards used by the Army and other services in various equipment

✓ Develops operational standard, CJCS 6231, manual for employing Joint Tactical Communications

✓ Provides US representation to several Coalition C3 Board subcommittees dealing with communications and information systems interoperability.

FORT MONMOUTH

Fort Monmouth Military Intelligence Det
902nd Military Intelligence Group

Conducts counterintelligence operations throughout area of responsibility to detect, identify, neutralize and defeat foreign intelligence & international terrorism threats to US Army Forces, technologies, critical Information & infrastructure.

- ✓ Critical location near FBI Field Offices in Newark, NYC, and Philadelphia greatly enhances the Army's ability to exchange counterintelligence and international terrorism information

The Army's only Counterintelligence activity in NJ, PA, and Southern NY

FORT MONMOUTH

754th Ordnance Company (EOD)

Conduct EOD force protection operations for military & civilian authorities to defeat or mitigate conventional & unconventional (nuclear, chemical, and improvised) explosive devices in our assigned Area of responsibility. Provide recurring protection to the President of the US and other dignitaries as directed On order, deploy and conduct EOD Force Protection missions in a theater of operations.

AOR: 8 states, 82 counties, 65,737 square miles, 32,656,000 people. (NJ, eastern PA, S NY, Conn, Mass, Maine, RI & NH)

FORT MONMOUTH

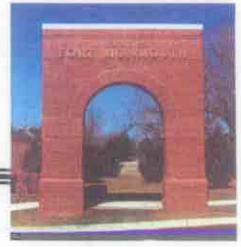
Central & North Jersey Recruiting Commands

Recruit with integrity high quality men & women to meet Army mission requirements while caring for all members of the command.

Fort Monmouth is critical to meeting high recruiting goal of 500-1000 new enlisted soldiers yearly.

U.S.ARMY

- ✓ Displaying military life-style is invaluable in placing Delayed Entry Program Recruits
- ✓ Use of installation's facilities greatly assists in meeting recruiting goals
- ✓ Office space on Fort Monmouth saves the Army thousands of dollars per month

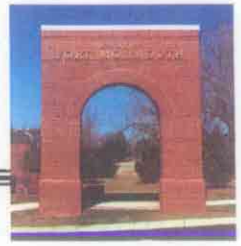


FORT MONMOUTH

6th Marine Motor Transportation Battalion

Fort Monmouth supports 300 Marines on active duty and reserve in adjacent Marine Reserve facility. Marines provide direct & general support medium and heavy lift transportation during sustainment operations.

Capabilities:
Cargo/Passengers, Bulk Liquids, Recovery, Convoy Control/Security, and Proven Combat Capabilities during Operation Iraq Freedom



FORT MONMOUTH

Fort Monmouth Regional Fire Training Center

The only Army Fire Training Center

- ✓ Military, federal, state and local firefighters train in live fire fighting, ventilation, search & rescue practices, ground ladders, pump and aerial operations; and classroom lectures
- ✓ Accreditation from the National Professional Qualification Board

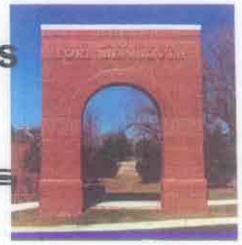
FORT MONMOUTH

FBI Information Technology Center

To protect & defend the US against terrorism & foreign intelligence threats, to uphold & enforce the criminal laws of the US and to provide leadership and criminal justice services to federal, state, municipal, and international agencies and partners.

FBI Priorities

- ✓ **Support Federal, State, County, Municipal & International Partners**
- ✓ **Combat cyber-based attacks & high technology crimes**
- ✓ **Combat criminal organizations & enterprises**
- ✓ **Combat against Terrorists Attacks**
- ✓ **Foreign Intelligence Operations & Espionage**
- ✓ **Public corruption at all levels**
- ✓ **Protect Civil Rights**
- ✓ **Combat major white-collar crimes**
- ✓ **Combat violent crime**

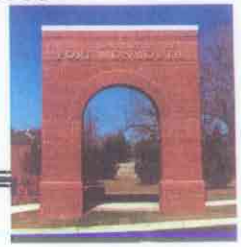


FORT MONMOUTH

FEMA Region II Continuity of Operations Plan (COOP)

An Alternate Operations Facility serving FEMA Region II in the following capacities: Disaster Field Office, Federal Radiological Emergency Response Center (NJ), Regional Operations Center, COOP Site for the Emergency Relocation Group.

- ✓ The only FEMA COOP in Region II
- ✓ Table-Top and Full scale Exercises with the DoD community, local and state communities, and 1st Responders



FORT MONMOUTH

Reserve Partnerships

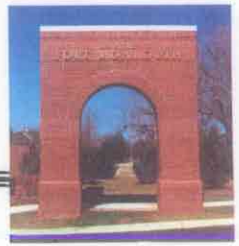
"GOLDEN KASTLE"

Troop Construction Program

FORT MONMOUTH

Reserve Partnerships

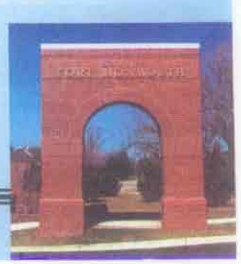
- ✓ **Golden Kastle**
  - Reservists from the 854th Engineer Combat Battalion (Heavy), Kingston, NY, & the 306th Engineer Company (Combat Heavy), Amityville, Long Island, NY, completed interior & exterior construction work on post during their two-week Annual Training & IDT weekends this year. This provides real world training and the installation gets projects completed at a great cost savings
- ✓ **6th Marine Motor Transport Battalion**
  - Fort Monmouth support includes: deployments, TMP activities, GSA, redistribution, housing & post facilities
- ✓ **Fire-Firefighting AT - Some of these units are now serving in Afghanistan and Iraq**
  - 369th Engineer Platoon, Norrisontown, PA, 487th Engineer Detachment (FF), Washington, KA, 468th Engineer Detachment (FF), Boston, MA
  - 1157th Colorado Army National Guard, Colorado Springs, CO



FORT MONMOUTH

Regional Support

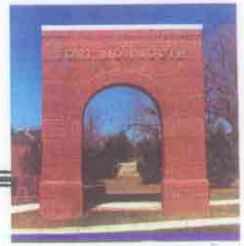
- ✓ **Joint Service Support**
- ✓ **Regional Environmental Services**
- ✓ **Regional Hub NIPRNET & SIPRNET Node Site**



FORT MONMOUTH

Joint Service Support

- ✓ **Soldier Support: Army, Navy, Marines, & Reserve Component units**
  - **Commissary & PX**
  - **Health Care**
  - **Housing**
  - **MWR Programs**
  - **Casualty Assistance - Ft. Dix**
- ✓ **Services provided:**
  - **Architect & Engineer Design & Construction Services**
  - **Environmental Services**
  - **Base Operations Contract Services**



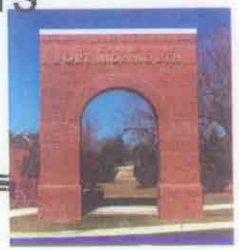
FORT MONMOUTH

Regional Environmental Services

Multi-State Certified Environmental Laboratory

Certifications include:

- ✓ New Jersey Department of Environmental Protection
- ✓ Pennsylvania Department of Environmental Protection
- ✓ New York State Department of Health
- ✓ State of Maryland Department of Health and Mental Hygiene
- ✓ American Industrial Hygiene Association
- ✓ Army Corps of Engineers



FORT MONMOUTH

Regional Environmental Services

Regional Customers

- ✓ Naval Air Engineering Station, Lakehurst
- ✓ Naval Weapons Station Earle
- ✓ McGuire Air Force Base
- ✓ US Army Fort Dix
- ✓ US Army 77th RSC Engineers
- ✓ US Army Corps of Engineers, New York District
- ✓ NJ Army National Guard
- ✓ US Marines Reserve Center, Red Bank, NJ
- ✓ US Coast Guard, Sandy Hook, NJ

Laboratory Services

- ✓ Drinking Water, Wastewater, Surface Water, Groundwater, Soils, Sediments, Solid & Hazardous Wastes

Recycling Services

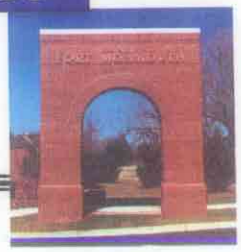
- ✓ Used Oils, Oil Filters, Oil Spill Debris, Antifreeze, Paints, Batteries, Fluorescent Lamps

Waste Disposal Services

- ✓ Hazardous & Non-Hazardous Wastes

Tank Management Services

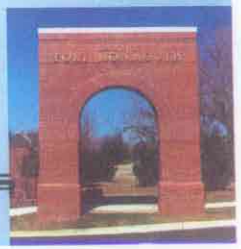
- ✓ Underground & Above ground Tanks



FORT MONMOUTH

Community Support

- ✓Mutual Aid First Responder
  - Homeland Security
  - Fire Fighter Training and Support
- ✓Two Rivers Council of Mayors
- ✓Earle Naval Weapons Station
- ✓Community Relations Programs



FORT MONMOUTH

Fire & Emergency Services Department

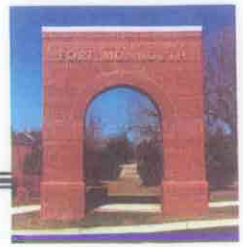
✓Respond to Mutual Aid Missions

✓Mid-Monmouth Mutual Agreement with 29 surrounding communities

- Fire Suppression
- Rapid Intervention Team
- Hazardous Materials Response
- Technical Rescues
- Emergency Medical Services
- NJ State Forest Fire Service Division B -anywhere in state
- Monmouth County Sheriff
- Homeland Security

Fort Monmouth hosts the Northeast Regional Hazardous Material Team for drilling purposes

Consistently one of the Best DoD Fire Depts



FORT MONMOUTH

Force Protection/ Installation Security

- National Crime Information Center (NCIC) 2000
- Centralized Operations Police Suite (COPS)
- New Simulated Firearms Training System (FATS)
- Closed Circuit Television System (CCTV)

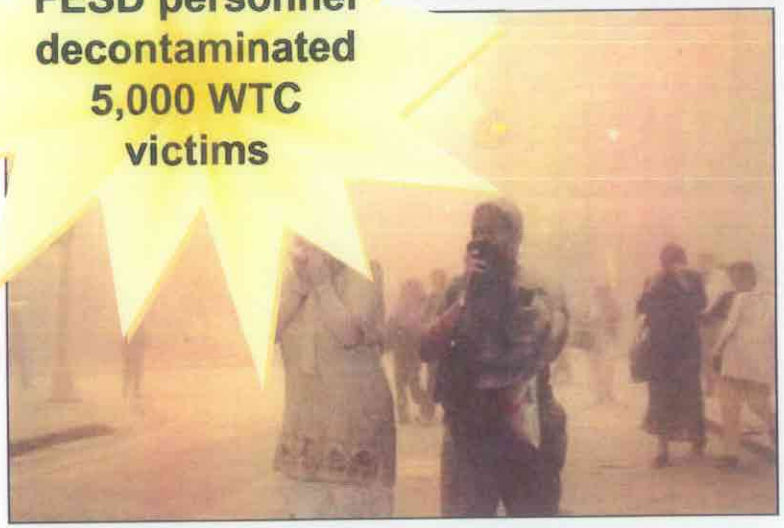
✓ **Upgraded Law Enforcement equipment includes:**

- Joint Automated Booking System (JABS) Secure Connectivity to the Integrated Automated Fingerprint Identification System (IAFIS)

FORT MONMOUTH

Support After 9/11

FESD personnel decontaminated 5,000 WTC victims



FORT MONMOUTH

Well-Being Programs

Fitness Center

DA Model Site for Recreation

Pool

Nautilus Room

1st DoD Recreation Program to receive CAPRA Accreditation 2003

Auto Crafts Shop

DA 'Premiere Site' Accredited Child Care Center

FORT MONMOUTH

Well-Being Programs

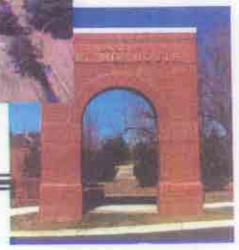
Marina

DA Model Site for Recreation

Gibbs Hall

Mulligan's Restaurant

Suneagles Golf Course



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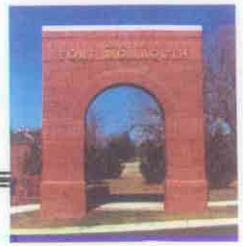
Mission Facilities

Myer Center

Mallette Hall

McAfee Center



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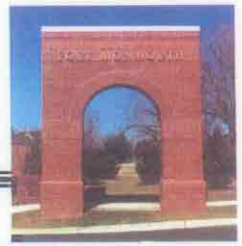
Unique Facilities

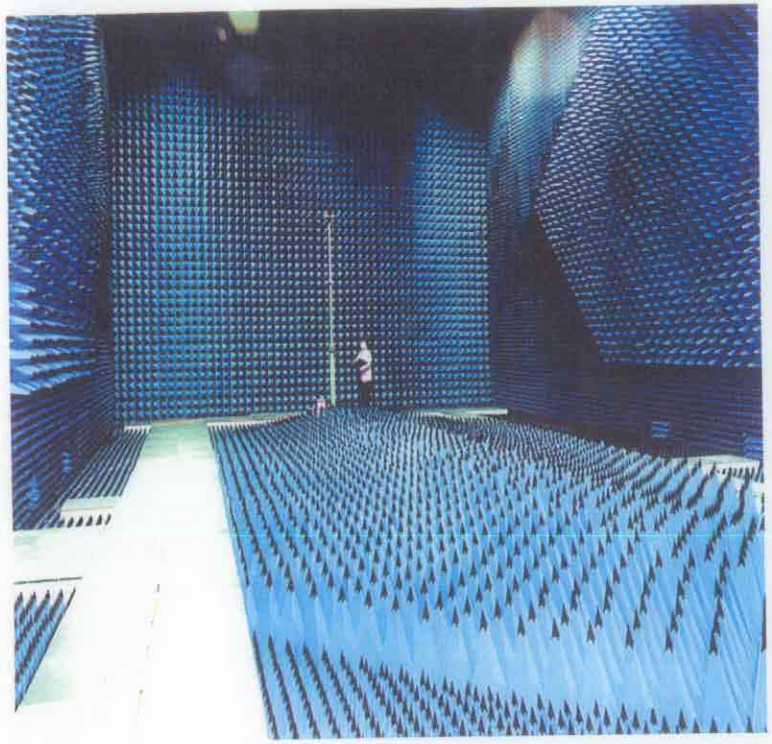
Satellite Systems & Control

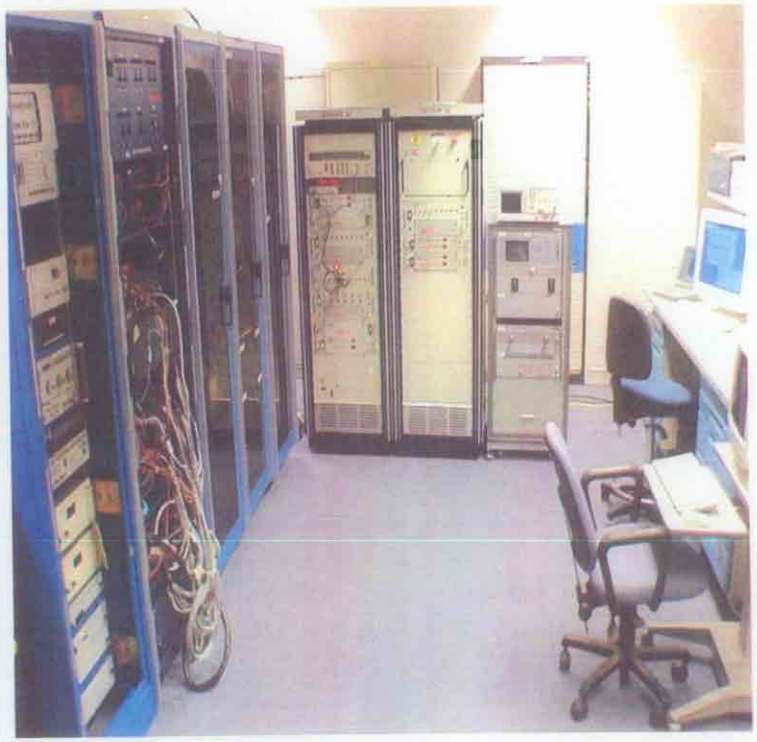
DoD Teleport Testbed



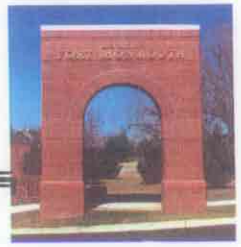
FORT MONMOUTH

Unique Facilities





Anechoic Chamber Facility



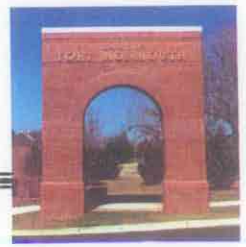
FORT MONMOUTH

Unique Facilities

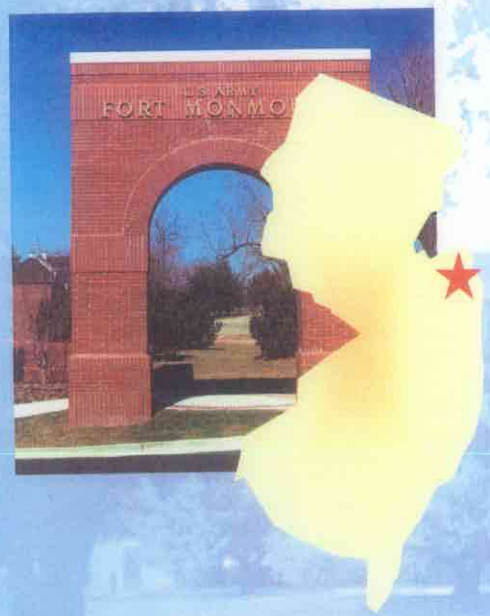
This testing center is equipped with communications systems & software deployed to warfighters around the globe. Software engineers here simulate communications problems reported from the field, develop fixes, & test solutions.

Software engineers provide software maintenance support for fielded systems, & participate in interoperability testing to ensure that fielded systems can communicate with each other.

Software Engineering Center Annex Tactical Communications



Conclusion



- ✓ Efficiently Operated, Multi-Purpose Installation Supporting a Joint, Regional Community
- ✓ Transformation Plan will reduce operating costs and create opportunity for expansion
- ✓ Right Location to Support the Current & Future Joint C4ISR Mission
- ✓ Award Winning, DA Recognized Well-Being MWR Programs
- ✓ Economic Engine for NJ, Intellectual Capital Base

Providing world class support to Team C4ISR, as well as to a diverse group of unique military & governmental tenants and regional customers… now and into the future…

"How could we be more Joint?"

- ✓ BRAC 1995 Joint Cross Service Working Group
- ✓ Defense Science Board 1997
- ✓ Defense Science Board 2003

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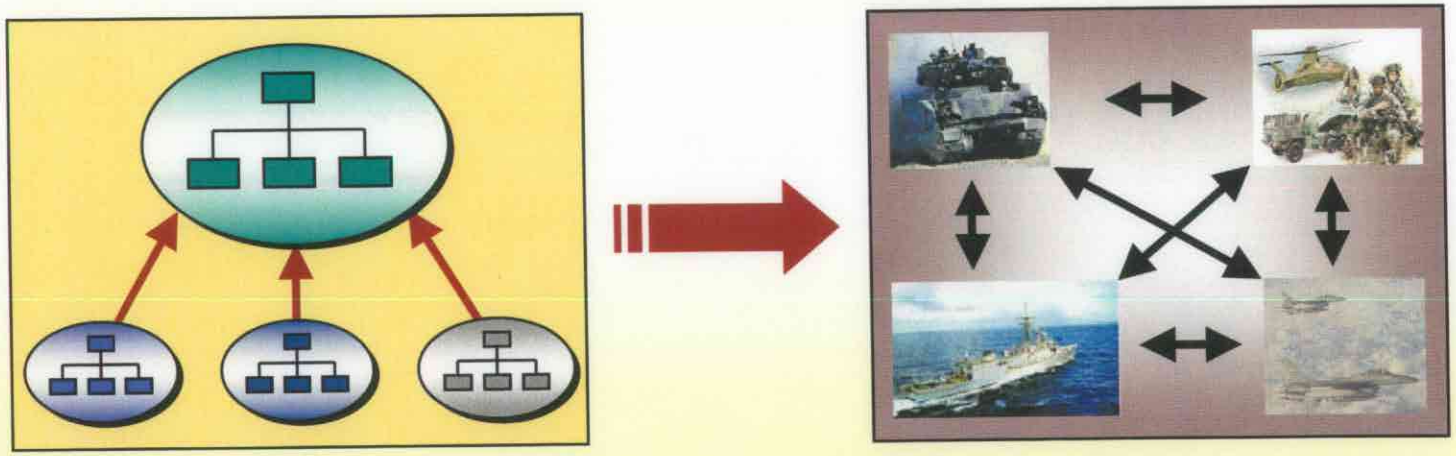
The future of C4ISR . . .

An organizational alignment to achieve **Joint C4ISR** interoperability and connectivity.

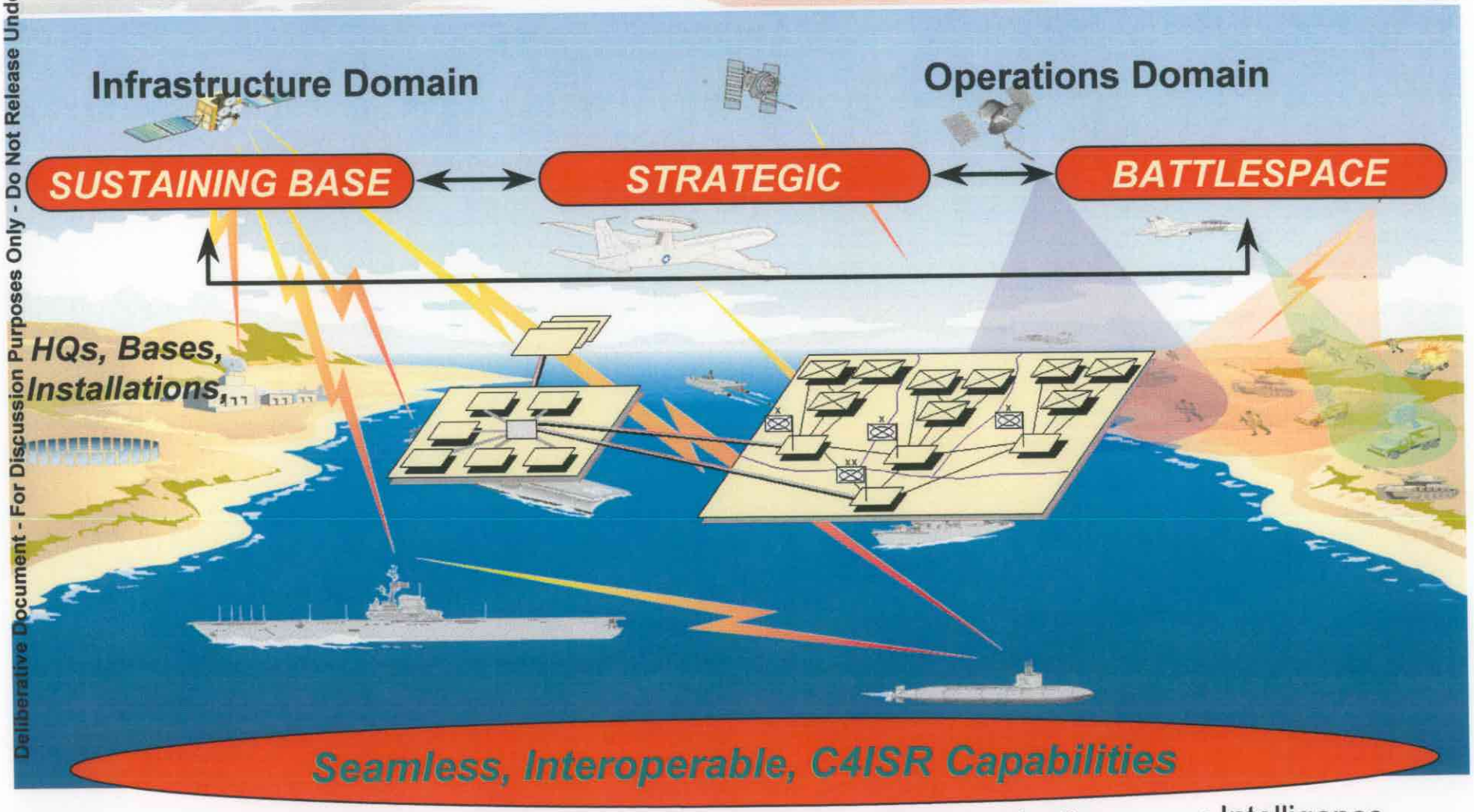


The Objective-An Obtainable Goal

Dual Hat Service System Commands under JFCOM & Services

Joint Network Centric Operations

INTEGRATION FROM SUSTAINING BASE TO BATTLESPACE



- Defense Communications
- Combat Support Systems
- Installation Info-structure
- Software
- Sensors
- Communications
- Battle Mgt C2
- Intelligence
- Electronic Combat

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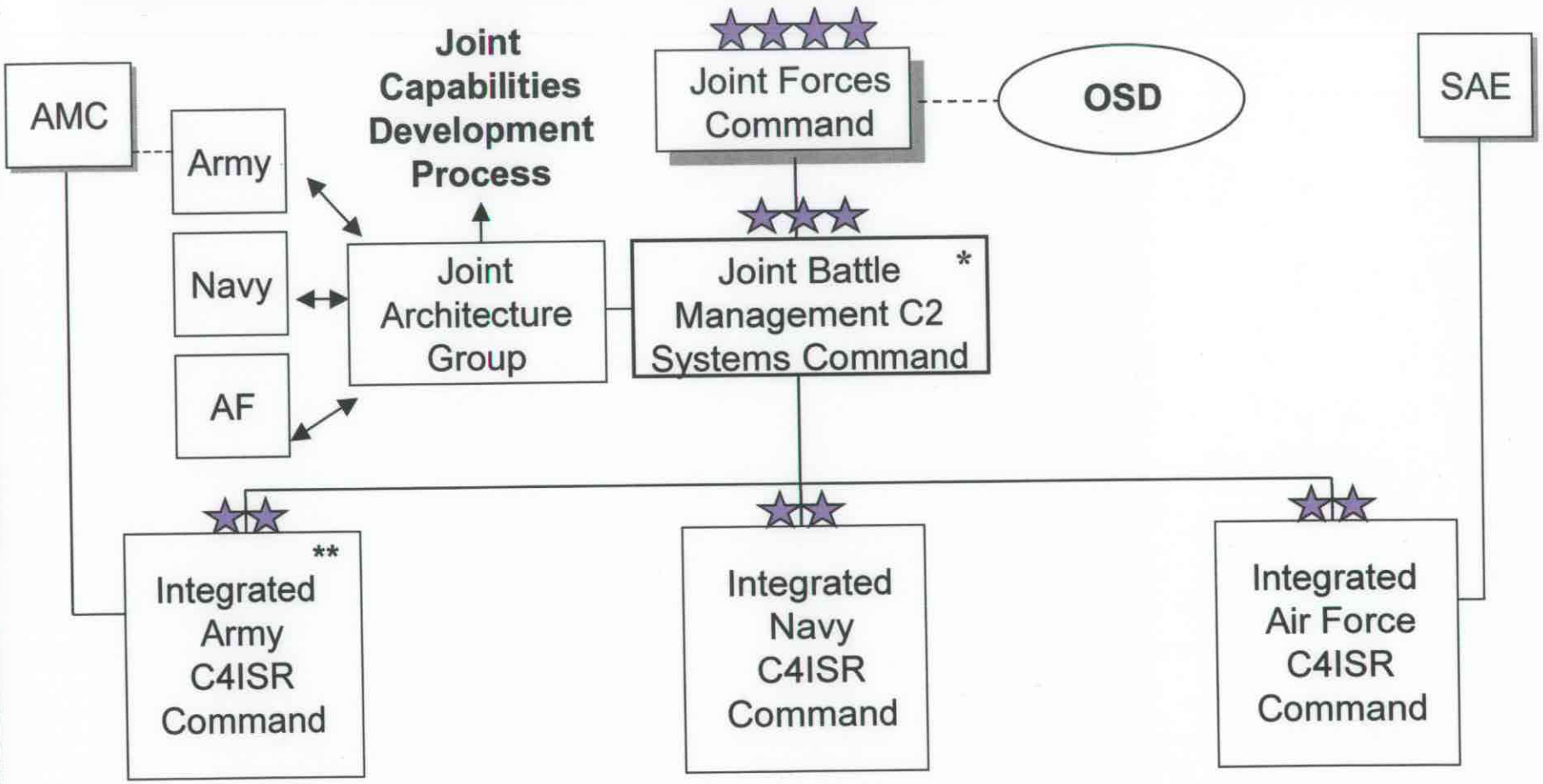
PROPOSED JOINT C4ISR ORGANIZATION



* Jointly Staffed Headquarters, Rotating Leadership

** PEO C3T, PEO IEWS, PEO EIS, CECOM

Integrated C4ISR Commands report to their service and to JFCOM

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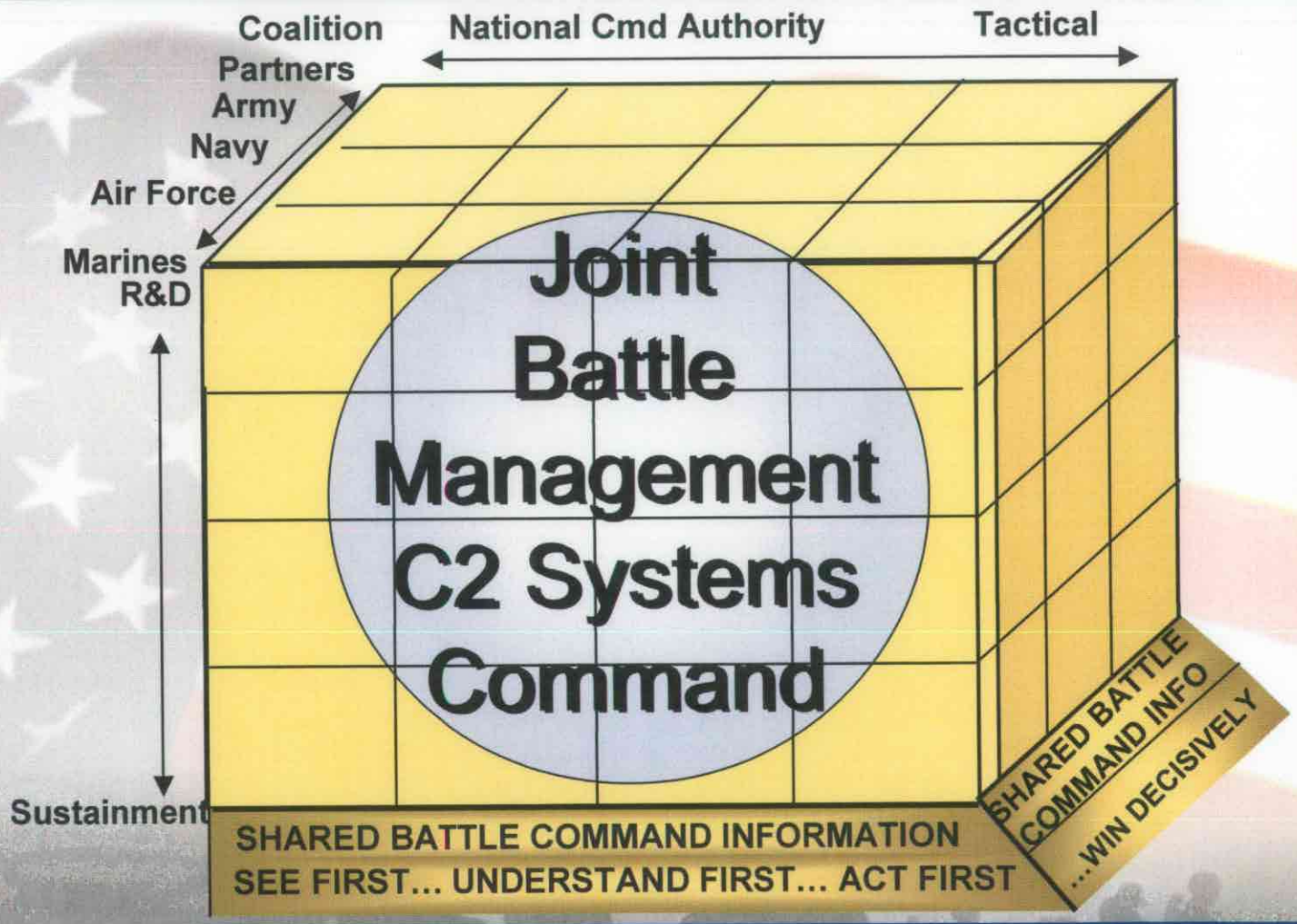
ACHIEVES JOINT INTEROPERABILITY & CONNECTIVITY



2000

Stovepipe Systems

2008

Interconnected Stovepipes

2015

InfoSphere

Accelerates Transformation

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Summary

- ✓ Network Centric Warfare (NCW) is critical to DoD Transformation and the Army. (A new American way of war has emerged . . . Network Centric Operations.)
- ✓ TEAM C4ISR at Fort Monmouth is the "center of gravity" and delivering NCW for the Current Force and designing / building the Future Force capabilities.
- ✓ The intellectual capital of TEAM C4ISR located at Fort Monmouth is our most important attribute in concert with surrounding industry and academia.
- ✓ We provide Warfighters with critical capabilities in a highly technical, rapidly changing environment.
- ✓ Fort Monmouth and Tobyhanna Army Depot are efficiently operated, multi-purpose installations serving regional and Joint communities.
- ✓ Existing infrastructure is postured to accommodate expanded Joint C4ISR missions and personnel.

TEAM C4ISR . . . a world class TEAM, at world class facilities with a world class commitment to excellence.