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# Technology Insertion: Fleet/Operating Forces

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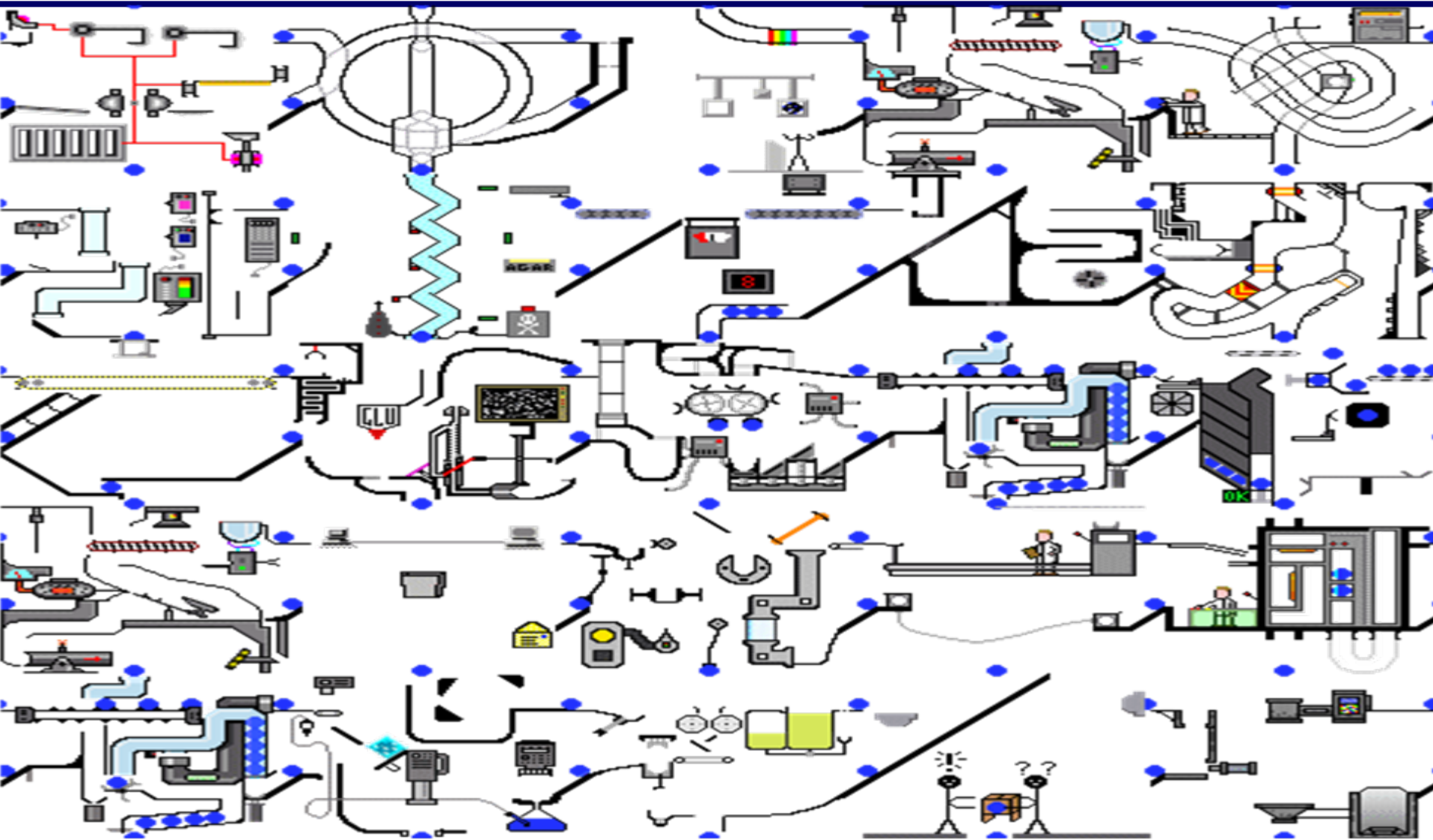
# Overview

- **War Fighter Requirements Articulation**
- **War Fighter – S&T Community Interaction**
- **Technology Insertion Programs**





# Simplified S&T Process







# Navy Senior Leader S&T Oversight

## Technology Oversight Group – Navy Representatives

- **Principal Deputy Assistant Secretary of the Navy, Research Development and Acquisition**
  - Acquisition/Transition
- **Chief of Naval Research**
  - Technology Development
- **Deputy Chief of Naval Operations, Integration of Capabilities and Resources (CNO N8)**
  - Resources and Requirements
- **Deputy Commander US Fleet Forces Command**
  - Fleet War Fighting Requirements



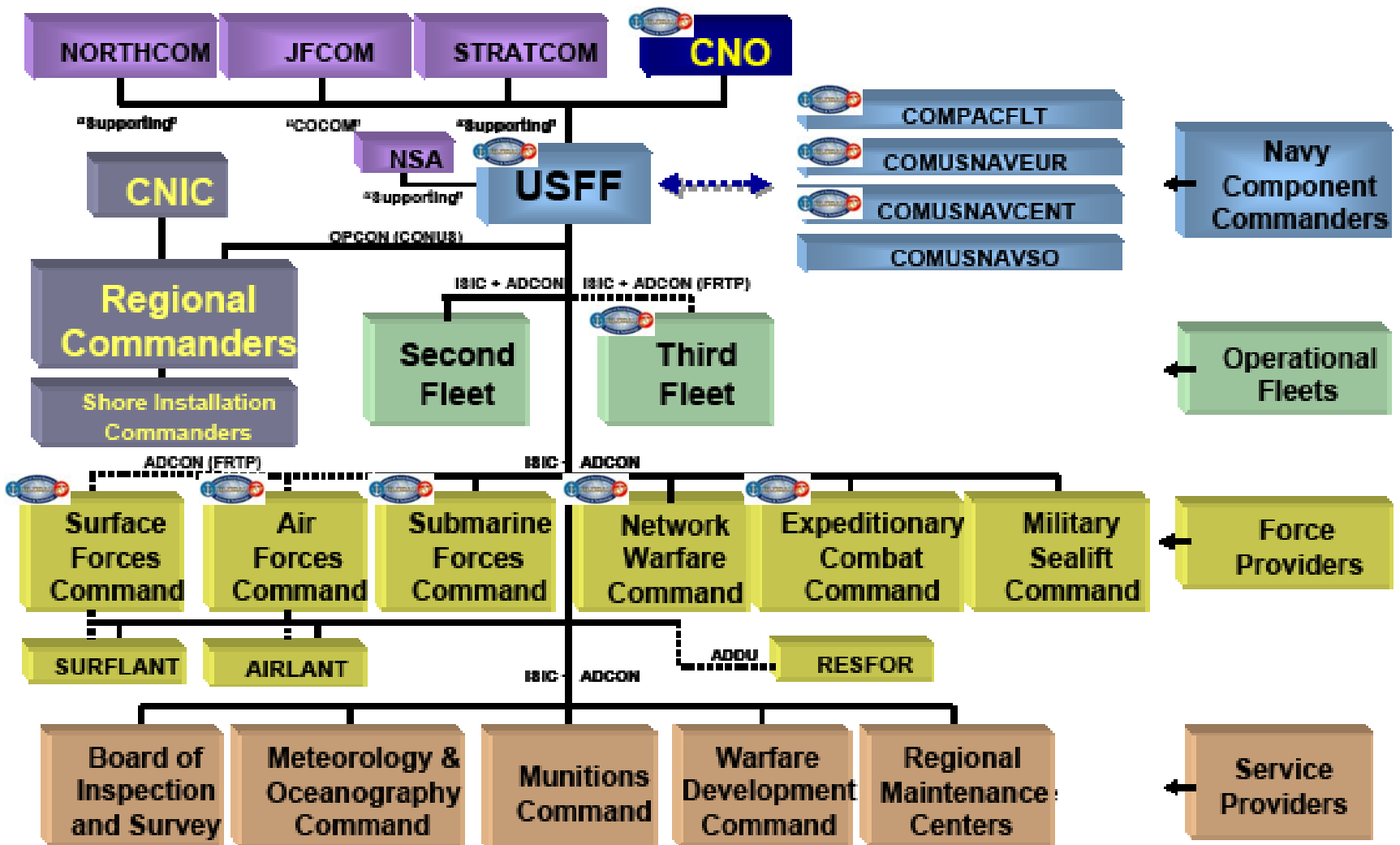
# US Fleet Forces Command Missions Functions and Tasks

- **OPNAV INSTRUCTION 5440.77**
  - **Section 2c: USFLTFORCOM will integrate and articulate authoritative fleet war fighting, readiness, and personnel capability requirements to the Chief of Naval Operations (CNO)**
  - **Section 5d1: (USFLTFORCOM will) Coordinate integration of US Pacific Fleet (PACFLT), US Naval Forces European Command (NAVEUR), US Naval Forces Central Command (NAVCENT), and US Naval Forces Southern Command (NAVSO) war fighting, readiness, personnel and capability requirements to the CNO**



# USFF Command Relationships

## USFF Annual Plan 2008





# Sea Power 21

Force Protection  
 Surface Warfare  
 Undersea Warfare  
 Theater Air & Missile Defense



Strike  
 Naval Fire Support  
 Strategic Deterrence  
 Ship to Objective Maneuver



Deploy & Employ  
 Integrated Joint Logistics  
 Pre-position Joint Assets Afloat



- Sea Trial
- Sea Warrior
- Sea Enterprise

ISR  
 Common C3F/Sea  
 Operational  
 Tactical Picture  
 Communications  
 & Data Networks



**SURFACE  
 WARFARE**



**NAVAL  
 AVIATION**



**UNDERSEA**



**NAVAL  
 NETWORK  
 FORCENET**



**NAVAL  
 EXPEDITIONARY**

Capability  
 Providers

Resource  
 Sponsors

Capability  
 Providers

Resource  
 Sponsors

Capability  
 Providers

Resource  
 Sponsors

Capability  
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**WARFARE ENTERPRISES**



# S&T Program Selection

## Top Down, Requirements Driven

- **Overarching National, Joint and Navy Strategies**
  - **War Fighting Requirement Analysis**
  - **Analysis of Existing Capabilities**
  - **Gap Identification**
    - **Near Term (Fleet Focus)**
    - **Far Term**
    - **S&T Project Development to Address War Fighting Gaps**
    - **Fleet Input to Prioritize Execution of S & T projects**
  - **War Fighter and S&T Community Work Together to Develop Capabilities to Fill Gaps**
- 
- A large military helicopter, possibly a Sikorsky HO4S, is on the deck of an aircraft carrier. The helicopter is white with grey camouflage patterns and has 'NAVY' and '155' visible on its side. It is being hoisted by a crane, with a person on the deck managing the operation. The background shows the blue ocean and the sky.





# Technology Insertion Programs

- **Future Naval Capabilities (FNC)**
  - Provides capabilities to close war fighting gaps
  - Up to 5 years
  - Potential for Joint Capability Technology Demonstration (JCTD) program
    - Build upon FNC adding Joint/Coalition/Agency capability
- **Rapid Technology Transition**
  - Increases rate that new, innovative, and potentially disruptive technologies are inserted into acquisition programs
  - Technology Readiness Level 6 or higher, 2 yr, \$2M program



# Technology Insertion Programs (cont.)

- **Rapid Development and Deployment Program**
  - Rapid development and fielding of prototype solutions to meet urgent needs in the Global War on Terrorism
  - Validated Naval urgent need that requires rapid (270 days) development of material solutions not readily available off-the shelf
    - Naval Innovation Laboratory
- **Sea Trial**
  - Speed development of new concepts and technologies to the war fighter
    - Wargaming, experimentation, and exercises
  - Candidates with the greatest potential to provide dramatic increases in war fighting capability



# Summary

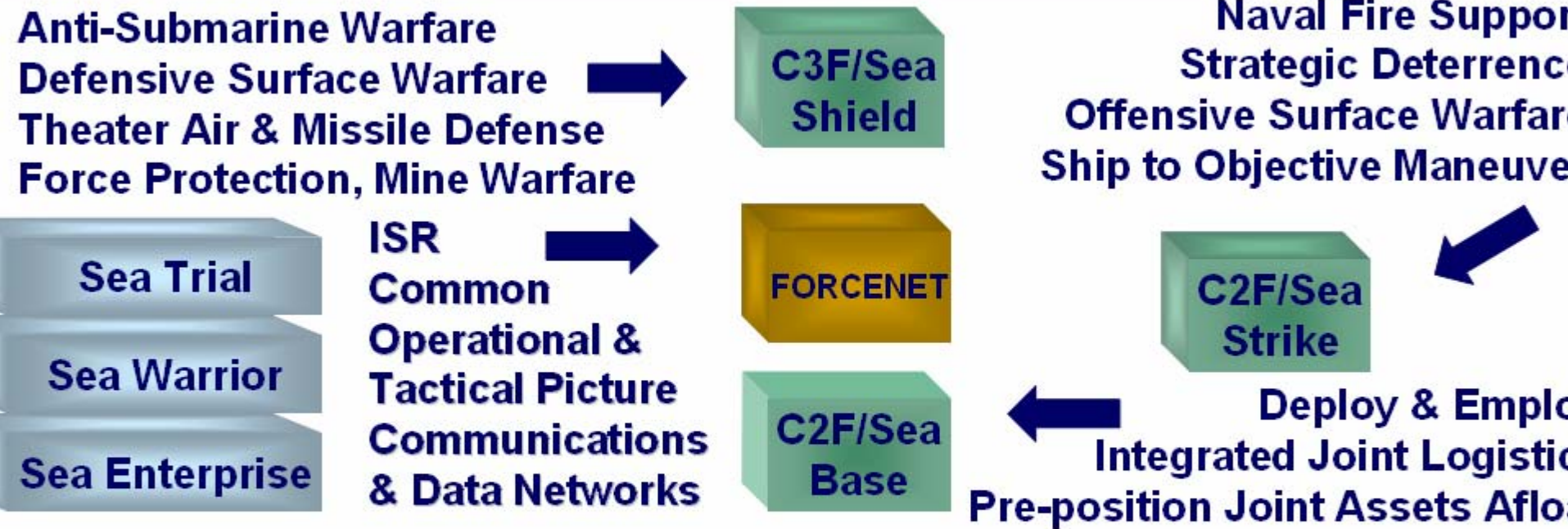
- **USFF is responsible for integrating and articulating authoritative fleet war fighting requirements to the CNO**
- **Navy S&T requirements are a part of the overall Navy requirements generation process**
  - **Senior leadership oversight**
- **Representatives from requirements, resources, development and acquisition work together from the beginning to support technology transfer in the Navy**
- **Multiple venues are available for technology transfer**







# Sea Power 21



WARFARE ENTERPRISES