

MPF(F) Information Brief to HiCASS

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PMS 325N

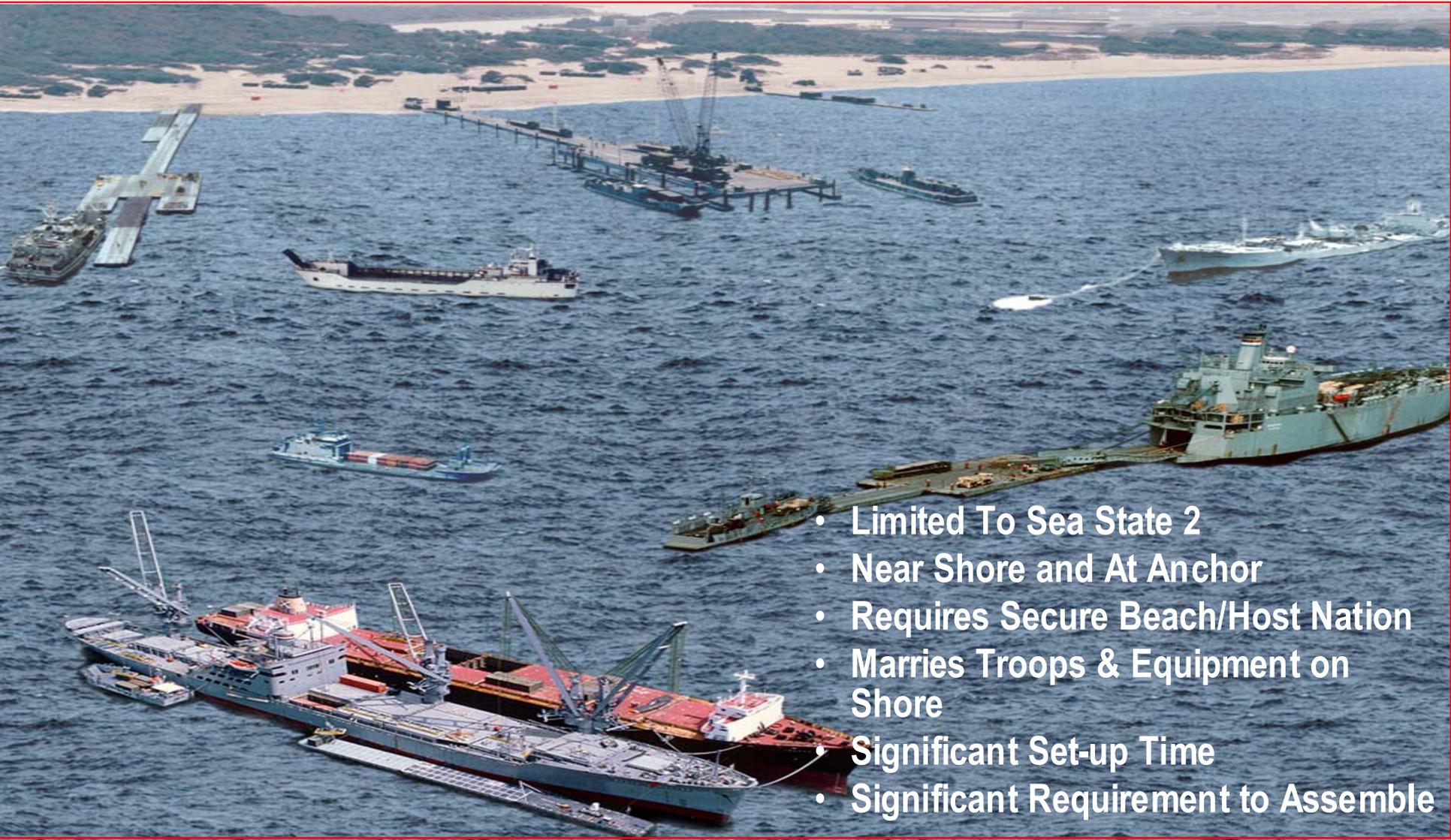
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Logistics Over The Shore: The Way We Do It Now



- Limited To Sea State 2
- Near Shore and At Anchor
- Requires Secure Beach/Host Nation
- Marries Troops & Equipment on Shore
- Significant Set-up Time
- Significant Requirement to Assemble



MPF(F) Specific Transformational Characteristics

- External surface craft interface
- Reconfigurable Spaces
- Resupply using commercial container ships.
- 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

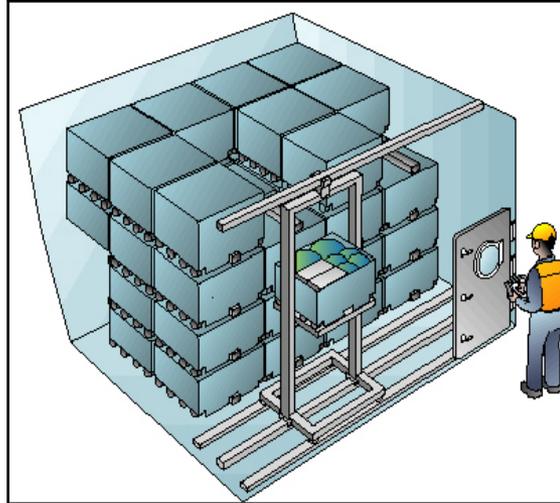
Performs Operations Over the Horizon in Open Ocean



Some Capabilities Needed



Strike Up/Down



Automated Warehousing



At-sea Arrival & Assembly



Motion Mitigating Cranes



Small Craft Interface



Underway Replenishment



Possible Design Features

- **Aviation facilities**
 - Flight deck
 - Hangar
 - Dedicated maintenance space
- **Vehicle facilities**
 - RO/RO stowage
 - Maintenance
 - Assembly area
 - ILP
- **Cargo**
 - Pallet stowage
 - TEU stowage
 - Breakout assembly areas
 - Transfer deck
- **Cargo handling**
 - Cranes (heavy lift)
 - RAS (heavy lift UNREP)
 - VERTREP
 - Elevators
 - Bridge cranes
 - Fork trucks
- **Habitability**
 - MSC, NSE, MEB
- **Reconfigurable at sea**



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).
- Coordinate with ONR Ex LOG FNC
- Reduce risk by performing land-based and at-sea demonstrations of applied technologies.

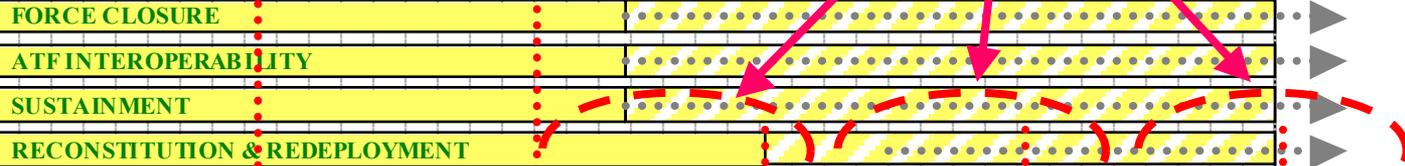


Technology Programs - Notional Timeline

FNC Transition Examples

- Heavy UNREP / High Capacity At-Sea Seabase Sustainment (HiCASS)
- Real-Time Tracking of Own Ship / Platform Motions & Those of the Other Ship / Platform Involved in the At-Sea Transfer
- Motion Compensating Transfer Systems

Notional Technology Focus Areas:



Notional Program Milestones:

