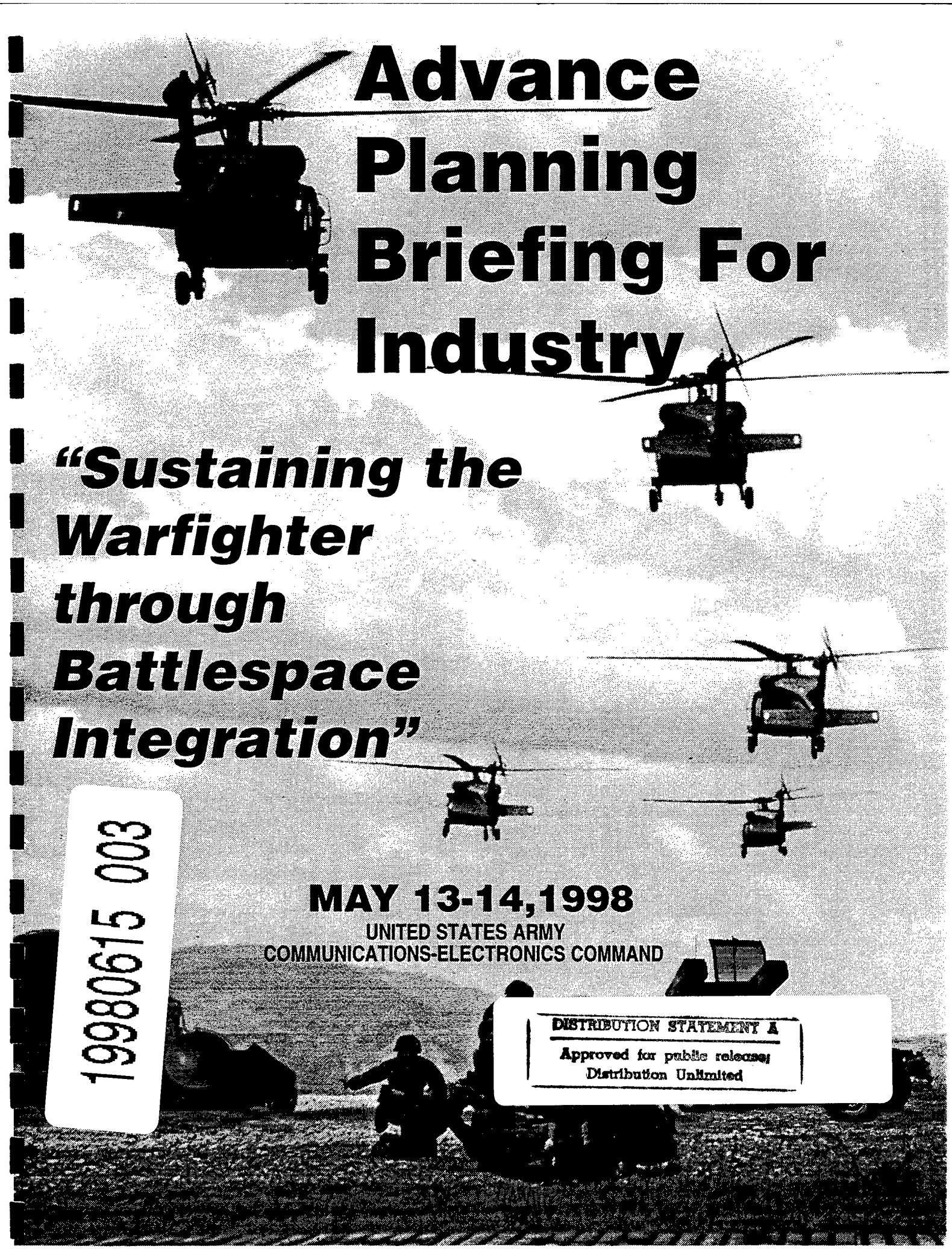


Advance Planning Briefing For Industry

"Sustaining the Warfighter through Battlespace Integration"

MAY 13-14,1998

UNITED STATES ARMY
COMMUNICATIONS-ELECTRONICS COMMAND

19980615 003

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NOTICE

This publication contains the briefings presented during this Advance Planning Briefing for Industry (APBI). Following the APBI, you may obtain a Proceedings Book for a minimal fee by contacting the Defense Technical Information Center (DTIC). The telephone number is: (800) 225-3842.

We hope that the above publication proves beneficial to your long-range planning efforts. If you have any additional questions and/or suggestions, please contact the Program Analysis and Evaluation Directorate, AMSEL-PE-OD, ATTN: Denise Ellison, (732) 532-8674.

Advanced Planning Briefing for Industry (APBI) May 13-14 1998

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DEPARTMENT OF THE ARMY

HEADQUARTERS, U.S. ARMY COMMUNICATIONS-ELECTRONICS COMMAND

AND FORT MONMOUTH

FORT MONMOUTH, NEW JERSEY 07703-5000

REPLY TO
ATTENTION OF

Office of the Commanding General

Ladies and Gentlemen:

On behalf of the Army C4IEW and Sensors Team, I am pleased to present these proceedings of the 1998 Advance Planning Briefing for Industry (APBI) entitled "Sustaining the Warfighter through Battlespace Integration." The objective of this publication is to provide industry with a comprehensive overview of our research and development programs, sustainment efforts and corresponding contract opportunities available to industry within the next five years.

We must strengthen our government and industry partnering so we may continue to get new technology to the soldier. The results of our partnering will be a greater understanding of each other's needs, and thus, superior equipment in the hands of our 21st Century Warfighter.

I welcome your participation in our APBI program.

Sincerely,

Gerard P. Brohm
Major General, U.S. Army
Commanding

DISCLAIMER

The use of trade names in this report does not constitute official endorsement of any products. This report may not be cited for purpose of advertisement.

The information provided is accurate as of the time of publication, and may be subject to change.

THE OVERALL CLASSIFICATION OF THIS PUBLICATION IS UNCLASSIFIED

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MG GERARD P. BROHM

COMMANDING GENERAL
CECOM

NOTES

SESSION I

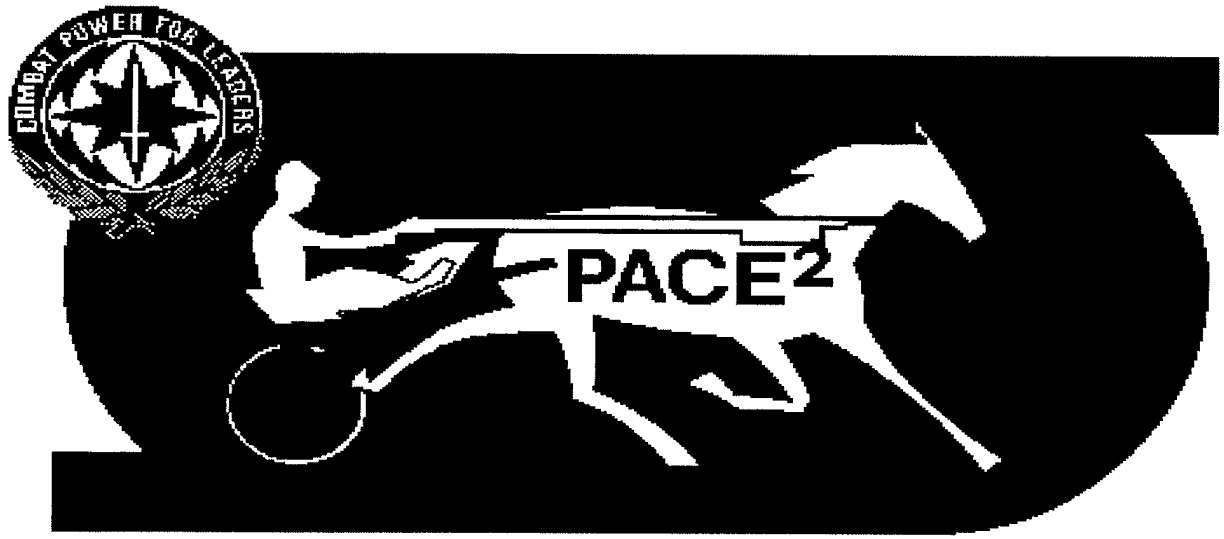
GUEST SPEAKER

COLONEL WILLIAM S. RODAKOWSKI

DIRECTOR OF COMBAT DEVELOPMENTS
U.S. ARMY SIGNAL CENTER & FORT GORDON

NOTES

CECOM's PAPERLESS ACQUISITION PROCESS



MR. RIC KELEMEN
DEPUTY DIRECTOR
CECOM ACQUISITION CENTER

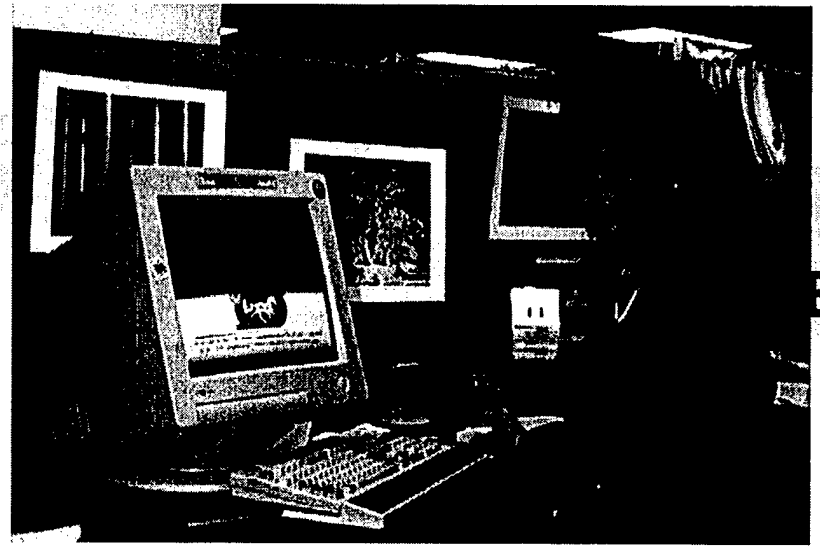
UNCLASSIFIED

PAPERLESS ACQUISITION APPROACH FOCUSED ON...

Web based Technology

Open Architecture

Interoperability

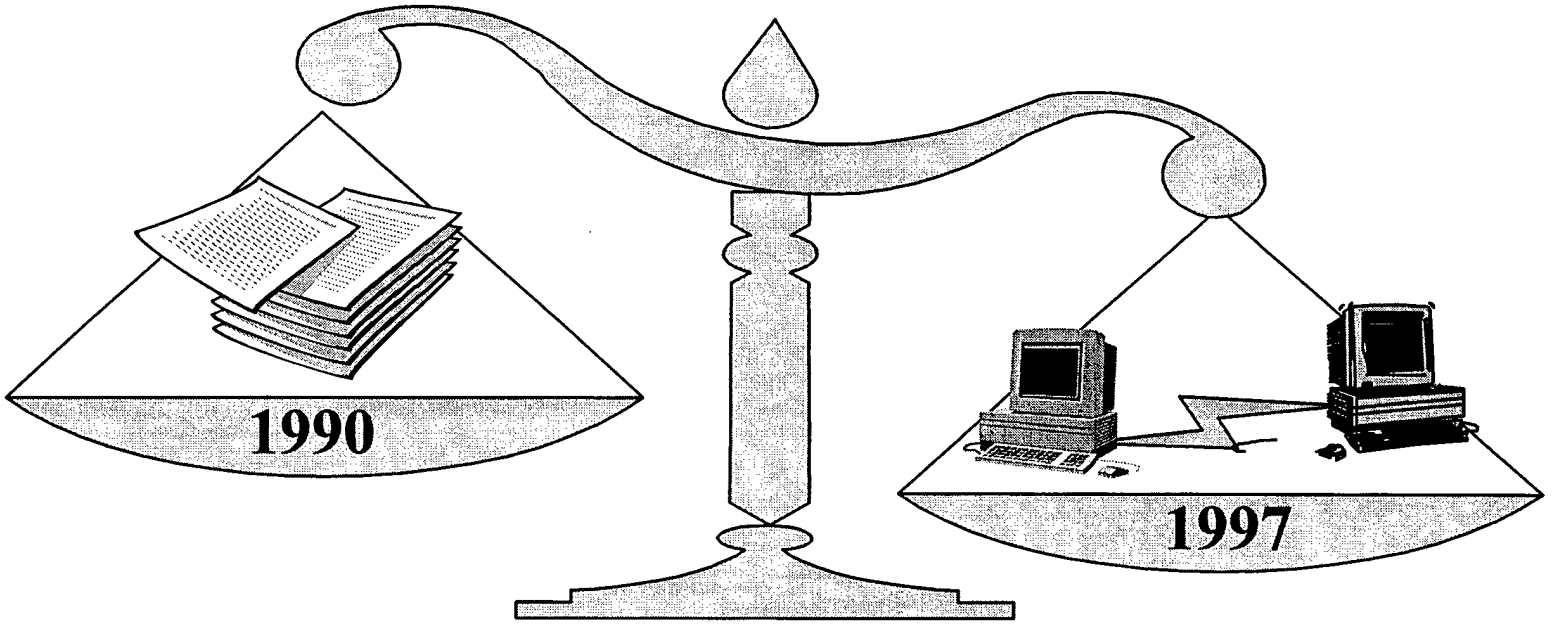


Commercial Based Applications

Ease of use for Acquisition and Industry Partners

Efficient and practical Business Processes

WHERE WE WERE...WHERE WE ARE



$3.4B	→	**$4.2B**
9,450 ACTIONS	→	**10,975 ACTIONS**
CYCLE TIME 300+ DAYS	←	**CYCLE TIME 129 DAYS**

PROCESS IMPROVEMENTS TOWARD PAPERLESS ACQUISITIONS

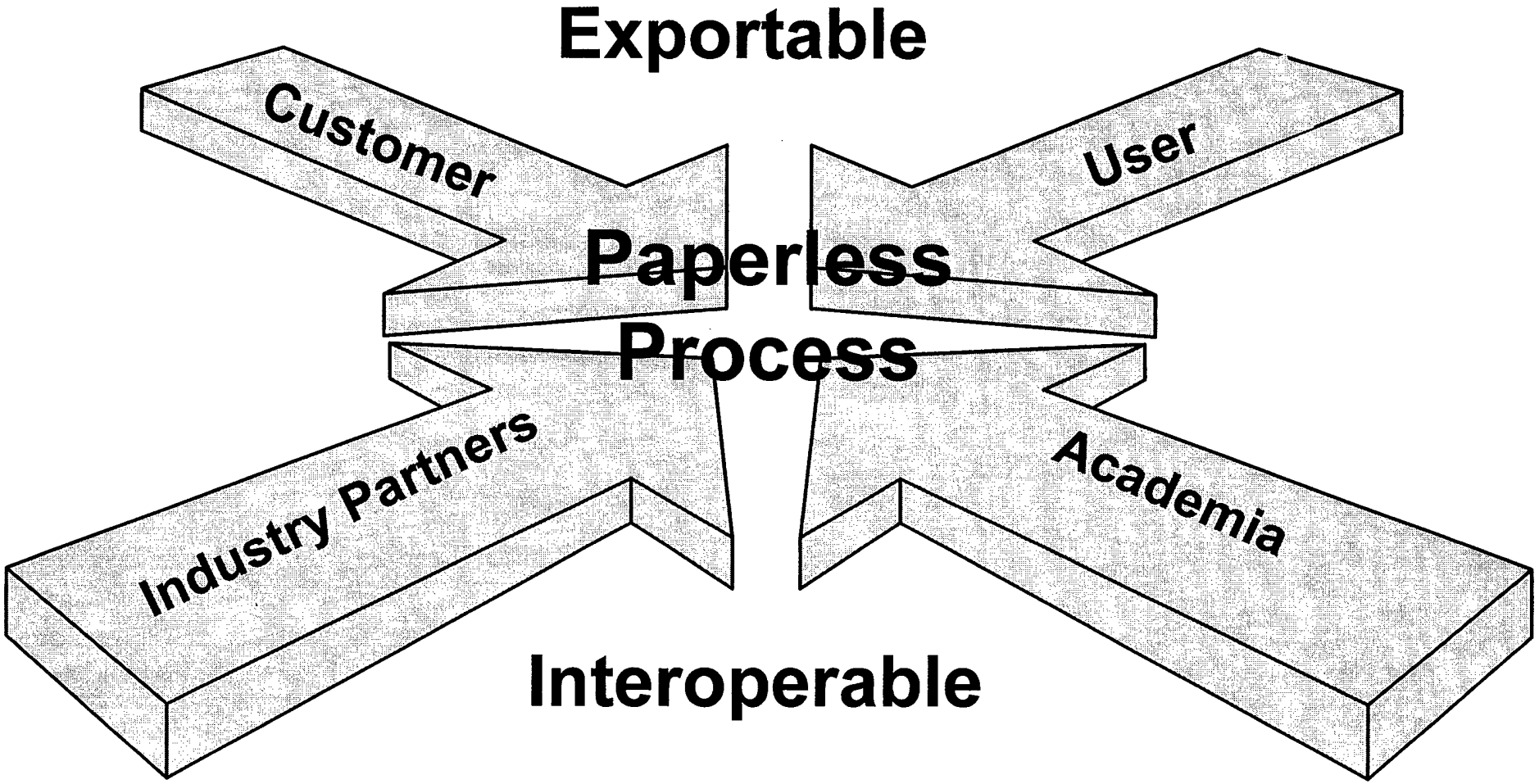
1994

Electronic Bulletin Board
For all solicitations
8000 users
No on-line viewing capability
Slow to download
No centralized system of feedback for updates

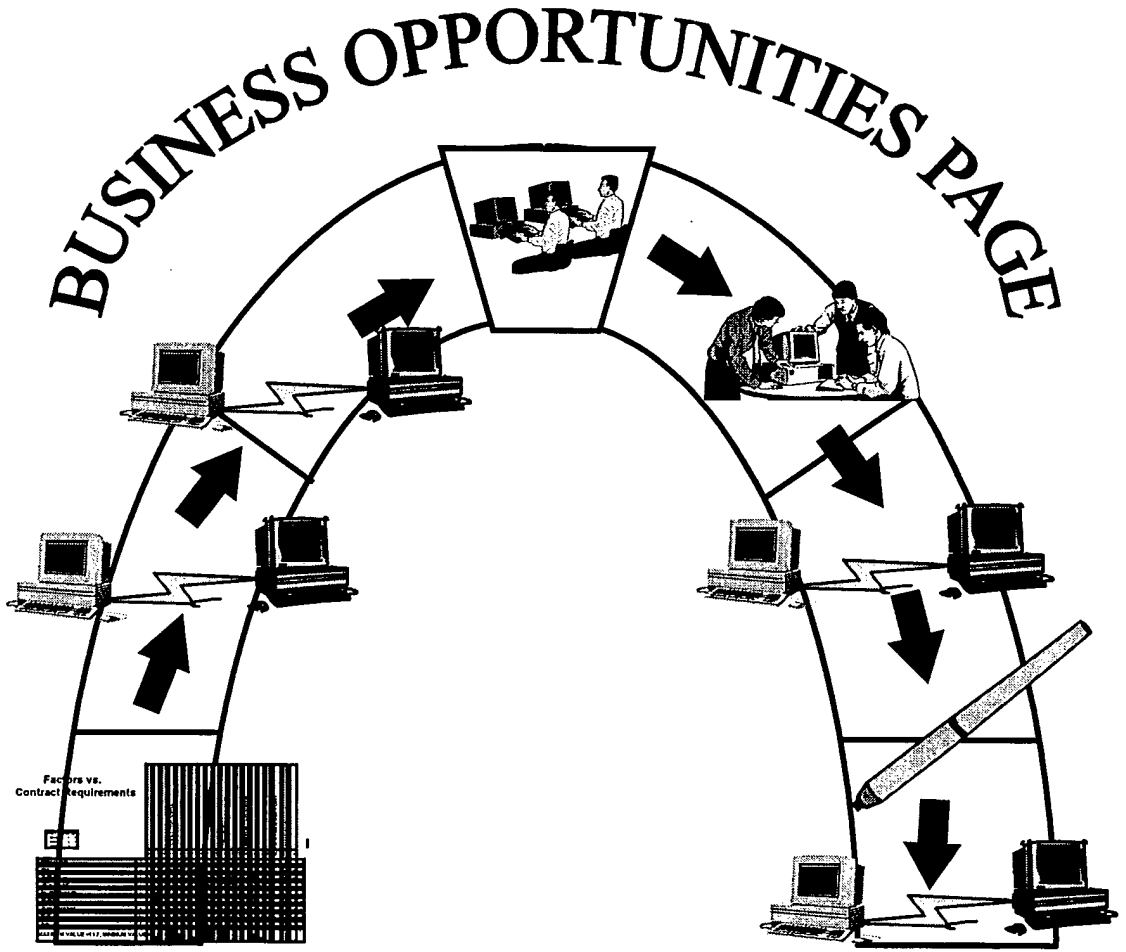
Today

Captures entire acquisition process
Business Opportunity Page for all solicitations
Plus:
Proposal receipt
items-for-negotiation
Ease of use
Interoperable

TEAMING--KEY TO SUCCESS



TOTAL OPERATING PAPERLESS SYSTEM



JOINT COMPUTER AIDED LOGISTICS SYSTEM

TOTAL OPERATING PAPERLESS SYSTEM (TOPS)
THE ACQUISITION PROCESS

Evaluators Review the Proposals On-line

Key Source Selection Personnel View Results

Offerors Submit Proposals Electronically

IFNs And Model Contract Transmitted Electronically

Solicitation Information On the World Wide Web

Contract Electrically Signed & Distributed

1-888-414-2677

Quality Function Deployment (QFD) Defines The Best Value Discriminators

Electronic Submittal Of Data Items And E-Mail

Netscape - [CECOM Business Opp'ty Homepage]

File Edit View Go Bookmarks Options Directory Window Help

Back Forward Home Reload Images Open Print Find Stop

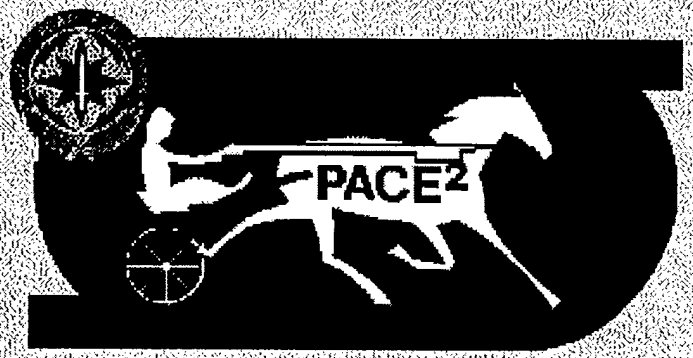
Location: http://acbop.monmouth.army.mil/

What's New? What's Cool? Destinations Net Search People Software

CECOM ACQUISITION CENTER

WORLD WIDE

BUSINESS OPPORTUNITY PAGE



Welcome to the U.S. Army Communication Electronics Command (CECOM) Acquisition Center's Business Opportunities page.

http://acbop.monmouth.army.mil/

Applet ticker_andyhosk running

OUR WEB SITE

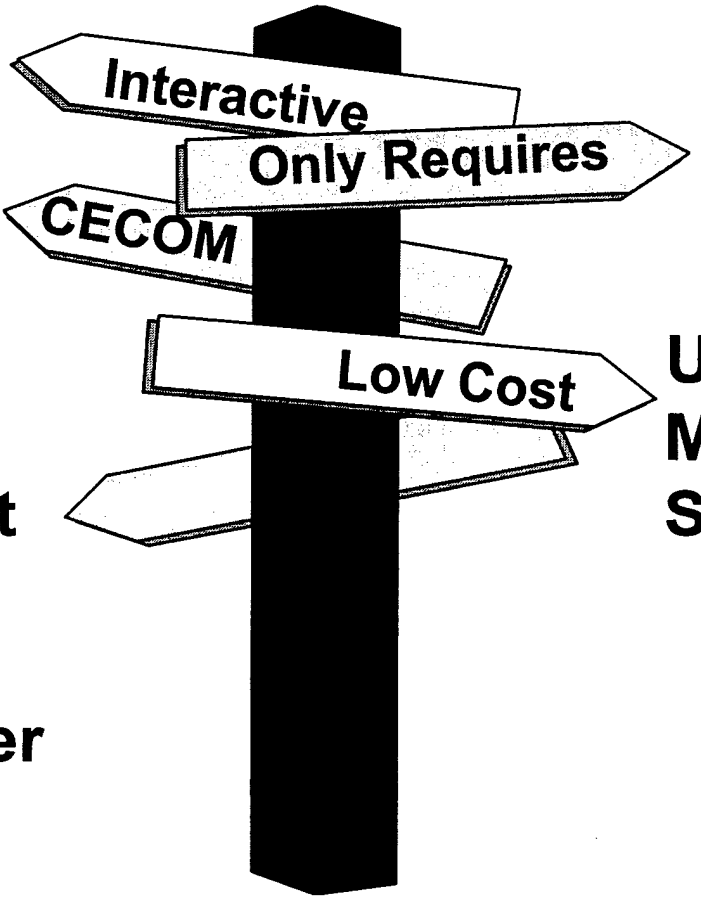
http://acbop.monmouth.army.mil

BUSINESS OPPORTUNITY PAGE

Procuring Organization in Control

Leverages Off Commercial Internet Designs:

- **Lotus Notes**
- **Domino Server**



Internet Access & Internet Browser

Upgrade, Maintenance & Support

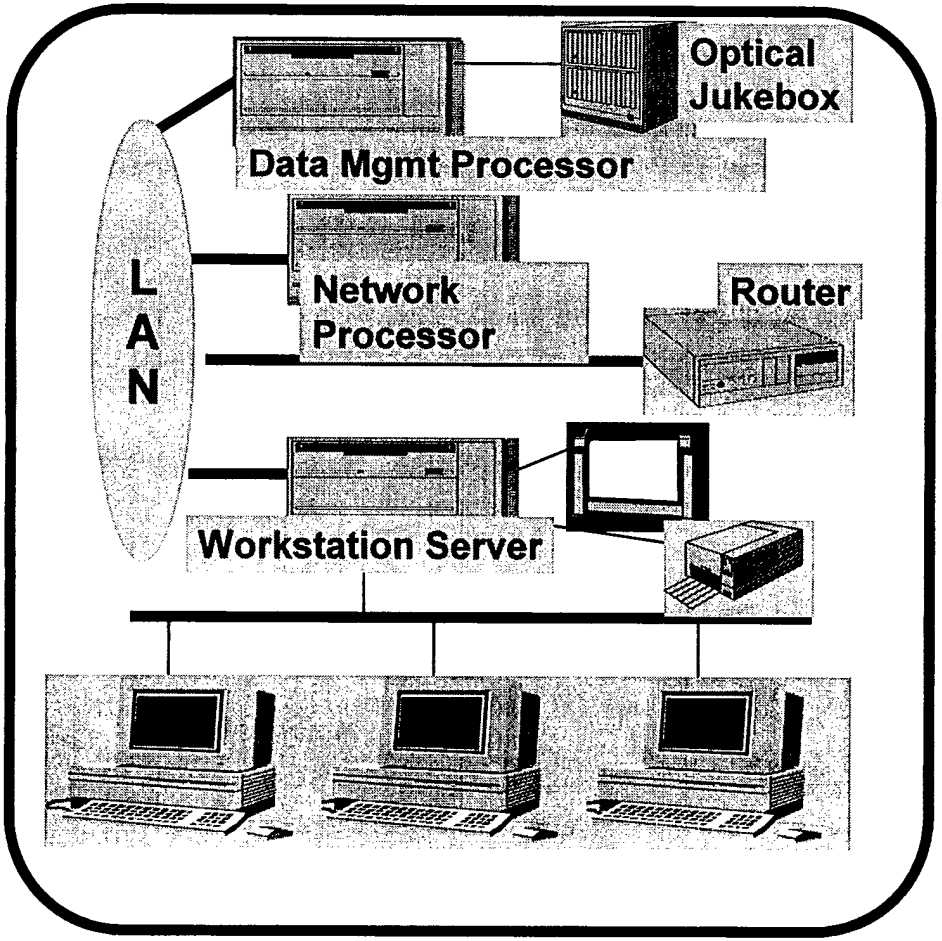
Allows System Improvement as Internet Capabilities Increase

BUSINESS OPPORTUNITY PAGE

- **Creates a Virtual Contracting Office Environment**
- **Location Independent-Can Operate Anywhere**
- **Real-time Communication Exchange**
- **On-line Viewing of Documents**
- **Increased Competition through Expanded Supplier Base**

Single, Low Cost Interface with Industry-Adopted by State Department for 200 plus Acquisition Offices, world wide, at cost of $30k

BUSINESS OPPORTUNITY PAGE



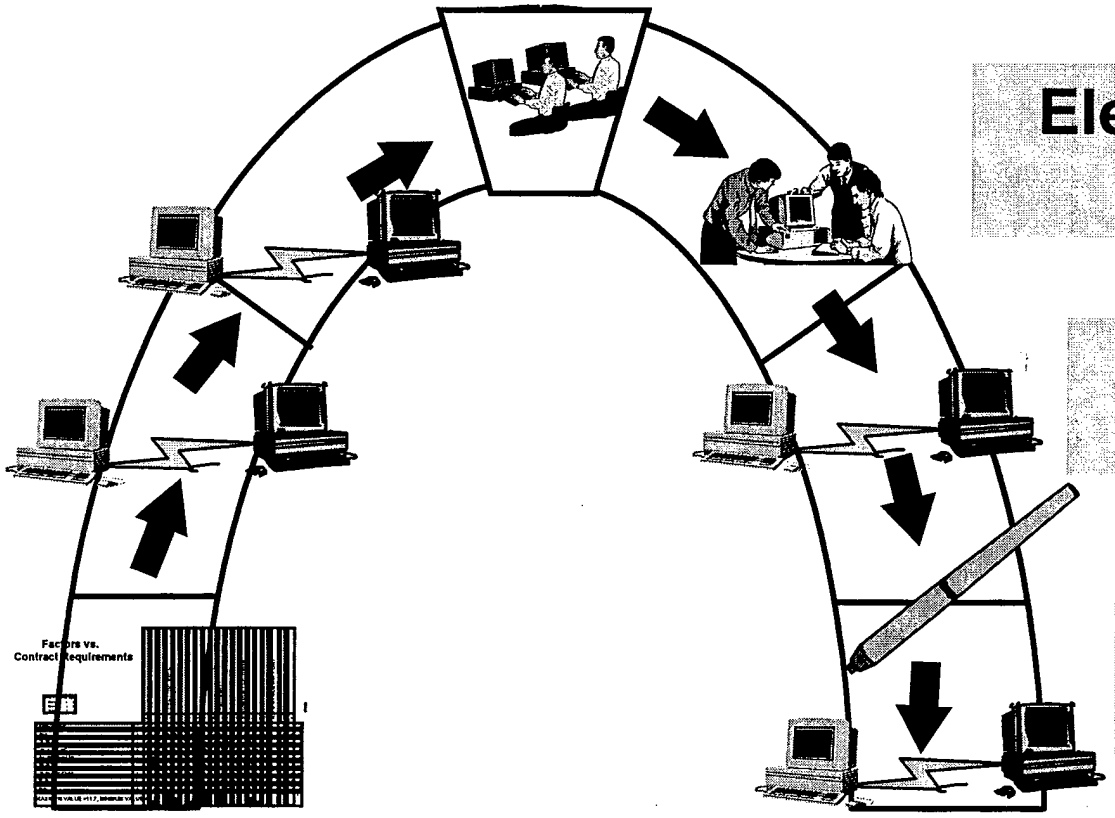
Secure Socket Layer (SSL) encryption for protection during transmission of information

IFN posting and IFN response forms

Proposal Receipt, including cost data

WHERE WE ARE GOING...

Electronic Source Selection Tool



Electronic Signature Capability

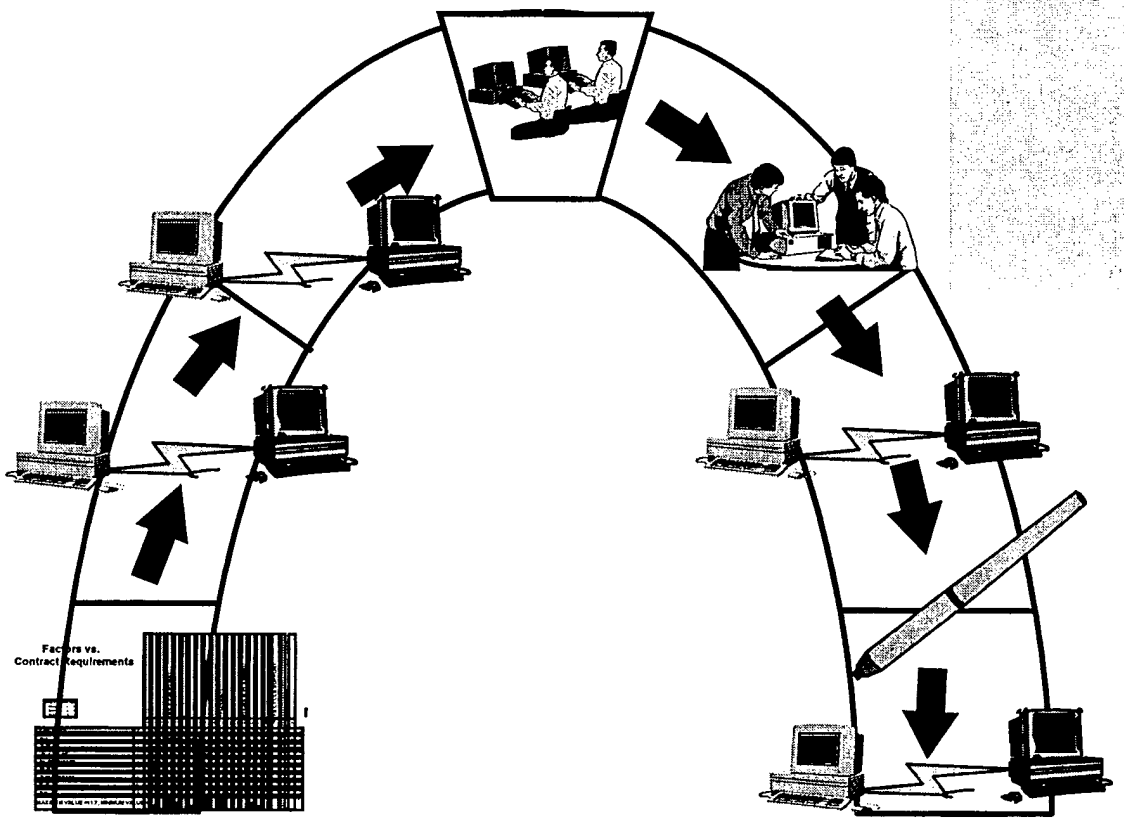
Electronic Payment Through DFAS

On-line Archive of Awards

On-line Directory of Local Government Clauses

WHERE WE ARE GOING...

Virtual Bid Room

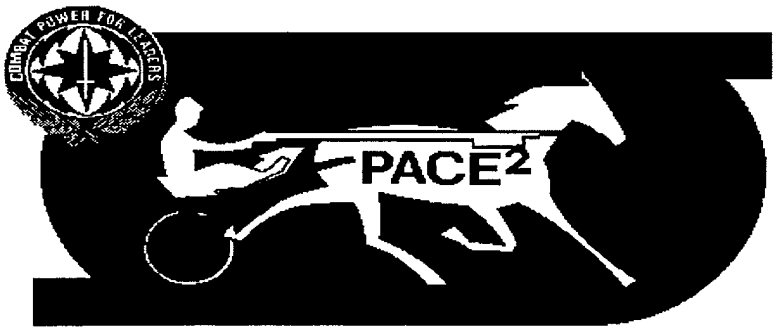


Prospective sub-contractor lists available from BOP solicitation mailing list

Direct link from BOP to drawing database to view, download, request CD ROM drawings

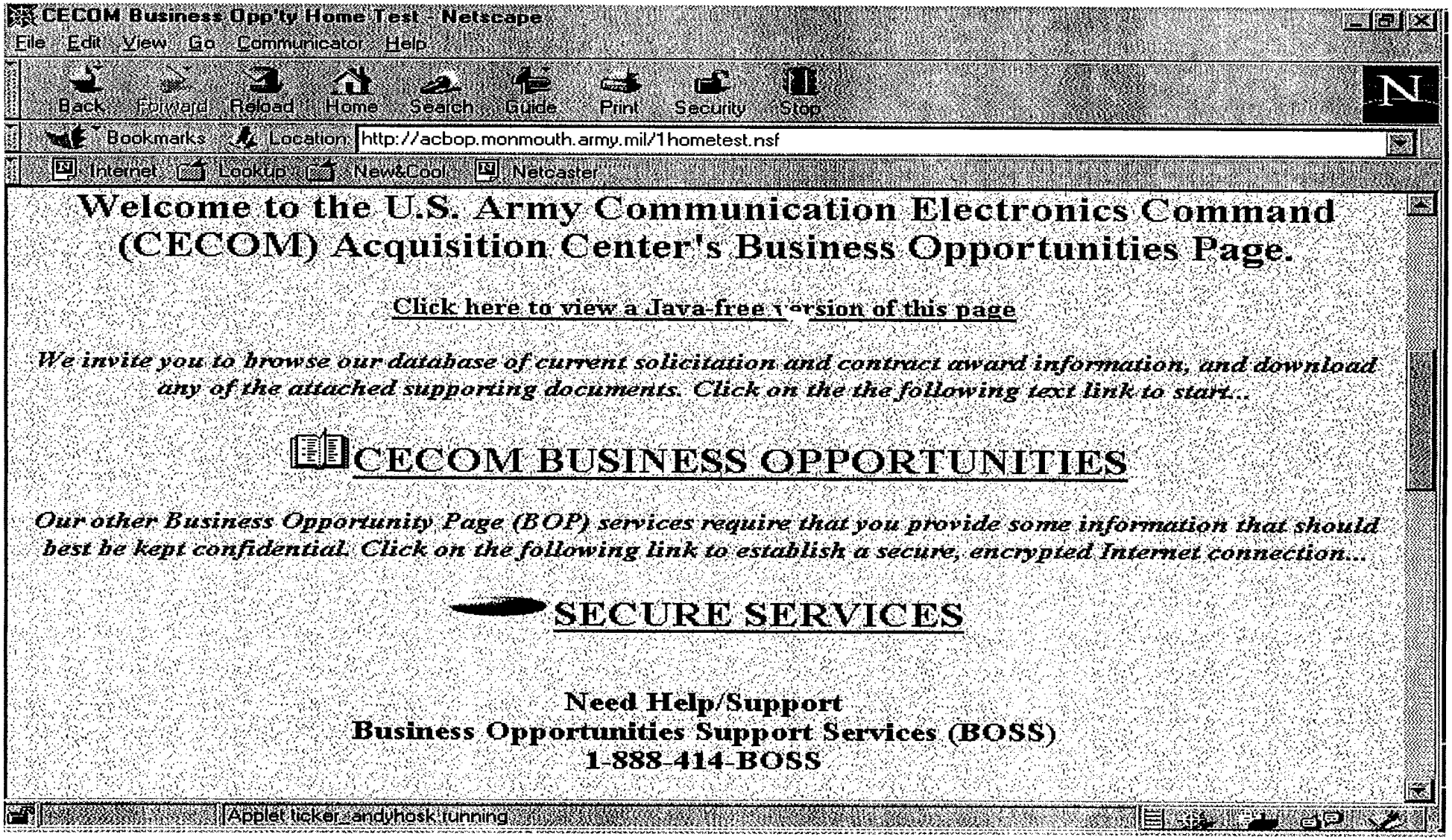
Electronic Mail notification of New Business Opportunities

"We have been designated Army test site for Paperless Acquisition"



...LEADING THE PAPERLESS CONTRACTING INITIATIVE:

TO BE A TOTALLY PAPERLESS OPERATING SYSTEM BY THE YEAR 2000



http://acbop.monmouth.army.mil

VISIT OUR BOP BOOTH AT THE APBI

UPDATE OF 1997 LEVEL I APBI CONTRACT OPPORTUNITIES

AWARDED
1997 REQUIREMENTS

TITLE: STAMIS COMPUTER CONTRACT II (SCCII)
AWARDED: OCT 97
DOLLAR AMT: $469.6M
CONTRACTOR: GTSI (GOVERNMENT TECHNOLOGY SERVICES, INC.)

TITLE: QUALITY ASSURANCE, ACCEPTANCE TESTING AND T&E SUPPORT SERVICES
AWARDED: SEP 97 (MULTIPLE AWARD)
DOLLAR AMT: $2.07M EACH
CONTRACTOR: FC BUSINESS SYSTEMS
CORREA

TITLE: INFORMATION SECURITY ENGINEERING SUPPORT SERVICES
AWARDED: SEP 97
DOLLAR AMT: $25.6M (5 YEARS)
CONTRACTOR: J.G. VANDYKE

TITLE: SOFTWARE ENGINEERING AND TECHNICAL SUPPORT
AWARDED: JAN 98 (MULTIPLE AWARD)
DOLLAR AMT: $ 88.3M (5 YEARS)
$108.1M (5 YEARS)
$ 94.5M (5 YEARS)
CONTRACTOR: FRONTIER APPLIED SCIENCES
EER SYSTEMS
RESEARCH ANALYSIS

TITLE: LIGHTWEIGHT AIRBORNE MULTI SPECTRAL COUNTERMINE DETECTION SYSTEM
AWARDED: MAR 98 (ADDITIONAL CONTRACTS WILL BE AWARDED 4QFY98) SUPPORT CONTRACT-DELIVERY ORDER
DOLLAR AMT: $377K
CONTRACTOR: EORI

TITLE: MINE HUNTER/KILLER
AWARDED: 2QFY98 (ADDITIONAL CONTRACTS WILL BE AWARDED THROUGH FY99) - SUPPORT CONTRACT - DELIVERY ORDER - MULTIPLE AWARD
DOLLAR AMT: $150K AND $100K
CONTRACTOR: SAIC
FIBERTEK

TITLE: MODELING AND SIMULATION
AWARDED: NOV 97
DOLLAR AMT: $99,993
CONTRACTOR: ATLANTIC CONSULT SERVICES

TITLE: BATTLE PLANNING
AWARDED: MULTIPLE AWARD: 1QFY98
NOV 97
DOLLAR AMT: $98,150
$97,772
CONTRACTOR: AUSTIN INFO SYSTEMS
DUAL CORP.

TITLE: CICM VHF/UHF COSITE MITIGATION FOR BRIGADE LIGHT DIGITAL TOC (LDTOC)
AWARDED: 2QFY98
DOLLAR AMT: $810K
CONTRACTOR: XETRON

TITLE: STANDARD SYSTEMS TECHNOLOGY SUPPORT-2 (SSTS-2)
(TITLE CHANGED TO: ENHANCE TECHNOLOGY-1)
AWARDED: 2 APR 98 - BPA

ACTIVE
1997 REQUIREMENTS

TITLE: ARMY PERSONAL COMPUTER-3
RELEASE RFP: 3QFY98
FORECAST AWARD: 2QFY99

TITLE: ARMY PORTABLE COMPUTER-3 (PORT-3)
RELEASE RFP: 1QFY99
FORECAST AWARD: 2QFY99

TITLE: INFRASTRUCTURE ARCHITECTURE SOLUTIONS-1 (IAS-1)
RELEASE RFP: 4QFY98
FORECAST AWARD: 1QFY99

TITLE: ARMY VIDEO TELECONFERENCING-1 (VTC-1)
RELEASE RFP: 3QFY98
FORECAST AWARD: 4QFY98

TITLE: MAXI-MINIS AND DATABASES-1 (MMAD-1)
RELEASE RFP: TBD
FORECAST AWARD: TBD

TITLE: MOVEMENT TRACKING SYSTEM (MTS)
RELEASE RFP: JUN/JUL 98
FORECAST AWARD: TBD

TITLE: FIREFINDER BLOCK II P3I PROGRAM
RELEASED RFP: NOV 97
FORECASTED AWARD: MAY 98

TITLE: THERMAL OMNIBUS
RELEASED RFP: JAN98
FORECASTED AWARD: JUN98

TITLE: LIGHTWEIGHT VIDEO RECONNAISSANCE SYSTEM (LVRS)
RELEASE RFP: 1QFY00
FORECAST AWARD: 2QFY00

TITLE: OMNIBUS V
RELEASE RFP: MAY 98
FORECAST AWARD: 4QFY98

TITLE: ARMY INTEROPERABILITY ENGINEERING (AIE) DEVELOPMENT, INTEGRATION, & TECHNICAL SUPPORT
RELEASE RFP: 3QFY98
FORECAST AWARD: 1QFY99

TITLE: LIFE CYCLE SYS & SOFTWARE ENGINEERING SUPPORT FOR FIRE SUPPORT COMMAND, CONTROL, FIRE DIRECTION AND OTHER SYSTEMS
RELEASE RFP: 3QFY98
FORECAST AWARD: 1QFY99

TITLE: JTACS SYSTEMS AND SOFTWARE ENGINEERING SUPPORT FOR TACTICAL CIRCUIT/MEASURE/PACKET SWITCHES
RELEASE RFP: 1QFY99
FORECAST AWARD: 3QFY99

TITLE: MCDS HARDWARE MAINTENANCE & TECHNICAL SUPPORT
RELEASE RFP: 3QFY99
FORECAST AWARD: 1QFY00

TITLE: DEPT OF ARMY SOFTWARE SUPPORT SERVICES UMBRELLA 4 (DASSS-U4)
RELEASE RFP: 2QFY00
FORECAST AWARD: 3QFY00

TITLE: R&D, TRAINING AND TECHNICAL SUPPORT SERVICES
RELEASE RFP: 3QFY98
FORECAST AWARD: 4QFY98

TITLE: ELECTRONIC SUPPORT/SIGNAL INTELLIGENCE TECHNIQUES
RELEASE RFP: TBD
FORECAST AWARD: TBD

TITLE: SOLID STATE NEAR IR SENSORS
RELEASE RFP: 3QFY98
FORECAST AWARD: TBD

TITLE: INTEGRATED SITUATIONAL AWARENESS AND COUNTERMEASURES
FORECAST AWARD: SPLIT: 1QFY99
1QFY99

TITLE: MULTI-FUNCTION STARING SENSOR SUITE (MFS3)
FORECAST AWARD: 4QFY98

TITLE: SHF SATELLITE COMM OTM ANTENNA/POSITIONER/TRACKER
FORECAST AWARD: 3QFY98

TITLE: ACUS RADIO MODERNIZATION PROGRAM
RELEASE RFP: FEB 98
FORECAST AWARD: JUN 98

TITLE: SCAMP BLOCK II
RELEASE RFP: 3QFY00
FORECAST AWARD: TBD

TITLE: COMMON NETWORK PLANNING SOFTWARE
RELEASE RFP: SEP 98
FORECAST AWARD: TBD

TITLE: AN/GSC-52 MODERNIZATION PROGRAM
RELEASED RFP: FEB 98
FORECAST AWARD: JUN 98

INACTIVE
1997 REQUIREMENTS

TITLE: NETWORKS-1 (NET-1)
REASON: POSTPONED INDEFINITELY

TITLE: PRECISION NAVIGATION
REASON: CANCELED

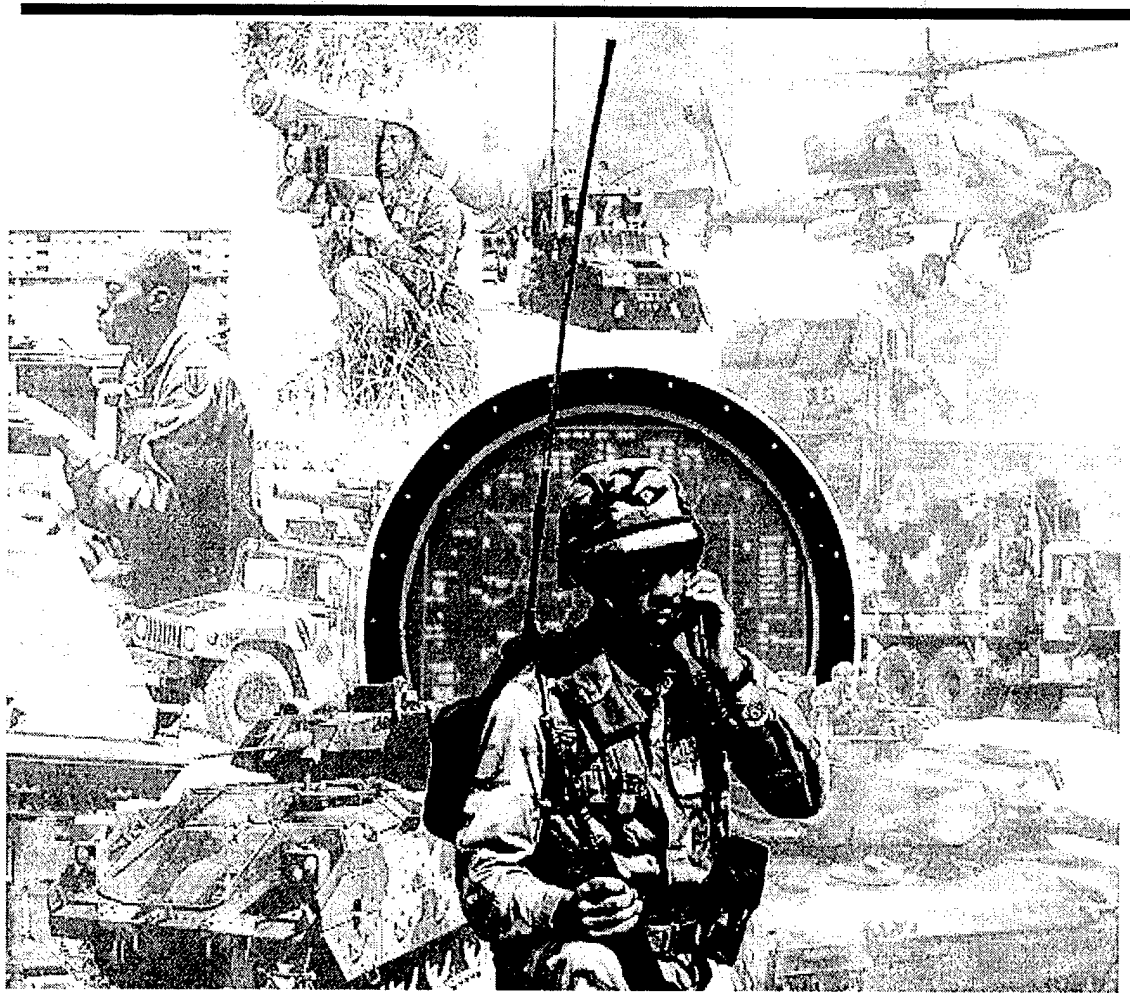
TITLE: ADVANCED POWER SOURCES
REASON: CANCELED

TITLE: DEFENSE SATELLITE COMMUNICATIONS SYSTEM SPECTRUM MANAGEMENT SYSTEM
REASON: POSTPONED INDEFINITELY

NOTES

SESSION II

US Army Communications-Electronics Command Logistics and Readiness Center (CECOM LRC)

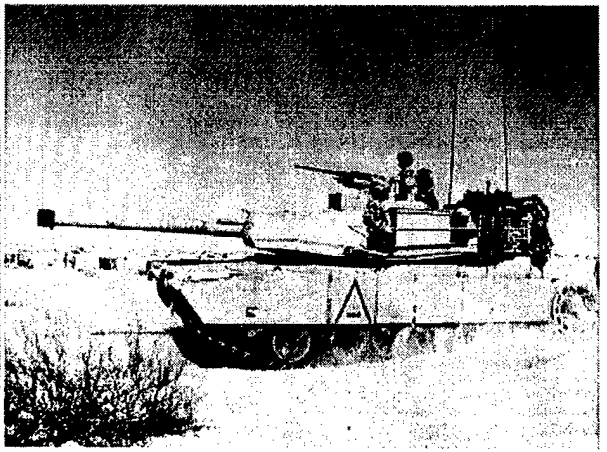


LRC Overview

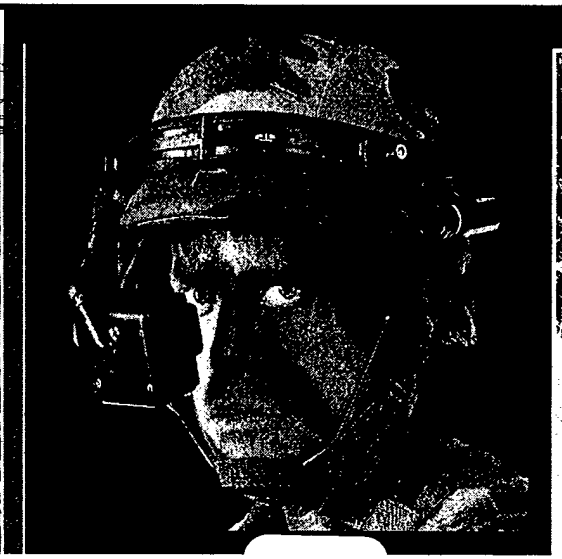
Presented by:
Anthony LaPlaca
Director

UNCLASSIFIED





LRC Vision:
To be the C4IEWS logistics provider of choice


Logistics Organization

Logistics & Readiness Center

National Inventory Control Point

Integrated Logistics Planning and Development

Production and Industrial Base Engineering



Technical Assistance for Systems

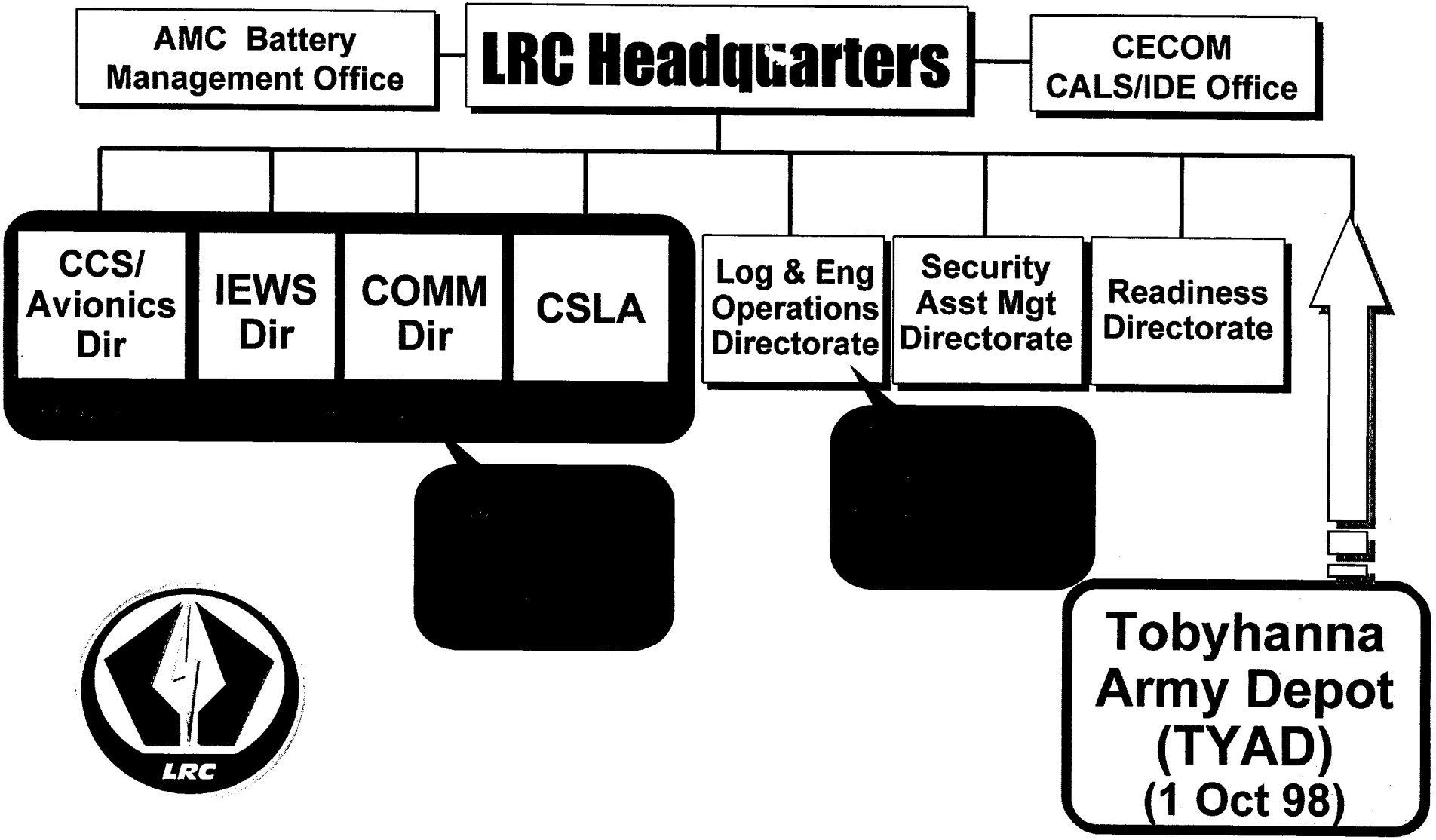
Depot Maintenance

National Maintenance Point

System Fielding & New Equipment Training

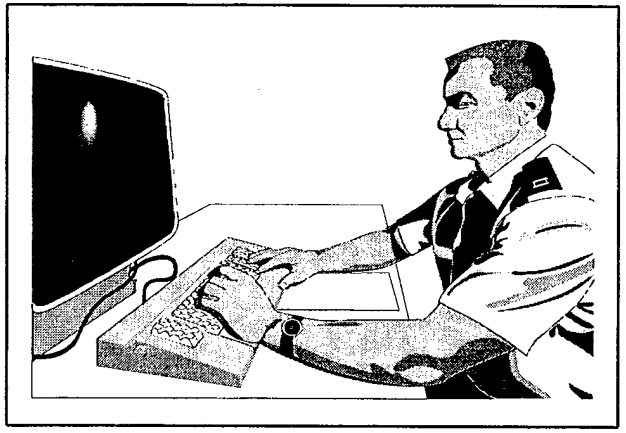
Security Assistance Program Management

Our Structure



Top 15 Objective Areas for FY 98

- Reshape
- Logistics Modernization
- Force XXI
- ✓ Power Sources Center of Excellence
- TYAD Transition from Industrial Operation Command (IOC) to LRC
- Go-to-War Support Capability
- Inventory Reduction (Cycle Time Reduction)
- Modernization Through Spares
- Work Redistribution (SALC to TYAD)
- ✓ Life-Cycle Support Cost Reduction
- Velocity Management
- Integrated Data Environment
- Business Development
- INFOSEC
- Single/Virtual IMMC







POWER MANAGEMENT FOR THE ARMY

THE OBJECTIVE

The most power efficient solutions for the least weight and the least cost

THE VARIABLES

- **Technology of the power source**
- **Power demands of the device being powered**
- **Operational requirements**

POLICIES

AAE Policy Memorandum - Power Sources Management signed by G. Decker on 30 Sep 96 states:

- Use standard batteries

- Design for power management

- Use rechargeables

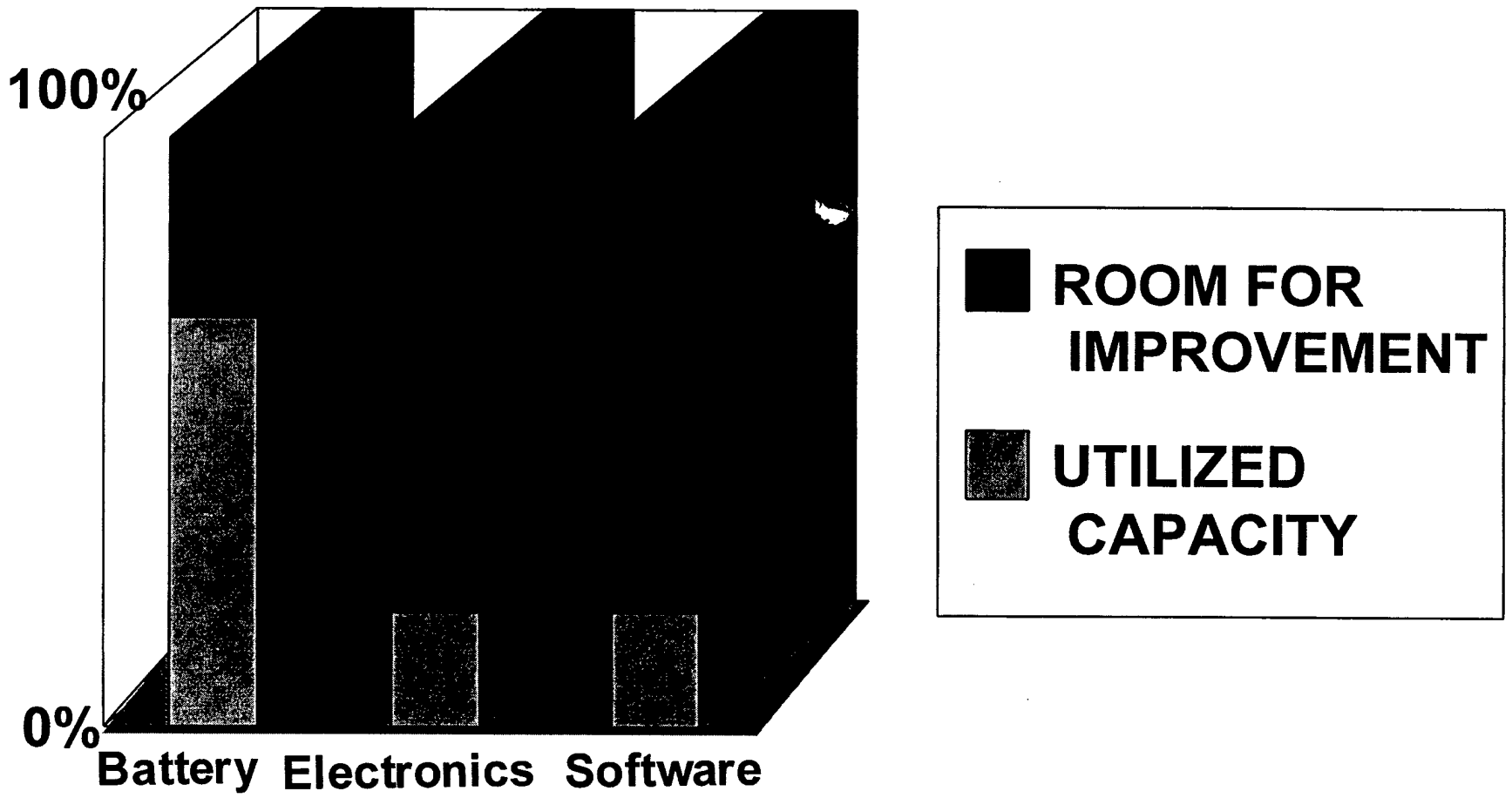
DA, DCSLOG Rechargeable Battery Implementation Policy signed by LTG Coburn on 29 Aug 97 states:

Effective 1 October 1998, all units (except units which use less than 12 batteries per year) will use rechargeable communications/ electronics batteries for garrison duty, training, and Support and Stability Operations the Commander deems appropriate.

FUTURE POWER SOURCE TECHNOLOGIES

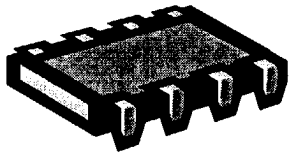
There is no "SILVER BULLET" in the power sources arena, however, it is an important part of a multi-disciplinary approach

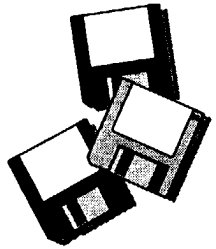
POWER IMPROVEMENT POTENTIAL



POWER MANAGEMENT
A MULTI- DISCIPLINED APPROACH

- **Engineering features (hardware, software and architecture) within electronic equipment that provide automatic regulation and conservation of electrical energy usage.**
- **Efficient power generation & storage**
- **Operational environment**






WHAT DOES POWER MANAGEMENT MEAN TO:

SOLDIERS **- Lighten Load, Longer Mission, Reduced Training**

LOGISTICIANS **- Lower Cost (Battery & Fuel), Reduced Maintenance, Logtrains**

ENABLERS

TRADOC **- Power Management Requirements and Exit Criteria**

PMs/PEOs **- Requirements, Source Selection, Exit Criteria**

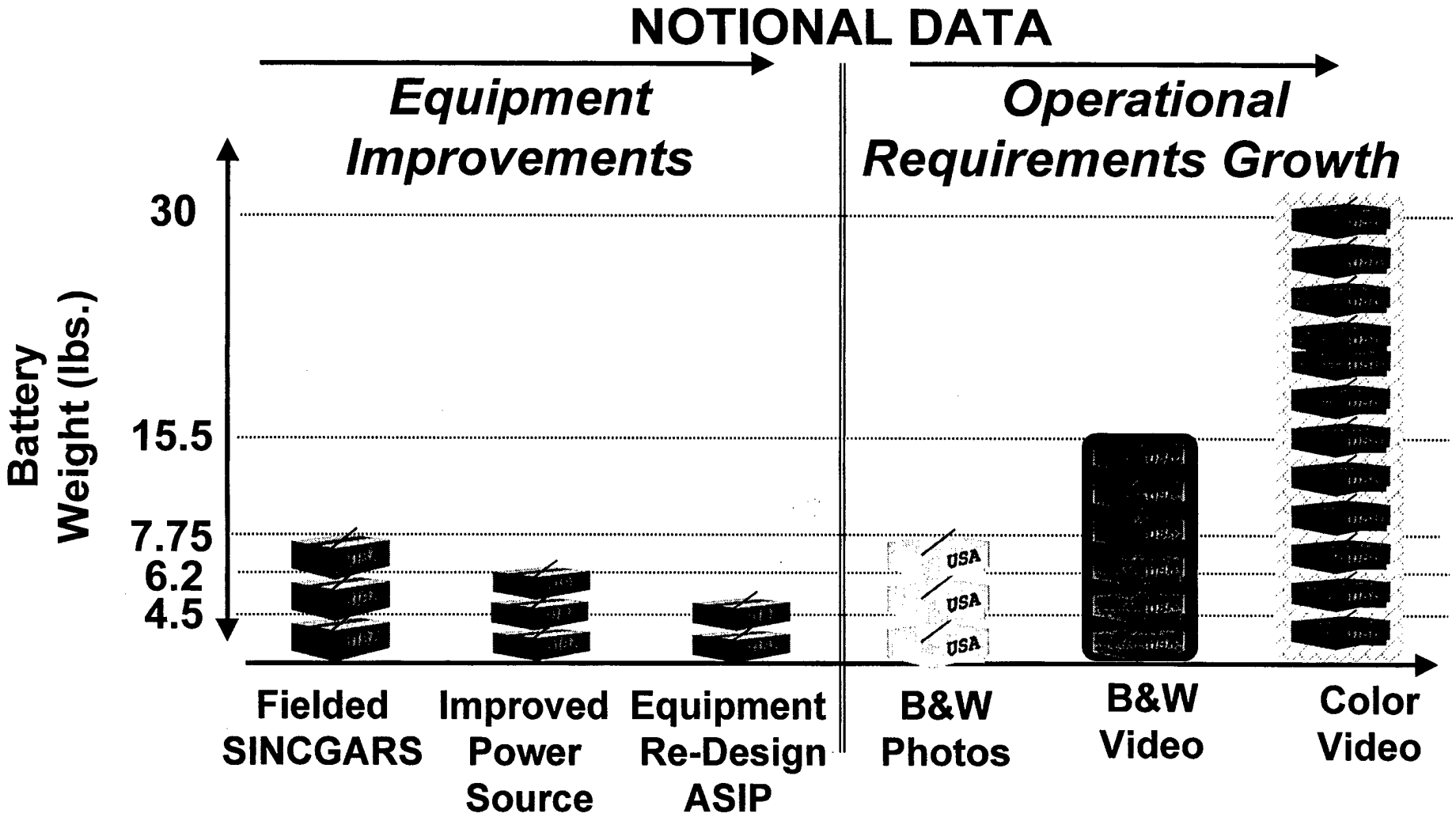
AMC/MSCs **- Modernization Through Spares (MTS)**

Contractors **- Power Management as a Design Criteria From Beginning**

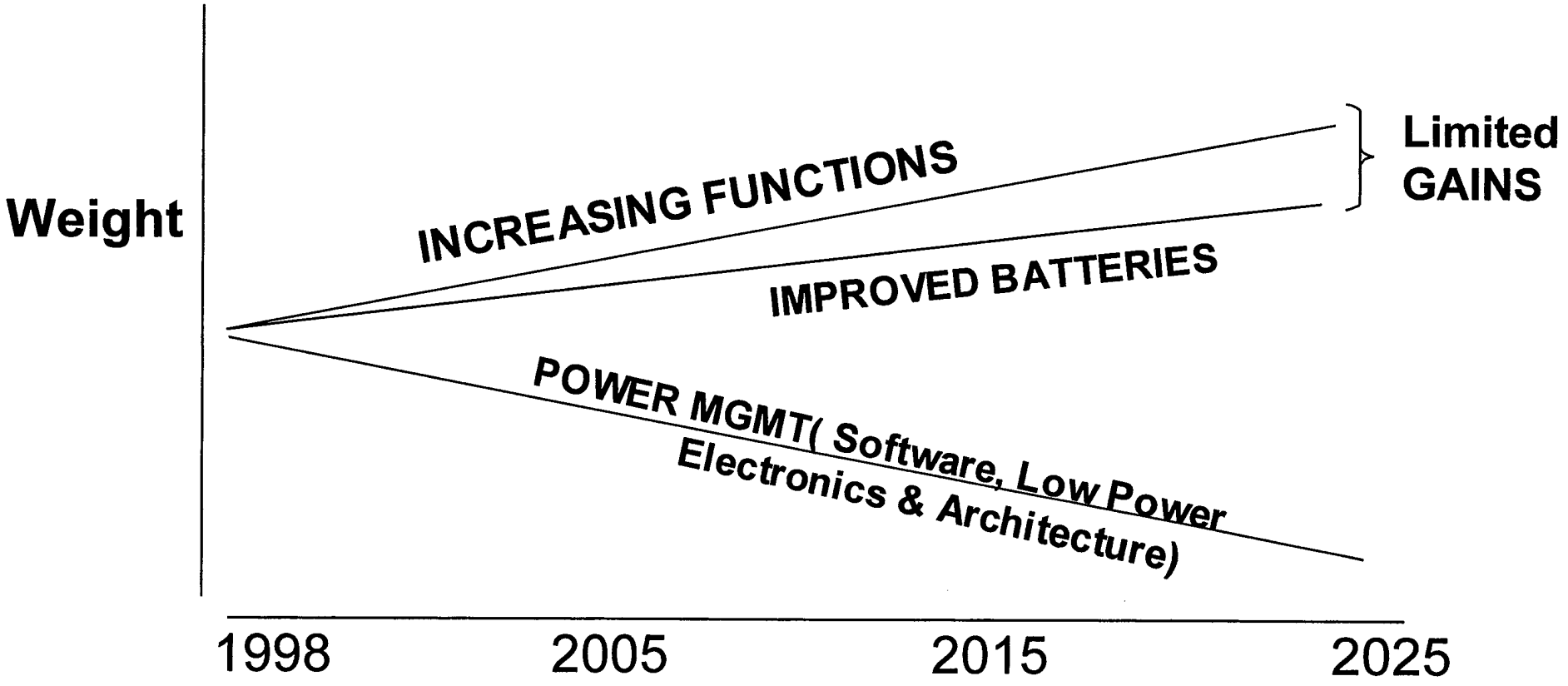
POWER MANAGEMENT - A COMBINATION OF SOLUTIONS

- **Light-Weight Power Sources**
  - **Batteries**
  - **Ultracapacitors**
  - **Hybrid Systems**
  - **Fuel Cells**
  - **Thermophotovoltaics**
  - **Microturbines**
- **Low Power Electronics**
- **Develop CAD and Analysis Tools Capability**
- **Smart Use of Power**
- **AAE Power Management Policy**
- **TRADOC-Initiated Requirements**
- **General and System Specific Criteria**
- **Power As Independent Variable (PAIV)**

TOTAL SYSTEMS APPROACH
SINCGARS: 72 HOUR MISSION



WARFIGHTER ELECTRONICS BURDEN



PLAN

- Continue to improve power sources for legacy systems [2x]
- When applicable, redesign legacy systems utilizing power management techniques
- Acquisition of new systems - ensure heavy emphasis on power management evaluation
- Continue work with PSCOE and ensure all materiel developers and combat developers understand the functionality/weight/cost tradeoffs
- Promote Horizontal Technology Integration (HTI)
- Increase collaboration between Government, industry and academia - e.g., Power Sources Conference

BOTTOM LINE: COMPREHENSIVE, MULTI - DISCIPLINARY APPROACH



OPERATION & SUPPORT (O & S) COST REDUCTION

AAE/VCSA Memorandum

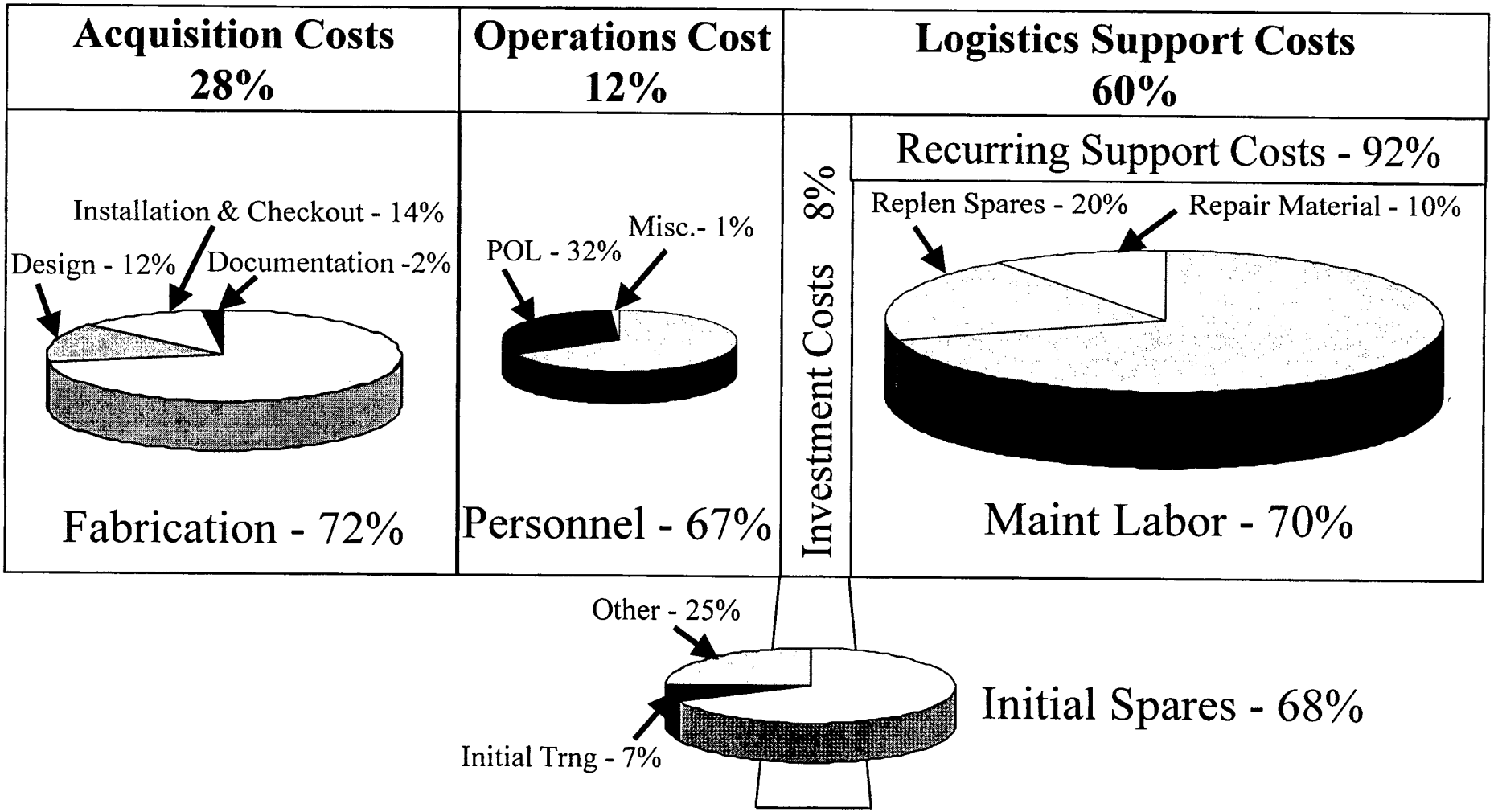
- **Reducing O&S Costs is a top Army priority and ranks above nominal performance increases in the requirements determination process**
- **Modifications and upgrades that provide savings during the POM period will receive funding priority**
- **Performance evaluations and support forms for all PMs and TRADOC system managers will include remarks addressing O&S cost reduction efforts**

Life Cycle Cost Support Reduction:

REQUIREMENT: Acquisition and Reform initiatives require PEOs and PMs to include in solicitations the requirement to achieve a specified Cost As an Independent Variable (CAIV) for O&S costs

OUR PROMISE: Provide PMs and non-PM managed systems with relevant methods to evaluate contractors CAIV in Source Selection Evaluation Boards

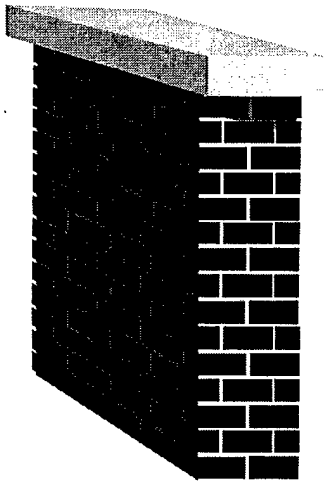
Life Cycle Cost Distribution

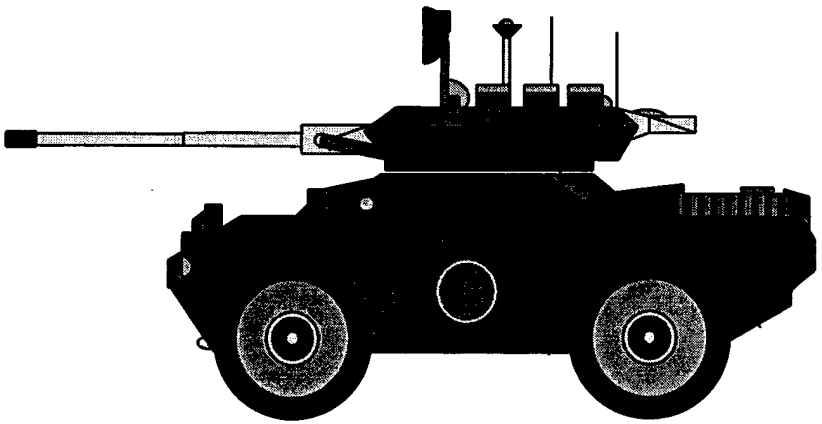


Source: DA ILS Symposium, 5-7 Nov 97, Life Cycle and O&S Costs by Mr.. James B. Emahiser/ADUSD(L)

Challenges

- Baseline O&S
- Evaluate O&S
- Reduce O&S
- Measure O&S





Our Approach

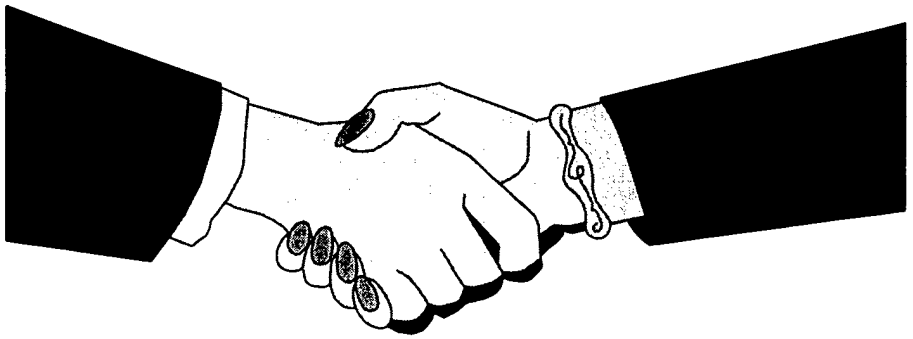
- **Critical Parameters (Cost Drivers)**
- **Industry Involvement**
- **Partner with TRADOC for the ORD**
- **Partner with Industry (Programmatic)**
- **Acquisition Efforts (Continuous advancement to reduce costs)**

O&S Cost Reduction Initiatives

- Direct Vendor Delivery
- Rapid Transportation
- Dedicated (Scheduled) Deliveries
- Order Ship Time Reduction (OST)
- Integrated Data Environment (IDE)
- Joint Total Asset Visibility (JTAV)
- Rightsizing Civilian Workforce
- IMPAC Cards
- Flexible On-Demand Manufacturing Contracts
- Regional Contracts for Installation Support Material
- Data Conversion
- Technology Insertion
- CECOM Operating & Support Cost Reduction (OSCR)
- Modernization Through Spares (MTS)
- Cost As an Independent Variable (CAIV)

The Vision

The Government will consider all inputs with the goal of developing a *unified approach to LCC within Team C4IEWS - focusing on O&S!!!!!*



What's on Our Website

http://www.monmouth.army.mil/cecom/lrc/

- **Information for others about the LRC mission**
- **Information for the LRC Workforce**
- **Tools for the LRC Workforce**



Bottom Line: The Soldier

Urgent News

Who We Are
- Organizational Chart
- LRC Office Symbols
- LRC Personnel Search
- C4IEWS White Pages

Logistics Support
- LAR Locator
- Logistics Reinvention
- C4IEWS Project Book
- Hard Core Report
- Safety Messages
- The CECOM & NDIA International Trade Show

Handy Tools
- DOD Acronym Finder
- Airbill Tracking
- CCSS Applications
- DRMS Search
- DLA Handbook
- NSN/Equipment Listing
- MRO Status Query
- DODAAC/RIC Lookup

Supply & Maintenance Documents
- Supply & Maint Bulletins
- Power Sources News

United States Army Communications-Electronics Command Logistics and Readiness Center

Provides Team C4IEWS communications electronics logistical support for the U.S. Army

Director
Mr. Anthony A. LaPlaca

• LRC News

Welcome to the new LRC Web Page. It's been totally redesigned and updated to meet the growing demand from you-- the users...

We appreciate your continued support of the LRC Home Page. These changes reflect comments and suggestions that we have received from you. As always, the goal is to provide you with the best home page possible, while allowing you to find the information and tools you need to do your job quickly and easily. Please send us your comments to the LRC Web Team.

•Coming Soon--The LRC Intranet

The Intranet will allow us to provide even more timely and up-to-date

LRC OPPORTUNITY BRIEFINGS

* Business Functional Area Omnibus Contract
  - Edward Thomas
- Omnibus Support Services
  - Richard Riccelli
- AN/VIC-3
  - Charles Penta
- Battery Acquisitions
  - Ron Cialino
- Improved ECU
  - Charles Thompson

* PA&I Brief

CECOM Bottom Line:



NOTES

BUSINESS FUNCTIONAL AREA OMNIBUS CONTRACT

MR. EDWARD C. THOMAS
DIRECTOR, PLANNING, ANALYSIS AND INTEGRATION

UNCLASSIFIED

POINT PAPER

SUBJECT: Business Functional Area Omnibus Contract

1. Overview. The proposed subject contract addresses issues where additional support and expertise is needed to assist CECOM/Fort Monmouth decision-makers in assessing the risks, cost/benefits, economic effects and consequences of alternative public policy initiatives or regulatory actions. Topics deal with broad economic and public policy issues related to decisions on existing and future communications-electronics systems development strategies and resource allocation decisions, down to regulations impacting individual procedures. Many of the issues require local, national and international perspectives and have implications across all governmental organizations. Support in this area may be driven by regulatory and legislative requirements. When performed as an integral part of a task, work may require the contractor to plan and conduct workshops, conferences and training courses sponsored by CECOM/Fort Monmouth activities and to disseminate technical information developed under that task. The primary skill requirement of this functional area focuses on the following disciplines:

(a) Cost Analysis
(b) Fiscal Man gement
(c) Program Analysis
(d) Systems Analysis
(e) Management Analysis

2. Contract Type: Indefinite Delivery/Indefinite Quantity (ID/IQ), Time-and-Materials (T&M)

3. Period of Performance: The contract is anticipated to start 28 October 1999 and end 27 October 2004 if all options are exercised.

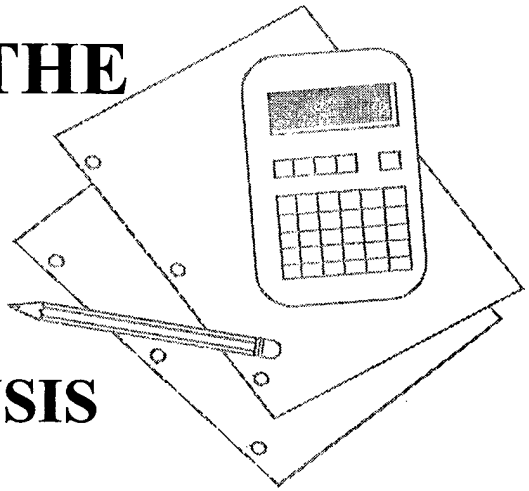
4. Points of Contact (POC):

- Acquisition POC: Mr. Joseph P. Brady
  AMSEL-AC-CB-C-BS
  Fort Monmouth, NJ 07703-5008
  (732) 532-5500
  FAX: (732) 532-1928

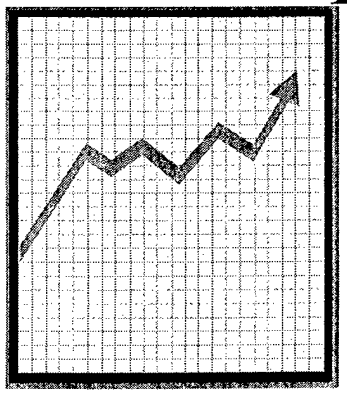
- Technical POC: Mr. George P. Guattare
  AMSEL-PE-FC
  Fort Monmouth, NJ 07703-5000
  (732) 532-3074
  FAX: (732) 532-6736

DEFINITION

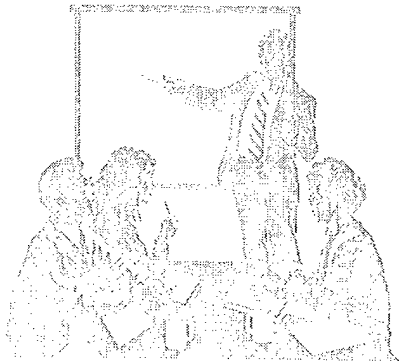
BUSINESS FUNCTIONS INCLUDE THE FOLLOWING.....



- **COST ANALYSIS**
  - **- COST ESTIMATING AND ANALYSIS**
  - **- COST ESTIMATING UTILITIES**
  - **- SELECTED ACQUISITION INFORMATION AND MANAGEMENT SYSTEMS (SAIMS)**
- **FISCAL MANAGEMENT**
  - **- PROGRAMMATIC AND MANPOWER**
  - **- PROGRAMMATIC AND INTEGRATION**
  - **- BUDGET FORMULATION**
  - **- BUDGET EXECUTION**



DEFINITION



- **PROGRAM ANALYSIS**
  - **FORMULATE PLANS**
  - **GUIDE ACQUISITIONS**
  - **MONITOR PROGRESS/TRENDS/SCHEDULES**

- **SYSTEMS ANALYSIS**
  - **LOGISTICS SUPPORT ANALYSIS**
  - **DECISION RISK ANALYSIS**
  - **WARRANTY COST EFFECTIVENESS**
  - **COST/BENEFIT OF ALTERNATIVES**

- **MANAGEMENT ANALYSIS**
  - **STUDIES**
  - **ORGANIZATION REVIEWS/REALIGNMENTS**

WORKLOAD HISTORY
AND ESTIMATED REQUIREMENT

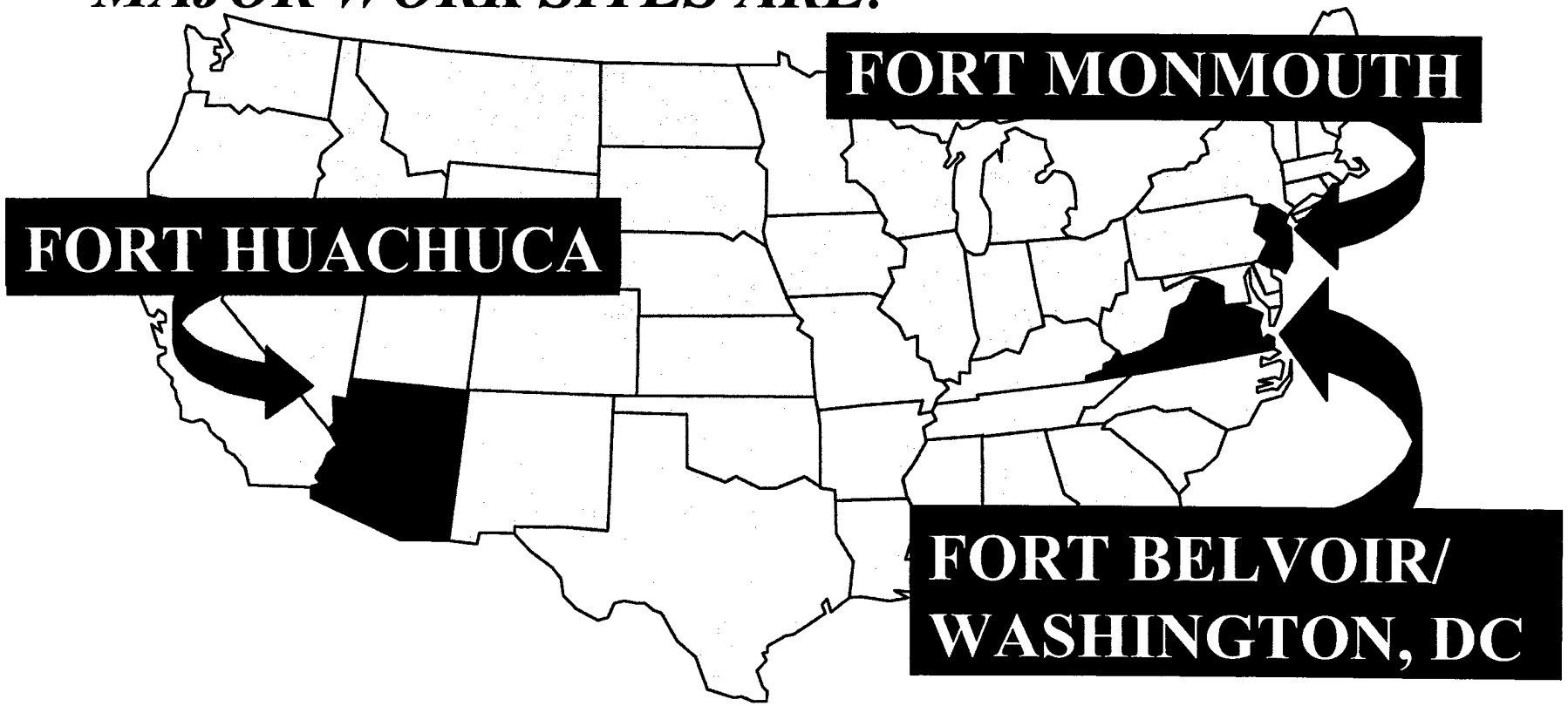
	WORKYEARS				TOTAL
	FY95	FY96	FY97	FY98	FUNDING
SYS MGT CTR	5	13	22	23	$6.372M
PA&I DIR	0	0	3	1	$.473M
LOG & READ CTR	6	5	5	3	$1.784M
RD&E CTR	0	1	1	2	$.340M
PEO-C3S	10	10	17	15	$5.186M
PEO-IEW&S	7	16	25	6	$5.451M
TOTALS	28	48	70	50	$19.606M

- WORKYEARS USED IN ALL BUSINESS FUNCTIONS
- FUTURE REQUIREMENTS - SAME LEVEL OR MORE

WORK SITES

CECOM AND FT. MONMOUTH ACTIVITIES HAVE OPERATIONS WORLDWIDE.

MAJOR WORK SITES ARE:



OTHER WORK/SITES

- **ACTIVITIES OUTSIDE FT MONMOUTH HAVE USED THE CURRENT CONTRACT:**

	WORKYEARS	TOTAL FUNDING
FY95	17	$1.640M
FY96	15	$1.504M
FY97	54	$5.393M
FY98	29	$2.975M
TOTAL	115	$11.512M

EXAMPLES: US ARMY SIG CENTER & SCHOOL SOUTHERN COMMAND, US FORCES KOREA, ARMY MATERIEL COMMAND

CONTRACT OPPORTUNITY

TITLE: BUSINESS FUNCTIONAL AREA SUPPORT

OBJECTIVE: SUPPORT DECISION MAKERS IN THE BUSINESS ANALYSIS AREAS

CONTRACT TYPE PROPOSED: ID/IQ, T&M, (BEST VALUE), SBSA

KEY MILESTONE: RFP RELEASE ~2ND QTR FY99

EST VALUE: $30 - $50 MILLION

ACQUISITION POC: JOE BRADY (732) 532-5500
TECHNICAL POC: GEORGE GUATTARE (732) 532-3633

NOTES

OMNIBUS SUPPORT SERVICES FOR LOGISTICS AND READINESS CENTER



MR. RICHARD RICCELLI
CHIEF, TECHNICAL POLICY & PROGRAMS BRANCH
LEO DIRECTORATE

UNCLASSIFIED

AMSEL-LC-LEO-E-EP

POINT PAPER

SUBJECT: LRC OMNIBUS Support Services Acquisition

OBJECTIVE: To provide support services for the Logistics and Readiness Center (LRC) with a full range of life cycle integrated logistics, technical, engineering and administrative support pertaining to weapon system support and a full range of Total Package Fielding, New Equipment training and Electronic Sustainment Support, pertaining to readiness support. These services will also be available to any Command, Control, Communications, Computer, Intelligence, Electronic Warfare and Sensors (C4IEWS) activity or organization support.

FACTS:

* This acquisition will replace the following LRC OMNIBUS contracts:

CONTRACTOR	EXPIRES
VENNTRONIX	2/00
INNOLOG	2/00
COBRO	2/00
MVP	8/99
ARINC	7/98
Nations (Readiness)	4/00
EPS (Readiness)	9/00

* Milestones listed below reflect the planned schedule for the LRC OMNIBUS effort:

Issue Solicitation	1QTR - FY99
Receive Proposals/ Start Evaluation	1QTR - FY99
Complete Evaluation	3QTR - FY99
Award Contracts	3QTR - FY99

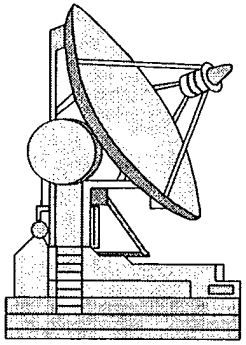
* For the weapon system support effort, there will be two Best Value, Time and Materials, Indefinite Delivery/Indefinite Quantity procurements. Two Small Business Set Aside contracts will be awarded with the same Statement of Work, with at lease one (1) 8(A) award. For the readiness effort, there will be one Best Value, 8A Set Aside contract awarded. All contracts are planned to be awarded for one base year and four one year options.

BRIEFER: Mr. Richard Riccelli, Chief, Technical Policy and Programs Branch, Logistics and Engineering Operations Directorate, AMSEL-LC-LEO-E-EP, (732) 532-8911.

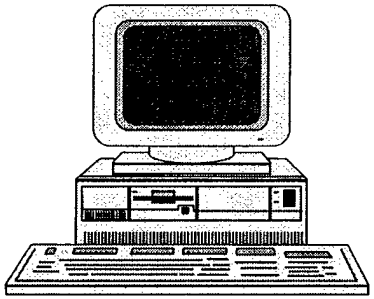
RICHARD A. RICCELLI
Chief, Technical Policy and Programs Br
Logistics and Engineering Operations Dir



LRC OMNIBUS SUPPORT SERVICES PROGRAM DEFINITION



- Omnibus contractual support services for CECOM Logistics & Readiness Center (LRC)
- Separated into two areas:
  - Weapon System support
  - Readiness support





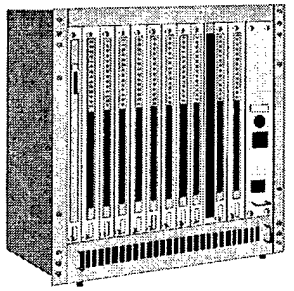
LRC OMNIBUS SUPPORT SERVICES
PROGRAM DEFINITION (Continued)

Equipment Life Cycle					
Acquisition Phase			Sustainment Phase		
CONCEPT EXPLORATION	PROGRAM DEFINITION & RISK REDUCTION	ENGR & MFG DEV	PRODUCTION FLDG/DEPLOY	OPERATIONAL SPT	DISPOSAL

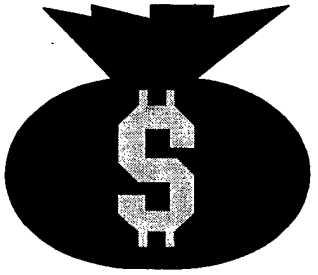
Perform full spectrum of logistics support across the entire life cycle

LRC OMNIBUS SUPPORT SERVICES
WEAPON SYSTEM SUPPORT

- **Integrated Logistics Support**
- **Engineering**
  - **Production**
  - **Maintenance**
  - **General**



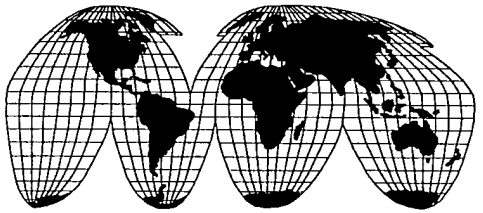
- **Product Quality Management**
- **Value Concepts -**
  Life Cycle Cost Reduction
  MTS/OSCR



LRC OMNIBUS SUPPORT SERVICES
WEAPON SYSTEM SUPPORT (CONTINUED)



- Life Cycle Maintenance
- Test Program Sets
- Sample Data Collection
- General Supply Management
- Foreign Military Sales Support
- Force Modernization
- Training
- General Process/program Support



LRC OMNIBUS SUPPORT SERVICES
LABOR CATEGORIES

WEAPON SYSTEM SUPPORT

Program Manager
Project Manager
Site Manager
Senior/Junior Engineer
Logistics Engineer
Production Engineer
Electronics Engineer
Mechanical Engineer
Software Engineer
Quality/RAM Engineer
Engineering Intern
Value Engineer
Project Engineer
Engineering Technician
Parts Lister
Logistics Analyst
Systems Analyst
Cost Analyst

LRC OMNIBUS SUPPORT SERVICES LABOR CATEGORIES (Continued)

WEAPON SYSTEM SUPPORT

EMI/EMC Associate Engineer/EMI/EMC Electronic Engineer

Senior Logistician/Logistician

Senior Management Specialist/Management Specialist

Senior Analyst/Programmer

Cost Analyst

Senior Program Budget Analyst/Program Budget Analyst

Senior Equipment Specialist/Equipment Specialist

Senior Technical Writer/Editor/Technical Writer/Editor

Technical Illustrator

LRC OMNIBUS SUPPORT SERVICES LABOR CATEGORIES (Continued)

WEAPON SYSTEM SUPPORT

Electronic Publishing Specialist

Word Processor/Data Entry Operator

EMI/EMC Technician

Quality Assurance Specialist

Standardization Specialist

Senior Configuration Mgt Spec/Configuration Mgt Spec

Senior Electronics Technician/Electronics Technician

Technician

Senior Supply Technician/Supply Technician/Supply Clerk

Computer Scientist

Senior Computer Programmer/Computer Programmer

LRC OMNIBUS SUPPORT SERVICES LABOR CATEGORIES (Continued)

WEAPON SYSTEM SUPPORT

Senior Inventory Specialist/Inventory Specialist/Inventory Specialist Assistant

Packaging Specialist

Freight Classification Specialist

Traffic Management Specialist

Senior Research Specialist

Research Specialist

Senior Draftsman/Draftsman

Training Instructor

Administrative Assistant

Theater Coordinator

Field Supervisor

Field Monitor

Roving Field Monitor

Statistician

Data/Project Qual Ctl Spec

Photographer

Clerical

LRC OMNIBUS SUPPORT SERVICES READINESS

- Total Package Fielding (TPF)
- New Equipment Training (NET)



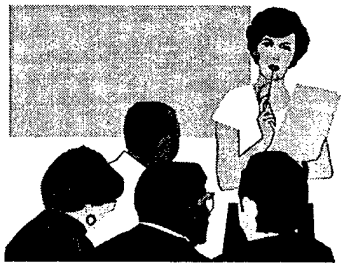
- Electronic Sustainment Support Centers (ESSCs)

LRC OMNIBUS SUPPORT SERVICES LABOR CATEGORIES (Continued)

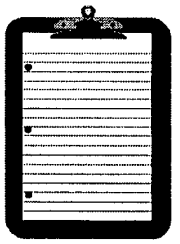
READINESS SUPPORT

Project Supervisor
Senior Log Mgmt Spec
Log Mgmt Spec
Sup Sys Analyst
Programmer
Jr. Sup Tech
Sr. Sup Tech
Illustrator
Sr. Gen Sup Spec
Electronics Tech/Maint Jr.
General Supply Specialist
Program Analyst
Supv Equipm Spec
Equip Spec Elec
Jr. Instructor
Sr. Instructor
Electronics Tech/Maint III
Electrical Engineer

LRC OMNIBUS SUPPORT SERVICES PROGRAM STATUS



- Acquisition plan in approval cycle
- SOW being prepared
- Evaluation plan being prepared
- Sample tasks being created
- Acquisition requirements package preparation in process

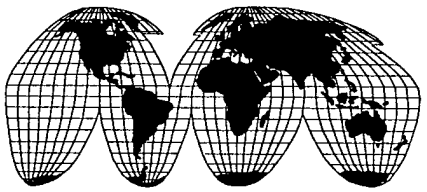


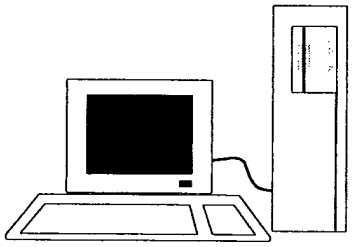
- Sections L & M being prepared
- Draft solicitation/SOW on the web - 4QTR - FY 98
- Solicitation to be issued 1QTR - FY 99

LRC OMNIBUS SUPPORT SERVICES PROGRAM REQUIREMENTS

- All contractor employees must obtain and maintain an appropriate security clearance commensurate with the level of classified materiel to which access is required.

- May require top secret clearance and controlled cryptographic item access





LRC OMNIBUS SUPPORT SERVICES CONTRACT OPPORTUNITIES

TITLE: **LRC Omnibus Support Services**

OBJECTIVE: **Weapon System oriented support**

PROPOSED CONTRACT TYPE: **100% Small Business Set Aside, Multiple Awards (2), at least one 8(A) award; Best Value; ID/IQ; T&M DOs; One Base Year, Four One Year Options**

KEY MILESTONES:

Projected RFP	**1QTR - FY99**
Projected Award	**3QTR - FY99**



ESTIMATED VALUE:

$ 400M - $500M (4000 - 5500 Manyears)

TECHNICAL POC: **RICHARD RICCELLI (732) 532-8911**

CONTRACT POC: **DENNIS ALLEN (732) 532-2197**

LRC OMNIBUS SUPPORT SERVICES CONTRACT OPPORTUNITIES

TITLE: **LRC Omnibus Support Services**

OBJECTIVE: **Readiness oriented support**

PROPOSED CONTRACT TYPE: **8A Set Aside; Single Award; Best Value; T&M DOs; One Base Year, Four One Year Options**

KEY MILESTONES:

Projected RFP	**1QTR - FY99**
Projected Award	**3QTR - FY99**



ESTIMATED VALUE:

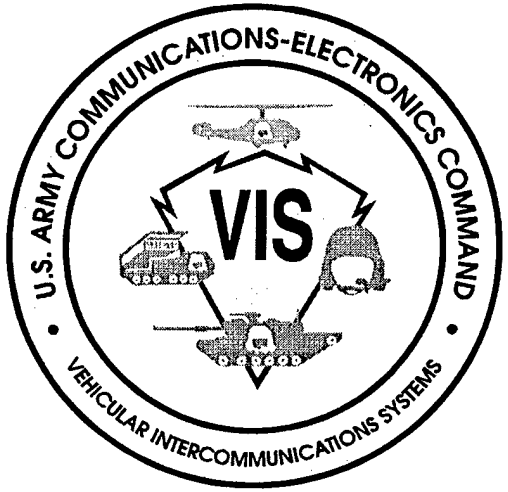
$ 200M - $300M (2000 - 3000 Manyears)

TECHNICAL POC: **CATHERINE SPALDING (732) 532-1256**

CONTRACT POC: **JANE CALICARI (732) 532-2819**

NOTES

AN/VIC-3 Solicitation



CHARLES PENTA
Chief
Vehicular Intercom System (VIS)
Special Project Office (SPO)
LRC

Unclassified

AMSEL-LC-COM-R-VI 29 Apr 98

POINT PAPER

SUBJECT: APBI Brief

OBJECTIVE: The AN/VIC-3 (VIS, Vehicular Intercom System) solicitation is an acquisition of major component parts and sustainment parts of the VIS. It will be accomplished by a 5-year range quantity, multi-year, split-awards contract. Solicitation release will be in Dec 98.

FACTS:

* The VIS program was transitioned to the VIS SPO, LRC in Sep 1996.

* The VIS is an intercom and radio access communications system, primarily for crewmembers of combat vehicles. It consists of a Master Control Station (MCS), Full Function Crew Station (FFCS), Monitor Only Station (MOS), Radio Interface Terminal (RIT), Active Noise Reduction (ANR) headsets, and power signal cables.

* The Major component parts such as the MCS, FFCS, RIT and various headsets will be procured and accepted using performance specifications.

* First Article Testing is required and may be waived for the original manufacturers.

* Milestones listed below reflect the planned schedule for the AN/VIC-3 solicitation. All schedules are planned to accomplish the final goal of setting up a contract to provide sustainment parts and initial fielding spares.

** Draft Solicitation Release	4TH QTR – FY98
** Solicitation Release	1ST QTR – FY99
** Proposal and Bid Samples	2ND QTR – FY99
** Contract Award	3RD QTR – FY99
** Option Award	3RD QTR – FY2004

* This will be a Firm-Fixed Price, Range quantity procurement. It will be a Best Value evaluation with possible split awards. The contract is planned to run five years for ordering with five option years, each which can be exercised independently. The estimated value will be $ 32-67M for sustainment and $ 16-40M for new systems.

BRIEFER: Mr. Charles Penta, Branch Chief, VIS SPO, Tactical Radio Division, COMM Directorate, LRC. AMSEL-LC-COM-R-VI, (732) 532-9204.

MARY F. RUSCAVAGE
DIRECTOR COMMUNICATIONS
(732) 532-5762

AN/VIC-3(V)
VEHICULAR INTERCOMMUNICATIONS SYSTEM (VIS)
and Associated Headsets



AN/VIC-3 Solicitation System Description

The AN/VIC-3(V), Vehicular Intercommunication System (VIS), is designed to provide the commander and crew members of the Army's fleet of combat and combat service support vehicles with a high reliability, noise free digital intercom and radio access communication system.

AN/VIC-3 Solicitation

The Major components in the AN/VIC-3 are:

- **Master Control Station (MCS) - allows for programming of radios to crew members, radio listening silence, connection to field phone or other vehicle, and connection to two combat radios**
- **Full Function Crew Station (FFCS) - provides volume adjustment and radio selection**
- **Radio Interface Terminal (RIT) - used for applications where three to six radio capability is required**
- **Monitor Only Station (MOS) - provides volume adjustment only**
- **Loudspeaker (LS) - receives only analog audio and enables crewmembers, without headsets to monitor intercom and /or radio traffic.**

AN/VIC-3 Solicitation

- Various Headsets, such as
  - H-374 Combat Vehicle Crew (Passive Noise Reduction, PNR/Active Noise Reduction, ANR)
  - H-364 COMMAND & CONTROL (with unique microphone)
  - H-365 Communication Aural Protective System, CAPS (PNR/ANR TYPE I, no microphone)
  - H-366 CAPS (PNR/ANR TYPE II, with M-172 microphone)
  - H-370 PM SOLDIER ACAPS (PNR TYPE B, with M-173 microphone

AN/VIC-3 Solicitation System and Sustainment Cost

- **Existing contract will have provided approximately 12,000 systems to date.**
- **Over a 8 - 10 year period, this solicitation and contract(s) will provide an additional 3,000 systems.**
- **Sustainment cost from this solicitation and contract(s) is anticipated to total approximately $ 5-7 million annually.**
- **The production deliveries from this contract will coincide with the end of deliveries from the existing contract.**

AN/VIC-3 Solicitation
Program Definition

- A 5 year range quantity, Best Value award(s), firm fixed price requirement type contract(s) (NDI)
- In addition, 5 option years if approval is obtained, each of which can be exercised independently
- Major components and sustainment items (spares) will be procured
- Separate awards (Split Awards) of individual Contract Line Item (CLIN) will be considered
- First Production to commence in FY 2001

AN/VIC-3 Solicitation Program Requirement

- First Article Testing is required for the major components
- First Article Testing Waiver may be provided to previous manufacturers
- The delivered products must meet the requirements cited in the performance specifications
- Performance specifications for Major Components
- Production drawings may be provided for information only
- Interchangeability with existing system will be a firm contractual requirement and demonstrated during proposal evaluation

AN/VIC-3 Solicitation Milestones

- Industry review of performance specs - June 98
- Comments due - Aug 98
- Industry review of Draft solicitation - Sept 98
- Solicitation release - Dec 98
- Proposal and Bid Samples - Jan 99
- Five Year Contract Award - Apr 99
- Single year Option Award - Apr 04

AN/VIC-3 Solicitation
Contract Opportunity

TITLE: **AN/VIC-3 Solicitation**

OBJECTIVE: **Provide a stable production base for additional fielding and sustainment**

PROPOSED CONTRACT TYPE: **Firm Fixed Price, Range quantities, Separate awards (Split Awards) of individual Contract Line Item (CLIN) will be considered**

KEY MILESTONES: **See previous slide**

ESTIMATED VALUE: **$ 32 - $ 67 Million dollars for sustainment (FY01-FY09), $ 16 - $ 40 Million dollars for new systems (FY01-FY09)**

TECH POC/TEL #: **CHIT LEE (732) 532-9622**

CONTRACT POC/TEL #: **RACHEL BOGNER (732) 427-1529**

NOTES



COMMUNICATIONS-ELECTRONICS RECHARGEABLE BATTERY ACQUISITION



RONALD CIALINO

CHIEF

LRC POWER SOURCES TEAM

UNCLASSIFIED

AMSEL-LC-BT

26 MARCH 1998

POINT PAPER

SUBJECT: The goal of the Rechargeable Battery Omnibus is to provide state of the art rechargeable communications-electronics batteries and family chargers. These batteries and chargers will support the Army's continuing transition away from non-rechargeable batteries, as well as requirements from the USMC, Navy, Air Force and other DoD agencies.

FACTS:

- The following battery configurations are expected to be included in this acquisition; BB-X90, BB-2847, BB-X88, BB-X16, BB-503, BB-X800 and BB-X600.

- A family of battery charger configurations will be include. Members of this family include chargers for use in rear echelon (i.e. bench top) locations, vehicular mounted (ruggedized) and manportable (ruggedized and for use in remote locations)

- All batteries and chargers must be compatible with items currently in the CECOM inventory

- Performance specifications will be utilized for all items

- Milestones listed below are the current best estimates:

  - Release draft specification — 4th. QTR - FY98
  - Release draft solicitation — 1st. QTR - FY99
  - Release RFP — 2nd. QTR - FY99
  - Contract Award — 1st. QTR - FY00

- This will be a Firm-Fixed-Price, Indefinite Delivery/Indefinite Quantity procurement. It will be a Best Value evaluation with the potential for teaming. The contract is planned to cover a 5 year ordering period, and Direct Vendor Delivery is projected.

BRIEFER: Mr. Ronald Cialino. Chief, C4ILRC Power Sources Team, AMSEL-LC-BT, (732) 532-2411.

Product Manager
Donald Brockel
Power Sources Team
(732) 532-4948

PROGRAM/SYSTEM DESCRIPTION

- **Acquisition of a family of rechargeable batteries used in portable electronics equipment**
  - **Nickel-Cadmium, Nickel Metal Hydride, Lithium Ion**
- **Universal Battery Charger**
- **Interface Adapters/Cables**

PROGRAM/SYSTEM

Battery Type	Application
BB-X90	SINCGARS
BB-X88	PRC-126 RADIO
BB-X16	MELIOS
BB-503	TAS-5
BB-2847	Thermal Weapon Sight LANDWARRIOR
BB-X800	PLGR
BB-X600	PSC-3

PROGRAM/SYSTEM

- **Battery Charger:**
  - **Compatible with existing PP-8444A**
  - **Charges 2 or more batteries simultaneously**
  - **Operates on 110/220 VAC; 24 VDC**
  - **Capable of charging new batteries through software update**

PROGRAM/SYSTEM



STATUS OF PROGRAM/SYSTEM

- **Rechargeables:**
  - **BB-X800 and BB-X600 under development**
  - **Other batteries and charger on production contract through FY99**

PROGRAM/SYSTEM REQUIREMENTS

Battery Type	Yearly Requirements
BB-X90	5922
BB-X88	1845
BB-X16	3321
BB-503	1548
BB-2847	720
BB-X800	TBD
BB-X600	TBD
Charger	207

CONTRACT OPPORTUNITIES

TITLE: **Rechargeable Battery Omnibus**

OBJECTIVE: **Obtain state of the art batteries and chargers**

PROPOSED CONTRACT TYPE: **5 Year IDIQ, FFP, Best Value**

KEY MILESTONES:

Release Draft Specification	**4QFY98**
Release Draft Solicitation	**1QFY99**
Release RFP	**2QFY99**
Contract Award	**1QFY00**

ESTIMATED VALUE: **$12-20M**

TECH POC/TEL #: **DON BROCKEL (732) 532-4948**

CONTRACT POC/TEL #: **BOB REAGAN (732) 532-1983**

NOTES

CECOM

AIRCRAFT BATTERY ACQUISITION

RONALD CIALINO

CHIEF

LRC POWER SOURCES TEAM

UNCLASSIFIED

AMSEL-LC-BT

26 MARCH 1998

POINT PAPER

SUBJECT: The Aircraft Battery Omnibus is an acquisition to for the replenishment of the following aviation batteries items: BB-432B/A, BB-664 batteries and harnesses and BB-716 cells.

FACTS:

- The following items are expected to be included in this acquisition; BB-432B/A, BB-664 battery, BB-664 harness, and cells for the BB-716

- All batteries and chargers must be compatible with items currently in the CECOM inventory

- Performance specifications will be utilized for all items

- Milestones listed below are the current best estimates:

  - Release solicitation 3QFY98
  - Release RFP 3QFY98
  - Contract Award 4QFY98

- This will be a Firm-Fixed-Price, Indefinite Delivery/Indefinite Quantity procurement.

BRIEFER: Mr. Ronald Cialino. Chief, C4ILRC Power Sources Team, AMSEL-LC-BT, (732) 532-2411.

Product Manager
Deborah Carpenter
Power Sources Team
(732) 532-8815

PROGRAM/SYSTEM DESCRIPTION

- All batteries/cells are vented Nickel-Cadmium design
- Cells are packages of 19 (except BB-716 low capacity cell)
- One performance specification will define all items

PROGRAM/SYSTEM

- **Aircraft Batteries and Components:**
  - **BB-432B/A Battery and Cells (CH-47D Chinook)**
  - **BB-664/A Harness (AH-64 Apache)**
  - **BB-476/A Battery (OH-58A/B/C KIOWA)**
  - **BB-716/A Cells (UH-60 Blackhawk)**
  - **BB-649 Battery and Cells (AH-1 Cobra)**

STATUS OF PROGRAM/SYSTEM

- **NO present production contracts in place for these items**

- **Management scheduled to transfer to Defense Logistics Agency (DLA) in Sep 99 (Apache items to Prime Vendor Support in Sep 98)**
  - **CECOM to fill supply pipeline**
  - **Possible transfer of contract to DLA**

PROGRAM/SYSTEM REQUIREMENTS

Item	Minimum Requirements
BB-599 Cells	90
BB-432B Battery	235
BB-664 Harness	280
BB-716 Reg Cap Cells	2205
BB-716 Lo Cap Cells	384
BB-476 Battery	85
BB-648 Cell	84
BB-649 Battery	41

CONTRACT OPPORTUNITIES

TITLE: **Aircraft Battery Omnibus**

OBJECTIVE: **Replenishment of BB-432B/A, BB-664 Harness, BB-476/A, BB-716/A Cells**

PROPOSED CONTRACT TYPE: **3 Year IDIQ, FFP**

KEY MILESTONES:

Release Draft Specification	**3QFY98**
Release RFP	**4QFY98**
Contract Award	**1QFY99**

ESTIMATED VALUE: **$1-2 M**

TECH POC/TEL #: **RICH SCARINZI (732) 532-1925**

CONTRACT POC/TEL #: **BOB REAGAN (732) 532-1983**

NOTES

IMPROVED ENVIRONMENTAL CONTROL UNITS (IECU)

CHARLES W. THOMPSON

CHIEF, GROUND SUPPORT ENVIRONMENTAL DIVISION

CECOM
LOGISTICS READINESS CENTER
CCS/AVIONICS DIRECTORATE

UNCLASSIFIED

SELIM-LC-CCS-G 23 Mar 98

POINT PAPER

SUBJECT: Army Improved Environmental Control Unit (IECU) Procurement

OBJECTIVE: The IECU acquisition replaces the standard family of environmental control units with an improved version that meets statutory and policy guideline for the elimination of Ozone Depleting Contaminant (ODC).

FACTS:

1. The army has over 9,500 authorized environmental control units deployed worldwide. The army standard family of environmental control units is comprised of 8 configurations that range in capacity from 6,000 BTUH to 60,000 BTUH. These units rely on R-22 Refrigerant for operation which is a Class II ODC. There is no known zero ozone depleting refrigerant that can replace R-22 that is compatible with army's environmental control units due to different temperature, lubrication and compression characteristics of the current air conditioner design.

2 DOD policy for environmental control activities is derived from various national laws and international agreements. AR 200-1, Environmental Protection and Enhancement, identifies the requirement to "develop, fund, implement, and m intain plans to eliminate procurement, use, and emissions of Class II ODCs". Although no deadline is offered in the regulation for completion of the actions statutory restrictions on production of Class II ODCs will go into effect on January 1, 2010 and a statutory ban on production and consumption goes into effect on January 1, 2020. An additional impact is contained in the Final Governing Standards for Germany which accelerates restrictions by not allowing introduction into Germany of products containing Class II ODCs that are manufactured after 1 January 2000.

3. In a February 1994 Operational Requirements Document TRADOC identified the need for an Improved Environmental Control Unit containing zero ODCs. CECOM has identified in the current POM build the funding necessary to acquire improved environmental control units over the normal attrition cycle of the existing standard family of environmental control units.

4. A best value contract award for evaluation prototypes is planned for 1QFY00. Production quantities will be awarded in 1QFY02. A long term ID/IQ contract is planned for production quantities. The total value of this contract opportunity is $150M - $170M.

5. BRIEFER: Mr. Charles W. Thompson, Chief, Ground Environmental Support Division, AMSEL-LC-CCS-G, 703/704-2046.

REVIEWED/APPROVED BY:
MARTIN J. BURGER
Director, CECOM Command and
Control Systems / Avionics

IECU

1967 DA Env. Control Policy Memorandum

1986 Technology Insertion

1987 Montreal Protocol

1990 Clean Air Act Amendments

1992 Final Governing Standards

1994 Operational Req. Document

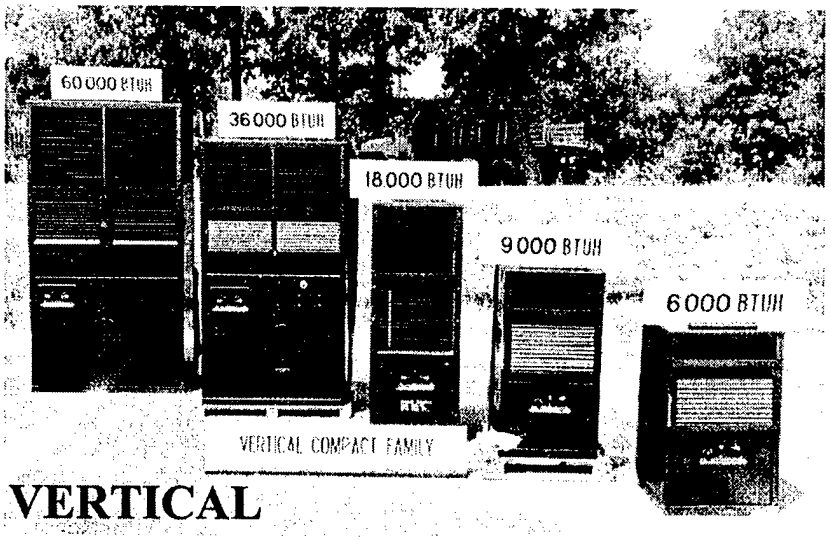
1997 AR 200-1 Env. Protection & Enhancement

2000 Program Initiation

2010 Class II ODC Freeze

2020 Class II ODC Ban

IECU

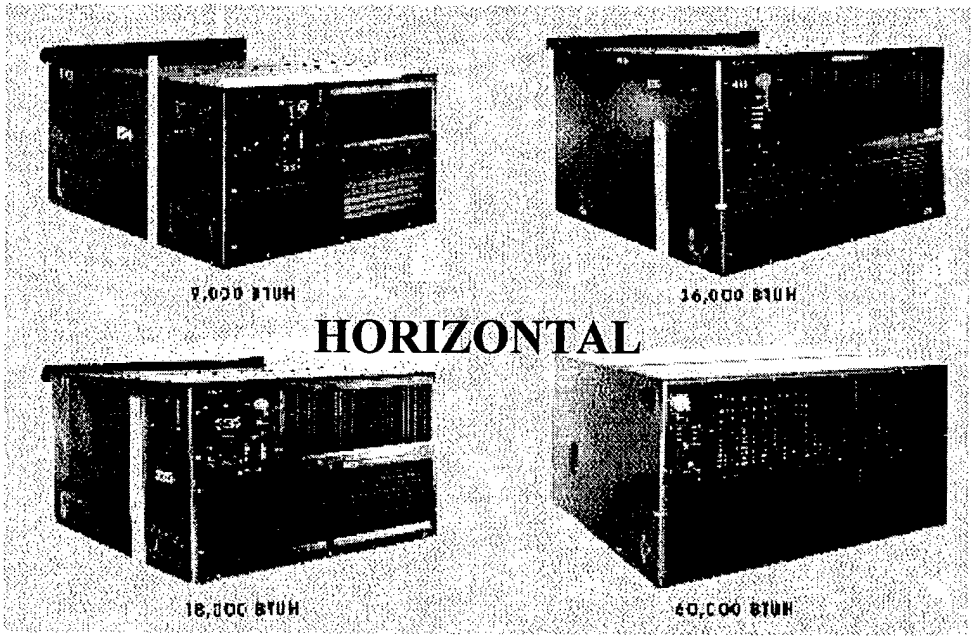


VERTICAL

CHARACTERISTICS

- Horizontal & Vertical Configurations
- 9, 18, 36, & 60K BTUH cooling capacity
- 7, 14, 31, & 47K BTUH heating capacity

IECU



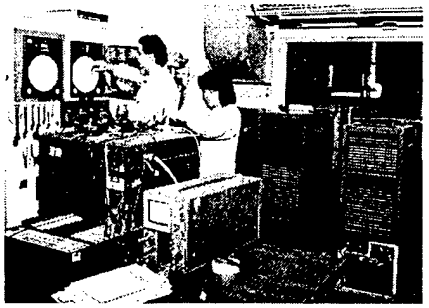
CAPABILITY IMPROVEMENTS

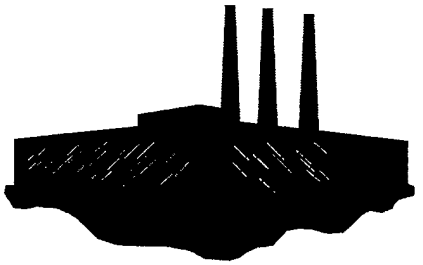
- Multiple Power Input
  (One electrical version per size)
- Reduced Noise (65 Vs. 74 dBA)
- Improved Reliability (2300 Vs. 800 Hr)
- Operates from -50° to 125°F ambient temp.

IECU

ORD

DEVELOPMENT



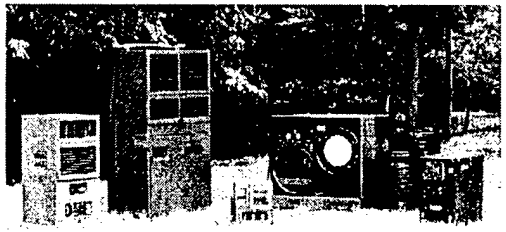


INDUSTRY



LOW RATE
INITIAL
PRODUCTION

STD. SETS



FULL RATE
PRODUCTION

Power As Independent Variable Reviews

Cost As Independent Variable Reviews

REQMTS TEST FIELDING

IECU

BEST VALUE

- Open systems architecture
- Cost As Independent Variable
- Technology opportunities
  - Power efficiencies
  - "Zero" ODC refrigerants
  - Built in diagnostics
  - Multiple power input
- Competitive unit prices
- Logistics supportability
- Minimum production lead times

CONTRACT OPPORTUNITIES

TITLE: **Improved Environmental Control Unit**

OBJECTIVE: **Provide a new family of IECUs compliant with ODC restrictions**

PROPOSED CONTRACT TYPE: **Best Value (Eng Dev) [Select 2] with follow on IDIQ [Downselect to 1] for Production**

KEY MILESTONES:

Draft Specification/SOW	**2QFY99**
Release RFP	**3QFY99**
Initial contract award	**1QFY00**
Downselect (Production)	**1QFY02**

ESTIMATED VALUE: **$150M - $170M over 10 Yrs**

TECH POC/TEL #: **JOHN HEAVEY (703) 704-2149**

CONTRACT POC/TEL #: **STEVEN ALKINO (703) 325-3356**

NOTES

SESSION III

U.S. ARMY
COMMUNICATIONS - ELECTRONICS COMMAND
RESEARCH, DEVELOPMENT & ENGINEERING CENTER



Mr. Eugene Famolari

Associate Technical Director

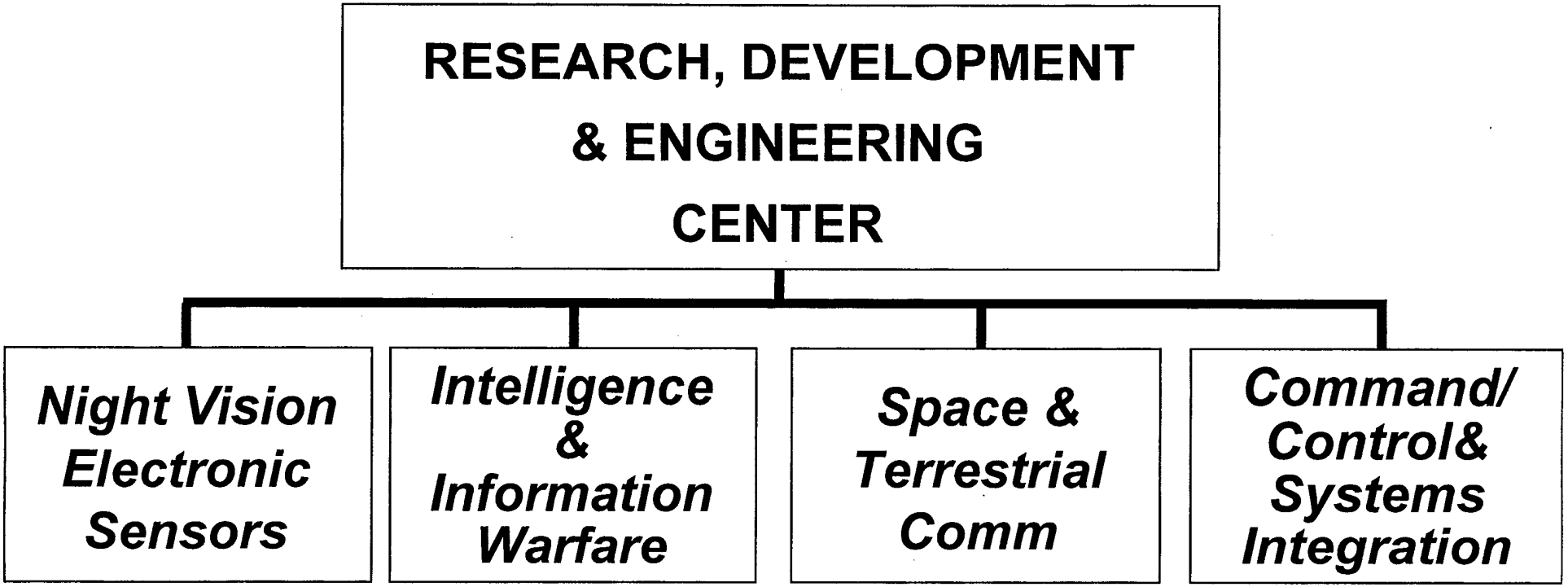
Unclassified

RDEC MISSION

The CECOM Research, Development and Engineering Center, is the AMC Center for research, development and engineering in:

- ★ Communications, Command and Control, Computers and Intelligence (C4I)
- ★ Information Warfare/Information Operations
- ★ Electronic Warfare
- ★ Night Vision and Electro-Optics
- ★ Countersurveillance
- ★ Countermine
- ★ Power Sources and Low Power Electronics

RDEC ORGANIZATION



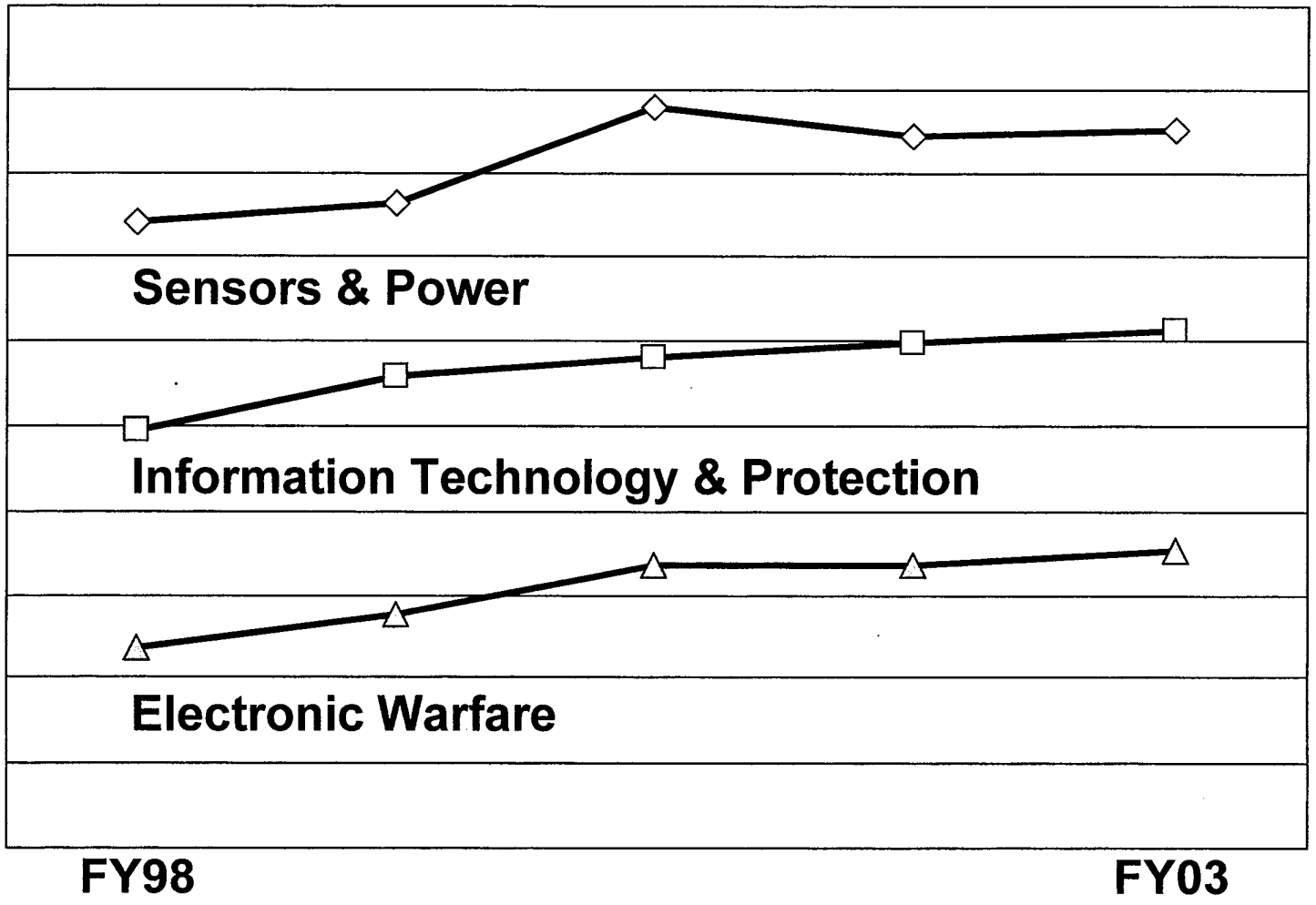
MISSION FOCUS IS:

- **Advanced Technology Generation and Application**
- **Information Technology Architecture**
- **CECOM & Army Systems Engineering**
- **Technical Support to PMs and PEOs**

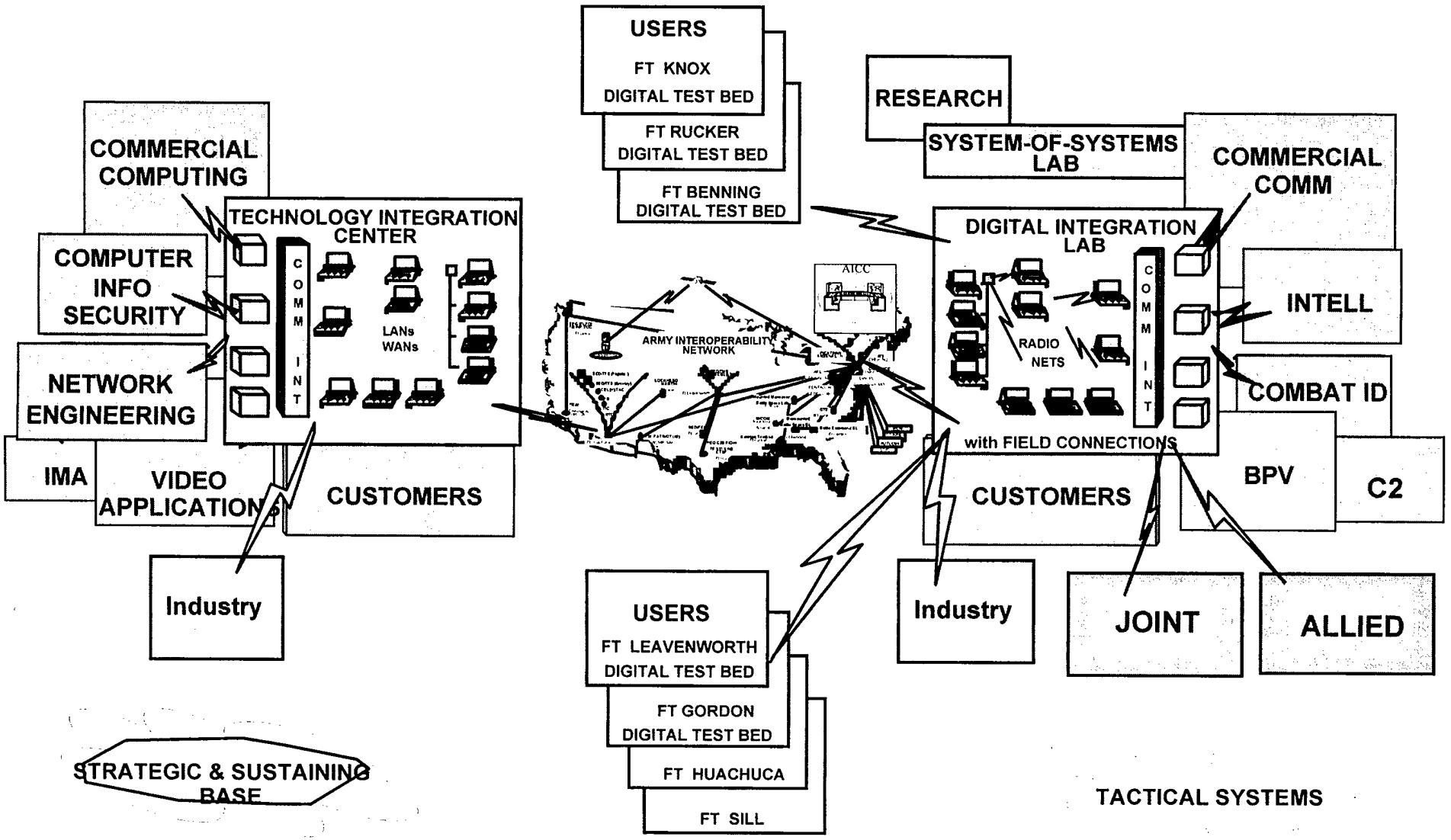
TECHNOLOGY GENERATION and LEVERAGING STRATEGIES

- ***Internal Tech Base***
  - Enabling Technologies
  - Demonstration (ATD, ACTD)
  - Transition and Integration
- ***Alliances for Leverage***
  - DARPA
  - Other Services
  - Industry / Academia
- ***Enabling Facilities***
  - Digital Integrated Lab
  - Technology Integration Center
  - Wireless Interworking Testbed
  - Information Technology Innovation Center
- ***Facilitating Programs***
  - SBIR
  - Independent R&D
  - Dual Use Applications Program

THREE MAJOR AREAS FOR ENABLING TECHNOLOGY (6.2) & DEMONSTRATIONS (6.3)



Digital Integration Lab (DIL) and Technology Integration Center (TIC)



WIRELESS INTERWORKING TESTBED (WIT) / INFORMATION TECHNOLOGY INNOVATION CENTER (ITIC)

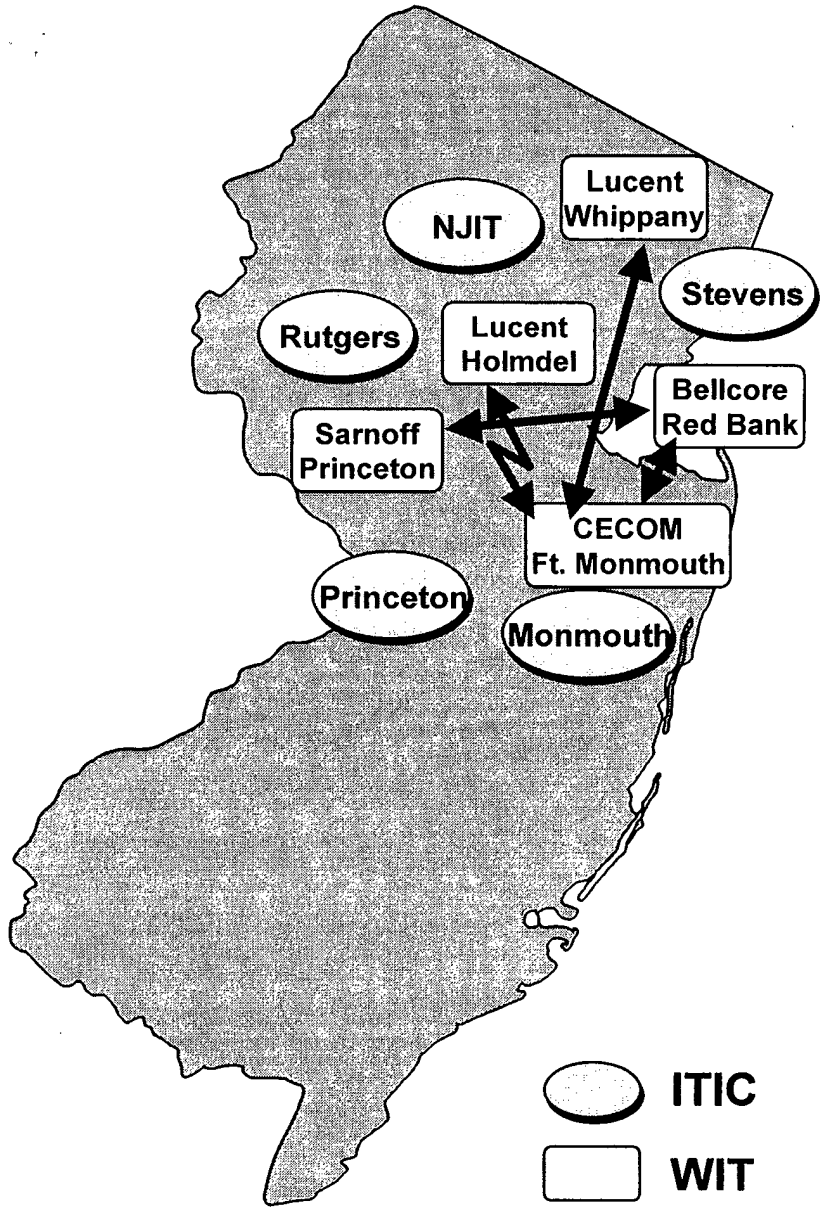
WIT

Interconnected Military/Commercial Laboratories For Dual-Use =

- **Interoperability Assessment**
- **Standards Conformance Testing**
- **Dual-Market Development**
- **Collaborative Efforts**

ITIC

Enables partnering for dual-use information technology ventures; by linking existing N.J.-based government, industry, and university advanced technology centers and small business incubators to the WIT.



TECHNOLOGY OUTREACH CONFERENCE

- When - Mid - September 1998
- Where - Ft. Monmouth Local Area
- Target Audience - Industry & Academia
- Briefers - Army & Academia with "One-to-Many" Sessions
- Objectives
  - Leverage non-army funding
  - Focus on likely DARPA enabling technology for efforts of interest to CECOM
  - Foster collaboration and partnering with industry and academia

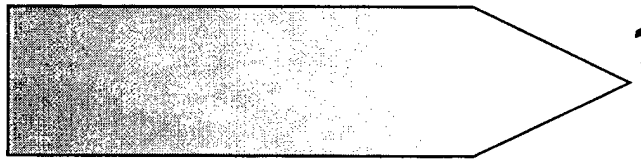
Small Business Innovation Research

- *Annual Total Program - approx $15M*
- *30 Topics for FY99*
  - 10 Sensors
  - 7 Information Processing
  - 7 High Performance Computing & Simulation
  - 5 Power and Directed Energy
  - 1 Microelectronics & Photonics
- *Key Dates*
  - May 1 - Solicitation Pre-Release on Internet
  - July 1 - Solicitation Opens
  - Aug 19 - Solicitation Closes
  - Dec 18 - Contract Award

DUAL USE APPLICATIONS PROGRAM (DUAP)
SCIENCE & TECHNOLOGY INITIATIVE

- Overall program objective is to develop dual use technologies with industry as partner
- Integration and prioritization thru service lead, Joint Dual Use Program Office and DDR&E ⇨ *Service Lead in FY99*
- *Cost Share:* 50% Industry, 25% DUAP Contribution, 25% sponsoring agency
- *Basis for Award:* Quality of Cost Share, Impact on National Defense, Commercial Viability of Technology, Technical and Management approach
- Leverage Results - *FY97: $8.0M* ⇨ *32.0M*
  FY98: $3.2M ⇨ *13.0M*

DUAP 1999 PROGRAM

- **Service Lead with Enabling Technology Program**
- **Substantial percentage of Enabling Technology (6.2) Program directed to Dual-Use S&T:**
  - ***5% in 98***  ***15% in 01 & thereafter***
  - ***$25M in*** ***$76M***
  - **Joint Government/Industry strategy essential to maximize potential of program for mutual benefit**
- **Feedback needed on what works and what doesn't work**
  - **Example: No bidders on FY98 topic "Information Operations"**
  - **Sidebar Session for Industry feedback/suggestions**
- **CECOM Broad Agency Announcement Projected Release Date: October 1998**

BUSINESS OPPORTUNITIES

- ***Sensors and Power***

  (Briefed by Dr. David Heberlein)

  - **Advance Radar Deception & Countermeasures**
  - **Light Weight, Airborne Minefield Deception**
  - **Scatterable Minefield & Munitions Detection**
  - **Low Powered Uncooled IR Sensor**
  - **Low Power Display Components**

- ***Information Technology & Protection Opportunities***

  (Briefed by Mr. Chuck Strimpler)

  - **C2 Protect for the Tactical Internet**
  - **Communication Systems Technology**

NOTES

SENSORS AND POWER OPPORTUNITIES

NVESD

DR. DAVID HEBERLEIN
ACTING DIRECTOR

Night Vision and Electronic Sensors Directorate

Unclassified

28 Apr 1998

POINT PAPER

SUBJECT: APBI – CECOM RDEC Night Vision Electronic Sensors Technology Initiatives

OBJECTIVE: To provide information on CECOM Night Vision Electronic Sensors Directorate's (NVESD's) interest and contract opportunities in the areas of Electro-optics, Countermine, and Protection Suites/Radar.

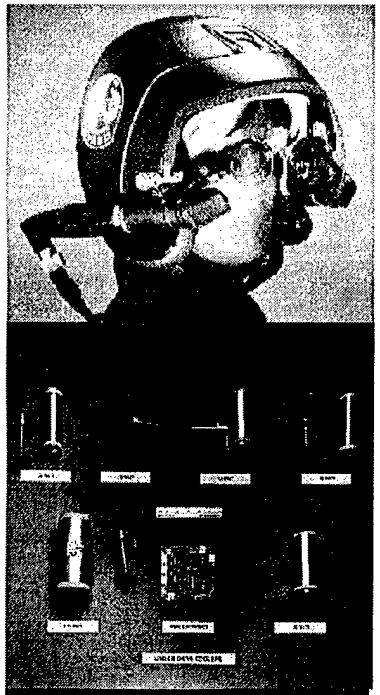
FACTS: NVESD is developing the technologies required for U.S. Forces to see and acquire enemy forces in the most challenging of battlefield conditions and environments; to provide full spectrum situational awareness, protection, targeting and combat ID assist against enemy guided/smart weapon systems; to develop low power high resolution displays; low power uncooled IR technologies; and to develop affordable electro-optical/radar sensors and sensor suites providing improved multi-functional capabilities of existing and new manned/unmanned weapon system platforms for ground, air and individual soldier applications.

Technology efforts included in this briefing are the Advanced Radar and Deception Countermeasures (ARDC), Low Power Display Components, Low Power Uncooled IR Sensors, Lightweight Airborne Minefield Detection (LAMD), and Stand-off Scatterable Mine and Munitions Detection. These efforts are currently in the Department of the Army approval process. The briefing describes the programs that support several NVESD technology areas and provides general time lines for industry involvement and current funding ranges.

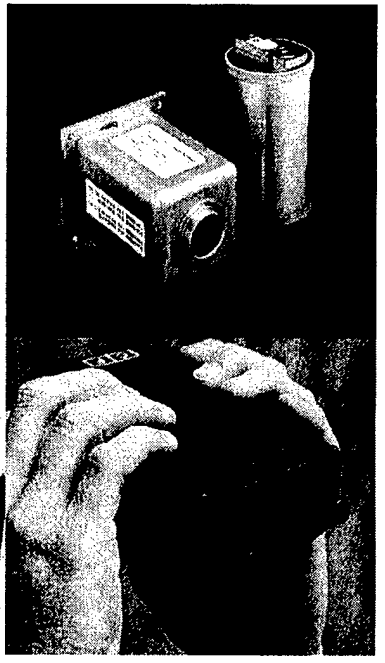
BRIEFER: Dr. David C. Heberlein, Acting Director, NVESD, AMSEL-RD-NV-OD, (703) 704-1040, DSN 654-1040.

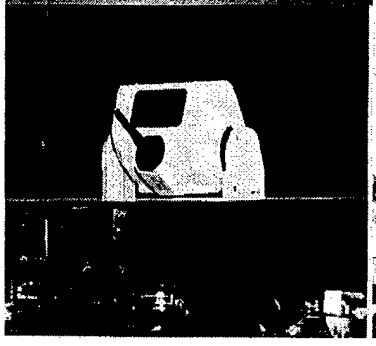
ACTION OFFICER:
Keith Dugas
Technical Planning Branch
(703) 704-1200
DSN 654-1200

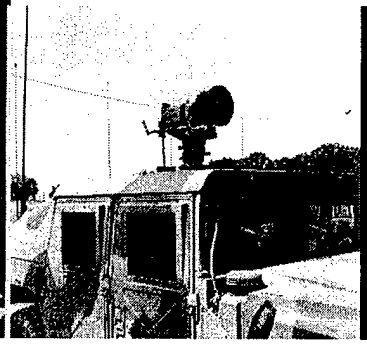
CECOM
Night Vision & Electronic Sensors Directorate

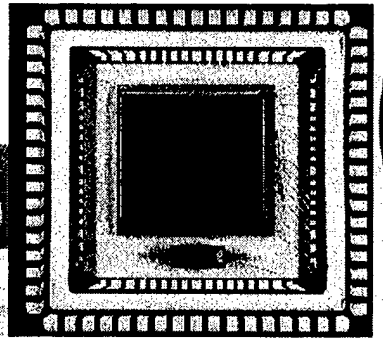


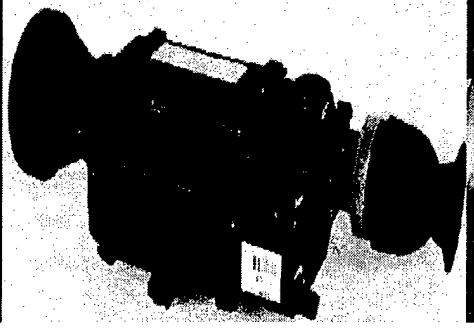




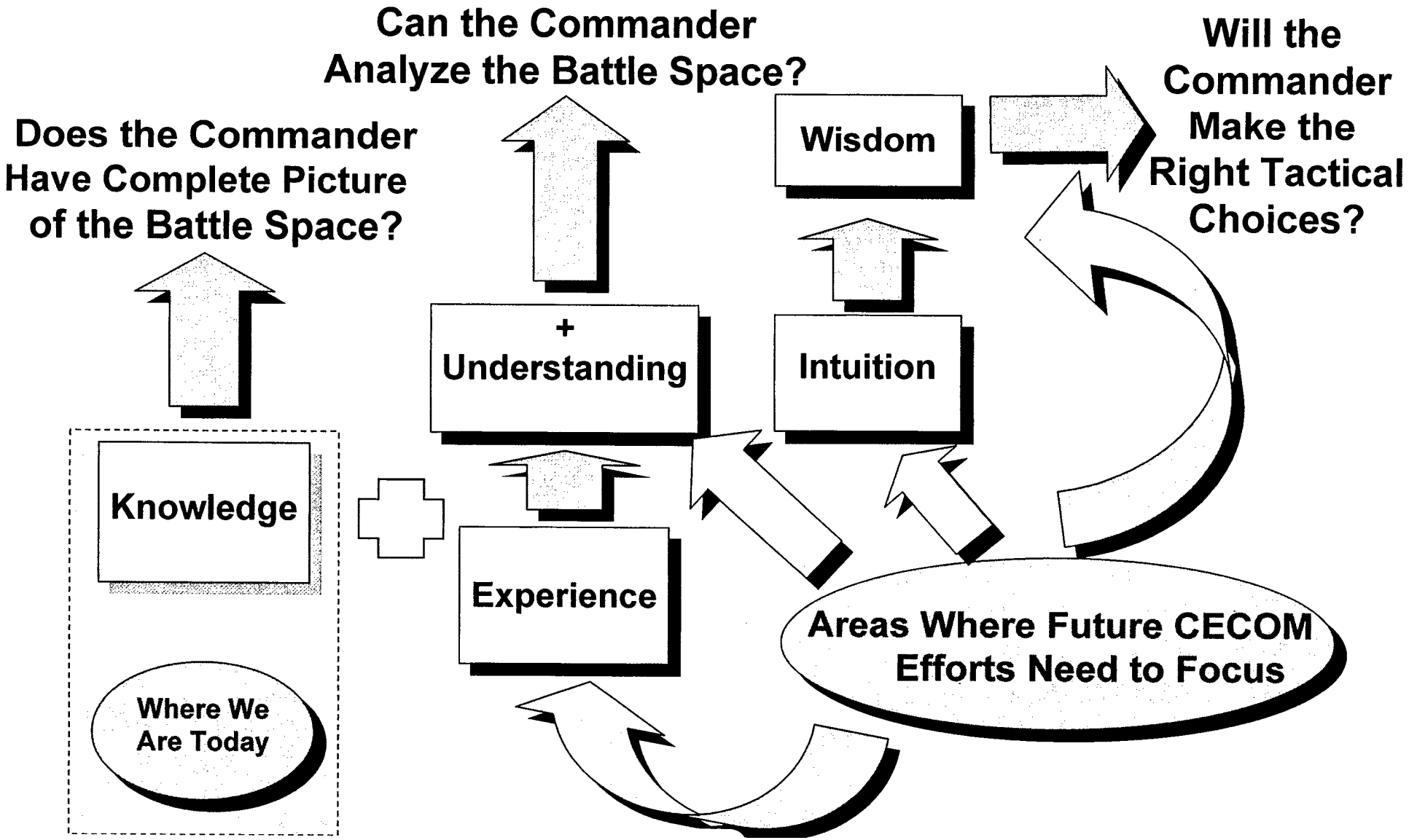




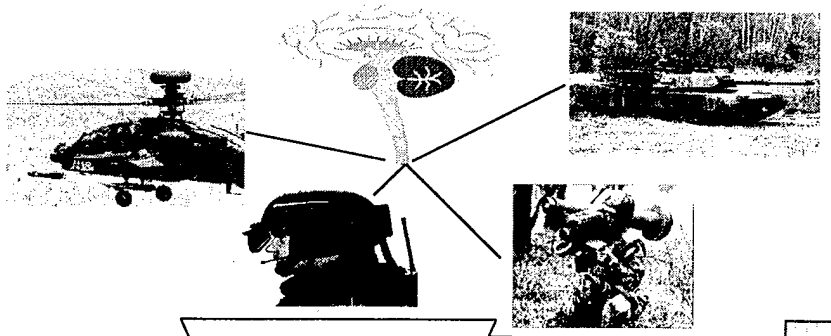




What's After Knowledge?



Battlefield Dominance through Cognitive Warfare



Dominate

Anticipate & Act

- Assessment
- Strategy
- Rules of Engagement

- Intent
- Motivation
- Threat Obj.

Wisdom

Observe & React

- Force Structure
- Axis of Advance
- Geolocation

Understanding + Intuition

- Targets
- Threats
- Locations
- Routes

- Cross Sections
- Locations
- Images
- Indications

Knowledge + Experience

-Training
-Biases
-Instinct

Information + Cognitive/Context

-Lessons Learned
-Historical Perspective

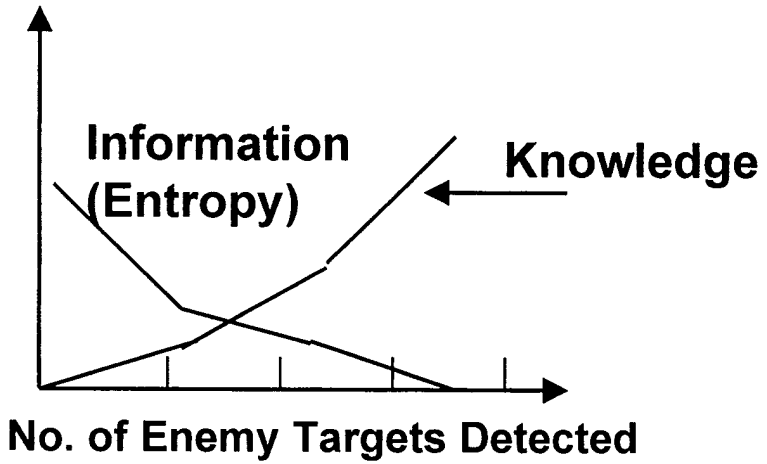
Data + Processing

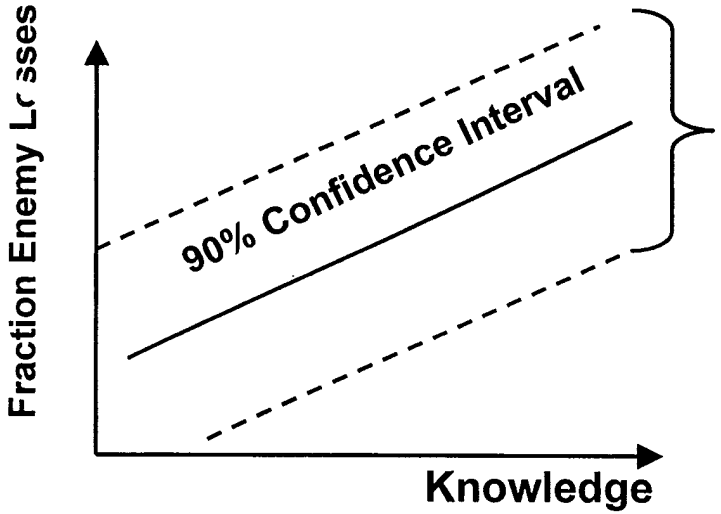
-Relationships
-Connections

-ATR -Signal Proc
-Thresholding -Networking

Sensors

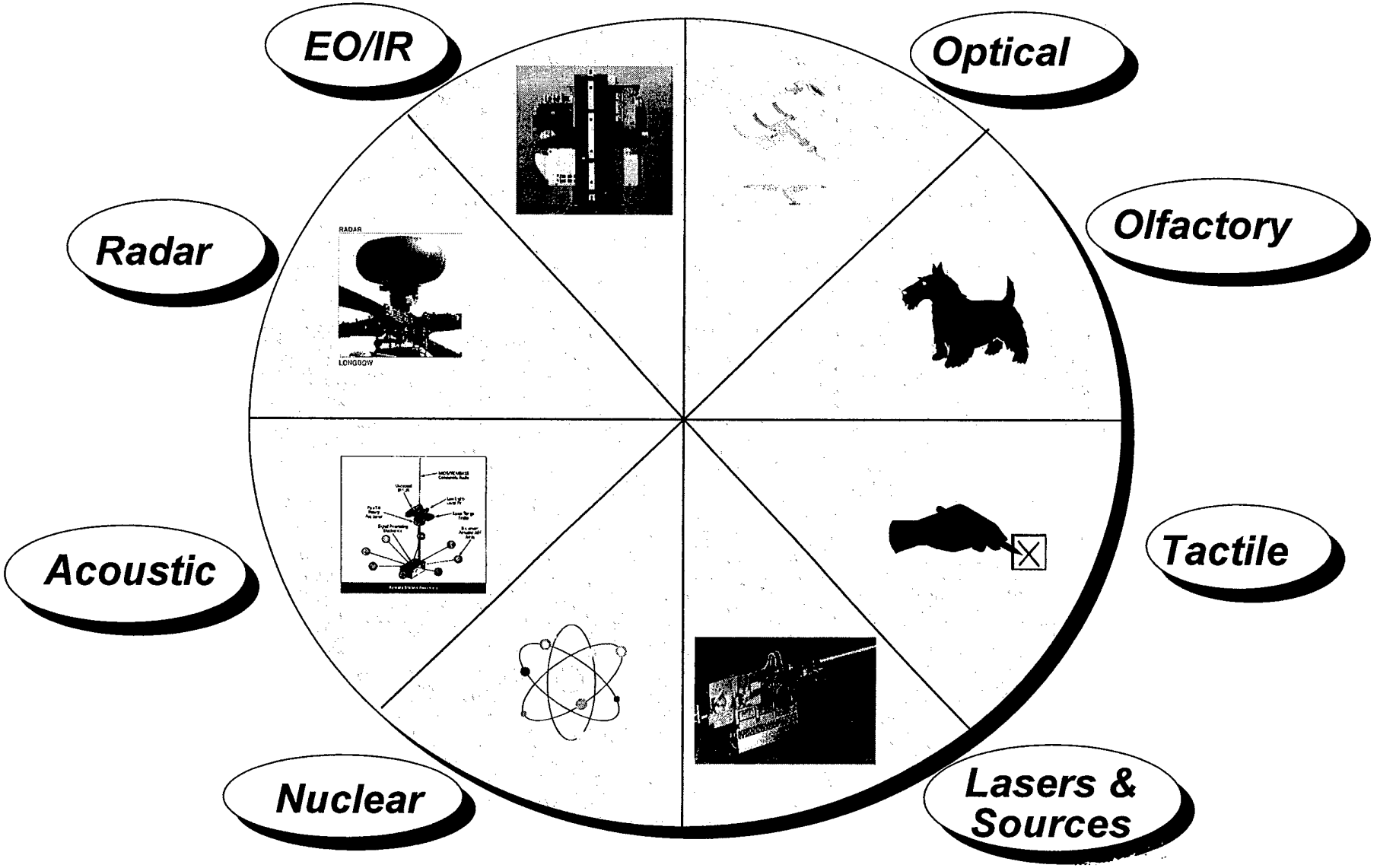
Knowledge & Combat Effectiveness



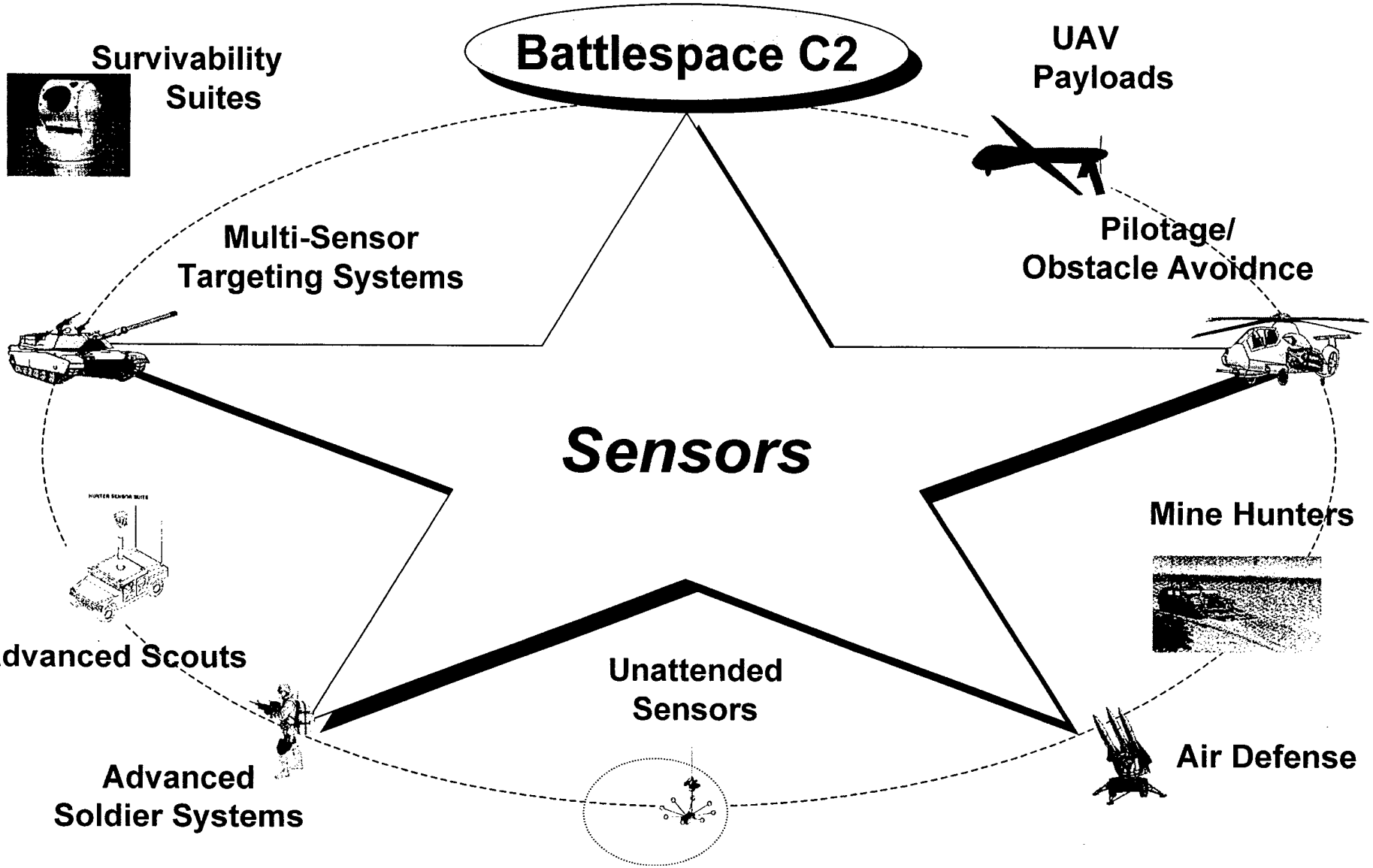


Combat Measures of Effectiveness are Functions of Knowledge

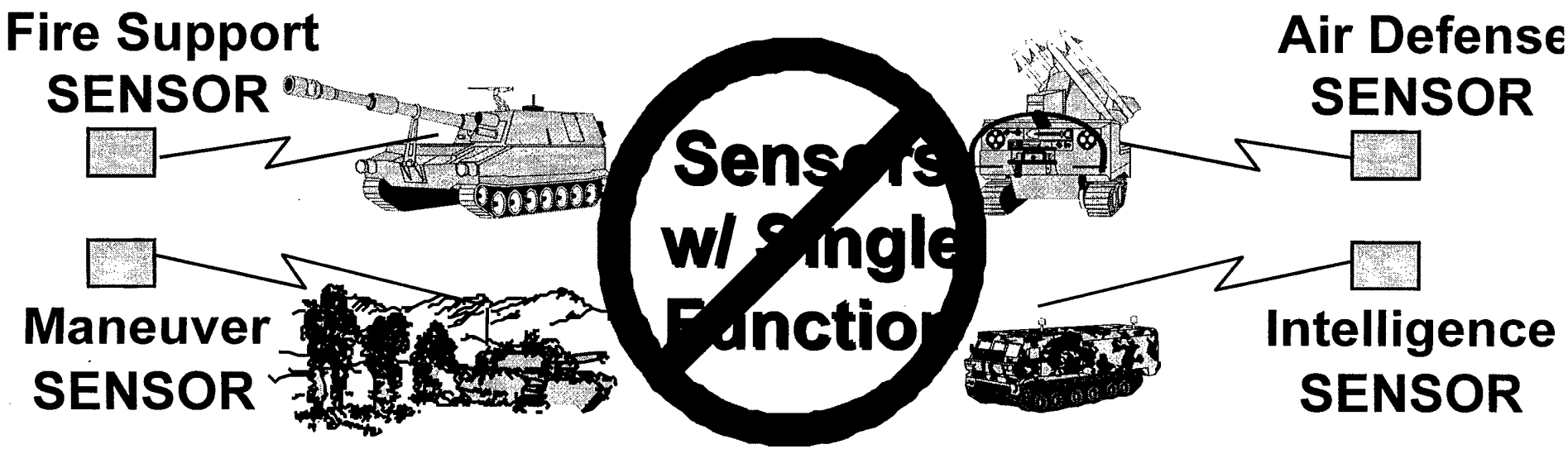
Sensor Modalities



Sensors for the Digital Battlespace



Sensor Utilization

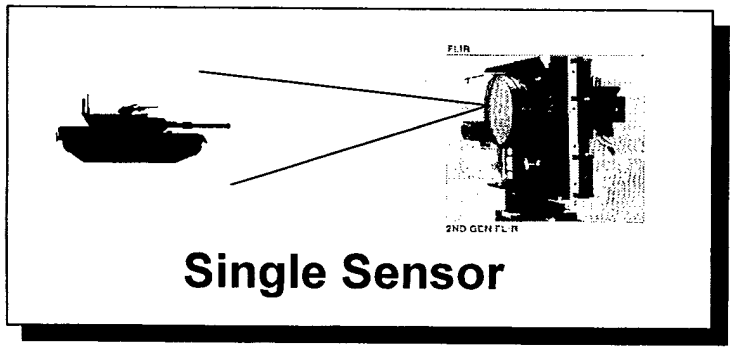


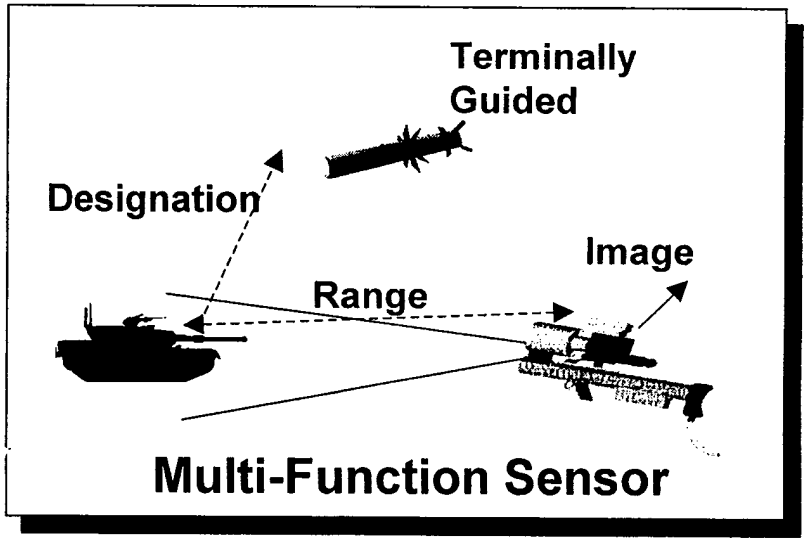
Sensor w/Multiple Function

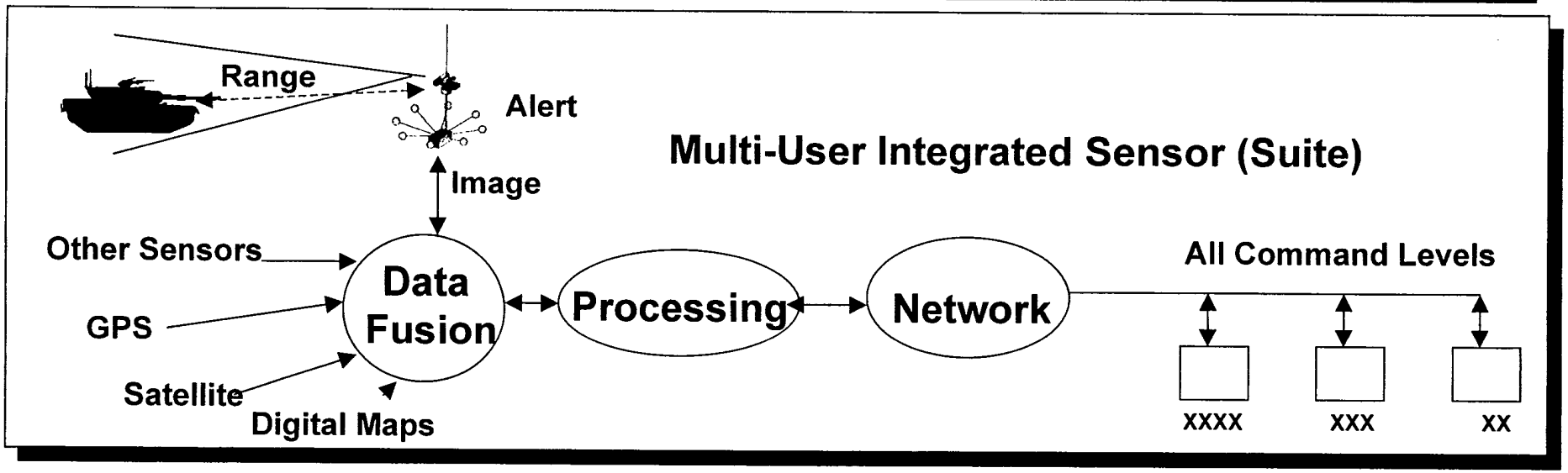
OR

- Targeting
- Intelligence
- Friendly Situation
- Enemy Situation
- Logistics

Evolution of Sensor Concepts

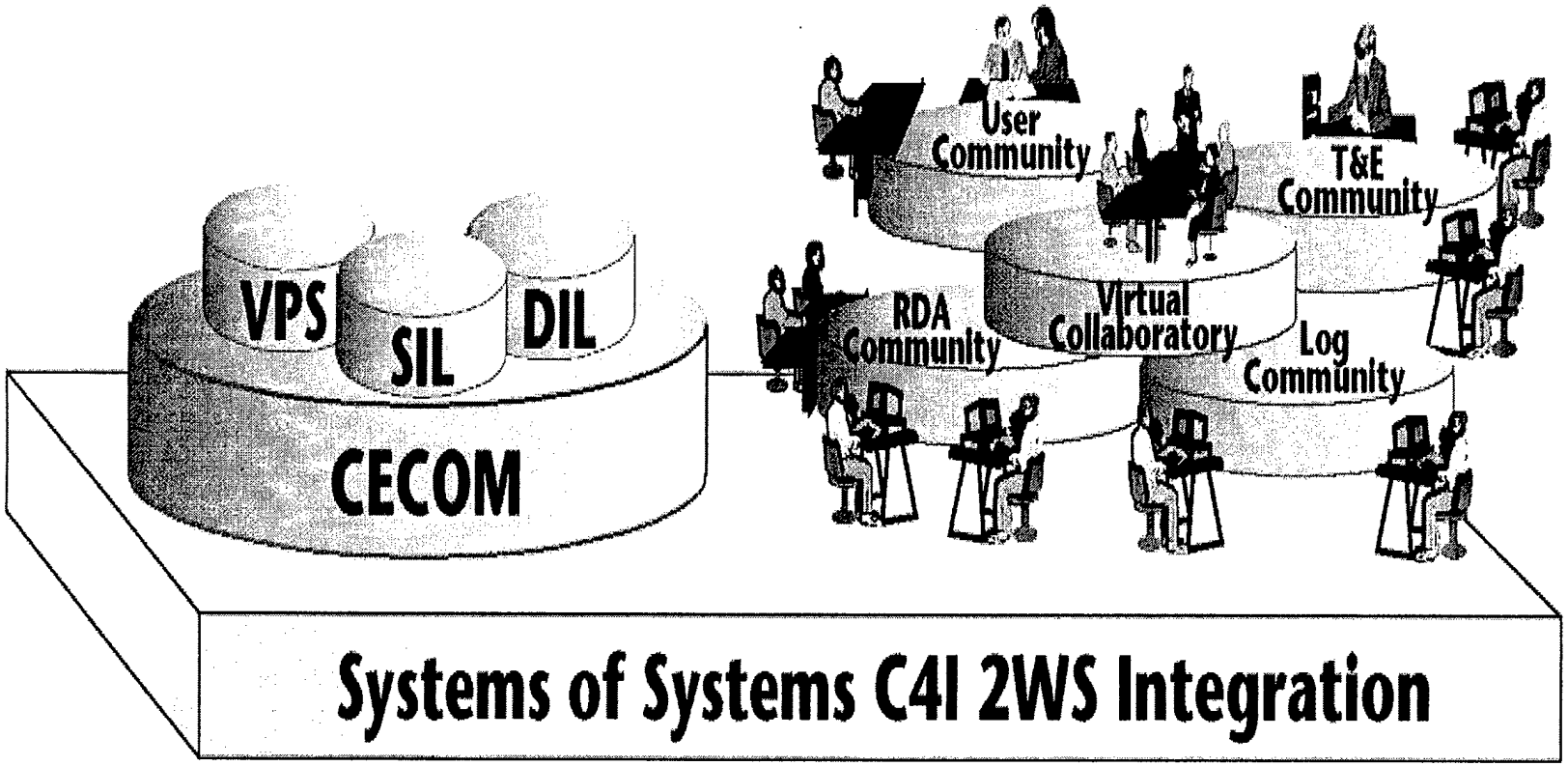






System of Systems Vision

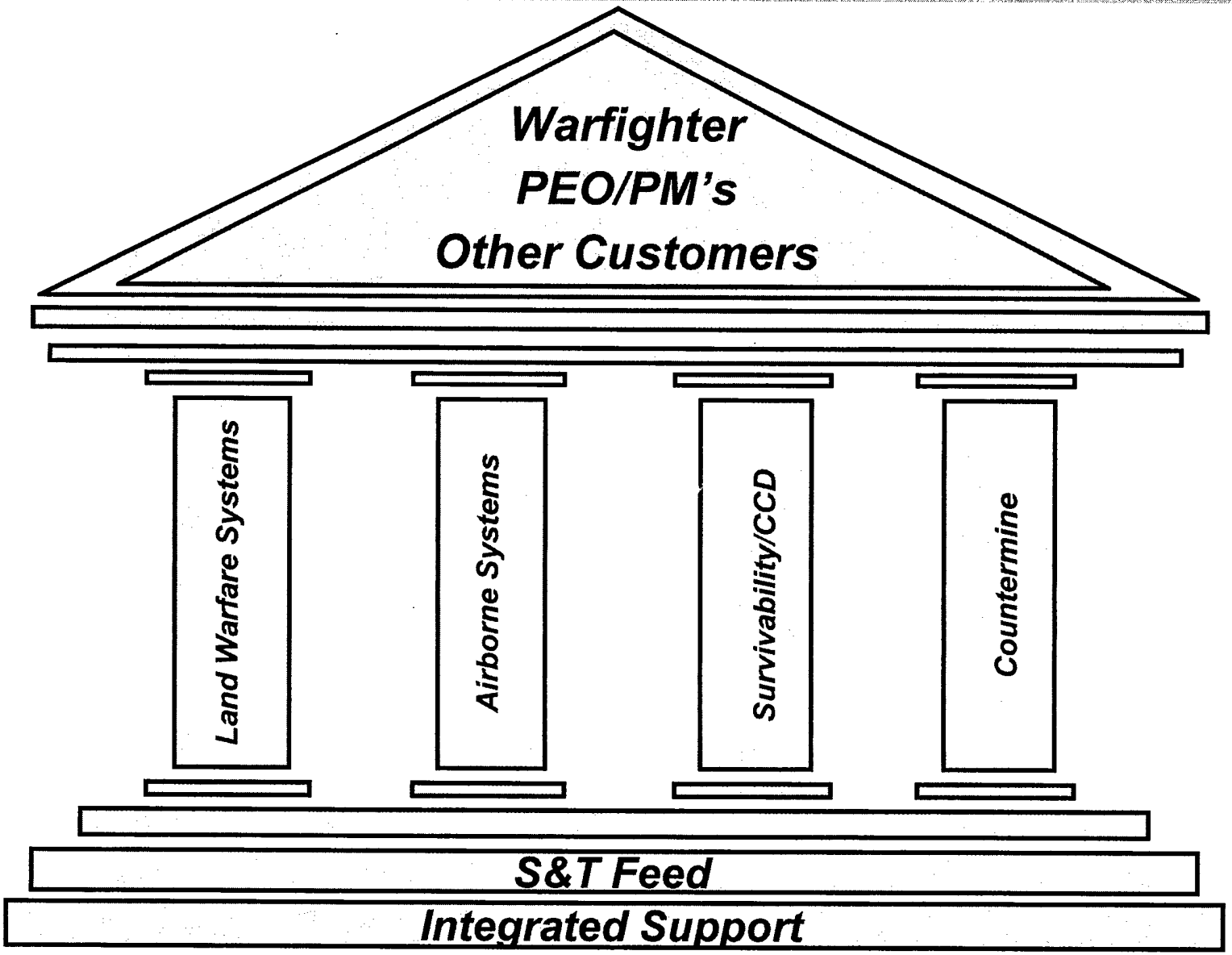
M&S and Collaborative Virtual Prototyping and Project Management Environment



Integrates Core Competencies

- Technology Generation & Application
- Logistics, Power Projection
- Acquisition Excellence

Organization



OVERVIEW

- ADVANCE RADAR DECEPTION & COUNTERMEASURES
- LIGHTWEIGHT, AIRBORNE MINEFIELD DECEPTION
- SCATTERABLE MINEFIELD AND MUNITIONS DETECTION
- LOW POWERED UNCOOLED IR SENSOR
- LOW POWER DISPLAY COMPONENTS

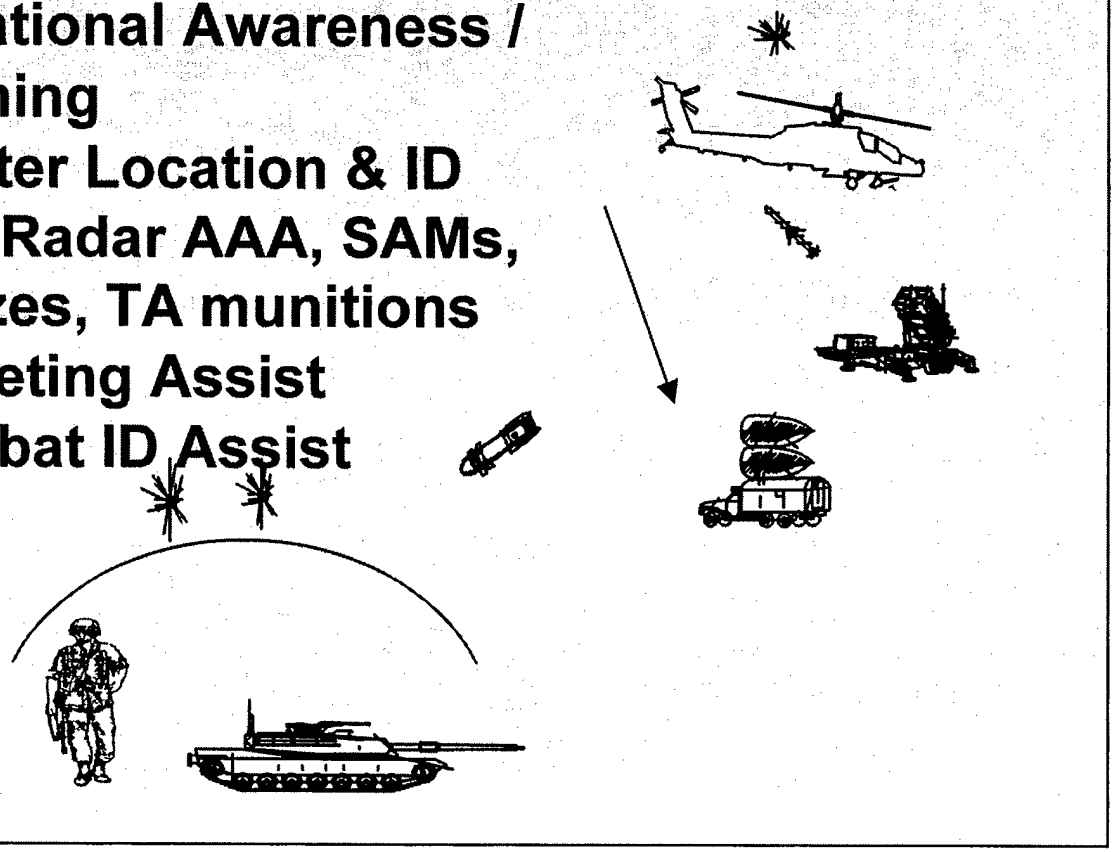
Advanced Radar Deception & Countermeasures

Program Definition

- Use Horizontal Technology Integration (HTI) principles to develop a new generation of common deception and countermeasures modules
- Develop common modules that will provide radar deception and countermeasures to protect rotary wing aircraft, ground vehicles and small units from air defense radar systems, imaging radars and smart munitions
- Provide technologies to include deception of imaging radars & integrated air defense systems that will degrade & delay enemy's ability to locate & destroy early entry forces
- Primary products will be a multi-functional wide band modulator, associated software algorithms, antennas and transmitter modules that can provide both deception and countermeasures waveforms, plus weight/life cycle cost/prime power/maintenance reductions.

Program Status

- Situational Awareness / Warning
- Emitter Location & ID
- Jam Radar AAA, SAMs, Fuzes, TA munitions
- Targeting Assist
- Combat ID Assist



- Currently under evaluation by the Department of the Army

Program Requirements

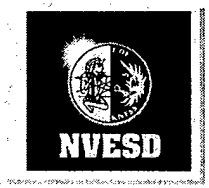
NVESD

Technology goals:

- Deceive search, acquisition & imaging radars
- Reduce probability of acquisition by monopulse and phased array air defense radars by 50%
- Prefunction 75% of MMW top attack munitions at two times the lethal radius
- Prefunction 90% of AAA proximity fuzes at two times the lethal radius
- 200% increase in prefunction range versus Category 2 and 3 artillery fuzes

Contract Opportunities

- *Title*: Advanced Radar Deception & Countermeasures
- *Objective*: Provide common module capability for radar deception and countermeasures to protect air and ground vehicles from advanced threats
- *Proposed Contract Type*: TBD
- *Key Milestones*: 4QFY00 - Transition DARPA digital module
  4QFY02 - Integration of modified modules
  4QFY04 - Field testing/write final report
- *Estimated Value*: 2-3 Contracts/$1-2 Million each
- *Technical POC*: Ray Irwin, NVESD, 732-427-4589
- *Acquisition POC*: Debbie Gilligan, 732-532-5454

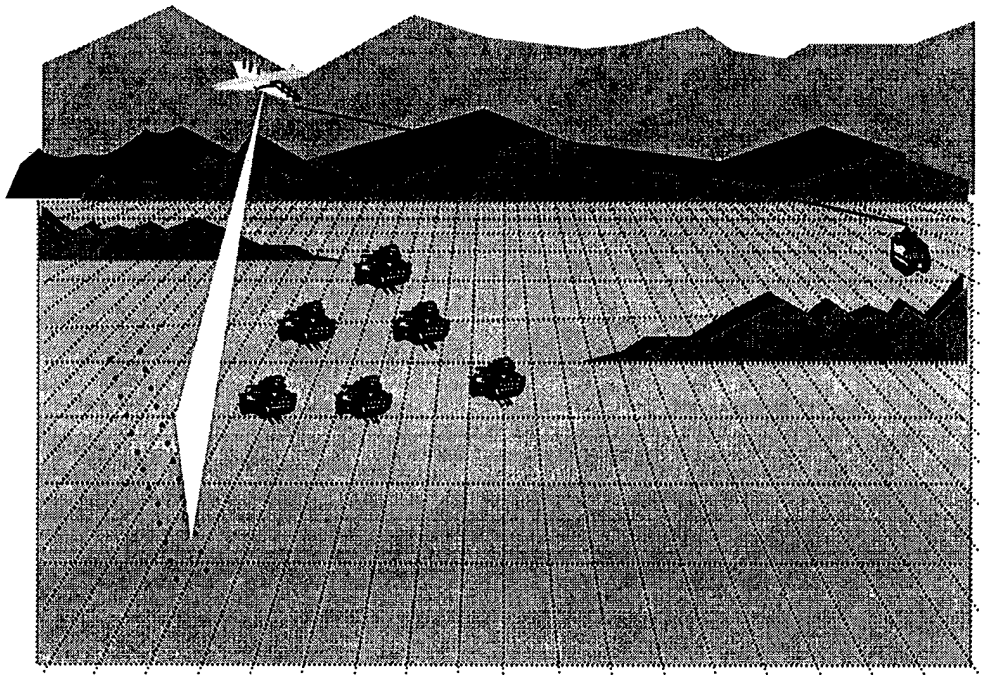


Lightweight, Airborne Minefield Detection

Program Definition

- Explore innovative concepts and technology to support a lightweight, airborne stand-off mine and minefield detection capability
- Investigate a variety of new component and focal plane array technologies such as 3-5um staring FPA's, multi/hyperspectral, passive polarization, passive millimeter wave, foliage penetration radar, synthetic aperture radar, active laser sources, sensor fusion and electronic stabilization to support a lightweight capability for future tactical or short range UAV's

Program Status



- Acquiring mine signature data
- Baselining algorithm performance
- Initiating phenomenology investigations

Program Requirements

NVESD

Technology goals:

- 60% probability of detection versus buried nuisance mines on unpaved roads
- 80% probability of detection versus surface patterned minefields
- 65% probability of detection versus buried patterned minefields
- 70% probability of detection versus surface scattered mines
- False alarm rates (false alarms / square kilometer of area covered) of less than 0.5
- Sensor weight of less than 65 pounds

Contract Opportunities

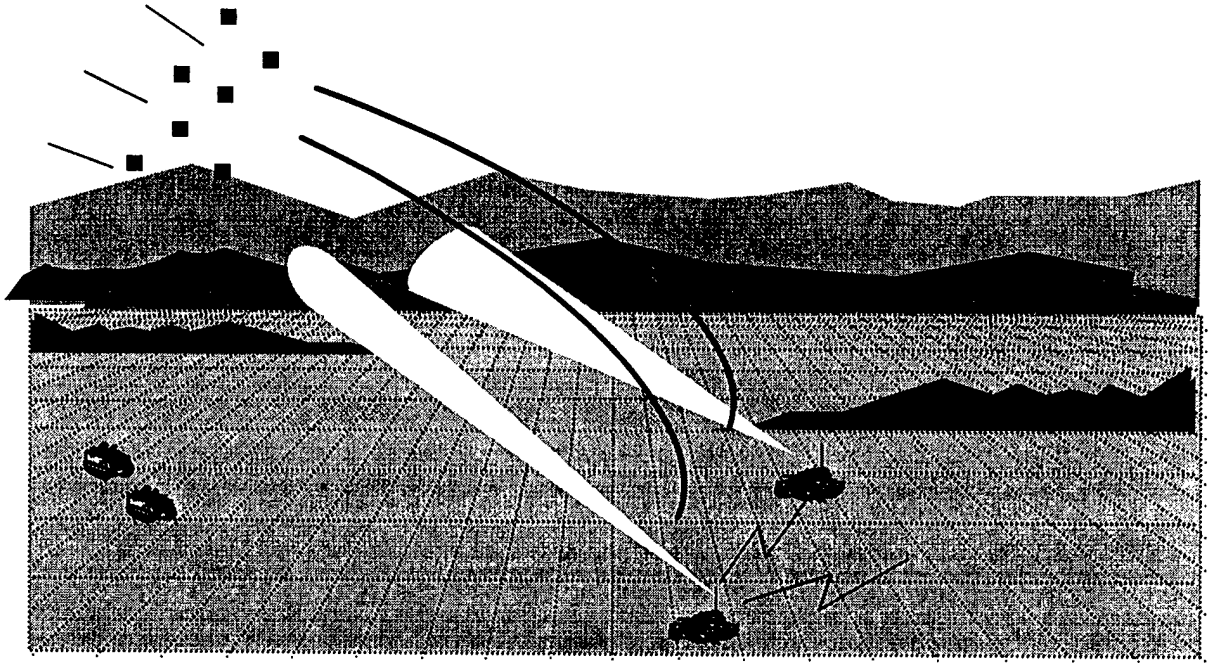
- ***Title:*** **Lightweight, Airborne Minefield Detection**
- ***Objective:*** **Explore innovative concepts & technologies to support lightweight airborne minefield & nuisance mine detection capability**
- ***Proposed Contract Type:*** TBD
- ***Key Milestones:*** **4QFY99 - Complete study efforts**
  4QFY01 - Complete sensor build & integrate
  4QFY03 - Conduct system demonstration
- ***Estimated Value:*** **Algorithm Development:**
  2-3 Contracts/$4-6 Million each
  Sensor Development:
  1-2 Contracts/$8-11 Million each
- ***Technical POC:*** **Ron Rupp, NVESD, 703-704-2442**
- ***Acquisition POC:*** **Anna Kimberly, 703-325-5800**

Scatterable Minefield & Munitions Detection

Program Definition

- This technology will provide BDE and below maneuver units an indigenous, rapidly transportable, sensor suite to provide real-time detection and impact location of scatterable munitions and mines.
- This research will explore the capability of the Multifunction Staring Sensor Suite (MFS3) and/or the millimeter wave ground radar (MGR) to scan the horizon continuously to acquire projectile tracks from volley fire events. Following initial detection, the the sensor suite will track projectiles, determine range, trajectory and predict impact location and/or firing battery location.
- The system will be capable of response to other sensor cues and provide handoff of hostile weapons location data for counter battery missions

Program Status



- Currently under evaluation by the Department of the Army

Program Requirements

Category	Baseline	STO Goal
Probability of Detection	None	0.90
Detection Range	None	5KM
Impact Location Radius	None	200M
Max False Alarm Rate	None	0.10
Operating Environment	None	Identified Munition 24 Hour Operation Limited by Terrain

Contract Opportunities

- *Title*: Scatterable Minefield & Munitions Detection
- *Objective*: This technology will provide BDE and below maneuver units an indigenous, rapidly transportable, sensor suite to provide real-time detection and impact location of scatterable munitions and mines
- *Proposed Contract Type*: BAA
- *Key Milestones*: Contract Award - FY00
- *Estimated Value*: 1-2 Contracts/$1.5-2.5 Million each
- *Technical POC*: George Maksymonko, NVESD, 703-704-2420
- *Acquisition POC*: Anna Kimberly, 703-325-5800

Low Power Uncooled IR Sensor

Program Definition

- Demonstrate low power sensor technology for upgrades to Land Warrior Thermal Weapons Sights (TWS) and to support a "Land Warrior-Javelin" integration
- Produce a compact Weapons Sight that incorporates an improved generation of uncooled infrared technology
- Comparable performance to current Javelin CLU with significant size/weight/cost savings
- Pilot demonstration of integrated power management and low power electronics architecture
- Goal of 36 hours of operations on BA-5847 C/U battery
- Enable Land Warrior to fire Javelin missiles without use of the command launch unit (CLU).
- Horizontal Technology Integration (HTI) opportunities for Objective Individual Combat Weapon (OICW) and Objective Crew Served Weapon (OCSW)

Program Status

JAVELIN



Current device is cooled and heavy

LAND WARRIOR



Uncooled yet met major requirement through soldier computer

- Currently under evaluation by the Department of the Army

Program Requirements

Capability	Present CLU/TWS	Minimum (Uncooled)	Goal (Uncooled)
Recognition of Tank Target	Range (CLU) (Classified)	Present CLU Range	1.2 x Present
Power	8 Watts (TWS)	4 Watts	2 Watts
Batteries/72 hr Mission	9 (TWS) 5.4 lbs	4 2.4 lbs	2 1.2 lbs
Weight	5.4 lbs (TWS)	4 lbs	3.5 lbs

Contract Opportunities

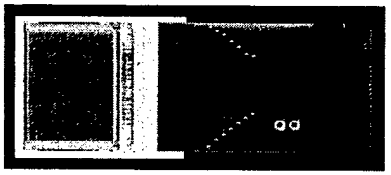
- *Title*: Low Power Uncooled IR Sensors
- *Objective*: Demonstrate low power advanced sensor technology and produce a compact Weapons Sight that incorporates an improved generation of uncooled infrared technology
- *Proposed Contract Type*: TBD
- *Key Milestones*: 4QFY00 - Complete requirements studies
  4QFY01 - Complete design of low power electronics/power management
  4QFY03 - Complete fabrication for delivery to existing systems
- *Estimated Value*: 1 Contract/$9-11 Million
- *Technical POC*: Neil Supola, NVESD, 703-704-3181
- *Acquisition POC*: Debbie Gilligan, 732-532-5454

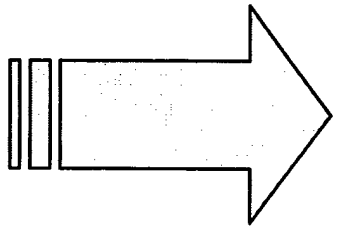
Low Power Display Components

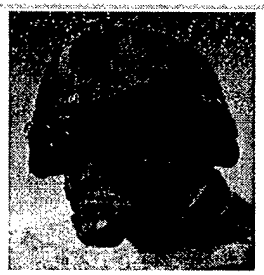
Program Definition

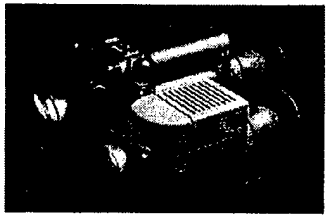
- This effort will reduce power consumption by >50% over existing helmet mounted displays, enabling the warfighter to execute longer missions with less head borne weight and logistics burden.
- The technology products will be miniature flat panel displays that consume low power, save weight and space, support both monochrome and full color applications, have high image fidelity, and integrate easily with current and next generation sensors.
- Technology to support Army After Next capabilities includes enhanced color display for the future soldier system, low power 1920 X 1080 for the Mounted Warrior application, companion optical components to enhance display properties, and demonstration of compatibility with the HTI 2nd Gen FLIR

Program Status



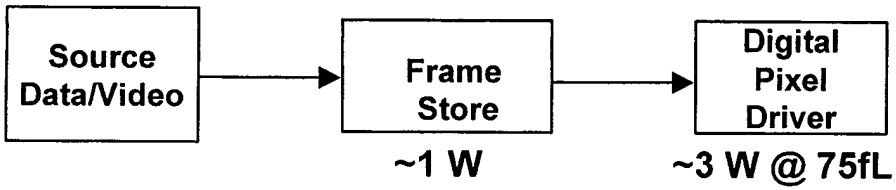


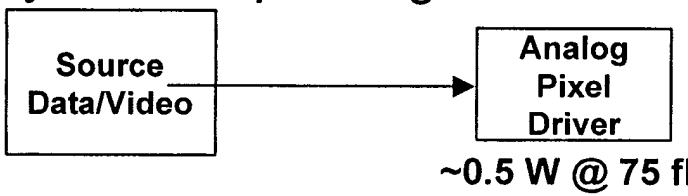






- Flat Panels for Head Mounted Displays & Weapon Sights





- **Existing Flat Panel Display Architecture for Dismounted Applications**
  Current
- **Low Power Flat Panel Display Architecture for Dismounted Applications**
  Proposed
- **Currently under evaluation by the Department of the Army**

Program Requirements

Occluded Design Applications (Dismounted / Mounted Warrior)

- **Monochrome low power 640 x 512: 8bit, < 0.5W, 75fL**
- **Monochrome low power 1280 x 1024: 8bit, < 0.8W, 75fL**
- **Monochrome low power 1920 x 1080: 8bit, < 1.0W, 75fL**
- **Color low power 640 x 512: 24bit, < 1.0W, 25fL**

See-through Design Applications (Aviation / Air Warrior)

- **Monochrome high brightness 1280 x 1024: 8bit, 1500fL**
- **Monochrome high brightness 1920 x 1080: 8bit, 1500fL**

Contract Opportunities

- *Title*: Low Power Display Components
- *Objective*: Reduce power consumption by >50% over existing helmet mounted displays, support both monochrome and full color applications, have high image fidelity, and integrate easily with current and next generation sensors.
- *Proposed Contract Type*: TBD
- *Key Milestones*:
  - 4QFY00 - Demo monochrome 1280x102
  - 4QFY02 - Continue 1280x1024 & 1920x108
  - 4QFY03 - Complete manufacturing base efforts and demo improved displays
- *Estimated Value*: 1-2 Contracts/$2-3 Million each
- *Technical POC*: Charles Bradford, NVESD, 703-704-1317
- *Acquisition POC*: Debbie Gilligan, 732-532-5454

NOTES

Information Systems Technology



CHUCK STRIMPLER

ASSOCIATE DIRECTOR FOR TECHNOLOGY PLANNING

SPACE & TERRESTRIAL COMMUNICATIONS DIRECTORATE

UNCLASSIFIED

AMSEL-RD-ST-D 13 MAY 98

Point Paper

SUBJECT: Space & Terrestrial Communications Directorate APBI Contract Opportunities

PURPOSE: To inform the APBI audience of contractual opportunities within S&TCD.

FACTS:

- S&TCD's R&D program is comprised of Advanced Technology Demonstrations (ATDs) and Science and Technology Objectives (STOs).

- Five contractual opportunities exist through S&TCD's STO's and ATD's and one from I2WD:

  The first opportunity, CICM UHF Cosite Mitigation for Brigade Light Digital TOC, is a procurement through a Broad Agency Announcement (BAA), June FY98. Expected award is 1Q FY99.

  The second and third opportunities, JTR Antenna and Soldier Radio Advanced Technology, are procurements through a BAA, Oct FY97. Expected award is 2Q FY99.

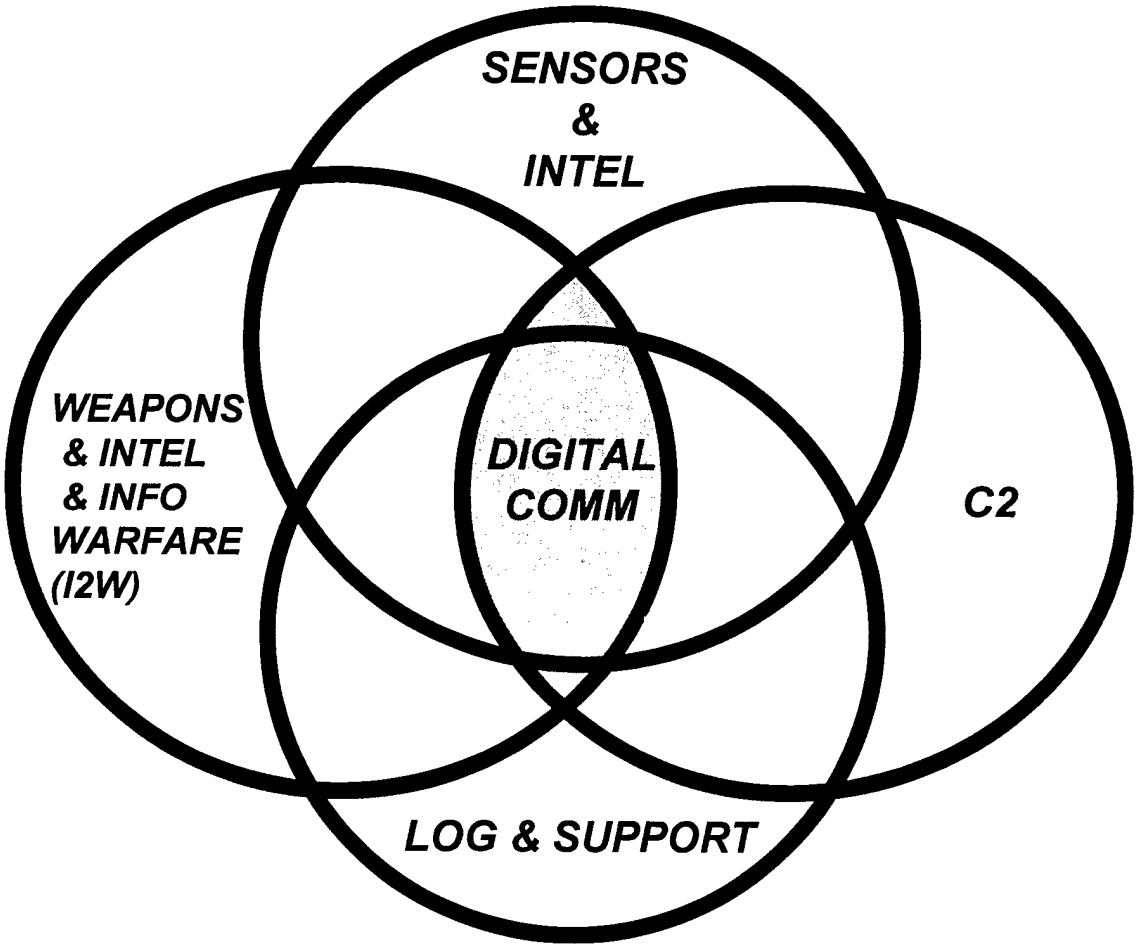
  The fourth opportunity, Network Management, is a procurement through a BAA, May FY00. Expected award is 1Q FY01.

  The fifth and sixth opportunities are part of the Tactical C2 Protect ATD, with one opportunity each from S&TCD and I2WD. The S&TCD opportunity, Tactical C2 Protect, is a procurement though a BAA, Oct FY97. Expected award is 1Q FY99. The I2WD opportunity, Communication Exploitation Tools, is a procurement through a BAA, Aug FY99. Expected award is 2Q FY00/1Q FY01.

BRIEFER: Mr. Chuck Strimpler, AMSEL-RD-ST-DD, (732) 427-3451.

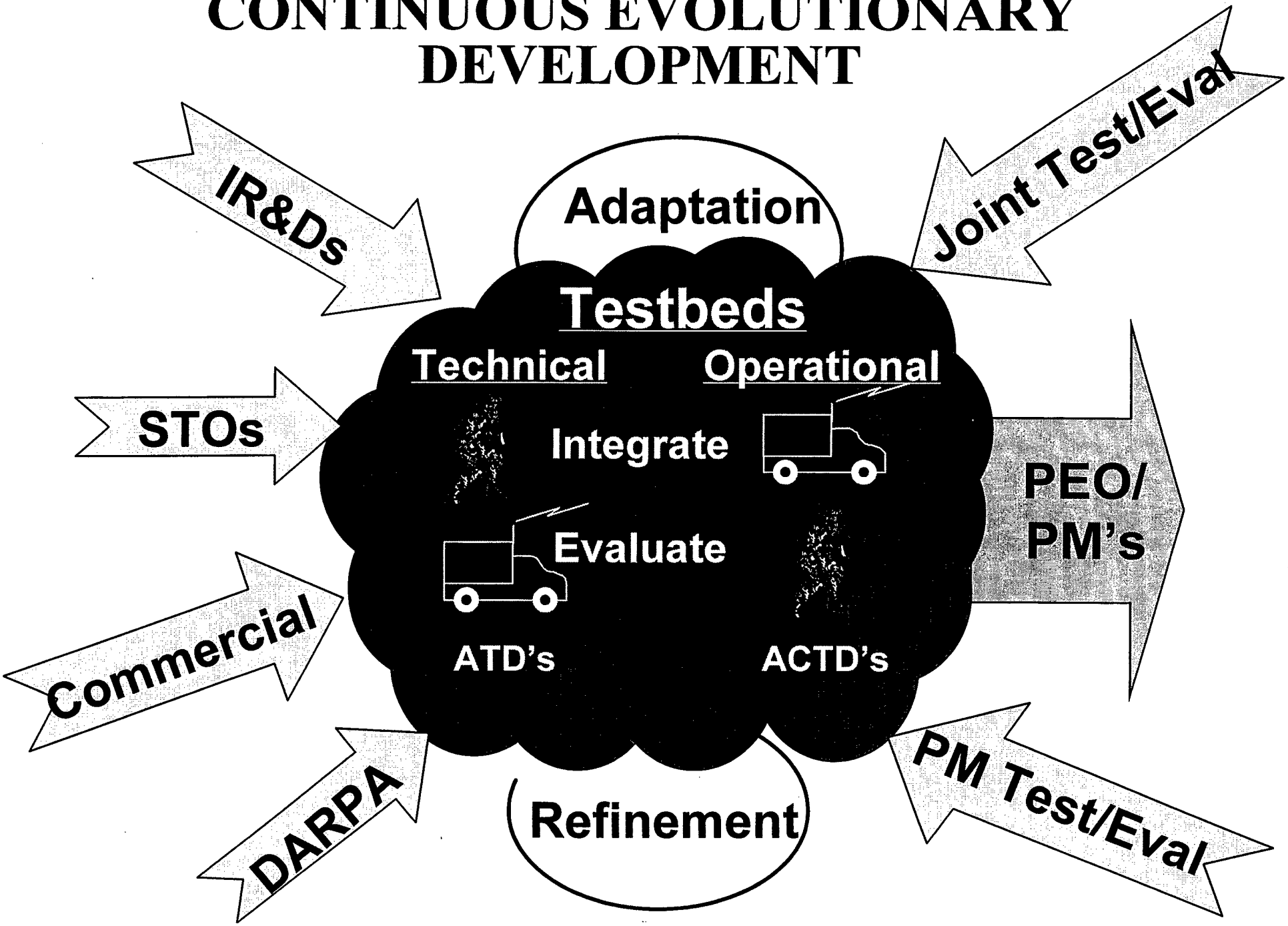
Communication Systems Technology

DOMINANCE IN THE INFORMATION AGE

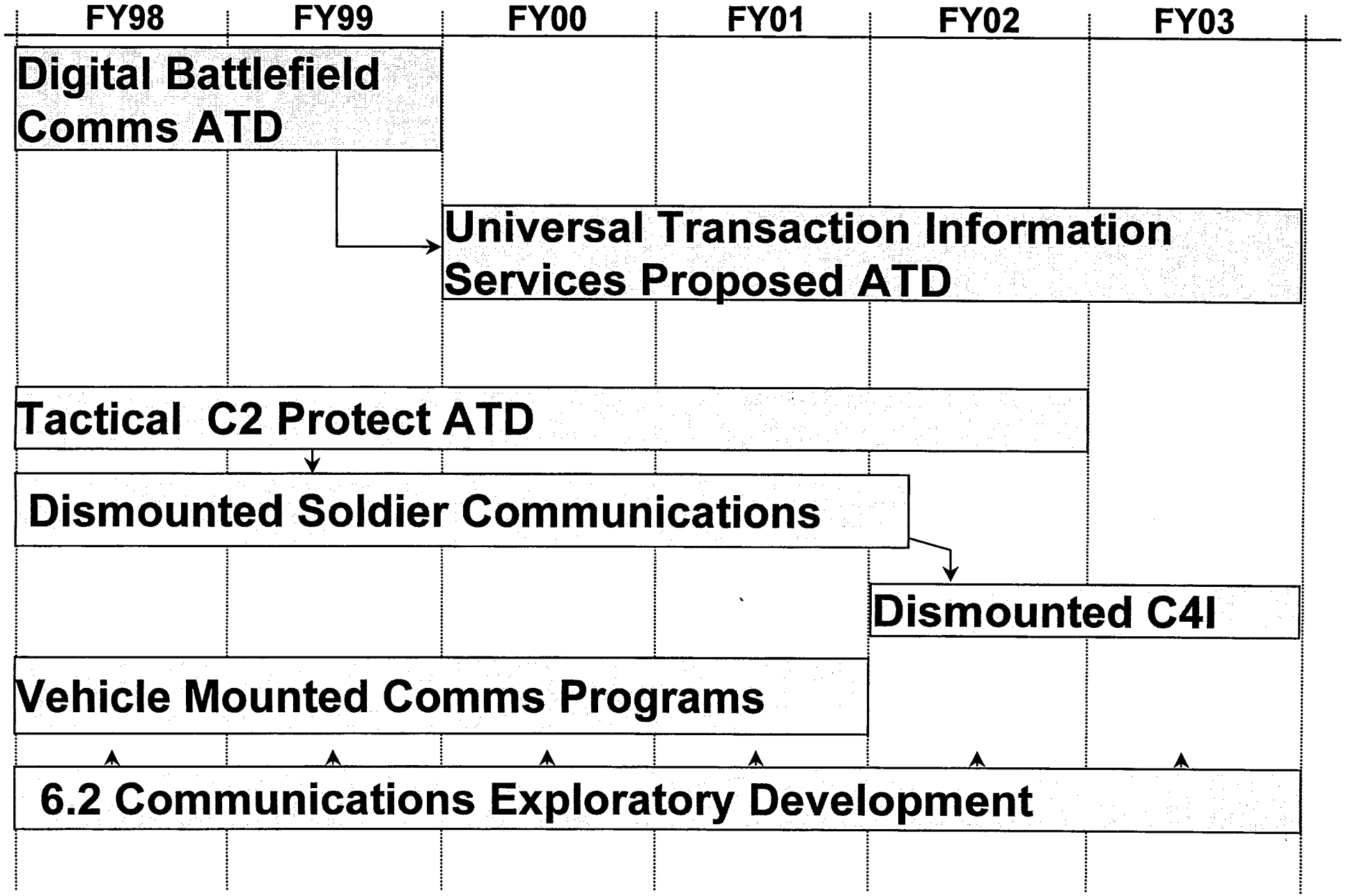


Space & Terrestrial Communications Directorate

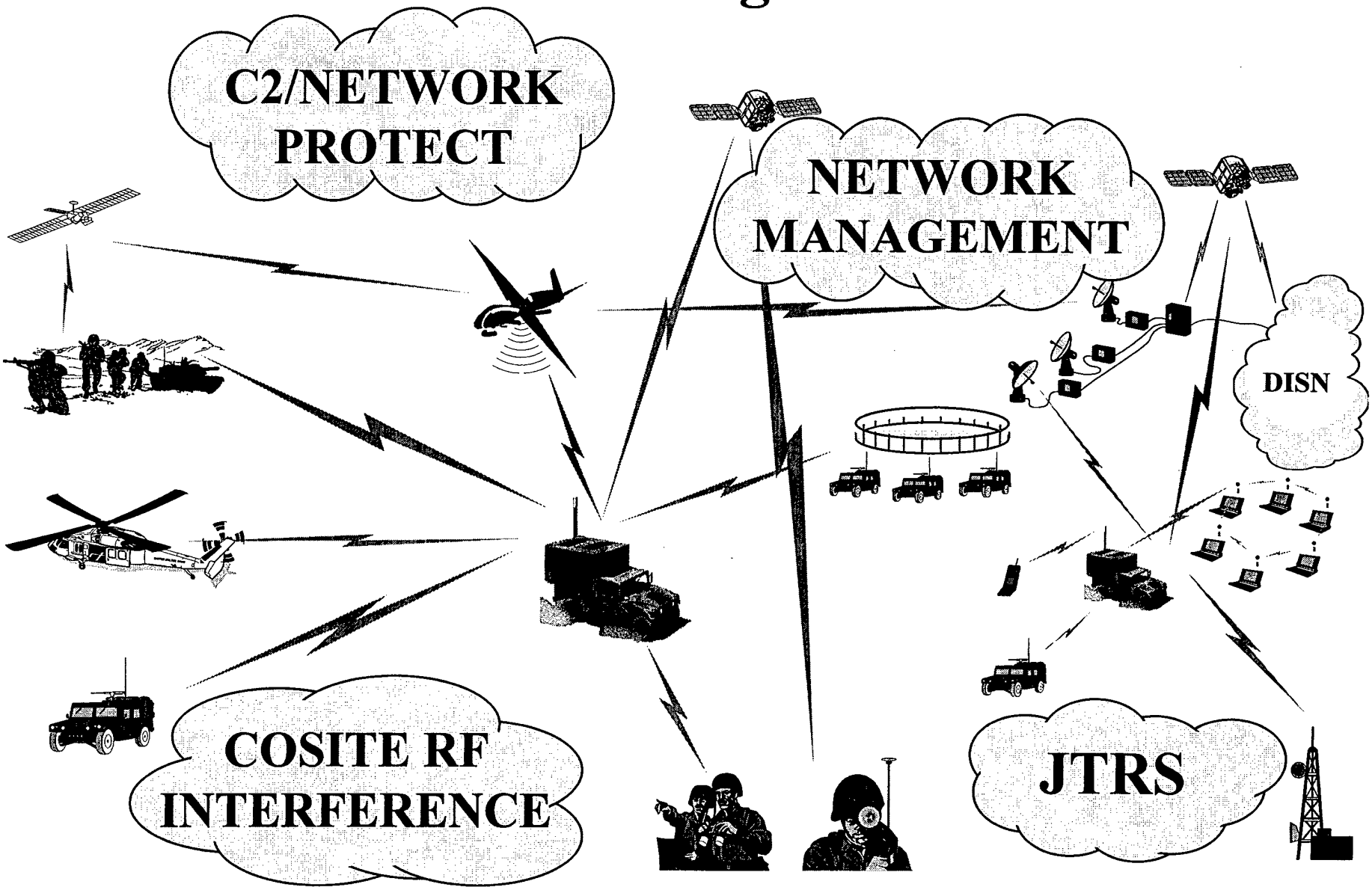
CONTINUOUS EVOLUTIONARY DEVELOPMENT



SIMPLIFIED COMMUNICATIONS S&T ROADMAP



Army Communications Architecture Challenges



CONTRACTUAL OPPORTUNITIES

TITLE: CICM UHF Cosite Mitigation for Brigade Light Digital TOC (LDTOC)

OBJECTIVE: Develop WideBand power amplifiers for use with Multiband Multimode Joint Tactical Radio (JTR)

Develop UHF Multiplexer to couple multiple UHF transceivers to a single broadband antenna

CONTRACT TYPE: FFP Contract Wide Band Amplifier (BAA 6/98)
FFP Contract UHF Multiplexer/Interference Canceller

ESTIMATED VALUE: $1 - $1.3M , 1 Year Effort, each task

KEY MILESTONES:

Wide Band PA award	1 Qtr FY99
UHF Multiplexer/Canceller award	1 Qtr FY99

POC: Yoram Levy, Steve Goodall (972)4274664, (972)5320445

ACQUISITION POC: Stephanie Scandiffio, (732) 532-4386

CONTRACTUAL OPPORTUNITIES

TITLE: JTR Antenna

OBJECTIVE: Develop broadband 30Mhz to 450 Mhz antenna.
Gain profile: -5, 0, +1 dBi @ 30, 50, 88 MHz and
+2, +4 dBi @ 225, 450 Mhz

CONTRACT TYPE: CPFF (BAA Oct 97)

ESTIMATED VALUE: $250 - $300K, 2 Year Effort

KEY MILESTONES: Award 2 Qtr FY99
Prototype delivery 4 Qtr FY-01

POC: Dr. Peter Cunningham (732)427-4189

ACQUISITION POC: Frank Caltabilota (732) 532-3832

CONTRACTUAL OPPORTUNITIES

TITLE: Soldier Radio Advanced Technology

OBJECTIVE: Develop a system engineering and rapid prototyping environment to support the design, development, test and evaluation of software programmable radio designs, modular architectures, and flexible mobile networking technologies

JTR and FORCE XXI Land Warrior S&T Program transition strategies

CONTRACT TYPE: CPFF (BAA, Oct 97)

ESTIMATED VALUE: $2.0 - $2.4M, 3 Year Effort

KEY MILESTONES:

- Contract award(s) - 2Q FY99
- Design recommendations and transition strategies - 4Q FY01

POC: Perry Hugo (732) 427-2295

ACQUISITION POC: Frank Caltabilota (732) 532-3832

CONTRACTUAL OPPORTUNITIES

TITLE: Network Management

OBJECTIVE: Modify Network Management tools to demonstrate efficient use in low bandwidth mobile tactical environments. Demonstrate efficient use of centralized and decentralized management techniques.

CONTRACT TYPE: FFP, (BAA May FY00) for exploring next generation Network Management techniques as applied to low bandwidth mobile tactical environments.

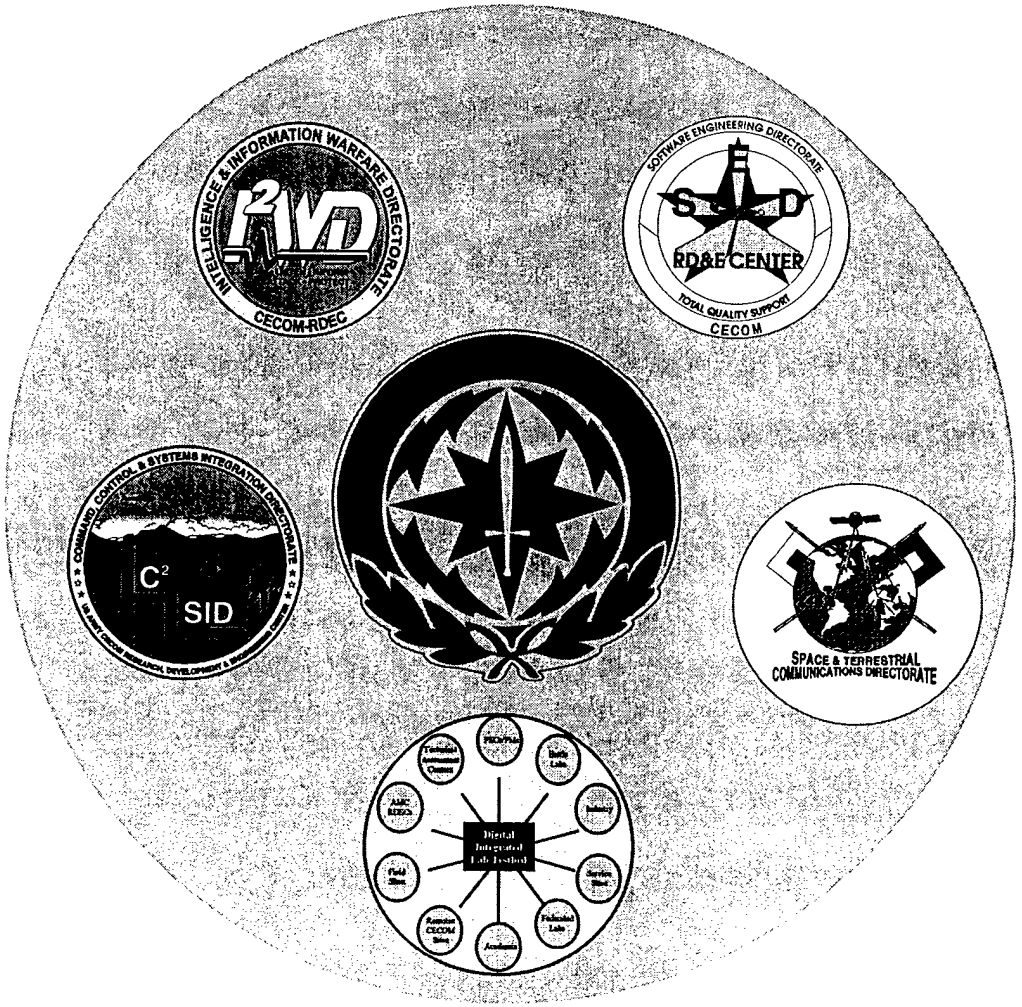
ESTIMATED VALUE: $450 - $500K , 3 Year Effort

KEY MILESTONES: Network Mgmt award 1 Qtr FY01
Feasibility Demo 3 Qtr FY03

POC: Bill Sverapa (732)427-2118

ACQUISITION POC: Frank Caltabilota (732) 532-3832

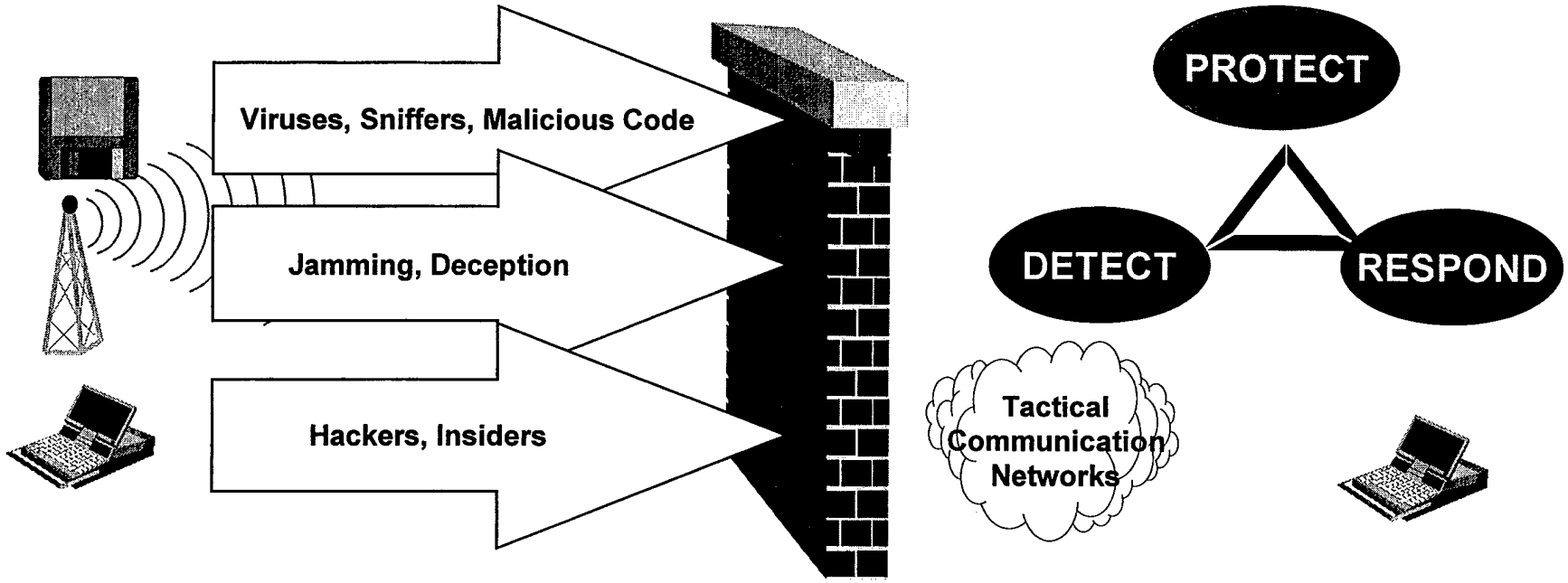
TACTICAL C2 PROTECT ATD



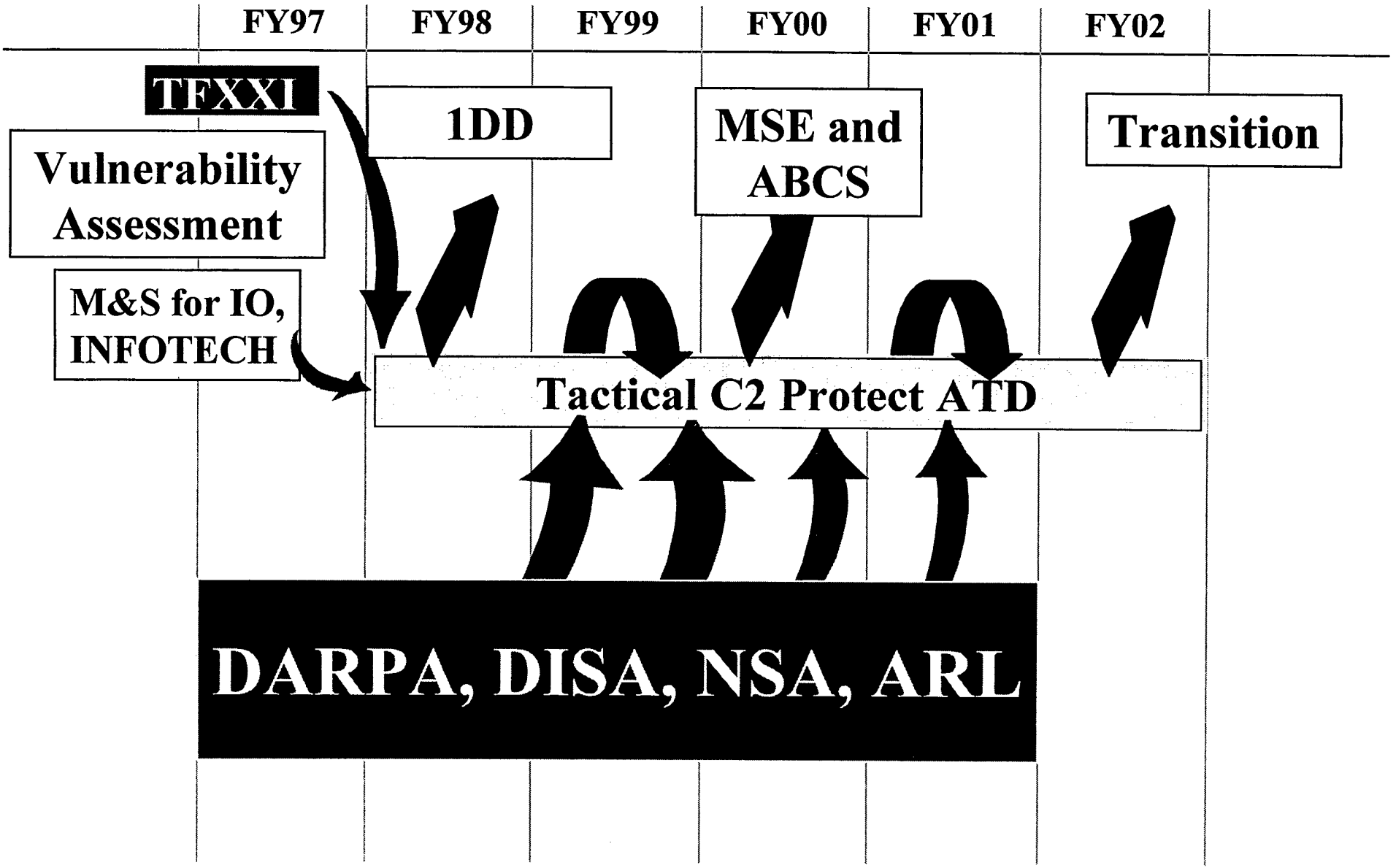
TACTICAL C2 PROTECT ATD OBJECTIVES

The objectives of the ATD are to Protect:

- The Tactical Internet
  - Brigade and Below Communications Systems and Networks (SINCGARS, EPLRS)
- Army Common User Systems (MSE)
  - Gateways to higher echelons
- First Digitized Division
  - Host Systems and Networks
- Leverage information from interactive testing of protection systems for IO Attack applications in order to achieve information dominance



TACTICAL C2 PROTECT ATD



CONTRACTUAL OPPORTUNITIES

TITLE: Tactical C2 Protect

OBJECTIVE: Develop, integrate, and validate network access control, intrusion detection/ response, host level improvements, and security management that will secure the systems and networks of the First Digitized Division (FDD) and beyond.

CONTRACT TYPE: - CPFF (BAA Oct 97)

- Future Dual Use Application Programs

ESTIMATED VALUE: $6.0-8.0M, 4 Year Effort

KEY MILESTONES: Award 1st Q of each FY, beginning with FY99 (Multiple awards NTE $1M per year)

POC: Pete Van Syckle, S&TCD SPO, (732) 427-4647

ACQUISITION POC: Frank Caltabilota (732) 532-3832

CONTRACTUAL OPPORTUNITIES

TITLE: Communication Exploitation Tools

OBJECTIVE: Assess existing tools/develop tools & techniques for demonstrating capability to exploit Command and Control Networks.

CONTRACT TYPE: CPFF (BAA Aug 99)

ESTIMATED VALUE: $5.5 - $6.0M, 3 Year Effort

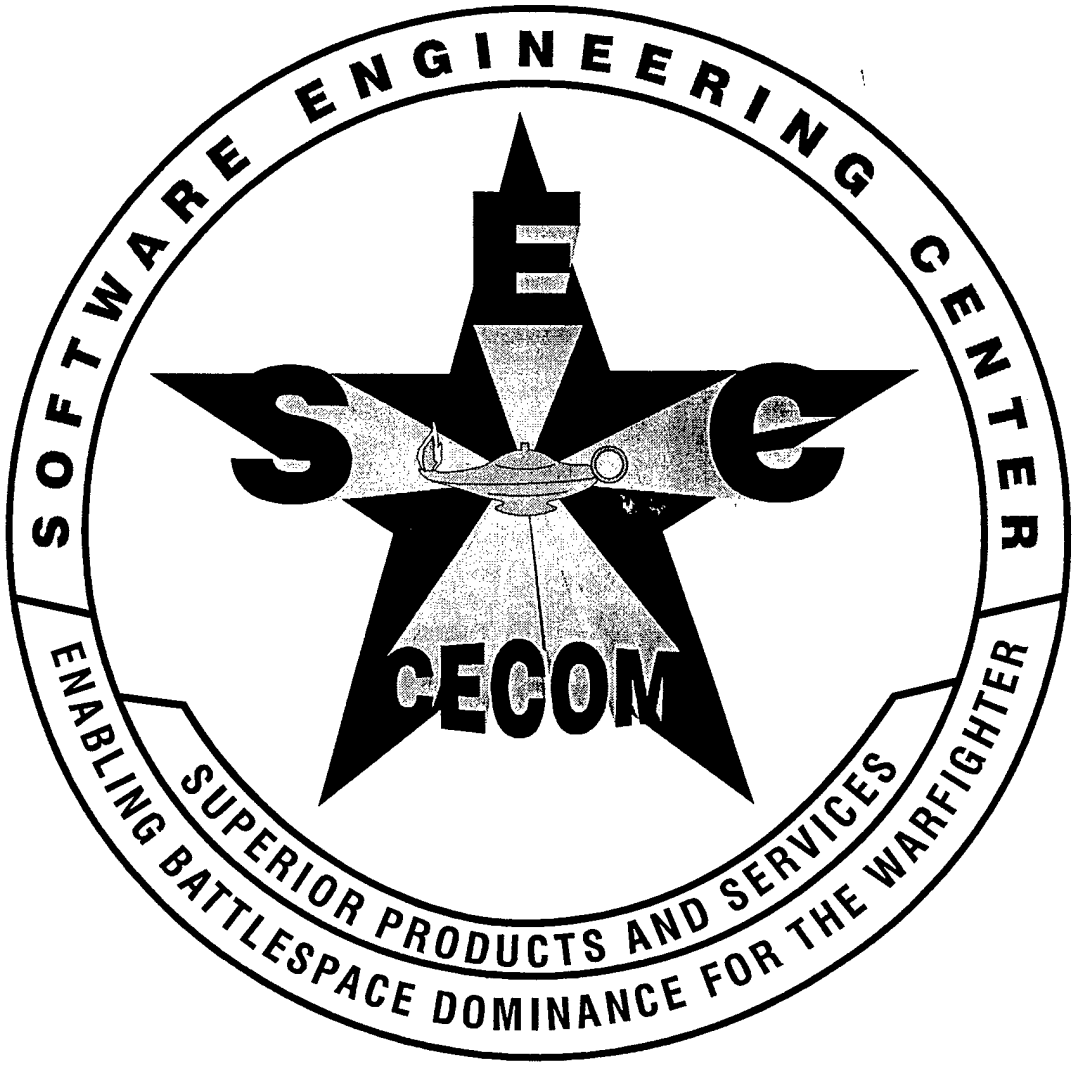
KEY MILESTONES:

- Awards 2QFY00/1QFY01 (multiple awards NTE $1.0 M)
- Participation in laboratory/field test FY00-02

POC: Kevin Boyle, I2WD (732) 427-6526

ACQUISITION POC: Gloria Embury Jones (732) 427-1335

NOTES



JAMES R. WAGNER
DEPUTY DIRECTOR, SOFTWARE ENGINEERING

UNCLASSIFIED

AMSEL-SE-DD

POINT PAPER

SUBJECT: Software Engineering Center (SEC)

OBJECTIVE:

The CECOM Software Engineering Center was formed by combining the CECOM Software Engineering Directorate (SED), Information Software Support Center (ISSC), Logistics System Support Center (LSSC), and Industrial Logistics Systems Center (ILSC), and the Army's Center of Excellence for Software Engineering. This mission provides numerous opportunities for contractor participation in projects assigned to the SEC.

FACTS:

Life Cycle Software Engineering is committed to worldwide Army readiness providing support to C4IEW Mission Critical Defense Systems (MCDS) from initial system concept through development, production, deployment, and support of fielded systems.

Sustaining base systems include software intensive systems used in the retail logistics area as well as applications used in administration and personnel resources allocation. These systems were developed by the ISSC, headquarters at Fort Belvoir, VA.

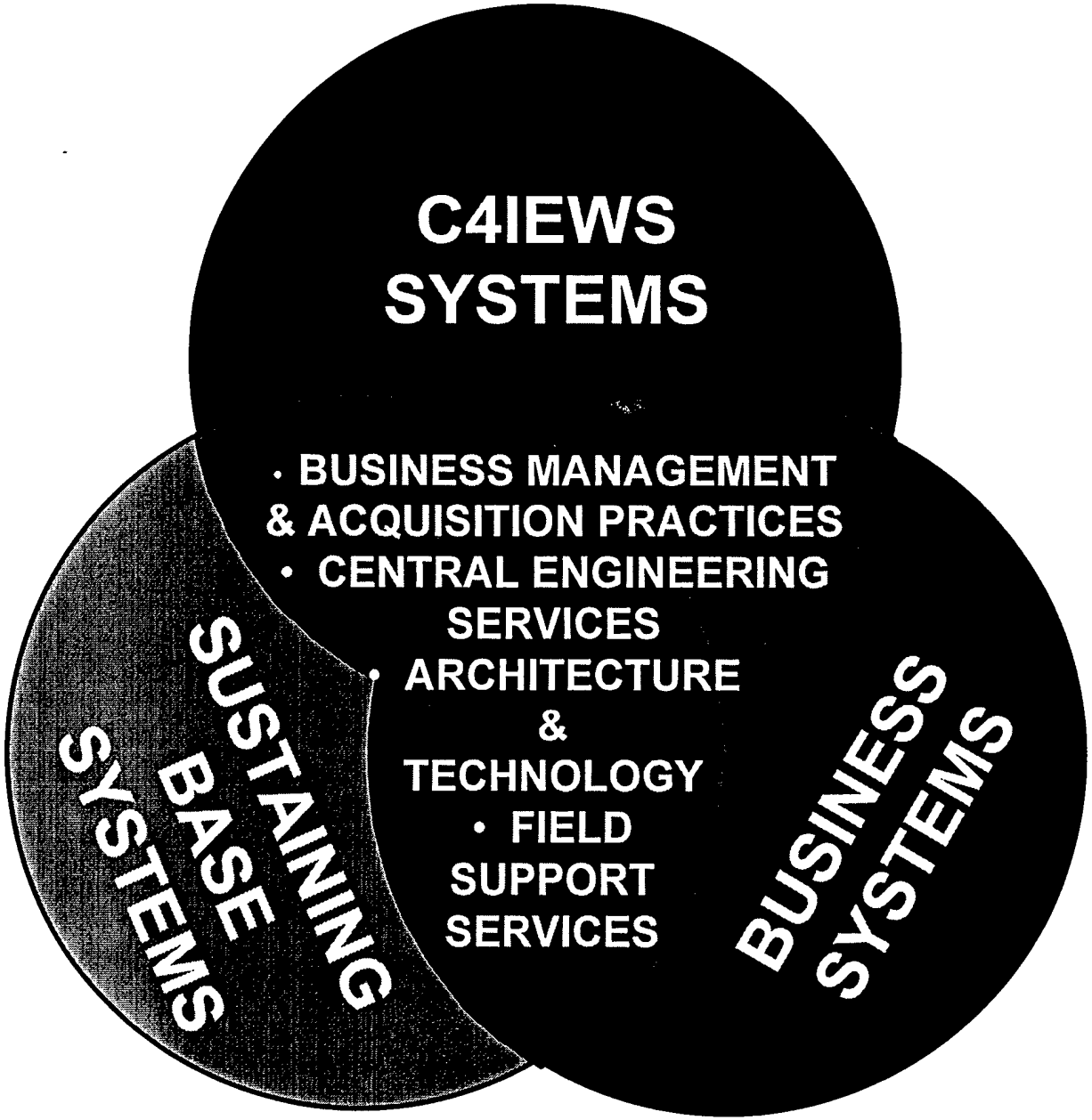
Business Systems include software utilized in Army Depot Operations and by the various Commodity Commands. These systems were developed by LSSC (St Louis, MI) and ILSC (Chambersburg, PA).

The SEC contractual program represents over 1900 man-years of support disbursed throughout the various locations maintained by SEC and approximately 450 software intensive systems in development through deployment. The value of the contractual program exceeds $200 million per year. The SEC team comprised of military, civilian and contractor personnel, strives to provide quality support to the software engineering practices and constant improvement to the software development process.

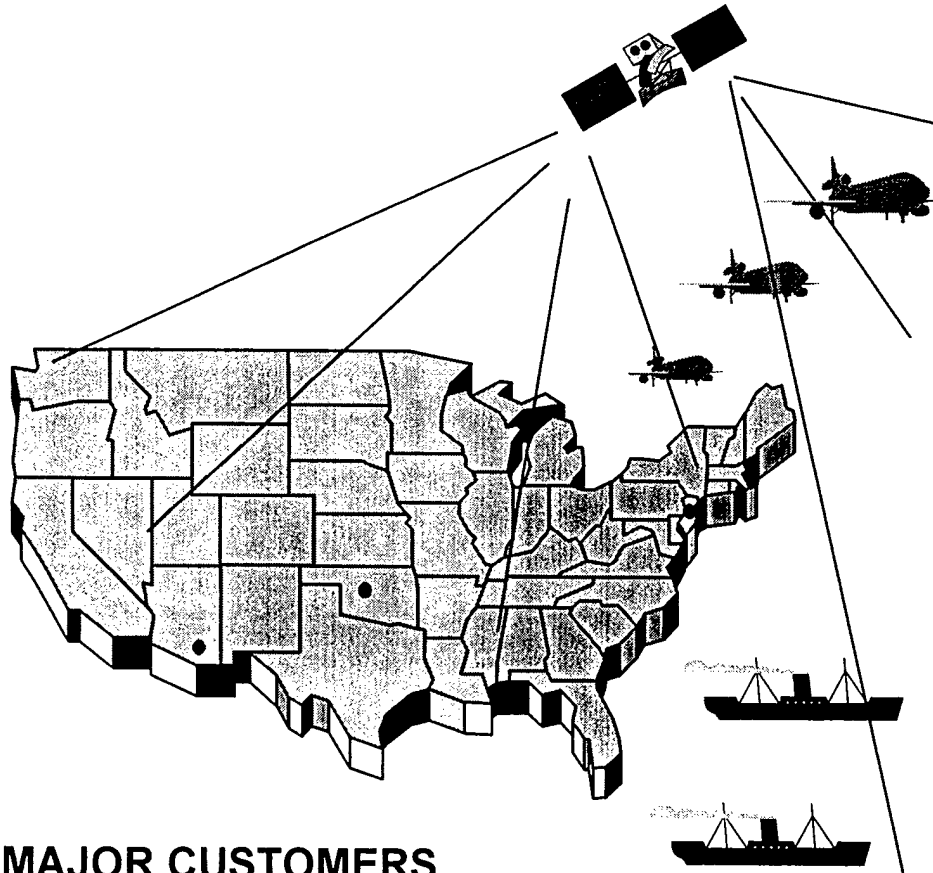
BRIEFER: James Wagner, Deputy Director, CECOM SEC, AMSEL-SE-DD, DSN 992-8205.

ACTION OFFICER
Eugene J. Boyle
Chief
Contracts Group
DSN 992-8220

SEC SYSTEM AREAS

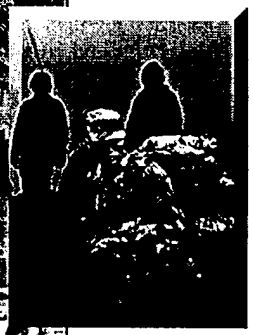


C4IEWS SYSTEMS



180+
C4IEWS
SYSTEMS





BUDGET
$162M

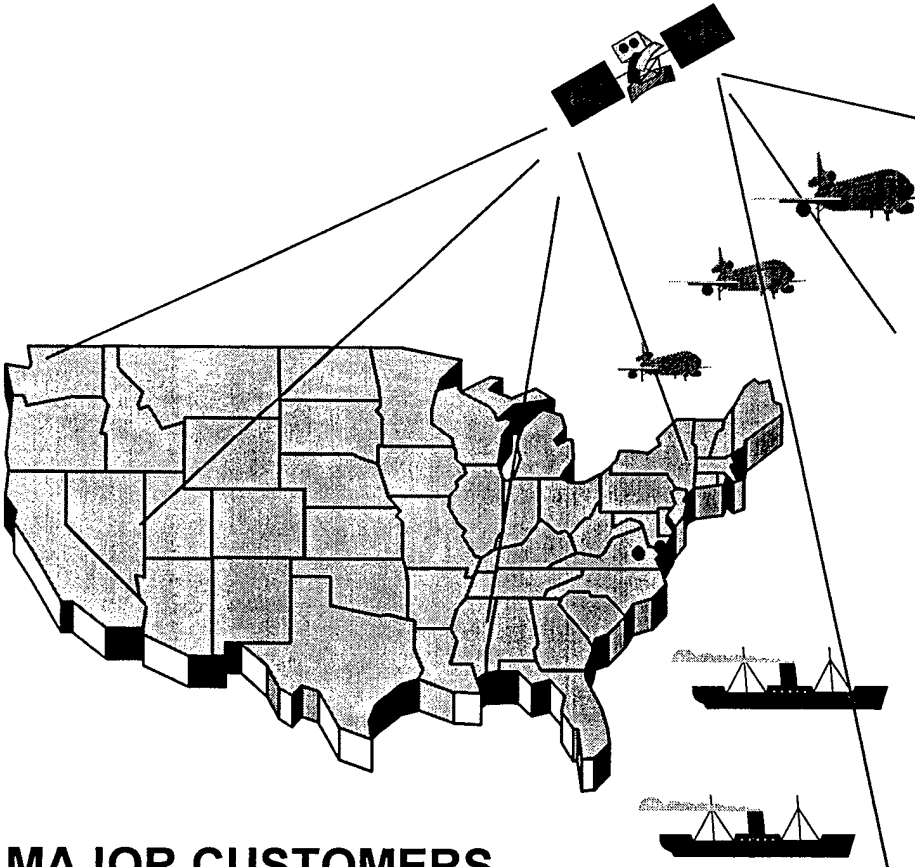
MAJOR CUSTOMERS

- OSD
- JOINT
- DA
- AMC
- PEO C3 SYS
- PEO IEW
- PMs
- FIELD UNITS

STAFF

- 228 CIVILIANS
- 9 MILITARY
- 1200+ CONTRACTORS

SUSTAINING BASE SYSTEMS



259
SUSTAINING
BASE SYSTEMS



BUDGET
$109M

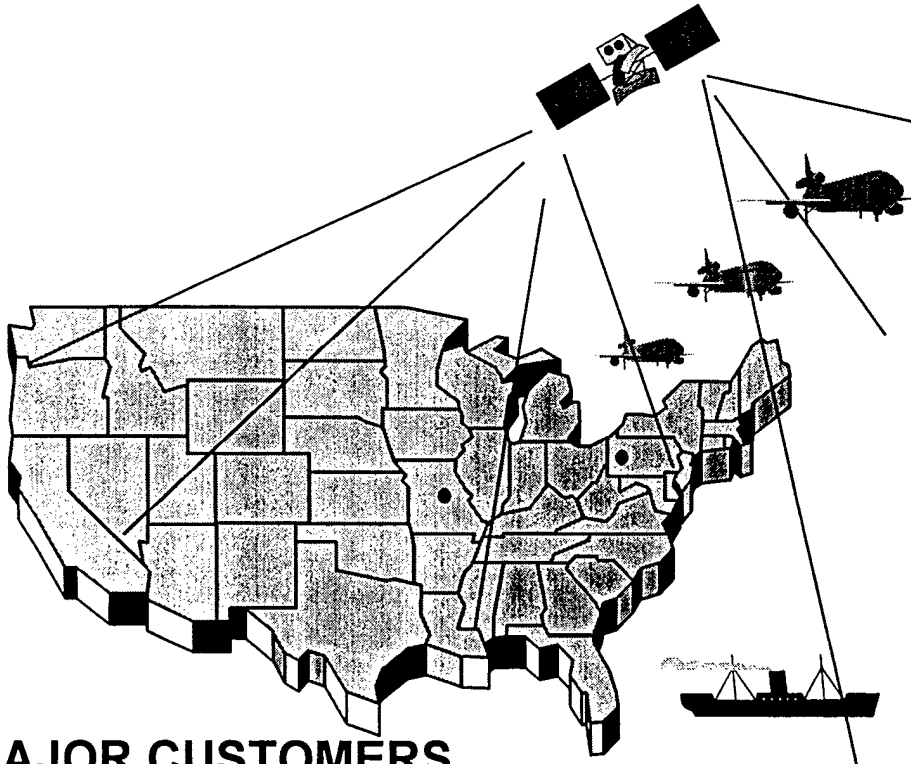
MAJOR CUSTOMERS

- OSD
- JOINT
- DA
- AMC
- PEO STAMIS
- PMs
- FIELD UNITS

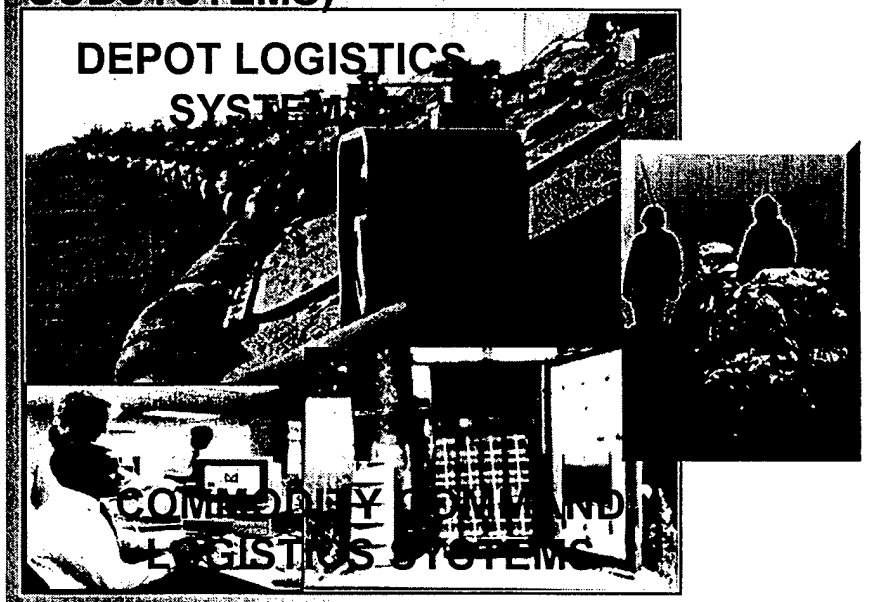
STAFF

- 624 CIVILIANS
- 240 MILITARY
- 587 CONTRACTORS

BUSINESS SYSTEMS



11
SYSTEMS
(WITH 566 TOTAL
SUBSYSTEMS)



MAJOR CUSTOMERS

- OSD
- DA
- JOINT
- TRADOC
- AMC
  - DEPOTS
  - AWR SITES
  - ARSENALS
  - MSCs
  - LABS
  - PROVING GROUNDS

STAFF

- 513 CIVILIANS
- 0 MILITARY
- 113 CONTRACTORS

BUDGET
$40M

CECOM
SOFTWARE ENGINEERING CENTER

MISSION AREA	C4IEWS SYSTEMS	STANDARD ARMY SUSTAINING BASESYSTEMS	STANDARD AMC COMMODITY COMMAND SYSTEMS	STANDARD AMC DEPOT SYSTEMS	ALL
NUMBER OF SYSTEMS	180+	259	3 (CCSS HAS 539 SUBSYSTEMS)	8 (SDS HAS 27 SUBSYSTEMS)	450+
LINES OF CODE	42M	33M	9M	12M	96M
WORKFORCE	228 CIV 9 MIL 1200+ CONTR	624 CIV 240 MIL 587 CONTR	316 CIV 0 MIL 34 CONTR	197 CIV 0 MIL 79 CONTR	1365 CIV 249 MIL 1900+ CONTR
BUDGET	$162M	$109M	$24M	$16M	$311M

INCLUDES, BY FAR,
THE ***MAJORITY*** OF
ALL ARMY SOFTWARE BUSINESS

IT WORKFORCE CHALLENGE

GCN GOVERNMENT BUSINESS

Federal IT managers face staff shortages, ask if pay is adequate

SHORTAGE from previous page

workers. The plans, introduced by C
Secretary William M. Daley and I
Secretary Richard Riley in Berkele
include $3 million in grants to scho
nesses and local governments to ret
off workers in programmers.

Daley also announced that the fe
ernment will spend $8 million to buil
Wide Web site where employers can
openings and programmers can post

The Commerce Department will
million to bring technology to "the

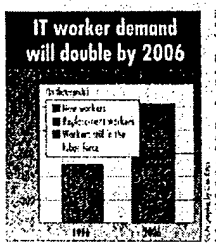
"Although we need to know something ... ware Alliance, an arm of the Software Pro-

One option is continued contracting. But
n't fly with everyone.
ld rather have government employ-
things that require the knowledge of
ntal functions ... rather than hiring
who has heavy-duty technical knowl-
rker said. ■

GCN GOVERNMENT BUSINESS

Govt. needs more IT workers

A CIO says problem is 'acute' and agencies can't match industry benefits

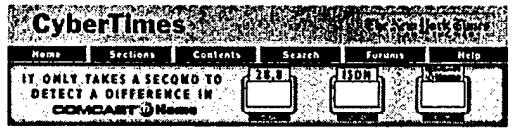


More than 1.3 million computer science jobs will be open in the United States from 1996 to 2006, a Commerce report says

But a lame-duck CIO says recruiting is not enough. "You're always striving internally," said Washington state CIO Steve Kolodney "but that's no way to build the skill set you need."

The market may be good news for IT workers, but government managers must increasingly use outsourcing to get projects completed. The shortage of skilled workers in government is to build an Failed projects and

inefficient systems. As government becomes more dependent on technology, those failures will likely have greater impact.



January 13, 1998

With Boom in High Technology, Software Jobs Go Begging

By AMY HARMON

Every so often, the co-founder of Carnelian Inc., James Kittock, hears the phones at his Silicon Valley start-up company begin to ring in order, from one cloth-covered cubicle to the next: 0976, 0977, 0978. ... He knows -- everyone in the Valley knows -- it is the recruiters, calling to steal his programmers away, often at huge salaries.

http://www.nytimes.com/library/cyber/week/011398shortage.html

Trends

BATTLING THE PEOPLE SHORTAGE

School

InformationWeek Career

IT Jobs Top Popularity Poll

CIO positions are the fifth most sought-after jobs among companies recruiting

tions, says M. Victor Janulaitis, president of Positive Support Review, an IT management consulting firm in Santa Monica, Calif. "It's really a matter of musical chairs. A lot of it depends on location. The hottest market for IT jobs is the San Francisco Bay area," he says. "There's a lot of hot growth in E-commerce,

Hot Jobs For 1998

- Marquee CEO
- Chief Financial Officer
- VP of Electronic Commerce
- Consulting/Systems Integration Executives
- Chief Information Officer
- VP of Development for Internet company
- VP of Supply-Chain Management
- VP of Outsourcing
- Financial Institutions Portfolio Manager
- CEO of IT company

the Internet, and data mining."

One area job hunters are less interested in is year 2000 positions. "People who aren't in year 2000 positions are trying to stay away from it," Janulaitis says. "It's really a matter of those people who are already in the field moving from one company to another."

—Jennifer Mateyaschuk

CIOs HAVE ALWAYS COMPLAINED ABOUT THE GAP BETWEEN WHAT SCHOOLS TEACH ABOUT COMPUTERS AND WHAT BUSINESS REALLY NEEDS. NOW, SOME CIOs ARE ACTUALLY DOING SOMETHING ABOUT IT.

SOFTWARE "JOB FACTS"

- 200,000 - 400,000 IT PROFESSIONAL JOBS CURRENTLY VACANT IN U.S.
- BY 2006, 1 MILLION NEW JOBS TO BE CREATED
- IN 1995, ONLY 35,000 BS DEGREES AND 1,000 GRADUATE DEGREES WERE AWARDED
  - 1/5 ALL DEGREES GO TO FOREIGN NATIONALS
- IN 1996, AVERAGE PROGRAMMER EARNED $66,500

THE CHALLENGE IS FOR US AND OUR INDUSTRY PARTNERS TO COMPETE EFFECTIVELY IN THIS MARKETPLACE

CECOM SOFTWARE ENGINEERING CENTER SUMMARY OF CONTRACTOR OPPORTUNITIES

YEAR		AMOUNT
99 - 04	ARMY INTEROPERABILITY ENGINEERING	$30-$40M
99 - 04	SYSTEMS & SOFTWARE ENGINEERING FOR FIRE SUPPORT COMMAND CONTROL, FIRE DIRECTION & OTHER SYSTEMS	$100-$125M
99 - 04	JTACS SYSTEMS & SOFTWARE ENGINEERING SUPPORT FOR AN-TTC/ TYC-39 FAMILY OF SWITCHES	$40-$45M
00 - 05	MISSION CRITICAL DEFENSE SYSTEM MAINTENANCE	$10-$18M
00 - 05	DEPARTMENT OF THE ARMY SOFTWARE SUPPORT SERVICES-UMBRELLA 4 (DASSS-U4)	$100-$125M
00-05	SECURITY SUPPORT SERVICES	$10-$12M

CECOM SOFTWARE ENGINEERING CENTER CONTRACT OPPORTUNITY

TITLE: ARMY INTEROPERABILITY ENGINEERING (AIE) -- DEVELOPMENT, INTEGRATION, AND TECHNICAL SUPPORT

OBJECTIVE: CONTINUE THE DEVELOPMENT AND APPLICATION OF THE ARMY INTEROPERABILITY NETWORK (AIN) TEST CAPABILITY, INTEROPERABILITY STANDARDS & RELATED ACTIVITIES, TO SUPPORT THE DEVELOPMENT & SUSTAINMENT OF INTER-OPERABILITY FOR MISSION CRITICAL DEFENSE SYSTEMS. PROVIDE SPECIALIZED ENGINEERING & TECHNICAL EXPERTISE

TYPE: COMPETITIVE (UNRESTRICTED), IDIQ, TIME AND MATERIALS

SCHEDULE: RFP RELEASE - 3RD QUARTER FY98
AWARD DATE - 1ST QUARTER FY99

APPROXIMATE VALUE: $30-$40M (5 YEARS)

POC/TELEPHONE: EUGENE J. BOYLE, 732-532-8220
JOSEPH BRADY, CONTRACTING OFFICER, 732-532-5500

CECOM SOFTWARE ENGINEERING CENTER CONTRACT OPPORTUNITY

TITLE: LIFE CYCLE SYSTEMS AND SOFTWARE ENGINEERING SUPPORT FOR FIRE SUPPORT COMMAND, CONTROL, FIRE DIRECTION AND OTHER SYSTEMS, FT SILL, OK

OBJECTIVE: PROVIDE SYSTEMS AND SOFTWARE ENGINEERING SERVICES IN SUPPORT OF THE DEVELOPMENT, PRODUCTION AND DEPLOYMENT OF THE FIRE SUPPORT COMMUNITY OF SYSTEMS INCLUDING SYSTEMS SUCH AS IFSAS, BATTERY COMPUTER SYSTEM (BCS), MULTIPLE LAUNCH ROCKET SYSTEM (MLRS), ADVANCED FIELD ARTILLERY TACTICAL DATA SYSTEMS (AFATDS)

TYPE: COMPETITIVE (UNRESTRICTED), IDIQ, TIME AND MATERIALS

SCHEDULE: RFP RELEASE - 3RD QUARTER FY98
AWARD DATE - 1ST QUARTER FY99

APPROXIMATE VALUE: $100-$125M (5 YEARS)

POC/TELEPHONE: EUGENE J. BOYLE, 732-532-8220
DEBBIE SHREVE, CONTRACTING OFFICER, 732-532-2461

CECOM SOFTWARE ENGINEERING CENTER CONTRACT OPPORTUNITY

TITLE: JTACS SYSTEMS AND SOFTWARE ENGINEERING SUPPORT FOR TACTICAL CIRCUIT/MESSAGE/PACKET SWITCHES

OBJECTIVE: THIS CONTRACT WILL PROVIDE SUPPORT IN THE CORRECTION OF SOFTWARE DEFECTS/DEFICIENCIES/ERRORS; & THE IMPLEMENTATION OF SOFTWARE REFINEMENTS & ENHANCEMENTS TO THE OPERATIONAL AND SUPPORT SOFTWARE OF THESE PROGRAMS

TYPE: COMPETITIVE (UNRESTRICTED), IDIQ, TIME AND MATERIALS

SCHEDULE: RFP RELEASE - 1ST QUARTER FY99
AWARD DATE - 3RD QUARTER FY99

APPROXIMATE VALUE: $40-$45M (5 YEARS)

POC/TELEPHONE: EUGENE J. BOYLE, 732-532-8220
DEBBIE SHREVE, CONTRACTING OFFICER, 732-532-2461

CECOM SOFTWARE ENGINEERING CENTER
CONTRACT OPPORTUNITY

TITLE: MCDS HARDWARE MAINTENANCE AND TECHNICAL SUPPORT

OBJECTIVE: PROVIDE TECHNICAL SERVICES FOR HARDWARE MAINTENANCE AND SUPPORT OF ASSIGNED MCDSs AND ASSOCIATED EQUIPMENT AT FT MONMOUTH, NJ; FT SILL, OK; AND FT HUACHUCA, AZ

TYPE: COMPETITIVE (UNRESTRICTED), IDIQ, TIME AND MATERIALS

SCHEDULE: RFP RELEASE - 3RD QUARTER FY99
AWARD DATE - 1ST QUARTER FY00

APPROXIMATE VALUE: $10-$18M (5 YEARS)

POC/TELEPHONE: EUGENE J. BOYLE, 732-532-8220
DEBBIE SHREVE, CONTRACTING OFFICER, 732-532-2461

CECOM SOFTWARE ENGINEERING CENTER
CONTRACT OPPORTUNITY

TITLE: DEPARTMENT OF THE ARMY SOFTWARE SUPPORT SERVICES-UMBRELLA 4 (DASSS-U4)

OBJECTIVE: PROVIDE FOR THE ACQUISITION OF NONPERSONAL SW SUPPORT - SUPPORT SERVICES TO INCLUDE SOFTWARE COMMUNICATIONS, SYSTEMS DESIGN & ANALYSIS, SW DEVELOPMENT, TESTING, & MAINTENANCE, CONFIGURATION MANAGEMENT, RISK MANAGEMENT AND ECONOMIC ANALYSIS

TYPE: COMPETITIVE (UNRESTRICTED), IDIQ, TIME AND MATERIALS

SCHEDULE: PROJECTED - RFP RELEASE - 2ND QUARTER FY00
AWARD DATE - 3RD QUARTER FY00

APPROXIMATE VALUE: $100-$125M (5 YEARS)

POC/TELEPHONE: ROBERT F. BARB, 703-806-4172
PEGGY BUTLER, CONTRACTING OFFICER, 703-325-2858

CECOM SOFTWARE ENGINEERING CENTER CONTRACT OPPORTUNITY

TITLE: SECURITY SUPPORT SERVICES

OBJECTIVE: PROVIDE SECURITY SUPPORT IN THE AREAS OF PERSONNEL SECURITY, PHYSICAL SECURITY, COMMUNICATIONS SECURITY, INFORMATION SYSTEMS SECURITY, ELECTRONICS SECURITY, OPERATIONS SECURITY, MONITORING OF SPECIAL ACCESS PROGRAM, MANAGEMENT OF SENSITIVE COMPARTMENTED INFORMATION BILLETS AND FACILITIES AND THE CONDUCT OF SECURITY EDUCATION AT FT MONMOUTH, NJ; FT SILL, OK; FT HUACHUCA, AZ; AND OTHER CECOM FACILITIES AS REQUIRED

TYPE: COMPETITIVE (UNRESTRICTED), IDIQ, TIME AND MATERIALS

SCHEDULE: RFP RELEASE - 3RD QUARTER FY99
AWARD DATE - 1ST QUARTER FY00

APPROXIMATE VALUE: $10M-$12M (5 YEARS)

POC/TELEPHONE: EUGENE BOYLE, 732-532-8220
DEBBIE SHREVE, CONTRACTING OFFICER, 732-532-2461

NOTES

ISEC

CONTRACT OPPORTUNITIES

COLONEL ALFRED J. ESTRELLA

COMMANDER
INFORMATION SYSTEMS ENGINEERING COMMAND

UNCLASSIFIED

AMSEL-IE-MS 27 Apr 98

POINT PAPER

SUBJECT: Integration, Training and Technical Support Services Contract

OBJECTIVE: The ITTSS Contract will enhance Army information systems integration with commercial off-the-shelf hardware and software. It will also provide leading edge information systems training and information systems engineering support.

FACTS:

- The ITTSS contract will provide academia the opportunity to respond to government areas of interest in the form of scientific and exploratory studies, research, investigations, training and technical support.

- Emphasis will be on analyzing requirements, design criteria, performance standards, and engineering concepts.

- DOD must have access to scientific expertise in an academic environment to advance state-of-the-art information systems technologies.

- Milestones listed below reflect the planned schedule for ITTSS:

  - RFP Release 3d QTR - FY 98
  - Contract Award 4TH QTR - FY 98

- This will be a best value, Indefinite Delivery/Indefinite Quantity procurement, and consist of a base year and 4 option years.

BRIEFER: COL Alfred J. Estrella, Commander, US Army Information Systems Engineering Command. AMSEL-IE-HQ, (520) 538-6626.

Technical Representative
CPT Robert Olsen
Technology Integration Center
(520) 533-3600

AMSEL-IE-MS

27 Apr 98

POINT PAPER

SUBJECT: Information Mission Area Engineering and Technical Support Services (IMA III)

OBJECTIVE: The IMA III Contract will enhance Army information systems engineering services and improve USAISEC's ability to respond to customer requirements. Specifically it will provide Information Mission Area systems engineering, systems integration, systems analysis, technical, test and installation support worldwide.

FACTS:

- Systems engineering will be used to translate functional requirements and performance objectives into design criteria and specifications for system elements.

- The IMA III contract will provide engineering services using a main element at Fort Huachuca and field offices at Fort Detrick, Maryland, the National Capitol Region, Worms, Germany, and Fort Shafter, Hawaii.
- Milestones listed below reflect the planned schedule for ITTSS:

  - RFP Release 1st QTR - FY 99
  - Contract Award 4TH QTR - FY 99

- This will be a best value, Indefinite Delivery/Indefinite Quantity procurement, and consist of a base year plus 4 option years.

BRIEFER: COL Alfred J. Estrella, Commander, US Army Information Systems Engineering Command. AMSEL-IE-HQ, (520) 538-6626.

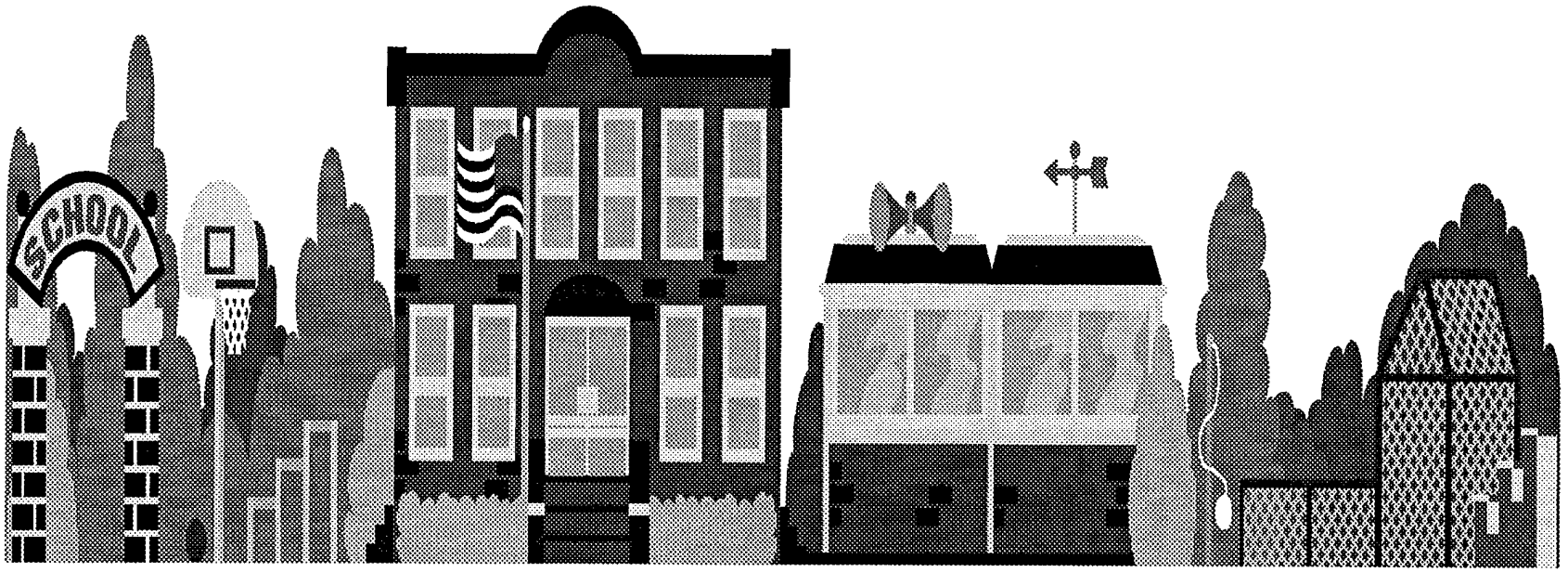
Technical Representative
Ms.Suzanne Dana
Transmission Systems Directorate
(520) 538-3045

CONTRACT OPPORTUNITIES

- **INTEGRATION, TRAINING AND TECHNICAL SUPPORT SERVICES**

- **INFORMATION MISSION AREA ENGINEERING SERVICES AND TECHNICAL SUPPORT**

INTEGRATION, TRAINING AND TECHNICAL SUPPORT SERVICES



PROGRAM DEFINITION

- TYPES OF SERVICES
- CUSTOMER BASE
- BROAD IN SCOPE

PROGRAM STATUS

- CURRENT CONTRACT WITH HOWARD UNIVERSITY EXPIRED FEBRUARY 1998

- NEW STATEMENT OF WORK APPROVED MAR 98

- REQUEST FOR PROPOSAL PROJECTED RELEASE DURING 3D QTR FY 98

- CONTRACT AWARD PROJECTED 4TH QTR FY 98

CONTRACT REQUIREMENTS

- PROVIDE SCIENTIFIC EXPERTISE IN AN ACADEMIC ENVIRONMENT

- INVESTIGATE THE FEASIBILITY OF SOLUTIONS USING A VARIETY OF TOOLS INCLUDING MODELING AND SIMULATION

- PROVIDE TRAINING IN LEADING EDGE INFORMATION SYSTEMS TECHNOLOGY

- IDENTIFY AND ADDRESS TECHNICAL CHALLENGES

SUMMARY

TITLE: INTEGRATION, TRAINING AND TECH SUPPORT SERVICES

OBJECTIVE: ENHANCE INFORMATION SYSTEMS INTEGRATION, OBTAIN LEADING EDGE TRAINING, AND PROVIDE ADDITIONAL ENGINEERING SUPPORT FOR ARMY INFORMATION SYSTEMS

KEY MILESTONES:

PROJ RFP - 3D QTR FY 98

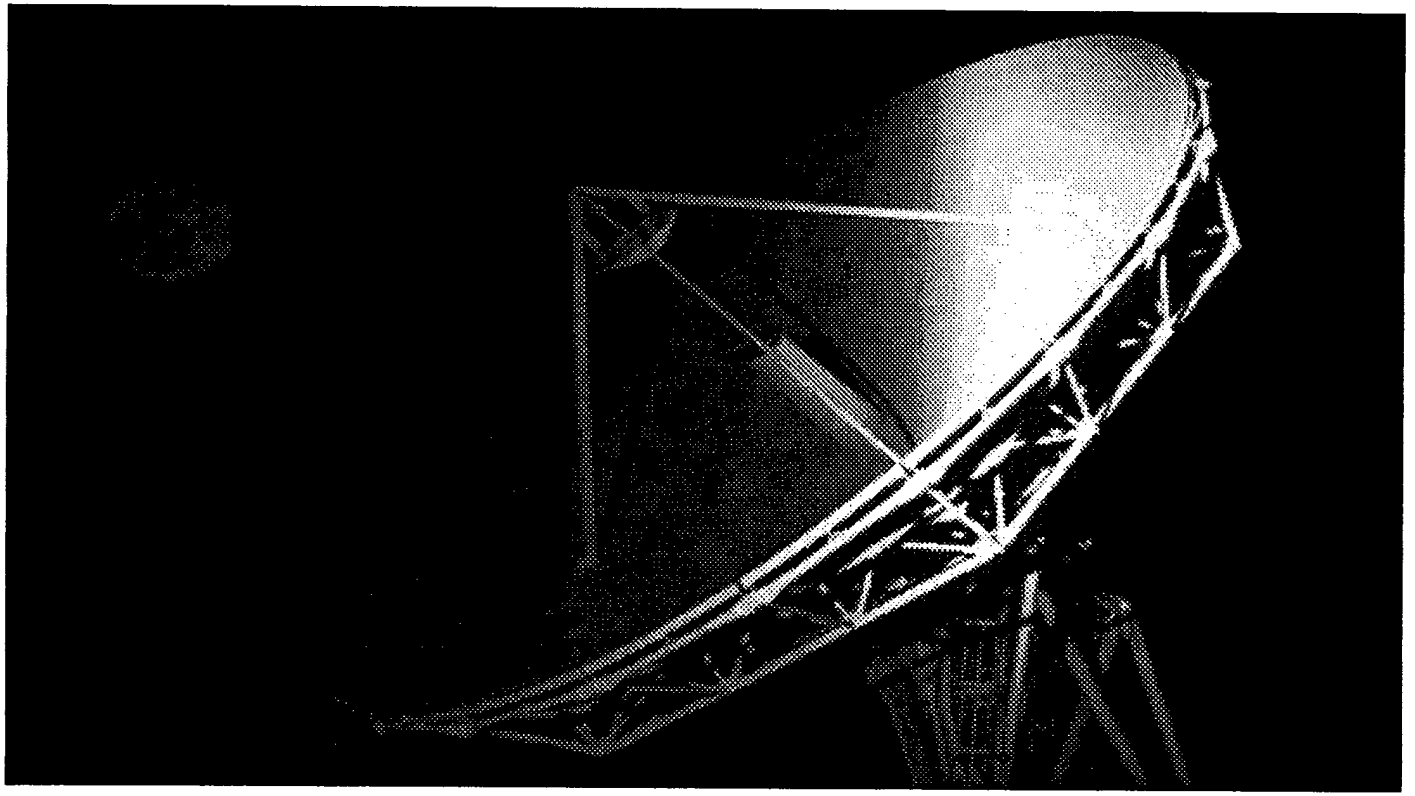
PROJ AWARD - 4TH QTR FY 98

ESTIMATED VALUE: $25 - $30M (5 YEARS)

TECHNICAL POC: CPT ROBERT OLSEN (520) 533-3600

CONTRACT POC: MS. HILDEGARD CHOATE (520) 538-7240

INFORMATION MISSION AREA
IMA III



PROGRAM DEFINITION

- **PROVIDE IMA SYSTEMS ENGINEERING, INTEGRATION, ANALYSIS, TECHNICAL SUPPORT, TRAINING, AND INSTALLATION**

- **SUPPORTS THE USACECOM AND USAISEC CUSTOMER BASE THROUGHOUT THE WORLD**

- **PROVIDERS CUSTOMERS A TOTAL SUPPORT PACKAGE AND CUSTOMIZED SOLUTIONS**

PROGRAM STATUS

- **CURRENT IMA II CONTRACT EXPIRES DEC 99**

- **IMA III CONTRACT STATEMENT OF WORK COMPLETED AND UNDER FINAL REVIEW**

- **PROJECTED REQUEST FOR PROPOSAL RELEASE - 1ST QTR FY 99**

- **PROJECTED AWARD - 4TH QTR FY 99**

CONTRACT REQUIREMENTS

- PERFORM SYSTEMS ENGINEERING
- EMPLOY SYSTEMS INTEGRATION TECHNIQUES
- PERFORM DETAILED ENGINEERING TO PRODUCE SOLUTIONS
- INSTALL ALL SYSTEM COMPONENTS
- PREPARE TEST DOCUMENTATION AND PARTICIPATE IN TESTS, INSPECTIONS AND EVALUATIONS
- PROVIDE TECHNICAL INSTRUCTION, DRAFTING & ILLUSTRATION SUPPORT

SUMMARY

TITLE: INFORMATION MISSION AREA (IMA III)

OBJECTIVE: PROVIDE INFORMATION SYSTEMS ENGINEERING AND TECHNICAL SUPPORT SERVICES

KEY MILESTONES:

PROJ RFP - 1ST QTR FY 99

PROJ AWARD - 4TH QTR FY 99

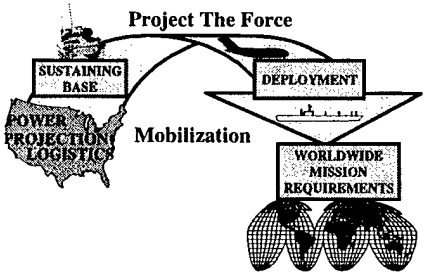
ESTIMATED VALUE: $300 -$350M (5 YEARS)

TECHNICAL POC: MS. SUSANNE DANA (520) 538-3045

CONTRACT POC: MR. HANK SPEAKMAN (520) 538-8248

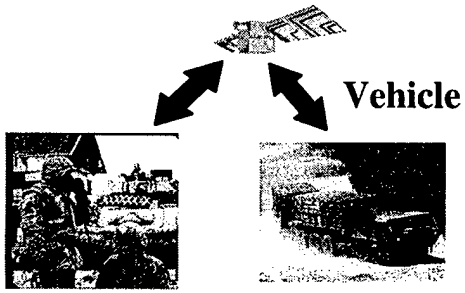
NOTES

PEO STAMIS OPPORTUNITIES



Transportation Management
Sustaining Base Automation
Global Messaging

MTS

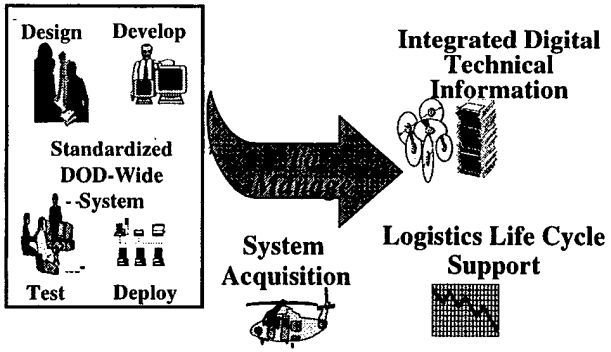


Vehicle Tracking

PEO STAMIS

Supporting the Warfighter with Effective/Efficient Combat Service Support

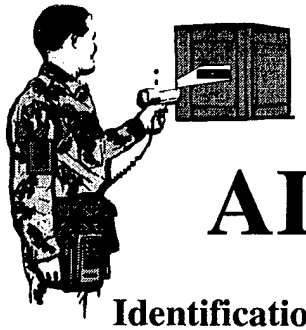
Joint Acquisition and Logistics Support



JCALS

Ms. Mary Kelly
Deputy PEO STAMIS

UNCLASSIFIED



AIT

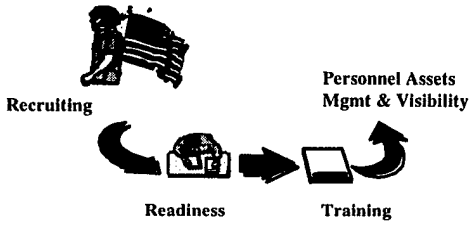
Identification Technology

Logistics Systems



CSS Strategic/Tactical Support

Personnel Management Systems



Distance Learning

SFAE-PS

04 May 1998

POINT PAPER

SUBJECT: Program Executive Officer, Standard Army Management Information Systems (PEO STAMIS) Opportunities to be presented at the May 1998 Advanced Program Briefing for Industry (APBI) Conference at Fort Monmouth, New Jersey.

OBJECTIVE: The PEO STAMIS Mission is to Acquire, Field and Sustain Key Combat Service Support (CSS) Information Systems to meet the Army's Force XXI objectives. Four Program Opportunities will be presented at the May 1998 APBI Conference:

- Movement Tracking System (MTS).
- STAMIS Computer Contract, Release III (SCC-III).
- Joint Computer-Aided Acquisition & Logistics Support (JCALS).
- Automatic Identification Technology, release II (AIT II).

FACTS:

1. MTS Program:

Overview: The MTS Program provides the capability for Users to identify/track the position and movements and communicate with Tactical Wheeled Vehicle Operators in order to provide positive control of common-user land transportation. This system is incorporates the technologies of satellite based Global Positioning System (GPS), AIT, Mapping systems, and Non-Line of Sight Communications. The MTS system will comply with Joint Technical Architecture (JTA), Y2K, and Open Architecture Standards. Funding approval and authority has been received for implementation in palletized load vehicles and other tactical wheeled vehicles.

Opportunity: Procurement of Commercial-of-the-Shelf (COTS) System Hardware (Hand-held, Vehicle-mounted and Control Station equipment), System Software (System operations, Mapping and Data Messaging) Support Services will include satellite airtime and system fielding (installation/integration, training, maintenance). Indefinite Delivery/Indefinite Quantity (IDIQ) Contract Milestones:

*RFP Release - Jun/Jul 98.
*Contract Award - Sep 98.
*Contract Value - $300-400 Million.

2. SCC Program:

Overview: SCC III is a follow-on IDIQ contract capability to an existing SCC II contract awarded in Oct 97. This program provides for the acquisition of COTS microcomputer hardware and related system software and support services for CSS functional areas. SCC-II program supports both STAMIS and Non-STAMIS applications. SCC-III is expected to be in-place during Year 2003 and will accommodate available technologies and support Army requirements at the conclusion of the current SCC-II contract.

Opportunity: Procurement of COTS hardware/software and support services for Army Information System Programs. Systems will comply with JTA, Y2K and Open Architecture Standards. Hardware includes Desktop/Laptop computers, Servers, and Peripherals. Software includes operating system packages and system communications. Support Services include system fielding support (surveys, installation/integration/maintenance, and special studies).

IDIQ Contract Milestones: *RFP Release - 3Q FY 2002.
*Contract Award: 1Q03.

*Contract Value: $500-700M.

3. JCALS Program:

Overview: JCALS provides digital environments to automate the management of life-cycle support for weapon systems and other acquisition programs. JCALS applications include Data Management concepts, technical documentation automation, and materiel acquisition management applications. This program provides for hardware/software architectures (JTA/COE and C2 compliant) and support concepts for the Joint military services. Limited capability of the Joint Technical Manual is expected during FY 98, full capability in FY 99, and over 400 sites fielded by 2004. JCALS infrastructures were initially deployed in FY96, with 14,000 users at 47 sites, and an expectation of 30,000 users during system life cycle out to 2014.

Opportunity: Acquisition of COTS hardware (client-server systems with peripherals), related software (operating systems, communications, office automation, security), and support services (system fielding/integration, site preparation, and communications systems upgrades/installation). The JCALS system will comply with JTA, Y2K and Open Architecture Standards.

IDIQ Contract Milestones:

COTS acquisition (Firm Fixed Price):
*Draft RFP - 4Q00; Final RFP - 1Q01.
*Contract Award - 2Q01.
*Contract Value - $20-50M.

Site Preparation (Time and Materials) :
*Draft RFP - 4Q99; Final RFP - 1Q00.
*Contract Award - 2Q00.
*Contract Value - $5-10M.

4. AIT Program:

Overview: AIT provides an IDIQ contract capability for acquisition of automated equipment to provide for the capture/collection of logistical data. This includes Issue, Receipt, Turn-in, Inventory, Storage and Shipment of materiel. AIT equipment is currently being fielded to STAMIS and Non-STAMIS programs via the existing AIT I contract awarded in Mar 94 and a RFID contract in Aug 97. The AIT II Contract will be a follow-on procurement identity for COTS hardware, software and support services.

Opportunity: Procurement of COTS hardware/software and support services for AIT implementation. Hardware for this CSS Enabling Technology will include Portable Data Collection systems, Bar Code systems (scanners, readers, printers), Voice Recognition Data Collection Terminals, and Wireless Radio Frequency Networks. Software includes Bar Code applications and Data Collection programs. Support Services include site surveys, equipment fielding, and system integration.

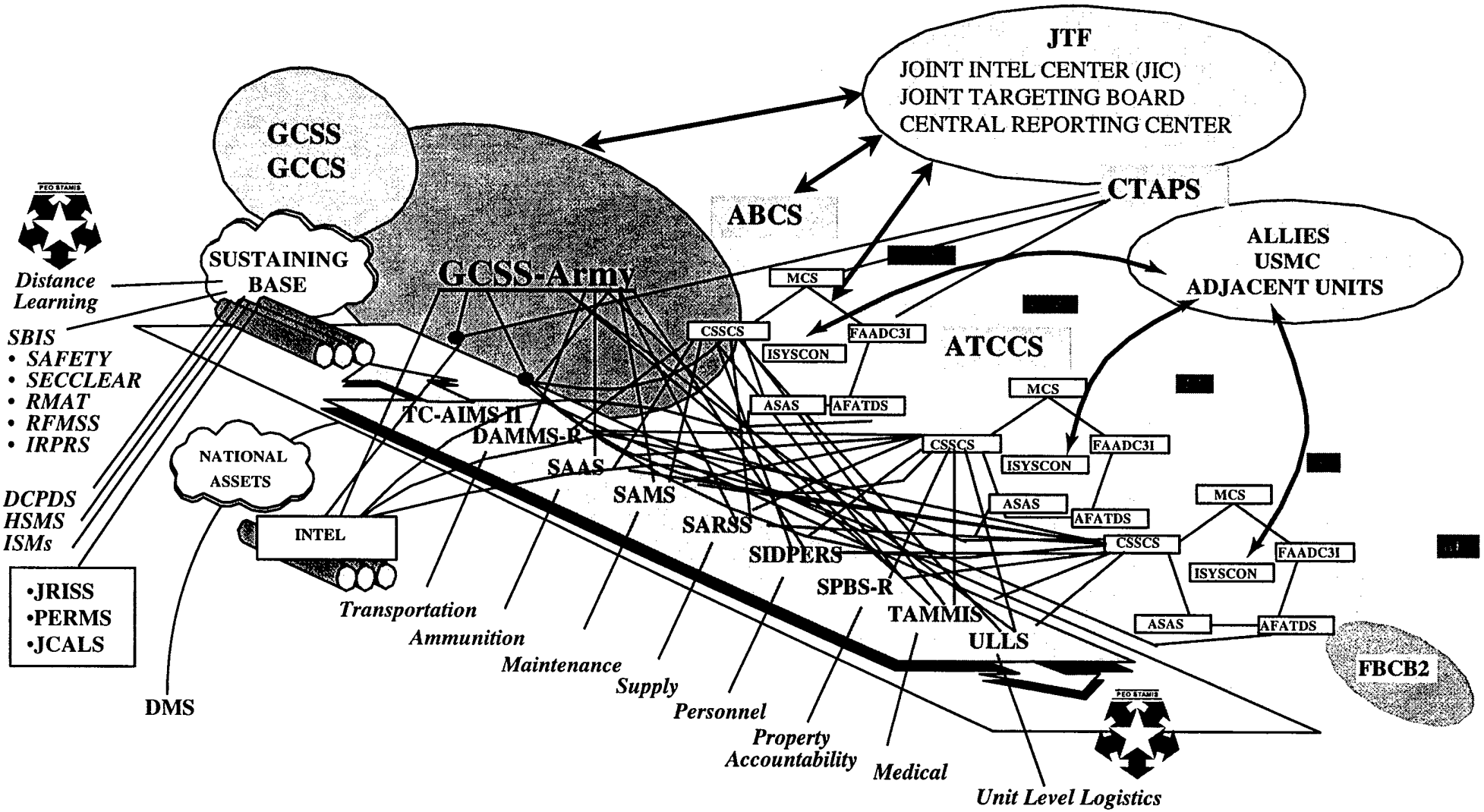
IDIQ Contract Milestones:
*RFP Release - Aug 98.
*Contract Award - Dec 98.
*Contract Value: $150-250M.

BRIEFER: Ms. Mary Kelly, Deputy PEO STAMIS, DSN 656-4200, Email: kellym@peostamis.belvoir.army.mil

MARY D. KELLY
Deputy PEO STAMIS

WHAT IS UNDER PEO STAMIS MANAGEMENT

Critical Combat Service Support Systems



PROGRAM EXECUTIVE OFFICER STANDARD ARMY MANAGEMENT INFORMATION SYSTEMS (PEO STAMIS)

MISSION

- *ACQUIRE / FIELD / SUSTAIN* KEY ARMY *INFORMATION SYSTEMS*
- *MANAGE INFORMATION SYSTEMS* TO MEET THE ARMY'S *POWER PROJECTION* GOALS
- LEVERAGE BUSINESS *PROCESS IMPROVEMENTS* AND KEY *ENABLING TECHNOLOGIES* TO ENHANCE READINESS

OUR CUSTOMER





MOVEMENT TRACKING SYSTEM (MTS)

SYSTEM DEFINITION

- **MTS PROVIDES:**
  - **The Capability to Identify Position, Track Progress, and Communicate with Tactical Wheeled Vehicle Operators**
  - **A Satellite-Based Tracking & Communications System**
  - **Positive Control of common user Land Transport Assets**
  - **The Ability To Protect, Divert, Reroute Assets/Supplies**
  - **The Incorporation of Global Positioning System (GPS), Automatic Identification Technology (AIT), Mapping Technologies and Non-Line-of-Sight Communications**
- **MTS WILL BE USED TO SUPPORT BOTH PEACETIME MISSIONS AND WARTIME OPERATIONS**

MOVEMENT TRACKING SYSTEM

SYSTEM STATUS

- APPROVED OPERATIONAL REQUIREMENTS DOCUMENT (ORD)
- INITIAL AUTHORITY AND FUNDING OBTAINED FOR MTS ON PALLETIZED LOAD SYSTEM VEHICLES
- ADDITIONAL AUTHORITY AND FUNDING OBTAINED FOR OTHER TACTICAL WHEELED VEHICLES
- FINALIZING RFP/SOW FOR MTS CONTRACT AWARD
  - 5 Year IDIQ Contract
  - 3 Additional Years for Technical Support & Maintenance



MOVEMENT TRACKING SYSTEM
REQUIREMENTS

- SATELLITE BASED TRACKING SYSTEM
  - Hand-Held Mobile Unit
  - Vehicle Mounted Mobile Unit
  - Control Station
- WORLDWIDE ENVIRONMENT
  - Tactical And Non-Tactical/Garrison Operations
- JOINT TECHNICAL ARCHITECTURE (JTA), Y2K and OPEN ARCHITECTURE COMPLIANT SYSTEM
  - JTA Compliant Operating System
  - Mapping and Data Messaging Software
- SYSTEM SUPPORT SERVICES:
  - Satellite Air Time
  - Installation, Training and Maintenance
- PLANNED IMPROVEMENTS:
  - RF Tag Interface, Vehicle Diagnostics

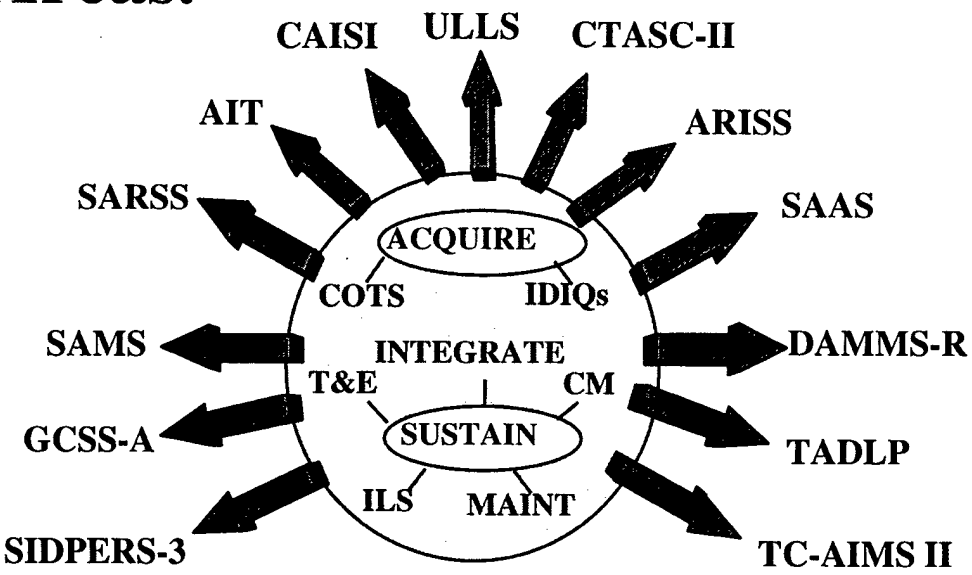
CONTRACT OPPORTUNITY

- **MOVEMENT TRACKING SYSTEM (MTS)**
- **OBJECTIVE: To Procure Movement Tracking System Commercial Off-The-Shelf (COTS) Hardware, Software, and Support Services for Tactical Wheeled Vehicle Programs**
- **PROPOSED CONTRACT TYPE:**
  - **Indefinite Delivery/Indefinite Quantity (IDIQ)**
- **KEY MILESTONES:**
  - **RFP Release: June/July 1998**
  - **Contract Award: August/September 1998**
- **ESTIMATED VALUE: $300 - 400 Million**
- **POC NAMES/TELEPHONE NUMBERS:**
  - **PM MTS - Mr. Herb Andresen, (804) 734-6047**
  - **KO - Mr. Kevin Sommer, (703) 325-3346**

STAMIS COMPUTER CONTRACT (SCC-III)

SYSTEM DEFINITION

- **SCC-III PROVIDES:**
  - **An IDIQ Contract Capability to Acquire COTS Microcomputer Systems for Combat Service Support Logistics (Transportation, Supply, and Maintenance) and Personnel Functional Areas.**
- **SCC-III SUPPORTS BOTH STAMIS and NON-STAMIS APPLICATION SOFTWARE**



CURRENTLY SUPPORTED FUNCTIONAL COMMUNITIES



STAMIS COMPUTER CONTRACT

STATUS

- CURRENT SCC-II CONTRACT AWARDED IN OCT 97
- 5 YEAR IDIQ CONTRACT
  - Notebooks (Basic and Multimedia, Both - 166 Mhz)
  - Desktop - 233 Mhz
  - Servers (Low End - 233 Mhz, High End - 266mhz)
  - Software
  - Support Services
  - 3 Additional Years On Tech Support & Maintenance
  - Not To Exceed - $470 Million
- SCC-III
  - Projected for Year 2003 Award
  - Contract will be structured to accommodate the Available Technologies and the Needs of the Army at the conclusion of the current SCC-II Contract

STAMIS COMPUTER CONTRACT

REQUIREMENTS

- COMMERCIAL, STATE-OF-THE-ART TECHNOLOGY AT CLOSURE OF THE SCC-II CONTRACT
  - Hardware: Desktops, Laptops, Servers, Peripherals
  - Software: Operating Systems, Communications
  - Support Services: Site Surveys, Integration, Studies
- OPERATIONAL ENVIRONMENTS
  - Tactical and Non-Tactical
  - Worldwide
- IN SUPPORT OF
  - Current Army STAMIS Community Programs
  - Projections for New Army STAMIS Programs
- JOINT TECHNICAL ARCHITECTURE (JTA), Y2K and OPEN ARCHITECTURE COMPLIANT SYSTEMS

CONTRACT OPPORTUNITY

- **STAMIS COMPUTER CONTRACT (SCC III)**
- **OBJECTIVE: To Acquire State-of-the-Art, Commercial Off-The-Shelf Hardware, Software and Support Services for Standard Army Management Information Systems**
- **PROPOSED CONTRACT TYPE:**
  Indefinite Delivery/Indefinite Quantity (IDIQ)
- **KEY MILESTONES:**
  RFP Release: 3Q FY 2002
  Contract Award: 1Q FY 2003
- **ESTIMATED VALUE: $500 -700 Million**
- **POC NAMES/TELEPHONE NUMBERS:**
  PO STACOMP - Mr. Bob Bradley, (703) 806-3956
  Acquisition POC - N/A



JOINT COMPUTER-AIDED ACQUISITION AND LOGISTICS SUPPORT (JCALS)

SYSTEM DEFINITION

- JCALS PROVIDES:
  - Digital Environment and Applications to Automate the Management of Life-Cycle Support for Weapon Systems
  - Distributed Data Environment to exchange Digital Logistical/Technical Information for all Services
  - Support for Business Process Re-Engineering and Continuous Process Improvement Efforts
- JCALS APPLICATIONS/SERVICES:
  - Global Data Manager, Reference Library and Workflow Manager
  - ADPE for Electronic Technical Manuals and Paperless Acquisition / Contracting



JCALS

STATUS

- JOINT SERVICES TECHNICAL MANUAL
  - Limited Capability In FY 98
  - Full Capability In FY99; 435 Sites by Year 2004
- JCALS INFRASTRUCTURE INITIALLY DEPLOYED DURING 1996
  - Interfaces with up to 40 Legacy Systems
  - Currently installed with 14,000 Users at 47 Sites
  - Security Protection to C2 (Sensitive - Unclassified)
  - Utilizes DEC/HP/SUN/NT Servers
- COMMON OPERATING ENVIRONMENT (COE) COMPLIANT AS OF 2 MAR 98



JCALS

REQUIREMENTS

- COMMERCIAL OFF-THE-SHELF (COTS) HARDWARE AND SOFTWARE
  - Hardware: Client-Server Systems and Peripherals
  - Software: Operating Systems, Communications, Office Automation, Security
- SUPPORT SERVICES
  - System Integration and Installation
  - Communications Installation & Upgrades
  - Site Preparation
- OPERATIONAL ENVIRONMENTS
  - Multi-Service - Worldwide Operations
  - Sustaining Base
- JOINT TECHNICAL ARCHITECTURE (JTA), Y2K and OPEN ARCHITECTURE COMPLIANT SYSTEMS

CONTRACT OPPORTUNITY

- **JCALS - SITE PREPARATION**
- **OBJECTIVE: To Acquire Site Preparation Services for the Installation / Upgrade of LAN/WAN Backbone Systems, and Facilities Upgrade Services at JCALS Sites**
- **PROPOSED CONTRACT TYPE:**
  Indefinite Delivery/Indefinite Quantity (IDIQ) / T&M
- **KEY MILESTONES:**
  Draft RFP Release-4QFY99; Final RFP Release-1QFY00
  Contract Award - 2QFY00
- **ESTIMATED VALUE: $5 - 10 Million**
- **POC NAMES/TELEPHONE NUMBERS:**
  PM JCALS POC - Mr. John Kahrs, (732) 532-0400
  Acquisition POC - Ms. Donna Harris, (703) 325-6955



CONTRACT OPPORTUNITY

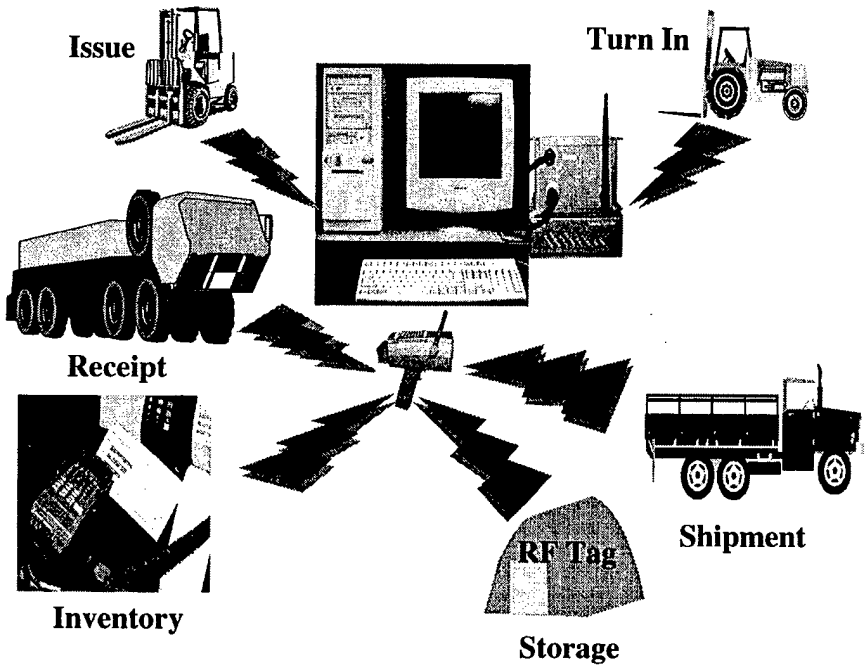
- JCALS - COTS HARDWARE & SOFTWARE
- OBJECTIVE: To Procure Commercial Off-The-Shelf Hardware and Software for Deployment and Installation of JCALS Capability
- PROPOSED CONTRACT TYPE:
  Indefinite Delivery/Indefinite Quantity (IDIQ) / FFP
- KEY MILESTONES:
  Draft RFP Release - 4QFY00; Final Release - 1QFY01
  Contract Award - 2QFY01
- ESTIMATED VALUE: $20 - 50 Million
- POC NAMES/TELEPHONE NUMBERS:

PM JCALS POC - Mr. John Kahrs, (732) 532-0400
Acquisition POC - Ms. Donna Harris, (703) 325-6955

AUTOMATIC IDENTIFICATION TECHNOLOGY (AIT)

SYSTEM DEFINITION

- **AIT PROVIDES:**
  - **An IDIQ Contract Capability for Acquisition of Automated Devices to enable the Capture, Collection, Retrieval and Processing of Source Data for Shipping, Storage and Receipt of Logistical Equipment**



SARSS
SAMS
SAAS
SPBS-R
MEDCOM
TC AIMS II
GCSS-A
MTS

PEO STAMIS

AIT

STATUS

- CURRENT AIT I CONTRACT AWARDED IN MAR 94
  - 5-Year IDIQ (FFP) Contract (NTE $250 Million):
    - Hardware
    - Software
    - Installation
    - Technical Engineering
    - Training
- RFD CONTRACT AWARDED IN AUG 97
  - 3-Year IDIQ (FFP) Contract (NTE $112 Million):
    - Hardware
    - Software
    - Documentation
  - 2-Additional Years for Training, Technical Engineering Services and Maintenance



AIT

REQUIREMENTS

- COMMERCIAL OFF-THE-SHELF TECHNOLOGY
  - Hardware: Portable Data Collection Equipment
    Bar Code Scanner/Readers/Printers
    Voice Recognition Data Collection Terminals
    RF Networks
  - Software: Bar Code Applications
    Data Collection Programs & Libraries
  - Support Services: Site Surveys, Extensions, Integration
- WORLDWIDE OPERATIONAL ENVIRONMENTS
  - Tactical and Non-Tactical, Peacetime and Wartime
  - Army STAMIS Community, DoD Organizations and Other U.S. Government Agencies



CONTRACT OPPORTUNITY

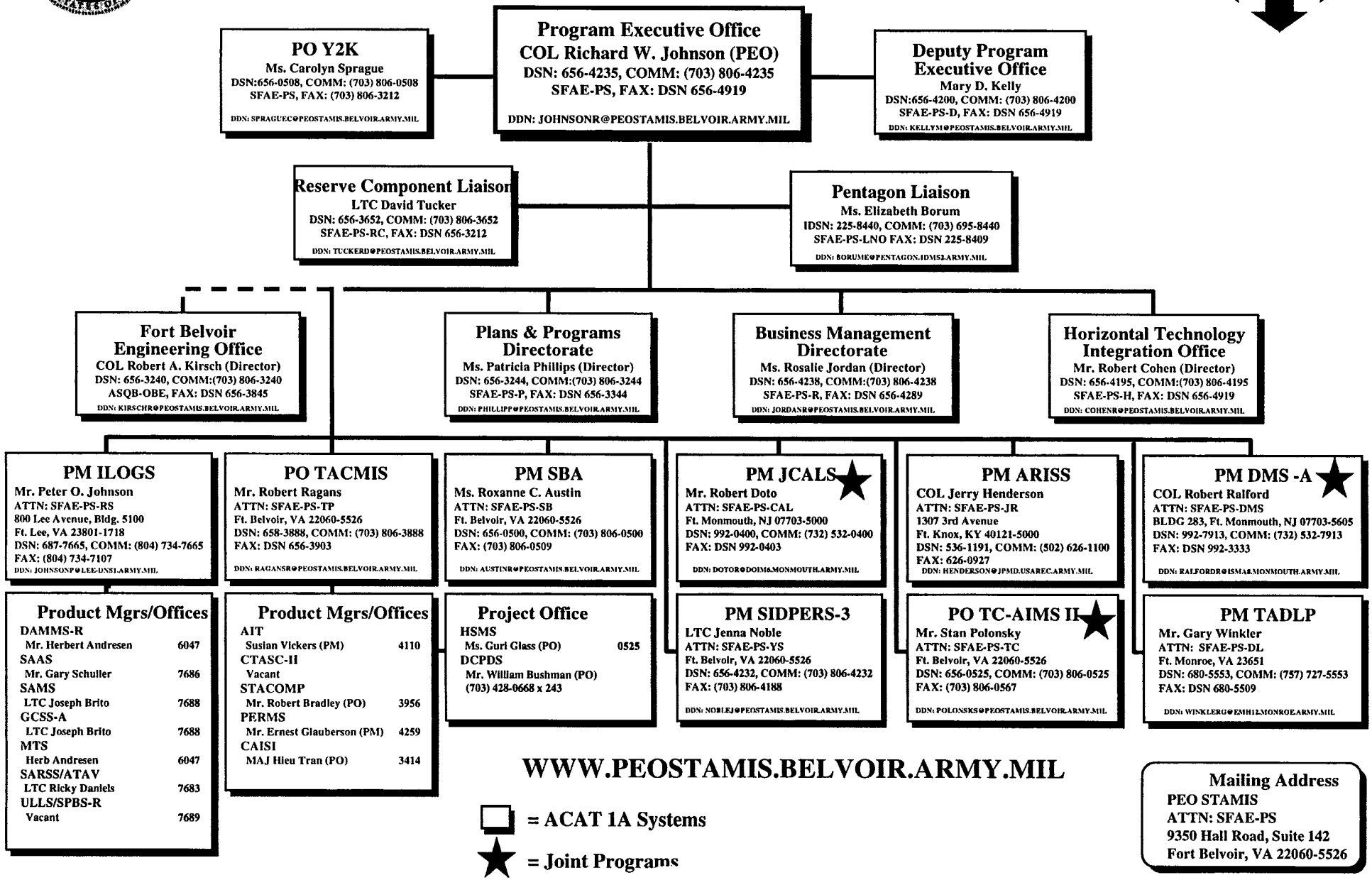
- AUTOMATIC IDENTIFICATION TECHNOLOGY
- OBJECTIVE: To Provide an Automatic Identification Technology (AIT) Procurement Capability to acquire Commercial Off-The-Shelf (COTS) Hardware, Software and Support Services.
- PROPOSED CONTRACT TYPE:
  Indefinite Delivery/Indefinite Quantity (IDIQ)
- KEY MILESTONES:
  RFP Release: August 1998
  Contract Award: December 1998
- ESTIMATED VALUE: $150 - 250 Million
- POC NAMES/TELEPHONE NUMBERS:
  PM AIT - Ms. Susian Vickers, (703) 806-4110
  KO - Ms. Gloria McGee (703) 325-2927

APBI-98
BACKUP SLIDES

- PEO STAMIS PROGRAMS (OVERVIEW)
- ADDITIONAL INFORMATION

Program Executive Office
Standard Army Management Information Systems

PEO STAMIS



WWW.PEOSTAMIS.BELVOIR.ARMY.MIL

□ = ACAT 1A Systems

★ = Joint Programs

Mailing Address
PEO STAMIS
ATTN: SFAE-PS
9350 Hall Road, Suite 142
Fort Belvoir, VA 22060-5526

PROJECT OVERVIEW

Logistics Systems

	ACAT	MDA
SAAS* ***Standard Army Ammunition System***	IIA	DA

Implements the Army's peace time and war time *ammunition management* system for stock control accounting and supply management Division to Theater

SARSS* ***Standard Army Retail Supply System***	IA	PEO STAMIS

SARSS-Objective supports the Army's *retail supply* operations and management.
SARSS-1: SSA/s. SARSS-2AD: Division, Sep. Bde., ACR Materiel Mgmt Centers
(SARSS-2AC/2AB: Corps/Theater MMCs; SARSS-Gateway: Formerly SARSS-OSC)

ULLS* ***Unit Level Supply System***	IA	PEO STAMIS

Provides a standardized system for Army unit *Prescribed Load List & maintenance* management. ULLS consists of Air, Ground, & S4 components.

ILAP* ***Integrated Logistics Analysis Program***	N/A	PEO STAMIS

Integrates automated *logistics management and financial data* for Commanders, Logisticians & Resource Managers at all echelons during peacetime, and wartime.

SAMS* ***Standard Army Maintenance Systems***	IA	PEO STAMIS

Automates weapon system and sub-component *readiness status, maintenance and related repair parts information and management* functions.

* Legacy Systems will integrate with GCSS-Army in FY98/99



PROJECT OVERVIEW

	ACAT	MDA
GCSS-Army *Global Combat Support System-Army*	IA	DA

Replaces Combat service support "stovepipes" with a modern integrated system and is the Army portion of the Global Combat Support System (GCSS). Supports the CSS functions of manning, arming, fixing, fueling, moving, and sustaining soldiers and their systems.

Personnel Management

SIDPERS-3 *Standard Installation/Division Personnel System*	IA	OSD

Supports field commanders in peace time and war time with accurate military personnel information to make decisions and effectively manage personnel assets.

ARISS *Army Recruiting Information Support Systems (formerly JRISS)*	IA	OSD

Provides DoD standard software tools and associated automation infrastructure to support the overall recruiting mission. It will aid Service recruiters with daily operations to meet new accession goals in an era of dwindling resources.

PERMS *Personnel Electronic Record Management System*	IA	DA

Replaces current paper/microfiche personnel files with digital images, eliminating duplicate records and providing optical digital imagery technology for Army records rqmts.

PROJECT OVERVIEW

Transportation Systems

	ACAT	MDA
TC-AIMS-II *Transportation Coordinators-Automated Information for Movement System II*	IA	OSD

A *joint* service migration system which provides an *integrated set of transportation applications* to facilitate movements management of *personnel, equipment* and *supplies* from home station to the conflict and back.

DAMMS-R *Department Army Movements Management System-Redesign*	IA	PEO STAMIS

Supports automated *movements management*, transportation operations, and transportation resources. Transitions to TC-AIMS II in FY98

MTS *Movement Tracking System (MTS)*	WRAP	DA

Provides the *location* of vehicles to track and communicate with vehicle operators, and *redirects* mission on a worldwide, near real-time basis.

Enabling Technologies

AIT *Automatic Identification Technology*	N/A	N/A

Provides Automatic Identification Technology (AIT) and Radio Frequency Identification (RFID) technology to *facilitate asset visibility/accountability*



PROJECT OVERVIEW

Continuous Acquisition & Logistics Support

	ACAT	MDA
JCALS *Joint Continuous Acquisition and Logistics Support*	IA	OSD

A Joint Services initiative to generate, process and exchange logistical/technical and acquisition information in *digital* form to manage *weapons system life cycle* support as they transition to a paperless environment.

Global Messaging

DMS-A *Defense Messaging System - Army*	IA	OSD

Facilitates and coordinates an *integrated message system* to replace today's Telecommunication Centers and AUTODIN Switching Centers with C2 messaging capability for all DOD locations - sustaining base to battlefield.

Training Technology

TADLP *Total Army Distance Learning Program*	IA	DA

Delivers standardized *individual, selected collective, and self-development training* to soldiers and units at the right place and right time through the *application of multiple electronic technologies.*

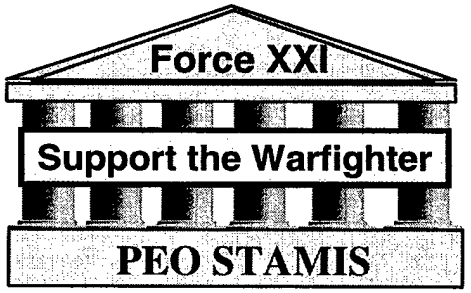
Power Projection

SBIS *Sustaining Base Information Services*	IA	DA

Modernizes sustaining base infrastructure and fields up to 15 *standard installation support applications* for power projection and power project support sites. *Reduces operating costs* and *supports mobilization and transition* processing.



SUMMARY

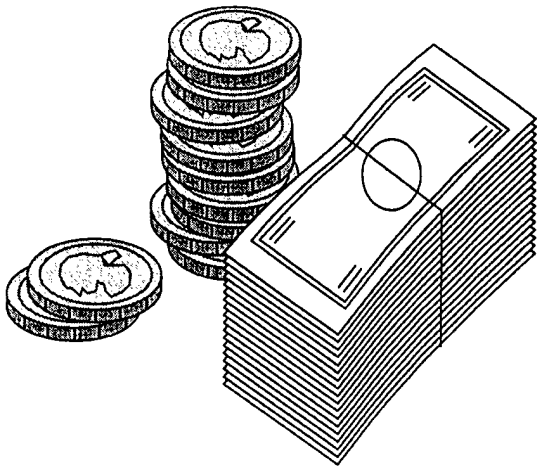


- **STAMIS SYSTEMS ARE CRITICAL TO *READINESS, MOBILIZATION, DEPLOYMENT AND SUSTAINMENT***
  - **Integrated Systems**
  - **Business Process Re-engineering**
  - **Software Management Best Practices**
  - **Sound Engineering Principles**
  - **DII/COE Standards**
  - **Enabling Commercial Technologies & Processes**

Faster ***Better*** ***Cheaper***

WHAT IS UNDER PEO STAMIS MANAGEMENT

- **KEY COMBAT SERVICE SUPPORT and BUSINESS SYSTEMS**
  - **Logistics systems**
  - **Personnel Mgmt Programs**
  - **Sustaining Base/Power Projection**
  - **Transportation Mgmt**
  - **Distance Learning**
  - **Computer-Aided Acquisition & Logistics Support**
  - **Automatic Identification Technology**



ARCHITECTURE COMPLEXITY

- **SYSTEMS MUST BE DESIGNED TO OPERATE EFFICIENTLY OVER A VARIETY OF COMMUNICATIONS MEDIA**
  - **40,000 logistics computers representing 7 systems, each with 60-100 interfaces**
  - **4,000 personnel system computers**
  - **12,500 mobile recruiting users**
  - **Source data automation via enabling technologies (Automatic Identification Technology, RFID, etc.)**
- **LIMITED TACTICAL COMMUNICATIONS FOR COMBAT SERVICE SUPPORT (CSS), BELOW BRIGADE LEVELS**



ARCHITECTURE CHALLENGES

- LEGACY HETEROGENEOUS OPERATING SYSTEM and HARDWARE
- YEAR 2000 INITIATIVES
- MAINTAIN DATA INTEGRATION & LEGACY INTERFACES WHILE MODERNIZING SYSTEMS
- SYSTEMS AND NETWORK ADMINISTRATION BY FUNCTIONAL USERS:
  - NO SIGNAL ASSETS BELOW BRIGADE
- COMMUNICATION AND DATA EXCHANGE BETWEEN UNCLASSIFIED and SECRET (MLS)



OUR APPROACH

- UTILIZE *TECHNOLOGY INSERTION*
  - Keep new ideas flowing
  - Utilize existing contracts (IDIQ / extended warranties)
- APPLY BUSINESS PROCESS *REENGINEERING*
- INVEST IN AREAS OF HIGH PAYOFF
  - Rapid application methodology
  - Reuse, commercial applications
  - Technologies
  - Commercial-Off-The-Shelf (COTS) hardware/software
  - SW Mgmt Best Practices & Sound Engineering Principle
  - Centralized system fielding and area-wide extensions
  - Emerging training concepts
- INCREASE OUTSOURCING: *RELY ON INDUSTRY*

PEO STAMIS

AN EXAMPLE
THE GCSS-ARMY PROGRAM

SPBS-R

ULLS-S4

SAMS-1

SAMS-2

SARSS-1

SARSS-2AD

ULLS-G

ULLS-A

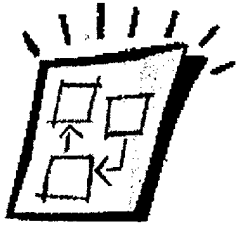
SAMS-I/ TDA

SAAS

SARSS-2AC/B

ILAP

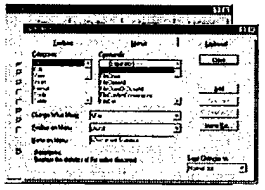
SARSS-GATEWAY



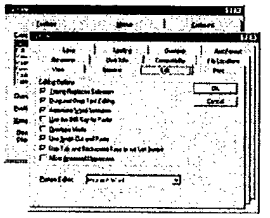
Designer/2000

BUSINESS PROCESS RE-ENGINEERING

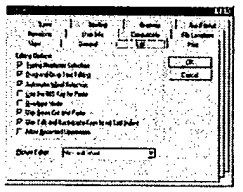
PRODUCT LINE MODULES



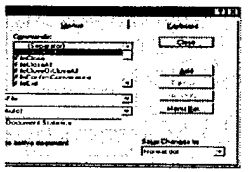
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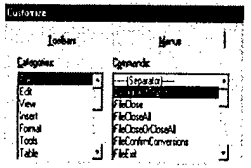
MAINTENANCE



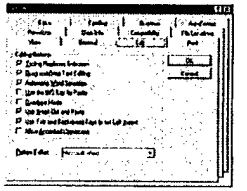
AMMO



IMMC



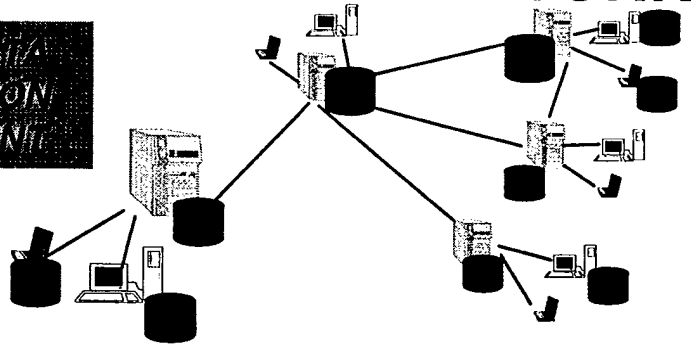
PROPERTY



MGMT

Microsoft WINDOWS NT

GCSS-ARMY SERVER NETWORK



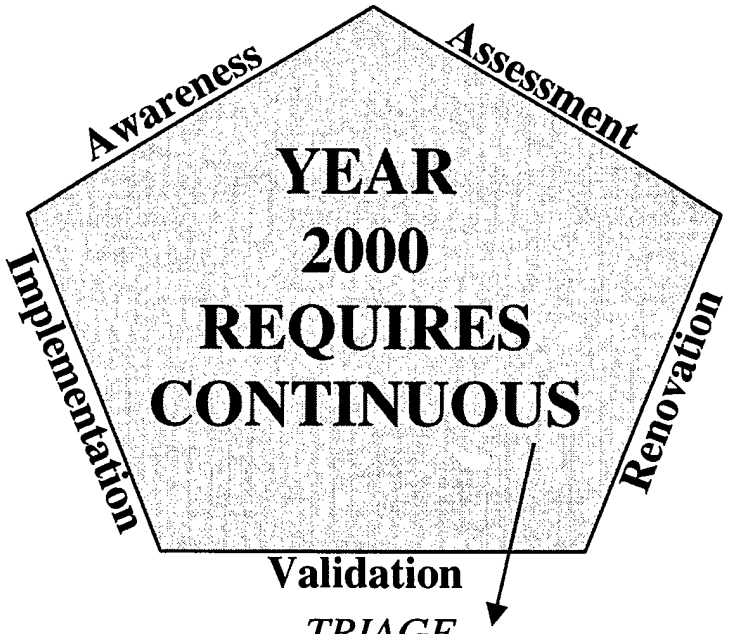
PEO STAMIS
Y2K Management Challenge

Y2K MANAGEMENT OF 47 SYSTEMS/MODULES + INFRASTRUCTURE
(0 COMPLIANT TODAY - 72% MISSION CRITICAL

ASSESS / TEST OVER 35 MILLION SLOC

60,000 FIELDED HARDWARE/ DEVICES TO BE TESTED

COORDINATION WITH 8 FUNCTIONAL PROPONENTS



TRIAGE
PRIORITIZATION
FUNDING
TESTING
RISK ASSESSMENT/MITIGATION
CONTINGENCY PLANNING
INTERFACE MANAGEMENT
FIELDING OF FIXES

315 INTERFACES REQUIRING INTERFACE AGREEMENTS & TESTING

570 VERSIONS COTS PRODUCTS

N-TIER CLIENT/SERVER ARCHITECTURES

NOTES

SESSION IV

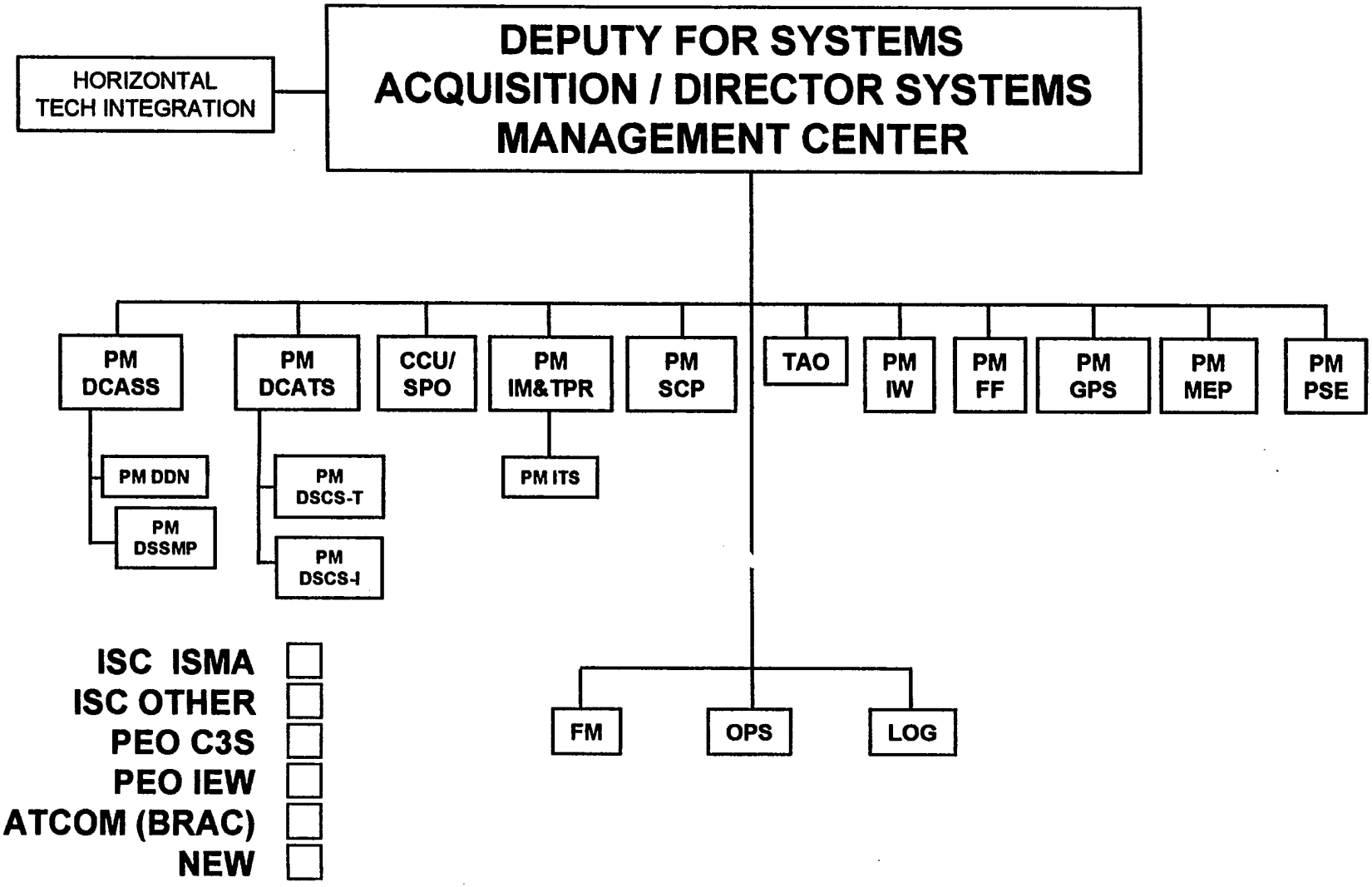
U.S. Army CECOM Systems Management Center

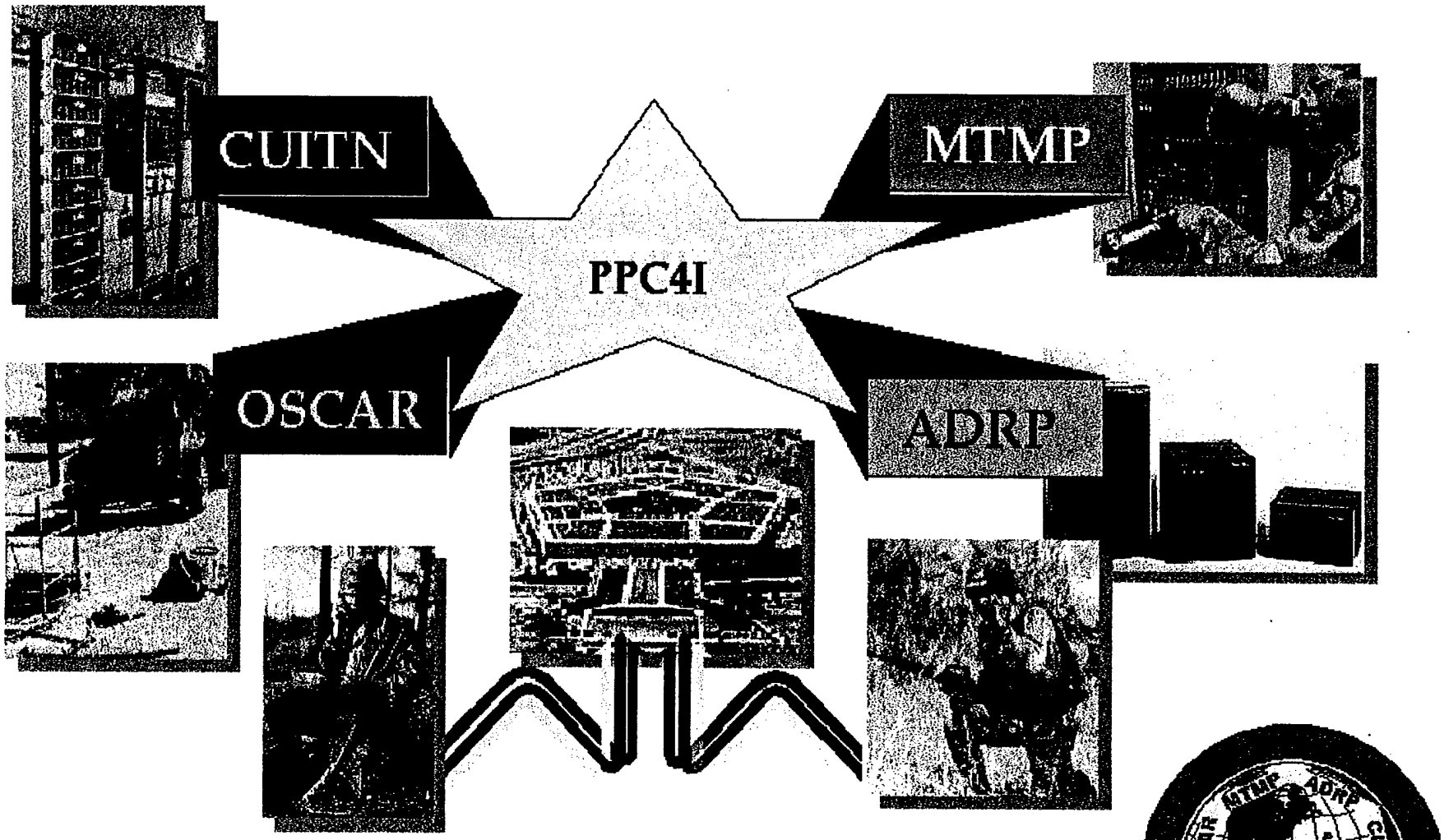


Ms. Maureen MacFarland
Deputy Director, Systems Management Center

UNCLASSIFIED

U.S. Army CECOM Systems Management Center



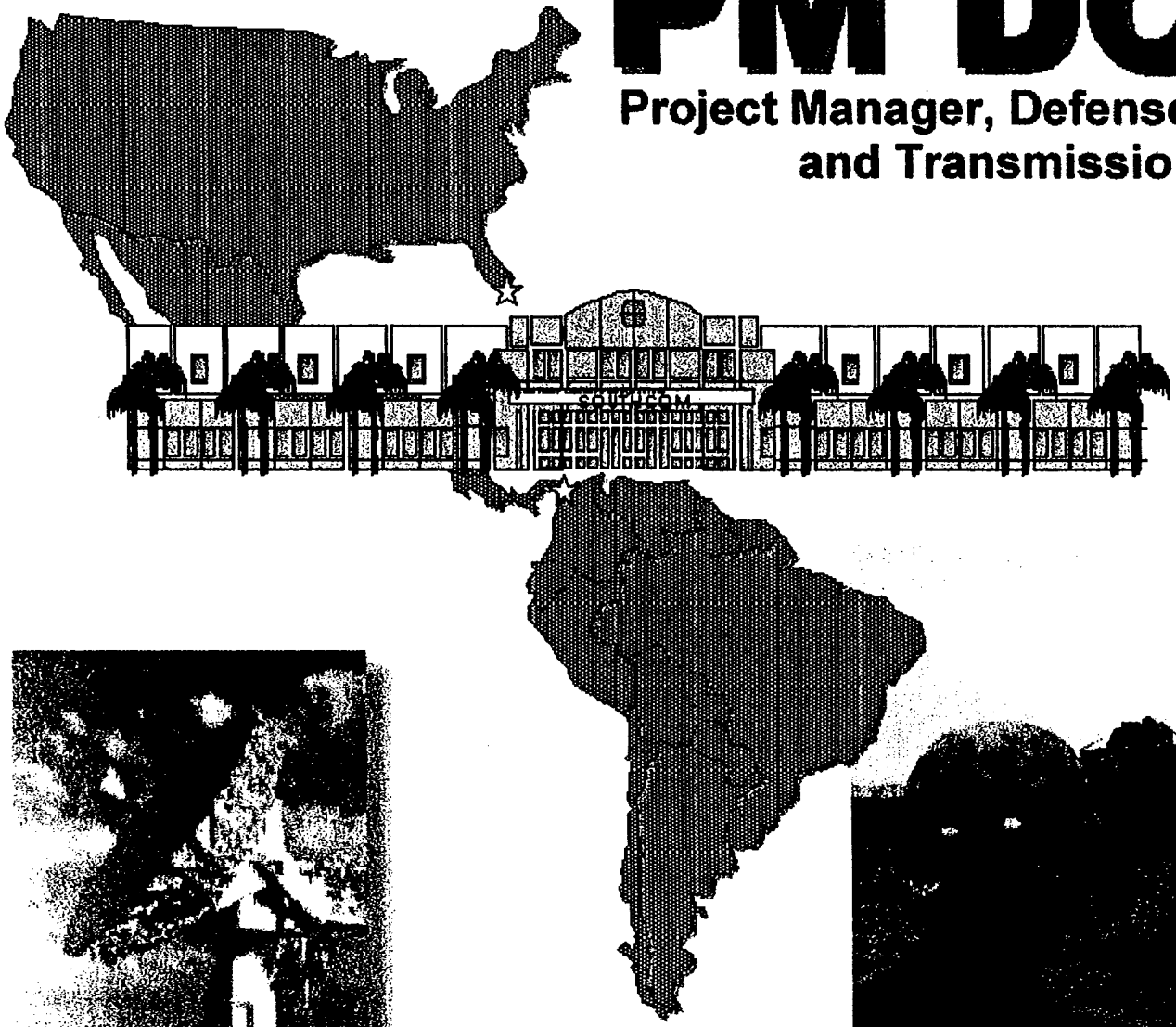


PM DCASS

Project Manager, Defense Communications & Army Switched Systems

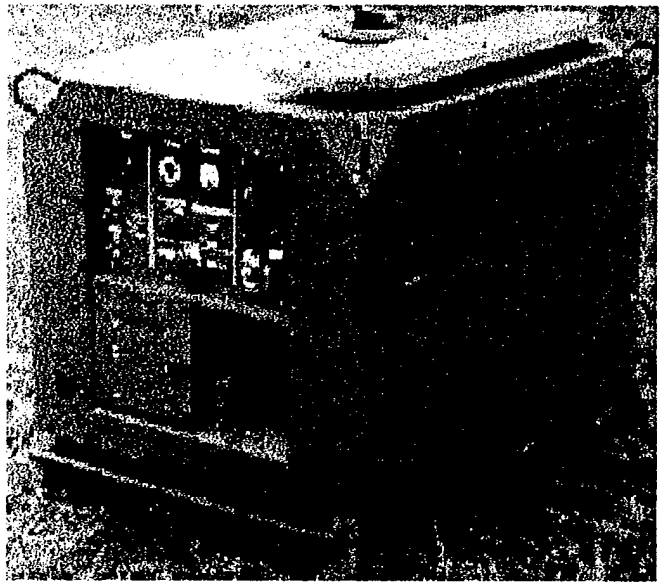
PM DCATS

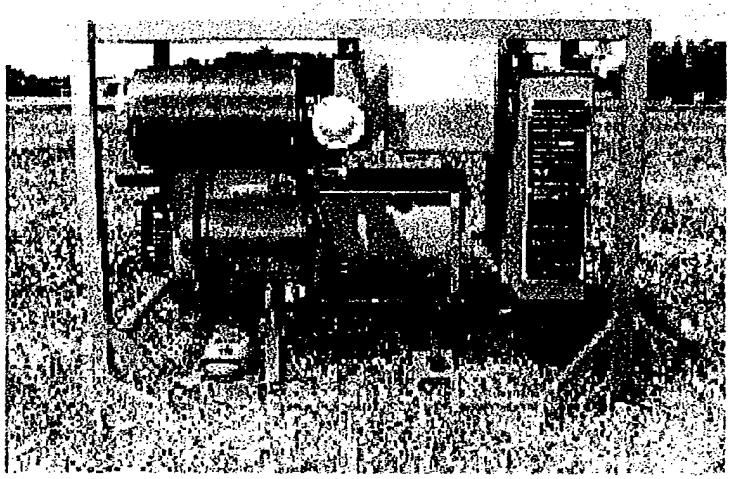
Project Manager, Defense Communications and Transmission Systems

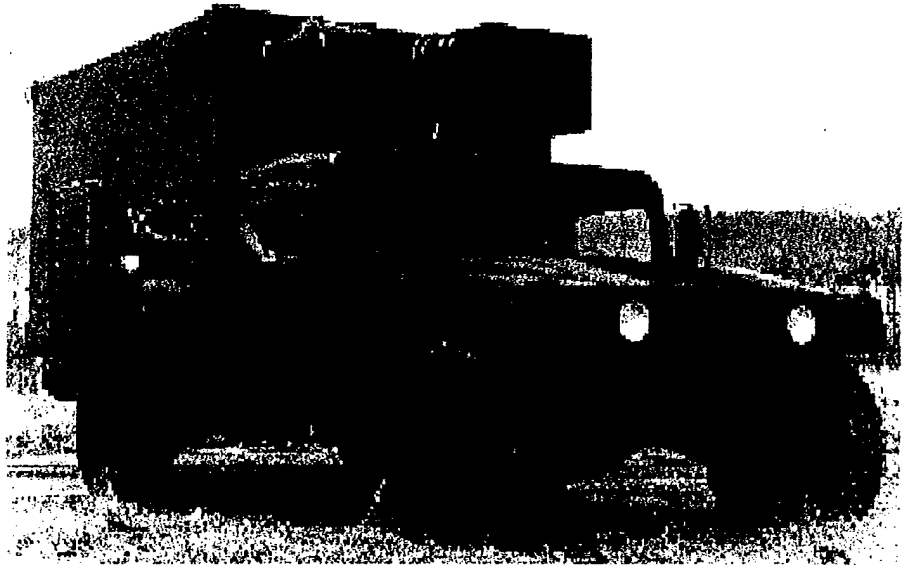








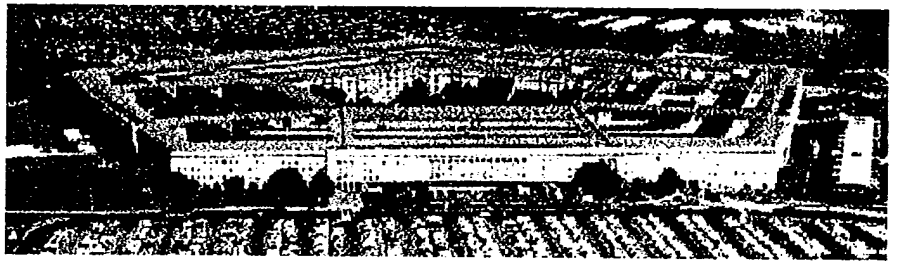




PM MEP

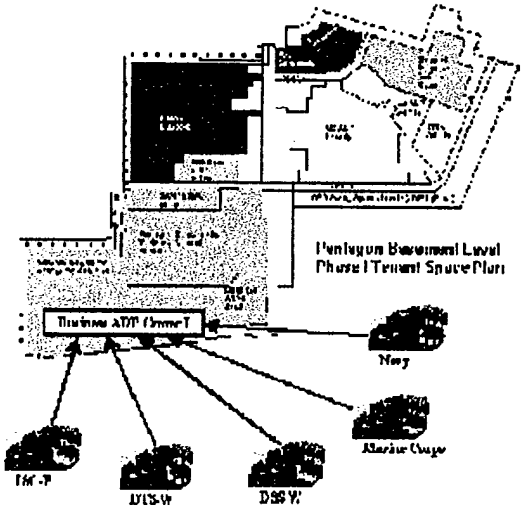
Project Manager
Mobile Electric Power

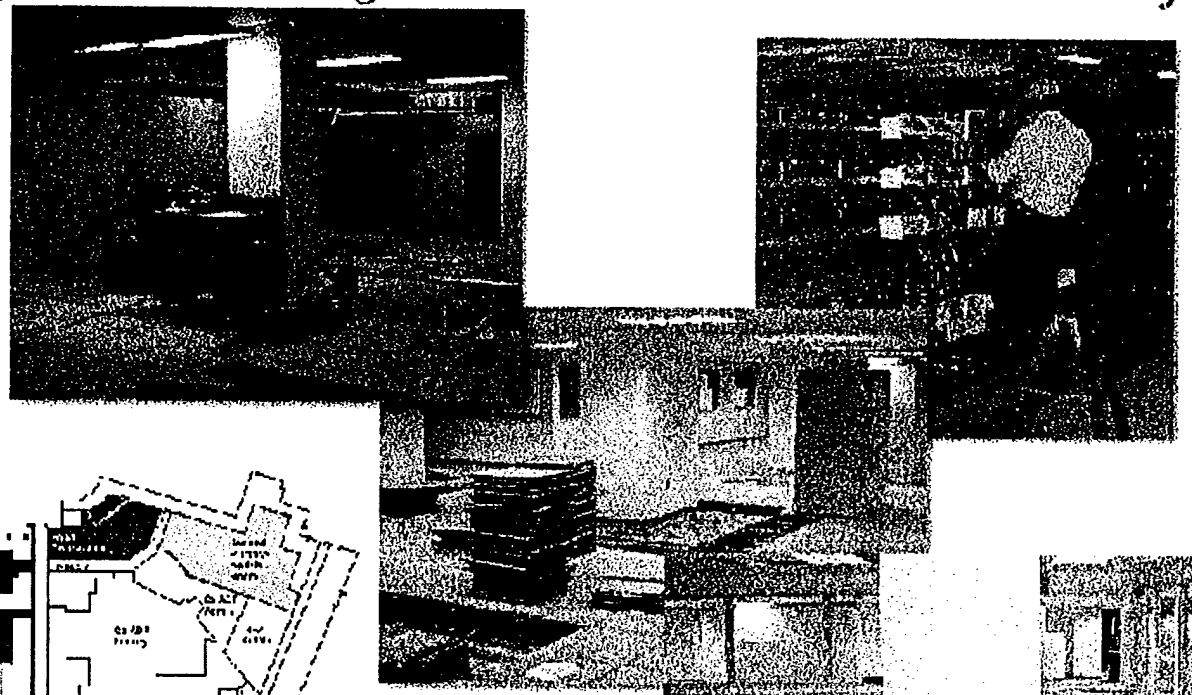
PM IM&T

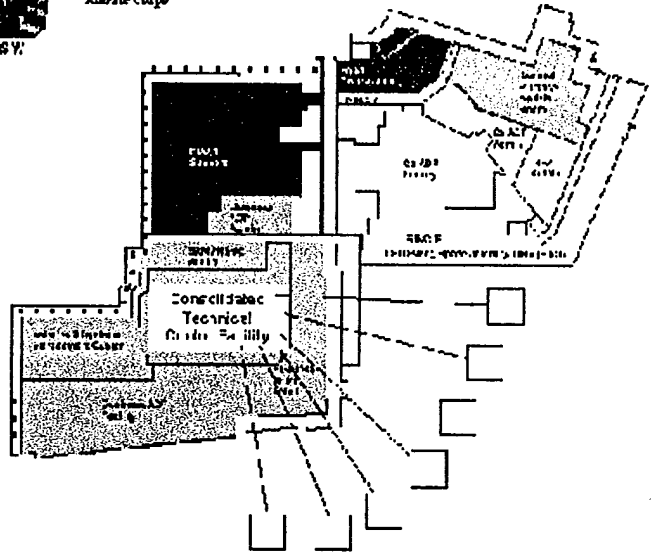


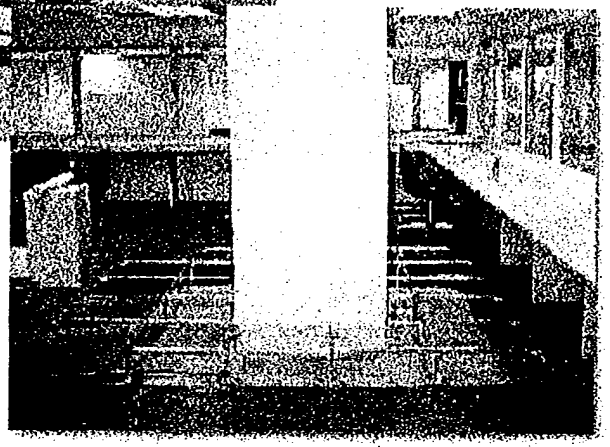
Project Manager

Pentagon Renovation Information Management and Telecommunications Project



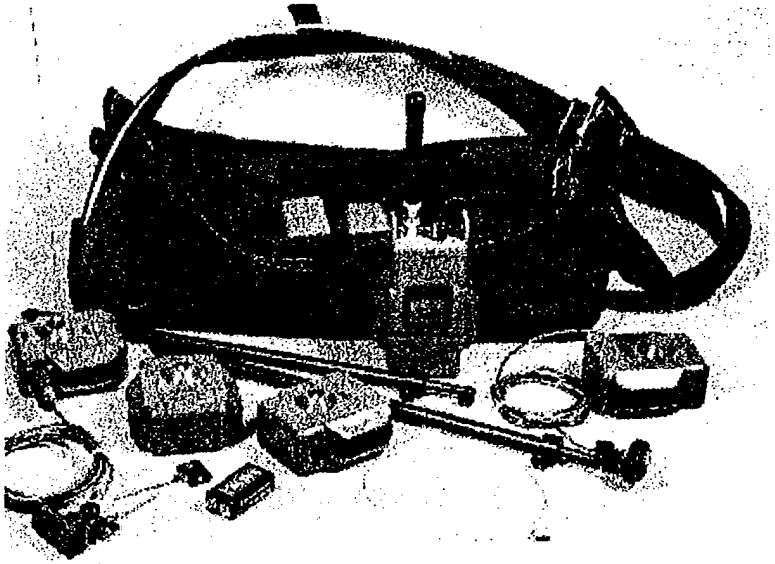


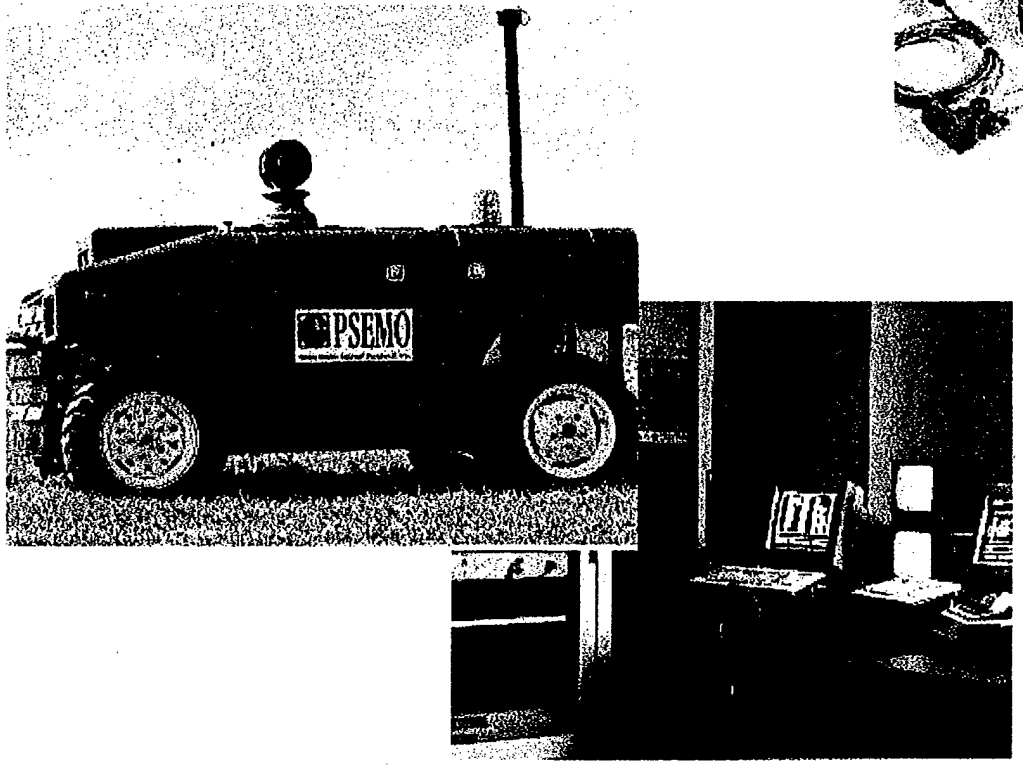


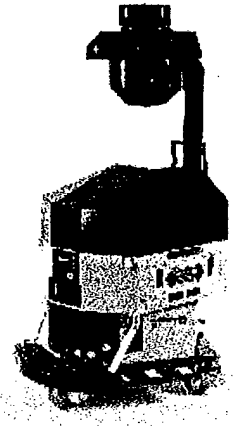


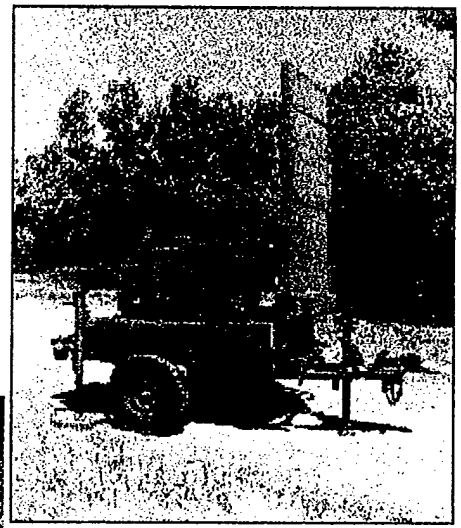
PM-PSE

Product Manager, Physical Security Equipment



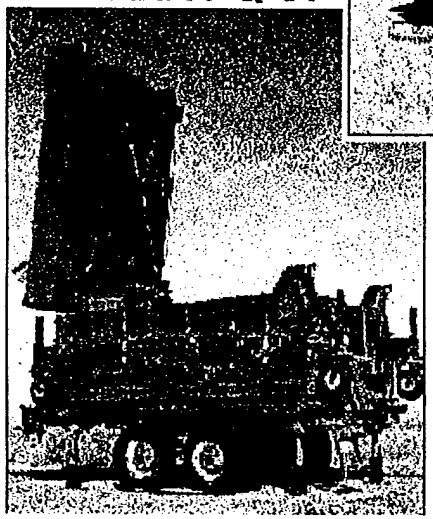






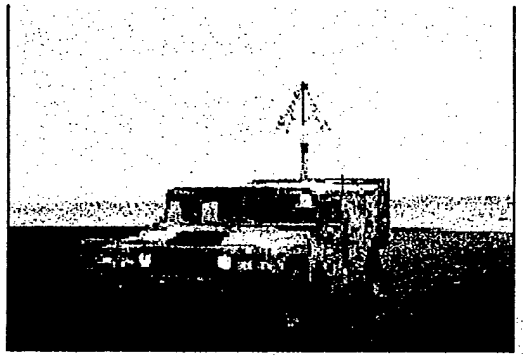


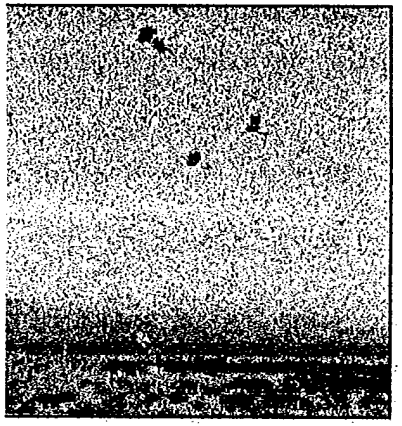
AN/TPQ-37

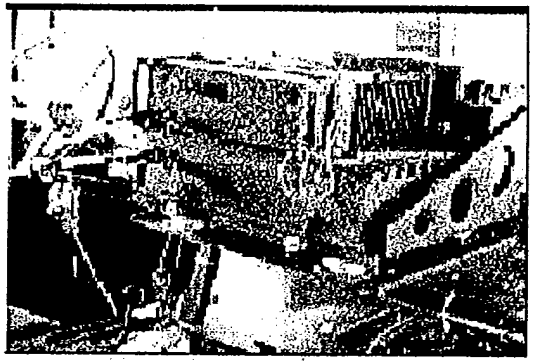


AN/TPQ-36

PM Firefinder

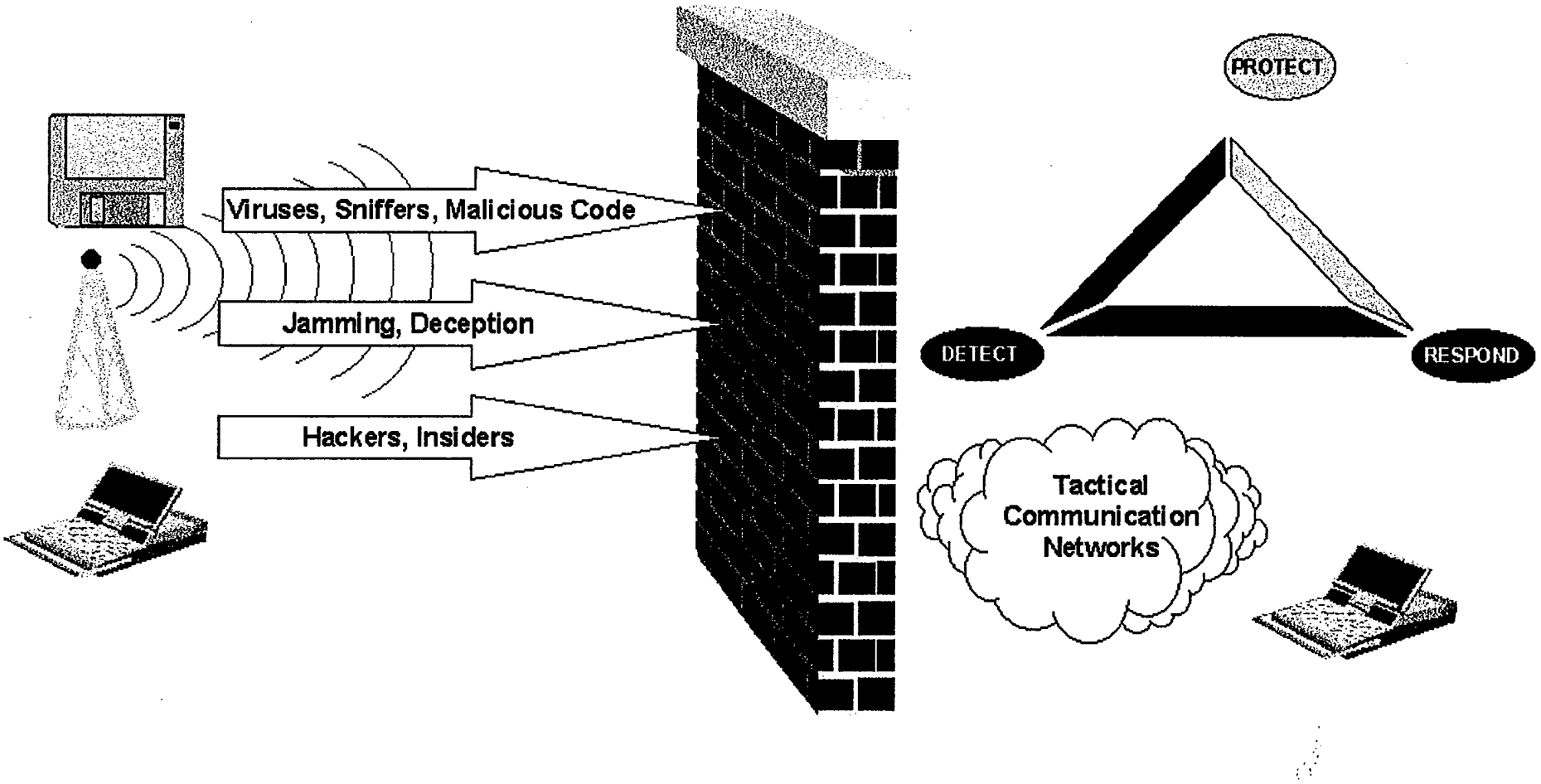






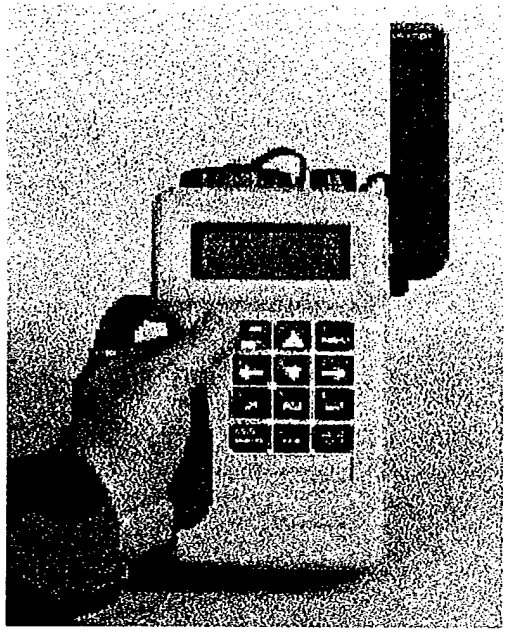
PM IW

Product Manager
Information Warfare





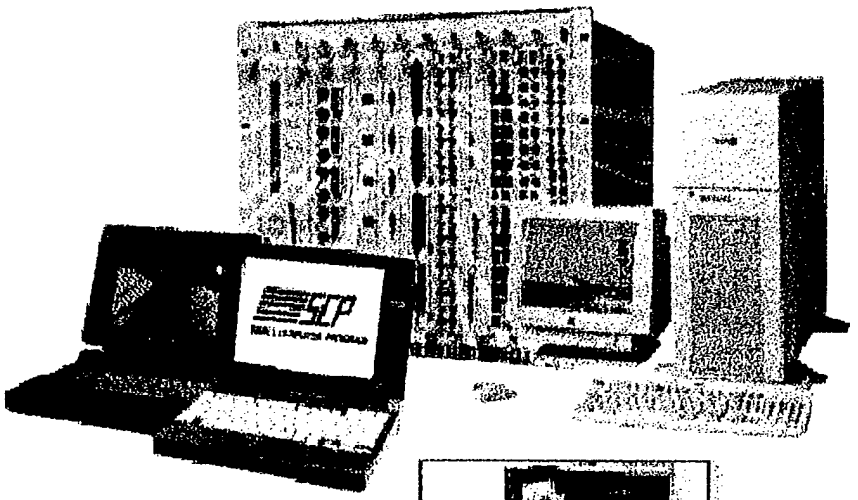




PM GPS

Product Manager, Global Positioning Systems



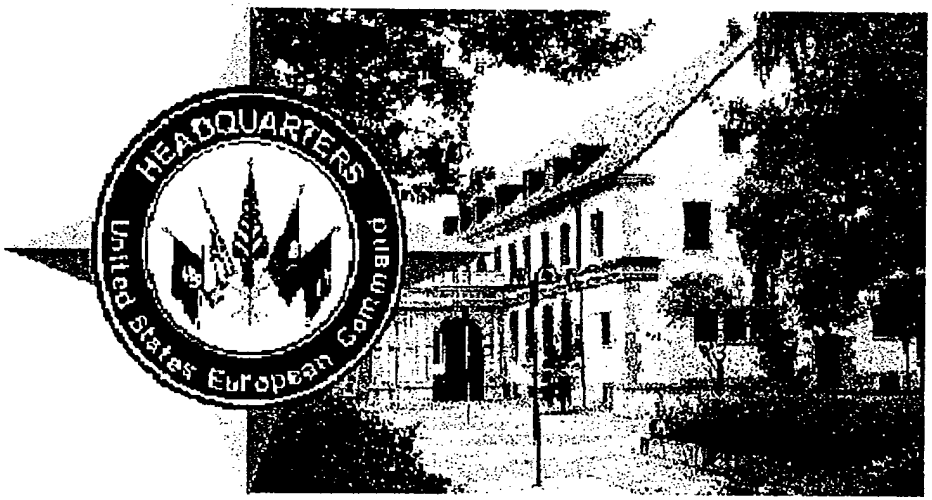




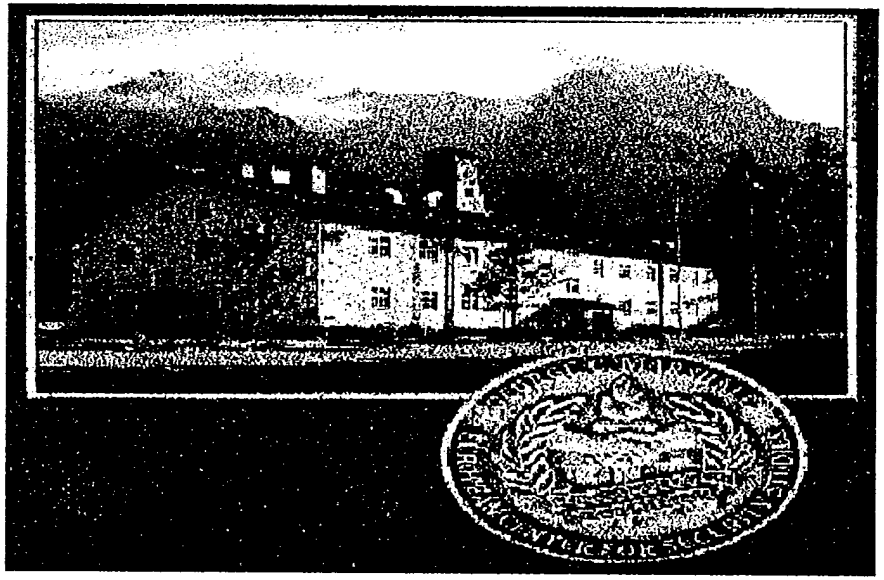


PM SCP

Product Manager
Small Computer Program

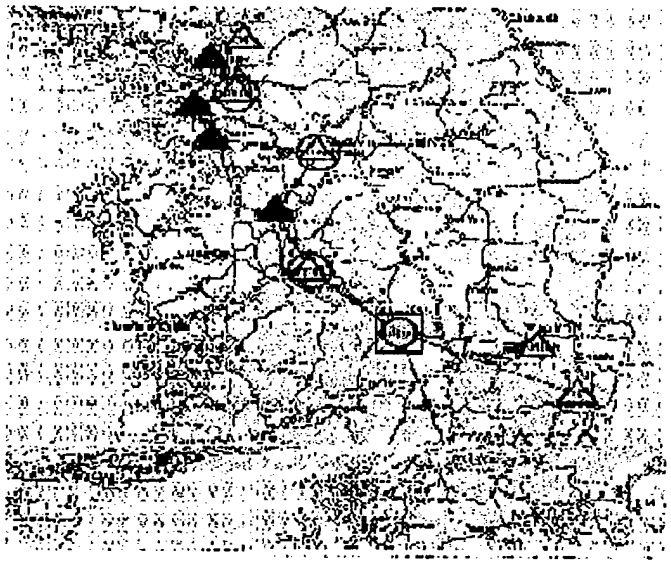


EUCOM COMMAND CENTERS PROGRAM (ECCP)



GEORGE C. MARSHALL CENTER (GCMC)

KOREAN NETWORK MANAGEMENT SYSTEM (KNMS)

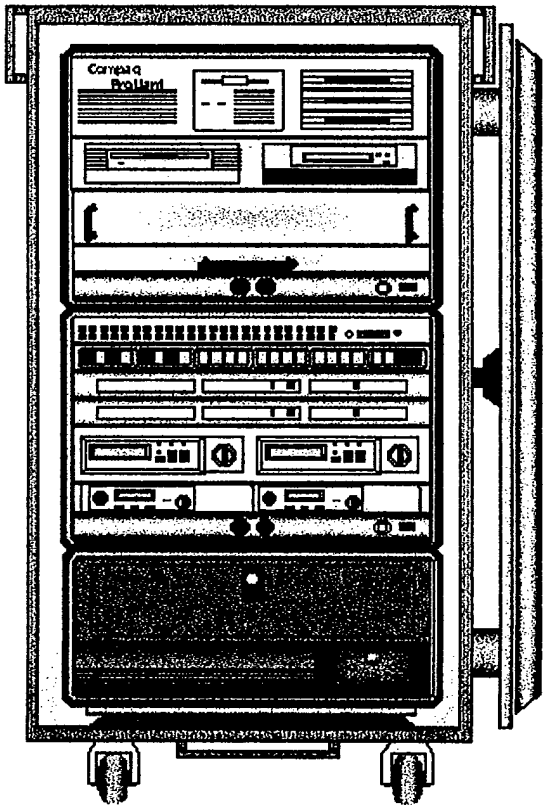


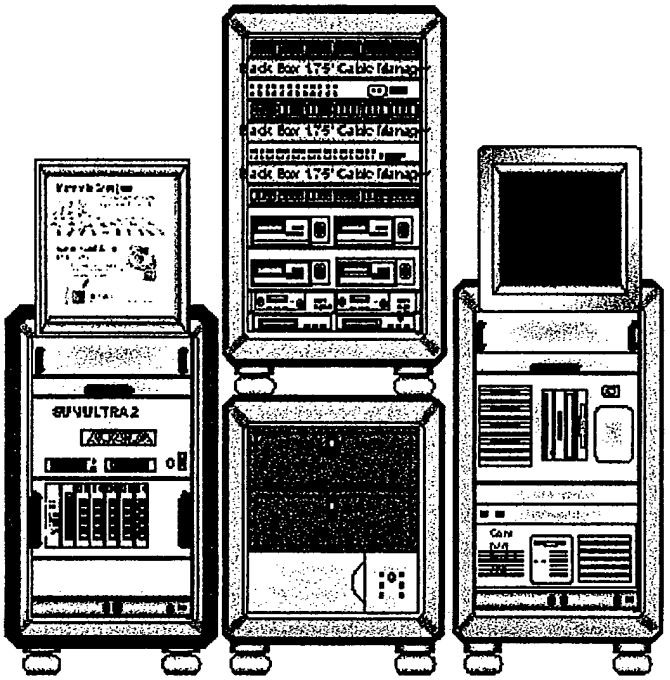
CCU/SPO

Command Center Upgrades/
Special Projects Office

Technology Applications Office

Hamilton Dual Door Equipment Safe





Transportable Wide Area Network Hub and DCIIS Server

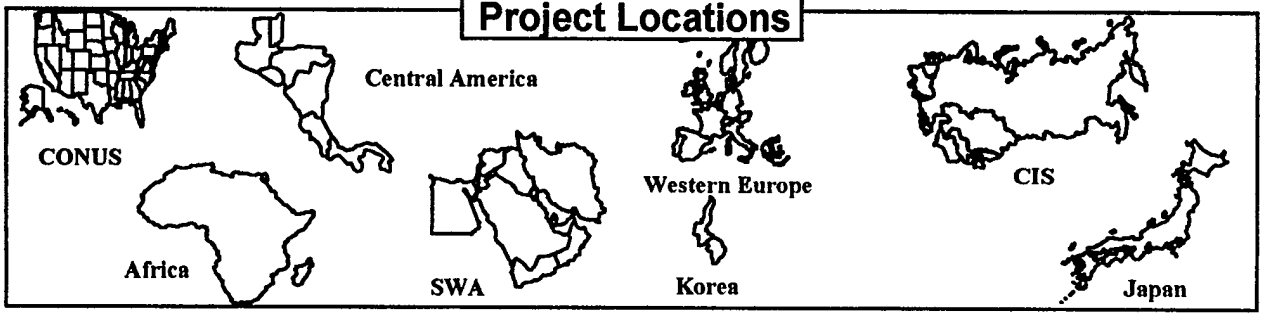
U.S. Army CECOM Systems Management Center

ACQUISITION ROLE

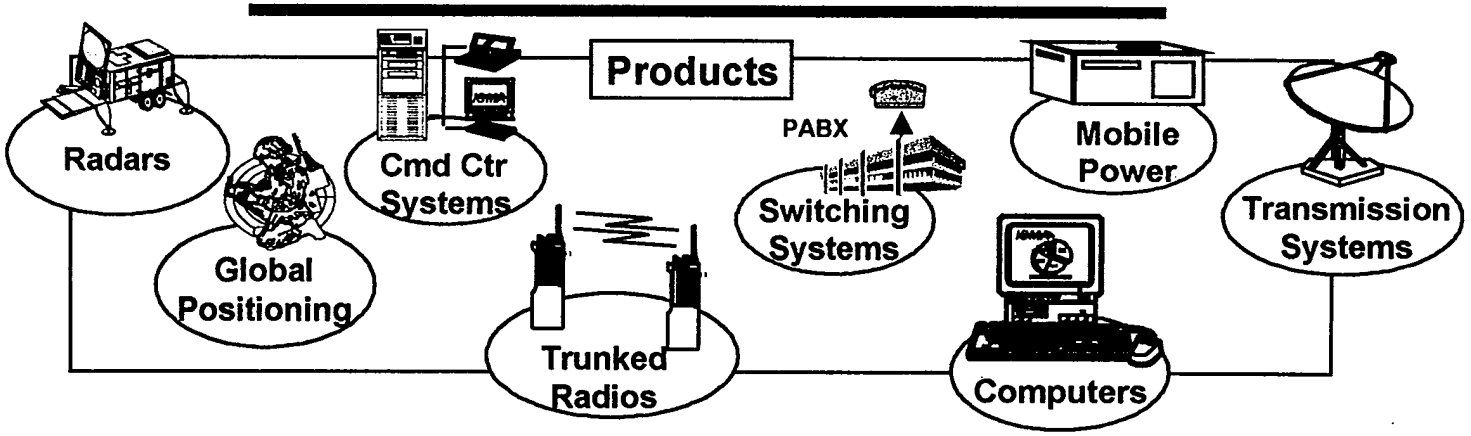
Customers

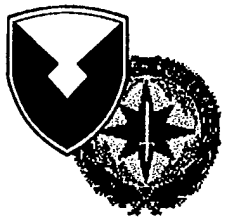
- CINCs
- Navy
- DISC4
- Air Force
- U.S. Allies
- Other Fed
- Army
- JCS
- DISA
- Marines
- OSD

Project Locations



Products





U.S. Army CECOM Systems Management Center



PRESENTERS

LTC Mary Fuller
PM Small Computer Program

Mr. Eric Swenson
Logistics Directorate

Mr. Jay Hicks
PM Defense Communications and Army Transmission Systems

Mr. Thomas C. Endler
PM Physical Security Equipment

MAJ Mike Biega
PM Global Positioning Systems

NOTES

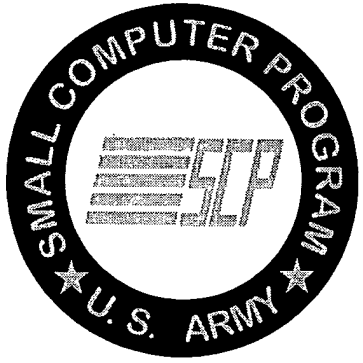


US ARMY CECOM
SYSTEMS MANAGEMENT CENTER

ADVANCE PLANNING BRIEFING FOR INDUSTRY

U.S. ARMY SMALL COMPUTER PROGRAM

LTC MARY FULLER



UNCLASSIFIED

AMSEL-IS-SCP 28 April 98

POINT PAPER

SUBJECT: Army Infrastructure Architecture Solutions-1 (IAS-1)

OBJECTIVE: IAS-1 is the acquisition of Commercial-Off-The Shelf (COTS) multi-user-server and network server computer equipment including software, networking components and technical support services to satisfy Army, Navy, Air Force, DoD agencies and Civilian federal agencies office automation networking requirements.

FACTS:

- Army Technical Architecture (ATA) certified products that will support worldwide Army/DoD/Civilian agencies' network server/software requirements. This acquisition will follow the Small Multiuser Computer-II (SMC-II) contract, which is scheduled to expire at the end of FY 98.

- All monitors and printers will be Energy Star compliant.

- All equipment provided will be Year 2000 compliant.

- Complies with all DoD technical directives/standards, including the Technical Architecture Framework for Information Management (TAFIM).

- Milestones listed below reflect the planned schedule for IAS-1. All schedules are planned to provide procurement coverage for Army, DoD and Civilian agency users worldwide.

**RFP Release	4th Qtr FY98
**Contract Award	1st Qtr FY99

- This will be a Best Value evaluation with a minimum of 2 awards. The procurement is planned to run for three years for ordering. Electronic Order Processing is projected. The procurement will be a FFP ID/IQ award.

BRIEFER: LTC Mary Fuller, Product Manager, Army Small Computer Program, AMSEL-IS-SCP, (732) 427-6791.

Product Manager:
LTC Mary Fuller
Small Computer Program
(732) 427-6791

AMSEL-IS-SCP 28 April 98

POINT PAPER

SUBJECT: Army Video TeleConferencing-1 (VTC-1)

OBJECTIVE: VTC-1 is the acquisition of Commercial-Off-The-Shelf (COTS) video teleconferencing products and services both CONUS and OCONUS to satisfy Army, Navy, Air Force, DoD agencies and Civilian federal agencies' rapidly-evolving remote-site meeting missions.

FACTS:

- Army Technical Architecture (ATA) certified products that will support worldwide Army/DoD/Civilian agencies' office video teleconferencing requirements. This acquisition will follow the Army's two current Video Teleconferencing contracts which are scheduled to expire in the 3rd Qtr FY98.

- All monitors, roll-abouts and multi-camera systems will be upgradable.

- All equipment provided will be Year 2000 compliant.

- Complies with all DoD technical directives/standards, including the Technical Architecture Framework for Information Management (TAFIM).

- Milestones listed below reflect the planned schedule for VTC-1. All schedules are planned to provide procurement coverage for Army, DoD and Civilian agency users worldwide.

**RFP Release	3rd Qtr FY98
**Contract Award	4th Qtr FY98

- This will be a Best Value evaluation with a minimum of 2 awards. The procurement is planned to run from 2 to 3 years for ordering. Electronic Order Processing is projected. The procurement will be via a BPA.

BRIEFER: LTC Mary Fuller, Product Manager, Army Small Computer Program, AMSEL-IS-SCP, (732) 427-6791.

Product Manager:
LTC Mary Fuller
Small Computer Program
(732) 427-6791

AMSEL-IS-SCP 28 April 98

POINT PAPER

SUBJECT: Army Portable Computer-3 (Port-3)

OBJECTIVE: Port-3 is the acquisition of Commercial-Off-The-Shelf (COTS) general purpose Notebook and Handheld computers and peripherals to satisfy Army, Navy, Air Force, DoD agencies and Civilian federal agencies' mobile computing missions.

FACTS:

- Army Technical Architecture (ATA) certified products that will support worldwide Army/DoD/Civilian agencies' portable computer requirements. This acquisition will follow the Army Portable Computer-2 (Port-2) contract which is scheduled to expire in the 2nd Qtr FY99.

- All monitors and printers will be Energy Star compliant.

- All equipment provided will be Year 2000 compliant.

- Complies with all DoD technical directives/standards, including the Technical Architecture Framework for Information Management (TAFIM).

- Milestones listed below reflect the planned schedule for Port-3. All schedules are planned to provide procurement coverage for Army, DoD and Civilian agency users worldwide.

**RFP Release	1st Qtr FY99
**Contract Award	3rd Qtr FY99

- This will be a Best Value evaluation with a minimum of 2 awards. The procurement is planned to run for 2 years for ordering. Electronic Order Processing is projected. The procurement will be a FFP ID/IQ award.

BRIEFER: LTC Mary Fuller, Product Manager, Army Small Computer Program, AMSEL-IS-SCP, (732) 427-6791.

Product Manager:
LTC Mary Fuller
Small Computer Program
(732) 427-6791

AMSEL-IS-SCP 28 April 98

POINT PAPER

SUBJECT: Army Personal Computer-3 (PC-3)

OBJECTIVE: PC-3 is the acquisition of Commercial-Off-The Shelf (COTS) general purpose, office automation technology to support the next generation of software under DOS and Multi-user operating systems to satisfy Army, Navy, Air Force, DoD agencies and Civilian federal agencies' personal computer requirements.

FACTS:

- Army Technical Architecture (ATA) certified products that will support worldwide Army/DoD/Civilian agencies' personal computer requirements. This acquisition will follow the Army Personal Computer-2 (PC-2) contract which is scheduled to expire in the 2nd Qtr FY99.

- All monitors and printers will be Energy Star compliant.

- All equipment provided will be Year 2000 compliant.

- Complies with all DoD technical directives/standards, including the Technical Architecture Framework for Information Management (TAFIM).

- Milestones listed below reflect the planned schedule for PC-3. All schedules are planned to provide procurement coverage for Army, DoD and Civilian agency users worldwide.

**RFP Release	3rd Qtr FY98
**Contract Award	1st Qtr FY99

- This will be a Best Value evaluation with a minimum of 2 awards. The procurement is planned to run for 2 years for ordering. Electronic Order Processing is projected. The procurement will be a FFP ID/IQ award.

BRIEFER: LTC Mary Fuller, Product Manager, Army Small Computer Program, AMSEL-IS-SCP, (732) 427-6791.

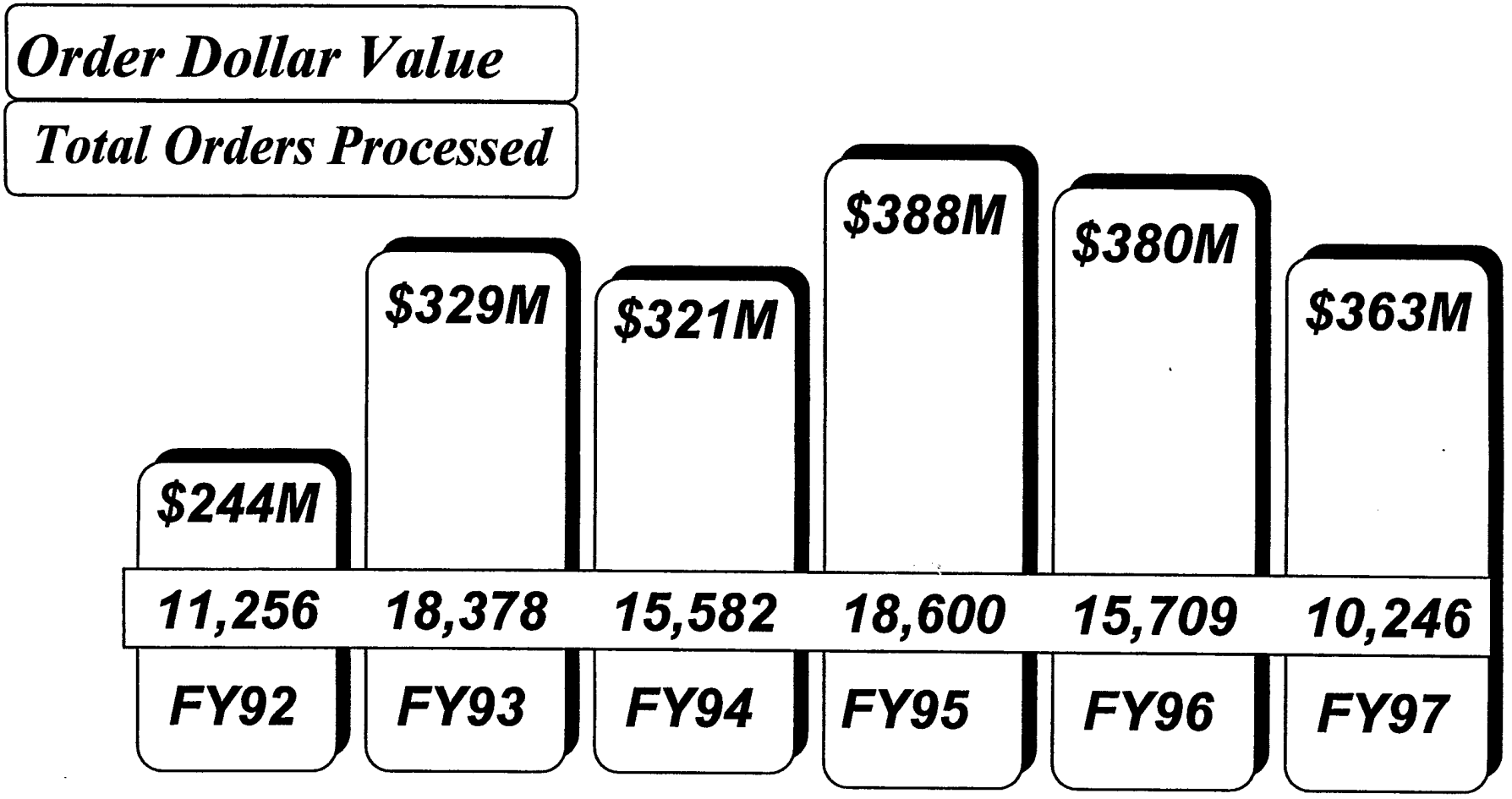
Product Manager:
LTC Mary Fuller
Small Computer Program
(732) 427-6791

PROGRAM OBJECTIVE

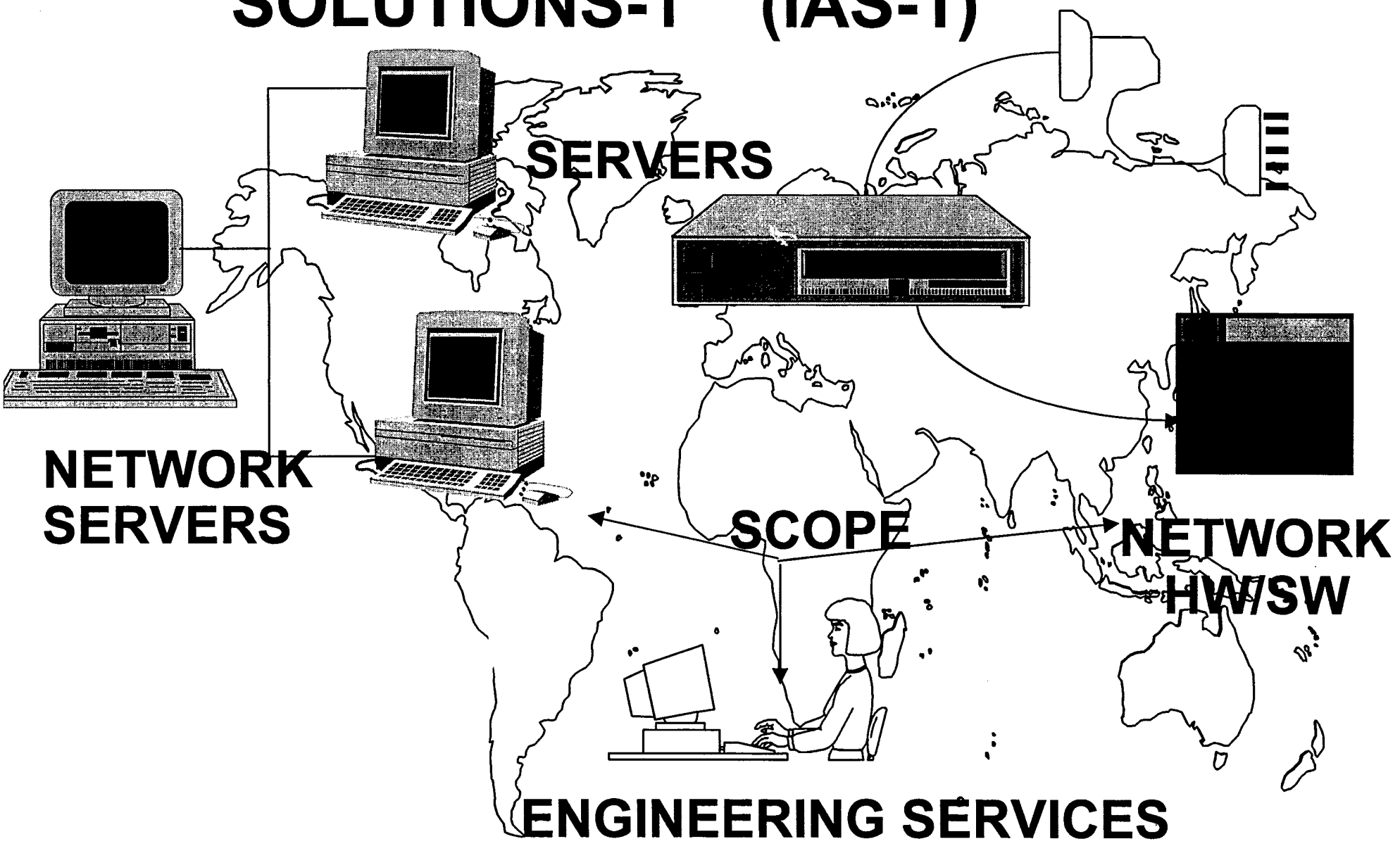


Provide a source of small and medium size Commercial Off-the-Shelf computers (Hardware, Software, Networking, Infrastructure support services) for the Army Power Projection Base, Strategic and Theater Tactical users.

CONTRACT ACTIVITIES



INFRASTRUCTURE ARCHITECTURE SOLUTIONS-1 (IAS-1)



IAS-1 DEFINITION

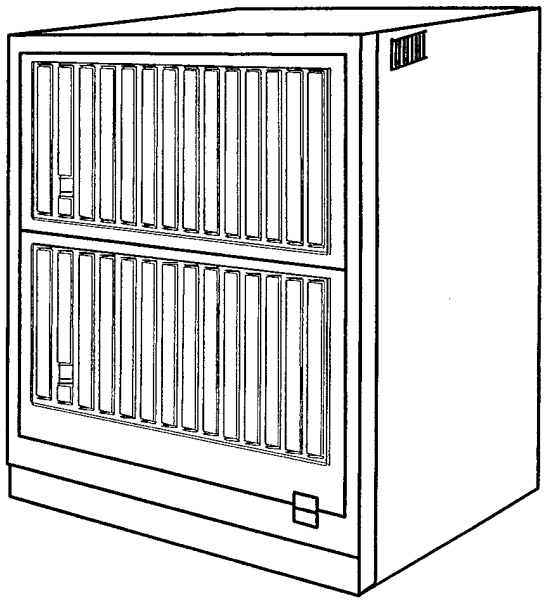
ACQUISITION OF COMMERCIAL-OFF-THE-SHELF (COTS) SERVER & NETWORK SERVER COMPUTER EQUIPMENT, SOFTWARE, NETWORKING COMPONENTS, & TECHNICAL SUPPORT SERVICES TO SUPPORT ARMY, NAVY, AIR FORCE, DOD, AND CIVILIAN AGENCIES' INTEGRATED DESKTOP MANAGEMENT REQUIREMENTS.

IAS-1 OBJECTIVES

- SUPPORT ARMY, NAVY, AIR FORCE, DOD AND CIVILIAN AGENCIES' NETWORK SERVER REQUIREMENTS
- COMMERCIAL-OFF-THE-SHELF (COTS)
- FFP ID/IQ (BEST VALUE AWARD)
- SINGLE AWARD
- 1 YEAR WITH 4 OPTION YEARS
- 5 YEAR WARRANTY
- ELECTRONIC ORDER PROCESSING PROJECTED

IAS-1 REQUIREMENTS

- STATE-OF-THE-ART PLATFORMS (COTS)
- OPEN SYSTEMS STANDARDS COMPLIANCE
- NETWORK SERVERS W/CLUSTER SW
- DESKTOP MANAGEMENT SOFTWARE
- NETWORKING COMPONENTS
- SECURITY - FIREWALLS
- CLIENT/SERVER APPLICATIONS
- Y2K MANDATORY
- TECHNICAL SUPPORT SERVICES



CONTRACT OPPORTUNITY

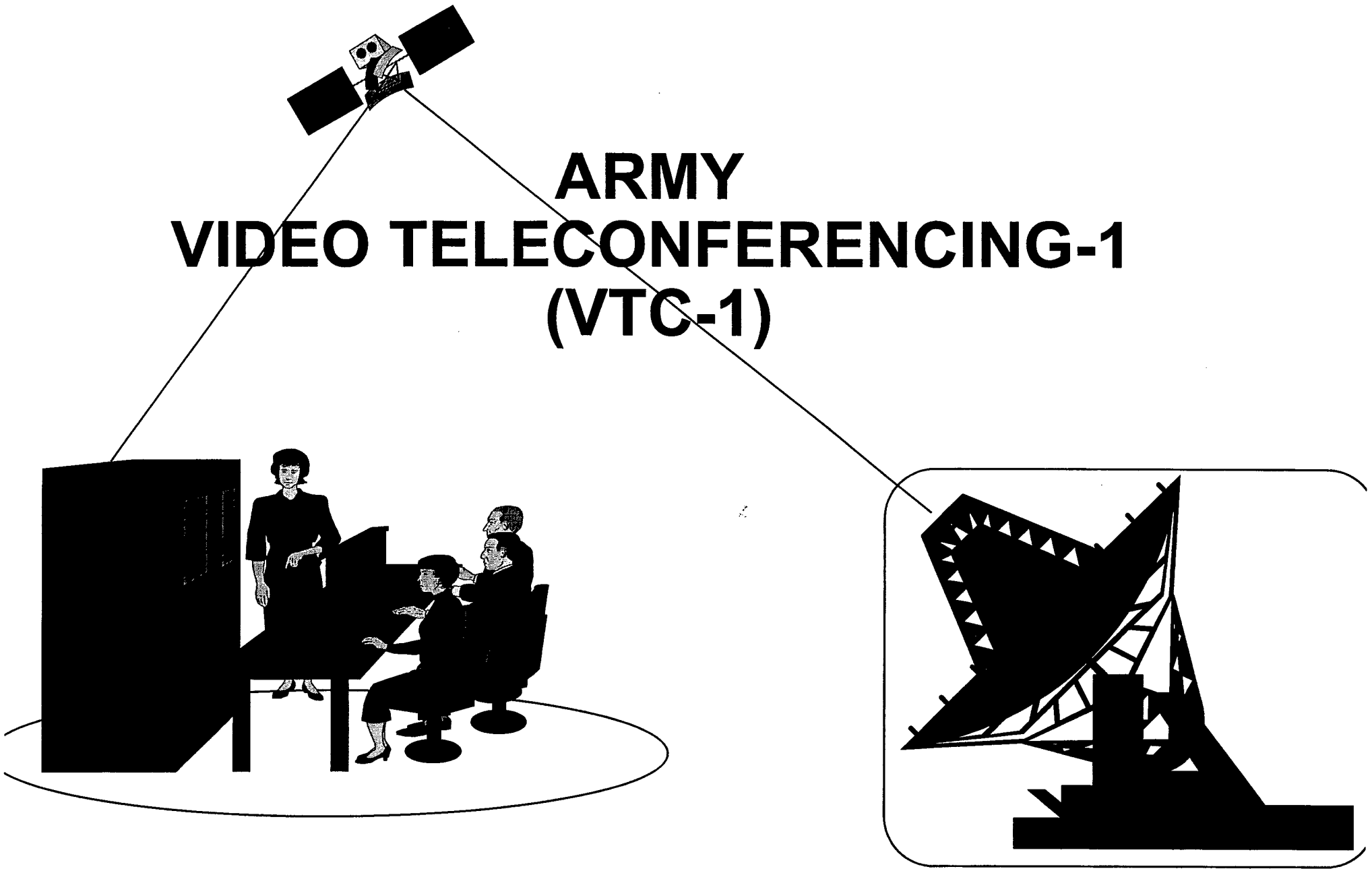
TITLE:	**INFRASTRUCTURE ARCHITECTURE SOLUTIONS-1 (IAS-1)**
OBJECTIVE:	**ARMY/JOINT SERVICE NETWORK SERVERS/SOLUTIONS FOR OFFICE AUTOMATION REQUIREMENTS**
PROPOSED CONTRACT TYPE:	**FFP ID/IQ (BEST VALUE AWARD)**
KEY MILESTONES:	**RFP RELEASE - 4TH QTR FY98, AWARD - 1ST QTR FY 99**

ESTIMATED VALUE: $200-$250M

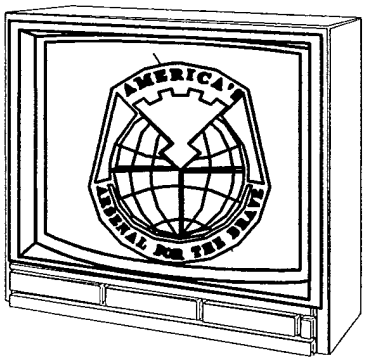
POC: PM SCP: ADELIA WARDLE, (732) 427-6793

CECOM ACQUISITION-WASH; MARY O'HARA (703) 325-3343

ARMY
VIDEO TELECONFERENCING-1
(VTC-1)



VTC-1
DEFINITION



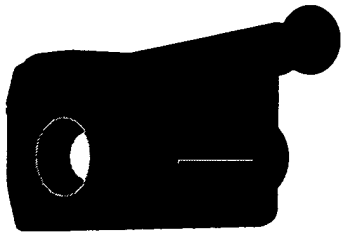
ACQUISITION OF PRODUCTS AND SERVICES TO SUPPORT THE ARMY'S RAPIDLY-EVOLVING VIDEO TELECONFERENCING REQUIREMENTS TO BE USED BY THE ARMY, DOD, AND CIVILIAN AGENCIES WITH BOTH CONUS AND OCONUS PERSPECTIVES.

VTC-1 OBJECTIVES

- PROVIDE VTC PRODUCTS AND SERVICES TO THE DOD AND CIVILIAN AGENCIES



- WORK MUST:
  COMPLY WITH THE TAFIM, THE JTA/ATA, AND THE DII COE
- WORLD-WIDE FOCUS - FOLLOW-ON TO ARMY DVTC CONTRACTS HELD BY DELTA AND TRW



- 2 OR MORE VENDORS
- 2-3 YEAR ORDERING WINDOW
- ELECTRONIC ORDER PROCESSING PROJECTED
- SOLUTIONS BASED
- Y2K MANDATORY

Y2K OK

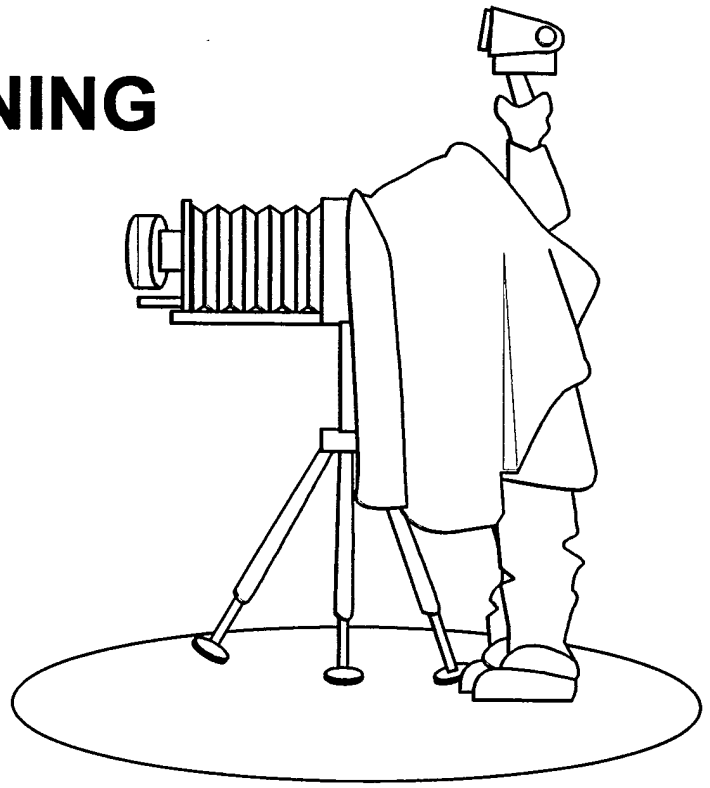
VTC-1
REQUIREMENTS

ENHANCEMENTS/UPGRADES TO EXISTING SYSTEMS

ROLL-ABOUT AND MULTI-CAMERA SYSTEMS

SUPPORT OF DISTANCE LEARNING

INTERFACES FOR:
- ATM
- POTS
- SATELLITE LINKS
- INTERNET/INTRANET
- ISDN



CONTRACT OPPORTUNITY

TITLE: VIDEO TELECONFERENCING-1 (VTC-1)

OBJECTIVE: VIDEO TELECONFERENCING FOR ARMY/DOD/CIVILIAN AGENCIES FOR INFO TECHNOLOGY PROGRAMS

PROPOSED CONTRACT BLANKET PURCHASE AGREEMENT
COTS HW/SW

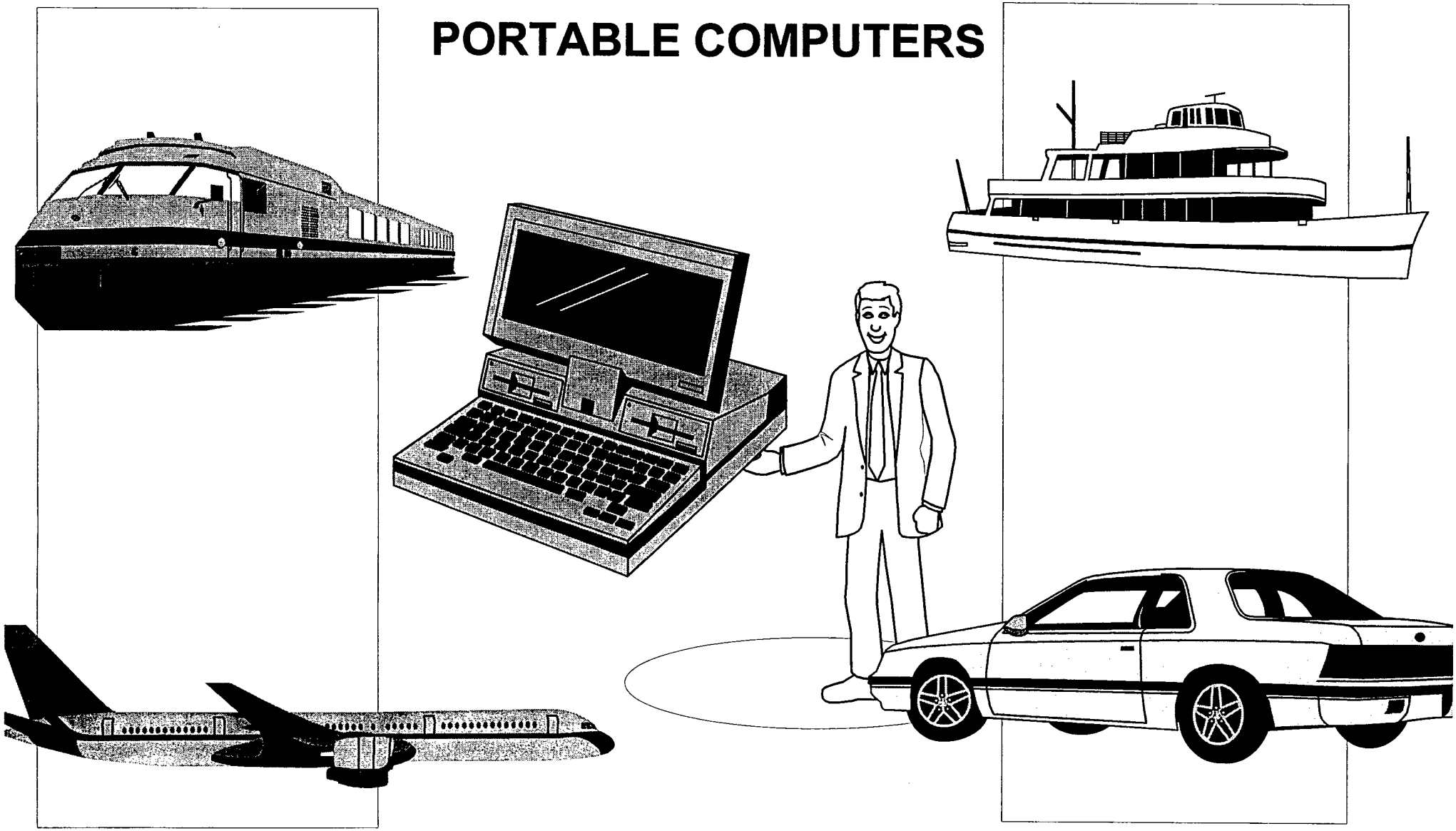
MILESTONES: RFQ RELEASE 3RD QTR FY 98
AWARD 4TH QTR FY 98

ESTIMATED VALUE: $25 - $75M

POC: PM-SCP MARK CORZINE, (732) 427-6792
CECOM ACQUISITION-WASH; LEE HARVEY (703) 325-3306

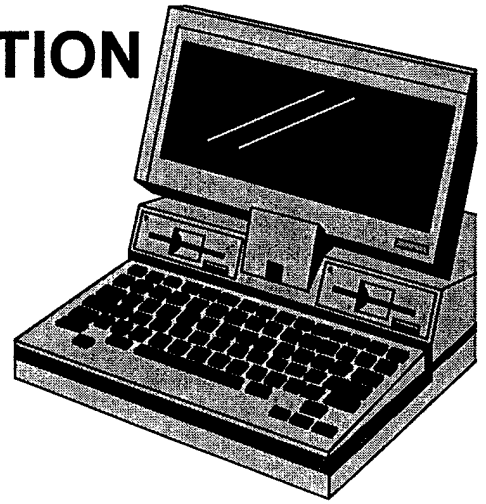
PORTABLE-3

PORTABLE COMPUTERS

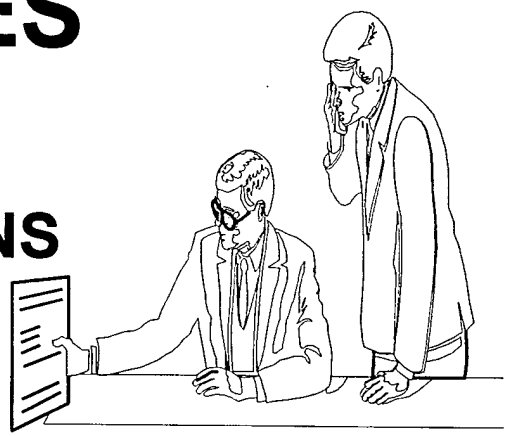


PORTABLE-3
DEFINITION

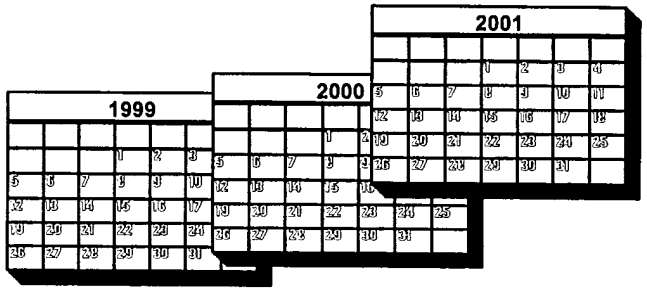
ACQUISITION OF COMMERCIAL-OFF-THE-SHELF(COTS) GENERAL PURPOSE NOTEBOOKS, SUB-NOTEBOOKS, MINI-NOTEBOOKS, AND HANDHELD COMPUTERS, SOFTWARE AND PERIPHERALS IN SUPPORT OF THE ARMY'S PORTABLE COMMUNICATION AND COMPUTING MISSIONS.



PORTABLE-3 OBJECTIVES



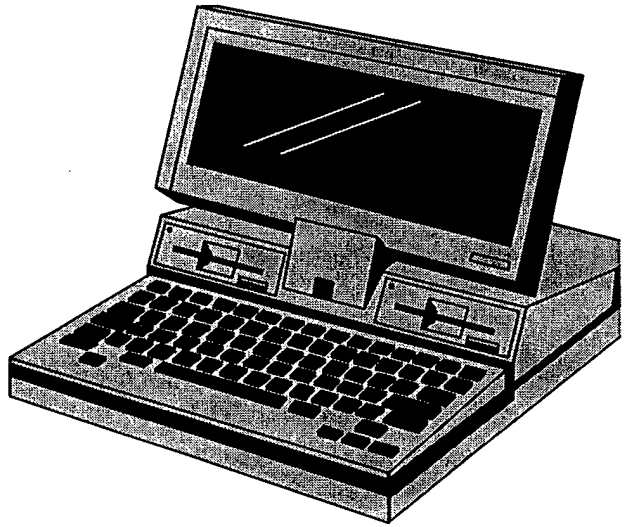
- SUPPORT THE ARMY'S PORTABLE MISSIONS
- ALL COMMERCIAL-OFF-THE-SHELF (COTS)
- FFP ID/IQ (BEST VALUE AWARDS)
- 2 OR MORE AWARDS
- Y2K MANDATORY
- 2 YEAR HW/SW ORDERING
- 36 MONTH MINIMUM WARRANTY
- ELECTRONIC ORDER PROCESSING PROJECTED



Y2K OK

PORTABLE-3 REQUIREMENTS

- **STATE-OF-THE-ART PLATFORMS**
  - COTS HARDWARE, SOFTWARE, DOCKING STATIONS, PORT REPLICATOR
- **SYSTEMS CONFIGURATIONS:**
  - NOTEBOOK WITH MULTI-MEDIA
  - SUB-NOTEBOOK
  - MINI-NOTEBOOKS



- **HANDHELD (PALMTOP) COMPUTER**
- **PC-CARD:**
  - MODEM WITH SOFTWARE, RANDOM ACCESS MEMORY (RAM) HARD DRIVE, FAX WITH SOFTWARE, NETWORK INTERFACE CARD

CONTRACT OPPORTUNITY

TITLE:	ARMY PORTABLE COMPUTER - 3 (PORT-3)
OBJECTIVE:	SUPPORT THE ARMY'S REQUIREMENT FOR PORTABLE COMMUNICATION AND COMPUTING CAPABILITIES
PROPOSED CONTRACT TYPE:	FFP ID/IQ (BEST VALUE AWARDS) COTS HW/SW
KEY MILESTONES:	RFP RELEASE 1ST QTR FY 99 AWARD 3RD QTR FY 99

ESTIMATED VALUE: $100M - $150M

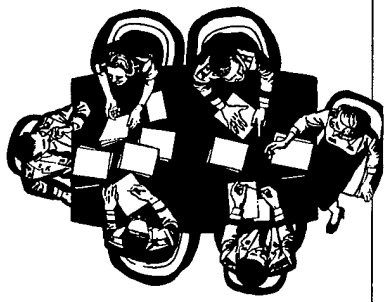
POC: ANTHONY BATTISTA, PM-SCP (732) 427-6788

CECOM ACQUISITION-WASH; LEE HARVEY (703) 325-3306

PERSONAL COMPUTER - 3

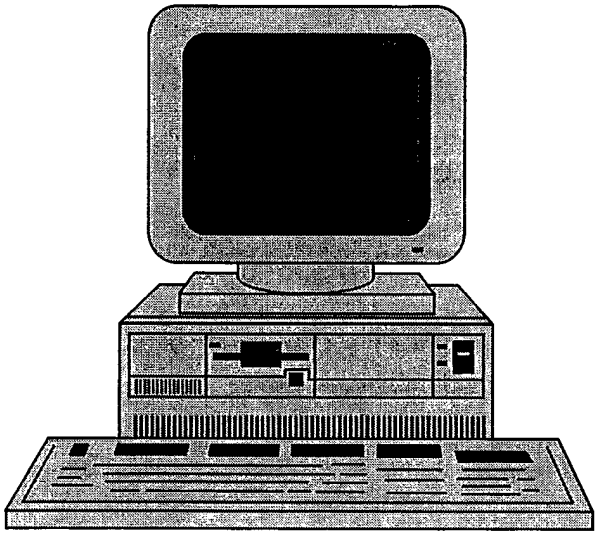
PC-3

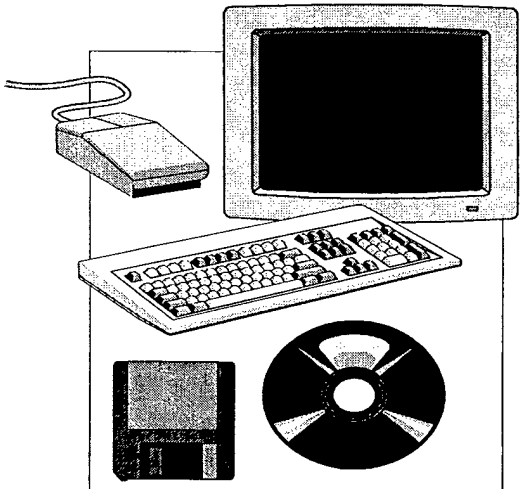




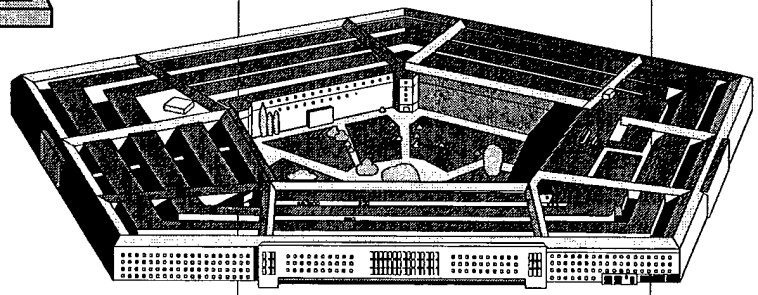


STRATEGIC MISSIONS





SOFTWARE
& PERIPHERALS



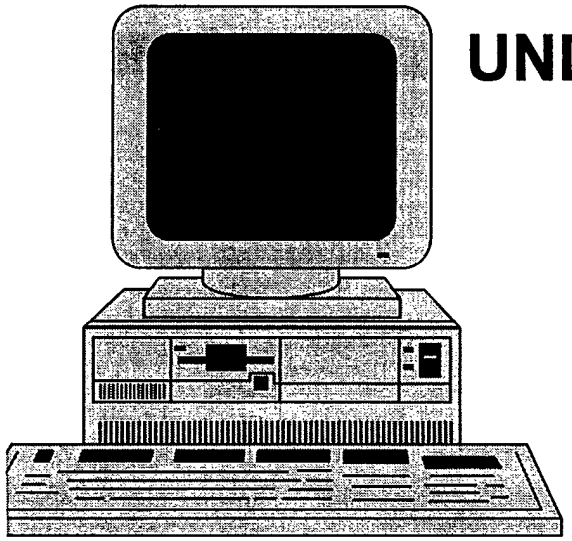
POWER PROJECTION

PC-3
DEFINITION

ACQUISITION OF COMMERCIAL-OFF-THE-SHELF (COTS)

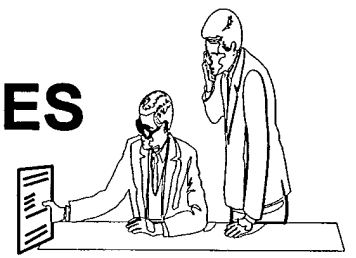
GENERAL PURPOSE, OFFICE AUTOMATION TECHNOLOGY

TO SUPPORT THE NEXT GENERATION OF SOFTWARE

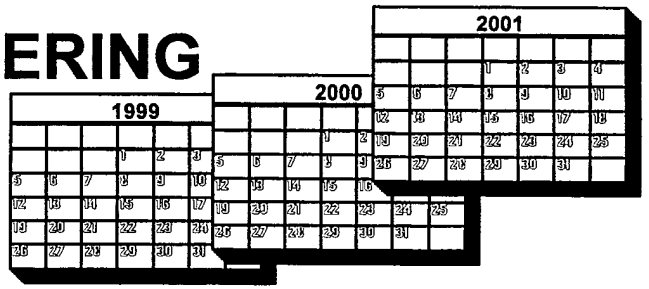


UNDER POSIX AND DOS OPERATING SYSTEMS.

PC-3
OBJECTIVES



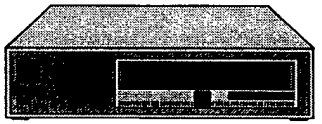
- COMPLY WITH ALL DOD TECHNOLOGY MANDATES
- 2 OR MORE AWARDS
- 2 YEAR HARDWARE/SOFTWARE ORDERING



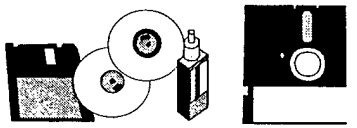
- 36 MONTH MINIMUM WARRANTY
- ELECTRONIC ORDER PROCESSING PROJECTED
- FIRM-FIXED-PRICE (FFP) INDEFINITE DELIVERY/ INDEFINITE QUANTITY (ID/IQ) (BEST VALUE AWARDS)
- Y2K MANDATORY

Y2K OK

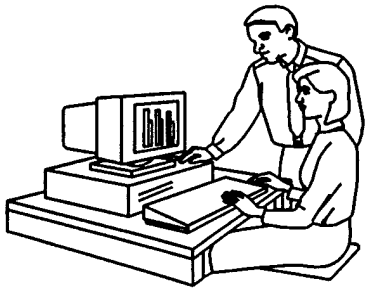
PC-3 REQUIREMENTS



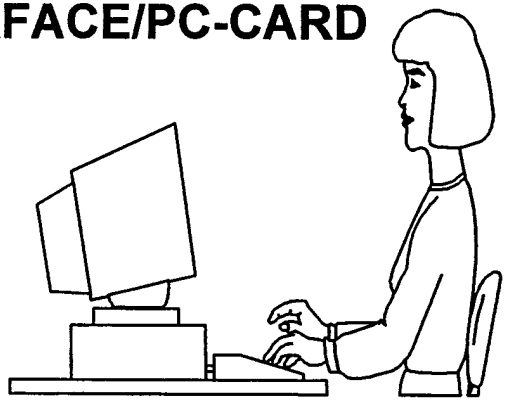
- **STATE-OF-THE-ART PLATFORMS-COTS**
  - HARDWARE, SOFTWARE, SINGLE & MULTI-USER OPERATING SYSTEMS



- **OPEN SYSTEMS STANDARDS COMPLIANCE**
  - TECHNICAL ARCHITECTURE FRAMEWORK FOR INFORMATION MANAGEMENT (TAFIM) INCLUDES POSIX, ETC.



- **SYSTEMS CONFIGURATIONS:**
  - BUNDLED PC AND/OR USER-CONFIGURED PC
- **PERIPHERALS:**
  - 17" AND 21" MONITORS, PRINTERS, (PCMCIA) INTERFACE/PC-CARD



- **DVTC (POTS/ISDN) OPERATIONAL**
- **OS WITH INTEGRATED BROWSERS**

CONTRACT OPPORTUNITY

TITLE: ARMY PERSONAL COMPUTER - 3

OBJECTIVE: SUPPORT NEXT GENERATION OF SOFTWARE UNDER POSIX/DOS OS

PROPOSED CONTRACT TYPE: FFP ID/IQ (BEST VALUE AWARDS) COTS HW/SW

KEY MILESTONES: RFP RELEASE 3RD QTR FY 98
AWARD 1ST QTR FY 99

ESTIMATED VALUE: $200-$300M

POC: PM SCP LINDA COOK,(732) 427-6596

CECOM ACQUISITION-WASH; LEE HARVEY (703) 325-3306

NOTES



LTLCS

Long Term Life Cycle Support

LTLCS Acquisition

Eric Swenson, Chief Systems Management Division

Unclassified

POINT PAPER

Subject: Long Term Life Cycle Support (LTLCS)

Objective: LTLCS is the acquisition of Commercial Off the Shelf (COTS) products and services to satisfy a customer's requirement to support their installation's switched system. LTLCS contracts support switched systems manufactured by NORTEL, Lucent and AG Communications Systems.

Facts:

- Two LTLCS efforts are involved. One for support of NORTEL switching systems and one for support of AG Communications Systems.
- Contracts will be Indefinite Delivery Indefinite Quantity. They will be awarded using FAR Part 12, Commercial Acquisition. Each contract will be one year with four one-year options.
- Customers provide funding for each requirement.
- Contracts will provide the following: software upgrades, hardware enhancements, technical assistance, parts repair, parts replenishment, training, technical assistance, remote diagnostics, labor services and extended warranty services.
- Milestones listed below reflect planned schedule for the LTLCS contracts.

	NORTEL	AG Comm Systems
Draft RFP Release	4th Qtr FY00	3rd Qtr FY01
RFP Release	1st Qtr FY01	4th Qtr FY01
Contract Award	4th Qtr FY01	3rd Qtr FY02

Briefer: Eric Swenson, Chief Systems Management Division, (732) 532-7976

Program Description

LTLCS

Long Term Life Cycle Support



The LTLCS program provides the means for a customer to obtain all the products and services required to support an installation's switched system through the use of Indefinite Delivery/Indefinite Quantity (ID/IQ) contracts.

Program Requirements

LTLCS

Long Term Life Cycle Support



LTLCS contracts support Nortel, Lucent Technologies and AG Communications Systems switched systems. LTLCS supports the following switches:

- Nortel SL-1
- Nortel SL-100
- Nortel DMS-100
- AGCS GTD-5
- Lucent Technologies Definity
- Lucent Technologies 5ESS

Program Requirements

LTLCS

Long Term Life Cycle Support



LTLCS contracts also support Telephone Management Systems and Directory Assistance Management Systems from the following vendors:

- ACE * COMM
- Telecommunications Management Associates
- Telemate
- K&R Custom Software
- Unique Communications

Contract Services

LTLCS

Long Term Life Cycle Support



- the latest software
- hardware enhancements
- technology upgrades
- remote diagnostics
- technical assistance
- training
- spare parts
- parts repair
- technical documentation
- and much more...

Status of Program

LTLCS

Long Term Life Cycle Support



The LTLCS program commenced in July 1992 with the first LTLCS contract DAAB07-92-D-E026. This contract was used to support Nortel Switched Systems.

LTLCS presently supports the following customers:

- AMC
- ARCENT
- ASC
- COE
- CINCPAC
- DISA
- FORSCOM
- MDW
- MEDCOM
- NGB
- TRADOC
- USN/USMC
- USARC
- US AIR FORCE

Status of Program

LTLCS

Long Term Life Cycle Support



The LTLCS program currently has three contacts:

- DAAB07-96-D-L260 Nortel Systems was awarded 31 July 1996 to GTE Government Systems Corp.
- DAAB07-97-D-L756 AG Communications Systems was awarded 23 May 1997 to GTE Government Systems Corp.
- DAAB07-98-D-L771 Lucent Technologies Systems was awarded on 26 November 1997 to Halifax Engineering Inc.

Contract Opportunities

LTLCS

Long Term Life Cycle Support

Title: LTLCS for Nortel Switched Systems

Objective: LTLCS contract for support of Nortel Switched Systems

Proposed Contract Type: ID/IQ, Best Value award, COTS acquisition, 1 year with 4 one year options

Estimated Value: $120M - $130M

Key Milestones: Proposed RFP Release Date: 1st Qtr FY01
Proposed Award Date: 4th Qtr FY01

POC: Eric Swenson Telephone # (732) 532-7976

Contract POC: Anthony Infanti Telephone # (732) 532-1124

Contract Opportunities

LTLCS

Long Term Life Cycle Support



Title: LTLCS for AGCS Switched Systems

Objective: LTLCS contract for support of AG Communications Systems (AGCS) Switched Systems

Proposed Contract Type: ID/IQ, Best Value source selection, COTS acquisition, 1 year with 4 one year options

Estimated Value: $27M - $37M

Key Milestones: Proposed RFP Release Date: 4th Qtr FY01
Proposed Award Date: 3rd Qtr FY02

POC: Eric Swenson Telephone # (732) 532-7976

Contract POC: Anthony Infanti Telephone # (732) 532-1124

NOTES

PM DCATS BUSINESS OPPORTUNITIES



MR. JARVIS HICKS

ASSISTANT PROJECT MANAGER

DEFENSE SATELLITE COMMUNICATIONS SYSTEM (DSCS) CONTROL

UNCLASSIFIED

AMSEL-DSA-TSD

POINT PAPER

SUBJECT: Global Terrestrial Critical Control Circuit - (GTC3)

OBJECTIVE: GTC3 will replace the current Smart Multi-Circuit Terminal System II (SMCTII). The Government has a need to replace the aging SMCTII with new or upgraded hardware/software, which will carry the DSCS Global Terrestrial Critical Control Circuit information. The improved global communications equipment will provide a number of additional improvements to include:

- Enhanced routing and message archiving
- Improved message error alert/correction
- Rapid/responsive network and local node reconfiguration
- Redefined user friendly audit trail access and retrieval
- Detailed message statistics
- Extend error message files and greater storage capacity
- Attended or remote operation capacity

FACTS:

- The GTC3 will be Joint Technical Architecture - Army (JTA) and Common Operating Environment (COE) compliant.

- A competitive Firm Fixed Price acquisition for commercial off the shelf (COTS) or modified COTS equipment is planned.

- Milestones listed below reflect the planned schedule for the GTC3 program.

RFP Release 4QFY98
Contract Award 2QFY99

BRIEFER: Mr. Jarvis B. Hicks, Assistant Project Manager, Defense Satellite Communications Satellite Control, AMSEL-DSA-TSD, (732) 532-9728 X 5824

AMSEL-DSA-TSD

POINT PAPER

SUBJECT: Replacement Defense Satellite Communications System (DSCS) Frequency Division Multiple Access (FDMA) Communications System (DFCS) - (RDFCS)

OBJECTIVE: RDFCS will replace the current DFCS to provide automated power control of FDMA communications links operating over current DSCS satellites as well as any follow-on DSCS satellites. RDFCS will also provide an orderwire link between the RDFCS Network Control Terminals (NCT's), located at DSCS Operations Centers (DSCSOC's) and the Network Terminals (NT's) installed at individual Earth Terminals. A commercial Off the Shelf (COTS) solution is preferred.

FACTS:

- The RDFCS will be Joint Technical Architecture - Army (JTA) and Common Operating Environment (COE) compliant.
- A competitive Firm Fixed Price acquisition is planned.
- Milestones listed below reflect the planned schedule for the RDFCS program.

RFP Release	1QFY00
Contract Award	2QFY00

BRIEFER: Mr. Jarvis B. Hicks, Assistant Project Manager, Defense Satellite Communications Satellite Control, AMSEL-DSA-TSD, (732) 532-9728 X 5824

AMSEL-DSA-TSD

POINT PAPER

SUBJECT: Common Network Planning Software - (CNPS)

OBJECTIVE: CNPS will replace the current Defense Satellite Communications System (DSCS) Network Planning Software (DNPS) to plan communications services supported by the DSCS. Although CNPS will initially plan services only on DSCS satellites the CNPS shall be a generic planner capable of planning services on other SHF space assets including commercial transponders operating on C, Ku and Ka bands as well as any follow-on DSCS satellites. It will operate at the DSCS Operations Centers (DSCSOCs) as well as Defense Information Systems Agency (DISA) and the United States Army Space Command Management sites. It is intended that CNPS will reduce operator workload and life cycle maintenance costs.

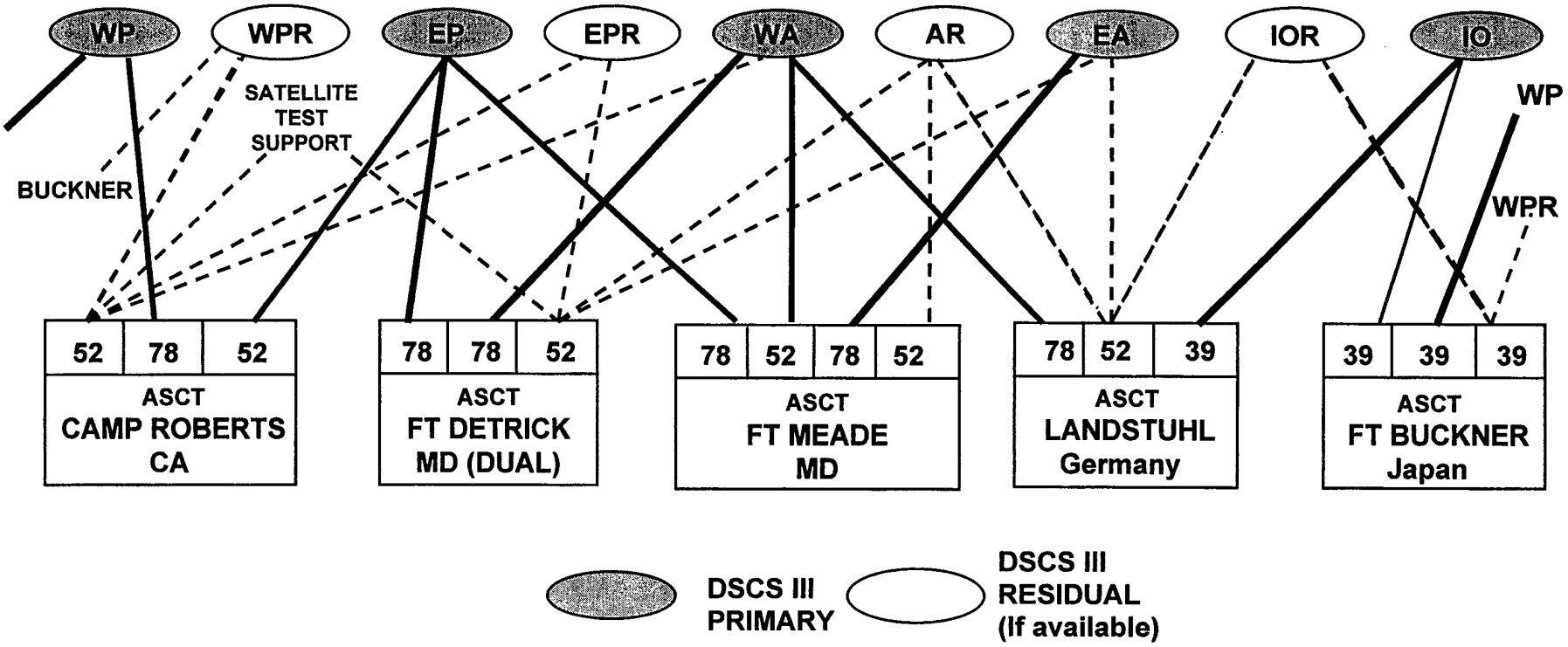
FACTS:

- The CNPS will be Joint Technical Architecture - Army (JTA) and Common Operating Environment (COE) compliant.
- A competitive Cost Plus Fixed Fee acquisition is planned.
- Milestones listed below reflect the planned schedule for the CNPS program.

RFP Release	4QFY98
Contract Award	2QFY99

BRIEFER: Mr. Jarvis B. Hicks, Assistant Project Manager, Defense Satellite Communications Satellite Control, AMSEL-DSA-TSD, (732) 532-9728 X 5824

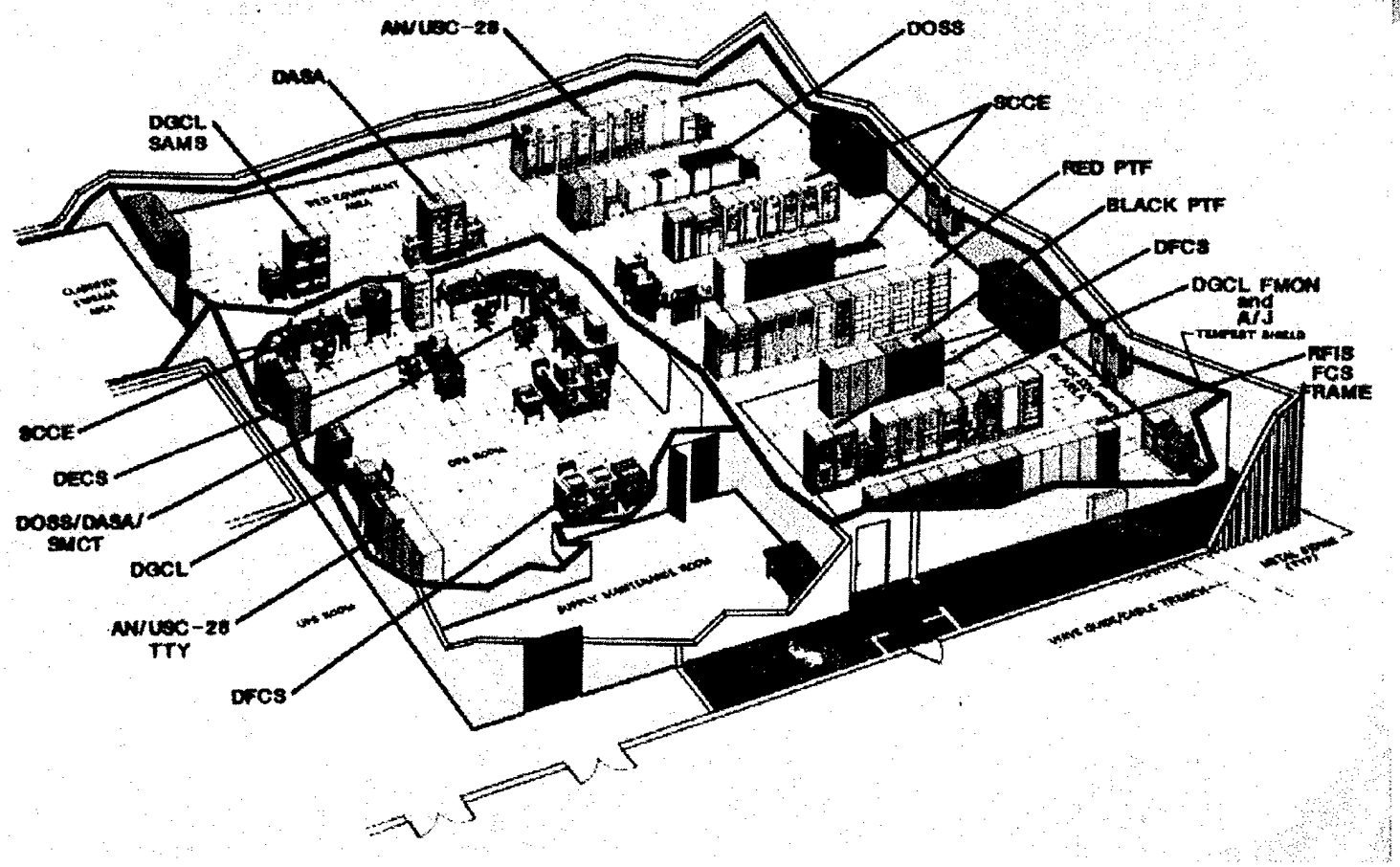
DSCS SATELLITE NETWORK



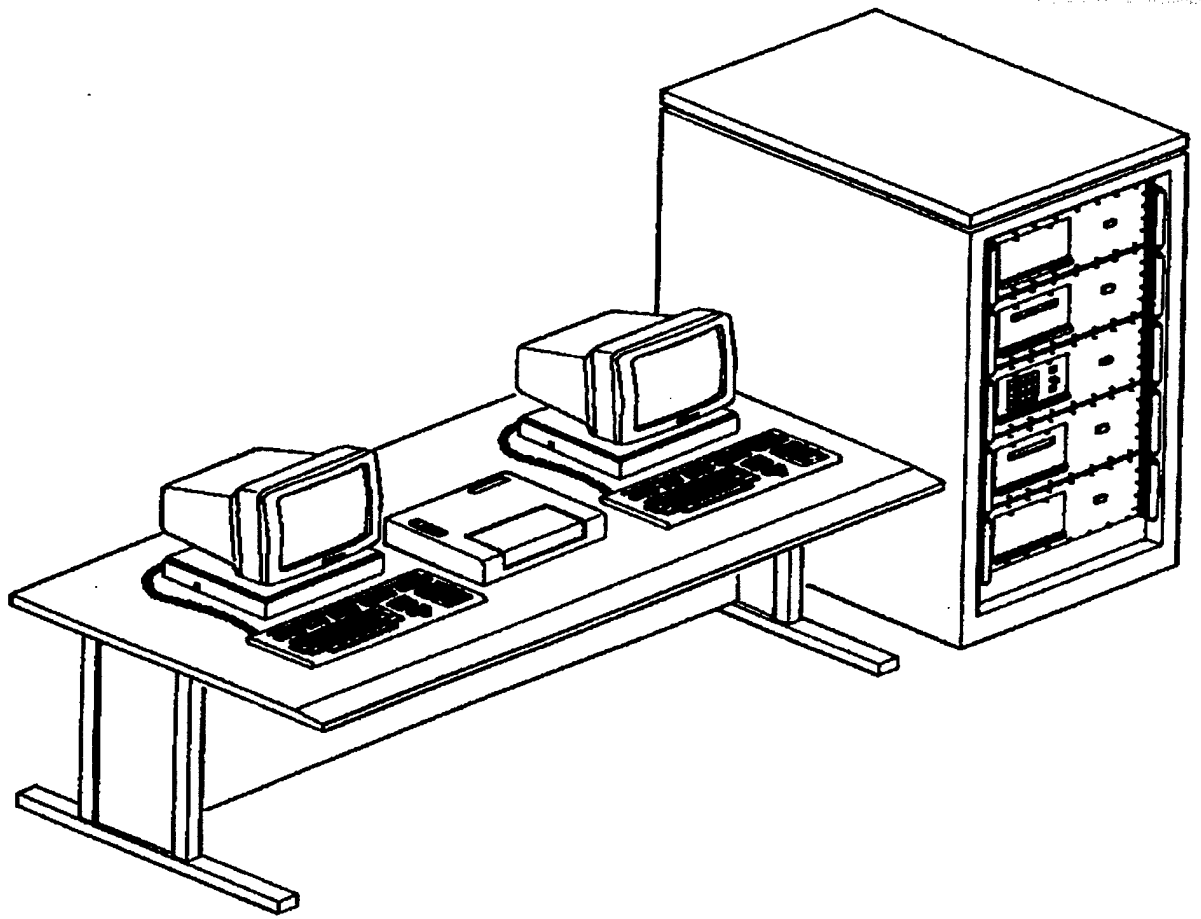
78=AN/FSC-78 52=AN/GSC-52 39=AN/GSC-39
ASCT=AUXILIARY SATELLITE CONTROL TERMINAL

PRIMARY SECONDARY ASCT

DSCS OPERATIONS CENTER (DSCSOC)



GLOBAL TERRESTRIAL CRITICAL CONTROL CIRCUIT (GTC3)



GLOBAL TERRESTRIAL CRITICAL CONTROL CIRCUIT
SYSTEM DEFINITION

- Replace Smart Multi-Circuit Terminal II System
- Provide Improved Global Communications Equipment to:
  - Enhance routing & message archiving
  - Improve message error alert/correction
  - Rapid network & local node reconfiguration
  - Detail message statistics
  - Extend error message files and greater storage capacity

GLOBAL TERRESTRIAL CRITICAL CONTROL CIRCUIT

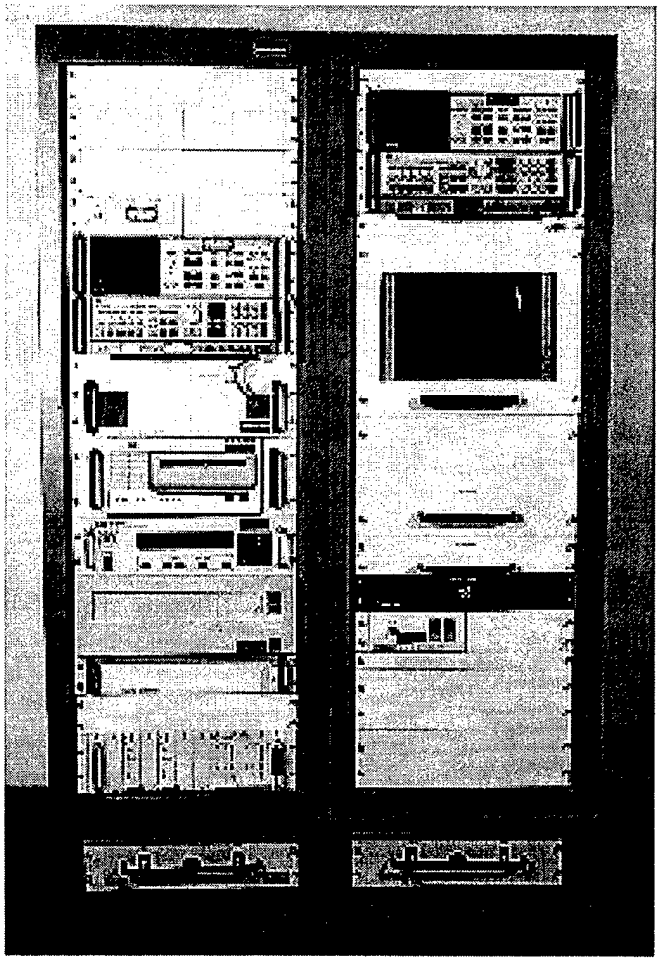
SYSTEM REQUIREMENTS

- Joint Technical Architecture- Army (JTA) and Common Operating Environment (COE) compliant
- Modular and Extensible System Architecture
- World Wide Deployment/Application

GLOBAL TERRESTRIAL CRITICAL CONTROL CIRCUIT
CONTRACT OPPORTUNITY

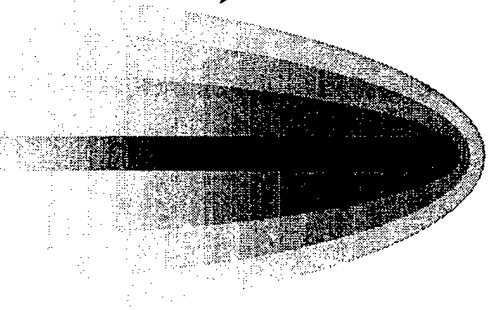
Objective:	Non-Developmental Item (NDI) Acquisition	
Proposed Contract Type:	Firm Fixed Price	
Key Milestones:	RFP Release:	Sep 98
	Award:	Feb 99
Estimated Value:	$2M to $3M	
Tech POC/Tel#:	Mr. Victor Phillipuk 732-532-9728 Ext 5821	
Contract POC/Tel#:	KO - Ms Kathleen Rizzo Specialist -June Stone 732-532-2924	

REPLACEMENT DSCS FREQUENCY DIVISION MULTIPLE ACCESS (FDMA) CONTROL SUBSYSTEM (RDFCS)



REPLACEMENT DSCS FDMA CONTROL SUBSYSTEM (RDFCS)

SYSTEM DEFINITION



- Replace Current DFCS
- Provide Automated Power Control of FDMA Comm Links over current DSCS and Follow-On DSCS Satellites
- Provide Covered Orderwire Link between RDFCS Network Control Terminal (NCT) at DSCSOCs and Network Terminal (NT) at Earth Terminals

REPLACEMENT DSCS FDMA CONTROL SUBSYSTEM (RDFCS) SYSTEM REQUIREMENTS

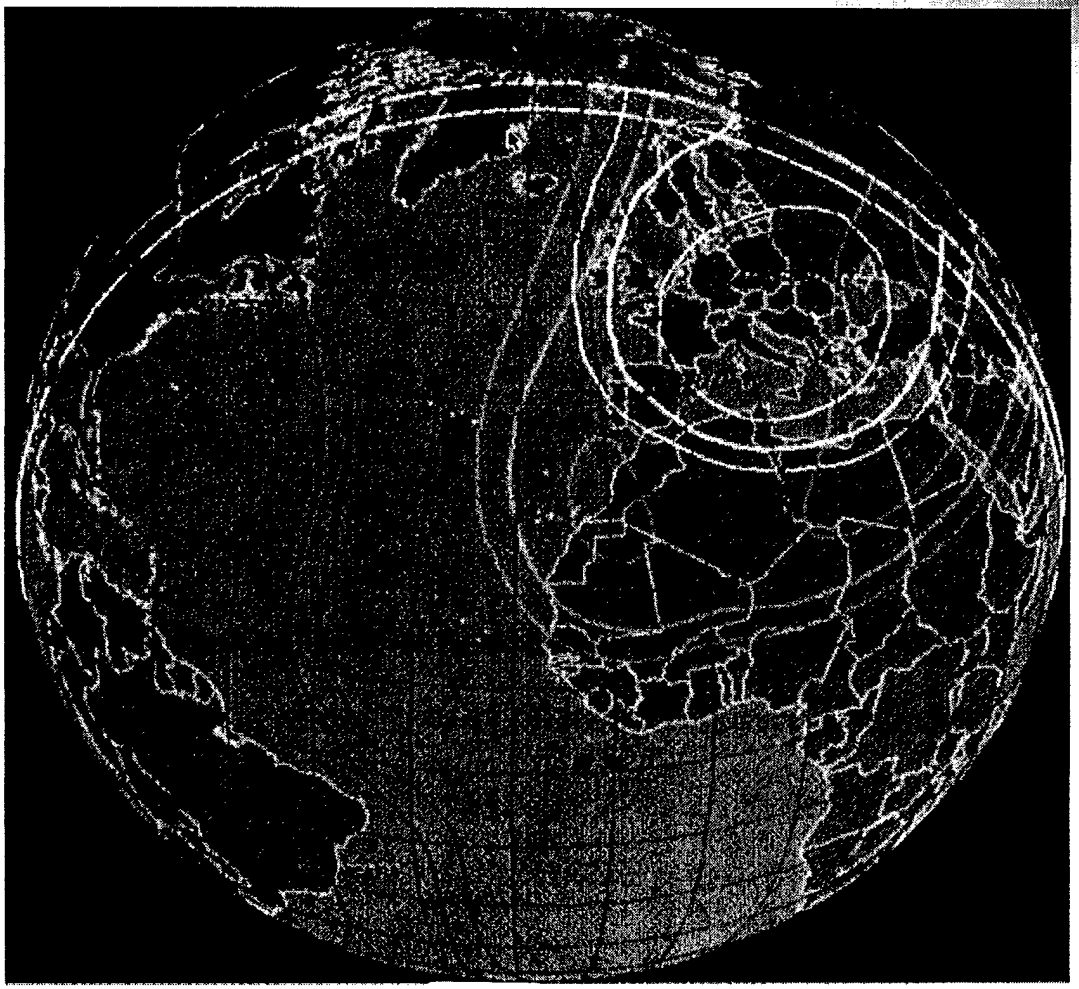
- Joint Technical Architecture- Army (JTA) and Common Operating Environment (COE) compliant
- Compliant with Draft Fixed Satellite Service (FSS) Standard

REPLACEMENT DSCS FDMA CONTROL SUBSYSTEM

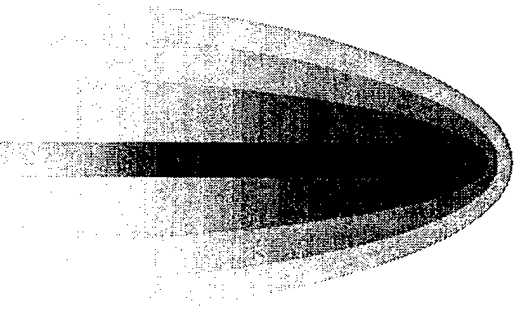
CONTRACT OPPORTUNITY

Objective:	Non-Developmental Item (NDI) Acquisition	
Proposed Contract Type:	Firm Fixed Price	
Key Milestones:	RFP Release:	Nov 99
	Award:	Feb 00
Estimated Value:	$10M to $15M	
Tech POC/Tel#:	Mr. Victor Phillipuk 732-532-9728 Ext 5821	
Contract POC/Tel#:	Ms. Kathleen Rizzo 732-532-2924	

COMMON NETWORK PLANNING SOFTWARE (CNPS)



COMMON NETWORK PLANNING SOFTWARE
SYSTEM DEFINITION



- Replace Defense Satellite Communications System Network Planning Software
- Plan Defense Satellite Communications System & Commercial SHF links
- Improved planning performance
- Reduce operator workload
- Reduce life cycle maintenance costs

COMMON NETWORK PLANNING SOFTWARE

SYSTEM REQUIREMENTS



- Generic planner
- Retain Critical Defense Satellite Communications System Network Planning Software Algorithms
- Easily accommodate enhancements
- Joint Technical Architecture- Army (JTA) and Common Operating Environment (COE) compliant

COMMON NETWORK PLANNING SOFTWARE
CONTRACT OPPORTUNITY

Objective:	Acquire new Satellite Comm Network Planning Tool	
Proposed Contract Type:	Cost Plus Fixed Fee	
Key Milestones:	RFP Release:	Sep 98
	Award:	Jan 99
	Begin Fielding:	Jun 02
Estimated Value:	$12M to $18M	
Tech POC/Tel#:	Mr. David Morrissey 732-532-9728 Ext 5808	
Contract POC/Tel#:	KO - Ms. Kathleen Rizzo Specialist - Maria Festa 732-532-2924	

NOTES



PM, Physical Security Equipment Business Opportunities

PM-PSE
Product Manager, Physical Security Equipment

Thomas C. Endler

Production, Fielding and Sustainability Manager

Office of the Product Manager, Physical Security Equipment

UNCLASSIFIED

AMSEL-DSA-PSE 30 April 1998

POINT PAPER

SUBJECT: Mobile Detection Assessment Response System-Interior (MDARS-I)

OBJECTIVE: The MDARS-I will provide commanders an electromechanical means to conduct random navigate in warehouses, office buildings, hospitals and other enclosed structures, while performing intruder detection and inventory assessment.

FACTS:

- Currently in 6.4 Engineering and Manufacturing Development (EMD) phase.
- A Cost Plus Incentive Fee (EMD) Firm Fixed Price (Production option of non-developmental items) Fixed Price Incentive (Production option of developmental items) contract is envisioned.
- MDARS-I will undergo combined Developmental Testing/Operational Testing (DT/OT).
- Pre-planned Product Improvements (P3I) will include Detection on the Move, Additional non-lethal response capabilities, integration of interior and exterior platforms, and integration with fixed IDS.
- MDARS-I will employ Contractor Life Cycle Support for the life of the system.
- The key MDARS-E milestones are:

RFP Release	3QFY98
Contract Award	1QFY99

BRIEFER: Mr. Tom Endler, Production, Fielding and Sustainability Manager, Office of the Product Manager, Physical Security Equipment, Ft. Belvoir, VA

AMSEL-DSA-PSE 30 April 1998

POINT PAPER

SUBJECT: Mobile Detection Assessment Response System-Exterior (MDARS-E)

OBJECTIVE: The MDARS-E will provide commanders a diesel powered means to semiautonomously conduct random patrols, while performing intrusion detection in general storage yards, arsenals, petroleum storage areas, airfields, rail yards and port facilities.

FACTS:

- Ongoing Broad Agency Announcement contract with Robotic Systems Technology to investigate navigation, communication and intruder detection aspects associated with a exterior robotic vehicle.
- A Cost Plus Incentive Fee (EMD) contract is envisioned.
- MDARS-E will undergo combined Developmental Testing/Operational Testing (DT/OT).
- Pre-planned Product Improvements (P3I) will include employing delay devices, and integration of fixed exterior sensors into a single system.
- MDARS-E will employ Contractor Life Cycle Support for the life of the system.
- The key MDARS-E milestones are:

  MS I/II IPR 3QFY99

BRIEFER: Mr. Tom Endler, Production, Fielding and Sustainability Manager, Office of the Product Manager, Physical Security Equipment, Ft. Belvoir, VA

AMSEL-DSA-PSE 30 April 1998

POINT PAPER

SUBJECT: High-Value Asset Security Container (HVASC)

OBJECTIVE: Provide Commanders a container to secure High Value Items in both garrison and field environments.

FACTS:

- The HVASC was developed to provide a highly versatile, bulk-storage container to secure high-value, sensitive, and pilferable assets. HVASC was developed to be force resistant and defeat unsophisticated criminals using limited hand tools.

- HVASC is designed to provide commanders a container to secure high-value items in both garrison and field environments. Early user appraisals has been conducted with Army, Navy, and Marine Corps units. A worldwide safety release and a finalized technical drawing package have been completed.

- The Key HVASC milestones are:

Draft RFP	3QFY98
Draft RFP	4QFY98
Award	4QFY98
FUE	1QFY99

- Units will purchase HVASC on a "requirement basis of issue".

BRIEFER: Mr. Tom Endler, Production, Fielding and Sustainability Manager, representing the Product Manager, Physical Security Equipment, Fort Belvoir, VA.

AMSEL-DSA-PSE 30 April 1998

POINT PAPER

SUBJECT: High-Value Item Security System (HVISS)

OBJECTIVE: Provide Commanders a system to locate and recover High Value Items in both garrison and field environments

FACTS:

- The HVISS is being developed to protect high-value, pilferable items identified under controlled item inventory codes (CIIC) which are randomly lost, stolen, or misplaced. CIICs items consist of such items as night vision devices, global positioning systems, small arms and small arms repair parts, communication equipment and other items. These items total over 1,5 million pieces of equipment.

- HVISS envisions uses a radio frequency identification (RFID) tag system that can be integrated into the manufacture of items to aid in accounting and recovery of items in garrison and in field with the use of an interrogator unit. The HVISS will consis of a accountability system, miniaturized tag, and interrogator.

- Maximum use will be made of non-developmental items or commercial-off-the-shelf systems. Each asset tag will have an unique identification number. Interrogators will provide electronic accountability and locate and recover functions. It is desired systems will be linked to existing security, administrative, and logistics databases.

- The key HVISS milestones are:

Complete BTA	3QFY99
Complete COEA	2QFY00
Award EMD Contract	1QFY01

BRIEFER: Mr. Tom Endler, Production, Fielding and Sustainability Manager, representing the Product Manager, Physical Security Equipment, Fort Belvoir, VA

AMSEL-DSA-PSE 30 April 1998

POINT PAPER

SUBJECT: Platoon Early Warning Device - II (PEWD-II)

OBJECTIVES: The PEWD-II is a replacement to the current Platoon Early Warning System (PEWS) and will be a simple, compact, light-weight sensor system capable of detecting intrusions into protected areas and rapidly communicating detection alarm messages.

FACTS:

- The PEWD-II Acquisition Strategy is to obtain 4926 units through competitive acquisition using commercially-available technology. Projected four-year production costs are $40M.
- A Fixed Price type of contract is envisioned, with contract award projected for 4QFY99, and a production run to begin 1QFY01.
- The PEWD-II will consist of a hand-held monitor, a minimum of seven sensors with transmitters and a carrying case. The entire unit will not exceed 15.5 pounds.
- The key PEWD-II milestones are:

Draft RFP	2QFY99
Issue RFP	4QFY99
Contract Award	4QFY99

BRIEFER: Mr. Tom Endler, Production, Fielding and Sustainability Manager, Office of the Product Manager, Physical Security Equipment, Ft. Belvoir, VA.

AMSEL-DSA-PSE 30 April 1998

POINT PAPER

SUBJECT: Electronic Trip Flare (ETF)

OBJECTIVE: The ETF is a lightweight, manportable, easily emplaced and recoverable motion activated sensor system designed to provide early warning and illumination to individuals and small units.

FACTS:

- The ETF Acquisition Strategy is to obtain 10,827 units through competitive acquisition using technology which is substantially, currently available. Production costs are projected at $3.8M.

- A Cost Plus Incentive Fee type contract is envisioned, with contract award projected for 3QFY02 and a production run to begin 1QFY03.

- ETF will consist of six sub-systems:

  carrying/mounting case
  module (motion sensor, lights, speaker and control unit)
  battery module
  power supply/charger module
  remote control command transceiver
  accessory carrying case

  A complete ETF system will consist of one motion sensor, lights, speaker, control module with IR capability, two battery modules, one power supply, one remote control command transceiver, a carrying cases and an accessory case.

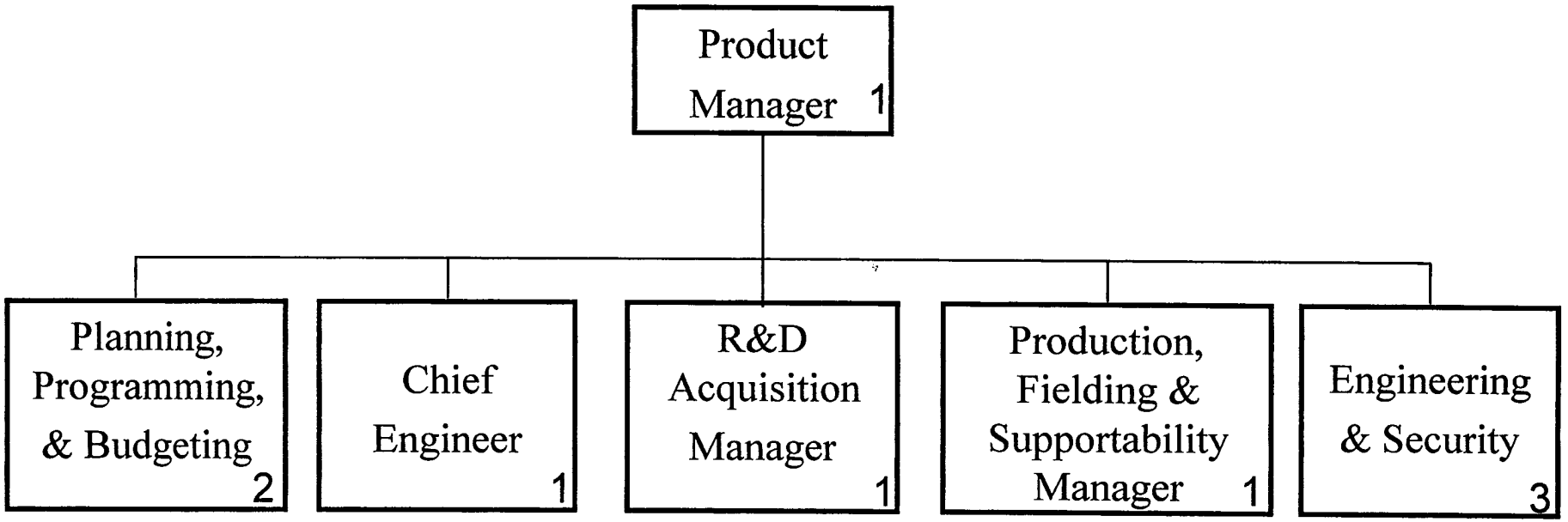
- The key ETF milestones are:

Draft RFP	3QFY00
Issue RFP	1QFY01
Contract Award	3QFY02

BRIEFER: Mr. Tom Endler, Production, Fielding and Sustainability Manager, Office of the Product Manager, Physical Security Equipment, Ft. Belvoir, VA.

Organizational Structure

PM-PSE
Product Manager, Physical Security Equipment





PM-PSE Mission

PM-PSE
Product Manager, Physical Security Equipment

Provide cost-effective, state-of-the-art and logistically supportable physical security system to installations and forces deployed worldwide



PM-PSE

Product Manager, Physical Security Equipment

Mobile Detection Assessment Response System - Interior (MDARS-I)

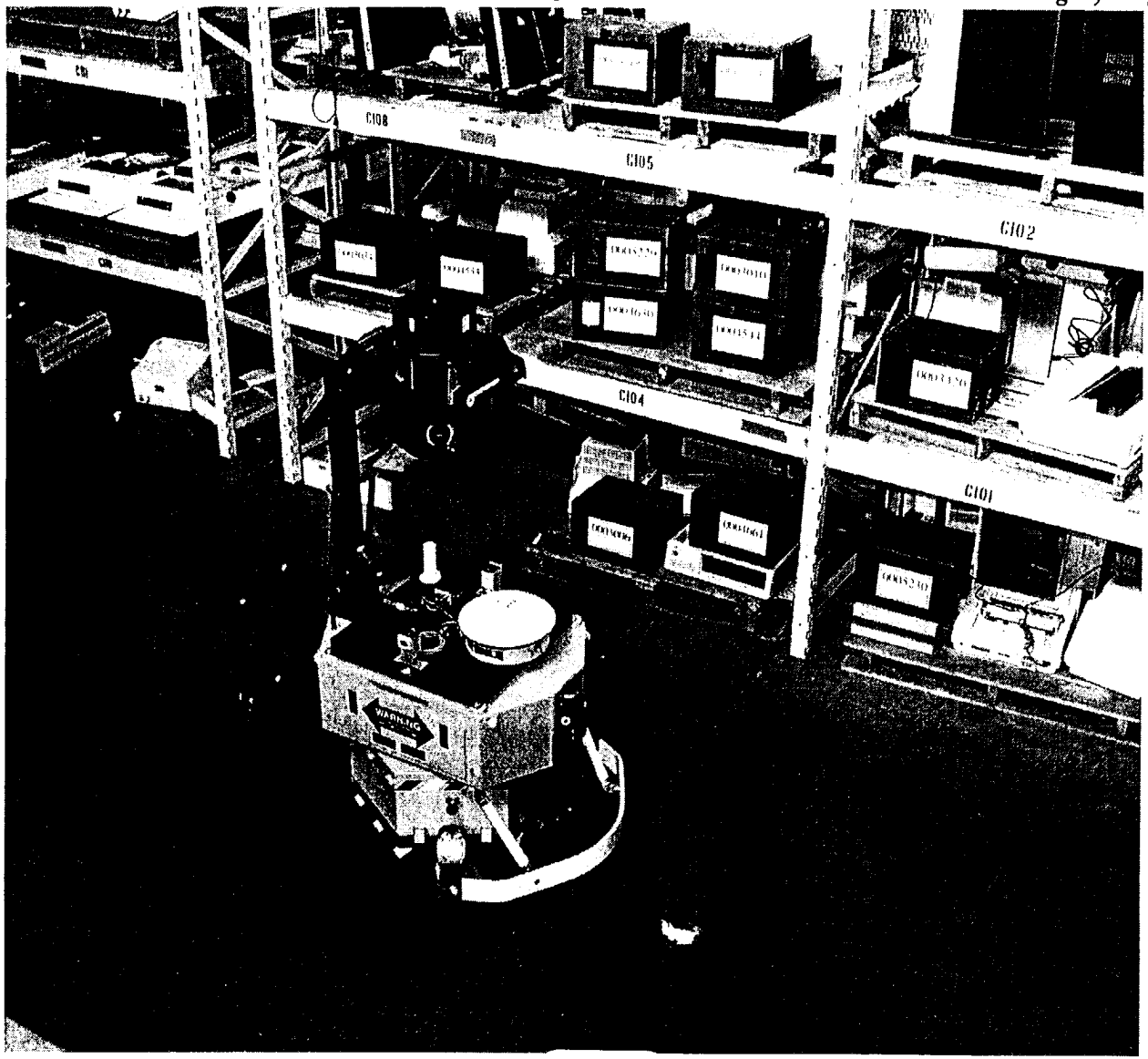
US ARMY CECOM

SYSTEMS MANAGEMENT CENTER

MDARS-I System

PM-PSE

Product Manager, Physical Security Equipment



MDARS-I Program/System Definition

PM-PSE
Product Manager, Physical Security Equipment

- Operates in warehouses, office buildings, hospitals and other enclosed structures
- Randomly navigates interior building interiors, while performing intrusion detection and inventory assessment
- Pre-Planned Product Improvements (P3I) will include Detection on the Move, Additional non-lethal response capabilities, Integration of Interior and Exterior platforms, and Integration with fixed IDS

MDARS-I Program/System Status

PM-PSE
Product Manager, Physical Security Equipment

- Successfully completed Technical Feasibility Test-II
- Completed Preparatory and Installation Phase of MDARS-I EUA
- Completed MDARS-I platform development and prototyping
- Developed EUA Evaluation Plan for the Product Assessment Subsystem
- Developed draft specification and draft RFP components for EMD/production contract

MDARS-I Program/System Requirements

PM-PSE
Product Manager, Physical Security Equipment

- Verify the status of barriers and products within a six meter line of sight range
- Provide cost-effective intruder detection and assessment by mobile platforms while in motion
- That the platforms will respond to a sensor in alarm and perform assessment without operator intervention
- Be designed to operate in an environment which contains both active sensors and other Phase II platforms
- Provide an annunciator which integrates existing IDS with platforms

MDARS-I Contract Opportunity

PM-PSE
Product Manager, Physical Security Equipment

Title: MDARS-I

Objective: Award an Engineering and Manufacturing Development (EMD) Contract

Proposed Contract Type: Cost Plus Incentive Fee (EMD) Firm Fixed Price (Production option of non-developmental items) Fixed Price Incentive - (Production option of developmental items)

Key Milestones: RFP release, 4QFY98, contract award, 1QFY99

Estimated Value: $24M

POC: LTC Bruce M. Swagler
Product Manager, Physical Security Equipment
(703) 704-2416; DSN: 654-2416

CPOC: Mr. Richard Sturgis; (703) 325-6068; DSN 992-6068



PM-PSE

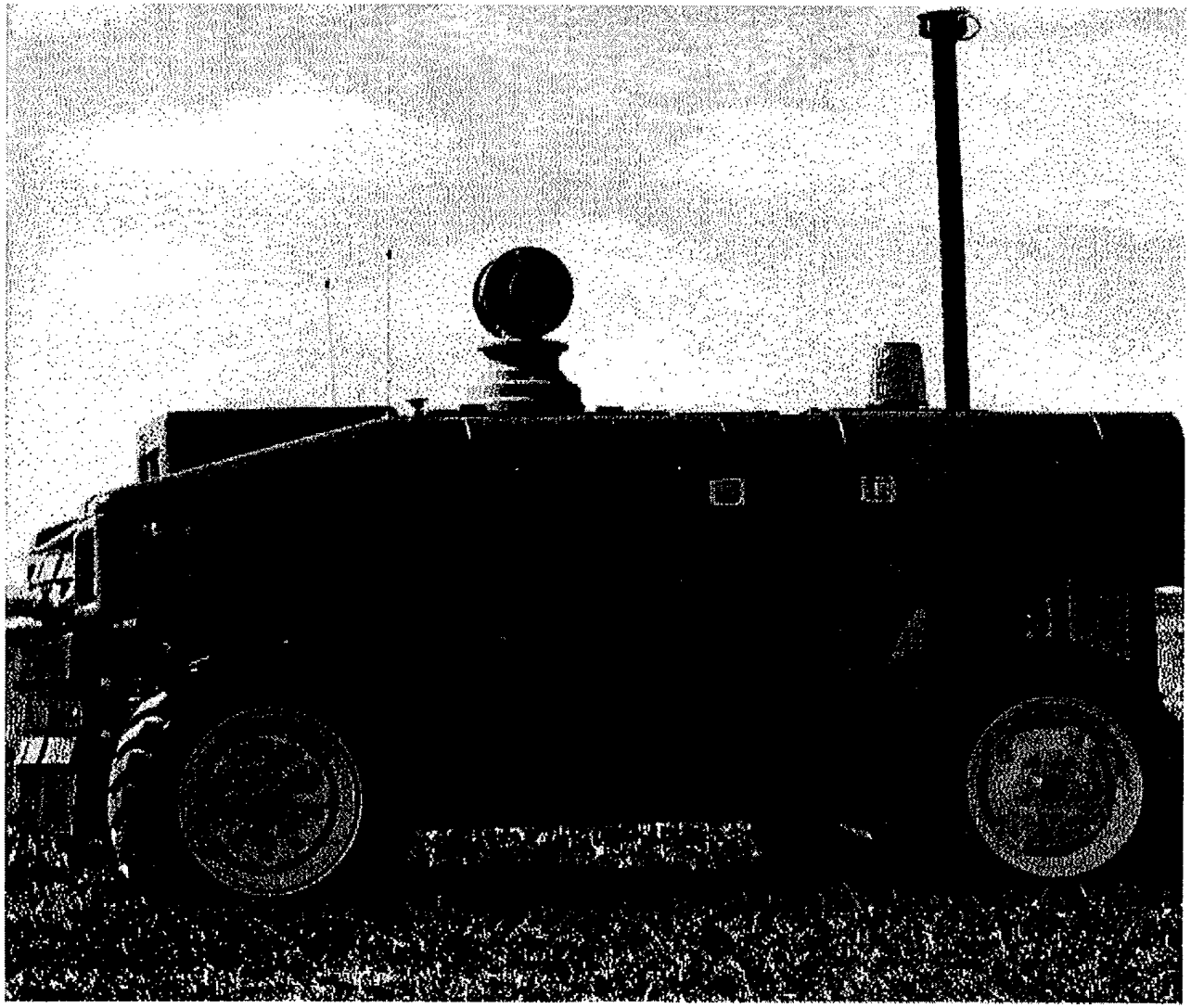
Product Manager, Physical Security Equipment

Mobile Detection Assessment Response System - Exterior (MDARS-E)

MDARS-E System

PM-PSE

Product Manager, Physical Security Equipment



MDARS-E Program/System Definition

PM-PSE
Product Manager, Physical Security Equipment

- Operates in general storage yards, arsenals, petroleum storage areas, airfields, rail yards and port facilities
- Randomly navigates exterior perimeters and roadways, while performing intrusion detection
- Pre-Planned Product Improvements (P3I) will include employing delay devices, integration of fixed exterior sensors into a single system

MDARS-E Program/System Status

PM-PSE
Product Manager, Physical Security Equipment

- Completed final design iteration of MDARS-E vehicle
- Successfully completed informal vehicle test at ATC Robotics Test Course
- Completed and prototyped first design iteration of Internal Locking Device (ILD)
- Completed initial design and integration of Vehicle Mission Payloads and Subsystems
- Conducted design review and demonstration of integrated Vehicle with Subsystems
- Integrated Sarnoff VFE-100 Collision Avoidance and IDS Subsystem into Vehicle

MDARS-E System Requirements

PM-PSE
Product Manager, Physical Security Equipment

- Operate and communicate at least 300 meters from a remote area control unit or signal relay device
- Verify the status of barriers and products within a six meter line-of-sight range
- Achieve a required minimum response speed of 15 KPH with a goal of 30 KPH
- Provide intruder detection and assessment by the mobile platform while on the move
- Provide an annunciator which integrates existing IDS with the platforms

MDARS-E Contract Opportunity

PM-PSE
Product Manager, Physical Security Equipment

Title: MDARS-E

Objective: Award an Engineering and Manufacturing Development (EMD) Contract

Proposed Contract Type: Cost Plus Incentive Fee

Key Milestones: MS I/II IPR, 3QFY99

Estimated Value: $14 to $30M

POC: LTC Bruce M. Swagler
Product Manager, Physical Security Equipment
(703) 704-2416; DSN: 654-2416

CPOC: Mr. Richard Sturgis; (703) 325-6068; DSN 992-6068



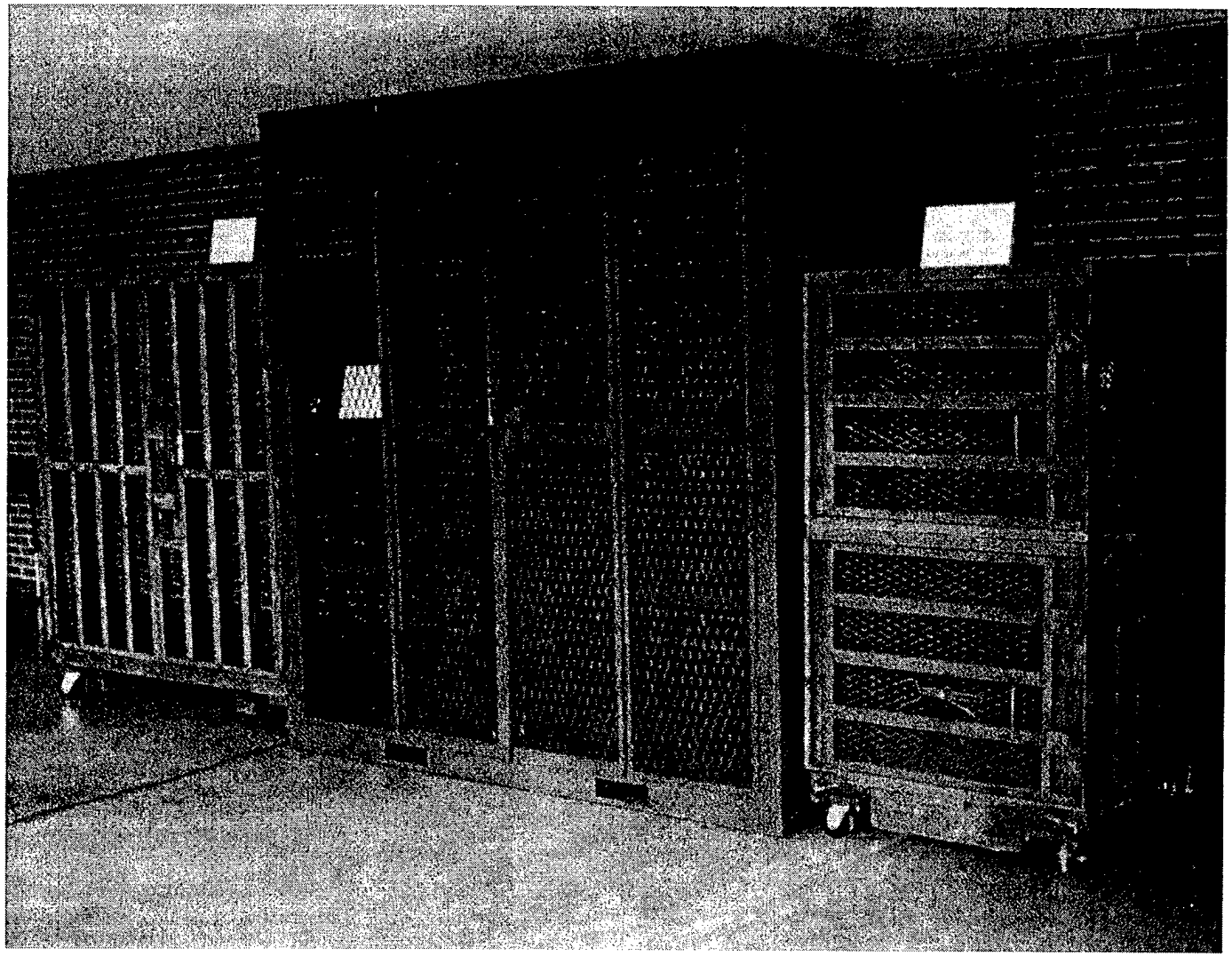
PM-PSE

Product Manager, Physical Security Equipment

High-Value Asset Security Container (HVASC) Phase I (Security Container)

HVASC System

PM-PSE
Product Manager, Physical Security Equipment





HVASC Program/System Definition

PM-PSE
Product Manager, Physical Security Equipment

- Provides commanders a container to secure high-value items in both garrison and field environments
- Increases readiness and sustainability by ensuring the unit maintains on-hand equipment accountability
- Protects highly pilferable, sensitive items such as Night Vision Devices (NVDs), global positioning devices, etc

HVASC Program/System Status

PM-PSE
Product Manager, Physical Security Equipment

- Completed Early User Appraisal (EUA) at Army (Ft. Belvoir and Ft. Campbell), Navy (Naval Station Norfolk and Little Creek Naval Station), and Marine Units (Camp Allen, Norfolk)
- Completed Army directed procurement package
- Completed Safety Release Testing
- Completed Safety Assessment Report
- Finalized Limited Army Distribution List
- Finalized Technical Drawing Package



HVASC System Requirements

PM-PSE
Product Manager, Physical Security Equipment

The specific production requirements are established in the HVASC Technical Drawing Package

HVASC Contract Opportunity

PM-PSE
Product Manager, Physical Security Equipment

Title: HVASC

Objective: Award a Production Contract

Proposed Contract Type: Firm Fixed Price/IDIQ

Key Milestones: Production Contract Award, 4Q98

Estimated Value: $100,00 to $1M

POC: LTC Bruce M. Swagler
Product Manager, Physical Security Equipment
(703) 704-2416; DSN: 654-2416

CPOC: Ms. Margaret Proctor; (703) 325-2859; DSN 992-2859



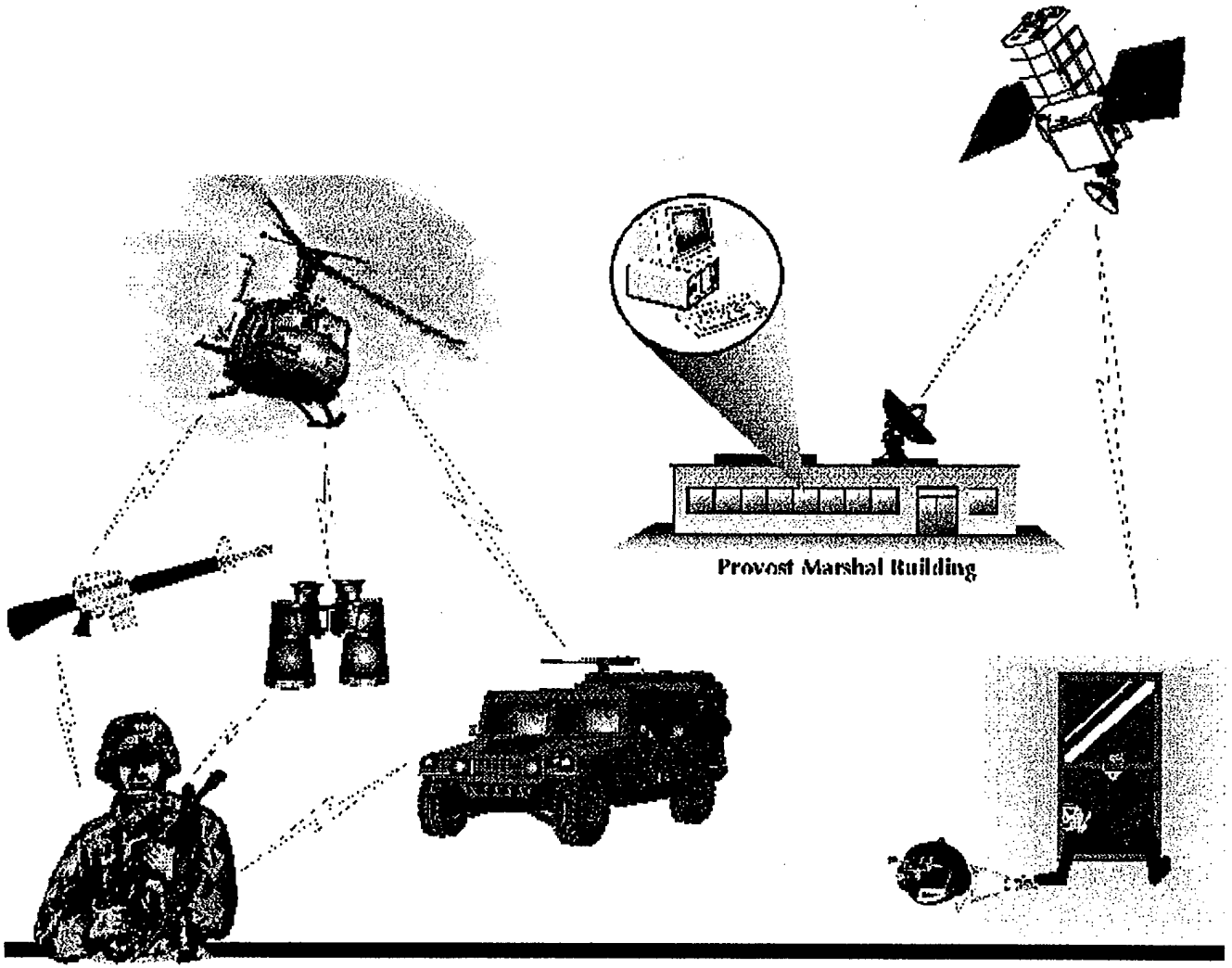
PM-PSE

Product Manager, Physical Security Equipment

High-Value Item Security System (HVISS) Phase II (Radio Frequency Identification)

HVISS System

PM-PSE
Product Manager, Physical Security Equipment



HVISS Program/System Definition

PM-PSE
Product Manager, Physical Security Equipment

- Provides commanders a system to locate and recover high value items in both garrison and field environments
- Increases readiness and sustainability by ensuring the unit maintains on-hand equipment
- Provides accountability of highly pilferable, sensitive items such as night vision devices (NVDs) and global positioning devices, etc



HVISS Program/System Status

PM-PSE
Product Manager, Physical Security Equipment

- Completed initial staffing of Operational Requirements Document (ORD)
- Completed Trade-Off Analysis
- Initiated miniaturized Radio Frequency Identification (RFID) Tagging/Tracking Applied Research effort

HVISS System Requirements

PM-PSE
Product Manager, Physical Security Equipment

System - accountability portion shall detect all tags within an area of at least 256 square meters in five minutes and the locate recovery portion shall detect a specified tags using one unit traveling at 24 kilometers per hour within an area of 22 square kilometers in four hours

Tag - must have unique factory-programmed unalterable identification code and be small enough to be attached to items without interfering with its intended use

Interrogator - threshold weight of four kilograms or less, compatible with Electronic Industries Alliance (EIA)-232C standards, operate for four hours or more by battery and provide visual displays

HVISS Contract Opportunity

PM-PSE
Product Manager, Physical Security Equipment

Title: HVISS

Objective: Award an EMD Contract

Proposed Contract Type: Cost Plus Incentive Fee

Key Milestones: Prepare RFID Board Agency Announcement
Continue Miniaturized RF Tagging/Tracking
Applied Research Effort Complete Best
Technical Approach and COEA

Estimated Value: $2-$10M

POC: LTC Bruce M. Swagler
Product Manager, Physical Security Equipment
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CPOC: Ms. Margaret Proctor; (703) 325-2859; DSN 992-2859



PM-PSE

Product Manager, Physical Security Equipment

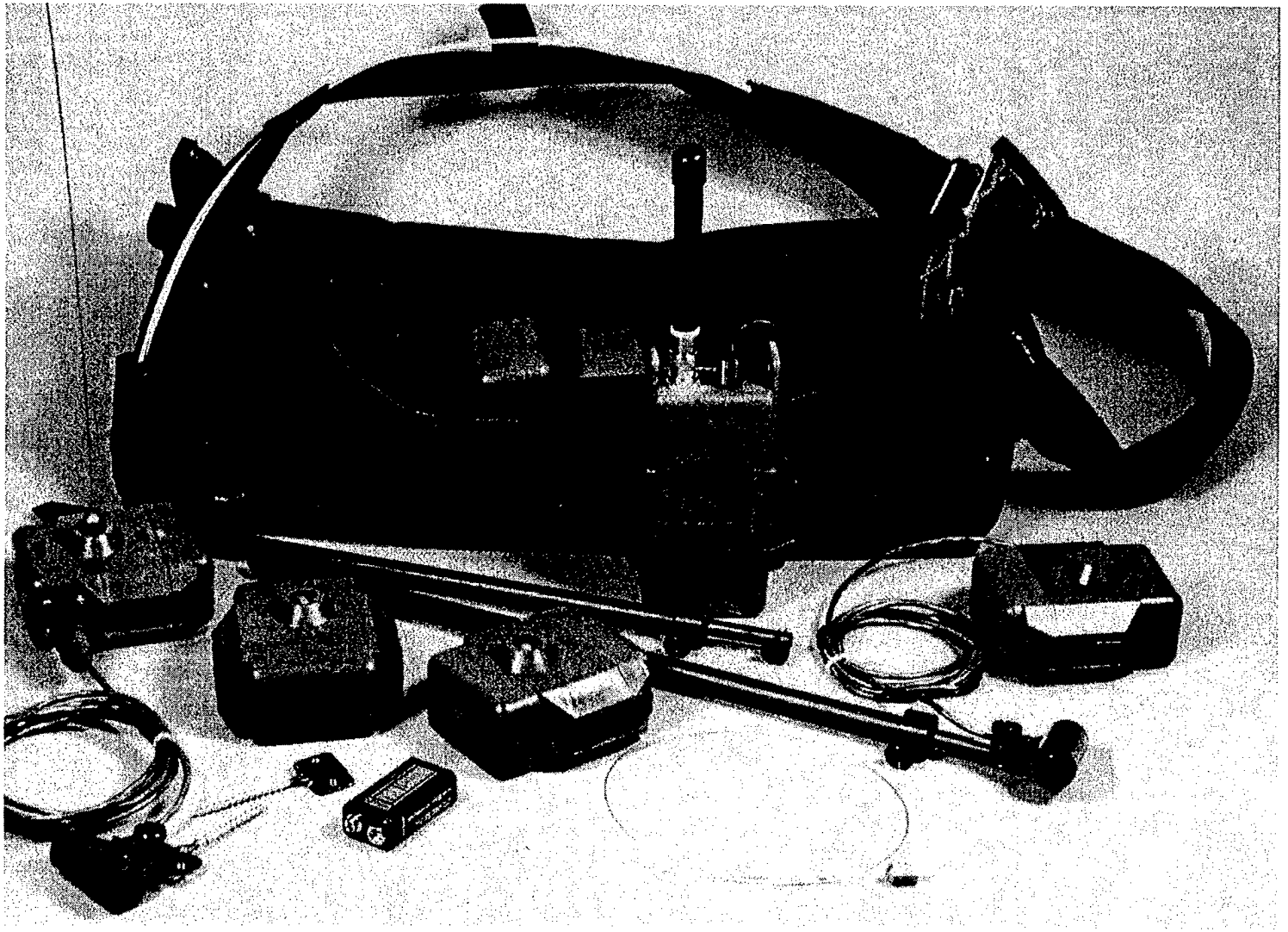
Platoon Early Warning Device-II (PEWD-II)

US ARMY CECOM SYSTEMS MANAGEMENT CENTER

PEWD-II System

PM-PSE

Product Manager, Physical Security Equipment



PEWD-II Program/System Definition

PM-PSE
Product Manager, Physical Security Equipment

- Provides a replacement Tactical Sensor System for the Platoon Early Warning System (PEWS)
- Enhances soldier survivability during defensive and ambush type operations
- Provides early detection of an enemy threat, thi capability will enhance time available to determine the appropriate tactical response
- Organic to tactical units and available under Common Table and Allowances (CTA)

PEWD-II Program/System Status

PM-PSE
Product Manager, Physical Security Equipment

- U.S. Army Infantry Center (USAIC) designated the Combat Developer
- Completed Operational Requirements Documents (ORD)
- Initiated market investigation to identify Non Developmental Item (NDI) (level A)/Commercial Off the Shelf (COTS) systems candidates
- Conducted initial technical testing on four potential candidate NDI(A)/COTS systems

PEWD-II System Requirements

PM-PSE
Product Manager, Physical Security Equipment

- Includes a hand-held monitor, a minimum of seven sensors with transmitters, and carrying case not to exceed seven kilograms (approximately 15.5 pounds)
- Rugged enough to withstand the rigorous handling and stress encountered during combat operations. Performance of the PEWD-II must not be affected by airdrop in an airborne Soldier's rucksack or from vibrations of transportation in combat vehicles
- Be of such low cost and simple design and construction that a sensor which becomes defective can be considered a throw-away item (desired)
- Operable in an NBC contaminated environment by personnel in MOPP4, and be decontaminable



PEWD-II Contract Opportunity

PM-PSE
Product Manager, Physical Security Equipment

Title: PEWD-II

Objective: Award an EMD Contract

Proposed Contract Type: Cost Plus Incentive Fee

Key Milestones: RFP Release 4QFY99
Contract Award 4QFY99

Estimated Value: $40M

POC: LTC Bruce M. Swagler
Product Manager, Physical Security Equipment
(703) 704-2416
DSN: 654-2416

CPOC: Mr. Steve Timchak; (703) 325-1719; DSN 992-1719



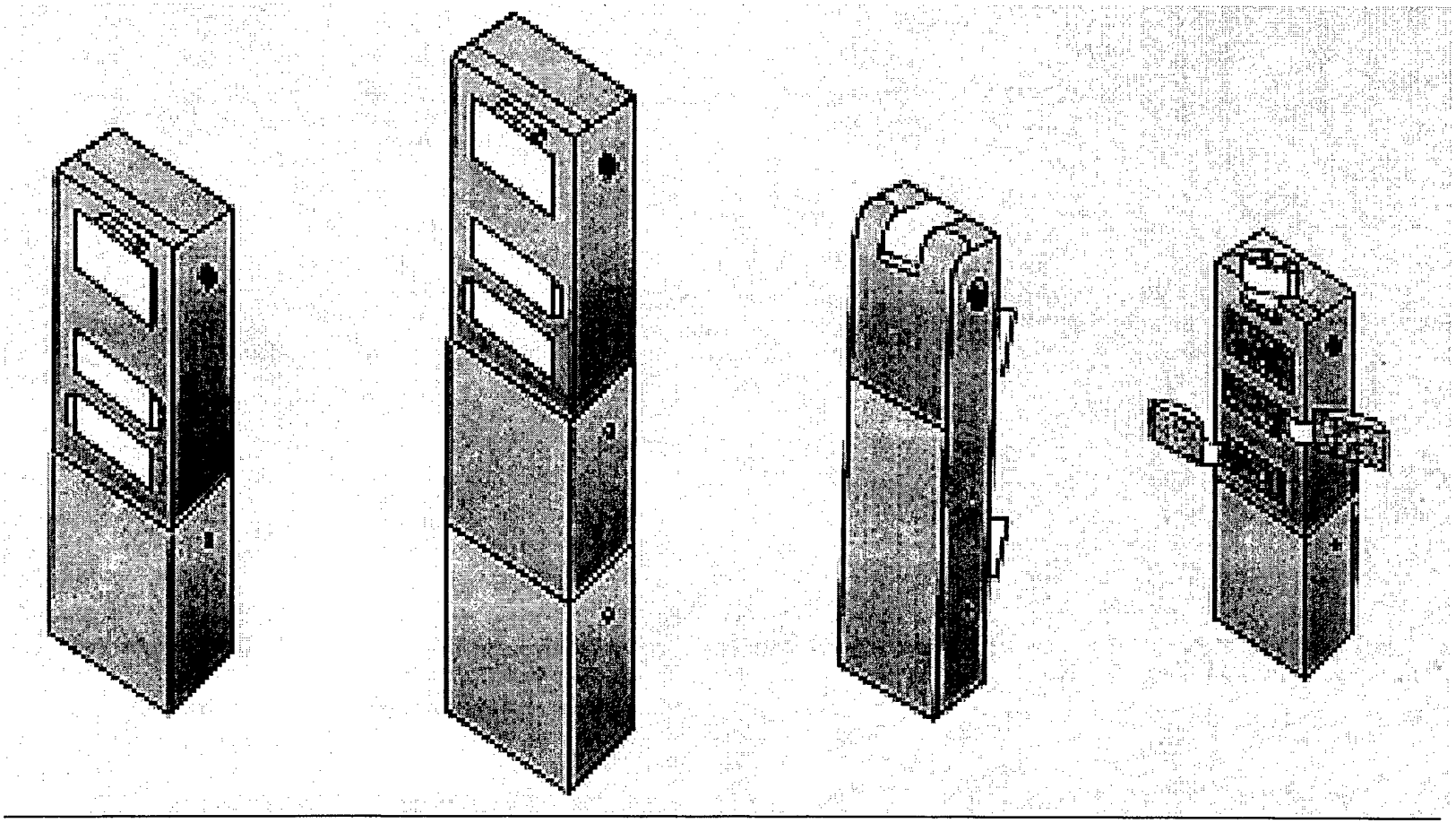
PM-PSE

Product Manager, Physical Security Equipment

Electronic Trip Flare (ETF)

ETF System

PM-PSE
Product Manager, Physical Security Equipment



ETF Program/System Definition

PM-PSE
Product Manager, Physical Security Equipment

- Provides lightweight, manportable, easily emplaced and recoverable motion activated device designed to provide early warning and illumination to individuals and small units
- Provides commanders with an increase in time to effectively determine the most appropriate tactical response
- Used as an independent/individually employed early warning device or as a part of a security concept layer



ETF System Requirements

PM-PSE
Product Manager, Physical Security Equipment

- Module case shall be constructed of a high impact case that will keep the system waterproofed to one atmosphere and objective to two atmospheres

- Battery module(s) shall have sufficient power for 5 day (120 hour) operation of motion sensor, and a minimum of 100 60-second light and audible (horn) activations

ETF Contract Opportunity

PM-PSE
Product Manager, Physical Security Equipment

Title: ETF

Objective: Award an EMD Contract

Proposed Contract Type: Cost Plus Incentive Fee

Key Milestones: RFP Release 1QFY01
Contract Award 3QFY02

Estimated Value: $4.5M

POC: LTC Bruce M. Swagler
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CPOC: Mr. Steve Timchak; (703) 325-1719; DSN 992-1719

NOTES

Global Positioning System

Major Mike Biega

Deputy Program Manager - Army

Product Manager, Global Positioning System (GPS)

NAVSTAR GPS Joint Program Office

UNCLASSIFIED

AMSEL-DSA-GPS 24 Apr 98

POINT PAPER

SUBJECT: Defense Advanced GPS Receiver (DAGR)

OBJECTIVE: Provide information for attendees at the CECOM APBI on the DAGR acquisition that is managed by the NAVSTAR GPS Joint Program Office (JPO), Los Angeles Air Force Base, CA.

FACTS:

- The DAGR is a self-contained secure GPS receiver designed for handheld and integrated use. It replaces the handheld Precision Lightweight GPS receiver (PLGR).

- The DAGR will upgrade capabilities currently available in the PLGR. Some upgrade features include the Selective Availability Anti-Spoofing Module (SAASM), enhanced anti-jam technology, and the latest in commercial GPS technology.

- The key milestones for the DAGR acquisition are:

    - Draft RFP: Dec 98
    - Final RFP: Jun 99
    - Award: Nov 99
    - Army Buy: Oct 00

- PM GPS is estimating a DAGR requirement of approximately 190,000. The Joint requirement is estimated to be approximately 320,000. The estimated unit cost of a DAGR ranges from $1500 to $2300. The estimated total Army cost ranges from $300 to $500 Million and the estimated Joint cost ranges from $300 to $750 Million.

- This will be a Firm-Fixed-Price, Indefinite Delivery/Indefinite Quantity procurement. It will be a Best Value evaluation with one award. The contract is planned to run five years with two option years.

BRIEFER: Major Mike Biega, Deputy Project Manager-Army, representing the Product Manager GPS at the NAVSTAR GPS JPO.

AMSEL-DSA-GPS 24 Apr 98

POINT PAPER

SUBJECT: GPS Receiver Applications Module (GRAM)

OBJECTIVE: Provide information for attendees at the CECOM APBI on the GRAM acquisition that is managed by the NAVSTAR GPS Joint Program Office (JPO), Los Angeles Air Force Base, CA.

FACTS:

- The GRAM is "GPS on a card". It places the full functionality of a secure GPS receiver on a standard-bus card. The GRAM allows the GPS customer to embed a standard, approved GPS module into a host application system, thus saving space and weight.

- The GRAM will include the latest in commercial GPS technology as well as the Selective Availability Anti-Spoofing Module (SAASM) and enhanced anti-jam technology. The GRAM will come in standard form factors and be designed with an open systems, plug and play approach to systems integration.

- The key milestones for the GRAM acquisition are:

    - Draft RFP: Dec 98
    - Final RFP: Jun 99
    - Award: Nov 99
    - Army Buy: Oct 00

- PM GPS is estimating a GRAM requirement of approximately 480,000. The estimated unit cost of a GRAM ranges from $1000 to $3000. The estimated total Army cost ranges from $480 Million to $1.4 Billion.

- This will be a Firm-Fixed-Price, Indefinite Delivery/Indefinite Quantity procurement. It will be a Best Value evaluation with one award. The contract is planned to run five years with two option years.

BRIEFER: Major Mike Biega, Deputy Project Manager-Army, representing the Product Manager GPS at the NAVSTAR GPS JPO.

AMSEL-DSA-GPS 24 Apr 98

POINT PAPER

SUBJECT: GPS/Inertial Navigation System (GPS/INS)

OBJECTIVE: Provide information for attendees at the CECOM APBI on the GPS/INS acquisition that is managed by the NAVSTAR GPS Joint Program Office (JPO), Los Angeles Air Force Base, CA.

FACTS:

- The GPS/INS incorporates a tightly coupled miniature secure GPS receiver and a miniature inertial measurement unit. It furnishes the user with a low cost navigation solution that provides the accuracy of GPS and the dependability of an INS.

- The GPS/INS will incorporate the Selective Availability Anti-Spoofing Module (SAASM), provide enhanced anti-jam technology, and meet emerging standards for the GPS Receiver Applications Module (GRAM) as part of the GPS package. It will employ independent navigation modes to include inertial-only, GPS-only and integrated GPS/INS. The GPS/INS acquisition is based on the DARPA-sponsored development project, the GPS Guidance Package.

- The key milestones for the GPS/INS acquisition are:

    - Draft RFP: Dec 98
    - Final RFP: Jun 99
    - Award: Nov 99
    - Army Buy: Oct 00

- PM GPS is estimating a GPS/INS requirement of approximately 80,000. The estimated unit cost of a GPS/INS ranges from $5000 to $15,000. The estimated total Army cost ranges from $400 Million to $1.2 Billion.

- This will be a Firm-Fixed-Price, Indefinite Delivery/Indefinite Quantity procurement. It will be a Best Value evaluation with one award. The contract is planned to run five years with two option years.

BRIEFER: Major Mike Biega, Deputy Project Manager-Army, representing the Product Manager GPS at the NAVSTAR GPS JPO.





Defense Advanced GPS Receiver (DAGR)

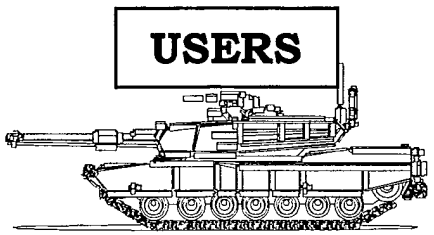


DAGR Definition



The DAGR is a self-contained secure GPS receiver designed for handheld and integrated use. The DAGR replaces the Precision Lightweight GPS Receiver (PLGR).

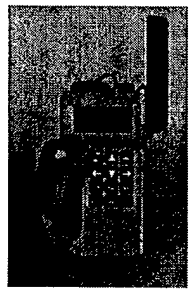
DAGR Requirements



REQ'M'TS, PRICE - PERFORMANCE TRADE-OFFS

DAGR

PLGR IPT



LESSONS LEARNED

- Selective Availability Anti-Spoofing Module (SAASM)
- One Handed Operation (ease of use)
- Graphical User Interface
- Smaller and Lighter
- Mass Customization (diverse user base)
- Improved Anti-Jam
- All-In-View
- Dual Frequency
- Backward Compatibility

Some Projected DAGR Applications

Application	Estimated Quantity
Handheld	75,000
M113/M60 Family of Vehicles	3,400
HMMWV	1,800
Patriot	674
Breacher (Grizzly)	418
Total DAGRs	**190,000/320,000**

Contract Opportunity

TITLE: Defense Advanced GPS Receiver (DAGR)

OBJECTIVE: Meet All Army GPS Handheld and Dismounted Applications

PROPOSED CONTRACT TYPE: FFP/IDIQ/Best Value

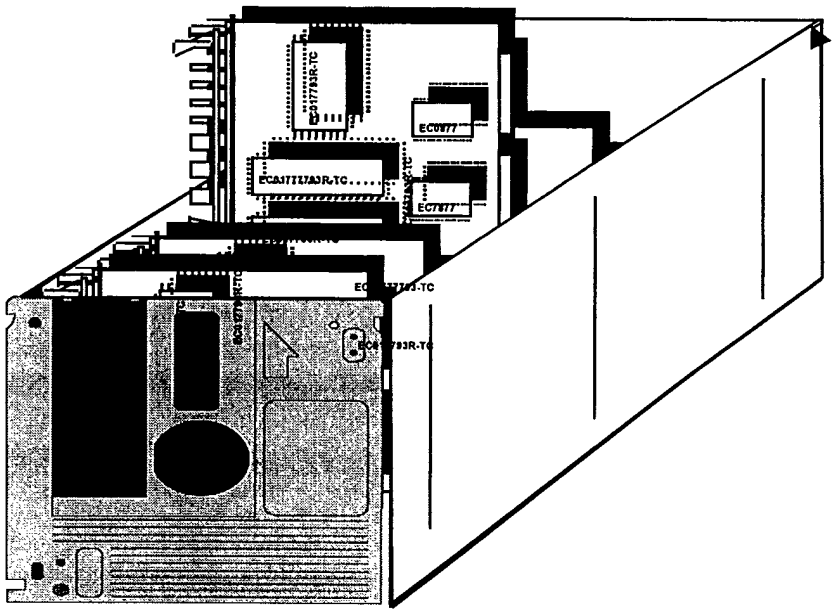
KEY MILESTONES:

Draft RFP:	Dec 98
Final RFP:	Jun 99
Award:	Nov 99
Army Buy:	Oct 00

ESTIMATED VALUE: Unit: $1,500 - $2,300
Total: $300 Million - $750 Million

TECH POC/TEL #: MAJ Mike Biega/(310) 363-2925
CONTRACT POC/TEL #: Lisa Vanderpoorten/(310) 363-6360

GPS Receiver Applications Module (GRAM)





GRAM Definition



The GRAM is "GPS on a card." The GRAM places the full functionality of a secure GPS receiver on a standard-bus card. It allows the GPS customer to embed a standard, approved GPS module into a host application system, thus saving space and weight.

GRAM Requirements

- Incorporates SAASM
  - GRAM/SAASM Contract
- Comes in Standard Form Factors
  - Standard Electronic Module Enhanced (SEM-E)
  - Versa Module Europe (VME)
  - PCMCIA
- Designed for Plug and Play
  - GRAM Guidelines
  - Interface Control Documents, Especially ICD-GPS-155*

* GPS User Equipment Interface Control for GPS Receiver Applications Modules (GRAM) Bi-Directional Data Port

Some Projected GRAM Applications

Application	Estimated Quantity	Form Factor
Land Warrior	88,000	PCMCIA
Movement Tracking System	55,000	PCMCIA
Apache (AH-64D)	1,500	SEM-E
M1A2 Abrams (SEP)	1,000	VME
XM982/Low Cost Competent Munitions	246,000	?
Total GRAMs	480,000	

Contract Opportunity

TITLE: GPS Receiver Applications Module (GRAM)

OBJECTIVE: Meet All Army GPS Embedded Applications

PROPOSED CONTRACT TYPE: FFP/IDIQ/Best Value

KEY MILESTONES:

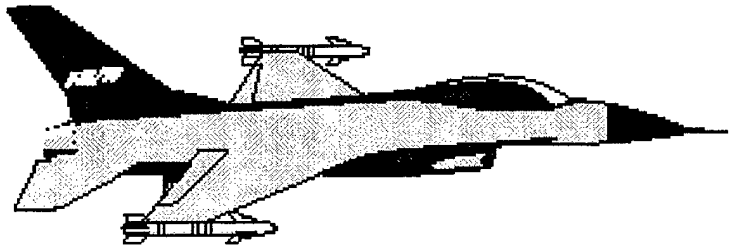
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Final RFP:	**Jun 99**
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Army Buy:	**Oct 00**

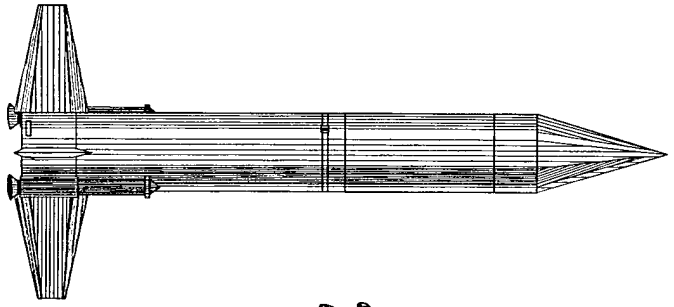
ESTIMATED VALUE:

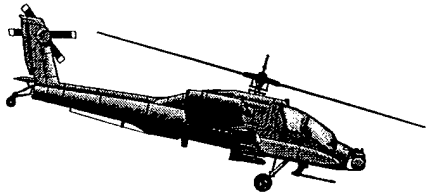
Unit:	**$1,000 - $3,000**
Total:	**$480 Million - $1.4 Billion**

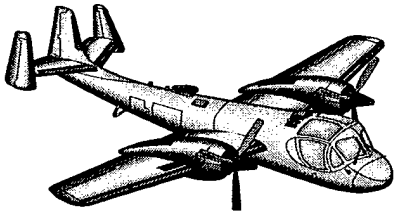
TECH POC/TEL #: MAJ Mike Biega/(310) 363-2925
CONTRACT POC/TEL#: Lisa Vanderpoorten/(310) 363-6360

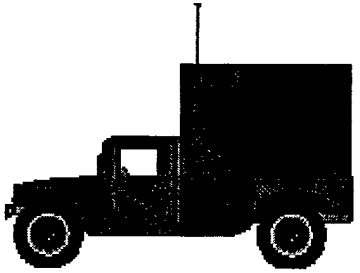
GPS/Inertial Navigation System (GPS/INS)

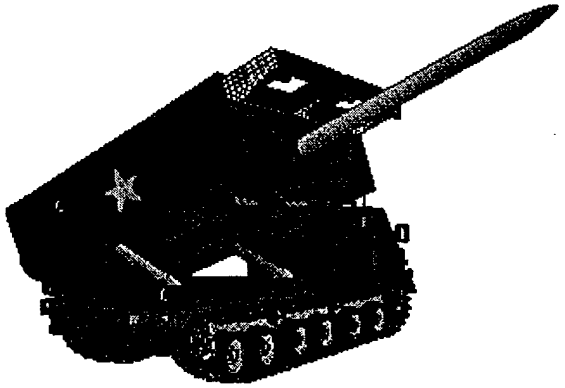


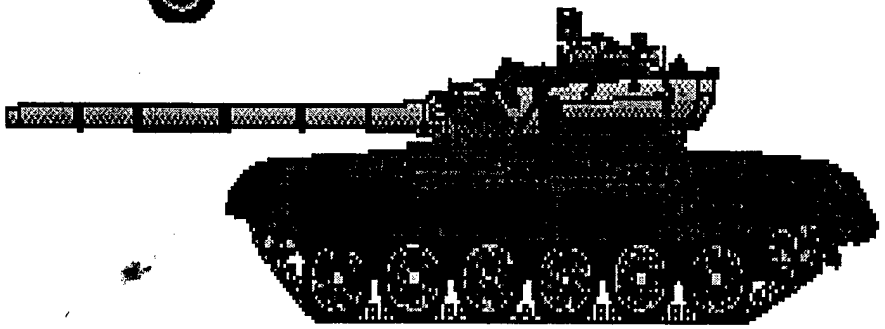












GPS/INS Definition

The GPS/INS incorporates a tightly coupled miniature secure GPS receiver and a miniature inertial measurement unit. It furnishes the user with a low cost navigation solution that provides the accuracy of GPS and the dependability of an INS.

GPS/INS Requirements

- Incorporates SAASM
- Meets GRAM Specifications
- Employs Independent Navigation Modes
  - Inertial Only
  - GPS Only
  - Integrated GPS/INS
- Based on DARPA-Sponsored GPS Guidance Package

Contract Opportunity

TITLE: GPS/Inertial Navigation System (GPS/INS)

OBJECTIVE: Meet the Navigation Requirements for Mission Critical Systems that Require the Accuracy of GPS Complimented with the Dependability of an INS

PROPOSED CONTRACT TYPE: FFP/IDIQ/Best Value

KEY MILESTONES:

Draft RFP:	Dec 98
Final RFP:	Jun 99
Award:	Nov 99
Army Buy:	Oct 00

ESTIMATED VALUE:

Unit:	$5,000 - $15,000
Total:	$400 Million - $1.2 Billion

TECH POC/TEL #: MAJ Mike Biega/ (310) 363-2925
CONTRACT POC/TEL #: Lisa Vanderpoorten/(310) 363-6360

Some Projected GPS/INS Applications

Application	Estimated Quantity
Guided MLRS	75,000
ATACMS Blk IIA	600
Crusader Advanced FA System	700
Bradley FVS Upgrade	?
Comanche (RAH-66)	2,600
Total GPS/INS	**80,000**

Challenges

1. **Navigation Warfare (NAVWAR) Upgrades (Anti-Jam/Anti-Spoof)**
2. **GPS Modernization Upgrades (New Signal Structure/Pseudolites)**
3. **Horizontal Technology Integration Program**
4. **Integration of 170 Army Platforms**
5. **Memorandum of Agreement with Each System**
6. **Funding**

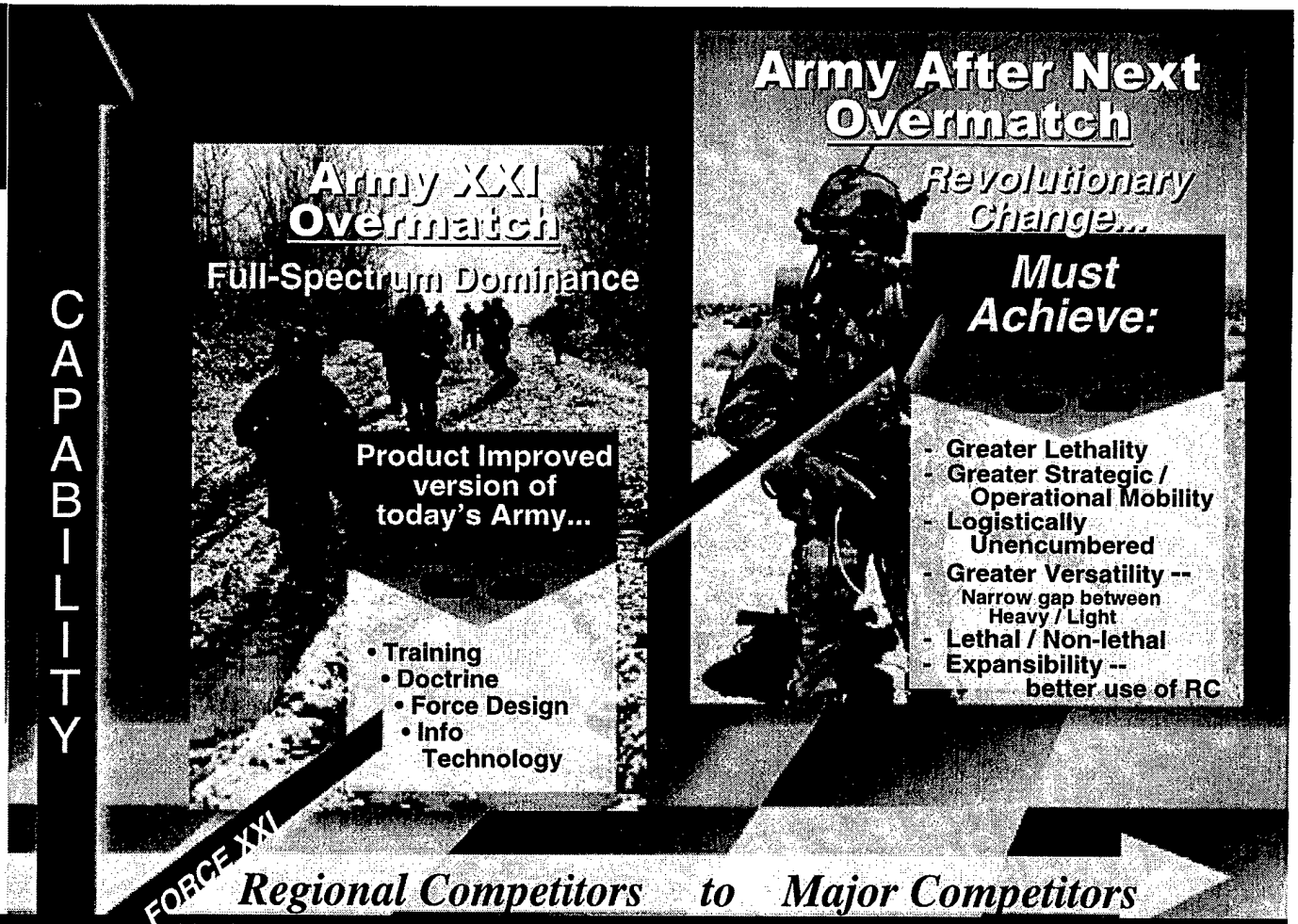
NOTES

SESSION V

Program Executive Office
Intelligence, Electronic Warfare & Sensors

Army initiatives enable a process of strategic change

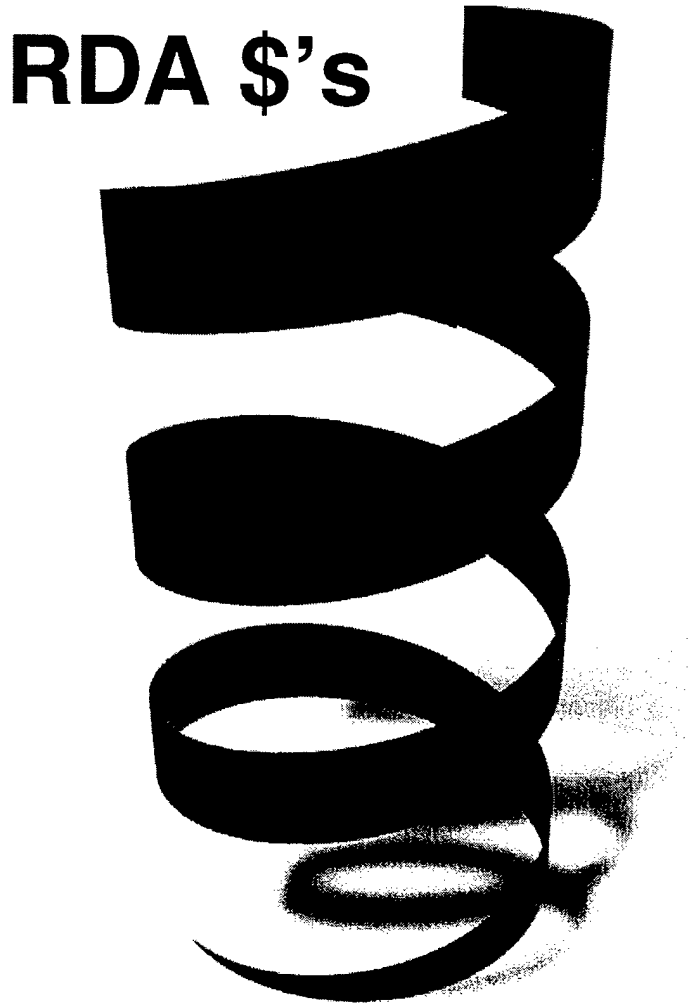
Fielding & Sustaining Force XXI while focusing on the Army After Next



O&S Costs Briefing to Industry — **Mr. Edward T. Bair - DPEO IEW&S**

Unclassified

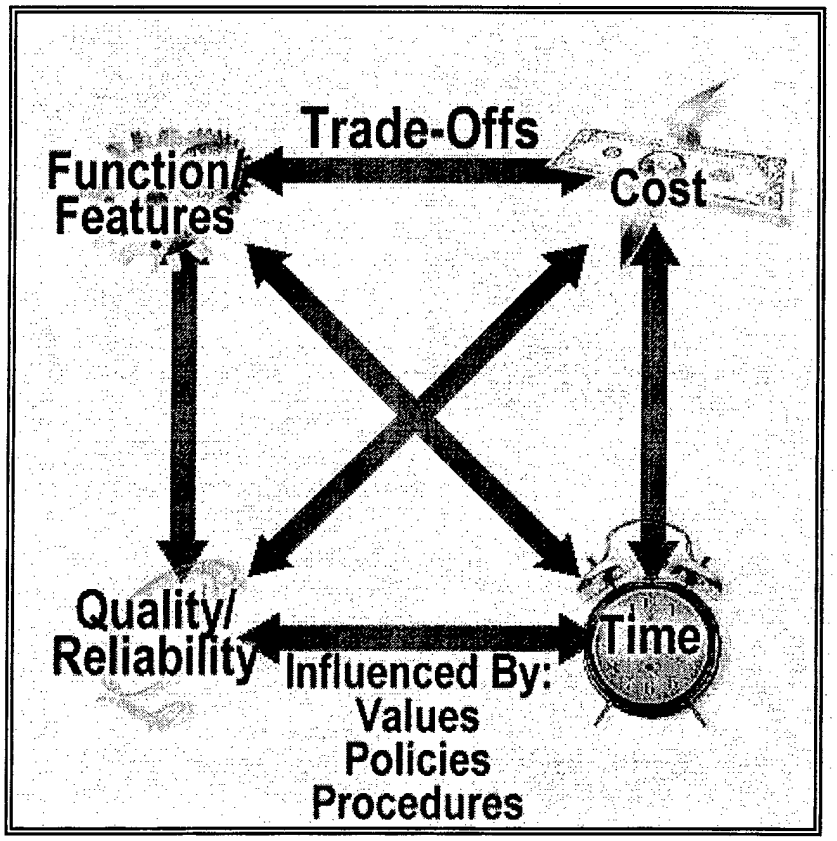
Challenge



- TOA Not Going to Increase
- Extended Service Life of Equipment
- Increased O&S Costs

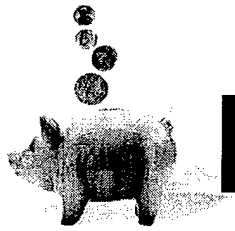
Avoid Death Spiral - Reduce Ownership Costs

PEO IEW&S Intent



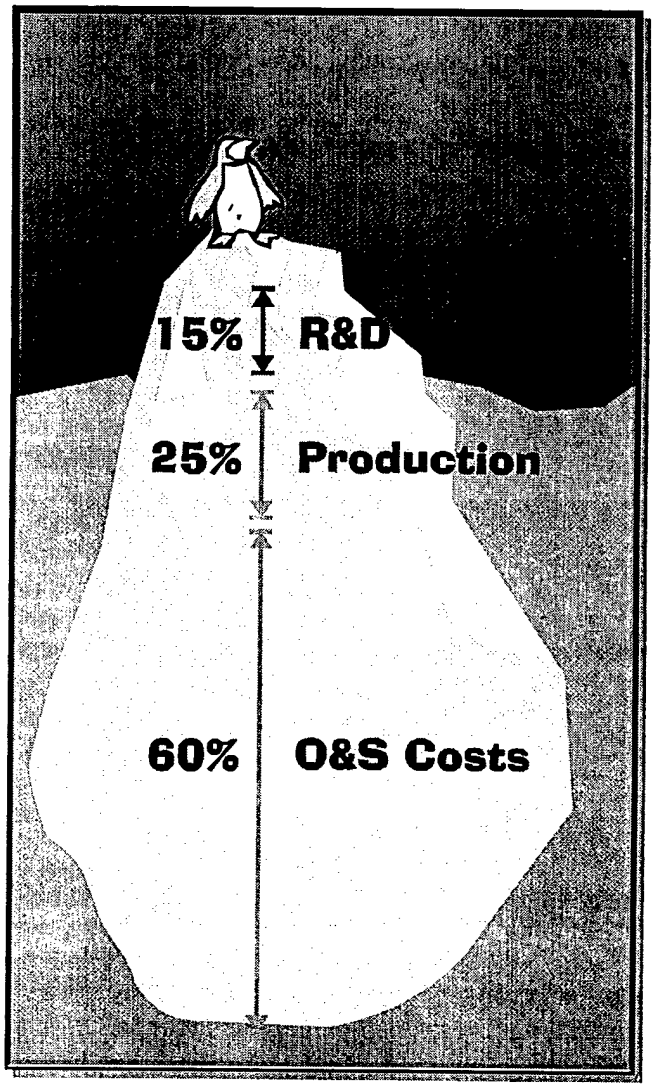
Our Challenge is to Apply Business Thinking and Parametric Tools, Reduce the Overall Cost of Ownership, and to Be Able to Articulate the "Whole" Story

It's All About Affordability...



Cost of Ownership

- O&S Cost Reductions are Clearly an Area Where Savings can be Achieved to Fund Force Modernization
  - 60% or More of Life Cycle Costs (LCC) are in O&S
  - Yet 90% are Driven by Early R&D Design Decisions
  - As Systems Age, O&S Costs Increase Dramatically
- PM is Responsible for Total LCC Fielded Systems
  - If a Ford Can Do the Job, Why Buy a Cadillac?
  - New & Legacy Systems
  - Need to Identify Cost Drivers and Evaluate for Design Alternatives
  - Form IPT to Identify and Work Solutions
- Attacking the Problem Requires New Strategies
  - Identify O&S Requirements in the ORD
  - Evaluate Existing Data from the LRC (Especially on Legacy Systems)
  - Trade off Analysis of Design Alternatives to Reduce Cost



What's O&S Cost?

- No One Tool Will Do It All, We Need to Identify Which are the Best Tools
- Right Now We Can't Measure
- We're Not Sure!
- Lack Tools to Quantify/Predict
- We're Different, We Need to Be Ready for War
- Just Focus on Reliability; Cost Will Take Care of Itself
- Who is Responsible?
- PM is Responsible but Lack Funding

How can we manage what we can not measure?

IEW&S
INSTITUTE FOR EXCELLENCE IN WRITING

"The difficulty lies, not in the new ideas, but in escaping from the old ones..."

John Maynard Keynes, Economist

O&S Cost Reduction Ideas

A Major PEO IEW&S Initiative for CY98

- Influence O&S Cost Consideration in ORD
- ID/Prioritize O&S Cost Drivers as Criteria in Source Selections
- Modernization Through Spares (MTS)
- Cost as an Independent Variable (CAIV)
- Open Architecture Design
- Reliability Maintainability Supportability
- Value Management Methodology
- Velocity Management
- Obsolesce Risk Management
- Life Cycle Cost Modeling
- Performance Based Logistics
- Commercial Standards
- Just in Time Support
- Electronic Support Centers/Regional Support Centers
- World-Wide Distribution Capabilities
- Incentivize Contractors
- Innovative Warranties to Evidence Product Quality
- Horizontal Technology Insertion
- Product Reuse
- Modularity Without Sacrificing Capability
- Single Process Initiative
- Dual-Use
- Flexible Computer Integrated Mfg/ Intelligent Product Data
- Leasing
- Performance Based Specs & Stds.
- COTS/NDI

O&S Cost Reduction

"Where's the Opportunity?"

Requirements → ORD → RFP/Source Selection → Contract Implementation → Deployment/ Sustainment



Development → Production → Deployment → Disposal →

A Fertile Area

O&S Cost Consideration "Early On" in Life Cycle

Use of CAIV Principles Nets Expected Savings!	•CIDDS: Negotiated ORD Requirement for Cold Storage - $23M •CIDDS: Increased Operational Availability from 48 hours to 48 days
Use of Commercial "Off-the-Shelf" Saves!	•Sentinel: Conversion to Commercial Software & Elimination of Militarized UYK-44 Saves $15.8M
Use of Contractor Warranty vs. Depot Support Reduces Cost of Ownership!	•JTT: 10 Year Warranty Expected to Save Army $21.5M
Use of Existing Technology Reduces Production and O&M Costs!	•Sentinel: Use of Army Std Generator Saves $8.5M in Production Costs & $8.5M in O&M Savings
Use of Modeling to Determine Best Maintenance Concept to Save O&S!	•Current Night Vision Thermal Omnibus Solicitation
Use of Competition to Determine Best Support Concept to Reap O&S Benefits!	•Upcoming Image Intensification Integrated Logistics Support Solicitation
Use of Oper Rqmts Doc (ORD) to Emphasize Cost Reductions!	•Advanced Common Sensor Candidate System for Early Consideration of O&S in ORD

A Success Story

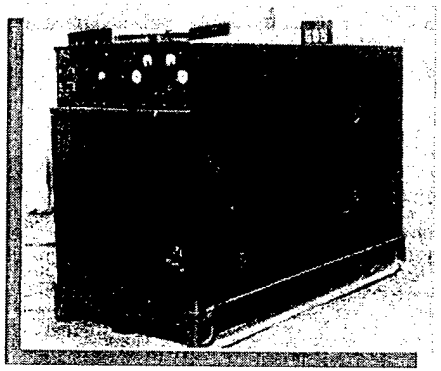
Sentinel Reuse:

Sentinel Power Source Cost Reduction Efficiencies

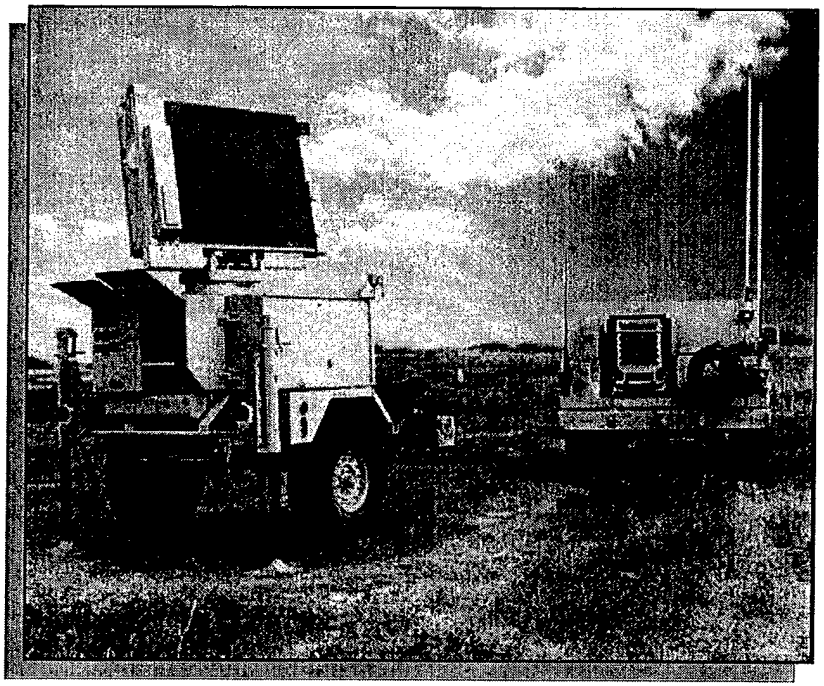


Achieves Army Thrust to Reduce Power Sources Costs By 50%

- Army Selects MEP-813 Tactical Quiet Generator (TQG) for the Sentinel
- $5.8M Savings in Production Due to Reuse
- $4.4M Savings in O&M Costs
- Common Logistics With FAAD C^2



Use of "Commercial-Off-the-Shelf" Reduces Life Cycle Software Support Requirements



Sentinel System
AN/MPQ-64

- Conversion to Commercial Language and Rehost on Existing Processor
- Elimination of Militarized UYK-44 and Associated Support Saves $15.8M

Power Management Sustainment



- Energy Strategy - Focus on Energy Consumption as Well as Energy Supply
- System Design - Consider Energy Efficiency in All Phases & All Segments (e.g. Software, System Architecture, Interfaces, Protocols)
- Use of Commercial Technology - Leverage Advances in Consumer Electronics
  - Military Applications are Far Behind Commercial - Even When Designed by Same Company (Source: NRC)

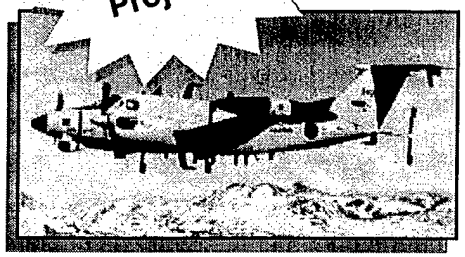
CIDDS Utilizing Motorola Cellular Power Source Resulted in Increased Operational Availability From 48 Hours to 40 Days!

Commercial O&S Savings Initiative (COSSI)

- Objective - Insert Commercial Products/Processes into Existing Fielded Systems to Reduce O&S Costs
  - Stage I (DUAP Funds) - Deliver Prototypes, Demonstrate Savings Potential
  - Stage II (Service Funds) - Procure Kits and Retrofit Systems

COSSI Programs

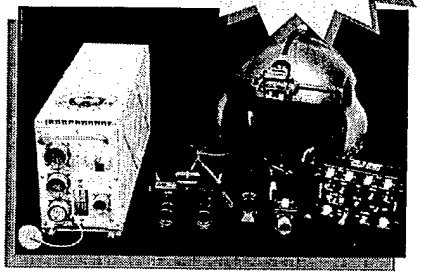
$13M Savings in O&S Projected



Replace GR/CS Mainframe Computer with Commercial UNIX/VME Based Maxion System

- 6 Fold Reduction in Size
- 7 Fold Reduction in Unit Cost
- 30 Fold Increase in Processing Speed

$15M Savings in O&S Projected



Replace ANVIS HUD CRT Display with Flat Panel Technology

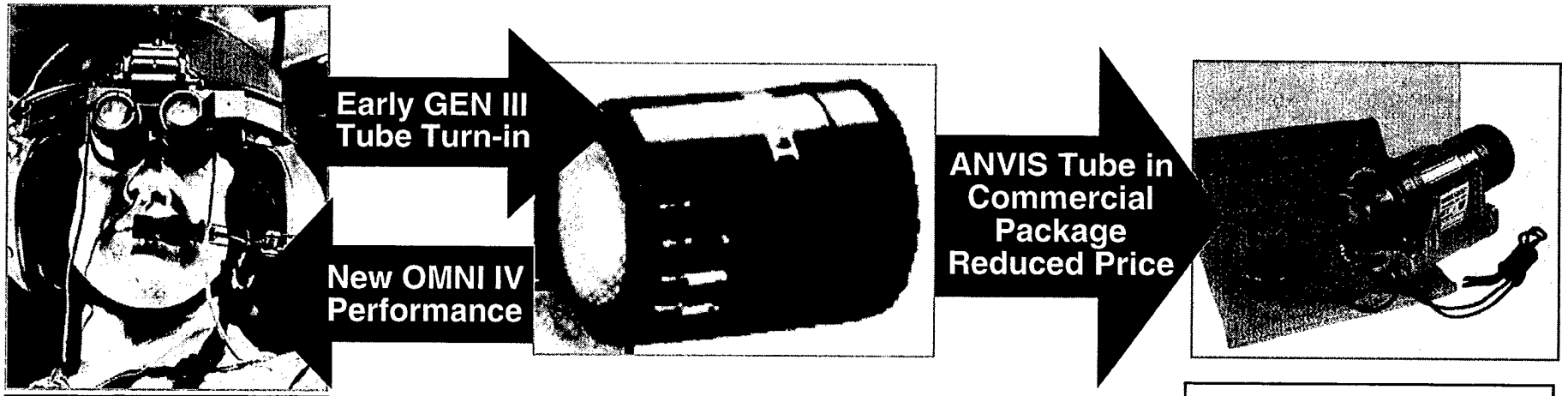
- Reduced Weight/Size/Power
- 2 Fold Reduction in Unit Cost
- Multiple Vendors (Vice Current Single Vendor)

"Best Commercial Practice"

Image Intensifier (I2) Turn-in Pilot Initiative

Return of $600.00 per System or One Free ANVIS for Every 10 Purchased!

- Pilot Program Ongoing Between PEO IEW&S and ITT Night Vision
- Turning in Early GEN III ANVIS Systems for Upgrade to Latest Omni IV Level
- Turned in Tube Being Repackaged in Commercial System for Reduced Price System for Critical Search and Rescue Missions



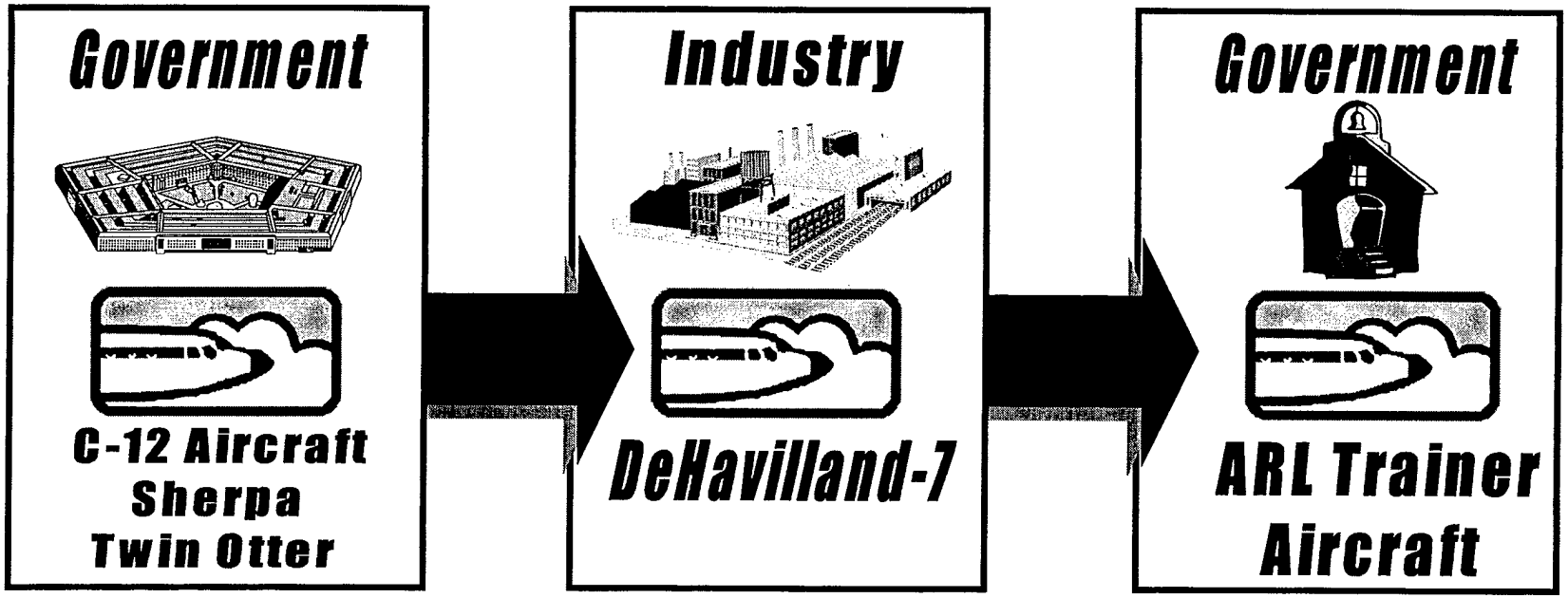
Government Gets Much Needed Upgrades for ANVIS Systems with Credit for Older Tubes

ITT Gets Business for Upgrade of ANVIS and Ability to Resell Older Tubes for Commercial Market

Commercial Market Gets Quality Military Equipment at Affordable Prices for Critical Search And Rescue Civic Missions

A Business Opportunity to Reduce O&S

Aerial Common Sensor "*Trade-A-Plane*" Program



- *Trade of Excess Commercial Aircraft to Satisfy Army Trainer Rqmt.*
- *CBD Announcement Nets Three Potential Vendors*

Gov't Receives 3 ARL Trainer Aircraft and Recoups Additional Savings

Mitigates CONUS Resident Training

Reduces Wear to Fielded Systems

Cost Avoidance of $2.5M Annually in Contr Training & Aircraft Leasing Costs

Factors Shaping the "Business" Decision

Industry Perceptions

Military

- **Acquisition Contract Driven**
  - Framed in Boiler Plate RFQ
  - Specification Directed
  - No Standard Pricing
  - "Fuzzy" Decision Process for Determining "Best Value"
  - Short Range/Cost to Field Look With Long Range Cost of Ownership "Best Guesses"
  - No Way to Quickly Capture/Insert Improved Technology
  - "Knee Jerk" Response to Requirements

Commercial

- **Voluntary System Driven by Market Factors (Cost, Service & Time)**
  - Best Commercial Practices
  - Value for the Money/Standard Prices
  - Product Performance & Warranty at That Price
  - Service
  - Improved Technology Evaluation Through Customer Feedback
  - Long Range Marketing and Sales Goals Planned
  - Long Term Trends Visible & Measured

"In the Military Market, You Run Around and Brag About a Piece of Performance or a Piece of Equipment and What it Can do. In the Commercial Market, You Have Only One Shot: Can it Make Money?"

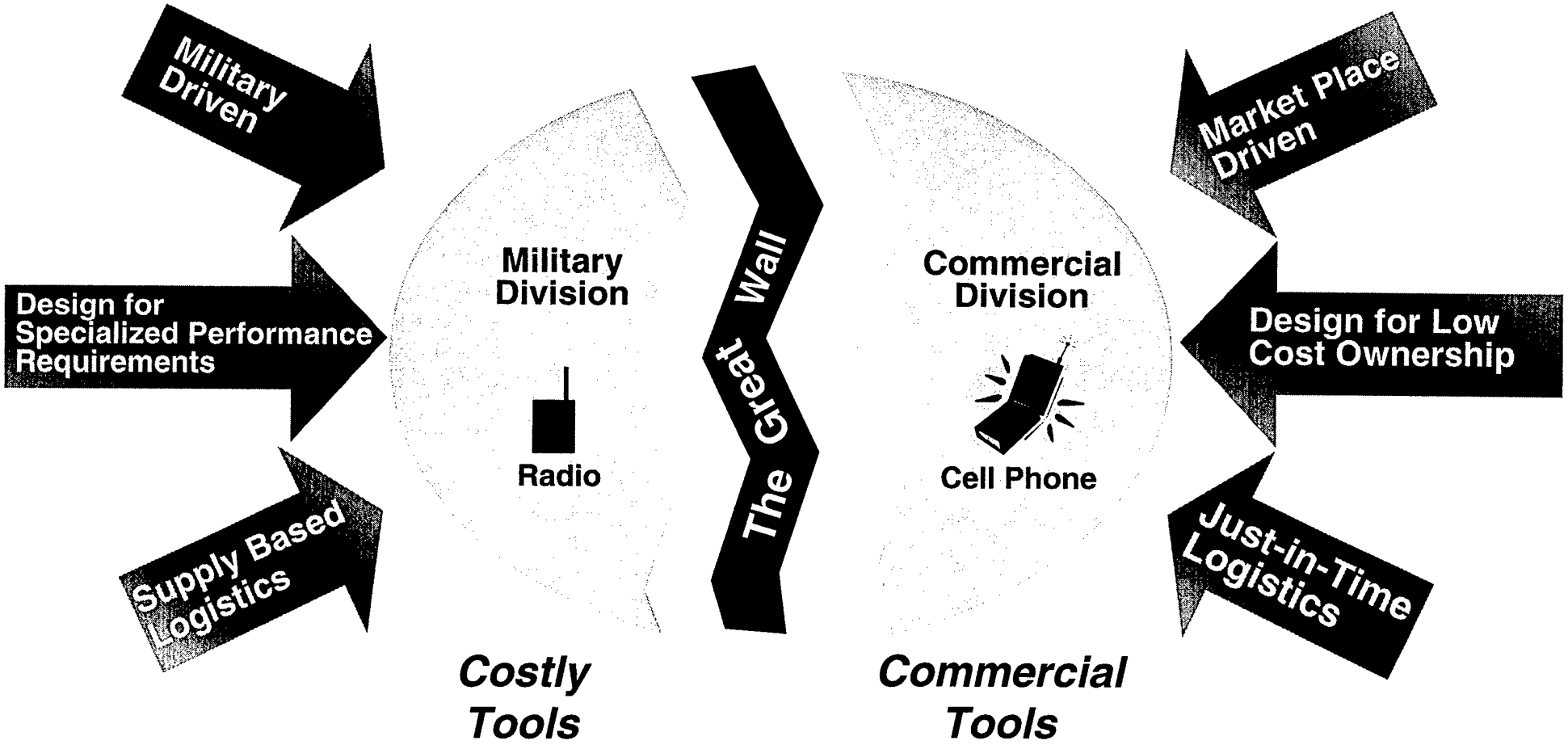
~ Charles Kaman
Chairman, President & CEO, Kaman Corp.
Defense News, April 7-13, 1997

Change

"Faced with a choice between changing one's ways and proving that there is no need to do so, almost everybody gets busy on the proof"

- John Kenneth Galbraith

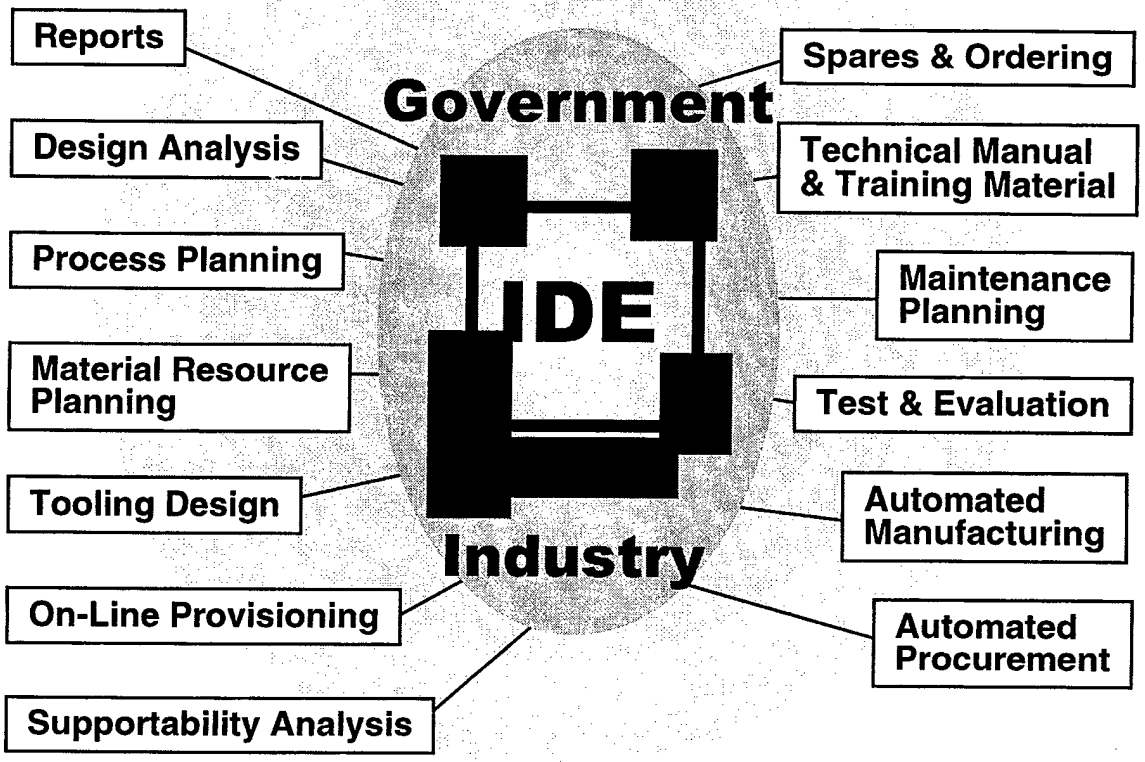
Contract Knowiedge Dichotomy



We Need to Learn Lessons From the Commercial Side

Integrated Data Environment (IDE)

- PEO IEW&S Working with Industry Partners to Transition From Traditional Paper-Driven Systems to IDE
  - –Executive Session with DPEO (4 Mar 98)
  - –Performance Based Requirements Briefing to Industry (April 98)
  - –Implementation on New Programs (4Q98)
- Strategy is to Capitalize on the Contractor's Databases for Common Data Element Sharing
- JCALS System Being Used as Pilot for Several Programs
  - –IEW&S Omnibus Support Contract
  - –CIDDS Contract



" I am setting a corporate goal of digital operations being the method of choice for all acquisition management and life cycle support information...by the end of 2002."

- SECDEF Policy Memo 2 July 1997

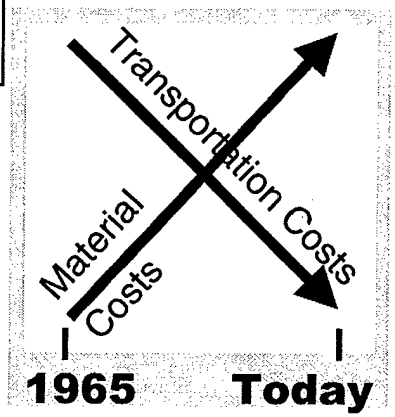
NDI/COTS vs. the Military System

- To Reduce Acquisition Costs we Endeavor to Produce NDI/COTS Equipment, But as a Whole we Fail to Take Advantage of the Commercial Support System that Goes with the Hardware/Software
  - Warranties & Extended Warranties
  - 1-800 Help Lines and Service Areas
  - Field Support Representatives
- We try to fit NDI/COTS Equipment into our Military Processes Instead of Leveraging the Commercial System
  - The Commercial Support System and the Military Support System have a Different Focus
    - Military: Availability at all Costs & No Risk
    - Commercial: Availability While Balancing Cost & Risk

We need to not only accept and encourage the implementation of NDI/COTS hardware & software but also the support system that goes with it!

Supply Support Paradigm

30 Years Ago	
Material Costs	Low
Transportation Costs	High



Today	
Material Costs	High
Transportation Costs	Low

Forward Deploy Spares

Leverage The Available Commercial Transportation System to Minimize Cost of Procuring and Storing Spare Parts?

C-MRL Savings of 57% in Transportation Utilizing US Post Office

Causing Change...

"In any moment of decision

the best thing you can do is the right thing, the next best is the wrong thing, and the WORST thing you can do is NOTHING."

- Theodore Roosevelt

O&S Cost Reduction

"Where's the Opportunity?"

Requirements → ORD → RFP/Source Selection → Contract Implementation → Deployment/ Sustainment



Development → Production → Deployment → Disposal →

"We need output metrics to measure progress…"

IEW&S
PROGRAM EXECUTIVE OFFICE

Tactical Unmanned Aerial Vehicles (TUAV) Sensor Integration Plan

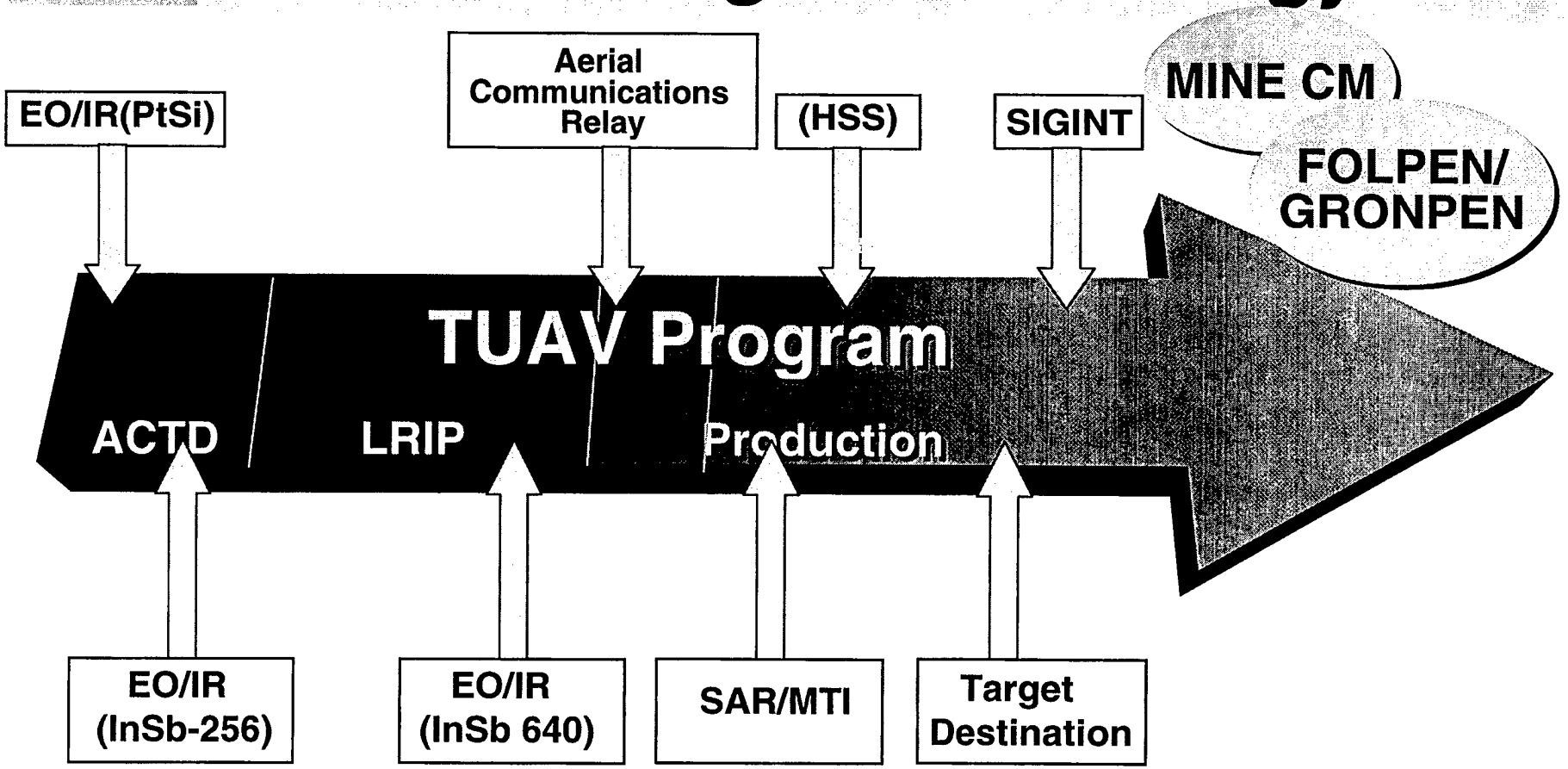


Centralized Management for TUAV Sensors

"I am designating PEO-IEW&S as the centralized manager for the development, acquisition, testing, fielding, support and product improvement for the sensor payloads for the TUAV program"

Ken Oscar
Dated: 30 MAR 98

Sensor Integration Strategy



Objective: Sensor Development Path that Allows for the Lowest Schedule, Cost and Technical Impacts for Integration of New Sensor Capabilities onto TUAV

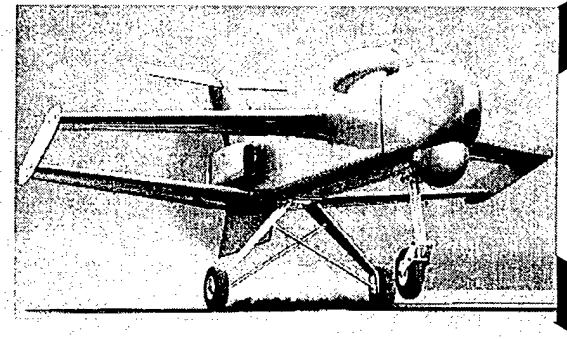
CINC/Service UAV Mission Prioritization
TUAV Payloads

Priority	Mission	Payloads	Assessment of Availability
1	Reconnaissance	EO/IR, SAR/MTI, CUERS	Near/Mid Term
2	Mine Countermeasures	IR, PMMW, FOLPEN	Far Term
3	Target Designation	Laser Target Designators	Mid Term
4	Battle Management	EO/IR, SAR/MTI	Near/Mid Term
5	Chem/Bio	Hyper-Spectral Sensors	Mid Term
6	SIGINT	SIGINT (COMINT, ELINT)	Mid Term
7	Counter Camouflage/Deception	Hyper-Spectral Sensors	Mid Term
8	Electronic Warfare	ESM/Jammer	Mid Term
9	Combat Search & Rescue	EO/IR, SAR	Near/Mid Term
10	Comm/Data Relay	Aerial Communications Relay	Near Term
11	Information Warfare	Specialized Electronic Attack	Mid Term

Source: JROC UAV Special Study Group Coordinated with Service and Operational CINC Staffs

TUAV Program Plan-Our Perspective

"Platforms Must be Sensor Friendly"



Outrider ACTD

Outcome of Military Utility Assessment

Outrider Meets Army Requirements

- **Continue With Joint Outrider Program as Long as Navy Still supports**
- **PEO-IEW&S Still Maintains TUAV Sensor Management**

Outrider Does Not Meet Army Requirements

- **Initiate a Competitive Solicitation for a TUAV System Managed by PEO-IEW&S/PM TUAV**

Even If Outrider is Successful the Navy May Still Move Out with a Different Solution

KPP's (Proposed)

- Provide All Weather, Day/Night TUAV Capability to Support Army Brigade Commander
- Take off and Landing on a Soccer Field Size, Unprepared Surface
- Deployable on 1C-130 to Support a 72 Hour Mission
- Operable and Maintainable by a Minimal Number of Army Personnel
- Provide for Payload Diversity and Facilitate Timely Interchangeablity
- Production CAIV: TBD
- LCC CAIV: TBD

Close Range TUAV Requirements Banding

Priority 1 (Basics)	Priority 2 (Preferred)	Priority 3 (Desired)
AV Range 50 km	AV Range 100 k	*Payload: Payload capable of NIIRS 7 when flying at operational altitude**- Number 2 priority payload in SAR/MTI
AV Endurance 3 hrs @ 50km	*OPTEMPO: 8 hours of operation in a 12 hour period for 96 hours	Payload Wt: not less than 80 lbs
*OPTEMPO: 6 hrs of operation in a 12 hour period for 72 hours using 6 opers. & 2 mains	*Launch & Recovery: Performed without use of an External Pilot	Component Weight: Air Vehicle Does not Require Hoist to Remove From Transport Vehicle-NTE 100lbs. Per comp.
Launch & Recovery: Unprepared surface 30m x 75m with 10 m obstacles at each end	*Payload: Primary Day/night passive imagery EO/IR-Capable of incorporating MMPs	RVT Range: 100km
Fuel: MOGAS	Component Weight: NTE the ability of 2 people to move	*Fuel: HFE
Cost: Production CAIV LCC CAIV	*Transportability: Entire system transported in 2 HMMMVW with shelters and 1 trailer	
*Transportability: 72 hrs of operation deployable in 1 C-130	TCS: TCS Compatible	
	RVT Range: 20km	
	Payload Wt: not less than 60 lbs	

* Cost Drivers

TUAV Parallel Path Ahead

Outrider ACTD

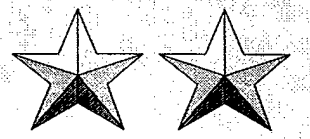
- Continue ACTD MUA
- Extend MUA to assure Adequate Data Obtained
- Evaluate Results Against Army Requirements

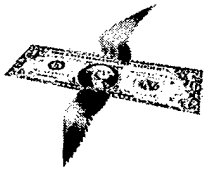
Competitive Solicitation

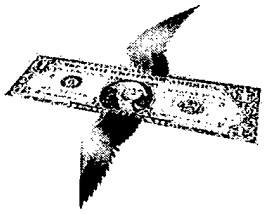
- Prepare for Competitive Solicitation in Parallel with MUA
- Conduct RFI's to Update Information from last Years Input and focus Specifically on Army Close range TUAV Requirements
- Follow-on One-on-Ones with Industry
- Be Ready to Execute

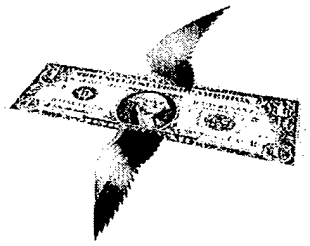
Decision Point is after Completion of MUA

IEW&S
PROGRAM EXECUTIVE OFFICE

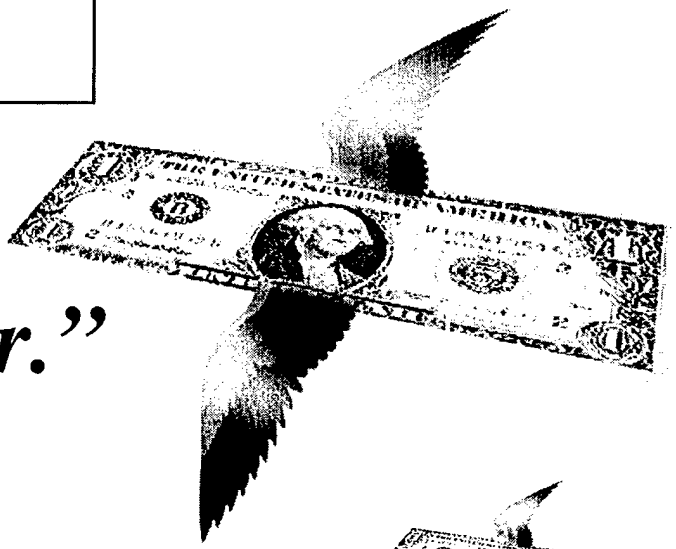




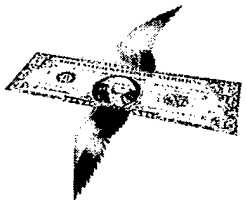


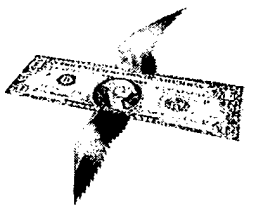


"There has to be a less expensive way for the Army to participate in logistics . . .



Business as usual after 25 years just isn't the answer."





MG David Gust, PEO IEW&S
January 1998

NOTES

Project Manager - Night Vision/Reconnaissance, Surveillance and Target Acquisition

Business Opportunities

Doug Wiltsie, HTI Branch Chief, PM NV/RSTA

UNCLASSIFIED

POINT PAPER

SFAE-IEW&S-NV 27 April, 1998

SUBJECT: Long Range Advanced Scout Surveillance System (LRAS3)

OBJECTIVE: The system will provide real-time imagery for the Scout to quickly detect, recognize, and report targets of Military interest while operating outside threat acquisition and engagement ranges.

FACTS:

- One long range advanced scout surveillance per scout High Mobility Multipurpose Wheeled Vehicle (HMMWV), scout platoon and cavalry regiment.
- Give scouts a Stand-off Range they have never had before.
- Improves Target Detection, Identification and Hand-off.
- First Recon/Surveillance System developed specifically for the Scout Mission.
- Allows Scouts to conduct reconnaissance missions while remaining outside threat acquisition and engagement ranges
- Milestones listed below reflect the planned schedule for LRAS3.
  - Engineering and Manufacturing Development (EMD) Contract Awarded to Raytheon 4QFY97
  - Development Test 1QFY99
  - Operational Test 3QFY99
  - RFP 4QFY99
  - Milestone III 1QFY00
- This will be a Firm-Fixed-Price, 5-7 Year production. Approximately 650 systems will be produced.

BRIEFER: Mr. Doug Wiltsie, Branch Chief HTI FLIR, PM NV/RSTA (703) 704-1759.

S/For/Joni Forman, DPM
Jeffrey A. Sorenson
Colonel, US Army
Project Manager
Reconnaissance, Surveillance &
Target Acquisition

POINT PAPER

SFAE-IEW&S-NV 27 April, 1998

SUBJECT: Horizontal Technology Integration 2nd Generation FLIR & Standard Advanced Dewar Assembly (SADA II).

OBJECTIVE: The Army Horizontal Technology Integration of the Second Generation FLIR (2nd Gen. HTI) will enable the Army to insert a common second generation sensor (B-Kit) into the Army's highest priority ground battlefield platforms: M1A2 SEP, M2A3 Bradley Fighting Vehicle, the Long Range Advanced Scout Surveillance System (LRAS3) and the Line of Sight Antitank (LOSAT). The B-Kit is integrated into the various platforms via a sight specific A-Kit.

FACTS:

- EMD awarded to TI and HAC in July 1994
- LRIP awarded to TI and HAC in April 1997
- Milestones:
  - RFP Release (SADA II) Aug 98
  - Contract Award (SADA II) Dec 98
  - RFP Release (HTI FLIR) Jul 99
  - Contract Award (HTI FLIR) Dec 99
  - MSIII – 2Q00
  - FUE – 3Q00
- Standard Advanced Dewar Assembly (SADA II) will be a Firm-Fixed-Price procurement. The contract is planned to run four years with a base quantity of 392 systems and three option years. HTI 2nd Generation FLIR will be a Firm-Fixed-Price five-year multi year procurement. Approximately 3,300 B-Kits and systems will be procured.

BRIEFER: Mr. Doug Wiltsie, Branch Chief HTI FLIR, PM NV/RSTA (703) 704-1759.

S/For/Joni Forman, DPM
Jeffrey A. Sorenson
Colonel, US Army
Project Manager
Reconnaissance, Surveillance &
Target Acquisition

POINT PAPER

SFAE-IEW&S-NV 27 April, 1998

SUBJECT: Aviation FLIR

OBJECTIVE: Aviation FLIR is an upgrade on the AH-64 Apache from 1st Gen FLIR technology to 2nd Gen FLIR. It improves pilotage and targeting sensors. Improves target range, FOV, and Reliability. Sensor improvement commensurate with Comanche performance.

FACTS:

- EMD currently projected to start FY02.
- BAA Traded-off studies analysis ongoing.
- Potential to be GFE to Apache PVS contract.
- Army continuing efforts to accelerate program.
- Approved I-FLIR ORD dated 9 Dec 93.
- Milestones listed below reflect the planned schedule for Aviation FLIR.
  - Draft RFP FY01
- This will be a cost plus development contract.

BRIEFER: Mr. Doug Wiltsie, Branch Chief HTI FLIR, PM NV/RSTA (703) 704-1759.

S/for/Joni Forman, DPM
Jeffrey A. Sorenson
Colonel, US Army
Project Manager
Reconnaissance, Surveillance &
Target Acquisition

AGENDA

- LRAS3
- HTI 2nd Generation FLIR
- Aviation FLIR

Long Range Advanced Scout Surveillance System (LRAS3)

Long Range Advanced Scout Surveillance System (LRAS3)



An Integrated Long Range Reconnaissance, Surveillance and Target Acquisition Sensor System for Maneuver Battalion Scouts to Use on a High Mobility Multipurpose Wheeled Vehicle (HMMWV) or Manportable Configurations

Long Range Advanced Scout Surveillance System (LRAS3) Operational Concept

The System Will Provide Real-Time Imagery for the Scout to Quickly Detect, Recognize, and Report Targets of Military Interest While Operating Outside Threat Acquisition and Engagement Ranges

Long Range Advanced Scout Surveillance System (LRAS3)
System Requirements

- Range > 2 Gen FLIR
- Mount HMMWV & Tripod
- Weight < 120 Pounds
- Far Target Location System
- Advanced FLIR w/Long Range Optics
- LRF w/ Range Comparable to FLIR
- Day Video Camera with Comparable Range
- All Weather Capable

Long Range Advanced Scout Surveillance System (LRAS3) Status

- Currently Maneuver Battalion Scouts Operate Within Threat Acquisition Engagement Ranges
- New Generation FLIRS Provide Greater Ranges

Long Range Advanced Scout Surveillance System (LRAS3) Scope of Effort

- One Long Range Advanced Scout Surveillance Per Scout High Mobility Multipurpose Wheeled Vehicle (HMMWV), Scout Platoon and Cavalry Regiment
- Give Scouts a Stand-off Range They Have Never Had Before
- Improve Target Detection, Identification and Hand-Off

Long Range Advanced Scout Surveillance System (LRAS3)
Scope of Effort (Cont.)

- First Recon/Surveillance System Developed Specifically for Scout Mission
- Allows Scouts to Conduct Reconnaissance Missions While Remaining Outside Threat Acquisition and Engagement Ranges

Long Range Advanced Scout Surveillance System (LRAS3) Milestones

- 2QFY94 — Operational Requirement Document (ORD)
- FY 96 — Head Start Effort Tradeoff Studies by Industry Input to E&MD Procurement Package
- 4QFY97 — Milestone II Decision

Long Range Advanced Scout Surveillance System (LRAS3)
Milestones (Cont.)

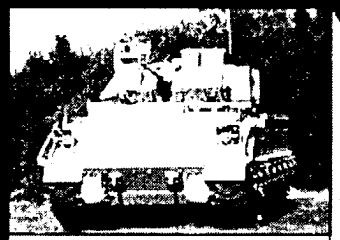
- 4QFY97 — Engineering and Manufacturing Development (EMD) Contract Awarded to Raytheon
- 1QFY99 — Development Test
- 3QFY99 — Operational Test
- 1QFY00 — Milestone III

Long Range Advanced Scout Surveillance System (LRAS3) Contract Opportunity

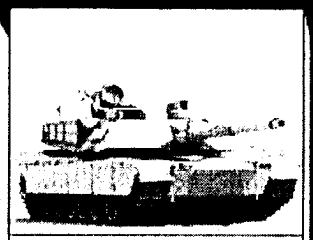
TITLE: Long Range Advanced Scout Surveillance System

OBJECTIVE:	**650 LRAS3 Systems**
CONTRACT TYPE:	**Fixed Price; 5 - 7 Years Production**
KEY MILESTONES:	**RFP 4QFY99**
ESTIMATED VALUE:	**$200M - $250M**
POC:	**MAJ Mark Conley (703) 704-1941**
CONTRACT OFCR:	**Deborah Gilligan (732) 532-3506**

HTI 2nd Generation FLIR



BRADLEY M2A3/M3A3



ABRAMS M1A2 SEP



LRAS3



LOSAT

OWN THE NIGHT

COMBAT IDENTIFICATION

BATTLEFIELD DIGITIZATION

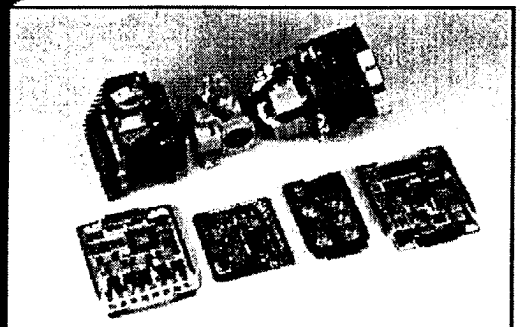
HORIZONTAL TECHNOLOGY INTEGRATION
2ND GENERATION FLIR

PM NV/RSTA

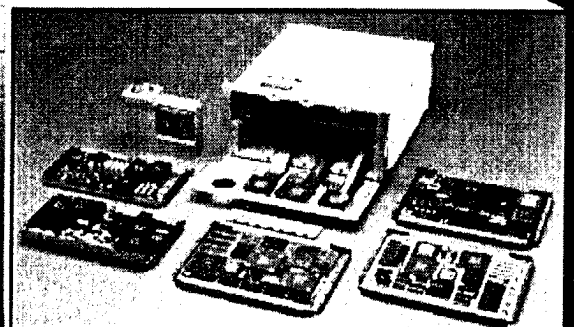
PM FLIR

GROUND B-KIT

CONQUEST OF DARKNESS

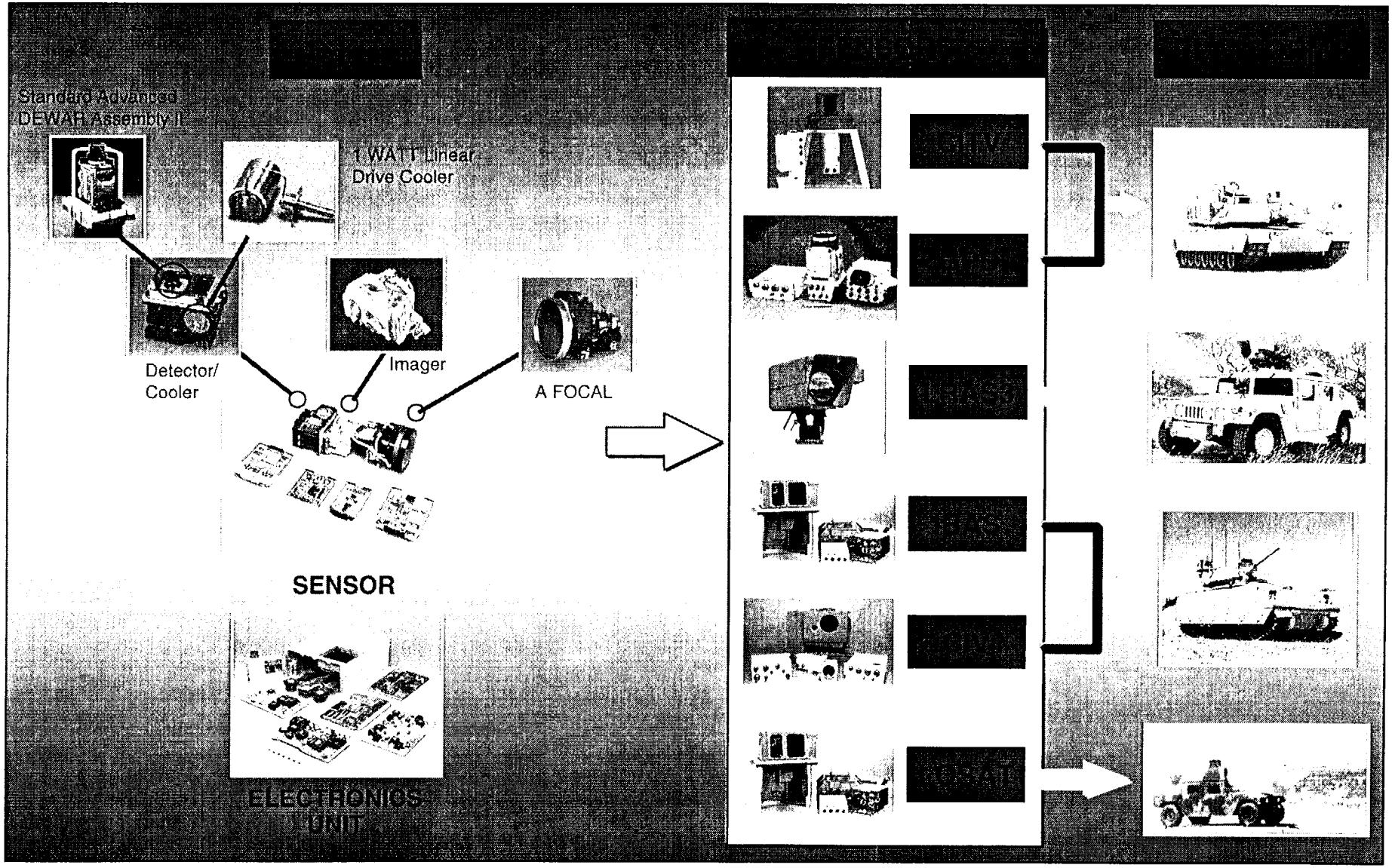


SENSOR UNIT



ELECTRONIC UNIT

Horizontal Technology Integration
2nd Generation FLIR
Ground Systems



Horizontal Technology Integration
2nd Generation FLIR
Battlefield View

[redacted]

- 1970's Technology
- Analog

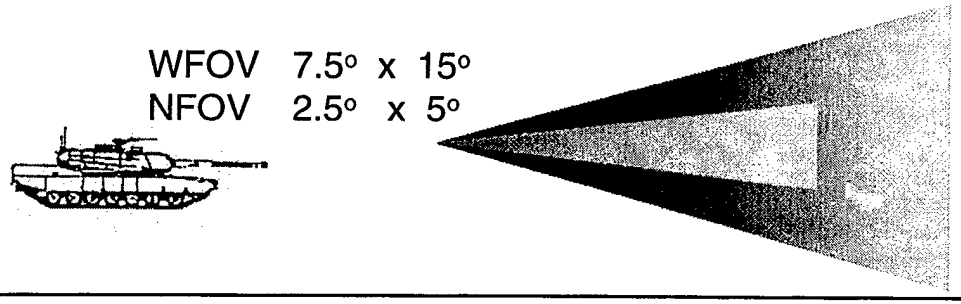
WFOV 3.4° x 6.8°
NFOV 1.1° x 2.2°



[redacted]

Target Size: 2.3 x 2.3 m
Δ T: 1.25° C P=.70
70% ATM

WFOV 7.5° x 15°
NFOV 2.5° x 5°



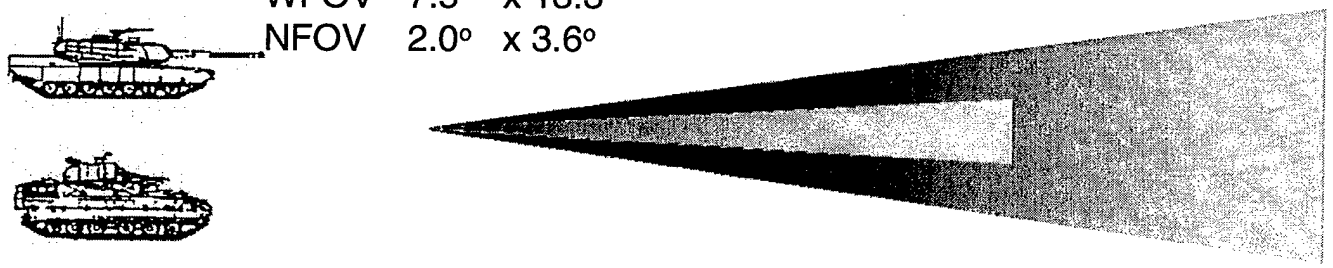
Doubles Combat Identification Ranges

44% Increase in Targets Hit

[redacted]

- 1990's Technology
- Digital

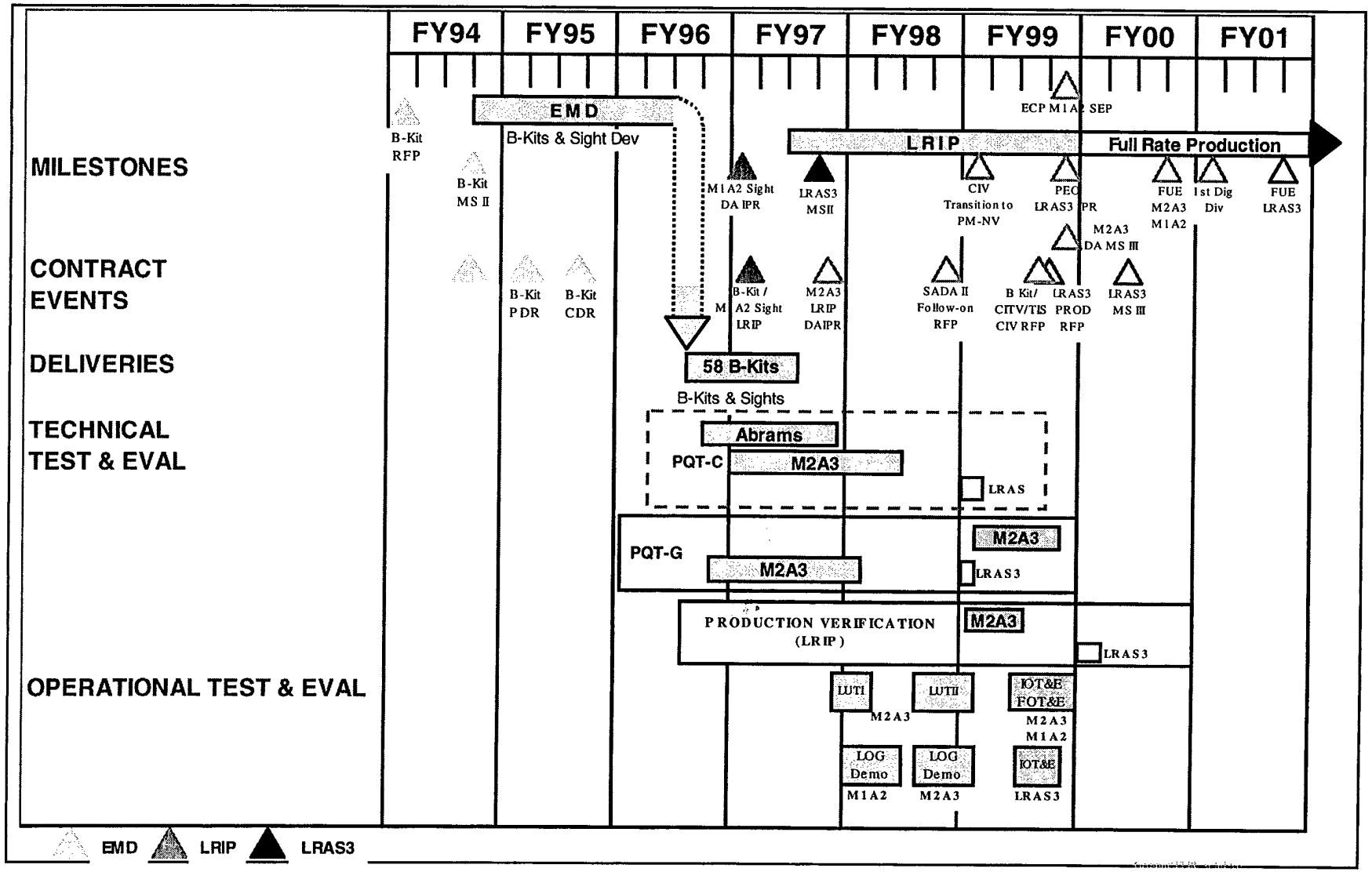
WFOV 7.5° x 13.3°
NFOV 2.0° x 3.6°



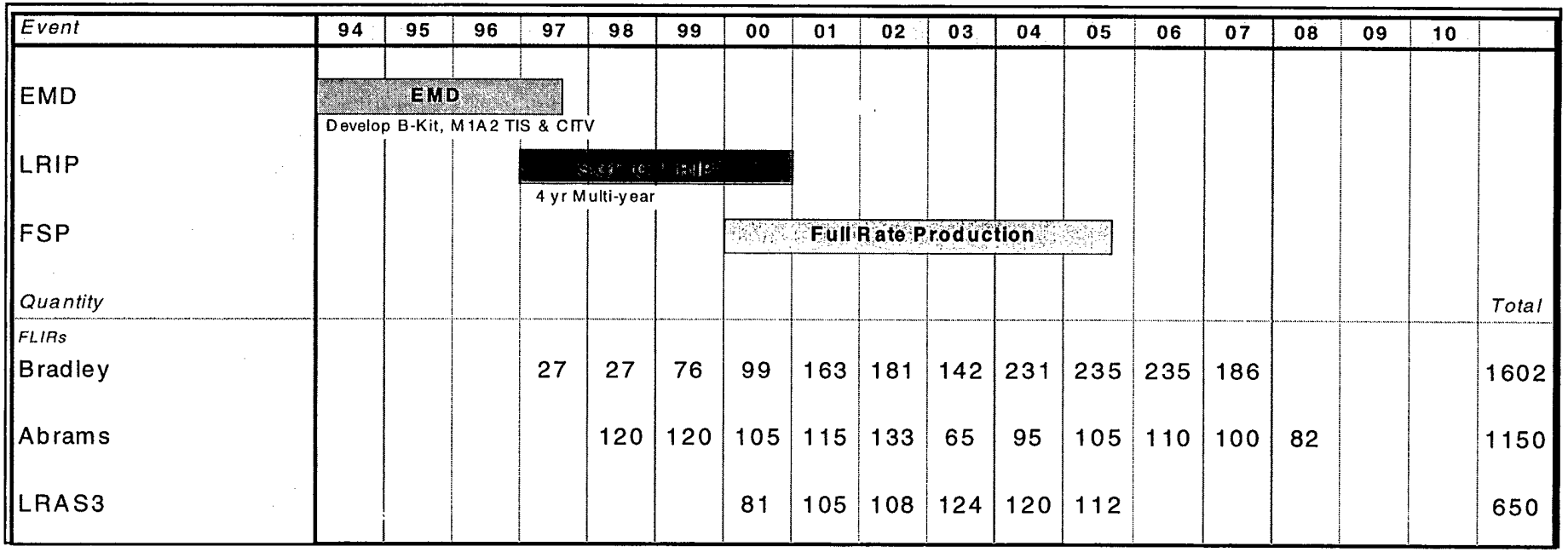
Horizontal Technology Integration
2nd Generation FLIR
Status

- Engineering & Manufacturing Development Program Scheduled for Completion 31 May 98
- LRIP Contracts Awarded Apr 97; First LRIP B-Kit Deliveries May 98
- Bradley A2 Limited User Test II 3QFY98
- Bradley/Abrams IOT&E 3QFY99
- HTI 2nd Gen FLIR Milestone III 1QFY00
- Abrams First Unit Equipped May 00
- Bradley First Unit Equipped Sep 00

Horizontal Technology Integration
2nd Generation FLIR Program
Schedule

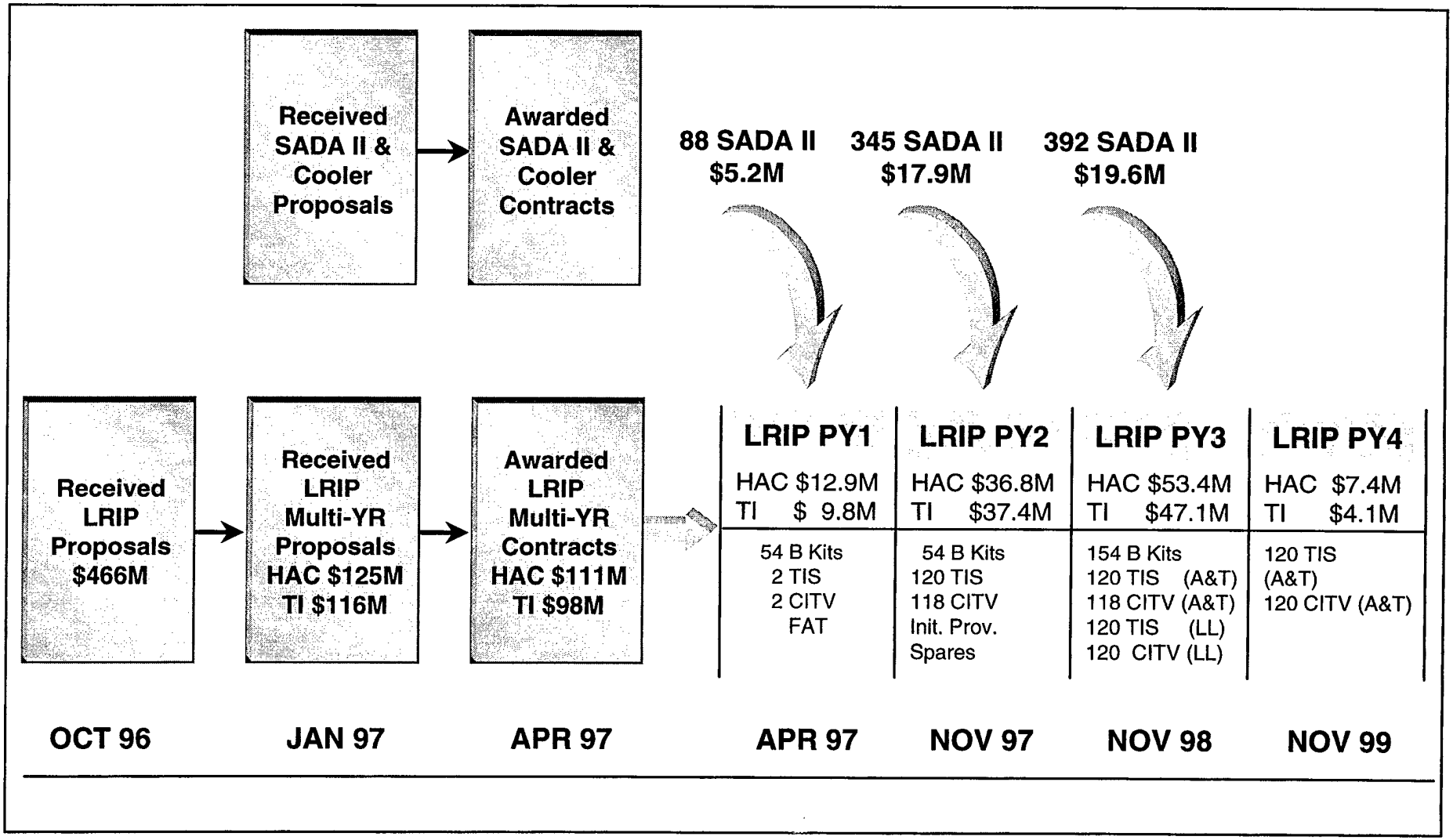


Horizontal Technology Integration
2nd Generation FLIR Program
Production Requirements



As of 24 March 1998

Horizontal Technology Integration
2nd Generation FLIR
LRIP Program Contract Structure



Horizontal Technology Integration
2nd Generation FLIR
Contract Opportunity

Title: Standard Advanced Dewar Assembly (SADA) II

Objective:	**Base Qty = 392, Three Option Years**
Contract Type:	**Firm Fixed Price**
Key Milestones:	**RFP Release - Aug 98** **Contract Award - Dec 98**
Estimated Value:	**$60 - $80M Including Options**
Technical POC:	**John Spadafore (703) 704-3456**
Acquisition POC:	**Deborah Gilligan (732) 532-3506**

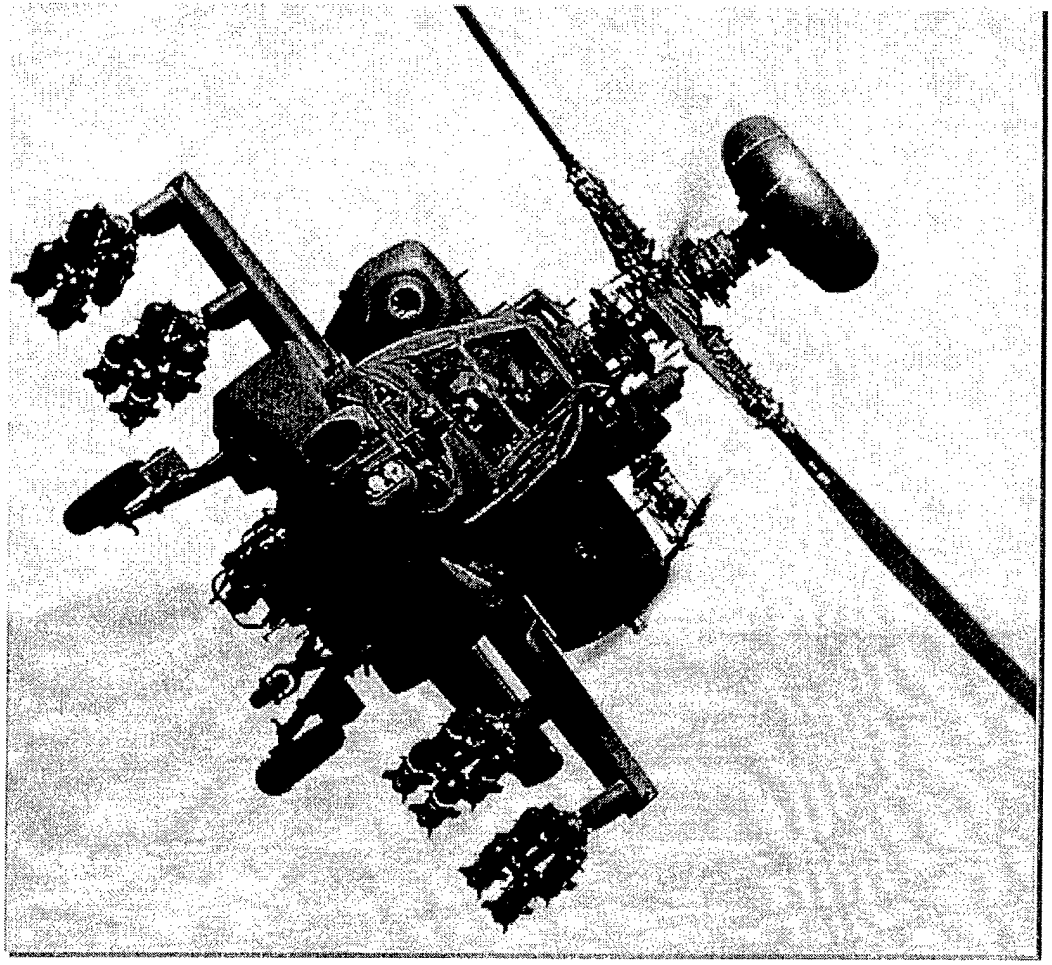
Horizontal Technology Integration
2nd Generation FLIR
Contract Opportunity

TITLE: HTI 2nd Generation FLIR

OBJECTIVE:	**Approx. 3,300 B-Kits and Systems**
CONTRACT TYPE:	**Firm Fixed Price; Five-Year Multi Year**
KEY MILESTONES:	**RFP Release Jul 99 Contract Award Dec 99**
ESTIMATED VALUE:	**$800M - $1B**
TECHNICAL POC:	**John Spadafore (703) 704-3456**
ACQUISITION POC:	**Deborah Gilligan (732) 532-3506**

Aviation FLIR

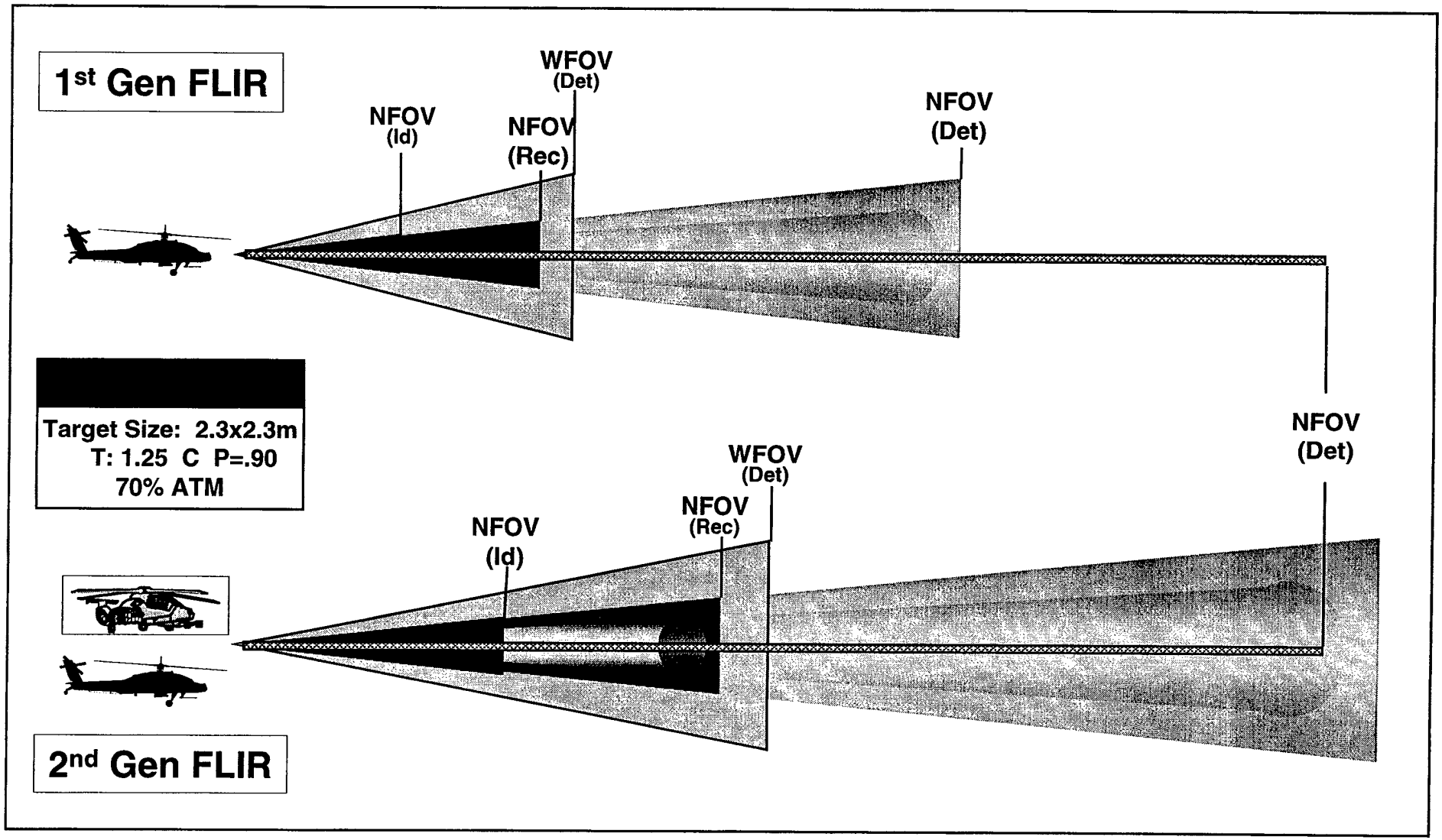
Aviation FLIR



Aviation FLIR

Aviation FLIR Is an Upgrade on the AH-64 Apache From 1st Gen FLIR Technology to 2nd Gen FLIR. It Improves Pilotage and Targeting Sensors. Improves Target Range, FOV, and Reliability. Sensor Improvement Commensurate With Comanche Performance.

Aviation FLIR
Battlefield View



Aviation FLIR
Program Status

- EMD Effort Currently Projected to Start FY02
- BAA Trade-off Studies Analysis Ongoing
- Potential to Be GFE to Apache PVS Contract
- Army Continuing Efforts to Accelerate Program
- Approved I-FLIR ORD Dated 9 Dec 93

Aviation FLIR
Contract Opportunity

TITLE: Apache FLIR Upgrade

OBJECTIVE:	3 Year EMD
CONTRACT TYPE:	Cost Plus
KEY MILESTONES:	Draft RFP FY01
ESTIMATED VALUE:	$110M - $130M
POC:	LTC Nate Eberle (703) 704-1029
CONTRACT OFCR:	Deborah Gilligan (732) 532-3506

Aviation FLIR
Contract Opportunity

TITLE: Apache FLIR Upgrade

OBJECTIVE:	**3 Year EMD**
CONTRACT TYPE:	**Cost Plus**
KEY MILESTONES:	**Draft RFP FY01**
ESTIMATED VALUE:	**$110M - $130M**
POC:	**LTC Nate Eberle (703) 704-1029**
CONTRACT OFCR:	**Deborah Gilligan (732) 532-3506**

NOTES

Project Manager - Night Vision/Reconnaissance, Surveillance and Target Acquisition Business Opportunities

MAJ Ed Wood, Sensor Systems Branch, PM-NV/RSTA

UNCLASSIFIED

POINT PAPER

SFAE-IEW&S-NV 27 April, 1998

SUBJECT: Horizontal Technology Integration of Tactical Laser Systems

OBJECTIVE: An HTI Program that leverages new laser technology and provides performance improvements while saving development time and total life cycle costs.

FACTS:

- Three Platforms have been identified for acquisition of the HTI Tactical laser:
  - OH58D (Kiowa Warrior)
  - FSCS (Future Scout Cavalry System)
  - AH64D (Longbow Apache)

- Army systems currently use Tactical Lasers for:
  - Range Finding
  - Target Designation
  - Training
  - Target Pointing and Illumination

- The Army leadership supports the concept of an HTI Tactical Laser – PM Night Vision/RSTA was approved as The Army Center of Excellence (ACE) for Tactical Low Energy Lasers in February 1998.

- Milestones:
  - Conduct AH64D Demo with the HTI Tactical Laser 1QFY00
  - EMD Contract Award 2QFY00

- This will be a cost plus development contract with a low rate initial production option. It is planned to run for approximately three years.

BRIEFER: MAJOR Kel Wood, Assistant Product Manager Sensor Systems, PM NV/RSTA (703) 704-3470.

S/For/Joni Forman, DPM
Jeffrey A. Sorenson
Colonel, US Army
Project Manager
Reconnaissance, Surveillance &
Target Acquisition

POINT PAPER

SFAE-IEW&S-NV

27 April, 1998

SUBJECT: Profiler

OBJECTIVE: Profiler is a modification to the AN/TMQ-41 Meteorological Measuring Set (MMS) consisting of a suite of meteorological sensors and software/models that will provide the field artillery with current or expected weather conditions out to a range of 500 kms. It will eliminate the "Balloon from the Battlefield". Models include computer Assisted Artillery Meteorology (CAAM) and Battlescale Forecast Model (BFM) and a meteorological Satellite Receiver.

FACTS:

- EMD program planned to start in FY00.
- BAA trade-off studies ongoing.
- Computer assisted artillery Meteorology Model being fielded as upgrade to AN/TMQ-41.
- Battlescale Forecast Model is in advanced development.
- Proof of concept prototype developed by Army Research Laboratory.
- Milestones:
  - Release Draft RFP 3QFY99
  - EMD Contract Award 2QFY00
- This will be a cost plus development contract. It is planned to run for approximately three years.

BRIEFER: MAJOR Kel Wood, Assistant Product Manager Sensor Systems, PM NV/RSTA (703) 704-3470.

S/For/Joni Forman, DPM
Jeffrey A. Sorenson
Colonel, US Army
Project Manager
Reconnaissance, Surveillance &
Target Acquisition

POINT PAPER

SFAE-IEW&S-NV

27 April, 1998

SUBJECT: Lightweight Video Reconnaissance System (LVRS)

OBJECTIVE: The outstation is a small ruggedized processor and video camcorder with night vision capability unit that gives the scout ability to conduct reconnaissance, Battle Damage Assessment (BDA), save, send and receive images. It is lightweight and does not degrade the scout's mobility.

FACTS:

- Currently in production.
- First unit equipped: 75th Ranger Regiment.
- Congressional Plus-up - $2M in FY98.
- Milestones:
  - RFP Issued 1QFY00
  - Contract Award 2QFY00
- This will be a Firm-Fixed-Price production, consisting of a Base Year and three option years. Approximately 80 Base station and 200 Out stations will be produced.

BRIEFER: MAJOR Kel Wood, Assistant Product Manager, Sensor Systems, PM NV/RSTA (703) 704-3470.

S/For/Joni Forman, DPM
Jeffrey A. Sorenson
Colonel, US Army
Project Manager
Reconnaissance, Surveillance &
Target Acquisition

POINT PAPER

SFAE-IEW&S-NV

27 April, 1998

SUBJECT: Lightweight Laser Designator Rangefinder (LLDR)

OBJECTIVE: LLDR provides the Army Light Forces Forward Observers (FOs), Bradley Fire Integration Support Teams (BFIST), and USMC Forward Observers/Forward Area Controllers (FO/FACs) with an all weather, day/night target observation, location and designation system.

FACTS:

- Engineering Manufacturing Development (EMD) contract signed with Litton Laser Systems on 31 Jul 97
- Warfighter Rapid Acquisition Program (WRAP) approval received 28 Jul 97
- Deliveries include 10 EMD and 20 WRAP units
- Preliminary Design Review completed on 16 Jan 98
- Milestones:
  - Milestone III 1QFY00
  - Production Decision 1QFY00
  - FUE 3QFY01
- This will be a Firm-Fixed-Price/Multi-Year procurement. The contract is planned to run four years and produce between 175 – 400 systems.

BRIEFER: MAJOR Kel Wood, Assistant Product Manager, Sensor Systems, PM NV/RSTA (703) 704-3470.

S/For/Joni Forman, DPM
Jeffrey A. Sorenson
Colonel, US Army
Project Manager
Reconnaissance, Surveillance &
Target Acquisition

AGENDA

- HTI Tactical Laser
- Profiler
- LVRS
- LLDR

Horizontal Technology Integration of Tactical Laser Systems

Horizontal Technology Integration of Tactical Laser Systems

- An HTI Program That Leverages New Laser Technology and Provides Performance Improvements While Saving Development Time and Total Life Cycle Costs; Accomplished by Designing Tactical Lasers in a Modular Fashion With Common Reconfigurable Modules Using an Open Architecture Approach
- To Date, Three Platforms Have Been Identified for Acquisition of the HTI Tactical Laser:
  - AH64D (Longbow Apache)
  - OH58D (Kiowa Warrior)
  - FSCS (Future Scout Cavalry System)

Horizontal Technology Integration of Tactical Laser Systems
HTI Laser System Description

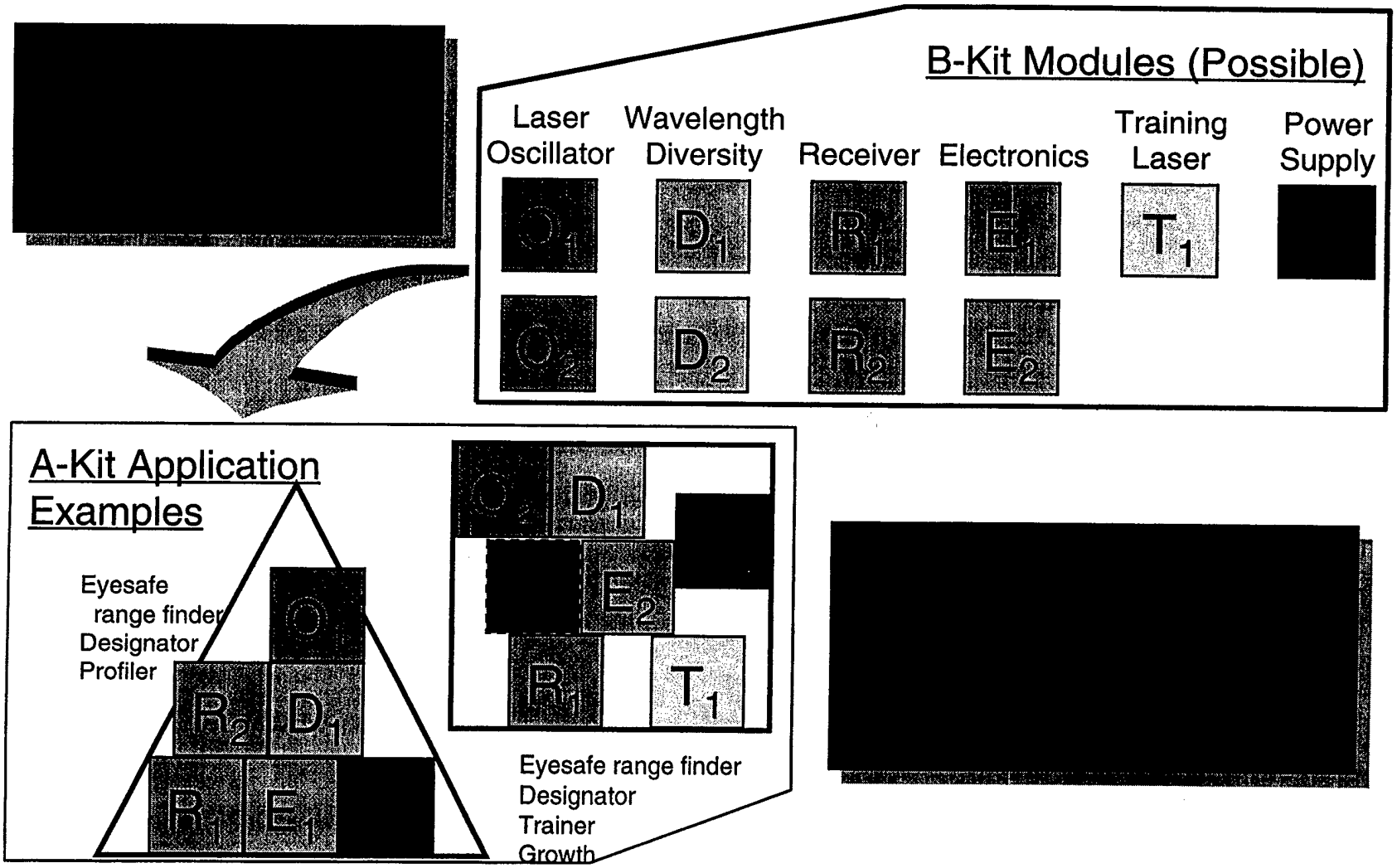
Army Systems Currently Use Tactical Lasers For:

- Range Finding
- Target Designation
- Training
- Target Pointing and Illumination

Horizontal Technology Integration of Tactical Laser Systems
HTI Laser System Description (Cont.)

- **Subsequent Capabilities to Be Considered Include:**
  - **Combat and Target Identification**
  - **Threat Missile Countermeasures**
  - **Weapon Guidance**
  - **Optical/Electro-Optical Detection**
  - **Obstacle Detection and Avoidance**
  - **Counter Sensor and Counter Sniper**
  - **Secure Communications**
  - **Meteorological**
  - **Chemical and Biological Agent Detection**

Horizontal Technology Integration of Tactical Laser Systems



Horizontal Technology Integration of Tactical Laser Systems Program Status

- Contractor Trade Studies (1997) From Three Different Contractors Support the HTI Tactical Laser Concept

- The Army Leadership Supports the Concept of an HTI Tactical Laser - Approved Army Center of Excellence (ACE) for Tactical Low Energy Lasers in Feb 98

Horizontal Technology Integration of Tactical Laser Systems Milestones

- 2QFY98 Approval as an HTI Program
- 2QFY98 Charter Approved for Establishment of Army Center of Excellence for Tactical Low Energy Lasers
- 1QFY00 Conduct AH64D Demo With the HTI Tactical Laser

Horizontal Technology Integration of Tactical Laser Systems Milestones (Cont.)

- 2QFY00 Milestone I/II Decision to Enter EMD
- 2QFY00 EMD Contract Award
- 2QFY03 Milestone III Decision to Support Full Rate Production. (1,800 systems)

Horizontal Technology Integration of Tactical Laser Systems Program Requirements

- **EMD Program Will Develop Modules and Systems for FSCS, AH64D and OH58D That Meet Existing Interface Requirements to Include Volume, Weight and Power, and the Following Performance Requirements**
  - **Eyesafe Range Finding — 10 Kms**
  - **Target Designation — 8 Kms**
  - **Engagement Training — 6 Kms**

Horizontal Technology Integration of Tactical Laser Systems Program Requirements (Cont.)

- All Qualification Testing Will Be Included
- A Formal Definition of the Architecture and Performance Specs for All Common Modules Will Be Developed
- Future Abrams and Bradley Upgrades Will Be Monitored for Possible Insertion of the HTI Tactical Laser and May Be Included As Virtual Design Work Under EMD

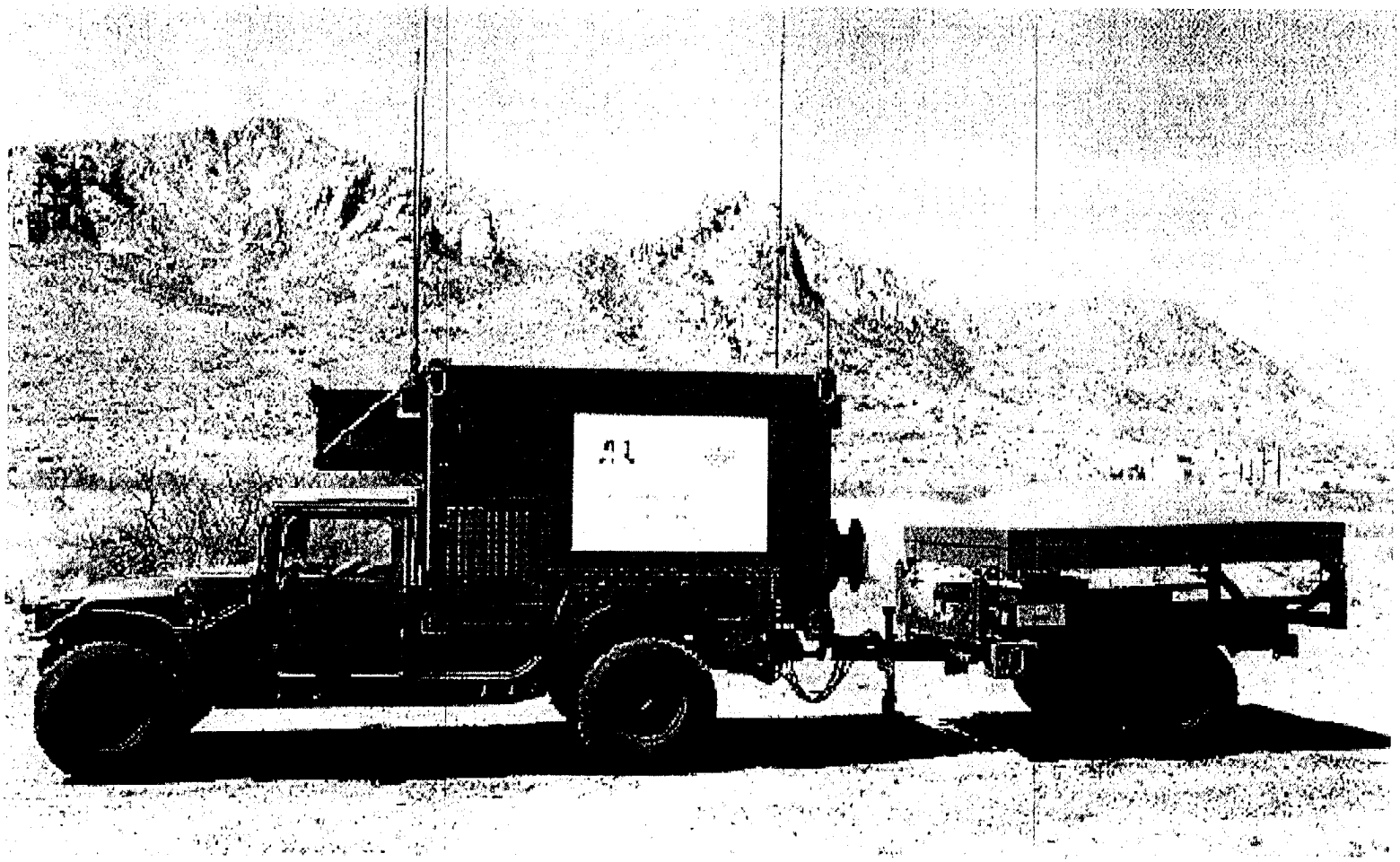
Horizontal Technology Integration of Tactical Laser Systems Contract Opportunity

TITLE: Horizontal Technology Integration of Tactical Laser

OBJECTIVE:	**EMD + LRIP Option**
CONTRACT TYPE:	**Cost Plus**
KEY MILESTONES:	**2QFY00 EMD Contract Award**
ESTIMATED VALUE:	**$41M - $53M**
POC:	**William Smith (703) 704-3478**
CONTRACT OFCR:	**Estelle Klose**

Profiler

Profiler



Profiler

Profiler is a Modification to the AN/TMQ-41 Meteorological Measuring Set (MMS) Consisting of a Suite of Met Sensors and Software/Models that will Provide the Field Artillery with Current or Expected Weather Conditions Out to A Range Of 500 Kms. It will Eliminate the "Balloon from the Battlefield". Models Include Computer Assisted Artillery Meteorology (CAAM) and Battlescale Forecast Model (BFM) and a Meteorological Satellite Receiver.

Profiler
Program Status

- BAA Trade-off Studies Ongoing
- Computer Assisted Artillery Meteorology Model Being Fielded as Upgrade to AN/TMQ-41
- Battlescale Forecast Model is in Advanced Development
- Satellite Capability Undetermined
- Proof of Concept Prototype Developed by Army Research Laboratory
- EMD Program to Start in FY00

Profiler
System Requirements

- The Contractor Shall Develop And/or Integrate a Meteorological Sensor Suite Which Shall Include Weather Forecasting Software, Meteorological Satellite Data Receiver, Surface Sensor, Radiometer, and Wind Radar.
  - Government Furnished Weather Forecasting Software Will Be Made Available to the Contractor If Desired.
- The Contractor Shall Develop Connectivity Between the Profiler Sensor Suite and the Currently Fielded AN-TMQ41 Meteorological Measuring Set."

Profiler
System Requirements (Cont.)

- Use Army Battle Command System Common Hardware
- Interface With AFATDS/compatible with JTA-A, IMETS
- Provide Target Area Met Out to 500 Km via Battlescale Forecast Model
- Provide Improved Met Data/Messages Every 30 Minutes
- Eliminate Balloon, Reduce Crew Personnel

Profiler
Contract Opportunity

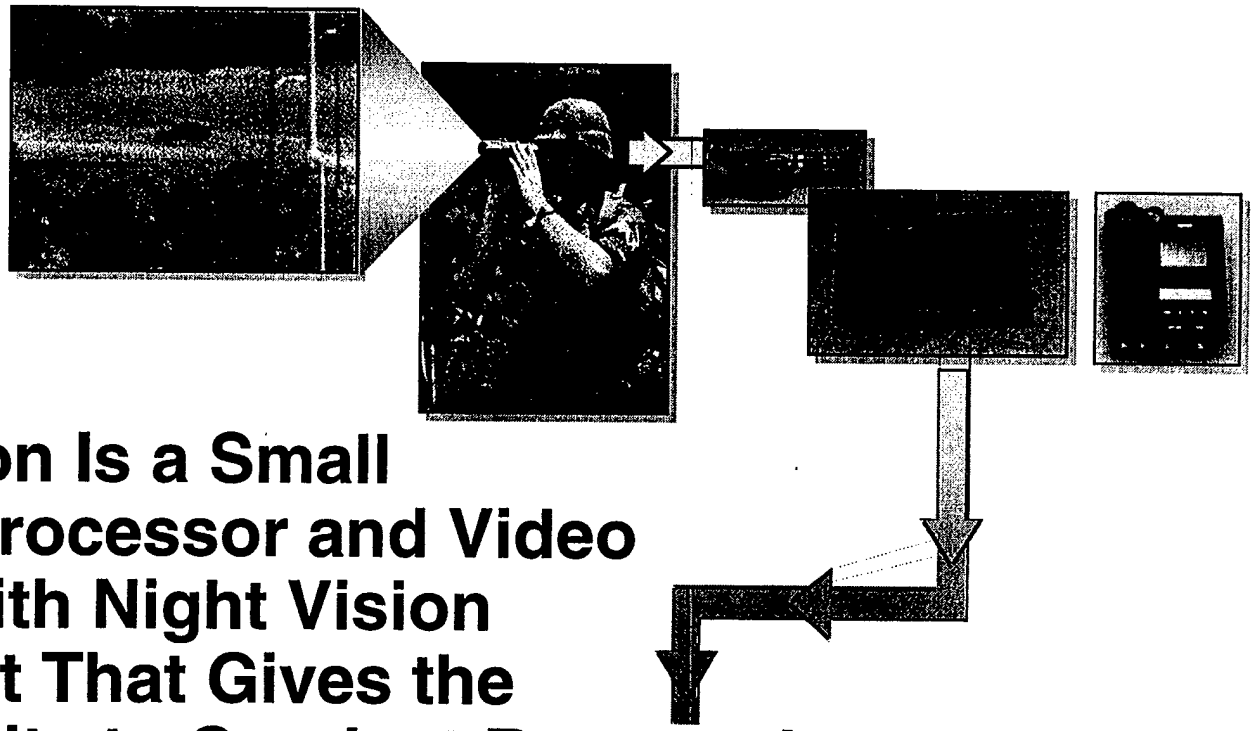
- **TITLE:** Profiler
- **OBJECTIVE:** EMD
- **CONTRACT TYPE:** Cost Plus
- **KEY MILESTONES:** 3QFY99 Release Draft RFP
  2QFY00 EMD Contract Award
- **ESTIMATED VALUE:** $10M - $12M
- **PROJECT LEADER:** MAJ Kel Wood (703) 704-3470
- **CONTRACT OFCR:** Estelle Klose

Lightweight Video Reconnaissance System (LVRS)

Lightweight Video Reconnaissance System (LVRS)

The Lightweight Video Reconnaissance System (LVRS), AN/PVH-1 & 2 Consists of a Man-portable Out Station and a Transportable Base Station. Imagery Is Captured by the Out Station, Compressed and Transmitted to the Base Station Over Existing Tactical Communication Channels.

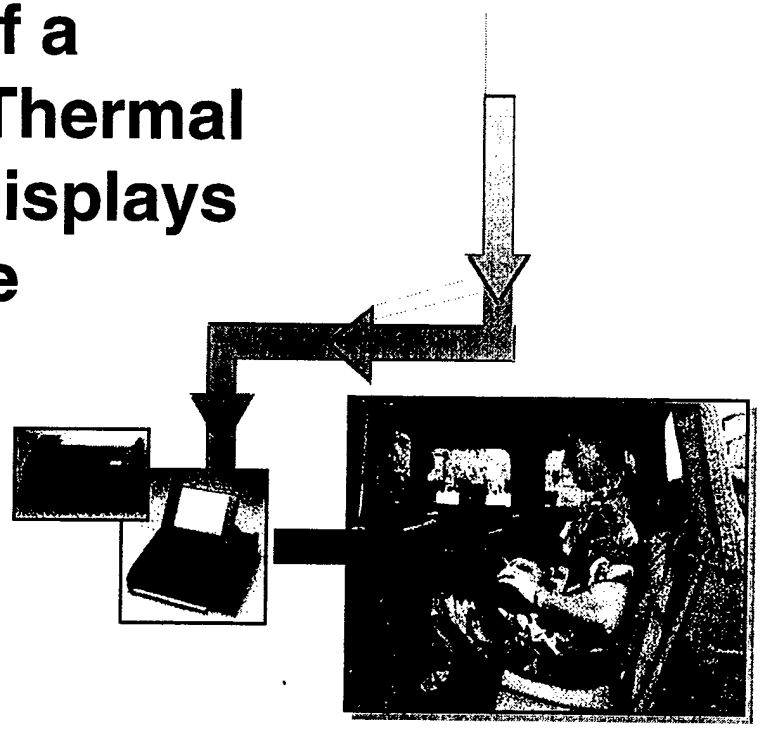
Lightweight Video Reconnaissance System (LVRS)
System Description



The Out Station Is a Small Ruggedized Processor and Video Camcorder With Night Vision Capability Unit That Gives the Scout the Ability to Conduct Reconnaissance, Battle Damage Assessment (BDA), Save, Send and Receive Images. It Is Lightweight and Does Not Degrade the Scout's Mobility.

Lightweight Video Reconnaissance System (LVRS)
System Description (Cont.)

The Base Station Consists of a Ruggedized Processor and Thermal Printer which receives and displays imagery transmitted from the Out Stations. The system operator has the ability to print imagery, and transmit imagery to other Base Stations and battlefield information systems.



Lightweight Video Reconnaissance System (LVRS) Milestones

- 2QFY94 — Simplified Operational Requirement Document (SORD)
- 4QFY95 — Contract Award
- 4QFY97 — Type Classified: Standard
- 3QFY98 — Proposed Material Release

Lightweight Video Reconnaissance System (LVRS) Status

- Currently in Production
- First Unit Equipped: 75th Ranger Regiment
- Congressional Plus-up - $2M in FY98

Lightweight Video Reconnaissance System (LVRS) System Requirements

- **Target Acquisition:** Day: 1500 meters
Night: 500 meters
- **Out Station Weight:** 16 pounds
(currently 8.8 pounds w/batteries)
- **Single Frame Transmission <40 seconds**
- **Ruggedization:** Limited Environmental

Lightweight Video Reconnaissance System (LVRS) Contract Opportunity

TITLE: Lightweight Video Reconnaissance System

OBJECTIVE:	**Production:** 80 Base Stations 200 Out Stations
CONTRACT TYPE:	Fixed Price: Base Year + 3 Option Years
KEY MILESTONES:	RFP Issued: 1QFY00
	Contract Award: 2QFY00
ESTIMATED VALUE:	$5M - $10M
POC:	Jaime Gonzalez (703) 704-3212
CONTRACT OFCR:	Jack Kulaga (732) 427-1356

Lightweight Laser Designator Rangefinder (LLDR)

Lightweight Laser Designator Rangefinder (LLDR)

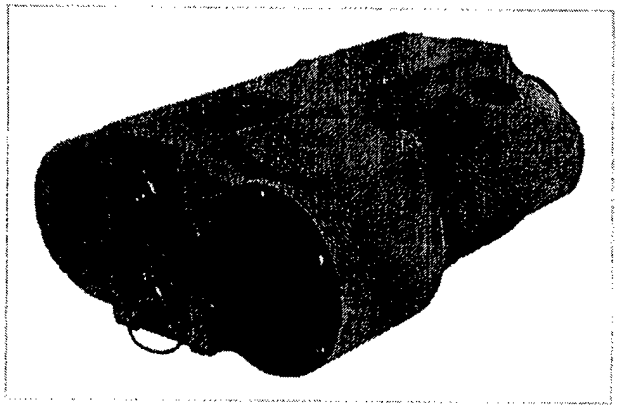


Lightweight Laser Designator Rangefinder (LLDR)

LLDR Provides the Army Light Forces Forward Observers (FOs), Bradley Fire Integration Support Teams (BFIST), and USMC Forward Observers/Forward Area Controllers (FO/FACs) With An All Weather, Day/Night Target Observation, Location, and Designation System

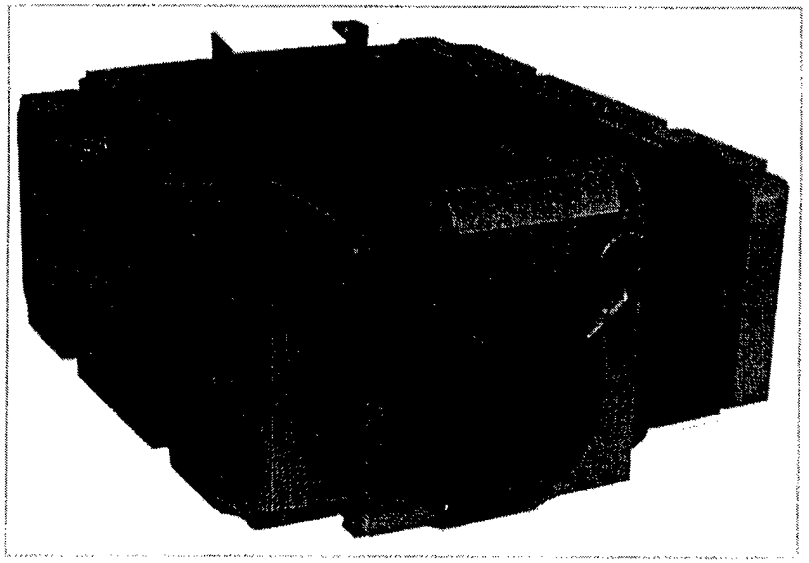
Lightweight Laser Designator Rangefinder (LLDR) System Components

- Target Locator Module (TLM)
  - Day Sight; Night Sight
  - Image / Data Display
  - Eyesafe Laser Rangefinder
  - Azimuth / Vertical Angle Measurement
  - Imagery / Digital Data Port
  - Global Positioning System



Lightweight Laser Designator Rangefinder (LLDR) System Components (Cont.)

- Laser Designation Module (LDM)
  - Designation Laser
  - Optics
  - Cooling System
- Interface Cable
- Tripod
- Battery



Lightweight Laser Designator Rangefinder (LLDR) Status

- Engineering Manufacturing & Development (EMD) Contract signed with Litton Laser Systems on 31 Jul 97
- Warfighter Rapid Acquisition Program (WRAP) Approval Received 28 Jul 97
- Deliveries include 10 EMD and 20 WRAP Units
- Preliminary Design Review completed on 16 Jan 98

Lightweight Laser Designator Rangefinder (LLDR)
Milestones

- Critical Design Review Jun 98
- Independent Operational Test & Evaluation Jun - Sep 99
- Milestone III 1QFY00
- FUE 3QFY01

Lightweight Laser Designator Rangefinder (LLDR) Program Requirements

- Manportable; Not To Exceed 35 lbs
- Range (Vehicle Recognition)
  - ... 7,000 M Day
  - ... 2,500 M Night
- 80 M Circular Error Probability (CEP) at 10 Km
- Eyesafe Laser Rangefinder (100-20,000 meters)
- Data and Image Export

Lightweight Laser Designator Rangefinder (LLDR)
Program Requirements (Cont.)

- Band I, II and A-code Designator Compatible
- Designation Ranges
  - ... $\geq$ 5 km (stationary target)
  - ... $\geq$ 3 km (moving target)
- Stabilized Tripod Tracking Head

Lightweight Laser Designator Rangefinder (LLDR) Competition

- The Government's Intent Is to Award the Production Contract to the EMD Winner (Litton Laser) Providing the Average Unit Production Price (AUPP) Target, and Key Performance Parameters Are Met
- AUPP Target $142K in Quantity of 400 in FY00 Dollars
- If Targets Are Not Met, the Government Will Open the Competition
- Should Another Source Be Identified That Possess Working Hardware Which Meets the LLDR Performance Requirements and AUPP Target, Competition Will Be Full and Open
- Any Sole Source Approach Would Have to Be Supported by All Relevant Regulations and Statutes in Effect at the Time of the Production Award

Lightweight Laser Designator Rangefinder (LLDR) Contract Opportunity

TITLE: Lightweight Laser Designator Rangefinder (LLDR), AN/PED-1

OBJECTIVE:	175 - 400 Systems FY00 - FY03
CONTRACT TYPE:	Fixed Price / Multi-year
AUPP TARGET:	$142K in Qty 400 in FY00 $$
KEY MILESTONES:	Production Decision 1QFY00
MILESTONE III:	1QFY00
ESTIMATED VALUE:	$40M - $70M
PROJECT LEADER:	William T. Thodos (703) 704-1202
CONTRACT OFCR:	Jack Kulaga (732) 427-1356

NOTES

SESSION VI

PEO C3S Overview



Robert R. Lehnes

Deputy Program Executive Officer
Command, Control and Communications Systems

UNCLASSIFIED

SFAE-C3S-INT 1 May 1998

POINT PAPER

SUBJECT: All Source Analysis System (ASAS) Block III

OBJECTIVE: ASAS is a tactically deployable system which receives and correlates data from national, theater, joint and tactical intelligence sensors and sources; produces ground battle situation displays; rapidly disseminates intelligence information; provides target nominations; helps to manage organic Intelligence Electronic Warfare (IEW) assets; and assists in providing OPSEC support. The ASAS is located in the Military Intelligence elements which support the Intelligence Officers (J-2, G-2, S-2) at EAC, Corps, Division, Separate Brigade and Armored Cavalry Revement and maneuver brigades and battalions. The ASAS provides the Army with a seamless intelligence fusion architecture from EAC down to Battalion S2 workstations. As the IEW subsystem of the Army Battle Command System (ABCS), ASAS provides all source intelligence fusion which allows commanders and their staffs to gain a timely and comprehensive understanding of enemy deployments, capabilities, and potential courses of action.

FACTS:

- The ASAS Block III delivers the Objective Analysis and Control Element (ACE).

- ASAS Block III significantly enhances both the intelligence fusion capabilities and the ABCS digitized force interoperability of the fielded Block II systems and is primarily a software enhancement effort. Major functionality development areas are: IMINT, CI/HUMINT, OPSEC, EW/ECM, upgrade of automated intelligence correlation and fusion, integrated collection management, and virtual TOC, Jump/Split Base capability

- ASAS Block III does not have a hardware contract effort per se but is primarily the assembly and integration of NDI and GFE, the majority of which are common hardware products, along with supporting efforts required to field the force. Workstations and communications upgrades will be performed to maintain consistency with emerging technology.

- The Army will award one competitive incremental delivery contract. The contractor will build upon the Block II system with three incremental drops/deliveries of enhancement approximately annually.

  RFP Release: 2QFY99
  Award: 4QFY00

- The contract will be a cost plus level of effort or cost plus incentive fee contract and will be awarded through a best value evaluation process. Expected contract duration is 60 months.

SFAE-CSA-MSA 13 April 98

POINT PAPER

SUBJECT: Single Channel Anti-jam Manportable (SCAMP) Block II Terminal

Objective: The Block II SCAMP is the lightweight Milstar manportable single channel satellite terminal. It will provide the Army and Special Operations Forces worldwide secure voice and data communications capability with low probability of detection/interception. It will also operate with the Advanced EHF Satellite System.

FACTS:

- The Block II SCAMP is the objective manportable Milstar terminal
- Engineering Feasibility Efforts to prove the feasibility of a lightweight (12-15 lb.) manportable Milstar terminal will conclude in 2-4QFY00 with prototype demonstrations with Lincoln Laboratory. The demonstrations will support a Milestone II decision in 1QFY01.
- The Army will award up to two competitive Spiral Development contracts. The contractors will each develop, manufacture and test 20 EMD/LRIP SCAMP Block II terminals. The schedule is as follows:

  RFP Release: 4QFY00
  Award: 2QFY01

- The contracts will be cost plus type contracts and will be awarded through a best value evaluation process. Expected contract duration is approximately 30 months.

BRIEFER:

SFAE-C3S- STR-STA 7 April 98

Point Paper

SUBJECT: Global Command and Control System – Army (GCCS-A)

OBJECTIVE: GCCS-A is the Army complement to the Joint Global Command and Control System, focusing at the Army specific applications dealing with strategic and theater levels of command. The system is structured to meet the combined requirements of the Army Battle Command System and the GCCS.

GCCS-A systems development and integration is targeted toward implementing the Joint Technical Architecture (JTA) and the Defense Information Infrastructure Common Operating Environment (DII COE).

FACTS:

GCCS-A is a single, seamless command and control system, and will be built around the JTA and the DII COE. It requires interoperability with the GCCS. It will be designed to ensure software and technology reuse and to eliminate or reduce duplication among other Command and Control Systems.

GCCS-A will be developed incrementally. The length of time between software deliveries will be based on the functionality incorporated into each specific delivery, the length of delivery period, and the resources applied to the effort. Each development cycle will be based on an evolutionary prototyping approach.

Milestones listed below reflect the planned schedule for the GCCS-A.

Draft RFP Release	2nd Qtr 99
RFP Release	3rd Qtr 99
Contract Award	2nd Qtr 00

This will be a Cost Plus Award Fee based procurement. Award will be based on Best Value provided to the Government to a single contractor. The contract period will be the base period plus 4 option years.

BRIEFER: MAJ Catherine McNerney, Technical Management Director, PMO STCCS, (703) 806-6495.

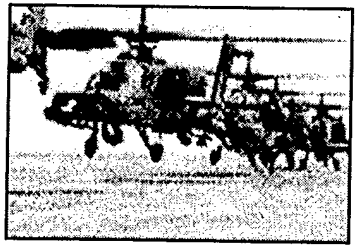
Product Manager
LTC Charles McMaster
Global Command and Control System - Army
(703) 806-6409

Outline

- First Digitized Division (FDD)
- Integrated Data Environment (IDE)
- Contract Opportunities
  - All Source Analysis System (ASAS) Block III
  - Global Command and Control System - Army (GCCS-A)
  - Single Channel Anti-jam Manportable Terminal (SCAMP) Block II

First Digitized Division (FDD)

A Process to Revolutionize Land Combat



Just Cause



Desert Storm



Provide Comfort

Digitized AWE
NTC 94-07

Able Sentry

Restore Hope

TMD 95 &
Strong Safety

Focused Dispatch AWE

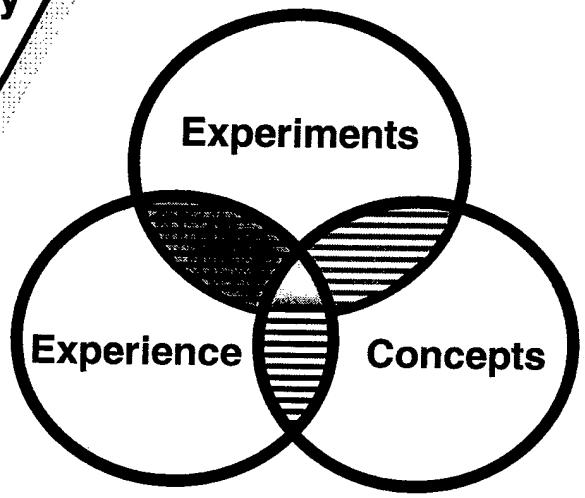
Mobile Strike Force

Warrior Focus
JRTC 96-02

Restore Democracy

Atlantic Resolve 94

Force XXI Operations



Initial Glimmerings that Battle is Changing

An Integrated Approach...

"Land Combat in the 21st Century: TRADOC"

C3I Architecture Responsibilities

Army SA
DISC4

SIGCEN SA-C Lead

Primary proponent for :

- **Requirements**
- **Doctrine**
- **Force structure**
- **System #s & locations**

Processes include :
Op Arch, C4RDP, TO&E, DCD visits, OPFAC boards, & IERs

PEO C3S SA-D Lead

Primary proponent for :

- **Implementation details**
- **Technical assessments**
- **Resource constraints**
- **Detailed analyses**

Processes include:
IPTs, PEO/PM reviews, CTSF, TI and TOC data design, Tech Arch

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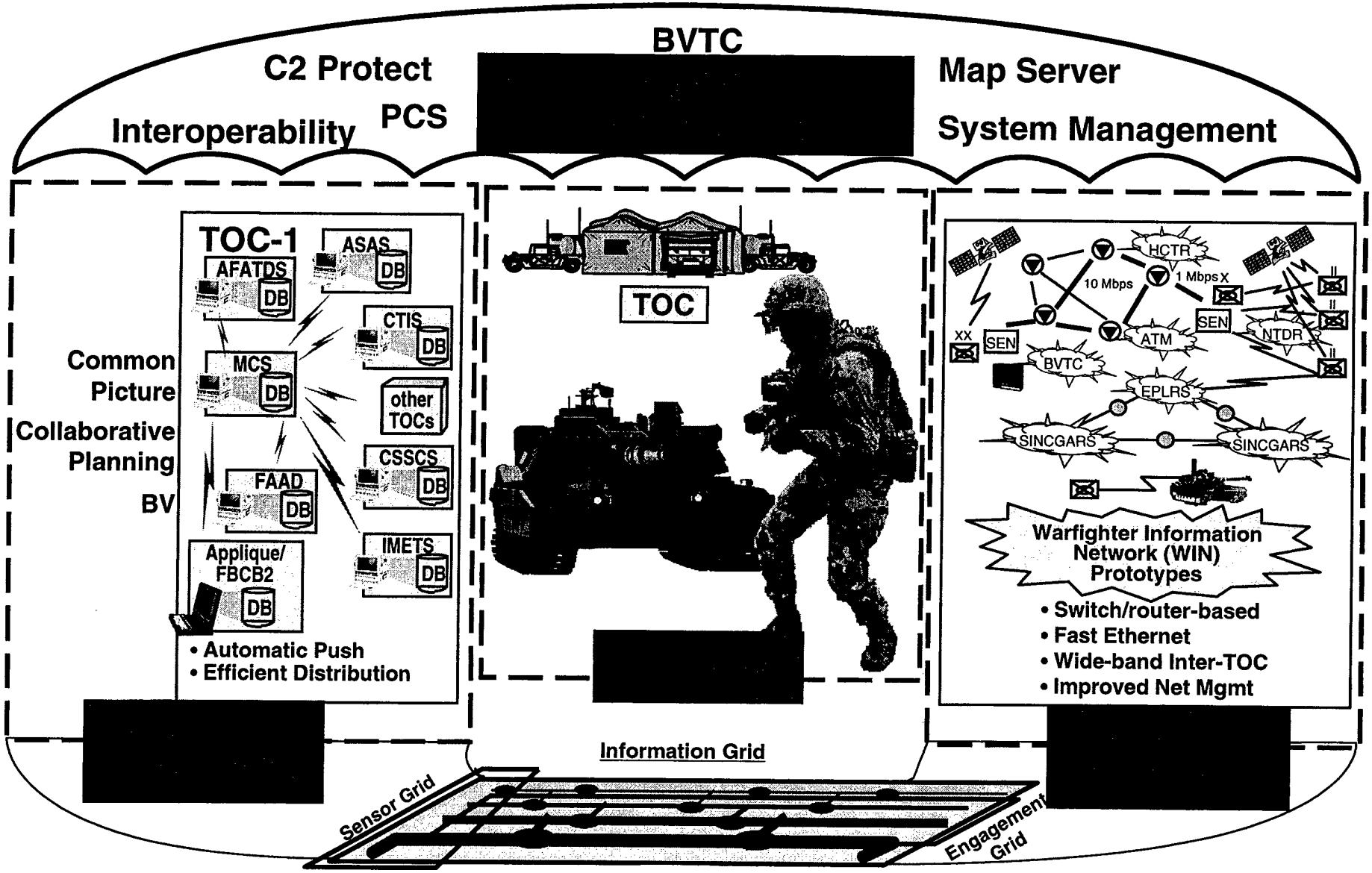
Both are responsible for coordinating these changes with a broad set of stakeholders.

***Regardless Of Maturity** (SA-C or D) - Each organization coordinates changes within its own area of responsibility, then submits SACPs to DA for consideration.*

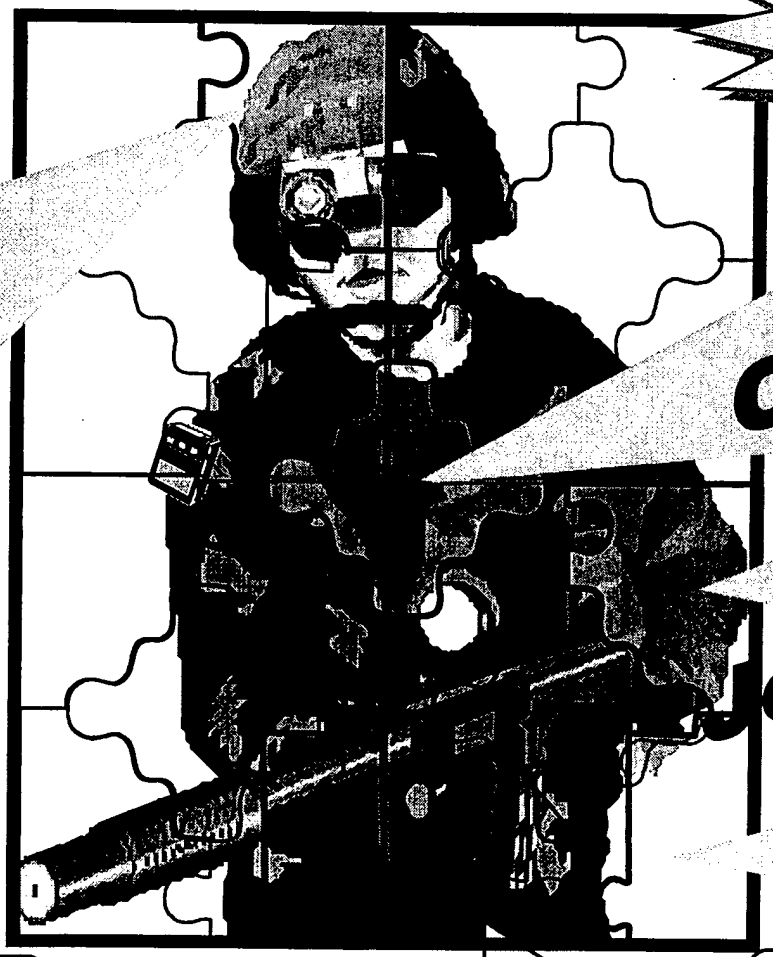
PEO C3S Process (Initiated Sep 1997)

SoS evolutionary development and fielding

- Spiral Model/CTSF
- Tech Insertion
- IPTs



Making the System-of-Systems Go-To-War



War-Fightable

Task Re-Org

Ops-Flexibility

Joint/Combined

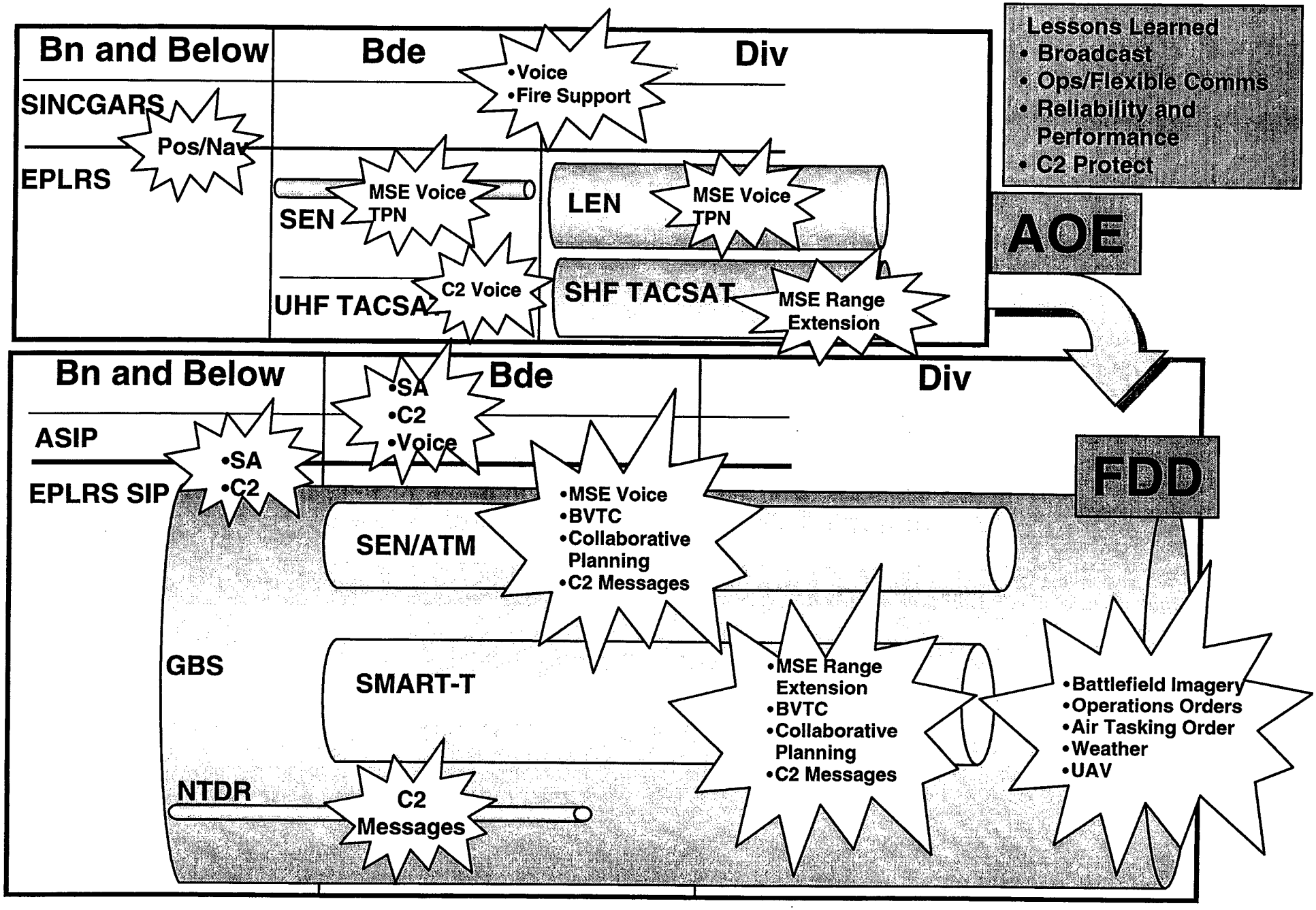
Security

AWE Priorities
1. Functionality
2. Interoperable
3. Go-to-War

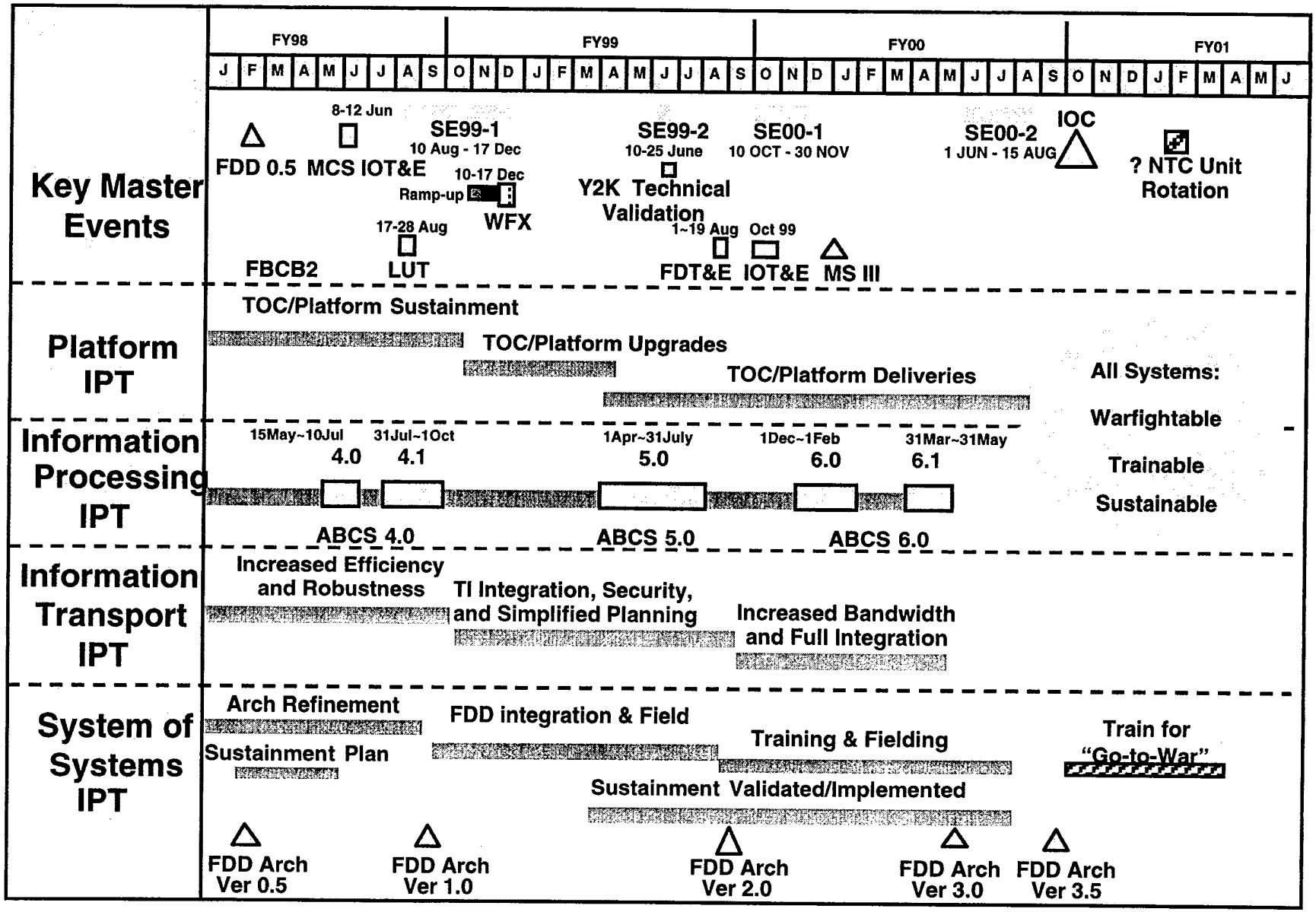
Change of Priorities

FDD Priorities
1. Go-to-War
2. Interoperable
3. Functionality

FDD Communications View



Master FDD Schedule
Version 1.0



Integrated Data Environment (IDE)

PEO C3S's Integrated Data Environment (IDE) Strategy



PROGRAM EXECUTIVE OFFICE
COMMAND, CONTROL
AND COMMUNICATIONS SYSTEMS

PEO C3S Vision:

An integrated digitized PEO for business & operations processes that provides world-class development, fielding and support to the Integrated Digitized Battlefield

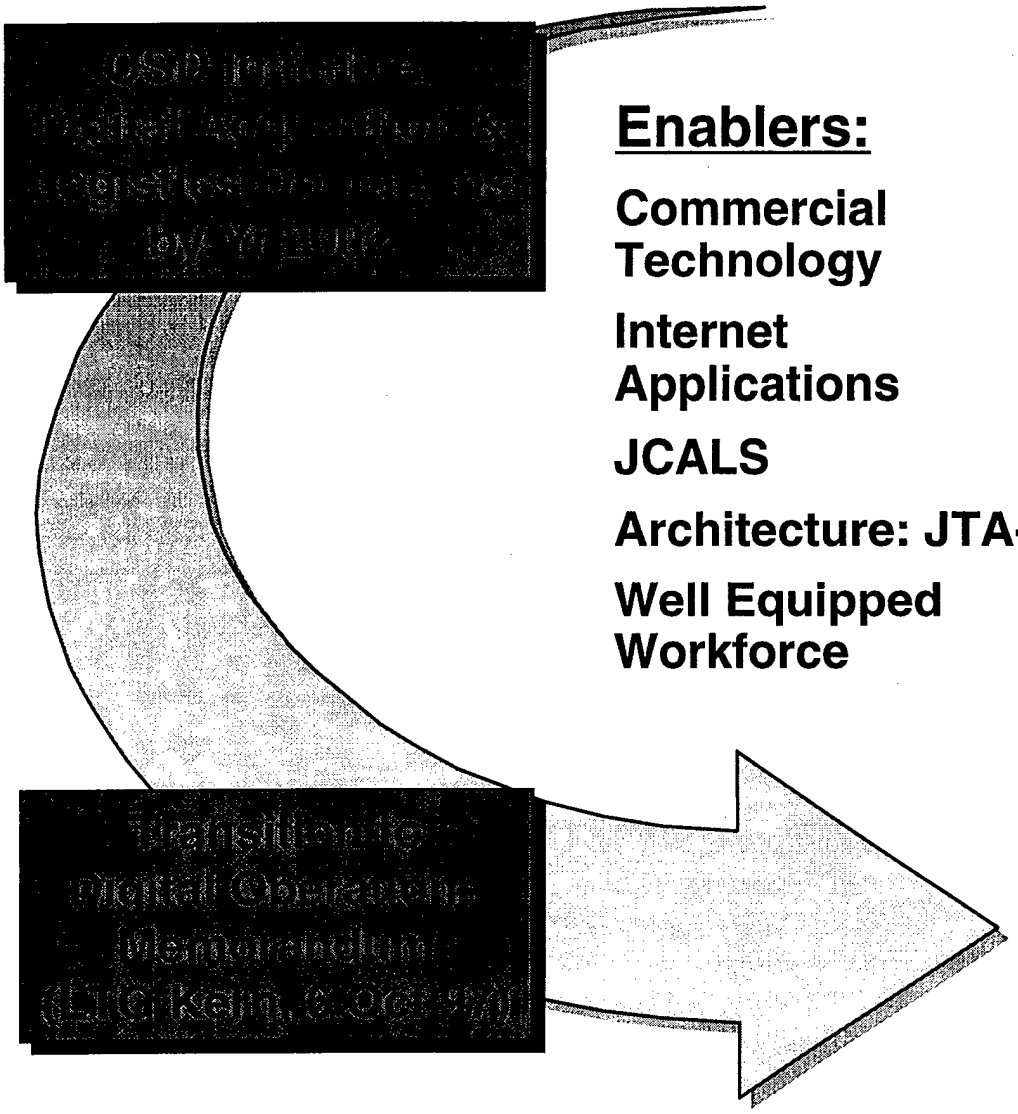
- **Work with CSA's Army Knowledge Office Project**
- **Prototype PEO for Public Key Infrastructure for the Army**

Implementation

IDE Strategic Objectives:

- **Real Time Information for decision making**
- **Create information solutions for the "Road Warrior"**
- **Automate internal PEO Business processes**
- **Develop information channels to the War Fighter**
- **Initiate Process Innovation for increased effectiveness**

PEO C3S: Leader in Implementing an Integrated Data Environment (IDE)



Enablers:

- Commercial Technology
- Internet Applications
- JCALS
- Architecture: JTA-A
- Well Equipped Workforce

PEO C3S Initiatives

- Pilot Paperless ASARC
- The Army's Secure Email Prototype
- Internet Information Channel to the User
- World Class Desktop and Office VTC Capabilities
- Telecommuting Center for the Road Warrior
- Interactive Technical Collaboration Sites
- Source for Automated Integrated Scheduling and Planning for FDD
- Electronic Tracking, Suspense & Filing
- Secure Websites

Functionality & Features:

- Information Exchange
- Collaboration
- Interactive
- Secure:
  - Secure Socket Layer
  - Password
  - Authentication
  - Encryption
  - Encrypted Access Paths
- Work Flow

Actual PEO C3S Information Operation Center

PEO C3S Information Operation Center

Alerts
2/28/59

A Successful Integrated Data Environment (IDE) Will Be Critical to the Success of This Organization

- Brigadier General Steven W. Boutelle

[redacted]

Need Help/Support
Call 1-888-XXX-XXXX

"Point & Click Desired Application"

Operations

- PEO Directives
- Master Schedule
- Front Office Calendar(s)
- Upcoming Meetings/Events
- Standard Briefing Charts
- Briefing Archive
- Correspondence, Suspense Tracking

Reference

- Document Library
- PEO Policies
- PEO Lesson Learned/Success Stories
- PEO Community Telephone/Email Directory
- POC Directory
- Rolidex (Outside Phone/Email & Addresses)

Work Groups

- PEO Forum, Topic Discussion Group
- Private Groups: (Restricted)
  - IDE IPT
  - PEO/PM Mgmt

Project Specific

- Force XXI Integration Office
  - TF XXI
  - Division XXI
  - Army System Architecture
  - FDD
  - Fort Hood
- Configuration Mgmt Office
  - HTI
  - C2SIP
  - RFPI
  - Y2K

Applications Include:

- Briefings
- Action Items Suspenses
- Discussion Groups
- Lessons Learned
- Document
- Reference
- Master Schedules

Contract Opportunities



All Source Analysis System (ASAS) Block III

System Description

- Operates as the Intelligence and Electronic Warfare (IEW) component of the Army Battle Command Systems from battalion through echelons above corps (EAC)
- Supports the Warfighter's battle management by rapidly processing and correlating large volumes of intelligence information from various sources
- Operates in any theater across the spectrum of conflict
- Supports Joint Task Forces and Special Operations Forces elements from sanctuary by using Deployable Intelligence Support Elements (DISE)

Status of Program

- ASAS Block I is fielded to 12 Priority Units with a Commercial Variant (ASAS-Extended) Fielded to the Remainder of the Active Force and 15 National Guard Brigades
- ASAS Block II in Engineering and Manufacturing Development Phase with a Milestone III Fielding Decision scheduled May 2000
- ASAS Block III is Scheduled for a Milestone II Decision in 4QFY00 with a Contract Award in August 2000. The Request for Proposal Should be Released 2QFY99

System Requirements

- **Mobile Automation Support, Battalion to (EAC)**
  - All Source Intel Fusion Processing, Analysis, & Dissemination
  - Targeting: Decide, Detect, Decide, Deliver, Battle Damage Assessment
  - Digitize the Intel Battlefield Operating System (BOS)
  - IEW Synchronization Collection/Mission Management
  - Push/Pull Intel to Win Information War
  - Counterintelligence, HUMINT, & OPSEC Support
- **Automated Interface With:**
  - Organic Army IEW Sensors/Systems
  - Other Army Command and Control (C2) Nodes
  - Joint, Theater, National Sensors and Preprocessors
  - Other Service's Intelligence Processors

Contract Opportunities

- Title: All Source Analysis System (ASAS) Block III
- Objective:
  - High Level Automation
  - CI/HUMINT
  - IMINT
  - EW/ECM
  - OPSEC
  - Enhance Existing Block II
- Proposed Contract Type: CPAF or CPIF
- Key Milestones:
  - Contract Award 15 August 2000
  - Contract Completion 14 August 2005
- Estimated Value: $100M
- Technical POC: LTC Greg Fritz (703) 275-8088
- Contract POC: TBD



Global Command and Control System - Army (GCCS-A)

System Description

GCCS-A is the Army complement to the Joint Global Command and Control System, focusing at the Army specific applications dealing with strategic and theater levels of command. The system is structured to meet the combined requirements of the Army Battle Command System and GCCS.

Contract Opportunities

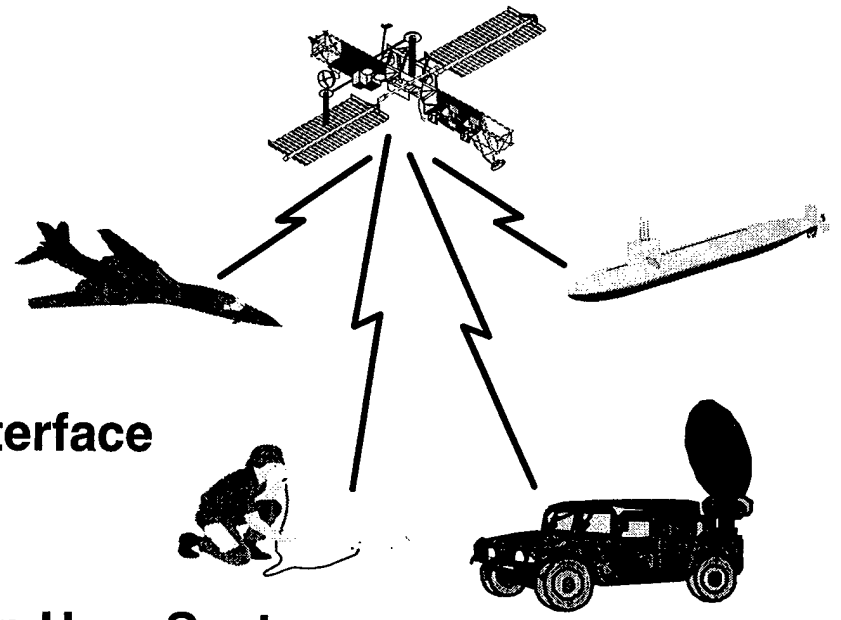
- Title: Global Command and Control System - Army
- Objective:
  - Develop a complementary system to GCCS which provides Army users C2 unique functionalities and provides access to Joint C2 applications.
- Proposed Contract Type: Cost Plus Award Fee
- Key Milestones:
  - RFP Release - 3Q99
  - Award - 2Q00
- Estimated Value: $125M-$150M
- Technical POC: MAJ Catherine McNerney (703) 806-6495
- Contract POC: Ms. Peggy Butler (703) 325-2858



Single Channel Anti-jam Manportable Terminal (SCAMP) Block II

System Description

- Milstar LDR & Future Advanced EHF (AEHF) Manportable Satellite Terminal
- Worldwide Range Extension of Critical C41 Information
- Special Operations & All Army Echelons
- Provides Anti-jam, Low Probability of Intercept/ Detection
- Interface Capabilities
  - Terminal Baseband
    - Low Data Rate Voice
    - Expanded AEHF Data Rates (~20 Kbps)
    - Red Data Port
    - Network Ready - Ethernet Interface
  - External Baseband
    - PC's LCU
    - Range Extend Army Common User System (Voice & Data) Range Extend Tactical Internet



Program Status

- **Engineering Feasibility Efforts (EFE) Near Term Goals**
  - FY98 Complete Initial Prototype Block II Terminal
  - FY99 Demonstrate 12-15 lbs, Extended Battery Life, Milstar Capability
  - FY00 Refine & Demonstrate Prototype Terminal - Spiral Development
  - Work Toward Advanced EHF Capabilities
- **Technology Transfer CD-ROMs - Updated Releases Bi-Annually**
- **Demonstrate Block II Prototype Capabilities to Support 1QFY01 Milestone II Decision**

System Requirements

	Block I	Block II
Weight	37 lbs	12-15 lbs
Communication Mode	LDR Data 75-2400 Bps LDR VOICE 2400 Bps	LDR Data 75-2400 Bps, AEHF 20 Kbps (Objective) LDR Voice
Voice Quality	>=STU III	High Quality Voice Recognition
Range Extension	SINCGARS (Data Only) ACUS (Data Only)	SINCGARS (Data & Voice) ACUS (Data & Voice)
Battery Duration	10 Hours	24 Hours 96 Hours (Objective)
MTBOMF	600 Hours	1250 Hours
Setup Time	<10 Minutes	Objective 5 Minutes
COMM on the Move	No	Objective
Paging	No	Yes
Quantity	312 All Services	2333 Army Others TBD

Contract Opportunity

- Objective: Spiral Development/Test/Evaluate 20 Block II SCAMP EMD/LRIP Terminals
  - Two (Competitive Development) Contractors
- Proposed Contract Type: Cost Plus Award Fee
- Key Milestones:
  - RFP 4QFY00
  - Award 2QFY01
- Estimated Value: Spiral Development $20-30M
- Technical POC: Mr. Carl Swenson (732) 532-5425
- Acquisition POC: Ms. Wendy McCutcheon (732) 532-5486

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ACRONYMS

1DFSA	1st Digitized Force Systems Architecture
(A)	Acting
AA	Attack Assessment
AAA	Army Audit Agency
AAC	Army Acquisition Corps
AAE	Army Acquisition Executive
AAH	Apache Attack Helicopter
AAMMIS	AMC Automated Manpower Management Information System
AAN	Army After Next
AAP	Army Ammunition Plant
AAPPSO	Army Acquisition Pollution Prevention Support Office
AAT	Advanced Armament Technology; **ALSO:** Advanced Antenna Technology; **ALSO:** Automatic Analog Tester
AAV	Amphibious Assault Vehicle
AB	Army Brigade; **ALSO:** Air Base; **ALSO:** ADA Based
ABC	Activity Based Costing
ABSCA	Armed Services Board of Contract Appeals
AC	Acquisition Center
ACAT	Acquisition Category
ACC	Advanced Communications Controller; **ALSO:** Air Combat Command
ACEIT	Automated Cost Estimating Integrated Tools
ACERT	Army Computer Emergency Response Team
ACIS	Aircrew Integrated Systems
ACMA	Acquisition Career Management Advocate
ACME	Airborne Cloud Measurement Equipment
ACOE	Army Communities Of Excellence
ACOM	Atlantic Command; **ALSO:** Automatic Centralized Operations & Maintenance
ACP	Army Cost Position
ACQ	Acquisition
AC/RC	Active Component/Reserve Component
ACS	Aerial Common Sensor
ACTEDS	Army Civilian Training, Education and Development System
ACTD	Advanced Concept Technology Demonstration
ACTS	Acquisition Control & Tracking System; **ALSO:** Advanced Communications Technology Satellite; **ALSO:** Air Combat Training System
ACUS	Area Common User System
ADA	**(DoD software programming language)**
ADCCS	Air Defense Command and Control Systems
ADCS	Automated Document Conversion Service
ADDS	Army Data Distribution System
ADDSI	Army Data Distribution System Interface
AD/EXJAM	Artillery Deliverable Expendable Jammer
ADI	Architecture Development Team
ADM	Acquisition Decision Memorandum
ADMIN	Administration
ADN	Automatic Digital Network
ADNX	Automated Digital Network Exchange

ADP	Automated Data Processing
ADPA	American Defense Preparedness Association
ADO	Associate Director of Operations
ADR	Alternative Dispute Resolution
ADRP	Army Defense Information Systems Network (DISN) Router Program
ADS	Army Development Office
ADV	Advanced
AEA	Army Enterprise Architecture
AEC	Area Equipment Compound; **ALSO:** Atomic Energy Commission; **ALSO:** Aviation Electronics Combat; **ALSO:** Advanced Electronics Corporation; **ALSO:** Airborne Electronic Combat
AEPI	Army Environmental Policy Institute **(Atlanta, GA)**
AFARS	Army Federal Acquisition Regulation
AFATDS	Advanced Field Artillery Tactical Data System
AFCEA	Armed Forces Communications Electronics Association
AFCS	Advanced Flight Control System
AFMS	Auxiliary Fuel Monitoring System
AGCCS	Army Global Command and Control System
AGR	Antenna Group Refurbishment
AGS	Alliance Ground Surveillance
AGSE	Aviation Ground Support Equipment
AGTS	Advanced Gunnery Training System
AHFEWS	Army High Frequency Electronics Warfare System
AI	Artificial Intelligence; **ALSO:** Acquisition Instruction
AIE	Army Interoperability Engineering
AIEW	Avionics Intelligence/Electronic Warfare
AIM	Acquisition Information Management
AIMS-R	Automated Instruction Management System - Redesign
AIN	Army Interoperability Network
AIS	Automated Information System
AIT	Automated Identification Technology; **ALSO:** Automation Integration Technology
AJCM	Anti-Jam Control Modem
AKMS	Army Key Management System
ALPS	Advanced Laser Protective System
ALT	Administrative Lead Time
AM	Army Management
AM3	Affordable Multi-Missile Manufacturing
AMAS	Automated Material Acquisition System
AMC	U.S. Army Materiel Command
AMCAM	U.S. AMC Deputy Chief of Staff for Ammunition
AMCLG	U.S. AMC Deputy Chief of Staff for Logistics & Operations
AMCMI	U.S. AMC Deputy Chief of Staff for Intelligence
AMCRDA	U.S. AMC Deputy Chief of Staff for Research, Development & Acquisition
AMDS	Advanced Monitoring Display System
AMPS	Aviation Mission Planning Systems
AMSAA	U.S. Army Materiel Systems Analysis Activity
AMSC	Army Management Staff College
ANAD	Anniston Army Depot
ANSI	American National Standards Institute
ANVIS	Aviation Night Vision Imaging Systems
AOA	Analysis of Alternatives

AOC	Association of Old Crows
AP	Acquisition Plan; **ALSO:** Anti-personnel
APB	Acquisition Program Baseline
APBI	Advance Planning Briefing for Industry
APES	Advanced Protective Eyewear System
APIC	Acquisition Process Improvement Campaign
APL-A	Anti-Personnel Landmine Alternatives
APP	Appropriation
APPS	Analytical Photogrammetric Positioning System; **ALSO:** Automated Publications Production System; **ALSO:** Application Portability Profile Standards
APS	Army Prepositioned Stock
APTU	Army Prototype Test Unit
AQF	Advanced QUICK FIX
AQL	Advanced Quicklook
AOP	Approved Operating Program
AR	Army Regulation
ARAT	Army Reprogramming Analysis Team
ARC	Army Reuse Center
ARIAT	Acquisition Reform Implementation Assessment Team
ARIES	Army Research, Development & Acquisition Internet Issue Entry System
ARL	Army Research Laboratory
ARNG	Army National Guard
ARPA	Advanced Research Projects Agency
ARSB	Acquisition Reform Satellite Broadcast
ARTIS	ALPHA Remote Terminal Interactive System
ASA	Assistant Secretary of the Army
ASARC	Army Systems Acquisition Review (Council/Committee)
ASAS SW	All Source Analysis System Software
ASB	Area/Aviation Support Battalion; **ALSO:** Army Science Board; **ALSO:** Army Supply Base
ASBCA	Armed Services Board of Contract Appeals
ASC	Army Simulation Center
ASCII	American Standard Code for Information Interchange
ASCT	Auxiliary Satellite Control Terminal
ASD	Advanced Systems Division
ASH	Army Space Heaters
ASHRAE	American Society of Heat, Refrigeration and Environment
ASIS	Ammunition Surveillance Information System
ASMC	American Society of Military Comptrollers
ASMP	Army Strategic Mobility Program
ASP	Army Supply Plant
ASPO	Army Space Program Office
ASSI	Aerial Scout Sensors Integration; **ALSO:** Additional Special Skill Indicator
AST	Analytical Simulation Team
ASTAMIDS	Airborne Standoff Mine Detection System
AT	Anti-tank
ATA	Army Technical Architecture
ATAAPS	Automated Time Attendance and Productivity System
ATARS	Advanced Technology Assessment Reports
ATAV	Army Total Asset Visibility

ATB	Aviation Training Brigade
ATC	Aberdeen Test Center; **ALSO:** Affordability Through Commonality; **ALSO:** Air Traffic Control
ATCCS	Army Tactical Command and Control Systems
ATCMDS	Advance Transportation Control and Movement Documents
ATCOM	U.S. Army Aviation and Troop Command
ATD	Advanced Technology Demonstration
ATIRCM	Advanced Threat Infrared Countermeasure
ATM	Asynchronous Transfer Mode
ATNAVICS	Air Traffic Navigation, Integration, Coordination System
ATRJ	Advanced Threat Radar Jammer
ATSS	Automatic Test Support System
AUM	Asset Utilization Model
AVIM	Aviation Intermediate Maintenance
AVIC	Army Visual Information Center
AVLB	Armored Vehicle-Launched Bridge
AVNS	Avionics
AWCF	Army Working Capital Fund
AWE	Army Warfighting Experiment
AWPS	Army Workload And Performance System
AWR	Army War Reserve
B	Billion
BAA	Broad Agency Announcement
BADD	Battlefield Awareness Data Dissemination
BAFO	Best and Final Offer
BASIS	Battlefield Acoustic Sensor Integration System
BAT	Brilliant Anti-Armor Submunition
BCIS	Battlefield Combat Identification Systems
BCS	Battery Computer System
BDE	Brigade
BDMS	Blade Deflection Measurement System
BEC	Base Environmental Coordinator
BED	Battlefield Environment Division
BER	Bit Error Rate; **ALSO:** Budget Execution Review
BFA	Battlefield Functional Area
BFTA	Bulk Fuel Tank Assemblies
BFVS	Bradley Fighting Vehicle System
BGAD	Blue Grass Army Depot
BID	Business Integration Division
BIP	Battlefield Interoperability Program
BITS	Battlefield Information Transmission Systems
BLDG	Building
BLIN	Budget Line
BLOS	Beyond Line Of Site
BN	Battalion
BOM	Bill of Materials
BOP	Business Opportunities Page
BP	Battle Planning
BPA	Blanket Purchase Agreement
BPG	Business Process Group
BPI	Bits Per Inch
BPV	Battlefield Planning and Visualization
BQ	Bachelor Quarters

BR	Branch
BRAC	Base Realignment and Closure
BSTF	Business Systems Task Force
BTU	British Thermal Unit; **ALSO:** Basic Terminal Unit
BRDEC	Belvoir Research Development & Engineering Center
BV	Best Value
BZ	Battle Zone
C2	Command and Control
C2SID	Command, Control and Systems Integration Directorate
C2IL	Command and Control Integration Language
C3	Command, Control and Communications
C3S	Command, Control and Communications Systems
C4I	Communications, Command, Control and Computers Intelligence
C4IEWS&IM	Communications, Command, Control and Computers Intelligence, Electronics Warfare and Sensors & Information Management
C4RDP	Command, Control, Communications and Computers Requirements Definition Program
CA	Certification Authority; **ALSO:** Commercial Activities
CAAN	Combined Arms Assessment Network
CAAS	Contracted Advisory and Assistance Services
CAC-W	CECOM Acquisition Center-Washington
CACWOO	CECOM Acquisition Center - Washington Operations Office **(now CAC-W)**
CAD	Cost Analysis Division; **ALSO:** Computer Aided Design; **ALSO:** Contract Appeals Division
CAD\E	Computer Aided Design And Engineering
CADEC	Counter-Air Directed Energy Capability
CAE	Computer Aided Engineering; **ALSO:** Common Application Environment
CAISI	Combat Service Support Automated Information System Interface
CAIV	Cost as an Independent Variable
CALS	Continuous Acquisition and Life-Cycle Support; **ALSO:** Computer Assisted Logistics Systems
CAM	Computer Aided Manufacturing; **ALSO:** Chemical Agent Monitor; **ALSO:** Control Account Manager
CAP	Critical Acquisition Position
CAPS	Counter Active Protection Systems
CAPS II	Consolidated Aerial Port System II
CARD	Cost Analysis Requirements Description
CARI	Corporate Academy Redesign Initiative
CAS3	Combined Arms Services & Staff School
CASCOM	U.S. Army Combined Arms Support Command
CASL	Competition Advocates Shopping List
CATT	Combined Arms Tactical Trainer
CATV	Cable Television
CAV	Cavalry
CAVE	Contractual Aspects of Value Engineering
CAW	Certification Authority Workstation
CBD	Commerce Business Daily
CBDCOM	U.S. Army Chemical and Biological Defense Command
CBI	Circuit Bundling Initiative
CBN	Carlisle Barracks Network
CBS	Common Baseline Software

CBT	Computer Based Training
CCAD	Corpus Christi Army Depot
CCD	Configuration Control Document
CCDR	Contractor Cost Data Reporting
CCITT	Consultive Committee on International Telephony and Telegraphy
CCS	Command & Control Systems
CCSLA	CECOM Communications Security Logistics Activity
CCSO	CECOM CALS Support Office
CCSS	Commodity Command Standard System
CCTT	Close Combat Tactical Trainer
CCU	Command Center Upgrade
CDG	Competitive Development Group
CDPL	Command Designated Position List
CDRL	Contract Data Requirements List
CD-ROM	Compact Disk-Read Only Memory
CDS	Compact Digital Switch
CEAC	CECOM Executive Advisory Committee
CE	Concurrent Engineering; **ALSO:** Cost Estimate
CEAC	Cost Evaluation and Analysis Center
CEC	Combat Equipment Company
CECOM	U.S. Army Communications-Electronics Command
CEG-A	U.S. Army Combat Equipment Group-Asia
CEG-E	Combat Equipment Group-Europe
CEO	Corporate Executive Officer
CEP	Concept Experimentation Program
CERDEC	CECOM & Director of CECOM Research Development & Engineering Center
CES	Circuit Emulation Service
CF	Copy Furnished
CFT	Captive Flight Test
CG	Commanding General
CGM	Computer Graphic Metafile
CGS	Common Ground Station
CGSC	Commanding General Signal Corps
CHATS	Counterintelligence/Human Intelligence Automated Tools Set
CHS	Common Hardware/Software
CI	Configuration Item; **ALSO:** Corporate Information
CI ACTD	Combat Identification Advanced Concept Technology Demonstration
CIBS-M	Common Integrated Broadcast Service - Modules
CICM	Communications Integration and Cosite Mitigation
CICS	Customer Information Control System
CID	Combat Integration Division
CIDDS	Combat Identification System for the Dismounted Soldier
CIGNM	Cecom Integrated Global Positioning System Navigation Model
CINC	Commander-in-Chief
CIO	Chief Information Officer
CIR	Contractor Information Report; **ALSO:** Critical Implementation Review
CIS	Contractor Information System; **ALSO:** Communications And Information Systems
CIT	Commercial-Industrial Type
CITIS	Contractor Integrated Technical Information Service
CIV	Civilian
CLIN	Contract Line Item Number

CLS	Contractor Logistics Support
CM	Countermeasures; **ALSO:** Countermine; **ALSO:** Countermobility; **ALSO:** Cruise Missile
CMD	Command
CMM	Capability Maturity Model
CMN	Common
CMP	Common Message Processor
CMS	Combat Mission Simulator; **ALSO:** Communications Management System
CMTS	Compliance Monitoring and Tracking System
CMWS	Common Missile Warning System
CNAD	Council of North Atlantic Treaty Organization Armament Directors
CNCMS	Counternarcotics Command and Management System
CNPS	Common Network Planning Software
COBRA	AH-1S Attack Helicopter
COE	Common Operating Environment; **ALSO:** Center of Excellence
COL	Colonel
COMINT	Communications Intelligence
COMM	Communications; **ALSO:** Commodity
COMP	Competitive
CONT	Contractor
CONUS	Continental United States
COP	Common Operational Picture
CORANET	Combat Ration Advanced Manufacturability Network
COSSI	Commercial Operation and Support Savings Initiative
COTS	Commercial Off-the-Shelf
CP	Command Post
CPFF	Cost Plus Fixed Fee
CPR	Cost Performance Report; **ALSO:** Cardiopulmonary Resuscitation
CPT	Captain
CPU	Central Processing Unit
CRADA	Cooperative Research And Development Agreement
CRDA	Chief, Research Development and Acquisition **ALSO:** Cooperative Research and Development Agreement
CREST	Career Related Experience In Science And Technology
CRPA	Controlled Radiation Pattern Antenna
CRS	Communications Realism Submodel
CSA	Chief of Staff of the Army
CSCC	Consulting Services Contract Coordinator
CSCE	Communications System Control Element
CSCI	Computer Software Configuration Item
C/SCSC	Cost/Schedule Control Systems Criteria
CSE	Critical Skills Engineer
CSEL	Combat Survivor Evador Locator
CSLA	Communications Security Logistics Activity
CSS	Communications Switching Systems
CSSCS	Combat Service Support Control System
CSSQT	Combat System Ship Qualification Trial
C/SSR	Cost/Schedule Status Report
CSTS	Combat Support Training System
CT1S	Common Tier 1 System
CTASC-II	Corps Theater ADP Service Center, Phase II

CTIS	Combat Terrain Information System
CTR	Center
CTSF	Centralized Training Systems Facility
CTT	Commanders Tactical Terminal
CUBE	Control Unified Battlespace Environment
CUITN	Common User Information Transport Network
CUM	Cumulative
CVW	Collaborative Virtual Workspace
DA	Department of the Army
DAB	Defense Acquisition Board
DAC	Discretionary Access Control; **ALSO:** Defense Ammunition Center
DACM	Director of Acquisition Career Management
DAD	Deployment Assistance Device
DAE	Defense Acquisition Executive
DAIG	Department of the Army Inspector General
DAMA	Demand Assigned Multiple Access
DAMMS-R	Department of Army Movement Management System - Redesign
DAO	Defense Attaché Office
DARA	Department of the Army Radiation Authorizations
DARP	Department of the Army Radiation Permits
DARPA	Defense Advanced Research Projects Agency
DASA	Defense Satellite Communications System Automatic Spectrum Analyzer
DASSS	Department of the Army Software Support Services
DB2I	Database-to-Database Interface
DBC	Digital Battlefield Communications
DBM	Data Base Management
DBOF	Defense Business Operating Fund
DBS	Direct Broadcast Satellite
DCASS	Defense Communication & Army Switched System
DCATS	Defense Communication & Army Transmission System
DCI	Directorate for Corporate Information
DCL	Defense Communication Link
DCO	Deputy Commanding Officer
DCPDS	Defense Civilian Personnel Data System
DCS	Defense Communication System
DCSCE	Downsized Communications Systems Control Element
DCSIM	Deputy Chief of Staff for Information Management
DCSPER	Deputy Chief of Staff for Personnel
DCSOPS	Deputy Chief of Staff for Operations
DCSS	Digital Communications Satellite Subsystem
DDC	Defense Distribution Center
DDN	Defense Data Network
DDRT	Defense Distribution Red River, Texas
DE	Directed Energy
DECS	DSCS Electronic/Electromagnetic Counter-Countermeasure Control Subsystem
DEF	Defense
DERA	Defence Evaluation and Research Agency (**UK**)
DERM	Defense Satellite Communication System Engineering Resource Management Systems
DEW	Directed Energy Weapon
DF9	Diesel Fuel #9
DFARS	DoD Federal Acquisition Regulation Supplement
DFAS	Defense Finance and Accounting Office

DFCS	DSCS Frequency Division Multiple Access Control Subsystem
DFMA	Design for Manufacturing Assembly
DFPO	Dallas Field Placement Office
DGCL	DSCS Ground Mobile Forces Control Link
DGM	Defense Guidance Memorandum
DHCP	Dynamic Host Configuration Protocol
DI	Domain Integration
DII	Defense Information Infrastructure
DIIS	Directorate for Intelligence and Information Security
DIL	Digital Integrated Laboratories
DIMSS	Defense Information Systems Agency Defense Switched Network Integrated Management Support System
DINL	Device Initialization
DIS	Daylight Imaging System; **ALSO:** Defense Information Service/System; **ALSO:** Distributed Interactive Simulation
DISA	Defense Information Systems Agency
DISC4	Director of Information Systems for Command, Control, Communications and Computers
DISN	Digital Integrated Services Network; **ALSO:** Defense Information Systems Network
DITC	Defense Technical Information Center
DL	Distance Learning
DLA	Defense Logistics Agency
DLAMP	Defense Leadership and Management Program
DLA-$AVE	Defense Logistics Agency - $savings through Value Enhancement
DLP	Distance Learning Program
DLS	Depot Logistics System
DLSC	Defense Logistics Support Command
DMC	Defense Mega Center
DMM	Materiel Management Directorate
DMS	Defense Messaging System; **ALSO:** Data Management System
DMZ	Demilitarized Zone
DNR	Digital Network Radio
DOCS	Defense Satellite Communications Systems Operations Control System
DoD	Department of Defense
DODAAC	Department of Defense Activity Address Code
DOE	Department of Energy
DOIM	Directorate of Information Management
DOPMA	Defense Officer Personnel Management Activity
DORRA	Defense Operations Research and Resource Analysis Office
DOS	Disk Operating System
DOSS	Defense Satellite Communications Systems Operational Support System
DOSSNET	Defense Satellite Communications Systems Operational Support System Network
DPAS	Defense Property Accountability System
DPEO	Deputy Program Executive Officer
DPG	Dugway Proving Ground
DPMO	Deployment Process Modification Office
DPW	Directorate of Public Works
DRE	Readiness Directorate
DREN	Defense Research Engineering Network
DRFP	Draft Request for Proposal

DRM	Directorate for Resource Management
DS	Direct Support
DSAB	Defence Science Advisory Board (**Canadian**)
DSAMS	Defense Security Assistant Management System
DSC	Digital Source Collector
DSCS	Defense Satellite Communications Systems
DSCSI	Defense Satellite Communications Systems Installations
DSED	Direct Support Engineering Directorate
DSMS	Defense Spectrum Management System
DSN	Defense Switched Network
DSREDS	Digital Storage and Retrieval Engineering Data System
DSRM	Directorate of Safety Risk Management
DSSMP	Digital Switched Systems Modernization Program
DSVS	Dismounted Soldier Video System
DSWA	Defense Special Weapons Agency
DTAP	Defense Technology Area Plan
DTAV	Defense Total Asset Visibility
DTD	Document Type Description; **ALSO:** Dated
DTIC	Defense Technical Information Center
DT/OT	Development Tests/Operational Tests
DTUPC	Design to Unit Production Cost
DTV	Drivers Thermal Viewer
DUAP	Dual Use Application Program
DVD	Direct Vendor Delivery
DVE	Driver's Vision Enhancer
DVTC	Desktop Video Teleconferencing
DWN	Dismount Warrior Network
EA	Executive Agent; **ALSO:** Electronic Attack; **ALSO:** Economic Analysis
EAC	Echelons Above Corps
EA-CI	Executive Agent for Corporate Information (**CECOM CG**)
EAD	Extended Air Defense
EASI	Engineering Air Systems, Inc.
EBB	Electronic Bulletin Board
EBBS	Electronic Bulletin Board System
EC	Electronic Commerce
ECAS	External Compliance and Assessment System
ECB	Echelons Corps and Below
ECCM	Electronic/Electromagnetic Counter-Countermeasure
ECCP	European Command Centers Program
ECP	Engineering Change Proposal
ECU	Environmental Control Units
EDI	Electronic Data Interchange
EDT	Engineering Development Test
EFE	Engineering Feasibility Efforts
EIE	Environmentally Integrated Effects
EGI	Embedded Global Positioning System Inertial
EIE	Equipment Inventory Evaluation
EIP	Engineering Installation Package
EKIP	Extended Korea Improvement Plan
ELINT	Electronics Intelligence
ELP	Environmental Leadership Program
EMC	Electromagnetic Compatibility

EMD	Engineering and Manufacturing Development; **ALSO:** Environmental Management Division
EMI	Electromagnetic Interface
EMR	Environmental Management Review
EN	Enemy; **ALSO:** Engineer; **ALSO:** Extension Node
ENGR	Engineer(ing)
ENS	Explosive Neutralization System
EO	Electro-Optical; **ALSO:** Equal Opportunity
EP	Eastpac
EPA	Economic Price Adjustment; **ALSO:** Extended Planning Annex; **ALSO:** Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
EPG	Electronic Proving Grounds, Fort Huachuca AZ
EPLRS	Enhanced Position Location Reporting System
EPP	Electric Power Plant
EPR	Equipment Performance Report
EPRB	Emergency Position-Indicating Radio Beacon
ES	Electronic Support
ESC	Electronic Systems Center; **ALSO:** Executive Steering Committee
ESMB	Explosive Standoff Minefield Breacher
ESP	Equipment Survey Program
ESSC	Electronic Single Support Center
ESSD	Executive Software Systems Directorate
ESSO	European Software Support Office
ESSS	Electronic Single Support Strategy
ESTPC	Environmental Security Technology Certification
ET	Earth Terminal
ETC	Earth Terminal Complex
ETLOS	Enhanced Target Location and Observation System
ETM	Electronic Technical Manual
ETT	Environmental Technology Team
EUCOM	European Command
EV	Earned Value
EV/AT	Evaluation and Acceptance Test
EVM	Earned Value Management
EW	Electronic Warfare
EXSUM	Executive Summary
FA	Functional Area; **ALSO:** First Article; **ALSO:** Field Artillery
FAAD	Forward Area Air Defense
FAD	Funding Allowance Document
FADEC	Full Authority Digital Electronic Control
FAI	First Article Inspection
FAMSIM	Family of Simulations/Simulators
FAQ	Frequently Asked Questions
FAR	Federal Acquisition Regulation
FASA	Federal Acquisition Streamlining Act
FAST	Function Analysis System
FATDS	Field Artillery Tactical Data System
FBCB2	Force XXI Battle Command Brigade and Below
FBEO	Fort Belvoir Engineering Office
FCI	Fire Control Information
FCIM	Flexible Computer Integrated Manufacturing

FCS	Fire/Forward Control Section
FCT	Foreign Comparative Test
FDD	First Digitized Division
FDDI	Fiber-Optic Distributed Data Interface
FDMA	Frequency Division Multiple Access
FDS	Fire Direction System
FDSWS	Future Direct Support Weapon System
FECA	Federal Employees Compensation Act
FEMA	Federal Emergency Management Agency
FET	Firewall Evaluation Team
FF	Fast Forward; **ALSO:** Firefinder
FFP	Firm-Fixed Price
FG	Field Grade
FIAT	Field Inspection and Acceptance Test
FIS	Firefighters' Integrated Suit
FLEO	Fort Lee Field Office
FLIR	Forward Looking Infrared Radar
FLOT	Forward Line of Troops
FLTC	Flexible Long Term Contract
FLTS	Flight Line Test Set
FMC	Fully Mission Capable
FMG	Fort Monmouth Garrison
FMS	Foreign Military Sales
FMTV	Family of Medium Tactical Vehicles
FOC	Future Operational Capabilities
FORSCOM	U.S. Army Forces Command
FOS	Forward Observer System
FOSI	Format Output Specification Instance
FOTS	Fiber Optic Transmission System
FOTT	Follow-On-To-Tow
FPA	Force Planning Analysis; **ALSO:** Force Protection Alert
FPED	Force Projection Engineering Directorate
FPT	Follow-On Production Test
FREQ	Frequency
FRIT	Financial Restructuring Implementation Team
FRP	Full Rate Production
FRPA	Fixed Radiation Pattern Antenna
FS	Feasibility Study; **ALSO:** Field Station
FSA	Functional Support Agreement
FSED	Fire Support Engineering Division
FSS-L	Functional Support Services-Lee
FT	Fort
FTR	Financial Transaction Register
FTS2000	Federal Telecommunications System 2000
FTSS	Flight Test Simulation Station
FTX	Field Training Exercise
FUE	First Unit Equipment
FWD	Forward
FY	Fiscal Year
GATES	Global Air Transportation Execution System
GBCS (L&H)	Ground Based Common Sensor - Light & Heavy
GBS	Global Broadcast Services; **ALSO:** Ground Based Sensors
GCOP	Ground Common Operating Picture

GDOS	General Dynamics Ordnance Systems, Inc.
GEA	General Electric American
GEN II	Second Generation
GFE	Government Furnished Equipment
GGCL	Government to Government Communications Link
GMF	Ground Mobile Forces
GOSC	General Officer Steering Committee
GOTS	Government Off-the-Shelf
GPS	Global Positioning System
GRCS	Guardrail Common Sensor
GRF	Ground Relay Facility
GSCI	Gulf States Counterdrug Initiative
GSM	Ground Station Module
G-STAMIDS	Ground - Standoff Mine Detection System
GTC3S	Global Terrestrial Critical Control Circuit System
GTSI	Government Technology Services, Inc.
GUI	Graphical Users Interface
(H)	Heavy
HAB	Heavy Assault Bridge
HAC	House Appropriations Committee
HBCU/MI	Historically Black Colleges & Universities/Minority Institutions
HCI	Horizontal Contracting Integration
HCLOS	High Capacity Line of Sight Radio
HDPE	High Density Polyethylene
HEMTT	Heavy Expanded Mobility Tactical Truck
HIARNG	Hawaii Army National Guard
HIDTA	High Intensity Drug Trafficking Area
HIFX	High Energy Flash X-Ray
HIOS	High Intensity Optical Source
HLA	High Level Architecture
HMMWV	High Mobility, Multipurpose Wheeled Vehicle
HOMES	Housing Operations Management System
HPC	High Performance Computing
HPI	Horizontal Production Integration
HQ	Headquarters
HQDA	Headquarters, Department of the Army
HRDD	Human Resources Development Division
HRMM	Human Resource Management Model
HS3	Hunter Sensor Suite Surrogate
HSMS	Hazardous Substance Management System
HSS	Hot Spot Simulators; **ALSO:** Health Service Support
HSTAMIDS	Handheld Standoff Mine Detector System
HTI	Horizontal Technology Integration
HT/MT	Heavy Terminal/Medium Terminal
HTU	Handheld Terminal Unit
HW	Hardware
I2WD	Intelligence and Information Warfare Directorate
IAAAP	Iowa Army Ammunition Plant
IAEWG	International Acquisition Education Working Group
IAS	Infrastructure Architecture Solutions
IATO	Interim Approval to Operate
IBOM	Installation Bill of Materials
IBR	Integrated Baseline Review

ICAM	Improved Chemical Agent Monitor
ICAPP	Interim Configuration Management And Procurement Program
ICAS	Internal Compliance and Assessment System
ICD	Interface Control Document
ICF	Interconnect Facility
ICH	Improved Cargo Helicopter
ICOM	Integrated Communication
ICP	Interim Change Package; **ALSO:** Inventory Control Point; **ALSO:** International Cooperative Program
ICS3	Integrated Combat Service Support System
ICT	Integrated Concept Team
ICTAP	Interagency Career Transition Assistance Program
ID	Identify; **ALSO:** Infantry Division
IDE	Integrated Data Environment
IDEA	International Defense Educational Arrangement
IDIQ	Indefinite Delivery/Indefinite Quantity
IDM	Improved Data Modem
IDNX	Integrated Digital Network Exchange
IDP	Individual Development Plan
IECU	Improved Environmental Control Unit
IEEE	Institute of Electrical and Electronics Engineers
IETF	Internet Engineering Task Force
IETMS	Interactive Electroni Technical Manuals
IEW	Intelligence and Electronic Warfare
IEWCS	Intelligence Electronic Warfare Common Sensor
IEWD	Intelligence and Electronic Warfare Directorate
IEW&S	Intelligence Electronics Warfare & Sensors
IFB	Invitation For Bid
IFF	Identification Friend or Foe
IFS	Integrated Facilities System
IFSAS	Initial Fire Support Automated System
IG	Inspector General
IGMP	Internet Group Multicast Protocol
ILAP	Integrated Logistics Analysis Program
ILOGS	Integrated Logistics Systems
ILIR	Independent Laboratory In-House Research; **ALSO:** Independent Laboratory Innovative Research
ILS	Industrial Logistics System
ILSC	Industrial Logistics Systems Center
ILSMT	Integrated Logistics Support Maintenance Team (Navy)
IM	Information Management
IMA	Information Mission Area
IM&T	Information Management and Telecommunications
IMCSRS	Installation Materiel Condition Status System
IMETS	Integrated Meteorological System
IMMC	Intelligence Materiel Management Center; **ALSO:** Integrated Materiel Management Center
IMPAC	International Merchants Purchase Authorization Card
IMPRINT	Improved Performance Research Integration Tool
IMSE	Improved Mobile Subscriber Equipment
INC	Internet Controller
INF	Intermediate-Range Nuclear Forces

INOD	Improved Night/Day Observation/Fire Control Device
INSCOM	Intelligence and Security Command
IO	Information Operations
IOC	U.S. Army Industrial Operations Command
IOT	Initial Operator Test
IOTE	Initial Operational Test and Evaluation
IP	Internet Protocol
IPD	Intelligent Product Data
IPFU	Improved Physical Fitness Uniform
IPM	Inventory Projection Model
IPO	International Programs Office
IPR	In-Processing Review
IPT	Integrated Process Team
IR	Internal Review; **ALSO:** InfraRed
IRAC	Internal Review Audit Compliance
IRCM	Infrared Counter-countermeasures
IR&D	Independent Research & Development
IRPP	Ionizing Radiation Protection Program
IRPRS	Integrated Requirements and Purchase Request System
IREMBASS	Improved Remotely Monitored Battlefield Sensor System
ISACM	Integrated Situational Awareness & Countermeasures
ISAP	Information System Architecture Plan
ISC	Information Systems Command
ISCCO	Information Systems Command Contracting Office
ISCE	Information Systems Cost Estimation
ISDN	Integrated Services Digital Network
ISEC	Information Systems Engineering Command
ISED	Infrastructure Systems Engineering Directorate
ISLC	Industrial Logistics Systems Center
ISM	Integrated Sustainment Maintenance
ISMA	Information Systems Management Activity **(now: Systems Management Center)** **ALSO:** Improved Satellite Multichannel Antenna
ISS	Interactive Support System; **ALSO:** Information Systems Security
ISSAA	Information Systems Selection Acquisition Agency
ISSC	Information Systems Software Center
ISSO	Information Systems Security Officer
ISSP	Information Systems Security Plan
ITEA	International Test and Evaluation Association
ITOP	International Test Operations Procedure
ITS	Information Technology Solutions, Inc.
ITW	Integrated Tactical Warning
IVIS	Inter Vehicular Information System
IVMMD	Interim Vehicle Mounted Mine Detector
IV&V	Independent Verification and Validation
J&A	Justification & Approval
J&C	Justification & Certification
JCALS	Joint Computer-Aided Acquisition and Logistics Support
JCG-CE	Joint Commanders' Group - Communications- Electronics
JDAL	Joint Duty Assignment List
JER	Joint Ethics Regulation
JFR	Joint Functional Requirements
JILSMT	Joint Integrated Logistics Support Management Team

JISR	Joint Intelligence, Surveillance and Reconnaissance
JMASS	Joint Modeling And Simulation System
JNM	Joint Network Management
JORD	Joint Operational Requirements Document
JP8	Jet Propellant #8
JPO	Joint Programs Office
JRISS	Joint Recruiting Information Support System
JRSC	Jam Resistant Secure Communications
JSAT	Joint Systems Acceptance Test
JSLIST	Joint Services Lightweight Integrated Suit Test
JSMG	Joint Service Material Group
JSTARS	Joint Surveillance Target Attack Radar System
JTA	Joint Technical Architecture
JTACS	Joint Tactical Area Communications Systems
JTF	Joint Task Force
JTIDS	Joint Tactical Information Distribution System
JTT	Joint Tactical Terminal
JUSE	Joint User Switch Exercise
JWICS	Joint Worldwide Intelligence Communication System
KBDT	Knowledge Based Doctrine Tool
KCIU	Korean Communications Infrastructure Upgrade
KSSO	Korean Software Support Office
KTN	Korean Telephone Network
KW	Kilo Watt (1000 Watts of Electrical Power)
LADS	Laundry Advanced System
LAN	Local Area Network
LAR	Logistics Assistance Representative
LAV	Light Armored Vehicle
LBM	Long Burn Motor
LC	Launch Complex
LCC	Life Cycle Cost
LCCE	Life Cycle Cost Estimate
LCFH	Large Capacity Field Heaters
LCM	Life Cycle Model
LCU	Line Control Unit
LDAP	Leader Development Action Plan
LDR	Low Data Voice
LDTOC	Light Digital Tactical Operations Center
LEAD	Letterkenny Army Depot
LEO	Logistics Engineering Operations Directorate
LESCO	Logistics Engineering and Environmental Support Services, Inc.
LHGXA	Lightweight High-Gain X-Band Antenna
LIA	Logistics Integration Agency
LIF	Logistics Intelligence File
LIWA	Land Information Warfare Activity
LLDR	Lightweight Laser Designator Rangefinder
LLRW	Low Level Radioactive Waste
LMD	Logistics & Maintenance Directorate
LME	Lightweight Maintenance Enclosure
LMI	Logistics Management Institute
LMST	Lightweight Multiband Satellite Terminal
LNO	Liaison Officer
LOC	Location; **ALSO:** Lines of Code

LOGPARS	Logistics Planning And Requirements System (**Marine Corps**)
LOGSA	Logistics Support Activity
LOGSTAT	Logistics Status
LORA	Level Of Repair Analysis
LOS	Line of Sight
LRAS3	Long Range Advanced Scout Surveillance (Sensor/System)
LRC	Logistics and Readiness Center
LRU	Line Replacement Unit
LRIP	Low Rate Initial Production
LRRDAP	Long Range Research, Development & Acquisition Plan
LRU	Line Replaceable Unit
LSE	Logistics Support Element
LSSC	Logistics Systems Support Center
LT	Lieutenant
LTC	Lieutenant Colonel
LTLCS	Long Term Life Cycle Support
LUT	Limited User Test
LVRS	Lightweight Video Reconnaissance System
LVST	Lead Verification Site Test
LW	Land Warrior
M	Million
MAC	Mandatory Access Control
MACOM	Major Command
MAD	Management Accounting Division
MAE	Medium Altitude Endurance
MAGS	Manage Authorized Grades and Skills
MAILS	Maintenance Activity Information Logistics System
MAJ	Major
MAN	Metropolitan Area Network
MANPRINT	Manpower & Personnel Integration
MAP	Mobile Antenna Platform
MAPI	messaging application programming interface
MAPS	Mobilization Asset Planning System; **ALSO:** Modular Azimuth Positioning System; **ALSO:** Mobility Analysis & Planning System **ALSO:** Material Acquisition Processing System
MARC	Maintenance Manpower Requirements Criteria
MARCORSYSCOM	Marine Corps Systems Command
MAS	Multiple Award Schedule
MAST	MILSTAR Advanced Satellite Terminal
MB	Megabyte
MBONE	Multi Broadcast Transmissions
MBU	Modern Burner Unit
MC	Management Committee
MCA	Military Construction, Army
MCD	Mines, Countermine and Demolitions (**Picatinny Arsenal**)
MCDS	Mission Critical Defense Systems
MCEB	Military Communications-Electronics Board
MCP	Management Control Process
MCS	Maneuver Control System
MDARS-I	Mobile Detection Assessment Response System-Improved
MEA	Management Engineering Activity; **ALSO:** Munitions Effectiveness Assessment

MEP	Maintenance Enhancement Program; **ALSO:** Mobile Electric Power
MEPCOM	Military Enlistment Processing Command
MFC	Material Fielding Conference
MFLS3	Multiple Folded Laser-Radar Surveillance Survivability Sensor
MFP	Materiel Fielding Plan
MFS3	Multi-Function Staring Sensor Suite
MG	Major General; **ALSO:** Machine Gun
MGPTS	Modular General Purpose Tent System
MH/K	Mine Hunter/Killer
MIBOM	Major Item Bill of Material
MIC	Major Item Center
MICOM	U.S. Army Missile Command
MIDAS	Multiplexer Integration & DCSS Automated System
MIDS	Multifunctional Information Distribution System
MIL	Military
MILCOM	Military Communications
MILDEP	Military Deputy
MILSATCOM	Military Satellite Communications
MILSTAR	Military Strategy & Tactical Relay
MIL-STD	Military Standard
MIRPS	Modified Improved Reserve Parachute System
MIRS	MEPCOM Integrated Resource System
MISSI	Multilevel Information Systems Security Initiative
MLAAP	Milan Army Ammunition Plant
MLRS	Multiple Launch Rocket System
MLS	Multilevel Secure
MM	Manned Module
MMAD	Maxi-Mini and Databases
MMC	Materiel Management Center
MMR	Military Munitions Rule
MMS	Meteorological Measuring Set
MNVD	Monocular Night Vision Device
MOA	Memorandum of Agreement
MOD	Modernization; **ALSO:** Ministry of Defence (UK)
MOLLE	Modular Lightweight Load Carrying Equipment
MOUT	Military Operations in Urban Terrain
MP	Modernization Plan
MPI	Multiple Power Input
MPMC	Multi-National Program Management Course
MPOA	multi-protocol over asynchronous transfer mode
MPRC	Multi-Purpose Range Complex
MPRS	Mission Planning Rehearsal System
MR	Materiel Release
MRC	Major Regional Conflict; **ALSO:** Major Regional Contingency; **ALSO:** Manpower Requirements Change; **ALSO:** Materiel Release Confirmation
MRDEC	Missile Research, Development, and Engineering Center
MS	Modeling and Simulation; **ALSO:** Milestone
MSC	Major Subordinate Command
MSE	Mobile Subscriber Equipment
MSECBBS	Multi-Service Electronic Combat Bulletin Board System
MSED	Messaging Systems Engineering Directorate

MSN	Mission
MSO	Multi-Service Operation; **ALSO:** MSE Systems Overhaul
MSR	Military Service Requirement
MSRT	Mobile Subscriber Radiotelephone Terminal
MTBOMF	Mean Time Between Operational Mission Failures
MTD	Materiel Test Directorate **(White Sands Missile Range)**
MTG	Military Tactical Generator; **ALSO:** Meeting
MTI	Moving Target Indicator
MTMP	Major Command Telephone Modernization Program
MTS	Movement Tracking System; **ALSO:** Modernization Through Spares
MUBLCOM	Multiple Path Beyond Line-Of-Sight Communications
MW	Mounted Warrior
MWO	Modification Work Order
MWRH	Mounted Water Ration Heater
MYPB	Multiple Year Packaged Buy
NAC	National Automotive Center
NAF	Non-Appropriated Funds
NATO	North Atlantic Treaty Organization
NAV	Navigation
NAVWAR	Navigation Warfare
NBC	Nuclear, Biological & Chemical
NCMA	National Contract Management Association
NCO	Non-Commissioned Officer
NCR	Nuclear Regulatory Commission
NCS	Node Center Switch
NDI	Non-Developmental Item
NDIA	National Defense Industrial Association
NEO	Non-Combat Evacuation Operations/Order
NEOF	No Evidence of Failure
NES	Network Encryption System
NET	Network; **ALSO:** New Equipment Training
NGATS	New Generation Army Target System
NGB	National Guard Bureau
NGC	Northrop Grumman Corporation
NIPRNET	Non-Classified Internet Protocol Router Network
NIR	Near Infrared
NIST	National Institute of Standards & Technology
NL	Natural Language
NLOS-CA	Non Line-Of-Sight (Combined Arms)
NMC	Network Management Center
NMCC	National Military Command Center
NMD	National Missile Defense
NOM	Nomenclature
NRAD	Naval Research and Development
NRC	Nuclear Regulatory Commission, U.S.
NRCC	National Range Control Center
NRDEC	U.S. Army Natick Research, Development and Engineering Center
NRL	Naval Research Laboratory
NRZ	Non-Return to Zero
NSA	National Security Agency
NSE	National Support Element
NSM	Network & Systems Management
NSN	National Stock Number

NT	New Technology
NTDR	Near Term Data Radio
NTE	Not to Exceed
NV	Night Vision
NVESD	Night Vision Electronic Sensors Directorate
NVG	Night Vision Goggle
O/A	On or About
OAC	Officers Advanced Course
OBS	Out-of-Band Signaling
OC1	Observer Controller; **ALSO:** Operation Control
OCONUS	Outside the Continental United States
OCP	Organizational Concept Plan
ODAP	Officer Development Action Plan
ODS	Officer Development Office
ODU	Organizational Documentation Update
OHN	Occupational Health Nurses
OIPT	Overarching Integrated Process Team
OJE	Operation Joint Endeavor
OJG	Operation Joint Guard
OMA	Operations Maintenance Army
OMSC	Object Management Standards Category
ONS	Operational Needs Statement
OOTW	Operations Other Than War
OP	Observation Post
OPA	Other Procurement Army; **ALSO:** Overarching Partnering Agreement
OPCON	Operational Control
OPLOC	Operating Location
OPNS	Operations
OPO	Operational Performance Objectives
OPOM	Officer Personnel Management System
OPTEC	U.S. Army Operational Test & Evaluation Command
OPTEMPO	Operating Telecommunications Modernization Project
OPTNET	**(trade name for software tool owned by MIL.3 Co.)**
ORA	Operational Requirements Analysis
ORD	Organization Requirements Decrement
ORION	**(code name for System)**
O&S	Operations & Support
OS	Operating System
OSAT	On-Site Acceptance Test
OSCAR	Outside Cable Rehabilitation Program
OSCR	Operating and Support Cost Reduction
OSD	Office of the Secretary of Defense
OSIA	On-Site Inspection Agency
OSPF	Open Shortest Path First
OST	U.S. Army Operational Test & Evaluation Command Systems Team
OT	Operational Test
OTAR	Over the Air Rekeying
OTM	On-The-Move
OTRR	Operational Test Readiness Review
P3I	Pre-Planned Product Improvement
P&M	Producibility And Manufacturing
PACOM	Pacific Command
PAD	Product Assurance Directorate

PADDS	Procurement Automated Data and Document System
PA&I	Planning, Analysis & Integration Directorate
PAP	Personnel Assistance Point; **ALSO:** Product Assurance Plan
PAT	Process Action Team
PBBE	Performance Based Business Environment
PBD	Program Budget Decision
PBG	Program Budget Guidance
PC	Personal Computer
PCD	Platform Compatibility Demonstration
PCMS	Purchase Card Management System
PCS	Permanent Change of Station
PCTCF	Pentagon Technical Control Facility Team
PDS	Protected Distribution System
PED	Production Engineering Division
PEG	Program Element Group
PEO	Program Executive Officer; **ALSO:** Pentagon Engineering Office
PERMS	Personnel Electronic Record Management System
PERS	Personnel
PERSCOM	Personnel Command
PERSTAT	Personnel Status
PFSA	Post-Fielding Support Analysis
PIE	Policy and Information Encyclopedia
PIPE	Product Integrity and Production Engineering
PLGR	Precision Lightweight Global Positioning System Receiver
PLS-E	Palletized Load System - Enhanced
PLT	Production Lead Time
PM	Project Manager
PMCS	Programmable Modular Communications System
PMIT	Project Management Integration Test
PMR	Provisioning Master Record; **ALSO:** Program Management Review
PMSW	Project Manager for Signals Warfare
POC	Point of Contact; **ALSO:** Proof of Concept
POE	Program Office Estimate
POF	Physics Of Failure
POM	Program Objective Memorandum; **ALSO:** Preparation for Overseas Movement
PORT	Portable
POSIX	Portable Operating System based on UniX
POTS/ISDN	Plain Old Telephone System/Integrated Services Digital Network
PPBES	Planning, Programming, Budgeting, and Execution System
PPIMS	Past Performance Information Management System
PPL	Provisioning Parts List
PPSS	Post Production Software Support
PPT	Physical Prototyping Team
PPTP	Point-to-Point Tunneling Protocol
PQA	President's Quality Award
PQT	Prototype Qualification Testing
PRIME	Product Information for Manufacturing Excellence
PROP	Propellant
PRR	Production Readiness Review
PSAB	Prince Sultan Air Base (Saudi Arabia)
PSCCE	Production Satellite Configuration Control Element
PSEMO	Physical Security Equipment Management Office

P-SETS	phones
PSG	Preliminary Study Group
PSL	Program Support-Logistics; **ALSO:** Physical Simulation Laboratory
PSM	Professional Staff Members
PSR	Product Status Review
PSTN	Public Switched Telephone Network
PSYOP	Psychological Operations
PT1S	Primary Tier 1 Segment
PTF	Patch & Test Facility
PTN	Paint The Night
PTT	Protocol Test Tool
PVC	Permanent Virtual Circuit
PVT	Production Verification Testing
PW	Public Works
PWD	Procurement Work Directive
Q&RA	Quality and Reliability Assurance
Q or QTR	Quarter
QA	Quality Assurance
QASAS	Quality Assurance Specialist (Ammunition Surveillance)
QAT	Quality Assurance Team
QDR	Quality Deficiency Report; **ALSO:** Quadrennial Defense Review
QRC	Quick Reaction Capability
QWG	Quadripartite Working Group
RADCON	Army Radiological Control
RAM	Random Access Memory; **ALSO:** Reliability, Availability & Maintainability
RAP	Radiological Assistance Program
RAU	Remote Access Unit; **ALSO:** Radio Access Unit
RCM	Requirements Correlation Matrix
RCO	Radiation Control Officer
RCT	Repair Cycle Time
R&D	Research & Development
RDBMS	Relational Database Management System
RDEC	Research, Development and Engineering Center
RDIT	Replication, Distribution, Installation and Training
RDL	Rapid Deployment Launcher
RDP	Requirements Definition Program
REA	Request for Equitable Adjustment
REBASS	Remotely Monitored Battlefield Sensor System
REC	Record of Environmental Consideration
RF	Radio Frequency
RFI	Request for Information
RFID	Radio Frequency Identification
RFIS	Radio Frequency Interface Subsystem
RFP	Request for Proposal
RFPI	Rapid Force Projection Initiative
RFQ	Request For Quotation
RFPI	Rapid Force Projection Initiative
RISTA	Reconnaissance, Intelligence, Surveillance and Target Acquisition
RIT	Rochester Institute of Technology
R&M	Reliability & Maintainability
RMA	Rocky Mountain Arsenal
RMS	Ride Motion Simulator

ROC-V	Recognition of Combat Vehicles
ROLR	Reject On-Line Re-Entry
RP&FS	Rapid Prototyping & Field Support
RPP	Radiation Protection Program; **ALSO:** Retrograde Processing Point
RPPE	Radiation Protection Program Evaluation
RRAD	Red River Army Depot
RRPR	Reduced Range Practice Rocket
RS	Radiation Status; **ALSO:** Radar Set; **ALSO:** Recommended Standard
RSC	Regional Support Center
RSCCE	Replacement Satellite Configuration Control Element
RSTA	Reconnaissance, Surveillance and Target Acquisition
RTE	Remote Terminal Emulation
RTV	Rapid Terrain Visualization
SA	Security Assistance; **ALSO:** System Administrator; **ALSO:** Situation Awareness
SAAGA	Small Affordable Anti-Jam Global Positioning System Antenna
SAAS	Standard Army Ammunition System
SADARM	Seek And Destroy Armament
SAG	Sub Activity Group; **ALSO:** Study Advisory Group
SAIV	Schedule as an Independent Variable
SAM	Single Agency Manager
SAMD	Security Assistance Management Directorate
SAMS	Standard Army Maintenance System
SAM-T	State of the Art Medium Terminal
SANG	Saudi Arabian National Guard
SAPAS	Standard Army Procurement Accounting System
SAR	Synthetic Aperture Radar
SARDA	Secretary of the Army for Research, Development & Acquisition
SARSAT	Search and Rescue Satellite
SARSS	Standard Army Retail Supply System
SARSS-O	Standard Army Retail Supply System Objective
SAT	System Acceptance Test
SATCOM	Satellite Communications
SAVE	Society of Value Engineers
SAW	Squad Automatic Weapon
SBA	Sustaining Base Automation; **ALSO:** Small Business Administration **ALSO:** Simulation Based Acquisition
SBIR	Small Business Innovative Research
SBIS	Sustaining Base Information System
SBPS	Standard Property Book System
SCAFFIP	Scanning Fast Field Program
SCAMP	Single Channel Anti-Jam Manportable
SCCE	Satellite Configuration Control Element
SCIPUFF	Second-Order Closure Integrated PUFF
SCORE	Southern Command Relocation
SCP	Small Computer Program; **ALSO:** Software Change Package
SCR	Senior Command Representative
SCRA	South Carolina Research Authority
SCSI	Small Computer System Interface
SCTR	Single Channel Transponder Receiver
SCWO	Super Critical Water Oxidation
SDB	Small Disadvantaged Business

SDC	Software Development Center
SDI	Selective Dissemination of Information
SDR	Surrogate Digital Radio
SDS	Standard Depot System
SDT	Software Development Test
SDU	Storage Device Unit
SEALS	Security Equipment And Locking Systems
SEC	Software Engineering Center
SED	Software Engineering Directorate
SEN	Small Extension Node; **ALSO:** System Evaluation Network
SERDP	Strategic Environmental Research And Development Program
SFG	Special Forces Group
SGF	Second Generation FLIR; **ALSO:** Synthetic Ground Facility
SGS	Smoke Generator System
SHA	Space Heater Arctic
S&HDS	Safety and Health Data Sheet
SHF	Super High Frequency
SHS	Space Heater Small
S&I	Surveys and Investigations
SIFO	Systems & Integration & Fielding Office
SINCGARS	Single Channel Ground and Airborne Radio System
SIDPERS	Standard Installation/Division Personnel System
SIGINT	Signal Intelligence
SIL	System Integration Laboratory
SIMITAR	Simulations in Training for Advanced Readiness
SIP	Single Channel Ground and Airborne Radio System Improvement Program
SIPRNET	Secret Internet Protocol Router Network
SIS	Secondary Items Study
SIT	Systems Integration Test
SITREP	Situation Report
SIV	System Integration Van
SKA	Skills, Knowledge, Attributes
SLAD	Survivability Lethality Analysis Directorate
SLAN	Secure Local Area Network
SMA	Supply Management Army
SM-ALC	Sacramento Air Logistics Center
SMART-T	Secure Mobile Anti-Jam Reliable Tactical – Terminal
SMC	Systems Management Center; **ALSO:** Small Multiuser Computer
SMCT	Smart Multi-Circuit Terminal
SMD	Systems Management Directorate
SME	Subject Matter Expert
SMEC	Subject Matter Expert Advisory Committee
SMR	Source, Maintenance and Recoverability
SMRS	Special Mission Radio System
SMSCRC	Standard Multi-User Small Computer Requirements Contract
SMTA	Subordinate Message Transfer Agent
SMU	Switch Multiplexer Unit
SNMP	Small Network Management Protocol
SOF	Special Operations Forces
SOHA	Special Operations & Humanitarian Affairs
SOLE	Society of Logistics Engineers
SOMTE	Soldier, Operator, Maintainer, Tester, and Evaluator
SONET	Synchronous Optical Network

SOP	Standard Operating Procedure
SOR	Statement of Requirements
SORA	Sub-Organizational Registration Authority
SOUTHCOM	Southern Command
SOW	Statement of Work
SPBS-R	Standard Property Book System - Redesign
SPEC	Specifications
SPI	Schedule Performance Index; **ALSO:** Software Process Improvement
SPIRIT	Special Purpose Integrated Remote Intelligence Terminal
SPO	Special Project Officer
SPR	Software Problem Report
SPS	Standard Procurement System
SPT	Support
SR	Senior
SRA	Separate Reporting Activities; **ALSO:** Systems Research & Applications
SRAW	Short Range Antitank Weapon
SRWBR	Short Range Wide Band Radio
S/S	Sole Source
SSAR	Specifications and Standards Acquisition Reform
SSCOM	U.S. Army Soldier Systems Command
SSD	Security Support Division
SSEB	Source Selection Evaluation Board
SSIR	Supply System Inventory Charts
SSL	Software Solutions Laboratory
SSN	Soldier Support Network; **ALSO:** Social Security Number
SSNIRS	Solid State Near IR Sensors
SSR	Supply Support Request
SSS	Single Shelter Switch
SSTS	Standard Systems Technology Support; **ALSO:** Sustainment Systems Technical Support
SSWG	System Safety Working Group
S&T	Space & Terrestrial
S&TCD	Space & Terrestrial Communications Directorate
STACOMP	Standard Army Management Information System Tactical
STAMIS	Standard Army Management Information System
STEP	Standard Tactical Entry Point
STINFO	Scientific and Technical Information
STO	Science and Technology Objective
STOW	Synthetic Theater of War
STRAT	Stratification
STRICOM	U.S. Army Simulation, Training and Instrumentation Command
SUM	Software Users Manual
SVC	Switched Virtual Circuit
SW	Software
SWA	Southwest Asia
SWEATS	Software Engineering and Technical Services
SYS	System
SYSPAC	System Safety Policy Action Committee
T1	**(type of communications line)** Standard digital line service; Provides transmission rates of 1.544 Mbps and carries both voice and data

T3	Tri-Band Tactical Terminal
TA	Technical Assessment
TAADS	The Army Authorization Document System
TACFIRE	Tactical Fire
TACMIS	Tactical Management Information Systems
TACMS	Tactical Missile System
TACOM	U.S. Army Tank-Automotive and Armaments Command
TACSTAT	Tactical Satellite
TADS	Target Acquisition and Designation System
TAFIM	Technical Architecture Framework for Information Management
TAR	Technical Acceptance Recommendation
TASC	The Analytic Sciences Corporation
TB	Technical Bulletin
TBD	To Be Determined
TBM	Theater Battle Management; **ALSO:** Tactical Ballistics Missiles
TC	Type Classification
TC-AIMS II	Transportation Coordinators' Automated Information for Telecommunications
TCCC	Terrestrial Critical Control Circuit
TCCCS	Tactical Command, Control and Communications System
TCF	Technical Control Facility
TCO	Tactical Combat Operations; **ALSO:** Total Cost of Ownership
TCP	Transmission Control Protocol
TDA	Table of Distribution and Allowances
TDMD	Technical Data Management Division
TDP	Technical Data Package
T&E	Test & Evaluation
TECH	Technical; **ALSO:** Technology
TECNET	Test & Evaluation Community Network
TECOM	U.S. Army Test and Evaluation Command
TEED	Tactical End-to-End Encryption Device
TEF	Thermoelectric Fan
TEMOD	Test Equipment Modernization
TEMPO	Telecommunications Modernization Project
TES	Tactical Engagement Simulation
TESAR	Tactical Endurance Synthetic Aperture Radar
TEXCOM	Test and Experimentation Command
TF	Task Force
THAAD	Theater High Altitude Area Defense
TI	Technical Insertion; **ALSO:** Tactical Internet; **ALSO:** Thermal Imagery
TIC	Technology Integration Center; **ALSO:** Tactical Internet Center
TID	Target Impact Dispersion
TIGER	Tactical Intelligence Generation and Evaluation Relay
TILO	Technical Industrial Liaison Office
TIREM	Terrain Integrated Rough Earth Model
TITAN	Tactical Internet Test and Analysis
TIWG	Test Integration Working Group
TLOS	Target Location and Observation System
TM	Technical Manual
TMDE	Test, Measurement and Diagnostic Equipment
TMM	Thomson-Thorn Missile Electronics Limited
TMS	Tactical Message Switch
TNCC	TROJAN Network Control Center
TOA	Total Obligation Authority

TOAS	Technology Opportunities Analysis System
TOC	Tactical Operations Center; **ALSO:** Training Operation Center
TOD	Technical Objective Document
TPRISM	U.S. Army Training and Doctrine Command Plan to Re-Engineer Information System Modernization
TPS	Test Program Sets
TQG	Tactical Quiet Generator
TRADOC	U.S. Army Training and Doctrine Command
TRAPS	Template Review And Analysis For Performance Specifications
TRCS	Tactical Radio Communications System
TRDI	Technical Research and Development Institute
TRI-TAC	Tri-Services Tactical Communications
TRM	Training Resource Model
TROJAN	**(Intelligence & Electronic Warfare System)**
TROPO	Troposcatter
TS	Top Secret
TSII	Trojan Spirit II
TSACS	Terminal Server Access Control System
TSD	Transmission Systems Directorate
TSF	Tactical Support Facility
TSN	Test Support Network
TSO	Technical Support Office
TSS	Tactical Switched Systems; **ALSO:** Target Sensing Systems
TST	Tactical Signal Intelligence Technology
TSWG	Technical Support Working Group
TTC	Tropic Test Center
TTP	Tactics, Techniques and Procedures
TWS	Thermal Weapon Sight
TWT	Traveling Wave Tube
TYAD	Tobyhanna Army Depot
U	Umbrella
UAV	Unmanned Aerial Vehicle
UCO	Uncommitted Obligation
UDP	User Datagram Protocol
UFD	User Functional Description
UFR	Unfunded Requirement
UHF	Ultra High Frequency
UGV	Unmanned Ground Vehicle
UIC	Unit Identification Code
ULLS	Unit Level Logistics System
UMS	Universal Modem System
UNIFIL	United Nations Interim Force
UPS	Uninterruptable Power Supply
USAADSCH	U.S. Army Air Defense Artillery School
USACE	U.S. Army Corps of Engineers
USARSO	United States Army South
USASAC	U.S. Army Security Assistance Command
USASC	United States Army Safety Center
USASOC	U.S. Army Special Operations Command
USDA	United States Department of Agriculture
USMA	United States Military Academy
USMC	United States Marine Corps
UTP	Uninterrupted Power Supply

UV	Unmanned Vehicle; **ALSO:** Ultra Violet
VCO	Value Concepts Office
VCSA	Vice Chief of Staff of the Army
VE	Value Engineering
VECP	Value Engineering Change Proposal
VHF	Very High Frequency
VHFS	Vint Hill Farms Station
VIE	Virtual Integration Exercise
VIS	Vehicular Intercommunication System
VM	Value Management
VMF	Variable Message Format
VMMD	Vehicle Mounted Mine Detector
VMO	Value Management Office
VMP	Value Management Program
VOX	Voice Operated Xmit
VPSB	Virtual Parts Supply Base
VRTA	Vibration Reduction Test Aircraft
VS	Virtual Single
VSAM	Video Surveillance and Monitoring
VTC	Video Telecommunications; **ALSO:** Video Teleconference
V&V	Validation & Verification
WAN	World Area Network; **ALSO:** Wide Area Network
WARS	Worldwide Ammunition Reporting System
WBS	Work Breakdown Structure
WFA	Warfighter Associate
WINCASS	Windows Compliance Assessment and Sustainment System
WIN-T	Warfighter Information Network - Terrestrial
WIPT	Working Integrated Product Team
WIT	Wireless Interworking Testbed; **ALSO:** Warhead Impact Target
WITS	Washington Interagency Telecommunications System
WLAN	Wireless Local Area Network
WO	Warrant Officer
WORCS	Work Order Reporting and Communication Systems
WP	Will Proceed; **ALSO:** Working Party; **ALSO:** Westpac
WRAP	Warfighter Rapid Acquisition Program
WS	Workstation; **ALSO:** Weapon System
WSMR	White Sands Missile Range
WSMS	Warrior Systems Modernization Strategy
WSOLOP	Workstation On-Line Operational Software
WWW	World Wide Web
Y2K	Year 2000
YG	Year Group