Expeditionary Strike Group
Future Capabilities - 2015

Expeditionary Strike Group
MEU(SOC)
LHD
LPD
LSD
CG
DDG 51
DD(X)

LCS
- Mine Warfare
- Anti-Small Hull
- Anti-Submarine

TLAM

Forcible Entry
NEO
Close Air Support
HA / DR
MIO
Spec Ops

DD(X)
- NSFS
- Maritime Dominance

LCS
- Mine Warfare
- Anti-Small Hull
- Anti-Submarine
**DD(X) Transformational Systems**

- **Dual Band Radar**
  - Detection of Stealthy Targets in Sea-land Clutter
  - Multi-Function Radar
  - Volume Search Radar

- **Integrated Composite Deckhouse & Apertures**
  - Multi-Spectral Stealth Signatures
    - Low RCS / IR / EO Signatures
    - Planar Array Antennas

- **Peripheral Vertical Launch System (PVLS)**
  - Next Generation Launch System
    - Tomahawk
    - Standard Missile (SM 2)
    - Evolved Sea Sparrow Missile (ESSM)

- **Advanced Gun System (AGS)**
  - Surface Volume Fires
    - Automated Magazine
    - Up to 100 mile Land Attack Projectile

- **Integrated Power System (IPS)**
  - Increased Operational and Design Flexibility
    - LM2500 & LM500 Gas Turbines
    - 2 Fixed Pitch Propellers
    - Permanent Magnet In-Hull Motors

- **Total Ship Computing Environment (TSCE)**
  - Reduced Crew, Open Architecture
    - Substantially Reduced Manning
    - Fully Integrated Combat System
    - Network Centric Operations
    - Organic Targeting

- **Hull & Mobility**
  - Improved Survivability
    - Hybrid Double Hull
    - 30 kt Sustained Speed
    - Hangar both Helos & UAVs
    - Two Flight Deck Spots
    - Stern Boat Launch

- **Integrated Undersea Warfare**
  - In-Stride Mine Avoidance
    - Dual Freq Sonar Bow Array
    - Multi-Function Towed Array (MFTA)
    - Torpedo Countermeasures
Advanced Gun and Munition

- Major gun offensive capability that provides:
  - Increased range
    - ★ Up to 100 nmi
  - Improved lethality
  - Increased volume of fires
    - ★ 12 rpm (per gun)
  - Increased sustainability
  - Advanced handling system
Summary

- DD(X) is the Precision Strike and Volume Fires provider for assured access and Maneuver Warfare

- DD(X) is the centerpiece for development of critical transformational technologies
  - Eleven EDMs to be built and tested over next 3 years
  - Technologies risk mitigated through robust Land-Based and / or At-Sea testing

- Spiral Development process ongoing

- DD(X) Lead Ship Award FY05 with IOC FY12