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## Precision Strike Annual Programs Review

Sea and Land Strike Systems:

"Ship-to-Objective Maneuver enabling technology

Captain Ed Barfield Expeditionary Warfare Directorate (N85)

> Amphibious Warfare Branch 25 April 2007

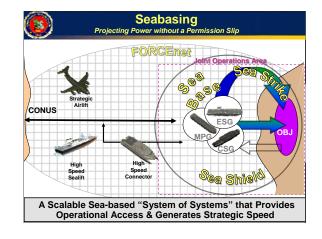


# •Naval Power Projection.... takes the form of strikes employing bombs, missiles, rockets, and

•Naval Power Projection.... takes the form of strikes employing bombs, missiles, rockets, and guns from ships and aircraft and/or placing forces ashore. (NWP 3-09)



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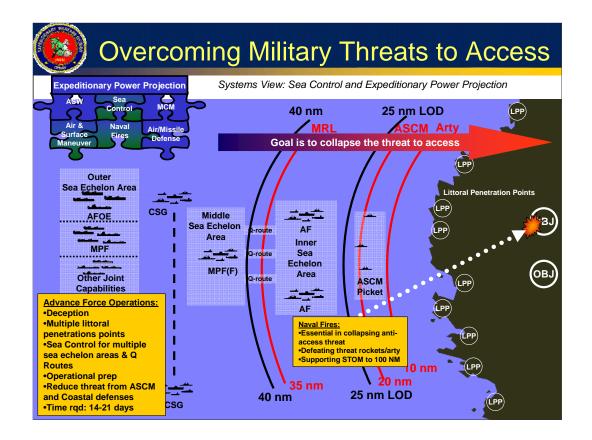
# **Distributed Operations**

The Next Step in Maneuver Warfare

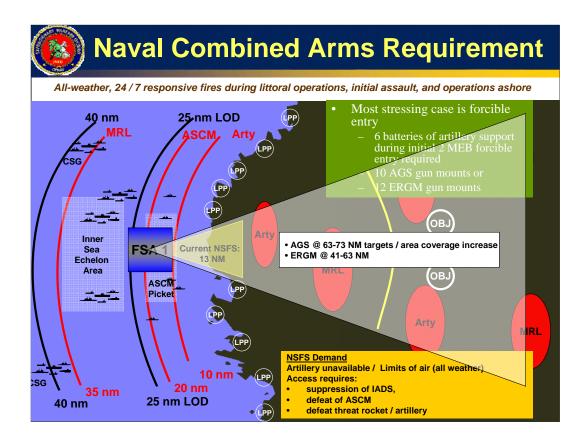
- Adapting our methods
- Remaining a flexible <u>combined-arms</u> force
- Enabling a generation of combatexperienced decision-makers by distributing <u>authority</u>
- Sabase Distributed Ops

- Concept:
  - Create <u>spatial & temporal advantage</u> w/ new capacity for integrated action by physically dispersed units
  - Sense and act across an expanded battlespace
  - Distribute & reaggregate seamlessly
  - Design operations to dynamically <u>link</u> both concentrated and distributed forces
- Exploit:
  - Networked command & control
  - Joint & organic fires

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Expeditionary Operations
"Joint Fires In Support Of Expeditionary Operations in the Littorals"
Identified four capability gaps:
<u>Gap 1</u> : The capability to assign target-weapon pairing, provide target locations, target descriptions, and specify methods of fire
<u>Gap 2</u> : Ability to engage moving point and moving area targets under restricted weather conditions
Gap 3: Ability to engage known and/or identified targets when friendly forces are in close contact or when collateral damage is a concern
<u>Gap 4</u> : The capability to provide volume fires: a large quantity of fires o multiple targets over a short period of time, or a high density of accurate fires in a concentrated area to achieve the desired effects
"The chaos of the future requires the capability to project power ashore ranging from overcoming devastated infrastructure to assisting a friendly people in need of disaster relittor to countering the entire spectrum of armed threats." - OMFTS, 19





### **Challenges & Answers**

#### • Challenges:

- Anti-access obstacles require power projection from over the horizon.
- Artillery not available during initial assault; limited during initial inland operations
- Limits of air (all weather)
- Conventional NSFS is limited by range (13NM) and effect
- Access requires suppression of IADS, defeat of ASCM and rocket / artillery threat
- Answers:
  - All-weather, 24 / 7 responsive fires during initial assault, littoral operations, and operations ashore
  - Combined arms is a required capability for power projection
    - Tactical Aviation
    - Sea-Based Fires
    - Ground Based Fires

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