



NAVAL-INDUSTRY R&D PARTNERSHIP CONFERENCE 2002

**FRAMING THE CHALLENGE
GOVERNMENT / COMMERCIAL
BUSINESS MODEL ALIGNMENT**

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THE CHALLENGE



THE WARFIGHTER NEEDS THE BEST INNOVATIVE TECHNOLOGY PRODUCTS RAPIDLY, IRRESPECTIVE OF THE SOURCE

TRANSFORMING CONCEPTS-TO-COMBAT CAPABILITY

CO-EVOLUTION OF CONCEPTS, TACTICS, TECHNIQUES, PROCEDURES AND TECHNOLOGIES

Models

Hardware

Systems

Capability



CONSTRUCTIVE

LIVE

VIRTUAL

Platform(s)-in-the-Loop
Weapon(s)-in-the-Loop
Sensor(s)-in-the-Loop
Network(s)-in-the-Loop
System(s)-in-the-Loop

Evolution

Human-in-the-Loop

Architecture & Performance Models

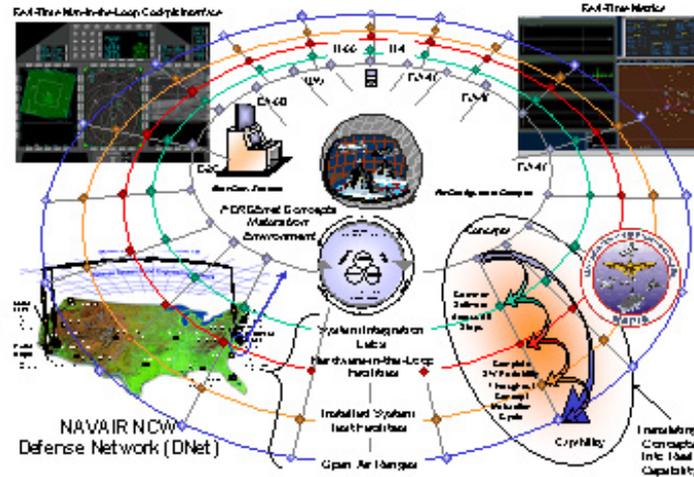
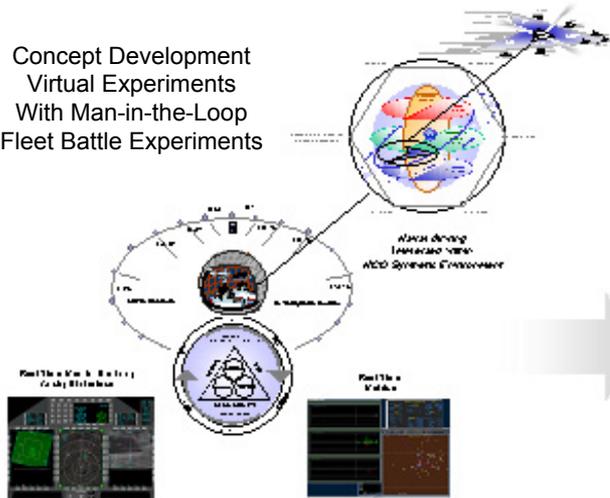
Concepts

“INNOVATION”

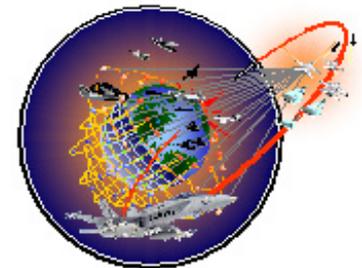
“INTEGRATION”

“IMPLEMENTATION”

Concept Development
Virtual Experiments
With Man-in-the-Loop
Fleet Battle Experiments



ABSOLUTE
COMBAT POWER



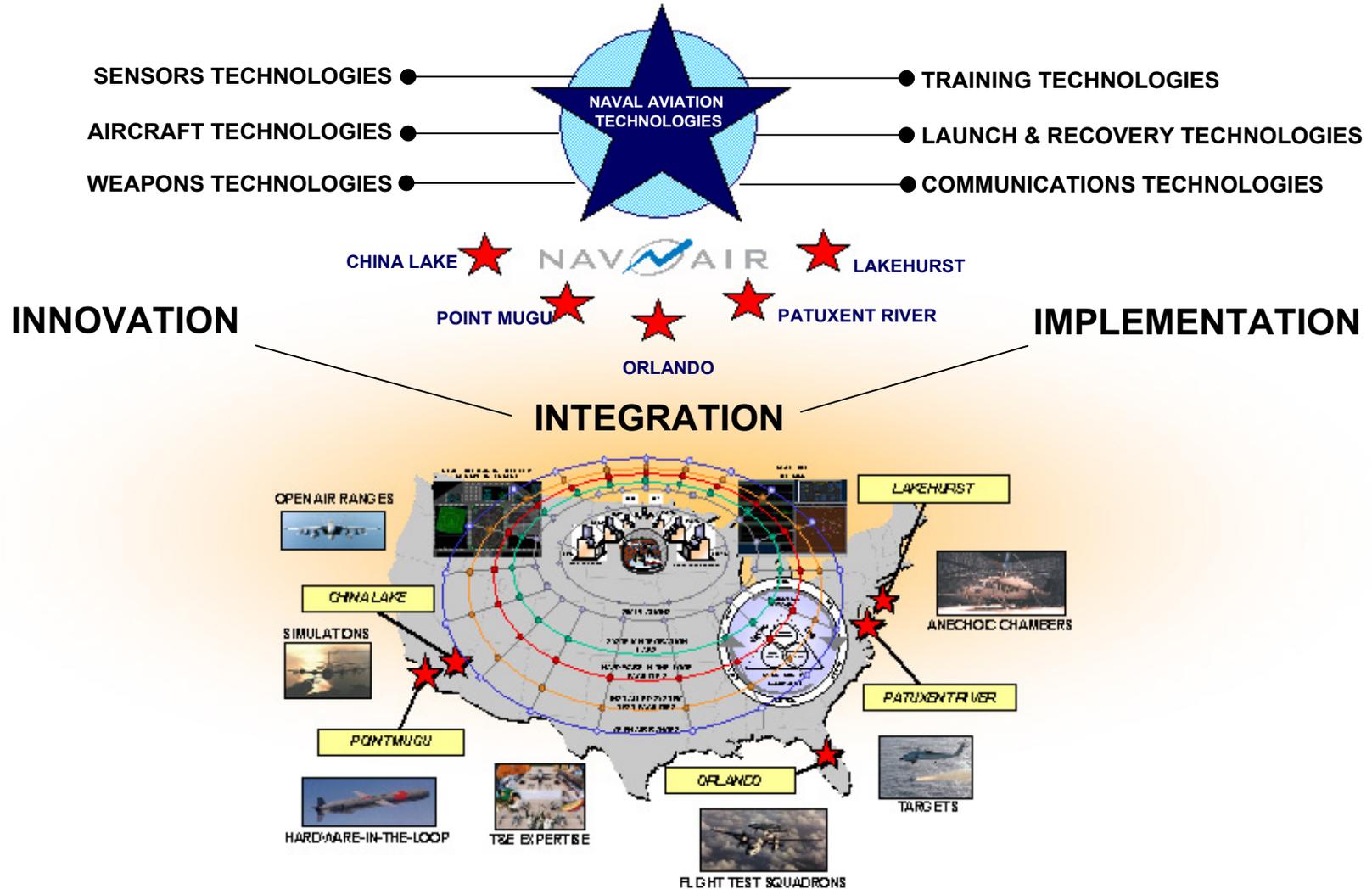
Medium-to-Large Scale Distributed Experiments
Fleet Battle Experiments

Speed – Stealth – Precision – Agility
Power - Intelligence

NAVAIR'S NET-CENTRIC RDT&E INFRASTRUCTURE

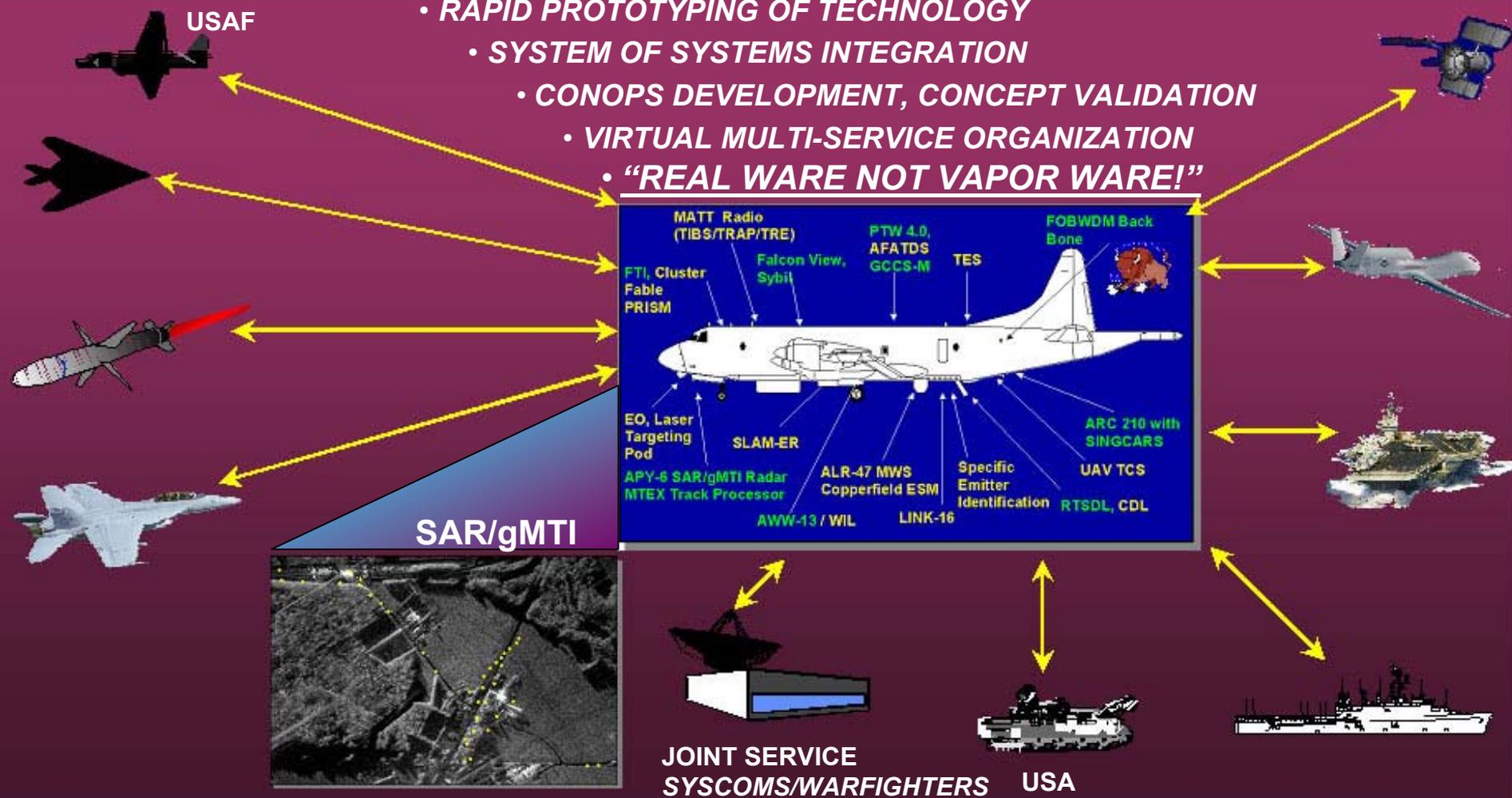
ENABLING THE DELIVERY OF ABSOLUTE COMBAT POWER THROUGH ADVANCED WARFARE TECHNOLOGIES

SPEED – STEALTH – PRECISION – AGILITY – POWER - INTELLIGENCE



HAIRY BUFFALO: INTEGRATING TECHNOLOGY, CONCEPTS, & EXPERIMENTATION

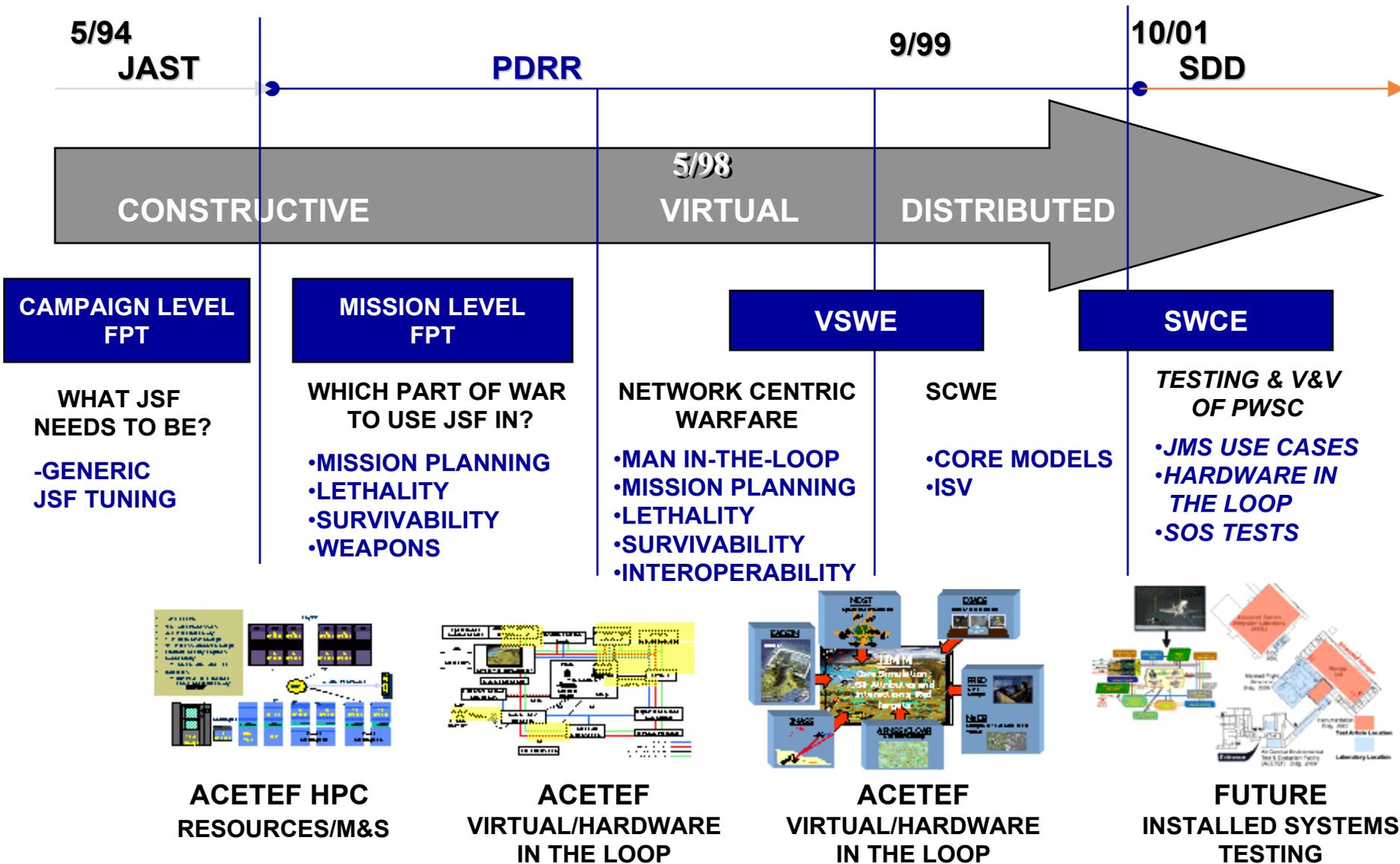
- *RAPID PROTOTYPING OF TECHNOLOGY*
- *SYSTEM OF SYSTEMS INTEGRATION*
- *CONOPS DEVELOPMENT, CONCEPT VALIDATION*
- *VIRTUAL MULTI-SERVICE ORGANIZATION*
- **“REAL WARE NOT VAPOR WARE!”**



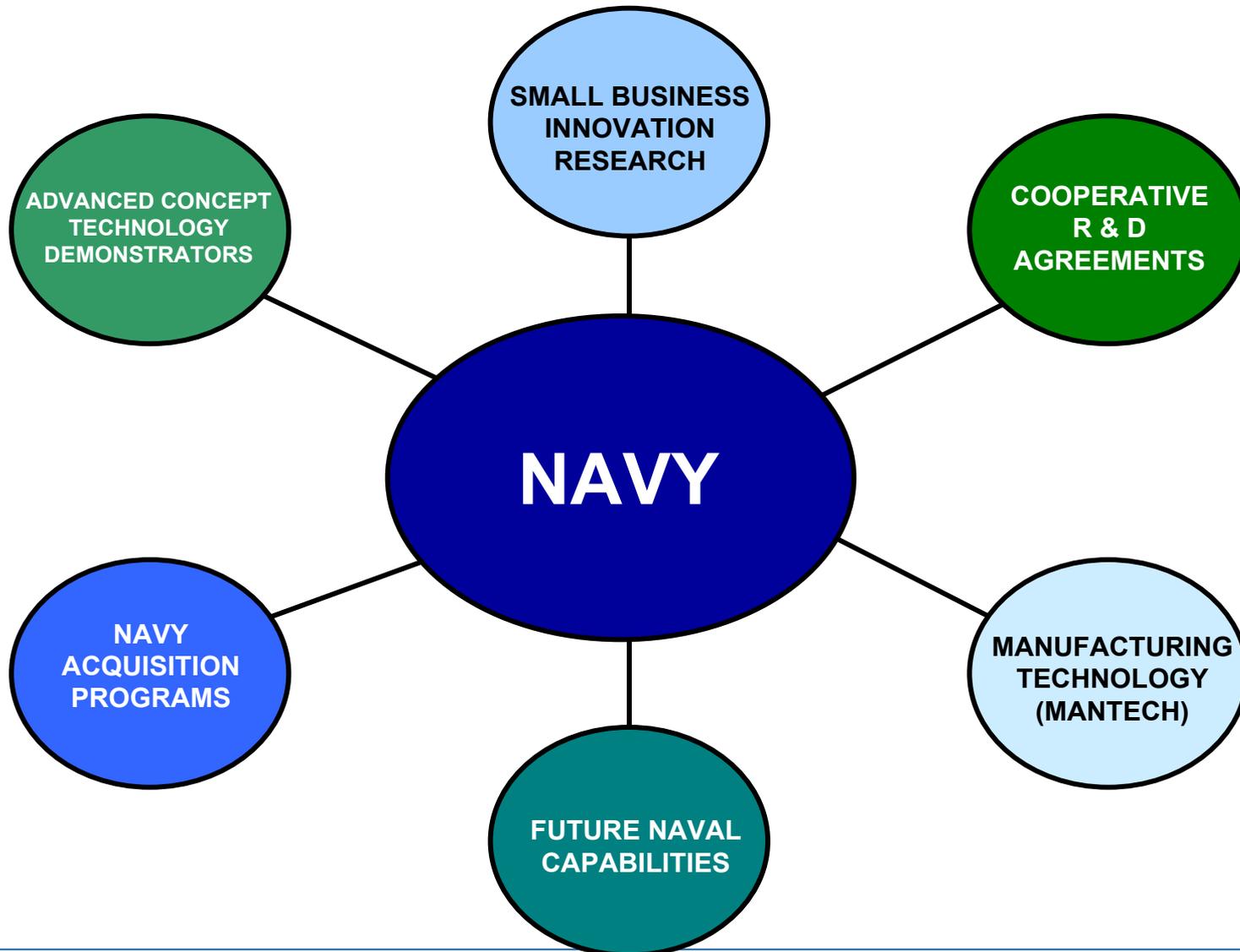
ALL-WEATHER SENSING → **FORWARD AIRBORNE PRECISION TARGETING** → **JOINT NCW COMMUNICATION** → **SUPPORTING THE JOINT WARFIGHTER**

FY00 (FBE-G/H NATO CAESER) FY01(FBE-I) FY02/03 (Enduring Freedom)

ACETEF IN THE JSF ACQUISITION PROCESS



CURRENT NAVAL / INDUSTRY PARTNERSHIPS



MEETING THE CHALLENGE

- **TO MEET THE CHALLENGE WE MUST:**
 - OVERCOME ISSUES ASSOCIATED WITH RAPID INSERTION OF TECHNOLOGY
 - GOVERNMENT / INDUSTRY RELATIONSHIPS
 - BUSINESS MODEL ALIGNMENT
 - LEGAL FRAMEWORKS
 - FOCUS ON THE ELEMENTS OF SUCCESSFUL TECHNOLOGY TRANSITION
 - INTEGRATION OF BUSINESS, FINANCIAL, AND TECHNOLOGY STRATEGIES
 - NETWORK CENTRIC BUSINESS APPROACH
 - INCENTIVES
 - SPEED

BRIDGING THE GAP

- **STRENGTHEN PARTNERSHIPS WITH INDUSTRY AND ACADEMIA**
 - EXAMPLES:
 - TEAMING ON FUTURE NAVAL CAPABILITIES
 - STUDENT INTERN, SUMMER FACULTY, AND POST-DOCTORAL PROGRAMS
- **SOLICIT INITIATIVES TO IMPROVE BUSINESS PRACTICES THROUGH THE DOD BUSINESS INITIATIVE COUNCIL**
- **EXPLORE VENTURE CAPITAL INVESTMENTS**