Navy Transformation
Network Centric Warfare and FORCEnet

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Why FORCEnet?

FORCEnet...
Transforming information into Combat Power

Transforming the 21st Century Navy...
Assuring Power and Access... From the Sea
Why SEA POWER 21?

- Current force structure must adapt to changing threats and environments
- US Naval Forces must sustain combat advantage
- Must direct investments providing 21st Century Warrior with affordable, integrated and maximized kinetic effects

Transforming the Navy to meet 21st Century Challenges
Why SEA POWER 21?

NCW provides the dominant combat power as adversary capabilities grow.

**Advanced Combat Power for the Naval Force**

- Pervasive Littoral Awareness
- Total Force Network
- Self-Synchronized, Effects-Based Information & Kinetic Operations
SEA POWER 21 Starts NOW

- Incremental delivery of prototypes to Fleet through experimentation
- Integrate capabilities to deploying Naval forces according to the Blueprint
- Engage Industry
- Apply guiding concepts and requirements to POM
- Refocus recruiting, training and retention on 21st Century Warrior
- POM 04 supported
“The operational construct and architectural framework for Naval Warfare in the Information Age which integrates Warriors, sensors, networks, command and control, platforms and weapons into a networked, distributed combat system, scalable across the spectrum of conflict from seabed to space and sea to land.”

*SSG-XXI recommended definition from 22 July 02 CNO Briefing*
Our Challenge

• Can’t afford to maintain current force structure
• Can’t afford to lose next war
• Must redirect investments to provide the 21st Century Warrior with integrated, interoperable combat and combat support systems

FORCEnet . . .

Transforming information into Combat Power
International R&D Investment

R&D Expenditures (1985-1999)

Source: Science & Engineering Indicators-2002

Note: G-7 countries are the United States, Canada, France, Germany, Italy, Japan, and the UK.
Network Centric Warfare is the theory.

Network Centric Operations is the concept.

FORCEnet is the process of making the theory and concept a reality.

FORCEnet is the integration of sensors, networks, weapons, platforms, information and people to provide agile, lethal, efficient combat power.

FORCEnet is the Systematic Acceleration of NCW to Reality
Network Centric Warfare - C4ISTAR Implications
Transforming Roles of Battlespace Entities

Late 20th Century

21st Century

Data & Information Store
Sensor Entities
Battlespace Agents
Actor Entities
Decision Entities

COP Process
FORCEnet Human Element

- Provide the Fleet with highly skilled, trained, and continuously educated teams
- Task Force Excel and Sea Warrior
- Recruit, train, educate and retain skilled Sailors and Officers
- Create challenging learning opportunities with flexible incentive packages
- Support/meet both the Fleet and individual needs

STRONG CONTRIBUTOR TO HOLISTIC NAVY HR IMPROVEMENTS
Major Activities

- Enhanced Naval and Joint Force Experiments
- Industry to augment Naval, Joint experimentation
- Leverage Academic Institutions’ initiatives
- Revised Mission Capability platform and equipment roadmaps driven by quantitative and qualitative analysis
- Modeling and simulation and war gaming coupled with enhanced integrated ground test systems
- Utilize Naval Warfare Systems Forum (NWSF) as a single POC for Navy Warfare Center’s Laboratories (Foundation for FORCEnet Development Center)
SUMMARY

- FORCeNet is the foundation for Sea Power 21
- FORCeNet operations require a highly networked force supported by advances in information age capabilities
- 50% of FORCeNet will be the Human element - - 21st Century Warrior
- FORCeNet is not a box
  - Will serve as a catalyst for enabling Sea Power 21
- FORCeNet has no end state
  - Will evolve as technologies allow
- Implementing FORCeNet requires new organizational approaches and implementation strategies

A FULLY NETTED FORCE + 21ST CENTURY WARRIOR = FORCENET
FORCEnet Points of Contact

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