



# Science & Technology Program

## 16 April 2008

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# NAVAIR Sites



## TRAINING SYSTEMS DIVISION, ORLANDO, FL

Center for research, development, test and evaluation, acquisition and product support of training systems for the world.



## AIRCRAFT DIVISION, LAKEHURST, NJ

Provides aircraft launch and recovery expertise to the fleet.



## AIRCRAFT DIVISION, PATUXENT RIVER, MD

Provides acquisition management, research and development capabilities, air and ground test and evaluation, aircraft logistics and maintenance management for Naval aviation.



## WEAPONS DIVISION, CHINA LAKE & PT MUGU, CA

Provides our forces with effective and affordable integrated warfare systems and life cycle support to ensure battlespace dominance.



## NAVAIR DEPOT, NORTH ISLAND, CA

Provides comprehensive quality aviation support to the nation's warfighters.

Aircraft: F/A-18 Hornet; E-2C Hawkeye; C-2 Greyhound; S-3 Viking; H-60 Seahawk



## NAVAIR DEPOT, CHERRY POINT, NC

Delivers on time quality products and services for Naval aviation as service to the fleet.

Aircraft: AV-8B, Harrier; H-53, Sea Stallion; C-130, Hercules; H-46, Sea Knight; V-22, Osprey; VH-3, Presidential Helicopter



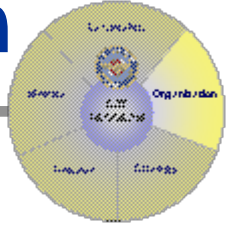
## NAVAIR DEPOT, JACKSONVILLE, FL

Delivers high quality maintenance, engineering, logistics and support services to the fleet.

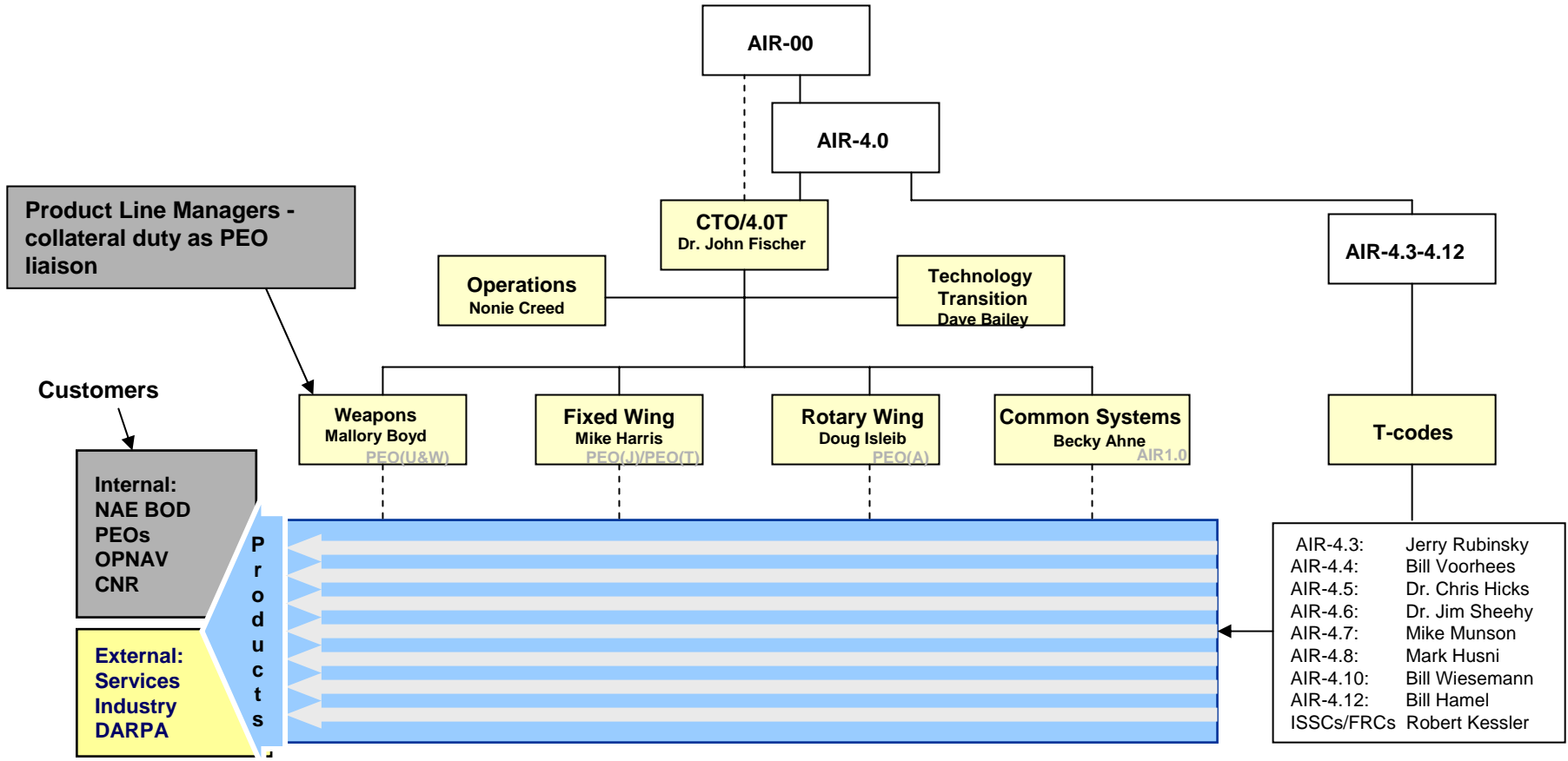
Aircraft: P-3 Orion; EA-6B Prowler, F-14 Tomcat, F/A-18 Hornet; S-3 Viking; SH-60 Seahawk



# Science & Technology Organization

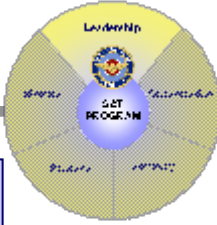


*The S&T Program is managed by an Integrated Program Team of Product Line Managers and NAVAIR Technologists (T-codes)*





# Chief Technology Officer (CTO)



*CTO engages internally and externally to develop an S&T Program that responds to capability needs with innovative technology solutions*

## **External Focus**

- Maintain knowledge of Naval Aviation needs through strong ties to the warfighting community
- Continually seek innovative solutions for warfighter needs. Champion for innovative ideas that do not address a specific need
- Foster relationships with potential technology providers (DoD, Industry, Academia, etc.)
- Support ASN(RDA), Chief of Naval Research and other Enterprise CTOs in planning and executing an effective Navy S&T Program

## **Internal Focus**

- Primary advisor to AIR-00, Naval Aviation Enterprise (NAE) Board of Directors and Program Executive Officers for technology issues & investments
- Advisor to AIR-00 & AIR-4.0 for issues related to S&T workforce & infrastructure, including workforce revitalization efforts
- Monitors health of S&T portfolio and progress toward delivery of capability through the use of approved metrics & processes





# NAE S&T Objectives

- ◆ 32 NAE S&T Objectives
  - Represents the *goals* of the NAE S&T program. Used as the baseline for identifying, prioritizing, aligning, and synchronizing S&T efforts throughout the enterprise.
  - Derived from 340+ capability needs provided by warfighters
  - Developed by a Working Group comprised of warfighters
  - Coordinated throughout the enterprise
  - Aligned with ONR Focus Areas, Joint Capability Areas, and Sea Power 21 Pillars
  - Support scenarios contained in Naval Aviation Capability Needs 2030-2050
  
- ◆ **NAE STOs will be presented at 18 April NAE BOD meeting for approval/signature**
  - NAVAIR and CNAF already briefed, ready to approve STO Document



## Naval Aviation Enterprise Science and Technology Objectives

Commander Naval Air Forces

Commander Naval Air Systems Command

Director, Air Warfare Division

30 April 2008

\_\_\_\_\_  
VADM Thomas J. Killeline, Jr.  
Commander, Naval Air Forces

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VADM David J. Venlet  
Commander, Naval Air Systems Command

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RADM Allen G. Myers  
Director, Air Warfare Division



# STO Distribution (by Capability Gap Area)

32 Total STOs

- Force Protection (FP) **(3)**
- Surface Warfare (SUW) **(1)**
- Under Sea Warfare (USW) **(3)**
- Theater Air and Missile Defense (TAMD) **(2)**
- Strike Operations (STK) **(7)**
- Deploy and Employ Forces (DEF) **(3)**
- Integrated Logistics Support (ILS) **(1)**
- Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) **(6)**
- Enterprise and Platform Enablers (EPE) **(1)**
- System Safety, Availability and Affordability (SSAA) **(2)**
- Naval Warrior Performance (NWP) **(3)**

*# of STOs*



# Summary

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- ◆ NAE is improving the way it plans and manages the S&T program
  - CTO organization
  - Processes
  - Metrics
- ◆ Developed 32 S&T Objectives (STOs)
  - Developed by warfighters, technologists and intelligence community
- ◆ Work closely with ONR to ensure that NAE objectives are communicated and advocated
- ◆ CTO office supports OPNAV efforts in science and technology
  - Identifying capability needs
  - Identifying appropriate funding venue
  - Update on programs/projects



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**Dr. John Fischer**

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**Chief Technology Officer (AIR-4.0T)**

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