BRIEF OUTLINE

• AIR-1.0 ORGANIZATION
• PROGRAMS – ACQUISITION PHASES
• ROADMAPS
• OPPORTUNITIES
• Q & A
Globally Enabling Warfighter & Support Services

- Computer Consolidation
- Network Consolidation
- Information Assurance
- Interoperability
FROM DOCTINE TO BATTLESPACE CAPABILITIES

**Doctrine**
- JV2020
- OPNAV vision
- NAVAIR vision
- Forward from the Sea
- Operational Maneuver from the Sea
- Future Naval Capabilities
- Navy Strategic Planning Guide

**Requirements**
- MNS ORD / CRD Mandates
- Radios Data Links
- Safety Sys GPS/INS IFF
- Civil ATM JTRS / JTA ISP NCW

**Acquisition**

**Fielded Battlespace Capabilities**

**Network Centric Warfare**
- War Fighter Situational Awareness
- Rapid Joint Command & Control & Decision Making at all Levels
- Faster Reconnaissance, Targeting, Planning and Rehearsal
- Interoperable, Secure, Anti-Jam, Line of Sight and Over the Horizon
- Voice & Data Connectivity
NAVAIR PROGRAMS (AIR-1.0)

38 ACAT / MAJOR PROGRAMS
4 ACAT II (+ 2 ACAT II Equivalent)
8 ACAT III
21 ACAT IV (+3 Pre-ACAT)
+ 49 AAP

• COMMON MOBILE AIRCREW RESTRAINT SYSTEM (CMARS)
• COMMON AVIONICS DISPLAY (CAD)
• C/KC-130 DECM (OSIP) AIRCRAFT SURVIVABILITY EQUIPMENT
• ADVANCED ARRESTING GEAR (AAG)
• TACTICAL COMBAT TRAINING SYSTEMS (TCTS)
• C/KC-130T AVIONICS MODERNIZATION PROGRAM (AMP)
• ELECTROMAGNETIC AIRCRAFT LAUNCH SYSTEM (EMALS)
• COMMUNICATION, NAVIGATION, SURVEILLANCE/AIR TRAFFIC MANAGEMENT (CNS/ATM)
• MILITARY FLIGHT OPERATIONS QUALITY ASSURANCE (MFOQA)
• ADVANCED MISSION COMPUTER AND DISPLAY (AMC&D)
• KC-130J
• JOINT HELMET MOUNTED CUEING SYSTEM (JHMCS)
• COMBAT SURVIVOR EVADER LOCATOR (CSEL)
• AIR NAVIGATION WARFARE (NAVWAR)
• JOINT PROTECTIVE AIRCREW ENSEMBLE (JPACE)
• LOW PROBABILITY OF INTERCEPT ALTIMETER (LPIA)
• JOINT ADVANCED LASER EYE PROTECTION VISOR (JALEPV)
• CH-46 ENGINE RELIABILITY IMPROVEMENT PROGRAM (ERIP)
• ATE OFFLOAD TO CASS
• MID RANGE TOW TRACTOR
• HYDRAULIC POWER SUPPLY
• ADVANCED RECOVERY CONTROL (ARC)
• MORIAH WIND SYSTEM
• CONSOLIDATED AUTOMATED SUPPORT SYSTEM (CASS)
• NAVY COMMON EJECTION SEAT (NACES)
• TACTICAL AIRCRAFT MOVING MAP CAPABILITY (TAMMAC)
• ARC-210
• EMBEDDED GLOBAL POSITIONING SYSTEM/INERTIAL NAVIGATION SYSTEM (EGI)
• TRAFFIC ALERT & COLLISION AVOIDANCE SYSTEM (TCAS)
• AVIATION DATA MANAGEMENT & CONTROL SYSTEM (ADMACS)
• GROUND PROXIMITY WARNING SYSTEM (GPWS)
• COMPUTER BASED TRAINING (CBT)
• CRASH SURVIVABLE FLIGHT INCIDENT RECORDER (CSFIR)
• C-37
• MSU-200 NAV AIR START UNIT
• UNDERSEA WARFARE TRAINING RANGE (USWTR)
• ADVERSARY F-5
• C-40A

JOINT PROGRAM / MAJOR NON-ACAT PROGRAM / PRE-ACAT
OPPORTUNITIES
Technology Areas

• Deployable Intelligent Projection Systems for Training
• High Performance/Reliability Display Backlighting
• Improved Catapult Performance Monitoring Through Advanced Cylinder Elongation Measurement Techniques
• Advanced Automatic Test System (ATS) Application Development Environment
• Real Time Modeling of Rotor Induced Flow with Shipboard Interactions
• Ultra Reliable Input Entry Devices and Sensors.
• Autonomous Aircraft Securing
• Alternative/Replacement Wire Stripper
• 3-D Control Panel Simulation
• Advanced Aircraft Simulator Flight Fidelity Evaluation Measures
• Accelerated Assimilation of Flight Deck Wind, Pitch, Weather & Roll Limitations
• Dynamic Color Ratio Infrared Simulator Source
• Infrared Simulator (IR) Closed-Loop Monitoring System
• Streamlined Management Methods for Advanced Custom Hearing Protection Equipment
OPPORTUNITIES
Technology - All Phases

KEYS TO SUCCESS
• Supported by business case
• Quantify capability enhancement
• Transition Plan
• Cross-service initiatives

• Gov’t S&T
• Industry S&T
• Academia S&T
OPPORTUNITIES
Development & Manufacture

KEYS TO SUCCESS
• Prime-Sub Contracting
• Expertise
• Relevant Products & Services
OPPORTUNITIES
Operations & Support

KEYS TO SUCCESS
• Relevant Expertise – fleet support
• Prime-Sub Contracts
COMMUNICATION WITH AIR-1.0 PROGRAMS

• Forums
  – SBIR
  – ATRB
  – CONFRENCES
  – MARKET SURVEYS

• NAVAIR Small Business Office
BACKUP
AIR-1.0 PROGRAM MANAGEMENT COMPETENCY

ACQUISITION POLICY & PROCESSES
- INTERPRETATION
- PROMULGATION
- IMPLEMENTATION

AVIATION/SHIP INTEGRATION
SYSTEM REQUIREMENTS
POLICY & PROCESSES
INTERFACE COORDINATION

INTERNATIONAL PROGRAMS
- POLICY, PROCESSES, & TRNG
- CASE MGMT & ADMIN
- INTERNATIONAL CO-OP

ACQUISITION WORKFORCE MGMT
- PROGRAM STAFFING
- SKILLS DEVELOPMENT
- WORKFORCE SHAPING (PM)

ENVIRONMENTAL PROGRAMS
- REQMTS & COMPLIANCE
- POLICY, GUIDANCE, TOOLS
- QUALITY CONTROL

“AIR-1.0 COMPETENCY EXPERTISE CUTS ACROSS ALL ASPECTS OF NAVAL AVIATION”
AIR-1.0 ATRB PARTICIPATION

FOUR ADVANCED TECHNOLOGY REVIEW BOARDS (ATRB)

- AIR ASW ATRB
- STRIKE PLATFORMS ATRB
- ASSAULT ATRB
- COMMON SYSTEMS ATRB
- AIR 1.0
- WEAPONS ATRB

COMMON SYSTEMS ADVANCED TECHNOLOGY REVIEW BOARD (CSATRB)

- PMA202 AND PMA209 FOCUS
- AVAILABLE TO OTHER AIR-1.0 PMAS
- SIGNIFICANT FACTOR IN STABILIZING S&T FUNDING
- ATRB TOPIC SOURCES INCLUDE SBIR, IRAD, ATD, ACTD/JCTD, ETC.
- TIMELINE: PMA TECHNOLOGY NEEDS UPDATE MARCH; TOPIC DATA CALL APRIL-MAY; TECHNOLOGY BRIEFINGS JULY; AIR-1.0 RATINGS (SUPPORT, ENDORSE,...) AUGUST

COMMON SYSTEMS ATRB INTEREST

- AVIONICS DATA (DATA, VOICE, VIDEO) STORAGE
- PREDICTIVE, OBsolescence ANALYSIS TOOLS
- INERTIAL NAVIGATION SYSTEMS/COMPONENTS
- ADVANCEMENTS IN AIRCRAFT AVIONICS DISPLAYS
- HIGH SPEED DATA AND IMAGERY TRANSFER CAPABILITY
- ENHANCED COOLING TECHNIQUES FOR AVIONICS
- OBSTACLE DETECTION SYSTEM CAPABILITY

ATRB WEBSITE

- ACCESSIBLE TO PUBLIC
- CONTAINS SCHEDULES, MINUTES, ANNOUNCEMENTS, POCs, PMA ROADMAPS, ATRB TRANSITION SUCCESS STORIES, ETC. FOR ALL ATRBS
- URL: HTTP://ATRB.NAVAIR.NAVY.MIL

NAVAIR ATRB TEAM

- COMMON SYSTEMS ATRB FACILITATOR: RICK LEIDIGH, PMA-209,
AIR-1.0 SBIR PARTICIPATION

INTEGRATED LAUNCH AND RECOVERY TELEVISION SURVEILLANCE (ILARTS)

EMBARKED AIRCRAFT TRACKING SYSTEM

COMMON CRASH RESISTANT TROOP SEAT

VERTICAL FLIGHT DECK OPERATIONS TRAINER

PERSONAL SURVIVAL ENSEMBLE