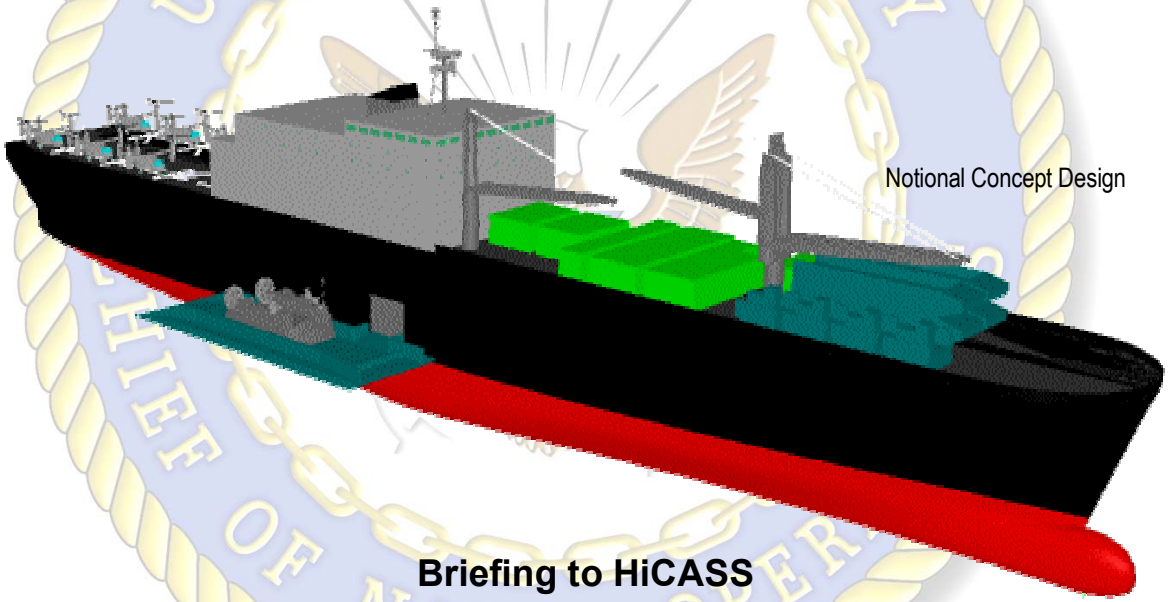
Maritime Prepositioning Force (Future)



Notional Concept Design

Briefing to HiCASS
23 October 2003

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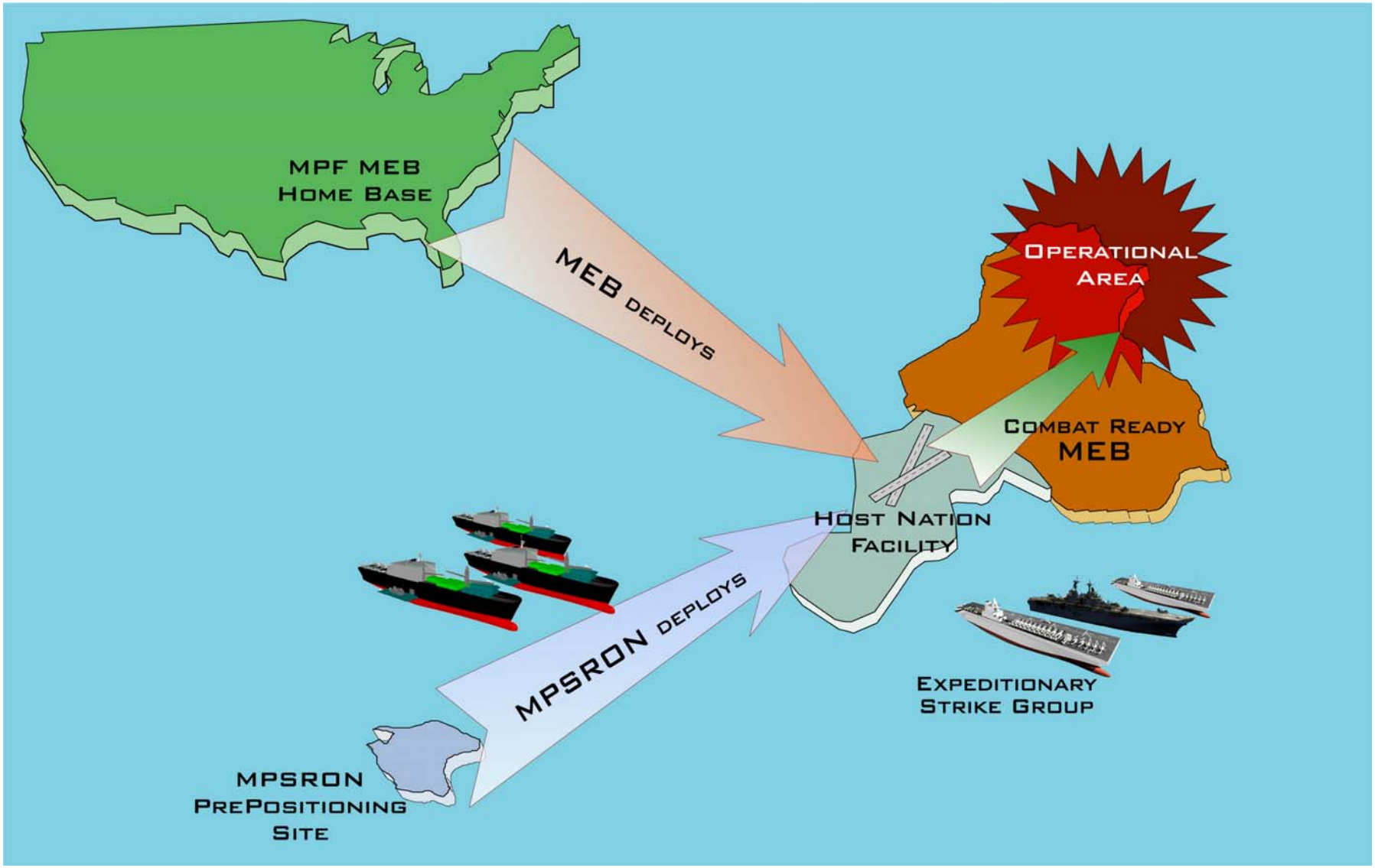
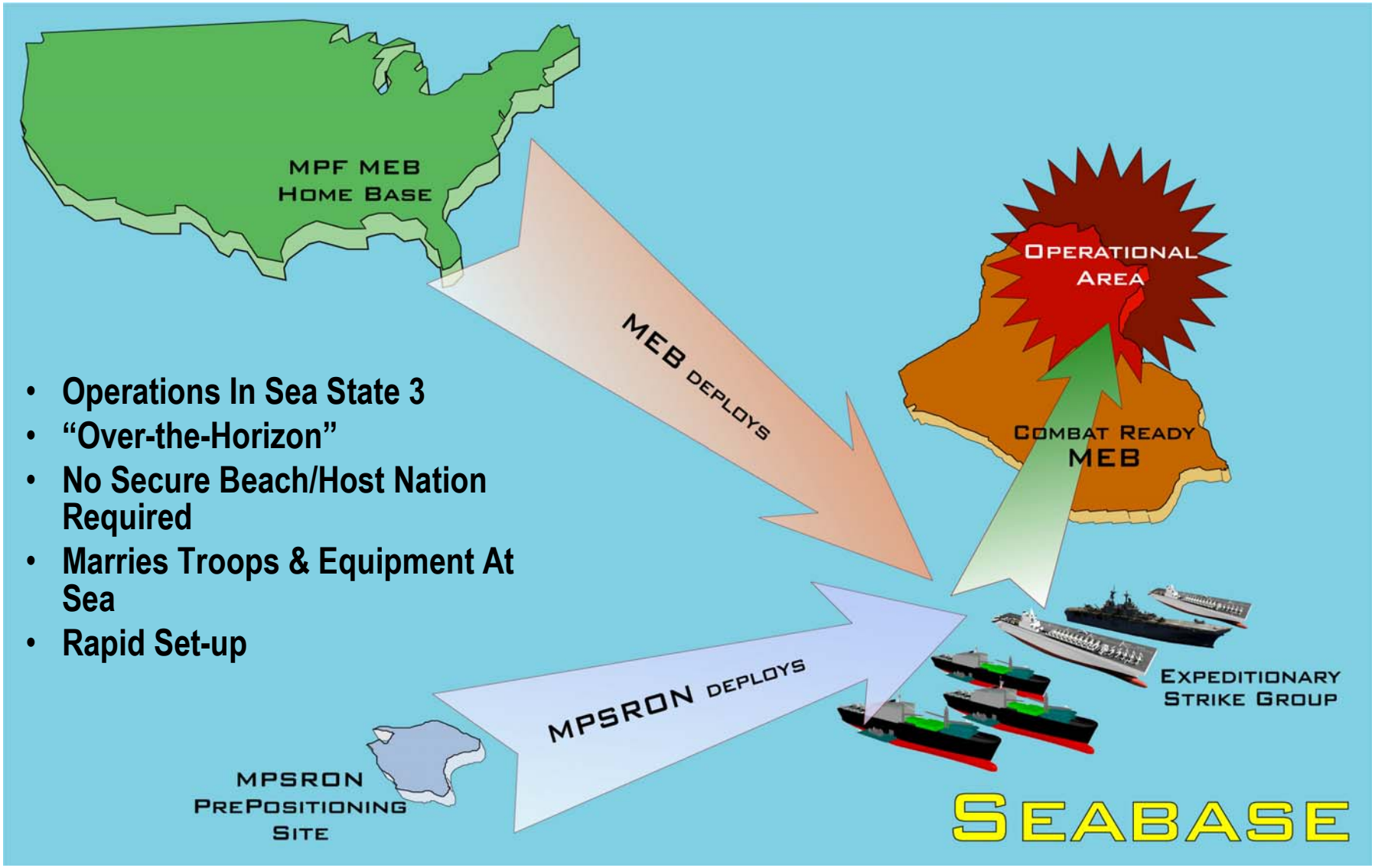
OPNAV N42

Current Employment Scenario with Maritime Preposition Squadron



Future Employment Scenario with MPF(F)



- Operations In Sea State 3
- "Over-the-Horizon"
- No Secure Beach/Host Nation Required
- Marries Troops & Equipment At Sea
- Rapid Set-up

MPF(F) MNS
Required Operational Capabilities

- **Force Closure** – En route arrival and assembly of forces
  - Troop deployment
  - Troop accommodations
  - Shipboard assembly and staging area
  - Aircraft basing
- **ATF Interoperability** – Rapid reinforcement of the ATF assault echelon
  - Air and surface assault craft interface
  - Selective cargo offload capability
- **Sustainment** – Conduct sea-based logistics for Naval forces
  - Selective offload for cube cargo
  - Air and surface resupply of ground combat forces
  - Seabase replenishment (from CLF or commercial shipping)
- **Reconstitution and Redeployment** – In-theater, at-sea
  - Seabase replenishment (from CLF or commercial shipping)
  - Equipment recovery and reconfiguration to support follow-on missions
  - Vehicle and air maintenance facility
- **Other capabilities**:
  - Joint C4I to allow interoperability
  - Medical care consistent with the mission

MPF(F) Specific Transformational Characteristics

- External surface craft interface
- Reconfigurable
- Resupply using commercial container ships
  - Does not require growth of CLF
- Provides selective offload of mission-tailored packages
- Permits troops and equipment to be married at sea
- Enables unlimited sustainment of Marine Corps operations ashore
- Greatly enhances reconstitution & redeployment operations
- Provides platform with the potential for meeting multiple mission requirements (being evaluated in ongoing AoA)
  - C^2 Variant
  - Level 3 Afloat Medical Care
  - Mine Countermeasures (MCM) Support
  - Afloat Forward Staging (SOF/EF)

Performs Operations Over the Horizon in Open Ocean

FY04 Presidential Budget

President's Budget FY 2004	FY03	FY04	FY05	FY06	FY07	FY08	FY09	Total
Acquisition $M (NDSF)	0.0	0.0	0.0	0.0	0.0	1,130.7	2,413.8	3,544.5
Quantity (NDSF)						1	2	
R&D $M (NDSF)	5.1	3.9	9.6	9.6	10.0	12.5	8.0	53.6

Additional R&D requirements of $208M have been identified in the areas of:

- **Risk Mitigation ($51M)**
- **Additional Risk Mitigation ($62M)**
- **Mission Variants ($95M)**

Timing of R&D Requirements

- Timing of additional R&D funding is critical to support the input of results into the Functional Design prior to down select and contract award.
- Research is essential prior to turning over to industry:
  - Capabilities not performed in industry today in the manner needed:
    - Skin to skin for fuel lightering only
    - Automated retrieval systems only used in port
  - Sea State 3 not achievable in Military today for surface interface except via welldeck

Program Approach to Technology Development

- Leverage existing commercial technologies for application to MPF(F).
- Mine existing Navy, Marine Corps and other Services' technology investments for application to MPF(F).
- Reduce risk by performing land-based and at-sea demonstrations of applied technologies.
- Technology Development Strategy (TDS) will summarize MPF(F) Program plan.

Summary

- Areas of risk mitigation address capabilities not found in industry or military today.
- Failure to accomplish research to mitigate risk will result in risk transferred to the contractor, with associated cost impacts.
- New missions have been proposed. If required post-AoA, budget must be in place to support contract award timeline.

Investment now mitigates future risk