



# LMI

GOVERNMENT CONSULTING

THE OPPORTUNITY TO MAKE A DIFFERENCE HAS NEVER BEEN GREATER



# Sea Base Logistics Optimization

## CCDoTT Quarterly Review

### John Strott

6 Jun 07

# Agenda

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- Our study goals
- Who we are
- Our study areas
- What we are doing

# Seabasing – ongoing debate

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“We’re thinking of this, both the Navy and the Marine Corps, as the sea base in the aggregate. You need an assault capability. You need an echelon, a follow-up echelon, a follow-on echelon capability. How you meet the requisite capabilities and capacity for all of those -- that’s the debate. How you meet it, sequence it, build it and work it with industry to do all that right when it comes to shipbuilding -- that’s what we’re discussing.”\*

Vice Adm. Jonathan Greenert

Deputy Chief of Naval Operations for Integration of Capabilities and Resources

\* Article written by Christopher J. Castelli May 7 2007



# Our Study

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- Identify improvements in concepts, technology and processes affecting Seabasing
- Provide independent and objective recommendations that improve Seabasing operational capabilities and efficiency



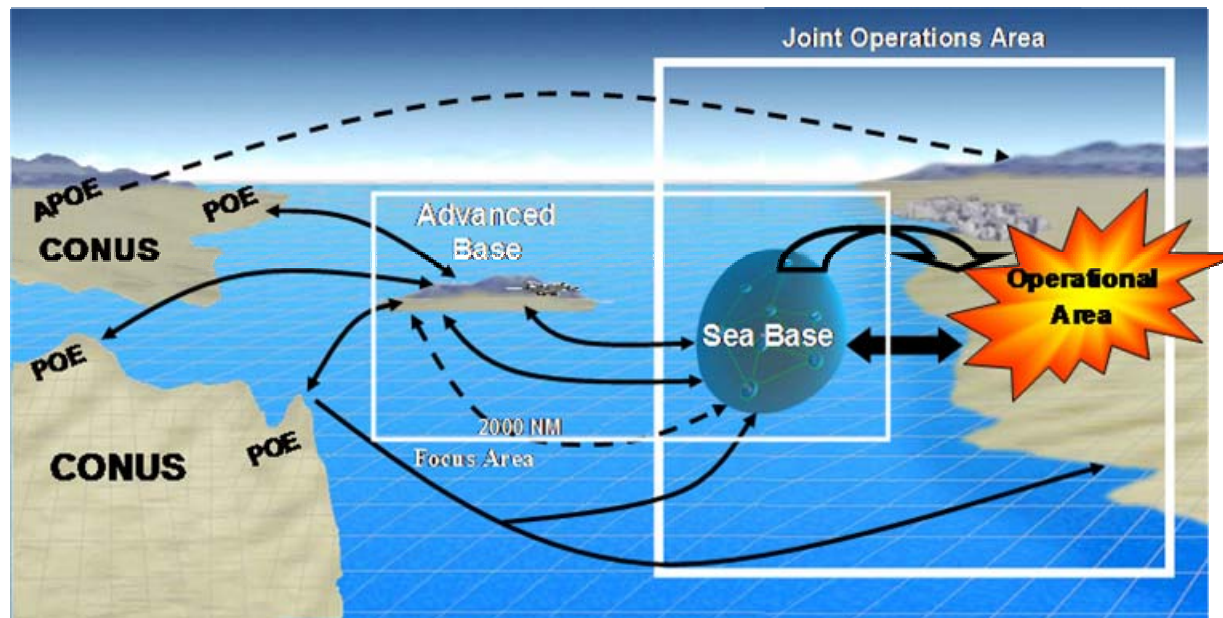
# Who We Are...

Senior Advisory  
Group

- Bill Crowder – PM
  - Army FCS
  - Seabasing
- John Strott – PL
  - Navy/JS/MSC
  - Seabasing
- Larry Glicoes - AT
  - Army
  - Modeling & analysis lead
  - Seabasing
- Nick Rudman - AT
  - Modeling
- Ernesto Febus- AT
  - USMC
  - Modeling
- John Fasching - AT
  - Army, JS-J4
  - Logistics Analysis
- Ed Savacool – AT
  - Modeling
  - Commercial shipping/ports
- John Thompson – DBM
  - Data repository

# Three Major Study Areas

- MPF (F) days of supply analysis
  - 2015 MEB & MPF(F)
  - LBS/Person/Day for all 10 Classes of Supply
  - Is MPF (F) load-out sufficient until activation of sustainment pipeline
- T-AKE employment options for MPF(F) sustainment of 2015 MEB and Army BCT
- Advanced base throughput and cargo handling requirements



Note: Map not to scale.

# CCDoTT Cooperative Planning

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- Leverage related CCDoTT projects
  - Strategic Mobility 21 (SM 21)
  - Agile Port System (APS) – PNW Demonstration
- Learn from CCDoTT work on sustainment modeling and agile port process improvement work
  - Use of modeling for cargo movement
  - Agile port transshipment of cargo
  - End-to-end sustainment incorporating advanced technology and innovative processes



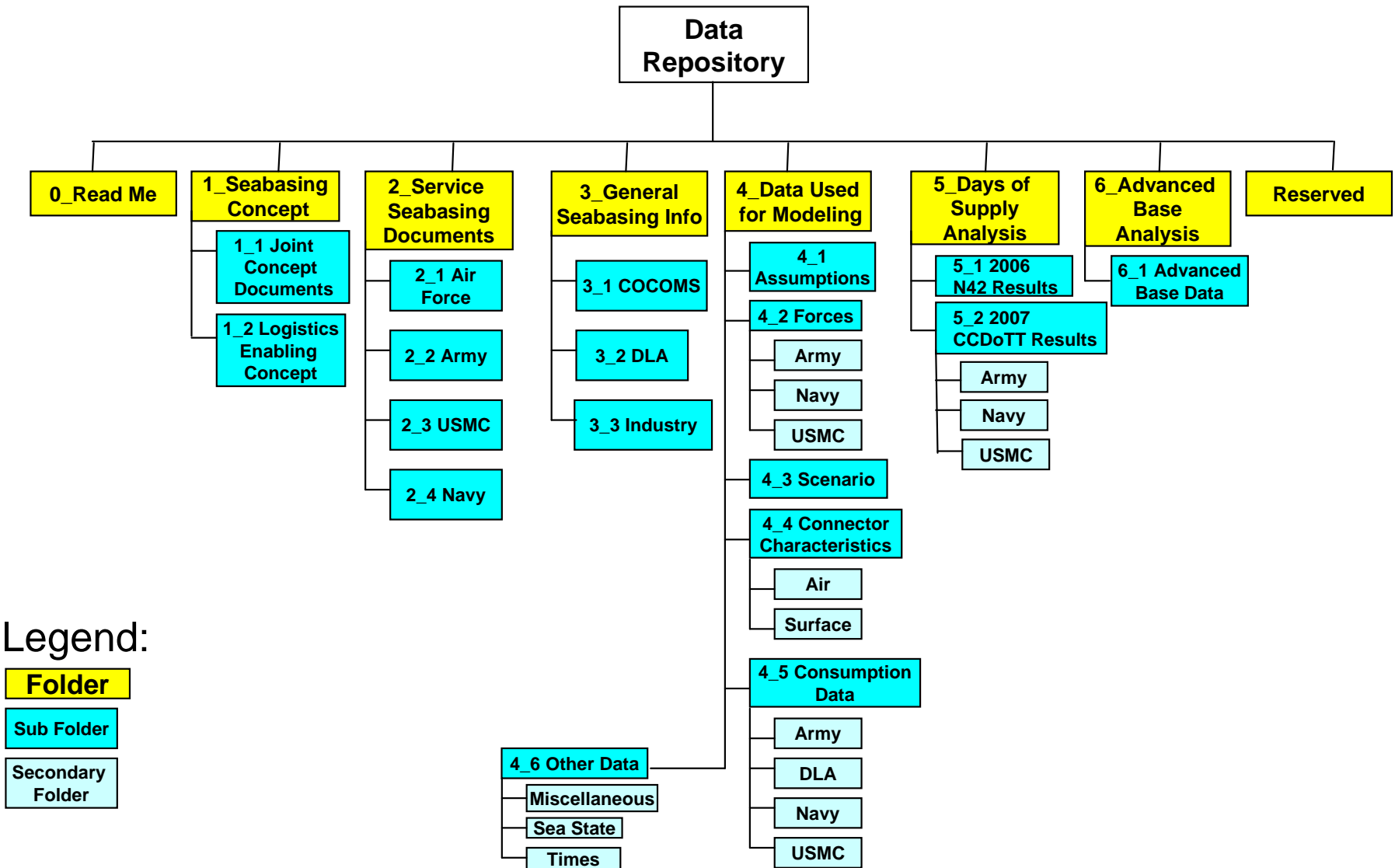
# Data Collection Process

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- Get inputs from key stakeholders
  - OPNAV N42 and MCCDC
  - Army G3/4 and ARCIC
  - USTRANSCOM and DLA
  - SM 21
- Obtain data and models
  - Sea base consumption data
    - DOS requirements for sea base ships, 2015 MEB, Army BCT
    - Sustainment requirements
  - Sea base process models
    - e.g., JFAST, EXTEND, others
- Identify changes in Seabasing concepts
  - Scenarios
  - Force structure
  - Consumption rates



# Data Repository - Structure



# DOS Analysis

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- Base lining using JFAST sustainment generator
  - Service provided consumption factors
  - Scenario driven OPTEMPO
  - Looking for better resolution on Army requirements
    - Different force constructs (ABN, Stryker, etc.)
- Compare with DLA provided data sets
  - Actual experience
  - Demand streams and supply support



# Advanced Base Analysis

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- Collect major advanced base data
  - Infrastructure attributes
  - Cargo handling & other process requirements
- Use advanced base data
  - Develop Unified Modeling Language (UML)
    - Enterprise architect - Use cases and activity
  - Modify & configure existing models
    - Southern California Agile Supply Network (SCASN)
    - T-AKE ship loading
    - Multi-modal terminal
    - Agile Port System (APS)



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# Questions?



# Back ups

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# Our Tasks and Issues

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- Task 1. Planning and discovery
  - Collect information and data (simultaneous for all tasks)
  - Produce detailed plan to complete tasks and achieve project objectives
- Task 2. Days of supply (DOS) analysis for 2015 MEB and MPF(F)
  - Select baseline scenario
  - Identify DOS requirements and planning factors for establishment of sustainment pipeline
  - Develop process model & select modeling tool
  - Develop and assess DOS options and provide recommendations
- Task 3. Analysis of MPF (F) T-AKE employment options
  - Identify T-AKE requirements for shuttling sustainment cargo to MPF(F)
  - Refine the model developed in Task 2 for T-AKE shuttle analysis
  - Develop and assess T-AKE shuttle options and provide recommendations
- Task 4. Advanced base Seabasing sustainment pipeline analysis
  - Conduct macro-analysis of advanced base throughput and cargo transshipment
  - Refine model from Task 3 to address advanced base sustainment analysis
  - Develop generic advanced base requirements to support the sea base
- Task 5. Draft report
  - Deliver final report and data repository

