



# **Military and Commercial Agile Supply Network Optimization and Security**

MOU #07-291604, FY 04 Project 5, Program Element 3.20

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# Project Objective

- Integrate the Agile Port System (APS) components and operational concepts to support both commercial and military requirements.
- Develop and document the operational concept vision

# Agile Port System Components

- An efficient marine terminal that –
  - Maximizes on dock rail capacity
  - Incorporates best operating practices for military and commercial cargo handling; and
  - Minimizes mutual military-commercial interference.
- Inland multi-modal freight hub functioning as an agile force deployment and distribution logistics support facility;
- Dedicated surface transportation link
  - Short haul rail and dedicated truck lanes
- Information technology network architecture including:
  - Electronic Data Interchange (EDI);
  - Automatic Equipment Identification (AIT) and Radio Frequency Identification (RFID) tag readers; and
  - Supports a Network-centric multi-agent decision support system).

# Defense Secretary Donald Rumsfeld's Challenge “10-30-30” Deployments

## New Deployment Goals

- Deploy to a distant theater in 10 days, defeat an enemy within 30 days, and be ready for an additional fight within another 30 days.
- Objectives are the new metric for all Army, Navy, Air Force and Marine Corps war-fighting concepts and future investments.

# Logistics Lessons Learned in Operation Iraqi Freedom

- Outbound port delays in vessel loading (trim and stability)
- Low vessel stow factors (52%)
- Loss of In Transit Visibility (Class 5, Class 9)
- Bad or No Data entered on RFID tags on containers
- Little pre-deployment logistics training of National Guard/Reserves
- Little supply network collaboration
- Adverse impacts upon unit readiness, command and control and force protection

# Military Utility

## An Agile Port System

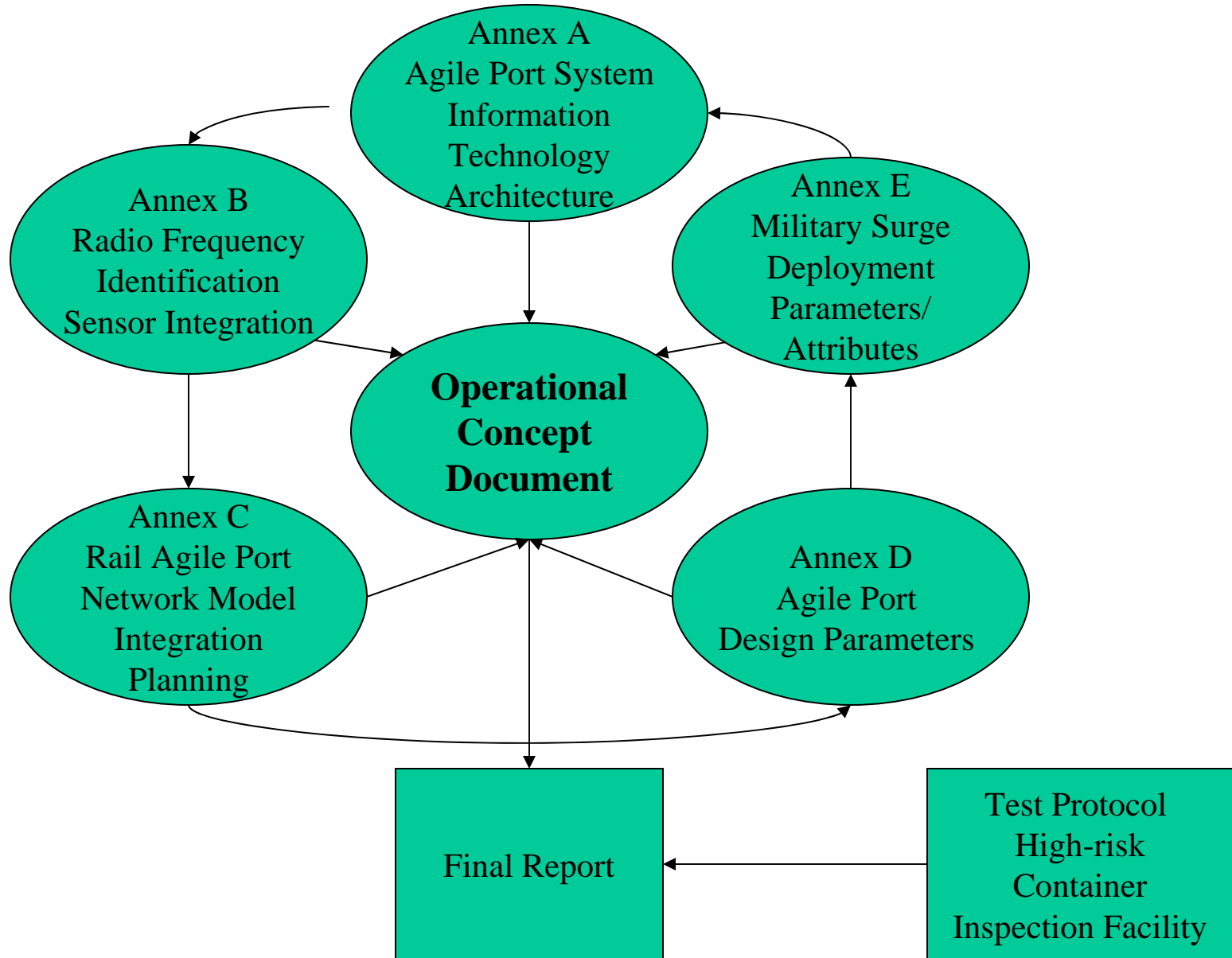
- Provides Functional Capability to Support DOD Deployment process objective of 10/30/30 for Rapid Deployment
- Functions as Logistics Power Projection Support Facility through marshaling, staging, synchronizing movement to APOE/SPOE
- Functions as Joint Sea Base Logistics Buffer
- Prototype Test Bed for Advanced Logistics Concepts without interference with commercial port operations (e.g. Sense and Respond Logistics)

# Military Communities of Interest

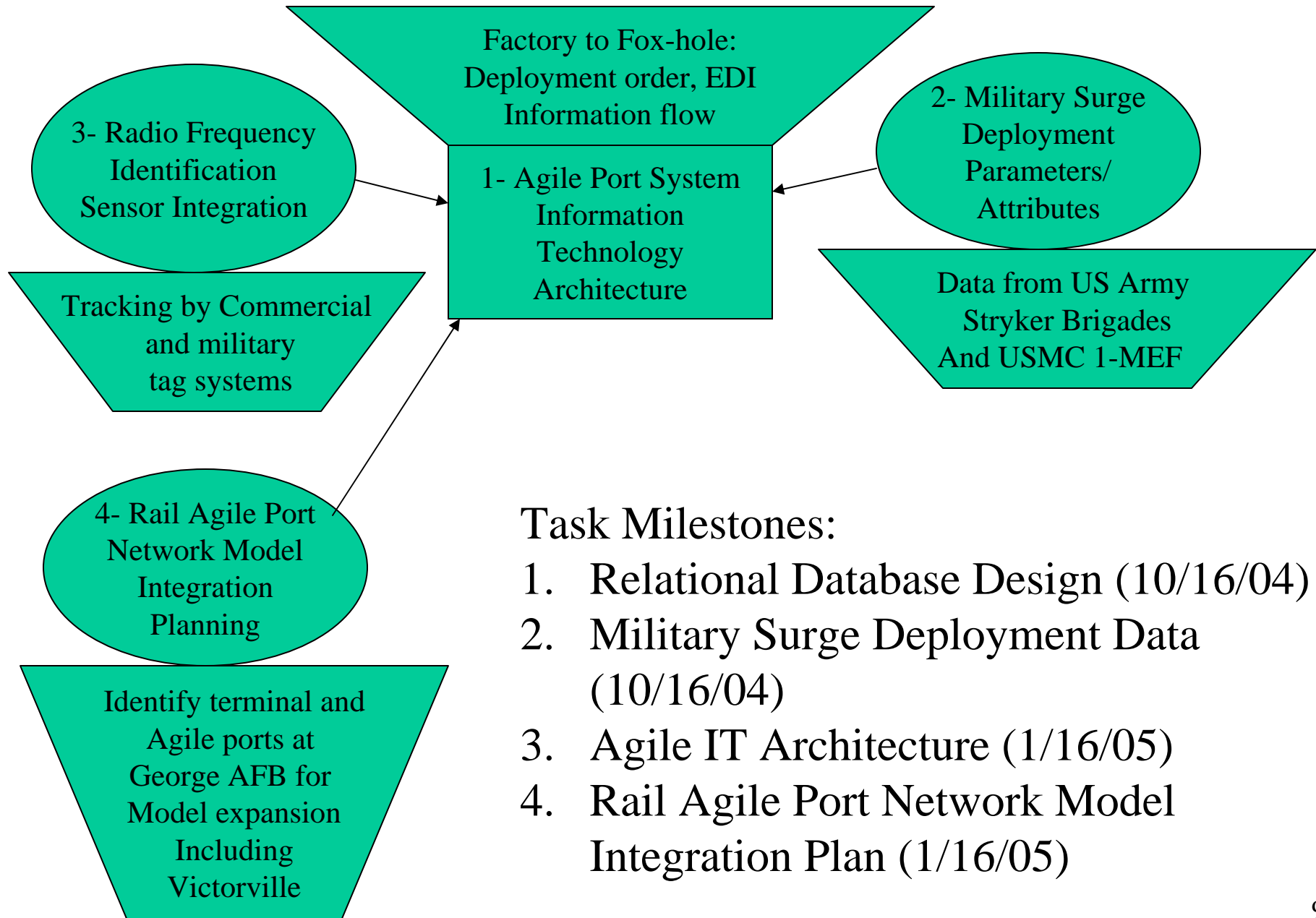
- JCS J4 (Focused Logistics Owner)
- Joint Forces Command (Deployment Process Owner)
- USTRANSCOM (Distribution Process Owner)
- Defense Logistics Agency
- US Marine Corps Combat Development Command (MCCDC)
- US Army Combined Arms Command (CASCOM)
- US Marine Corps Warfighting Laboratory/ONR
- MARFORPAC

# Military and Commercial Agile Supply Network Optimization and Security

## Overview of Tasks



# Military and Commercial Agile Supply Network Optimization and Security



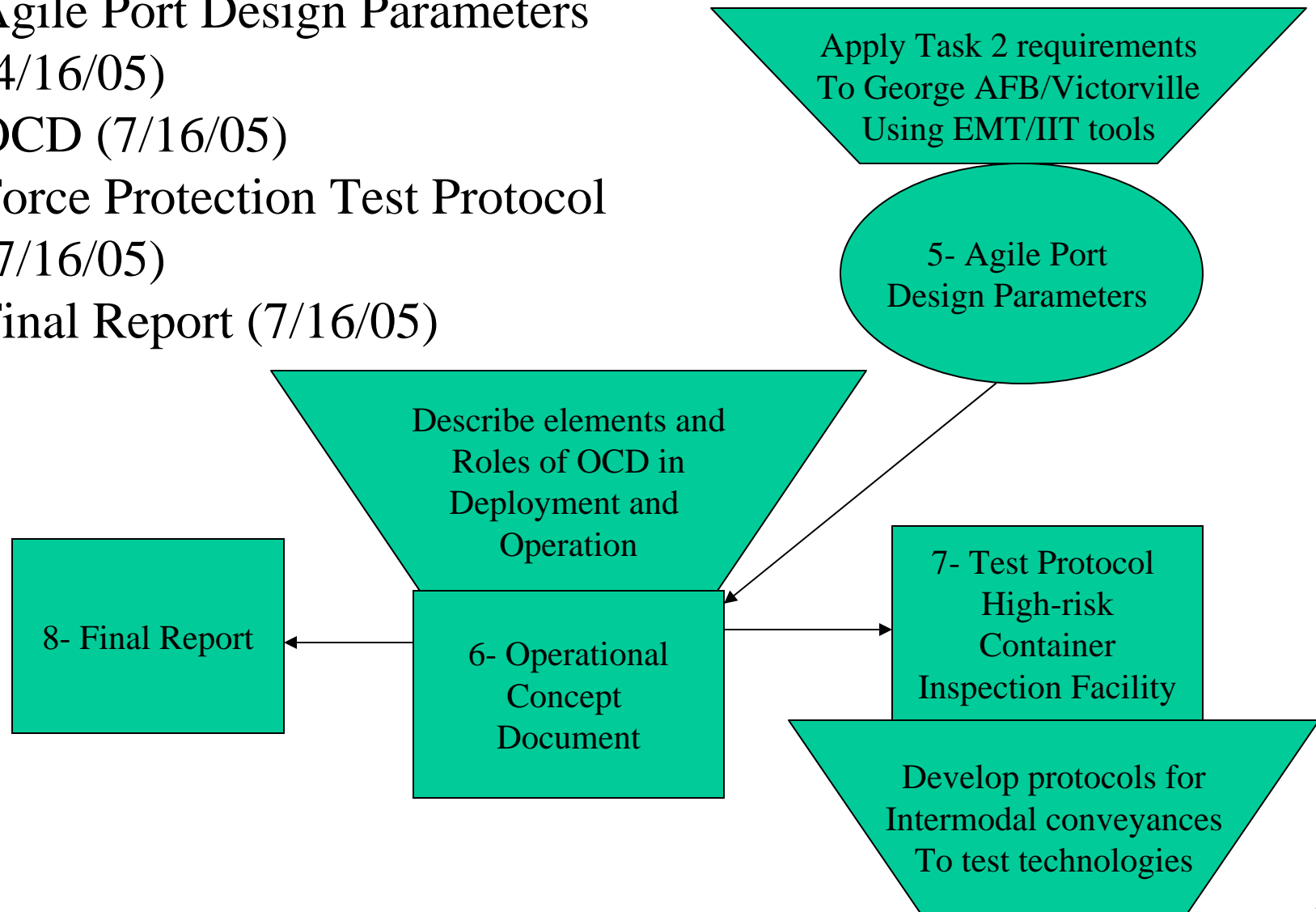
## Task Milestones:

1. Relational Database Design (10/16/04)
2. Military Surge Deployment Data (10/16/04)
3. Agile IT Architecture (1/16/05)
4. Rail Agile Port Network Model Integration Plan (1/16/05)

# Military and Commercial Agile Supply Network Optimization and Security

## Task Milestones

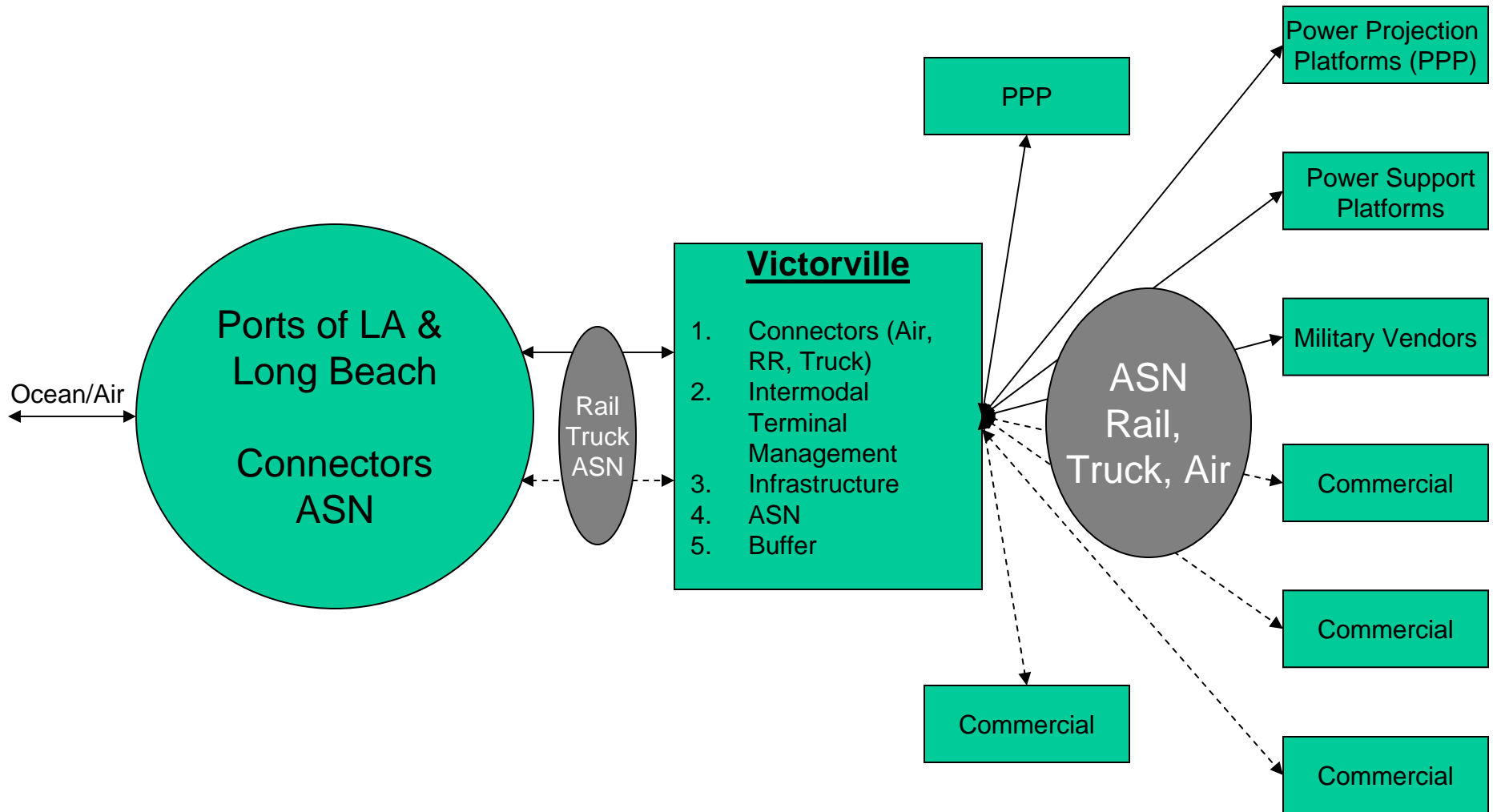
5. Agile Port Design Parameters (4/16/05)
6. OCD (7/16/05)
7. Force Protection Test Protocol (7/16/05)
8. Final Report (7/16/05)



# Project Status

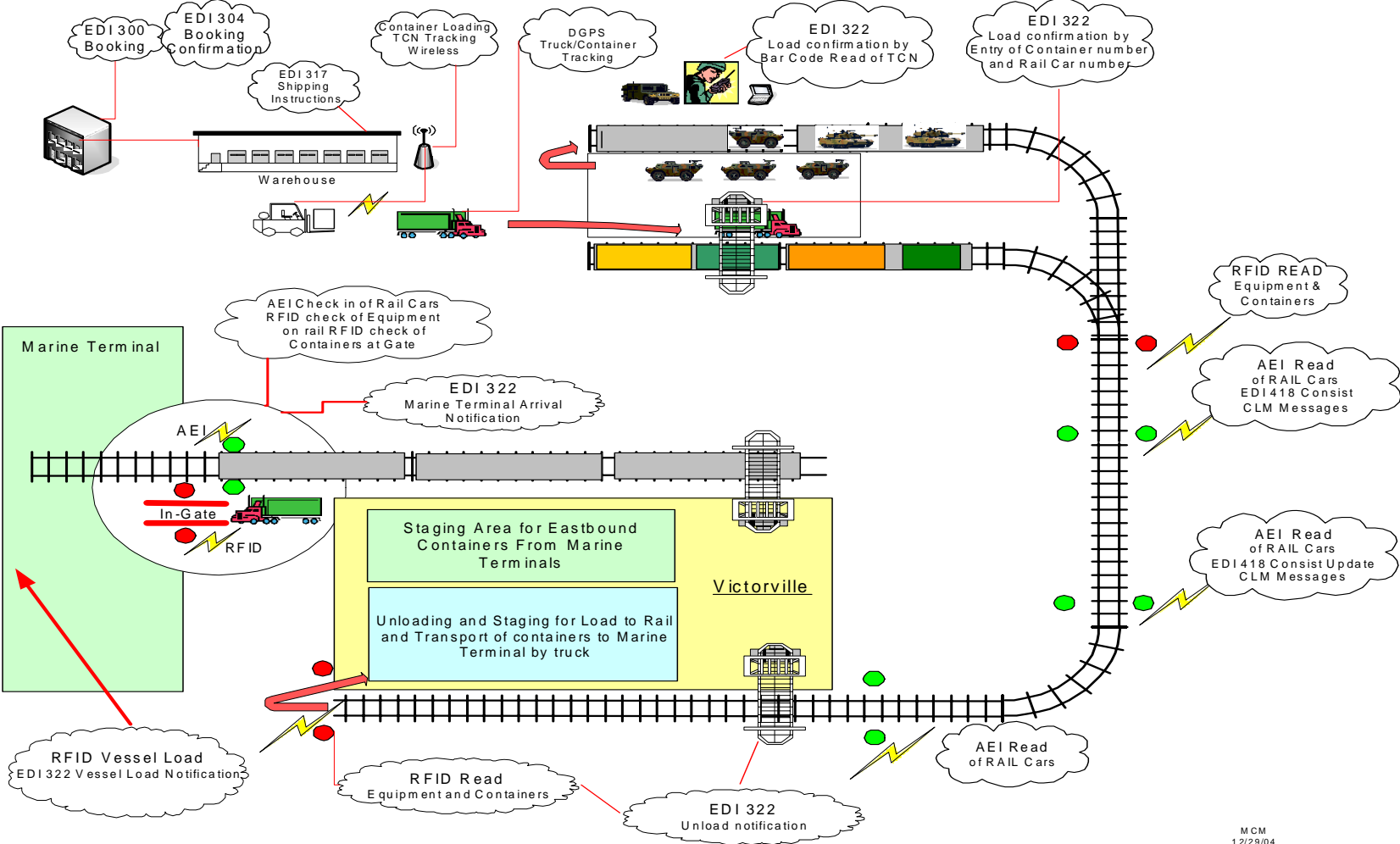
No.	Deliverable Title	Due Date	Status (Open/Closed)	% of Completion
1	Relational Database Design/EDI Message Sets	16 Nov 04	Closed	100%
2	Military Surge Deployment Data	16 Nov 04	Closed	100%
3	Interim Progress Review Meeting at mid year	16 January	Open	0%
4	Agile IT Architecture Report	16 Feb 05	Closed	100%
5	Rail Agile Port Network Model Integration Plan	16 Feb 05	Closed	100%
6	Agile Port Design Parameters	16 May 05	Open	50%
7	Operational Concept Document	16 July 05	Open	50%
8	Force Protection Test Protocol	16 July 05	Closed	100%
9	Final Report	25 July 05	Open	20%
10	Final Program Management Report	25 July 05	Open	0%

# Agile Port System Flow Diagram



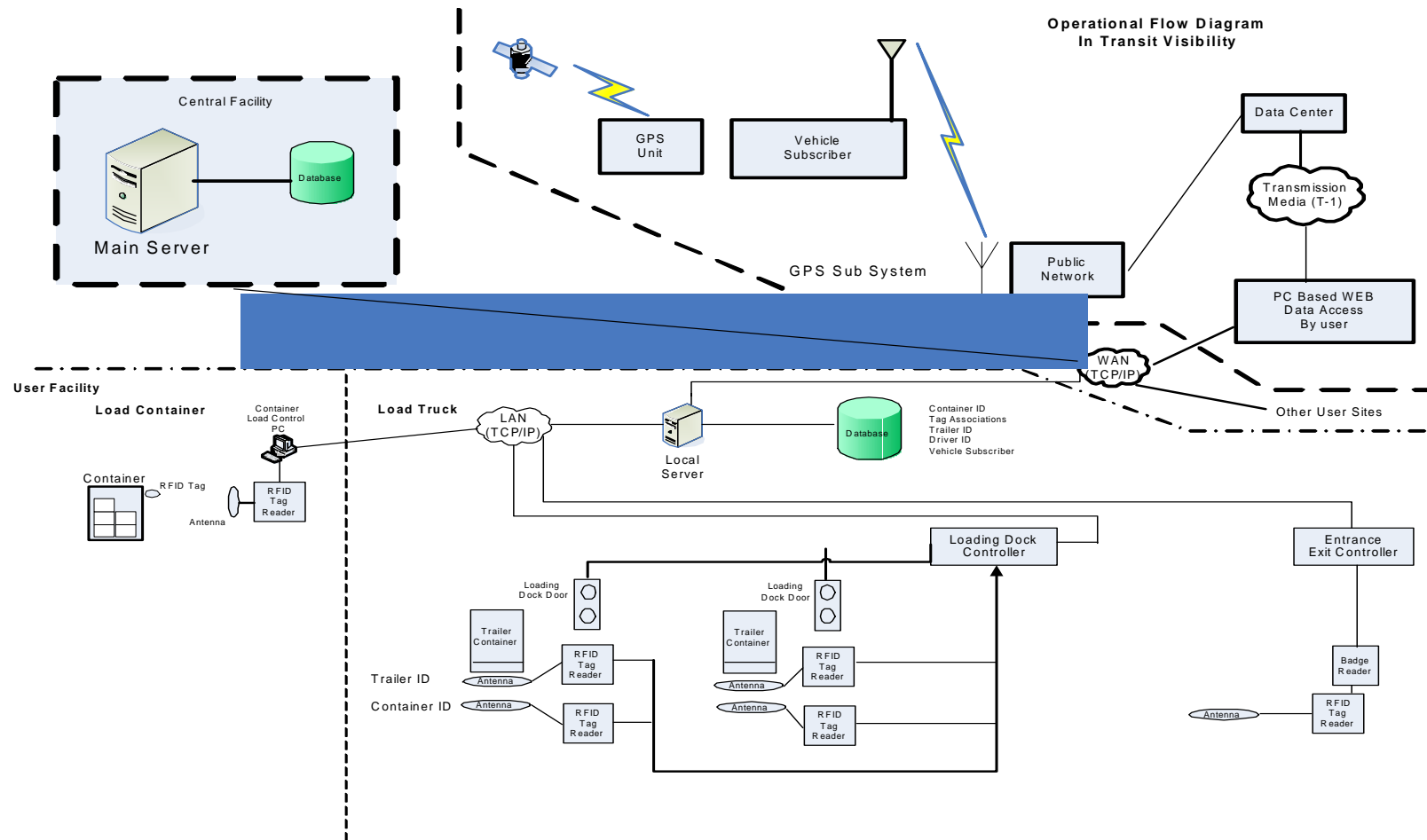
ASN – Agile Supply Network  
Data & info exchange

# Agile Supply Network Integration



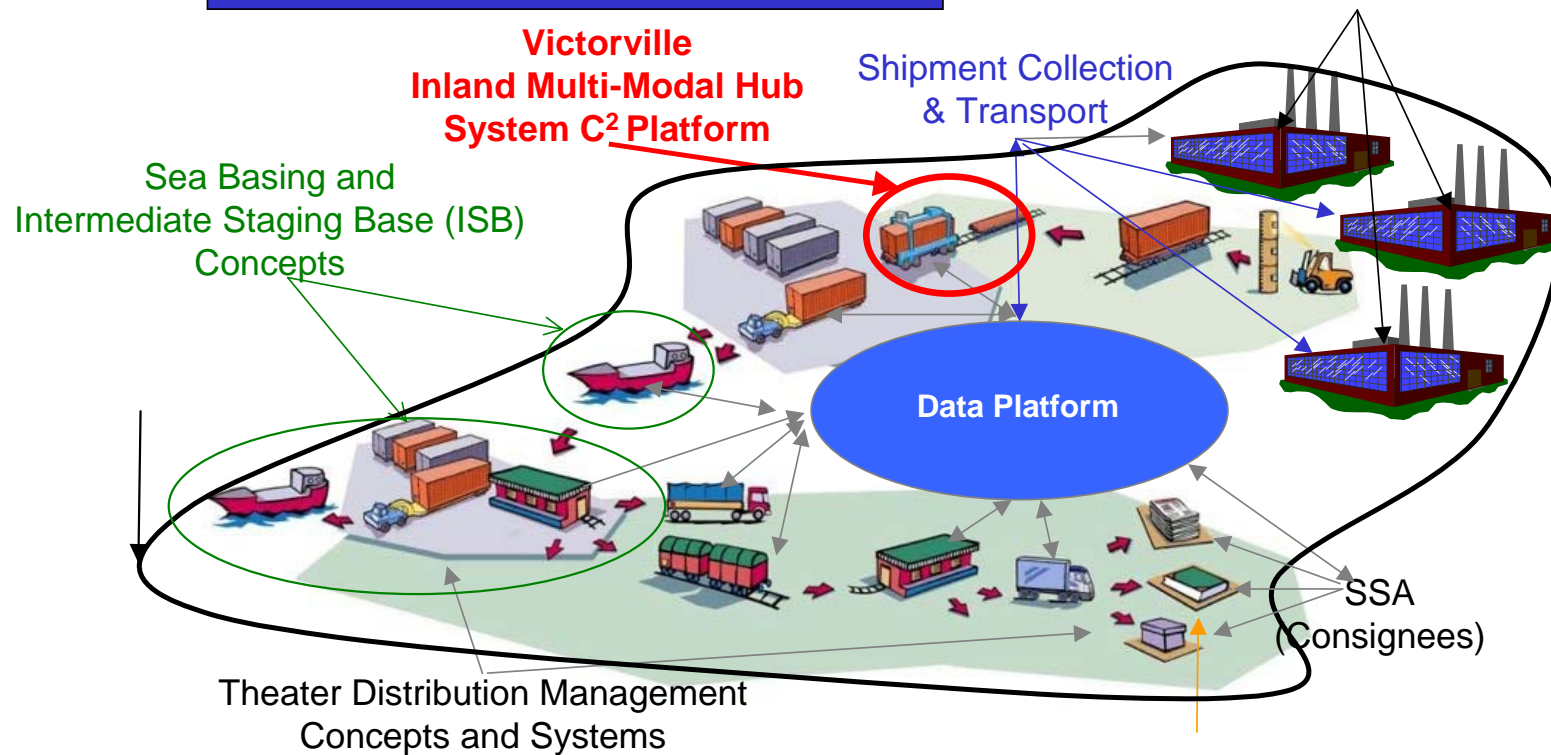
MCM  
12/29/04

# Agile Port Information Technology Architecture



# Agile Port System Demonstration

System Provides  
“Supply Chain Agility”



**Supports - Surge Force Deployment, Sustainment, Follow-on Forces, & Retrograde (units, repairables, transportation assets).**

# *Strategic Mobility 21 – Technology Demonstrations Project Process Overview*

