



*Spirit of '76*

# ***DD(X) Program Overview***



***Expeditionary Warfare Conference***

***CAPT Chuck Goddard***  
***24 October 2002***

# Expeditionary Strike Group

## Future Capabilities - 2015

### Expeditionary Strike Group

MEU(SOC)



LHD



LPD



LSD



CG



DDG 51



DD(X)



SSN



TLAM



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



LCS

- ◆ Mine Warfare
- ◆ Anti-Small Hull
- ◆ Anti-Submarine



DD(X)

- ◆ NSFS
- ◆ Maritime Dominance

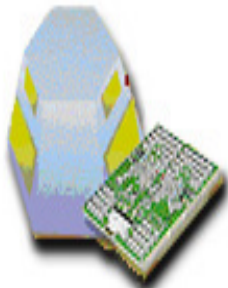


# DD(X) Transformational Systems

## Dual Band Radar

*Detection of Stealthy Targets in Sea-land Clutter*

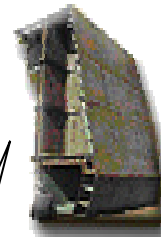
- ◆ Multi-Function Radar
- ◆ Volume Search Radar



## 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*

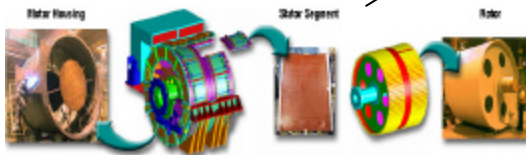
- ◆ Automated Magazine
- ◆ Up to 100 mile Land Attack Projectile



## Integrated Undersea Warfare

*In-Stride Mine Avoidance*

- ◆ Dual Freq Sonar Bow Array
- ◆ Multi-Function Towed Array (MFTA)
- ◆ Torpedo Countermeasures



## 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*

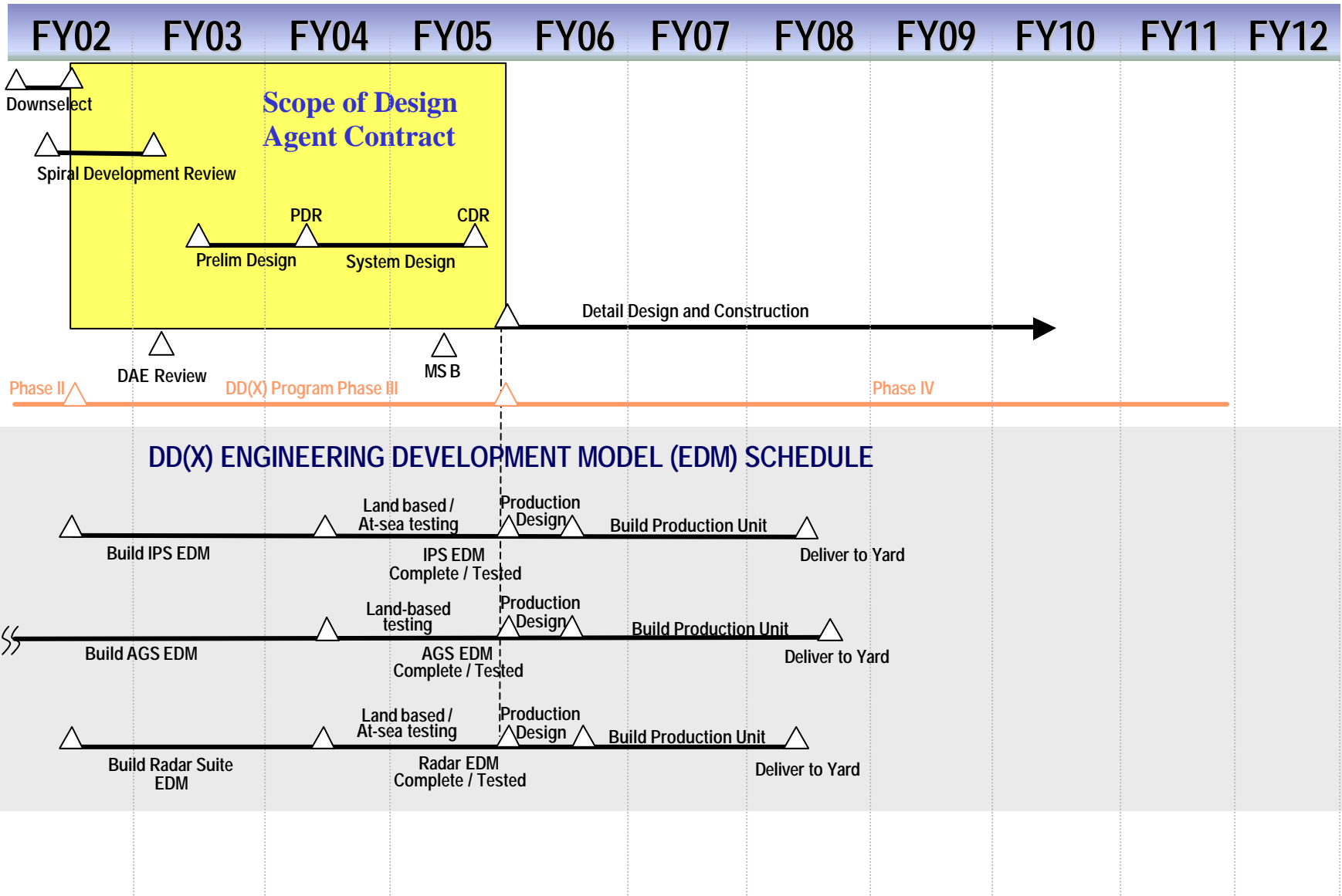
- ◆ Substantially Reduced Manning
- ◆ Fully Integrated Combat System
- ◆ Network Centric Operations
- ◆ Organic Targeting

## Hull & Mobility

*Improved Survivability*

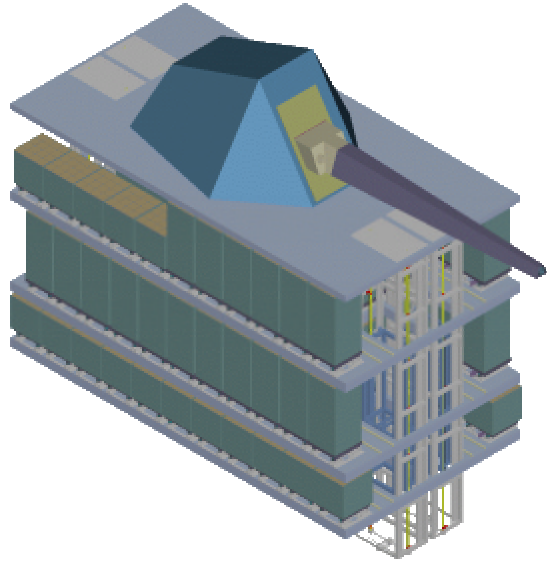
- ◆ Hybrid Double Hull
- ◆ 30 kt Sustained Speed
- ◆ Hangar both Helos & UAVs
- ◆ Two Flight Deck Spots
- ◆ Stern Boat Launch

# DD(X) Flight I Integrated Schedule



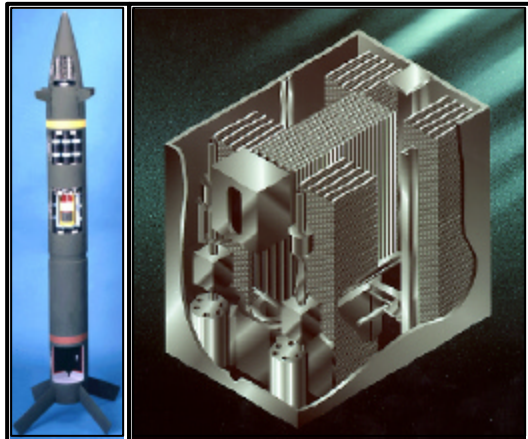
# Advanced Gun and Munition

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- ◆ 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

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- ◆ 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