Projecting Decisive Joint Capabilities
THE CHALLENGE...

“We must take the battle to the enemy, disrupt his plans, and confront the worst threats before they emerge.”

George W. Bush
01 June 2002

“Our Navy is on the leading edge of this fight and...Sea Power 21 will help us fulfill the President’s direction.”

ADM Vern Clark
12 June 2002

Vision
Clear, concise, and powerful

Innovation
A culture of innovation, experimentation, and education

Jointness
Fully integrating naval forces into the joint...
MAXIMIZE OUR ADVANTAGES

• Exploit U.S. asymmetric strengths
  - Information superiority, persistence, precision, mobility, stealth, reach, speed, lethality, and people

• Fully leverage international domain
  - Empower joint warfighting across the full extent of a unified battlespace

Emergent challenges require enhanced warfighting capabilities
“Our strategy has shifted from a focus on a global threat to a focus on regional challenges…”

From the Sea (1992)

“Enhancing security in today’s dynamic environment requires us to expand our strategic focus to include both evolving regional challenges and transnational threats.”

Sea Power 21 (2002)
WHY NOW?

• Strategic environment is dynamic and uncertain
  – Must optimize new combinations of immediately employable, forward deployed joint forces

• Increased alignment with joint services is required
  – Must provide Combatant Commanders with flexible, persistent, agile, and capable naval forces

*SEA POWER 21 challenges assumptions... Prescribes how to operate in the decades ahead*
SEA STRIKE
Projecting Offensive Power...
responsive, precise, and persistent

- Dominant & decisive power from the international domain
- Focused Effects: Precision strike, information operations, fires, covert strike, Special Forces, and Marines
- Enabled by networked Intelligence, Surveillance & Reconnaissance (ISR) for knowledge superiority
- Seize the initiative
  - Disrupt enemy timelines
  - Preempt adversary options
  - Ensure operational success
## SEA STRIKE

**Investments**

<table>
<thead>
<tr>
<th>Transformational</th>
<th>Core</th>
</tr>
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<tbody>
<tr>
<td>UCAV-N, JSF, NFN, AESA, TACTOM, MIDS</td>
<td>ATFLIR, F/A-18E/F, JDAM, JSOW, LGB, Tomahawk</td>
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**Representative Programs**

<table>
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<th>Time Sensitive Strike</th>
<th>Ship to Objective Maneuver</th>
<th>Persistent ISR</th>
<th>EW / IO</th>
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<tr>
<td>ERGM, AGS, MV-22, ESG Concept</td>
<td>Exp Sensor Grid Concept, BAMS UAV ADS</td>
<td>AEA NNWC</td>
<td>LCAC SLEP, SOF ASDS</td>
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**Near-Term Goal:**
- Sensor to Shooter from Hours to Minutes
- STOM

**Stretch Goal:**
- Sensor to Shooter from Minutes to Seconds
- Deep Inland STOM
- Continuous ISR

**Sea Strike**

**Sea Strike**

**Near-Term Goal:**
- Sensor to Shooter from Hours to Minutes
- STOM
# SEA STRIKE

**Investments**

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<tr>
<td>• JSF</td>
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<td>• CVN(X)</td>
<td>• F/A-18E/F</td>
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<td>• DD(X)</td>
<td>• JDAM</td>
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<tr>
<td>• SSGN</td>
<td>• CVN-77</td>
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<tr>
<td>• Tactical Tomahawk</td>
<td>• JSF</td>
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<td>• MV-22</td>
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<td>• Expeditionary Strike Group</td>
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<td>• LHA(R)</td>
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<tr>
<td>• Global Hawk</td>
<td>• LHD-8</td>
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<td>• Unmanned Underwater Vehicle (UUV)</td>
<td>• LPD-17</td>
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<td>• Multi-Mission Aircraft (MMA)</td>
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<td>• SSN-774</td>
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<tr>
<td>• Airborne Electronic Attack (AEA) Aircraft</td>
<td>• Improved Capability EA-6B (ICAP III)</td>
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</table>

## Near-Term Goal:
- Sensor to Shooter from Hours to Minutes
- STOM

## Stretch Goal:
- Sensor to Shooter from Minutes to Seconds
- Deep Inland STOM
- Continuous ISR
SECDEF’s Critical Operational Goals Addressed by SEA STRIKE

- Protect Critical Bases and Defeat CBRNE Weapons and Their Means of Delivery
- Assure Information Systems and Conduct Effective Information Operations
- Project and Sustain Forces in Anti-Access Environments
- Deny Enemy Sanctuary by Providing Persistent Surveillance, Tracking and Rapid Engagement with High-Volume Precision Strike
- Leverage IT to Develop a Joint C4ISR Architecture and Operational Picture
- Enhance capability and survivability of space systems and supporting infrastructure

Capabilities
- Time Sensitive Strike
- Ship to Objective Maneuver
- Persistent ISR
- EW / IO

NNWC CDL-N TACTOM AESA Radar AGS/ERGM AEA MIDS ESG Concept MV-22 Naval Fires Network

SEA STRIKE Roadmap

FY09 FY10 FY11 FY12
SEA STRIKE

Impact

• Amplified, effects-based striking power
• Increased precision attack & information operations
• Enhanced warfighting contribution of Marines & Special Operating Forces
• “24 / 7” offensive operations
• Seamless integration with joint strike packages
SEA STRIKE
Future Technologies

- Autonomous, organic, long-dwell sensors
- Integrated national, theater, and force sensors
- Knowledge-enhancement systems
- Unmanned combat vehicles
- Hypersonic missiles
- Electro-magnetic rail guns
- Hyper-spectral imaging
• Accelerate information dominance via FORCEnet

• Develop, acquire, and integrate systems to increase combat reach, stealth, and lethality

• Distribute offensive striking capability throughout the entire force

• Deploy sea-based, long-dwell sensors

• Develop IO as a major warfare area

• Synergize with USMC transformation efforts
SEA SHIELD
Projecting Defensive Assurance...
assure allies, deter adversaries, sustain access

• Project layered, defensive power -- globally
• Extend homeland security with networked intelligence & forward presence
• Sustain access via littoral dominance
• Protect joint forces and allies ashore
  • Extend defensive umbrella deep inland
  • Strengthen strategic stability
  • Provide operational security
# SEA SHIELD

## Investments

### REPRESENTATIVE PROGRAMS

<table>
<thead>
<tr>
<th>BMD</th>
<th>CUP</th>
<th>NIFC-CA/SM-5</th>
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<td>VSR</td>
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<td>Organic MIW Systems</td>
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<th>Homelnd Defense</th>
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<th>Theater Air Missile Defense</th>
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## Near-Term Goal:
- Area Defense
- JOA Clearance: Weeks to Days

## Stretch Goal:
- Theater Defense
- JOA Clearance: Days to Hours

---

**Sea Shield**

**Homeland Defense**
- P-3 AIP
- Mk 54
- CBASS
- CIWS 1B

**Sea / Littoral Control**
- AADC
- SM 2 BLK IIIB
- AIM-9X / JHMCS
- AMRAAM
- NULKA
- ESSM
- RAM
Near-Term Goal:
• Area Defense
• JOA Clearance: Weeks to Days

Stretch Goal:
• Theater Defense
• JOA Clearance: Days to Hours

REPRESENTATIVE PROGRAMS

Homeland | Sea / Littoral | Theater Air
--- | --- | ---
• NBC Response Capability
  • National Maritime Intelligence Center (NMIC)
  • AT/FP

• Ballistic Missile Defense (BMD)
  • USCG Deepwater Project

• LCS
  • DD(X)
  • Global Hawk

• CG(X)
  • SM-5
  • Cooperative Engagement Capability (CEC)

• SSN 774
  • SSN 688 ERO
  • P-3 AIP

• DDG-51
  • CG Conversion
  • SM 2 BLK IIIB
  • AIM-9X

Sea Shield

Coastal for a Transformational
Sea / Littoral Control
Theater Air Missile Defense
SECDEF’s Critical Operational Goals Addressed by SEA SHIELD

- Protect Critical Bases and Defeat CBRNE Weapons and Their Means of Delivery
- Project and Sustain Joint Forces in Anti-Access Environments
- Leverage IT to Develop

Capabilities

- Homeland Defense
- Sea / Littoral Control
- Theater Air Missile Defense
• Projected defense for joint forces and allies ashore

• Sustained access for maritime trade, coalition building, and military operations

• Extended homeland defense through forward presence and networked intelligence

• Enhanced international stability, security, and engagement
• Interagency intelligence & communications reach-back systems
• Organic mine countermeasures
• Multi-sensor cargo inspection equipment
• Advanced hull forms & modular mission payloads
• Directed energy weapons
• Autonomous unmanned vehicles
• Common Undersea Picture
• Single Integrated Air Picture
• Distributed Weapons Coordination
SEA SHIELD
Action Steps

• Expand combat reach
• Deploy Theater Missile Defense as soon as possible
• Create Common Operational Pictures for air, surface, and subsurface forces
• Accelerate the development of sea-based unmanned vehicles to operate in every environment
• Invest in self-defense capabilities to ensure sea superiority
SEA BASING
Projecting Operational Independence...
joint power from the sea

- Sea-bases key joint warfighting capabilities
  - Offensive & defensive power projection
  - Command & control
  - Logistics

- Extends naval advantages to the joint team
  - Freedom of operations
  - Immediate employability
  - Increased security
  - Sustained access

- 70% of the earth’s surface as joint
  Sea Basing
### Near-Term Goal:
- Months on Station
- Coastal Fire Support
- Light Sea Transfer
- Enhanced C3

### Stretch Goal:
- Years on Station
- Deep Fire Support
- Heavy Sea Transfer
- Seamless C3

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**SEA BASING Investments**

<table>
<thead>
<tr>
<th>REPRESENTATIVE PROGRAMS</th>
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<th>Afloat Power Projection</th>
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# SEA BASING

## Investments

### Near-Term Goal:
- Months on Station
- Coastal Fire Support
- Light Sea Transfer
- Enhanced C3

### Stretch Goal:
- Years on Station
- Deep Fire Support
- Heavy Sea Transfer
- Seamless C3

### Representative Programs

<table>
<thead>
<tr>
<th>Core Programs</th>
<th>Transformational Programs</th>
<th>Core MPS</th>
<th>Transformational MPS</th>
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<tr>
<td>- NMCI / IT-21</td>
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<td>- CVN-77</td>
<td>- CVN(X)</td>
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<tr>
<td>- Global Command &amp; Control System-Maritime (GCCS-M)</td>
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<td>- Mobile User Objective System (MUOS)</td>
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<td>- LHA(R)</td>
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<td>- Maritime Pre-positioned Force (Future) MPF(F)</td>
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**Sea Basing**

Near-Term Goal:
- Months on Station
- Coastal Fire Support
- Light Sea Transfer
- Enhanced C3

Stretch Goal:
- Years on Station
- Deep Fire Support
- Heavy Sea Transfer
- Seamless C3
SECDEF’s Critical Operational Goals Addressed by Sea-Basing

- Protect Critical Bases and Defeat CBRNE Weapons and Their Means of Delivery
- Project and Sustain Forces in Anti-Access Environments
- Deny Enemy Sanctuary by Providing Persistent Surveillance, Tracking and Rapid Engagement with High-Volume Precision Strike

Capabilities
- Offensive & Defensive Power Projection
- Command and Control
- Logistics

Sea Basing Roadmap

- HSV
- LCS
- Web-enabled Navy
- CDL-N
- COWAN
- 2003
- DCGS-N
- SSGN
- Advanced EHF Terminals
- LMRS
- DJC2
- MUOS
- HLLCAC
- DD(X)
- MPF(F)
- CVN(X)
- CG(X)
• Pre-positioned warfighting capabilities for immediate employment

• Enhanced joint support from a fully netted, dispersed naval force

• Strengthened international coalition building

• Increased joint force security and operational agility

• Minimized operational reliance on shore infrastructure
SEA BASING
Future Technologies

- Enhanced joint command and control
- Heavy equipment transfer capabilities
- Intra-theater high-speed sealift
- Improved vertical delivery methods
- Integrated joint logistics
- Rotational crewing infrastructure
- International data-sharing networks
SEA Basing

Action Steps

- Exploit the advantages of sea-based forces wherever possible
- Develop technologies to enhance on-station time and minimize maintenance requirements
- Experiment with innovative employment concepts and platforms
- Challenge every assumption that results in shore basing of Navy capabilities
FORCEnet
Integrating warriors, sensors, weapons, networks, and platforms

- Framework for Info-Age Warfare
- Major increases in combat power by:
  - Connecting sensors, networks, weapons, command & control, platforms, and warriors
  - Accelerating speed and accuracy of decision
  - Integrating knowledge to dominate the battlespace
FORCEnet
Linking sensors, weapons, decision aids, and warriors

Integrates the power of
people, sensors, weapons, networks, and platforms
SECDEF’s Critical Operational Goals Addressed by FORCEnet

- Assure Information Systems and Conduct Effective Information Operations
- Deny Enemy Sanctuary by Providing Persistent Surveillance, Tracking and Rapid Engagement with High-Velocity Capabilities

FORCEnet Roadmap

<table>
<thead>
<tr>
<th>Year</th>
<th>Capabilities</th>
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<tr>
<td>FY04</td>
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<td>FY05</td>
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<td>FY06</td>
<td>Naval Fires Network</td>
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<td>FY08</td>
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<td>FY10</td>
<td>NIFC-CA (FY14)</td>
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Web-enabled Navy
CEC
CDL-N
NMCI/IT-21
MIDS
DJC2
DCGS-N
NIFC-CA (FY14)

2003

• Linking sensors, weapons, decision aids, warriors, etc.
FORCEnet Impact

- Connected warriors, sensors, networks, command and control, platforms, and Weapons
- Accelerated speed and accuracy of decision
- Integrated knowledge to dominate the battlespace
FORCEnet
Capabilities

- Expeditionary, multi-tiered, sensor and weapons grids
- Distributed, collaborative command and control
- Dynamic, multi-path, and survivable networks
- Adaptive / automated decision aids
- Human-centric integration
TRANSFORMATIONAL IMPACT

**Sea Strike**
- *Double strike aim points* within 10 years
- *Continuous battlespace coverage* via long-dwell sensors
- *Agile targeting* via unmanned loitering vehicles
- *Enhanced strike* via Expeditionary Strike Groups

**Sea Shield**
- *Extended homeland defense* via forward deployed forces
- *Sustained access* via networked ships, submarines & aircraft
- *Projected defense* over joint force and allies
- *Ballistic missile defense* over

**Sea Basing**
- *Offensive & defensive power projection*—unprecedented reach, accuracy, and lethality
- *Global connectivity* afloat for joint commanders
- *Forward bases & logistics* via pre-positioned ships & aircraft

*Fully integrating naval, land, and air forces across a unified battlefield*
Exploit naval maneuver space and random deployment patterns to disrupt enemy timelines, seize and sustain the initiative.
Maximizing combat flexibility for 1/4/2/1
GLOBAL CONCEPT OF OPERATIONS

Impact

• Widely distributed, fully netted striking power to support joint operations
• Increased presence, enhanced flexibility, and improved responsiveness
• Task-organized to deter forward, respond to crises, and win decisively
SEA TRIAL
Process of Innovation...
concept development, rapid prototyping, coordinated experimentation

• Integrate concept and technology development
  • Defined ownership of concepts
  • Targeted wargames, experiments and exercises
  • Focused developmental investment

• Fleet leadership
  • CFFC oversight
  • Fleet sponsors & co-sponsors
  • Spearhead elements to deploy & validate

• Enduring process of innovation to accelerate enhanced capabilities to
Near-Term Goal:
• Fleet Led Process
• Rapid Technology Insertion for GWOT

Stretch Goal:
• Institutionalize Transformation
• Speed Introduction of FNCs

Sea TRIAL Process

Concept 
Wargame 
Experiment 
Integrate 
Validate

Advanced Concepts / Technologies
Concept Analysis / Prototyping
Fleet Wargames Exercises
Joint Exercises
Sea Shield Deployment

Sea Trial

S&T 
Prototype 
Test 
Integrate 
Validate

Advanced Concepts / Technologies
Concept Analysis / Prototyping
Fleet Wargames Exercises
Joint Exercises
Sea Strike Deployment

Sea Base Deployment

Concept Pull

Technology Push

Sea Trial

Validate

Concept Pull

Technology Push

Validate
• Fleet-led, enduring process of innovation
• Accelerated concept and technology development
• Enhanced headquarters / fleet alignment
SEA WARRIOR
Investing in Sailors...
the right skills, in the right place, at the right time

• Sailors are our capital asset
  • Foundation of warfighting effectiveness
  • Life-long investment

• Achieve combat-ready Total Force
  • Enhanced recruiting
  • Innovative training
  • Optimal employment

• Realize full potential of all-volunteer force
  • Highly skilled
  • Continuously educated
  • Powerfully motivated
### SEA WARRIOR Initiatives

**Near-Term Goal:**
- Fully Man OEF Reqs
- Incentivize and Customize Detailing
- Introduce Continuum of Learning

**Stretch Goal:**
- Realize Personal & Professional Potential of Total Force
  - Education
  - Assignment Skills

---

<table>
<thead>
<tr>
<th>Key Initiatives</th>
<th>Selection &amp; Classification</th>
<th>Assignment</th>
<th>Growth &amp; Development</th>
<th>Training</th>
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<td>WPA RIDE / JOIN</td>
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</tbody>
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**Sea Warrior**

Near-Term Goal:
- Fully Man OEF Reqs
- Incentivize and Customize
• Continual professional growth and development
• Improved selection and classification
• Interactive, web-based, incentivized detailing
• Networked, high-impact training
SEA ENTERPRISE

Resourcing Tomorrow’s Fleet...

optimum resource allocation, increased productivity, enhanced procurement

• Identify & harvest efficiencies
  • Divest non-core functions
  • Organizational streamlining
  • Manpower reduction through technology insertion and process alignment

• Fund future readiness
  • Enhanced investment in warfighting capability
  • Accelerate transformation

• Inculcate culture of productivity
Near-Term Goal:
• Refine Requirements
• Productivity Measurements

Stretch Goal:
• Prioritize & Fund Requirements
• Productivity Culture
• Fully Integrate Navy & USMC
Greater process efficiencies

Divestment of non-core functions

Organizational streamlining

Enhanced investment in warfighting capability
## DPG Transformation

### Goals

<table>
<thead>
<tr>
<th>Goal</th>
<th>Sea Strike</th>
<th>Sea Shield</th>
<th>Sea Basing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Protect U.S. homeland and bases overseas</td>
<td></td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>2. Project and sustain power in distant theaters</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>3. Deny enemy sanctuaries</td>
<td>✔</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>4. Protect information networks from attack</td>
<td>✔</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>5. Use information technology to link U.S. forces to fight jointly</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>6. Maintain access to space and protect space capabilities from enemy attack</td>
<td></td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>
# 4-2-1 STRATEGY

<table>
<thead>
<tr>
<th></th>
<th>Sea Strike</th>
<th>Sea Shield</th>
<th>Sea Basing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Deterrence in <em>four</em> theaters</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>2. Swiftly defeat <em>two</em> aggressors</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>3. Massive counter-offensive to replace <em>one</em> regime</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
COMPLEMENTARY JOINT CONCEPTS

- Sea Strike
- Sea Shield
- Sea Basing
- Global Strike
- Global ISR
- Air Dominance
- Lighter, Agile
- Objective Force
- Combatant Commander
THE CHALLENGE...

“Our security will require transforming the military ... (to) be ready to strike at a moment’s notice in any dark corner of the world.”

George W. Bush
01 June 2002

Sea Strike
Projecting Offense...global presence, precision, and persistence

Sea Shield
Projecting Defense...assure allies, deter adversaries, sustain access

Sea Basing
Projecting Operational Independence...joint power
SEA POWER 21

Sea Shield

Sea Trial

Sea Warrior

Sea Enterprise

Sea Basing

Sea Strike

FORCEnet