

**NAVAL AVIATION SYSTEMS**

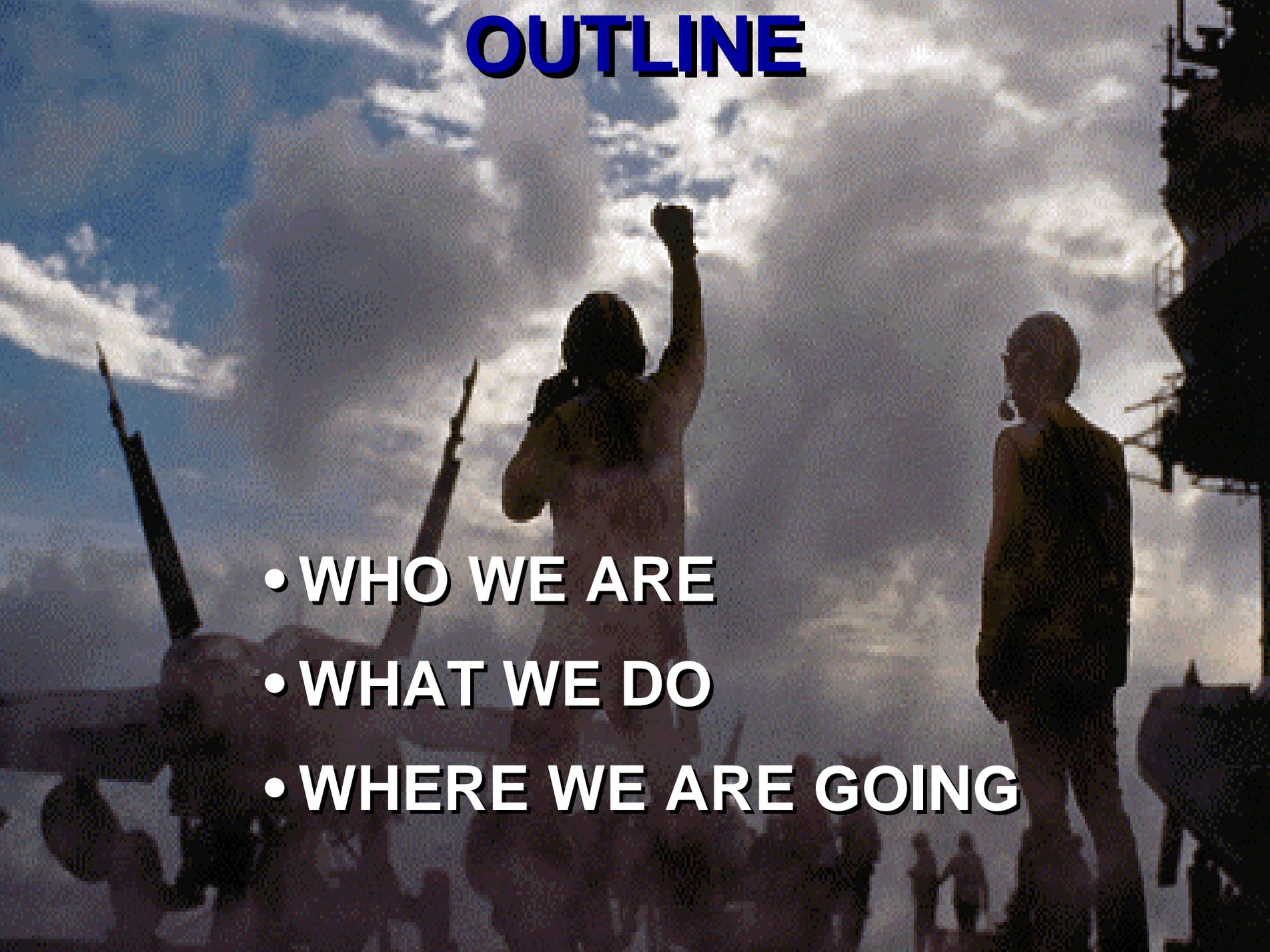
**TEAM**



**ADVANCE PLANNING BRIEFING TO  
INDUSTRY**

**RADM JEFFREY A. COOK  
VICE COMMANDER, NAVAL AIR SYSTEMS COMMAND  
10 APRIL 2001**

# OUTLINE

The background of the slide is a photograph showing the silhouettes of several people on the deck of a ship. The sky is filled with large, white, fluffy clouds, and the sun is low on the horizon, creating a bright, hazy glow. In the center, a person stands with their back to the camera, their right arm raised in a fist. To the right, another person stands facing the camera. In the foreground, the silhouettes of other people and parts of the ship's structure are visible, including what appears to be a large antenna or mast on the left side.

- WHO WE ARE
- WHAT WE DO
- WHERE WE ARE GOING

# WHO WE ARE



# REPORTING RELATIONSHIPS

**ASN (RD&A)**  
**ASSISTANT SECRETARY OF THE NAVY**  
 (RESEARCH, DEVELOPMENT AND ACQUISITION)  
 Mr. PAUL SCHNEIDER (Acting)  
 703-695-6315

**CNO**  
**CHIEF OF NAVAL OPERATIONS**  
 ADM V. CLARK  
 703-695-5664

**NAVSUP**  
**NAVAL SUPPLY SYSTEMS COMMAND**  
 RADM K. LIPPERT  
 717-605-3433

OPERATING AGREEMENT

**NAVAL AIR SYSTEMS COMMAND HEADQUARTERS**  
 PATUXENT RIVER  
**COMMANDER**  
 VADM J. DYER  
 AIR-00  
 301-757-7825

**VICE COMMANDER**  
 RADM J. COOK  
 AIR 09/8.0  
 301-757-7825

**DEPUTY COMMANDER**  
 DR. A. SOMOROFF  
 AIR-00A  
 301-757-7825

**NAVICP**  
**NAVAL INVENTORY CONTROL POINT**  
 RDML M. FINLEY  
 215-697-2101

**PEO (T)**  
**TACTICAL AIRCRAFT PROGRAMS**  
 RDML J. GODWIN  
 301-757-6374

**PEO (A)**  
**AIR ASW, ASSAULT & SPECIAL MISSION PROGRAMS**  
 RDML S. ENEWOLD  
 301-757-5376

**PEO (W)**  
**STRIKE WEAPONS & UNMANNED AVIATION**  
 MR. TOM LAUX (Acting)  
 301-757-6332

**PEO (JSF)**  
**JOINT STRIKE FIGHTER**  
 MAJ GEN M. HOUGH (USMC)  
 703-602-7640

**PROGRAM EXECUTIVE OFFICES**

**AIR-1.0**  
**PROGRAM MANAGEMENT ACQUISITION EXEC**  
 MR. W. BALDERSON  
 301-757-6631

**AIR-2.0**  
**CONTRACTS**  
 ASST. COMMANDER  
 CAPT R. COWLEY  
 301-757-7858

**AIR-3.0**  
**LOGISTICS**  
 ASST. COMMANDER  
 RDML W. MASSENBURG  
 301-757-8435

**AIR-4.0**  
**RESEARCH & ENGINEERING**  
 ASST. COMMANDER  
 RDML T. HEELY  
 301-342-1100

**AIR-5.0**  
**TEST & EVALUATION**  
 ASST. COMMANDER  
 RDML C. JOHNSTON  
 760-939-2201

**AIR-6.0**  
**INDUSTRIAL OPERATIONS**  
 ASST. COMMANDER  
 RDML S. HEILMAN  
 301-757-8440

**AIR-7.0**  
**CORPORATE OPERATIONS**  
 ASST. COMMANDER  
 MS. P. O'DELL  
 301-757-7790

**AIR-8.0**  
**SHORE STATION MANAGEMENT**  
 ASST. COMMANDER  
 MR. M. FISH  
 301-757-2101

## NAVAIR HEADQUARTERS

**NAVAL AIR TECHNICAL DATA AND ENGINEERING SERVICE COMMAND (NATEC)**  
 NORTH ISLAND  
 COMMANDING OFFICER  
 CDR J. TUNG  
 619-545-2360

**AIRCRAFT DIVISION (NAWCAD)**  
 PATUXENT RIVER  
 COMMANDER  
 RDML T. HEELY  
 301-342-1100

**WEAPONS DIVISION (NAWCWD)**  
 CHINA LAKE  
 COMMANDER  
 RDML C. JOHNSTON  
 760-939-2201

**NAVAL AIR STATION (NAS)**  
 PATUXENT RIVER  
 COMMANDING OFFICER  
 CAPT P. HOVATTER  
 301-342-1020

**TRAINING SYSTEMS DIVISION (NAWCTSD)**  
 ORLANDO  
 COMMANDING OFFICER  
 CAPT D. GAGNON  
 407-380-8238

**NAVAL AIR WEAPONS STATION (NAWS)**  
 CHINA LAKE  
 COMMANDING OFFICER  
 CAPT J. SEAMAN  
 760-939-2211

**NAVAL TEST WING ATLANTIC**  
 PATUXENT RIVER  
 COMMANDER  
 COL E. FRASER  
 301-342-1113

**NAVAL AIR ENGINEERING STATION (NAES)**  
 LAKEHURST  
 COMMANDING OFFICER  
 CAPT S. HIMES  
 732-323-2380

**NAVAL TEST WING PACIFIC**  
 PT MUGU  
 COMMANDER  
 CAPT M. SWANEY  
 805-989-8763

**NAVAL AVIATION DEPOT (NADEP)**  
 NORTH ISLAND  
 COMMANDING OFFICER  
 CAPT E. CHENOWETH  
 619-545-2200

**NAVAL AVIATION DEPOT (NADEP)**  
 JACKSONVILLE  
 COMMANDING OFFICER  
 CAPT C. ROUM  
 904-542-2612

**NAVAL AVIATION DEPOT (NADEP)**  
 CHERRY POINT  
 COMMANDING OFFICER  
 COL G. JACKSON  
 252-464-7000

**NAVAL AIR PACIFIC REPAIR ACTIVITY (NAPRA)**  
 ATSUGI, JAPAN  
 COMMANDING OFFICER  
 CDR D. FREER  
 DSN 264-3160

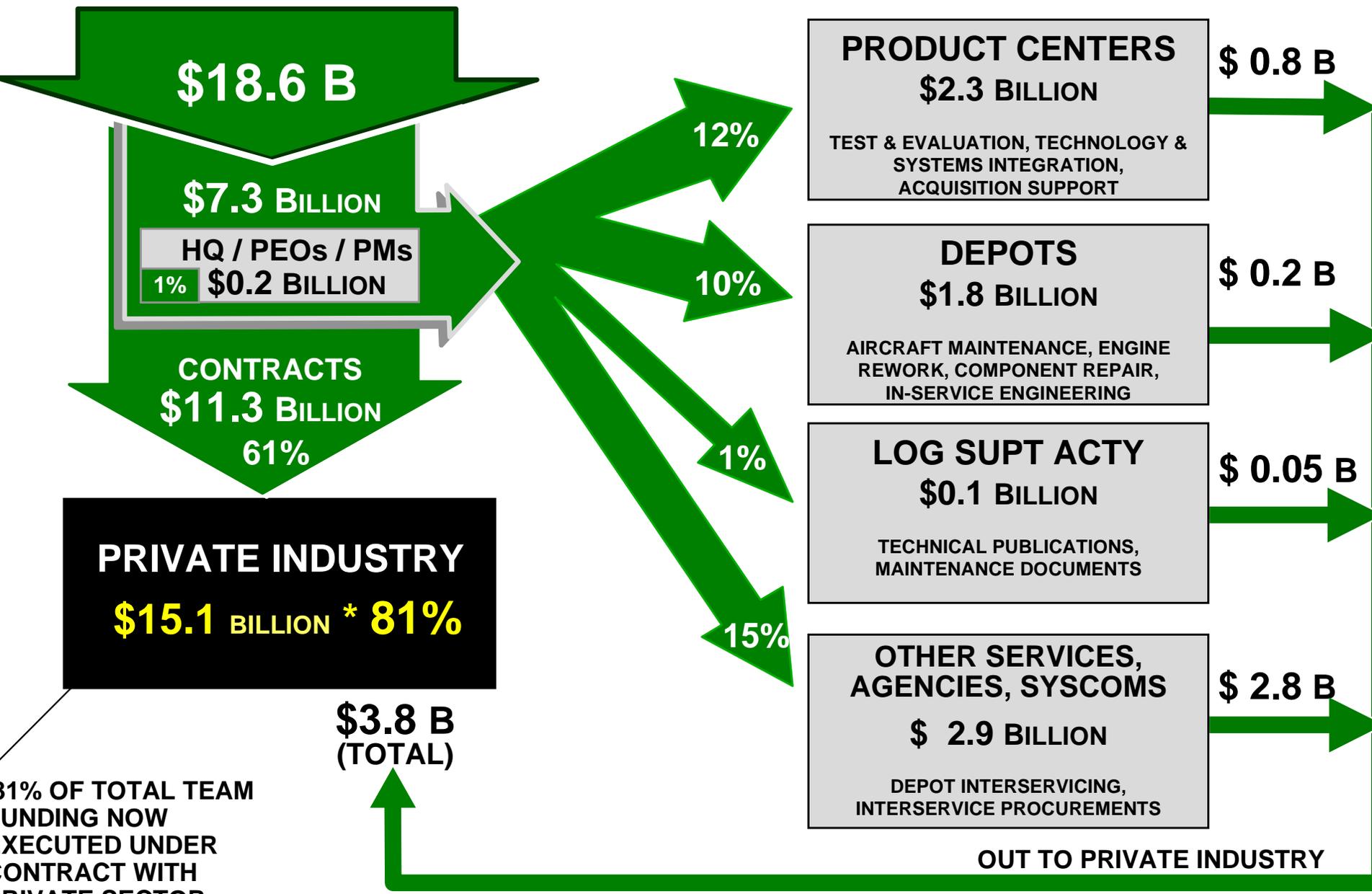
LOGISTICS SUPPORT

PRODUCT CENTERS

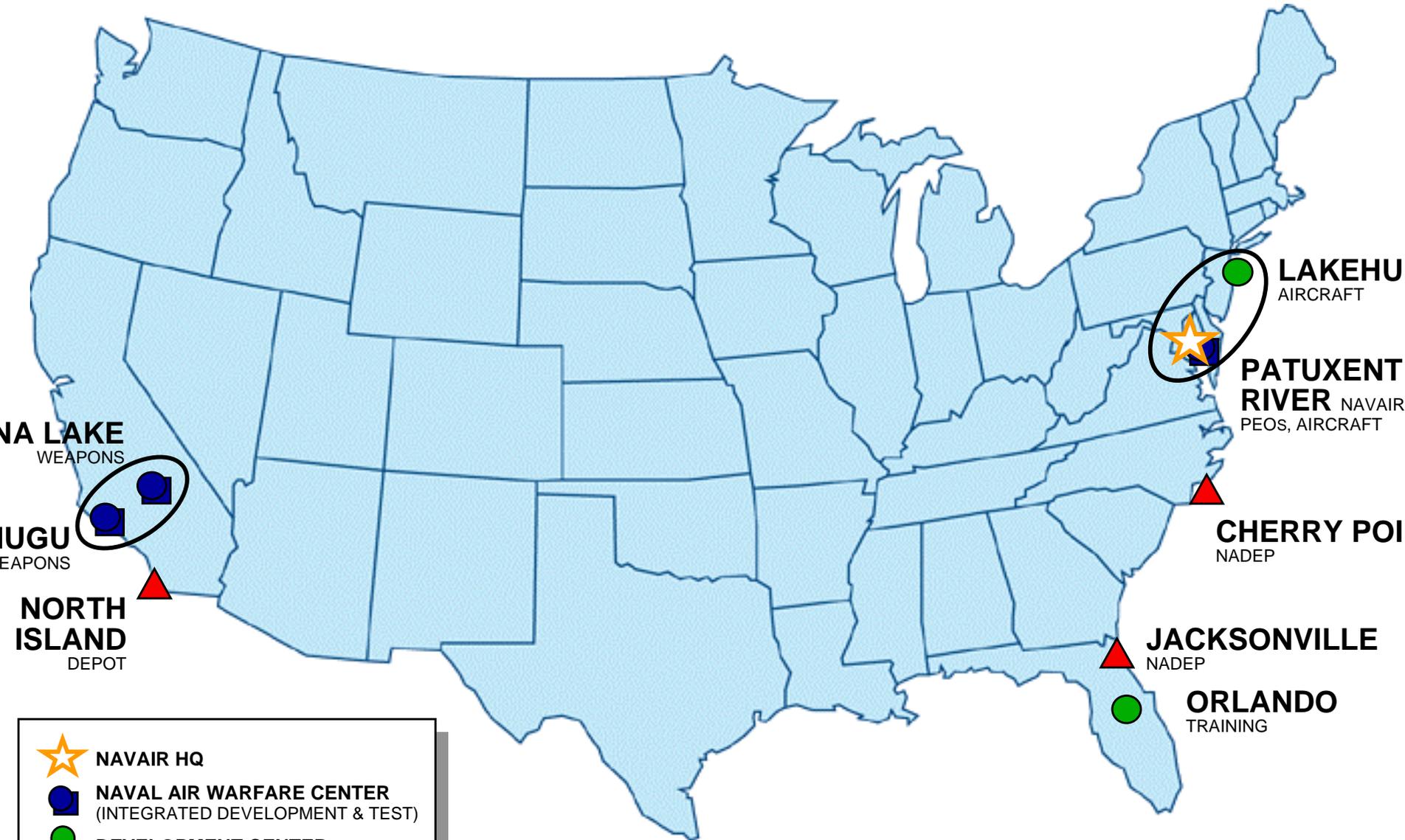
NAVAL



# MACRO CASH FLOW PLAN



# NAVAIR MAJOR SITES



-  NAVAIR HQ
-  NAVAL AIR WARFARE CENTER (INTEGRATED DEVELOPMENT & TEST)
-  DEVELOPMENT CENTER
-  NAVAL AVIATION DEPOT

# WHAT WE DO

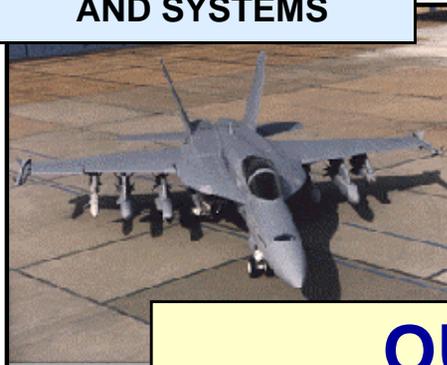




# OUR PRODUCTS ...

## ... MORE THAN AIRCRAFT AND WEAPONS, TOTAL SYSTEM CAPABILITY AND SUSTAINMENT

**SEA BASED AIRCRAFT  
AND SYSTEMS**



**MARITIME WEAPONS**



**MARINE EXPEDITIONARY  
AVIATION SYSTEMS**



**R ASW / ASUW**



**CREW / MAINTENANCE  
TRAINING SYSTEMS**



# OUR CORE PROCESSES ...

... WE EXECUTE (IN BEHALF OF THE USER)

### ACQUISITION MANAGEMENT

PERFORM ACQUISITION MANAGEMENT FOR THE DEVELOPMENT, PRODUCTION, AND IN-SERVICE SUPPORT OF AIRCRAFT AND WEAPONS SYSTEMS

### TEST AND EVALUATION

TEST AND EVALUATE AIRCRAFT, WEAPONS AND INTEGRATED SYSTEMS

### REPAIR / MODIFICATION

PROVIDE FOR THE REPAIR AND / OR MODIFICATION OF AIRCRAFT, ENGINES, SYSTEMS AND COMPONENTS

### IN-SERVICE ENGR & LOGISTICS SUPPORT

PROVIDE FOR IN-SERVICE ENGINEERING AND LOGISTICS SUPPORT

### TECHNOLOGY, R&D, HW / SW PRODUCTS

CONDUCT EFFORTS FOCUSED ON THE ADVANCEMENT OF TECHNOLOGY, RESEARCH AND DEVELOPMENT AND DELIVERY OF SOFTWARE / HARDWARE PRODUCTS

### SUPPORT OPERATIONS

DEVELOP / MAINTAIN COMPETENCY POLICIES, PROCEDURES & SUPPORT SERVICES. FACILITATE EFFECTIVE UTILIZATION OF INFRASTRUCTURE, SECURITY, LEGAL, FINANCIAL, HUMAN & INFORMATION RESOURCES



# WHAT WE DELIVERED IN FY00

<b>95</b>	<b>AIRCRAFT DELIVERED</b>
<b>636</b>	<b>MISSILES (AUR) DELIVERED</b>
<b>148</b>	<b>TARGETS</b>
<b>9,000</b>	<b>CONTRACT ACTIONS</b>

## **NADEPs / COMMERCIAL / INTERSERVICE / FMS**

<b>434</b>	<b>AIRCRAFT DEPOT LEVEL MAINTENANCE</b>
<b>810</b>	<b>AIRCRAFT CONDITION INSPECTIONS (ASPAs / ACIs)</b>
<b>4,330</b>	<b>IN-SERVICE REPAIRS (NADEPS ONLY)</b>
<b>1,569</b>	<b>ENGINE REPAIRS</b>
<b>119,317</b>	<b>COMPONENT REPAIRS (NADEPS ONLY)</b>

## **NAPRA**

<b>32</b>	<b>AIRCRAFT SDLM</b>
<b>853</b>	<b>COMPONENT REPAIRS</b>
<b>639</b>	<b>IN-SERVICE REPAIRS</b>

# TRAINING SYSTEMS DIVISION (TSD) ORLANDO





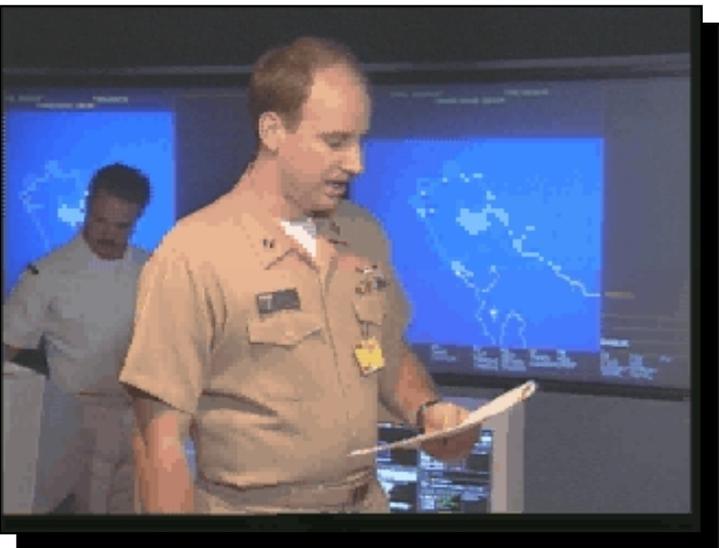
# TRAINING SYSTEMS DIVISION (TSD) ORLANDO



- TRAINING SYSTEMS RDT&E, ACQUISITION AND PRODUCT SUPPORT
- INSTRUCTIONAL SYSTEMS DESIGN OF TRAINING SYSTEM REQUIREMENTS
- RESEARCH IN TECHNOLOGIES AND IMPROVED SIMULATION AND TRAINING METHODOLOGIES
- STANDARDS DEVELOPMENT FOR TRAINING SYSTEMS
- MULTIMEDIA TRAINING AIDS
- SIMULATION AND TRAINING TECHNOLOGY TRANSFER
- CONTINUOUS LEARNING AND HUMAN PERFORMANCE SOLUTIONS



# TEAM DIMENSIONAL TRAINING (TDT)



- TDT IS A METHOD OF PRE- AND DE-BRIEFING TEAMS, STRUCTURED AROUND A TEAMWORK MODEL
- TEAM MEMBERS IDENTIFY PROBLEMS AND DEVELOP PERFORMANCE SOLUTIONS
- IMPROVES COMMUNICATION, SUPPORTING BEHAVIOR AND LEADERSHIP
- IMPROVES DECISION MAKING ACCURACY
- REDUCES TACTICAL VIOLATIONS



# ON-LINE TECHNICAL BULLETIN



- **ON-LINE TECHNICAL BULLETINS USE MULTIMEDIA TO PROVIDE A BETTER UNDERSTANDING OF COMPLEX AVIATION MAINTENANCE PROCEDURES**

# SELECT AVIATION PROGRAMS





# F/A-18 HORNET

- **F/A-18E/F: FIRST CLASS WARFIGHTER**

- ATFLIR, SHARP, MIDS, AMC, AESA, AIM-9X, JHMCS

- **F/A-18A/C/D**

- ATFLIR, XN-8, ARC 210, GPS / DCS, MIDS
- ECP-583
- CENTER BARREL REPLACEMENT



# JOINT DIRECT ATTACK MUNITIONS



- ACCURATE GUIDANCE CAPABILITY IN ADVERSE WEATHER
- INTEGRATED ON EXISTING UNGUIDED WEAPONS
- LOW UNIT COST
- IN-FLIGHT CAPTIVE CARRIAGE RETARGETING CAPABILITY
- COMPATIBLE WITH F/A-18 C/D/E/F, F-14B/D, AV-8B, S-3, P-3



# E-2C HAWKEYE

## HAWKEYE 2000

- FLEET INTRODUCTION WITH CVW-11 IN FY02
- MISSION COMPUTER UPGRADE
- COOPERATIVE ENGAGEMENT CAPABILITY (CEC)
- FIRST DEPLOYMENT ON NIMITZ WITH CVW-11 IN 2003



## RADAR MODERNIZATION PROGRAM

- TECHNOLOGY DEMONSTRATION PROGRAM
- RADAR WILL FLY ON A C-130 LATE SUMMER 2001

## 8-BLADED PROPELLER INTRODUCTION IN FY02



# ARMED HELICOPTERS

- **SH-60R / CH-60S KEY TO MARITIME DOMINANCE**

- ANTI-SUBMARINE WARFARE
- ANTI-SURFACE WARFARE
- AIRBORNE MINE COUNTER-MEASURES
- BATTLE GROUP LOGISTICS
- COMBAT SEARCH AND RESCUE
- NAVAL SPECIAL WARFARE



- **COMMANDER SECOND FLEET STUDY**

- RE-EXAMINE SH60R / CH60S AIR WING ASSIGNMENTS



# AIM-9X WEAPON SYSTEM

**F-22**



**F/A-18 E/F**



**F-16**



**F/A-18 C/D**

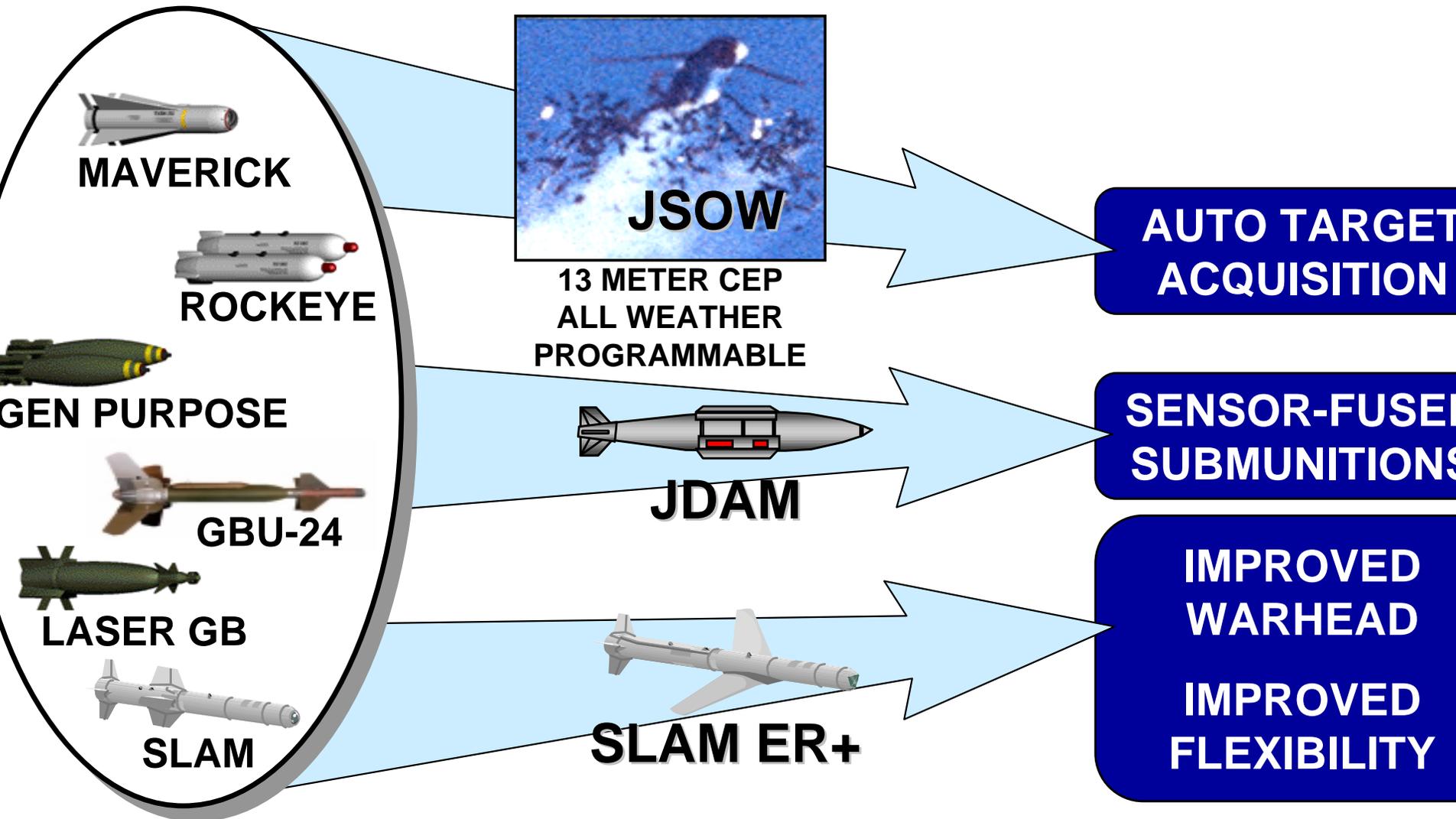


**F-15C**





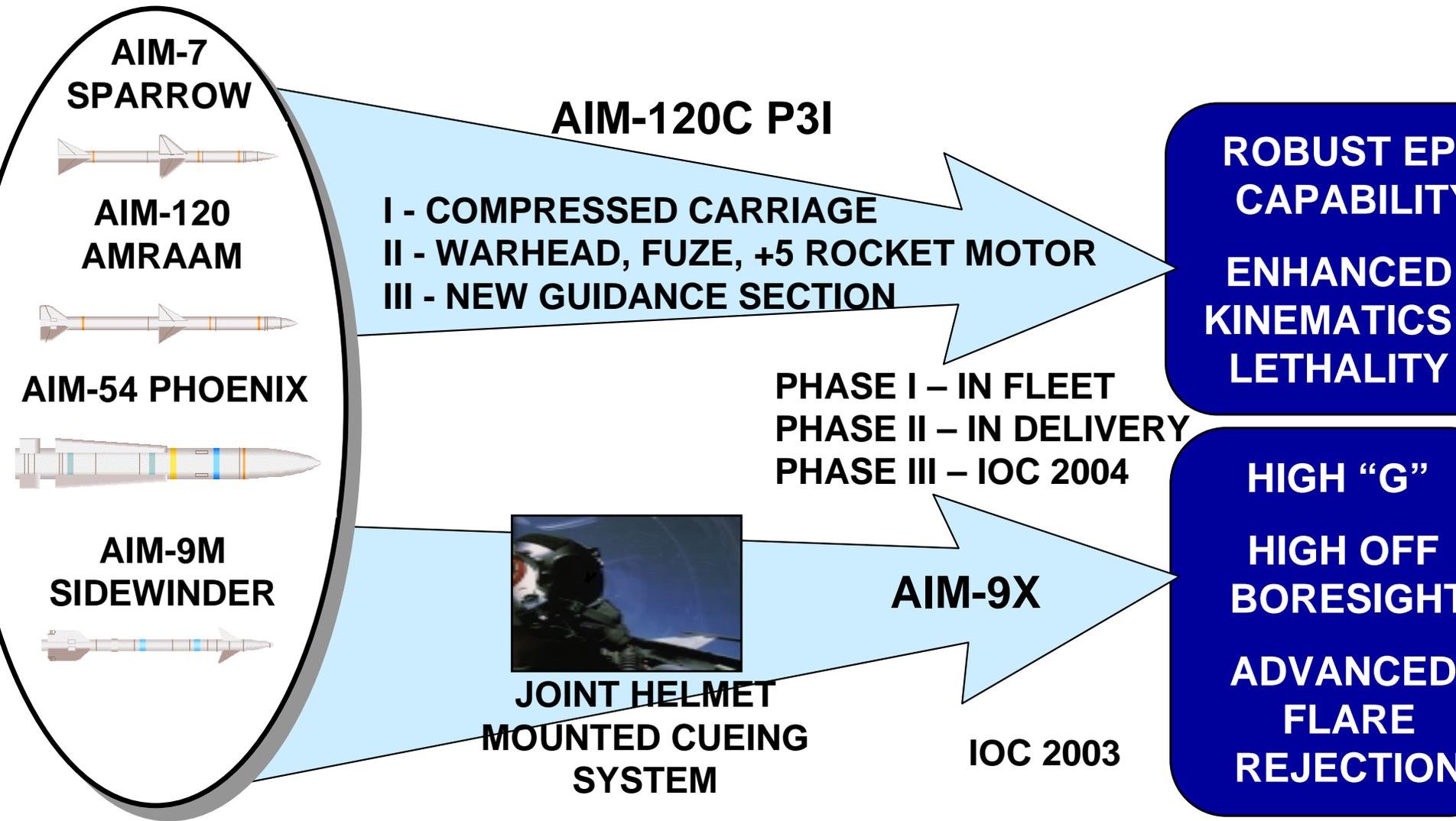
# STRIKE WEAPONS ROADMAP



**PRECISION / ALL-WEATHER / STAND-OFF / SURVIVABILITY**



# AIR-TO-AIR WEAPONS ROADMAP



# WHERE WE ARE GOING



# 21<sup>st</sup> CENTURY TRANSFORMATION

- **REVOLUTION IN STRIKE WARFARE**
- **JSOW / JDAM / SLAM-ER**
- **SUPER HORNET, JSF, MV-22**
- **CVNX**
- **COOPERATIVE ENGAGEMENT CAPABILITIES  
AND RADAR MODERNIZATION PROGRAM**
- **NETWORK CENTRIC WARFARE**
- **TIME CRITICAL STRIKE**
- **UAVs AND UCAVs**





# NETWORK CENTRIC WARFARE



# FUNDAMENTAL TRENDS

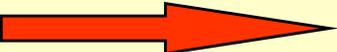
## **INFORMATION TECHNOLOGY**

PLATFORM-CENTRIC  NETWORK-CENTRIC COMPUTING

*THE INTERNET*

*TECHNOLOGY CREATES OPPORTUNITIES*

## **BUSINESS**

COMPANY-CENTRIC  NETWORK-CENTRIC OPERATIONS

*E-COMMERCE*

*FOR ORGANIZATIONAL AND BEHAVIORAL CHANGE*

## **WARFARE**

PLATFORM-CENTRIC  NETWORK-CENTRIC WARFARE



# NETWORKING THE FORCE

## LAND - SEA

### ENGAGEMENT NETWORK

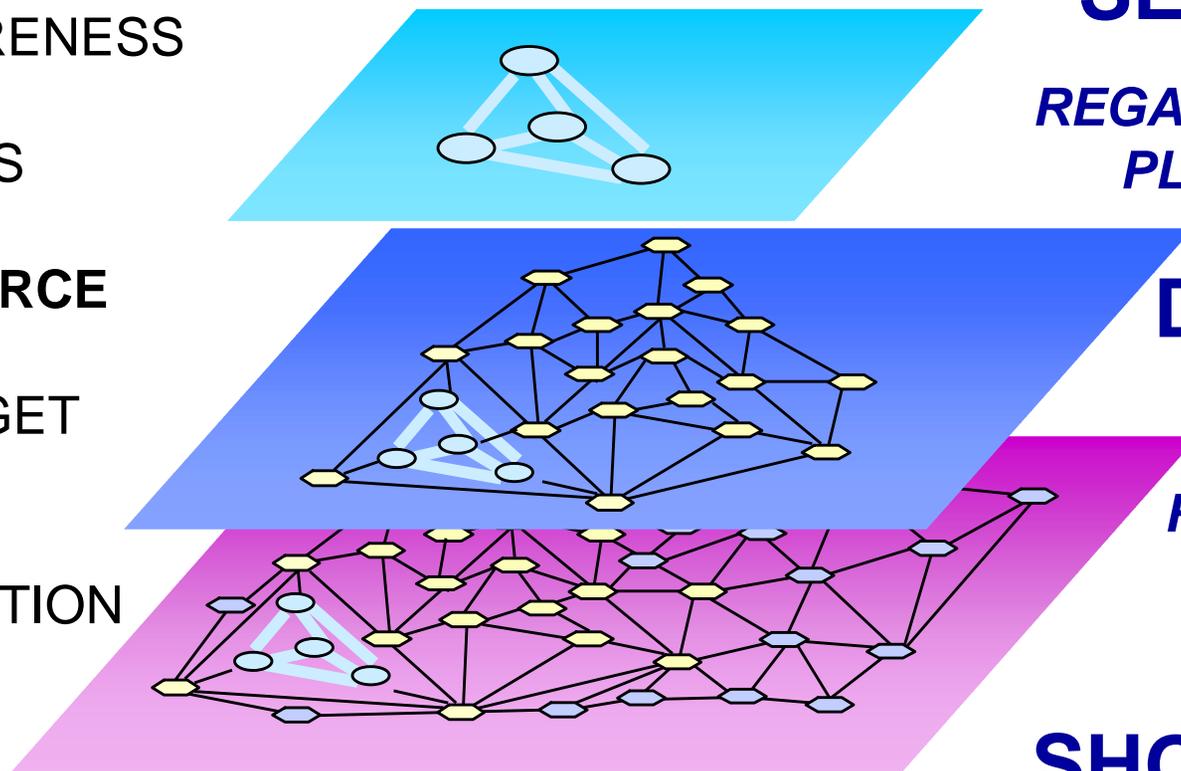
- SHARED AWARENESS
- INCREASED ENGAGEMENTS

### EFFICIENT RESOURCE ALLOCATION

- WEAPON-TARGET PAIRING
- SELF-SYNCHRONIZATION

### MULTI-SERVICE SOLUTION

- COORDINATION AT "THE SEAMS"



## SENSORS

*REGARDLESS OF PLATFORM*

## DECISION MAKER

*REGARDLESS OF LOCATION*

## SHOOTERS

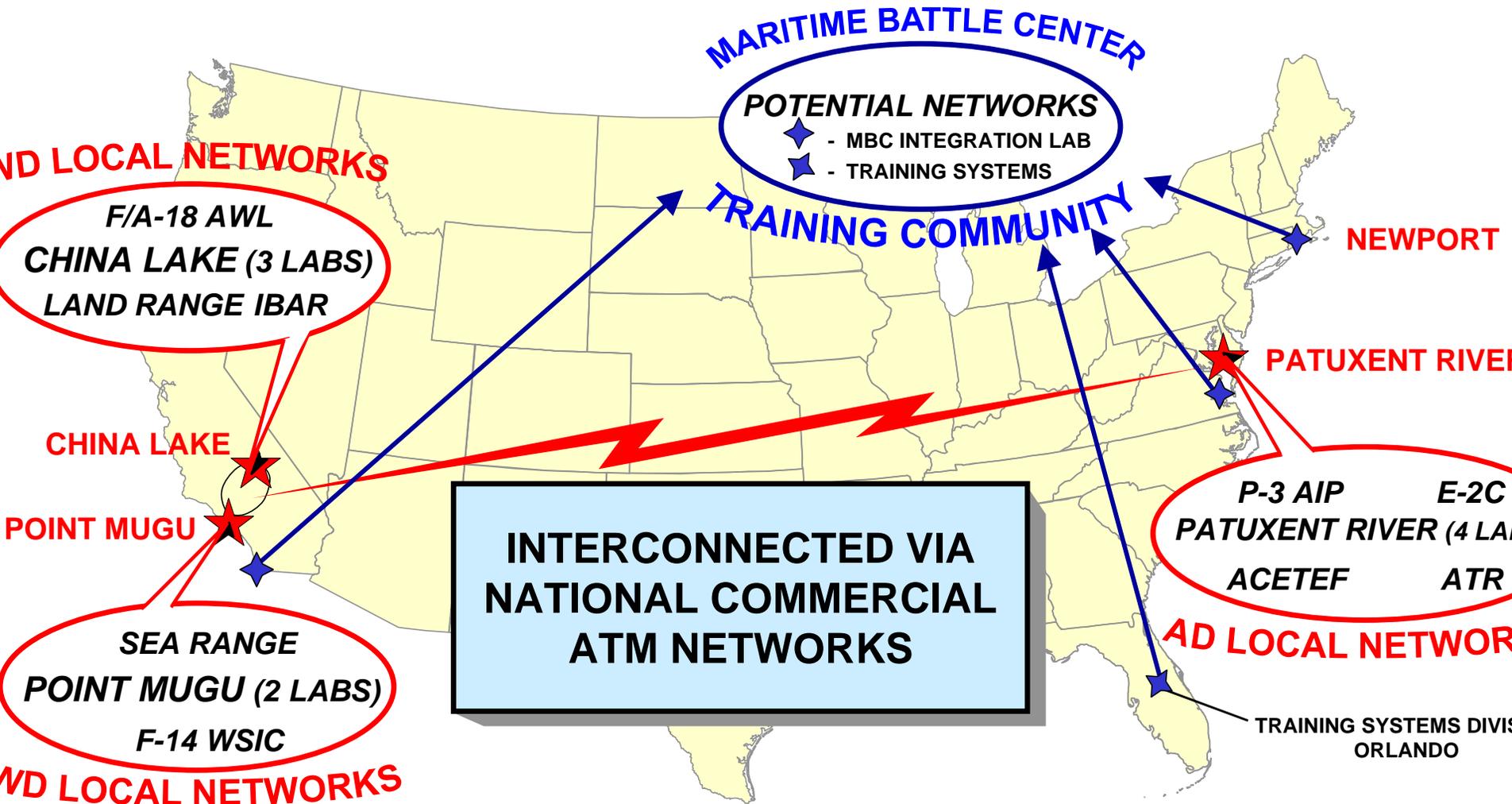
*REGARDLESS OF SERVICE*



# 21<sup>st</sup> CENTURY BATTLESPACE



# NAVAIR NETWORK CENTRIC WARFARE RDT&E NETWORK INITIATIVE – BASELINE



AWL - ADVANCED WEAPONS LABORATORY  
 IBAR - INTEGRATED BATTLESPACE ARENA  
 WSIC - WEAPONS SYSTEM INTEGRATION CENTER

ACETEF - AIR COMBAT ENVIRONMENT TEST & EVALUATION FACILITY  
 AIP - ANTI SURFACE WARFARE IMPROVEMENT PROGRAM  
 ATR - ATLANTIC TEST RANGE



# NAVAIR NETWORK CENTRIC WARFARE



***SEE THE WORLD  
THROUGH THE FLEET'S EYES,  
AND MEASURE OUR SUCCESS  
BY THEIR SUCCESS***

