

Air Force Materiel Command

War-Winning Capabilities ... On Time, On Cost



Enterprise View... Warfighter Focus

Brig Gen Frank Bruno

HQ AFMC/A4

7 Nov 07

Integrity ~ Service ~ Excellence

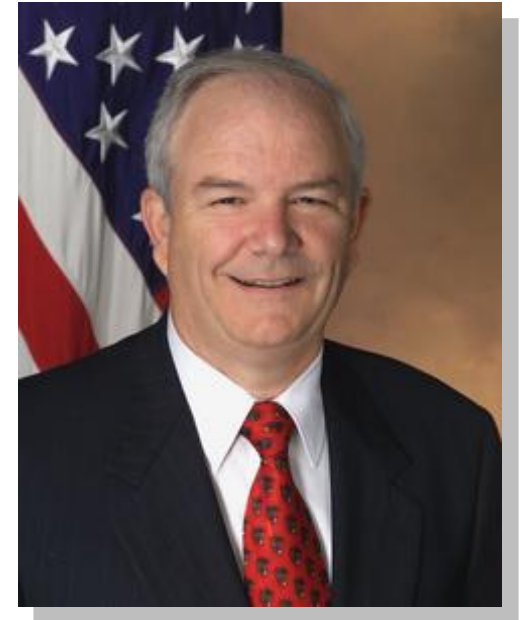


SECAF Vector

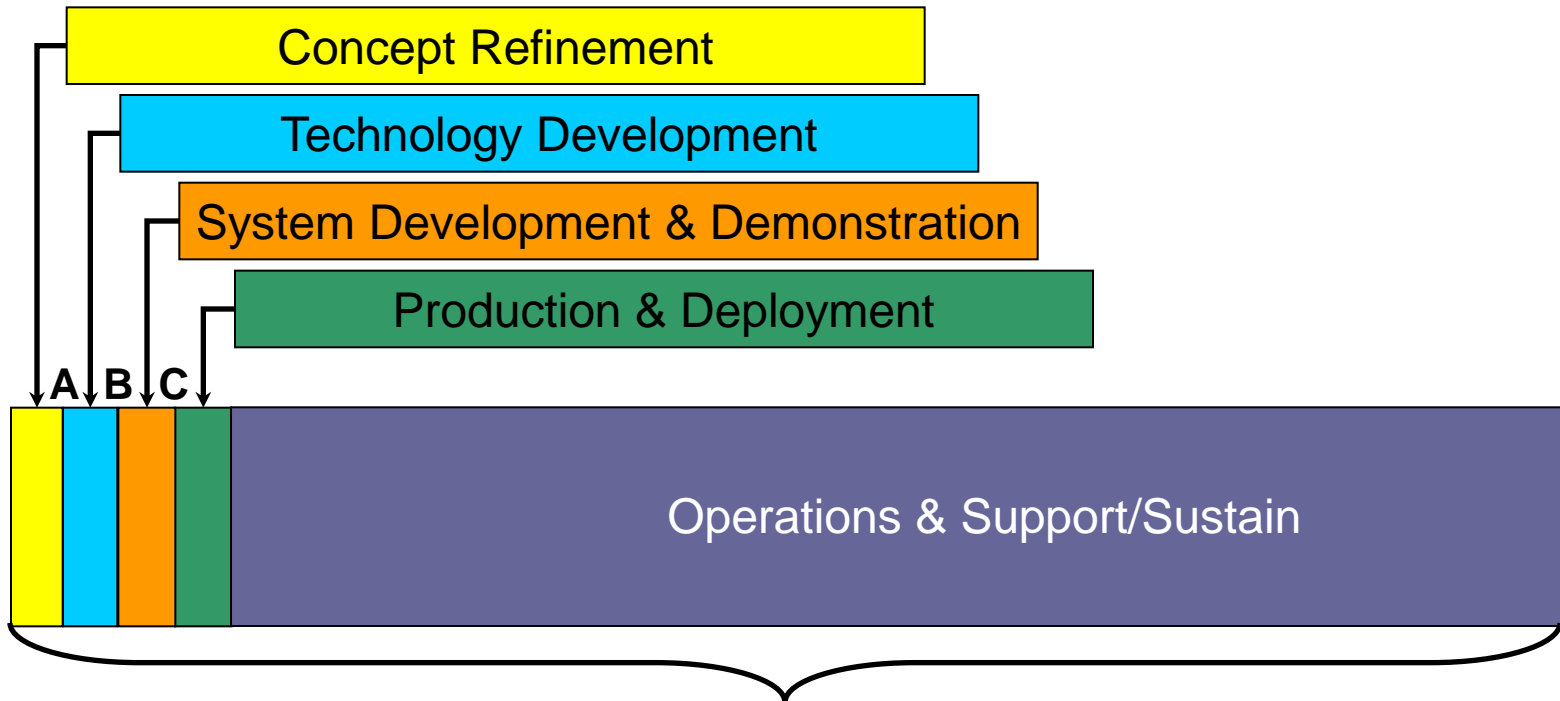


“We will fund transformation through ... organizational efficiencies, process efficiencies, reduction of legacy systems and manpower while sustaining GWOT and ongoing operations in support of the Joint Fight.”

- Michael W. Wynne, SECAF



Overview



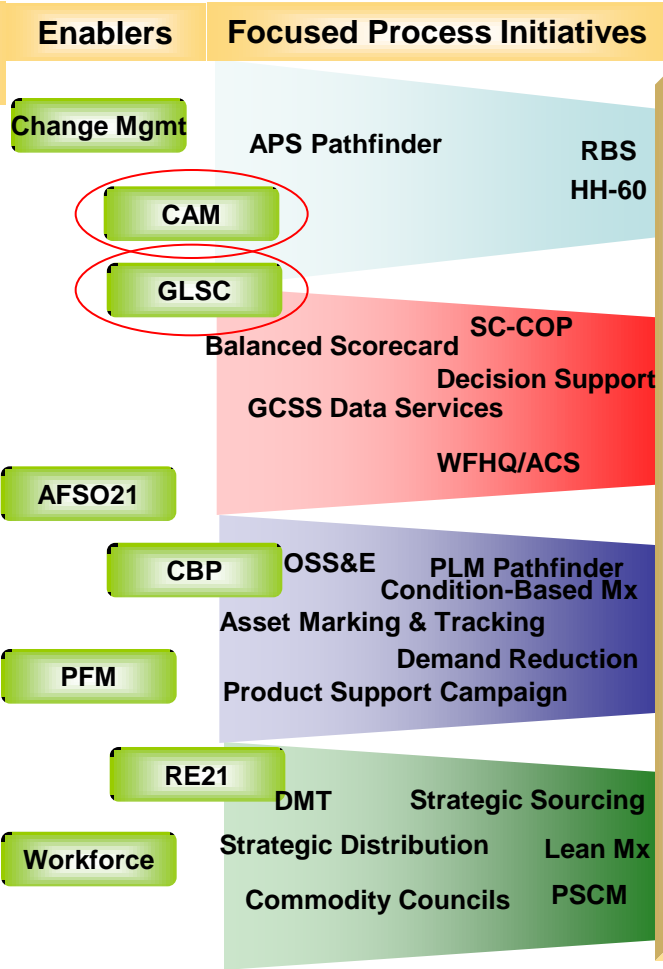
- Integrated Life Cycle Management
- Product Support Requirements & Acquisition-Logistics Workforce
- Business Development/Partnering & Strategic Source of Repair
 - GLSC, CAM, ECSS, RE21, AFSSO21, Mx Organization
 - Mission Execution & Risk Mitigation



eLog21 Campaign Initiatives



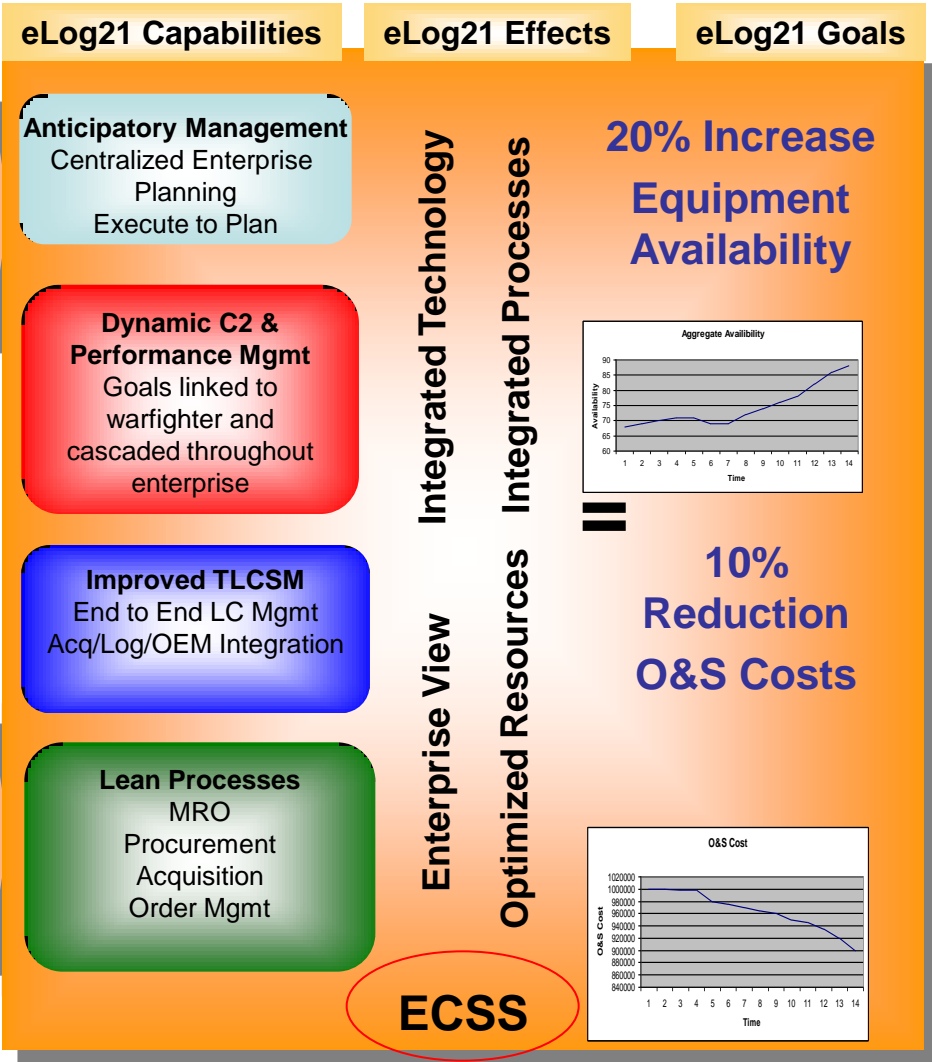
Right Place, Right Time, Every Time
eLog21 tenets & LogEA initial review



Requirements

LogEA detail review

Requirements



ECSS



GLSC Vision / Mission



Vision – The Warfighter’s choice for Air Force Supply Chain Management

Mission – Air Force Supply Chain Management Capability, providing ... Enterprise planning and strategy, Global command and control ... Single focal point to the warfighter ... in support of our full range of military operations



Motto: When we win, the Warfighter wins!

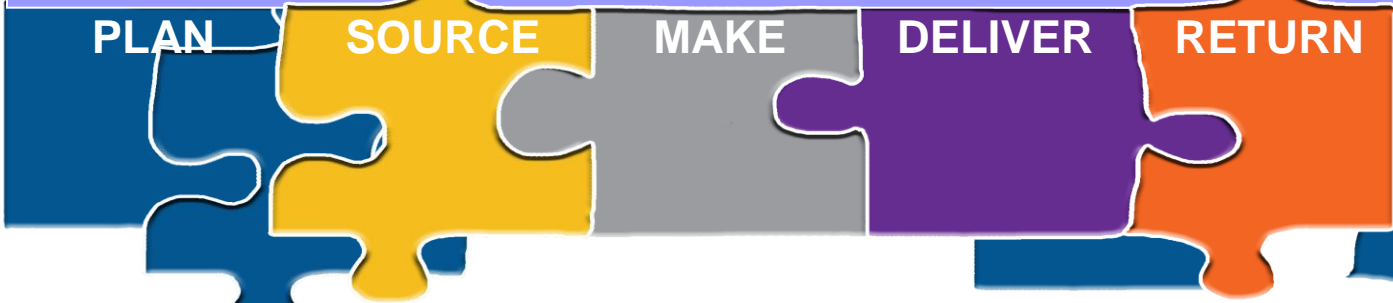


Future State with GLSC: The SCOR Model Standardization of SCOR Functions



Enable Plan, Enable Source, All Bases, Enable Make, Enable Deliver, GLSC Coordination of Supply Chain Metrics, Systems, Power, and Fund, and Integration, Enable Return, with MA/LSO Contractors

ENACTED SCOR PROCESSES



- OC-ALC
- OO-ALC
- WR-ALC
- All Bases
- All CIRFS
- DLA
- Contractors

GLSC/DLA/Contractor Collaborative Processes
 •Plan Source
 •Plan Deliver
 •Plan Return

Source Stocked Product
 •OC-ALC
 •OO-ALC
 •WR-ALC
 •All Bases
 •All CIRFS
 •DLA
 •Contractors

GLSC Collaboration with RE21 and Mx Network Bases
 •OC-ALC
 •OO-ALC
 •WR-ALC
 •All CIRFS
 •Contractors

•Deliver stocked product
 •Deliver make to order
 •Deliver engineer to order
 •Deliver retail product

TRANSCOM GLSC Oversight with DLA LSO
 •TRANSCOM; ALC/Bases/CIRFS, DLA, and Contractors

TRANSCOM LSO
 •TRANSCOM; ALC/Bases/CIRFS, DLA, and Contractors





Future AF Supply Chain



- ❑ Total Asset Visibility
- ❑ Automated Data Entry
- ❑ A Global Network
- ❑ Big Picture Planning
- ❑ Decision Support Tools
- ❑ Predictive Mgmt
- ❑ Centralized Financial Mgmt
- ❑ Optimized Repair
- ❑ LEAN Practices



eLOG21 Enabling Key Effects

Enterprise View
Integrated Processes
Optimized Resources
Integrated Technology

Reach Forward vs. Reach Back = Future AF Logistics

“Air Operations Center” for Supply Chain Management





GLSC Take Aways



- **Continue with Sustainment Transformation**
- **Continue down the Purchasing Supply Chain Management path**
- **Centralized management of supply chain**
- **Stand-up 20 Jan 08**



Repair Network



- **We need a product that provides visibility of the existing repair network**
 - **Current configuration, capacity, capability, throughput...vs. requirement**
 - **Services and Commercial**
- **Model and Simulation capabilities to explore variables (architecture, requirements, etc)**
- **Who does what, at which location, with what effect, at what cost?**



Strategic Source of Repair



- **SSOR decisions must be timely**
- **Equation is multi-dimensional**
 - **New programs**
 - **Repair Enterprise for the 21st Century**
 - **SECAF Directive to further consolidate I-Level Maintenance**
 - **CSAF Directive to move sortie generators back to fighter squadrons**
- **Working with HAF on options**



Centralized Asset Management



CAM Mission Objective

Centralize and integrate management of AF sustainment to optimize warfighting capability through effective and efficient allocation of resources across the enterprise.

CAM Vision

Enterprise Perspective... Warfighter Focus!



CAM Defined



- **Centralized programming, budgeting and execution for AF weapon system sustainment**
- **Standardized/streamlined sustainment requirements**
- **Fleet-based management**
- **Provides AF enterprise level optimization to maximize warfighting capability thru improved weapon system availability**

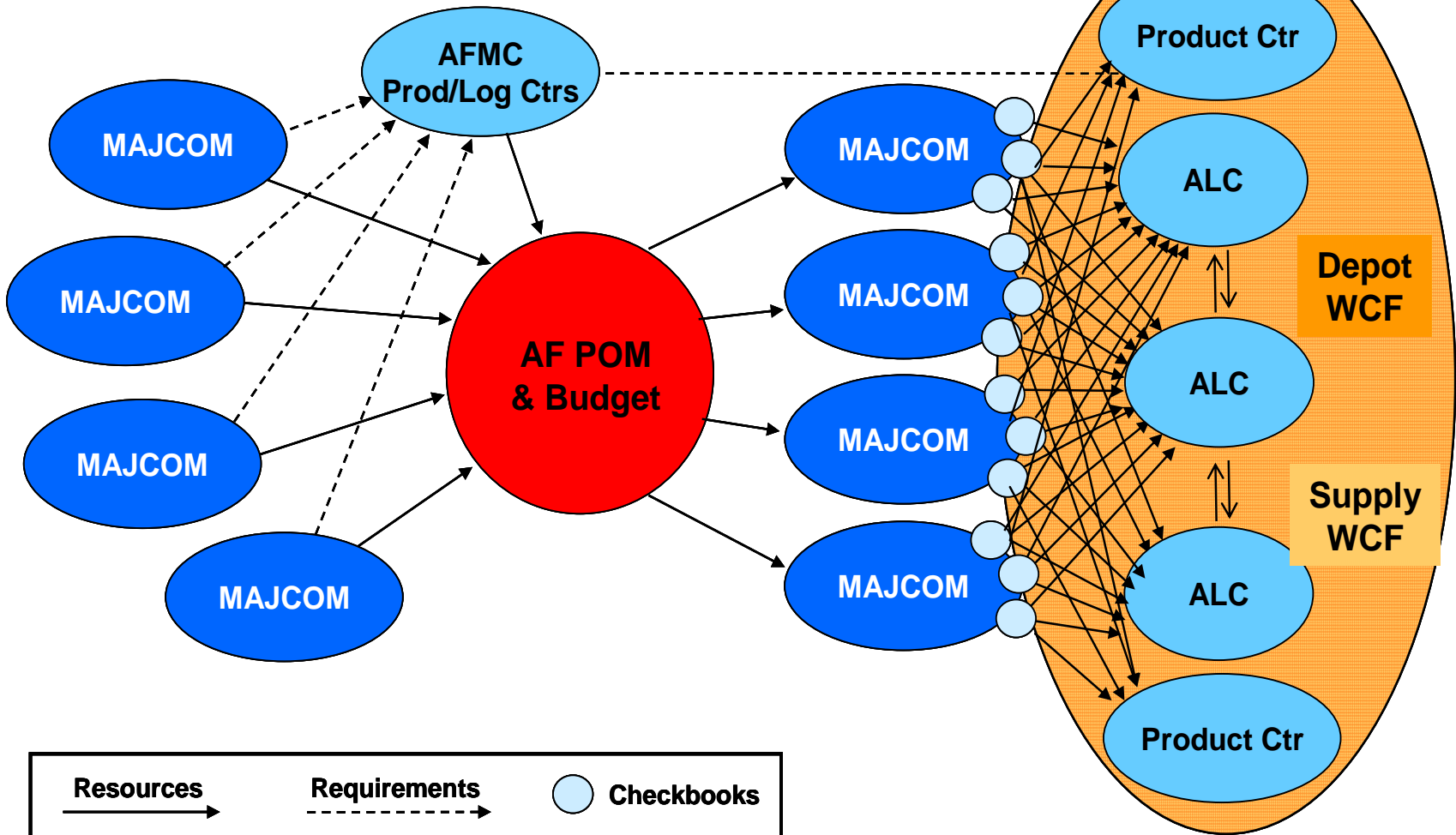
Warfighter-Focused Business Performance

Previous Process

Requirements

Programming / Budget

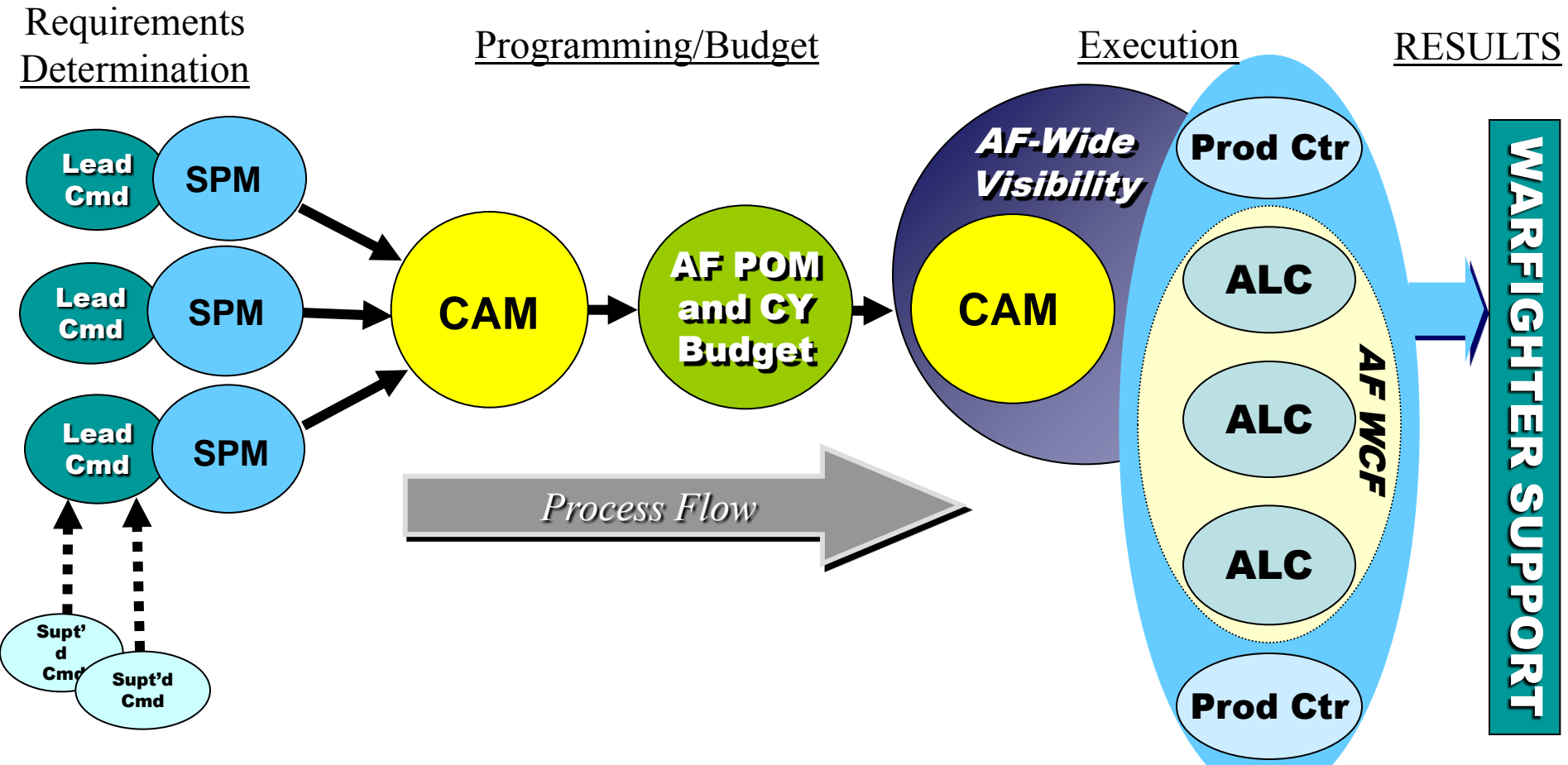
Execution





New CAM Process

REPRESENTATIVE DEPICTION



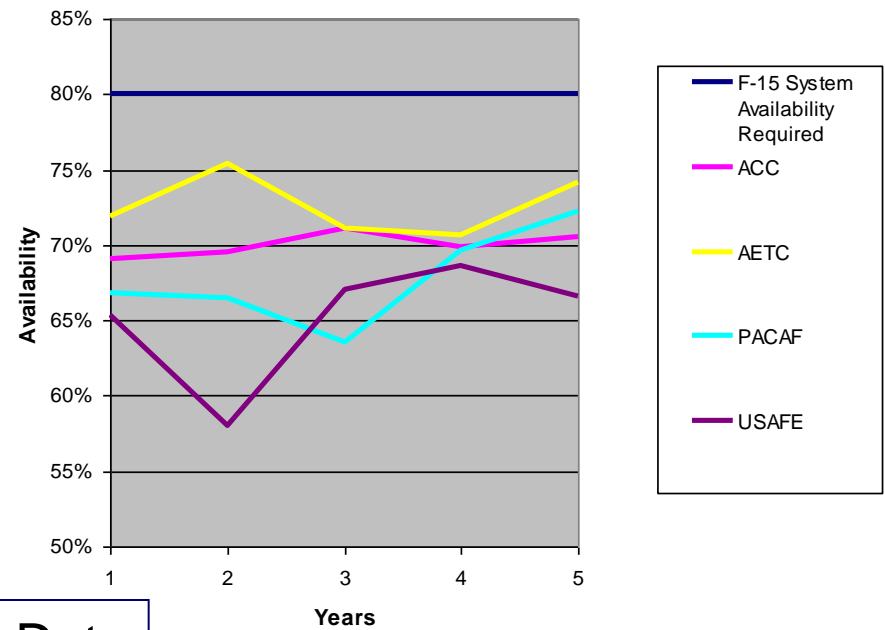
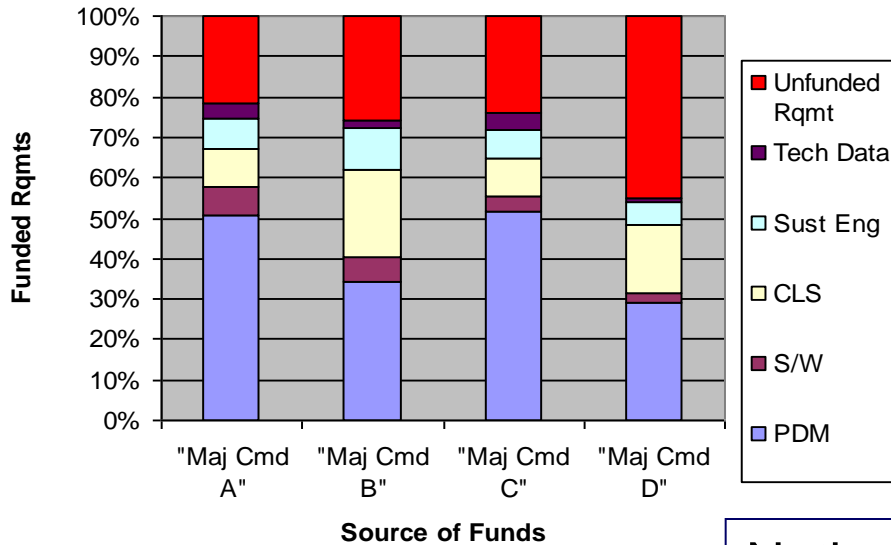
Lines of Accounting Reduced from 20,000 to 2,000



Process Changes



F-15 (Old Process)



Notional Data

Old Process:

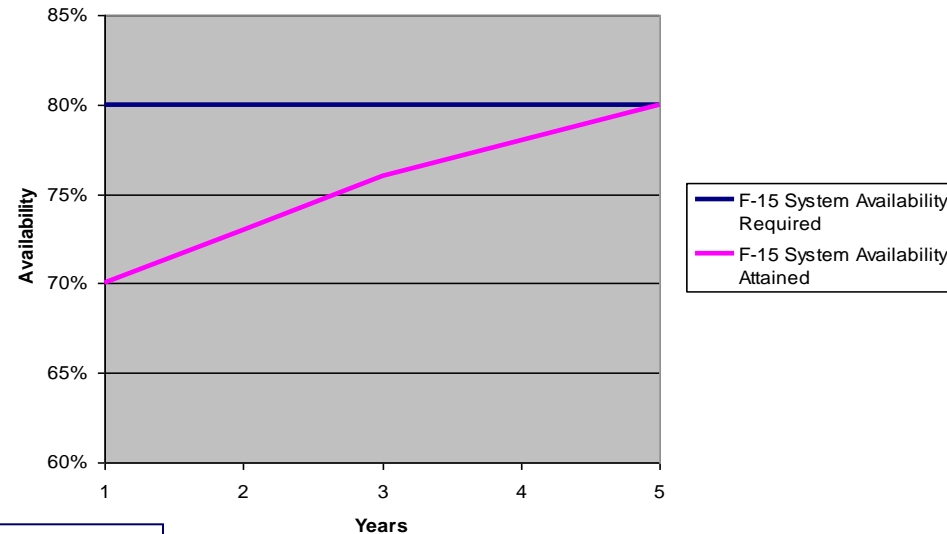
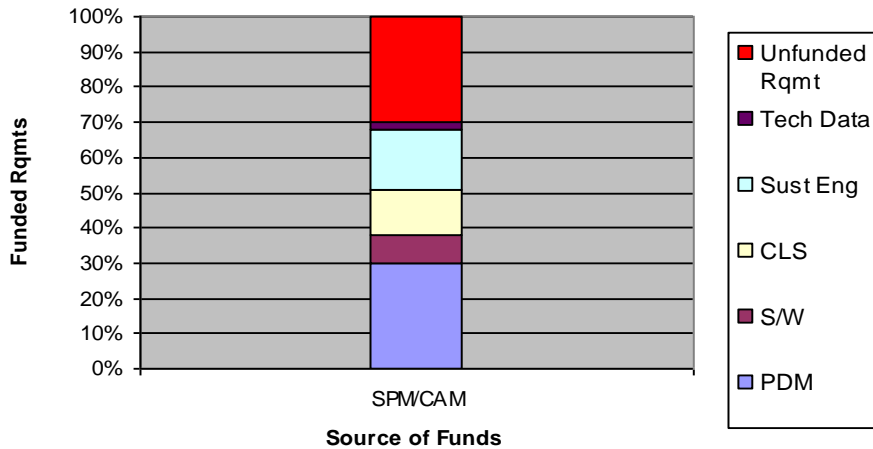
- **Business area focus**
 - DPEM, CLS, Tech Orders, etc
- **Multiple MAJCOM decisions**
 - Issue Oriented
 - Not focused on availability
- **Differing priorities among MAJCOMs**
- **Result: Sub-optimization**



Process Changes



F-15 (New Process)



Notional Data

New Process:

- Fleet-based focus
- Customer defines performance requirements
- SPM/PGM prioritizes WS requirements across fleet to achieve performance/availability
- Desired Result: Optimized performance



Expeditionary Combat Support System



- **Why Transform Logistics Systems**
 - **400+ logistics systems**
 - **High sustainment costs**
 - Many sources of redundant data
 - Antiquated programming languages
 - Numerous point-to-point interfaces
 - **Unreliable Data**
 - **Significant integration challenges**
 - **Decentralized ownership**



Enterprise Resource Planning



What is an ERP?

- A tool for horizontal integration
- A commercial, off-the-shelf (COTS) software product

ERP Integrates



Significant Impact to AF:

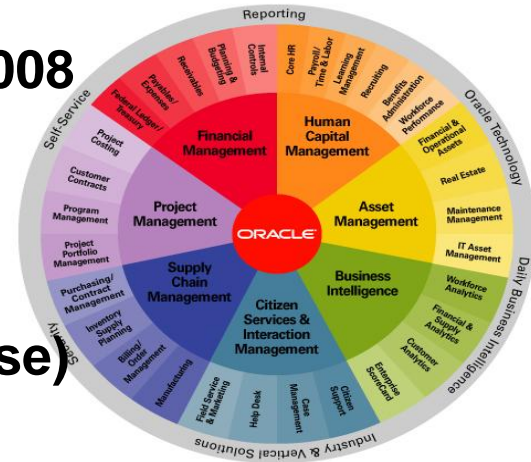
- We will adopt new processes and practices
- Changes the way we do business
- Works across current organizational lines



ERP Information



- **System Integrator: Computer Sciences Corporation (CSC)**
 - Enterprise Level Blueprinting: May-Sep 2007
 - Process Area Blueprinting: Oct 2007 – Oct 2008
- **COTS Product: Oracle Award Oct 05**
 - Oracle, IFS, Click Commerce Software
 - Oracle R12 ERP Backbone (Enterprise License)
 - IFS –Maintenance
 -  - Supply Chain Planning
- **Decision to Use COTS Means No Tailoring of Software**
- **ECSS Planning will Drive Changes to AF Processes**





ECSS Capabilities



- **Advanced Planning and Scheduling (APS)**
- **Material Management, Contracting & Logistics Finance**
- **Configuration & Bill of Material (BOM)**
- **Repair and Maintenance**
- **Product Lifecycle Management (PLM)**
- **Customer Relationship Management (CRM) & Order Management (OM)**
- **Distribution and Transportation**
- **Decision Support**
- **Facilities Management**
- **Quality Control**
- **Document Management**
- **Budgeting**





ECSS Project Overview

- **Improve Warfighter Capability by Transforming AF Logistics' Business Processes and Leveraging Ongoing Initiatives and Capabilities that IT Can Deliver Today**

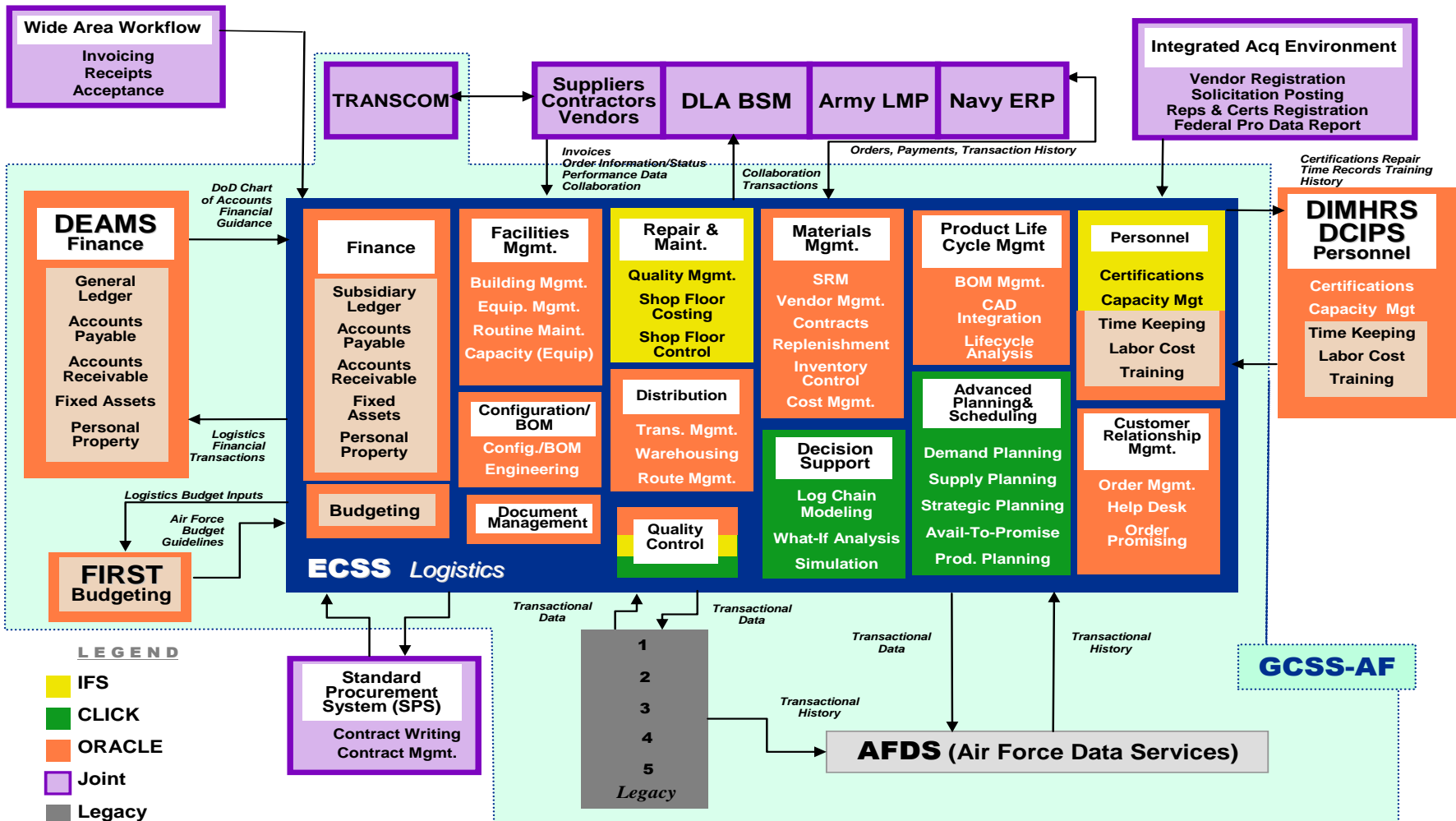
Objectives

- **Establish Real-Time Modernized Information System**
- **Apply Best Commercial Practices**
- **Utilize COTS Based Solution**
- **Plan and Execute Obsolete Legacy Retirement (400+ systems)**
- **Increase Equipment Availability by 20%**
- **Reduce Annual O & S Cost by 10%**





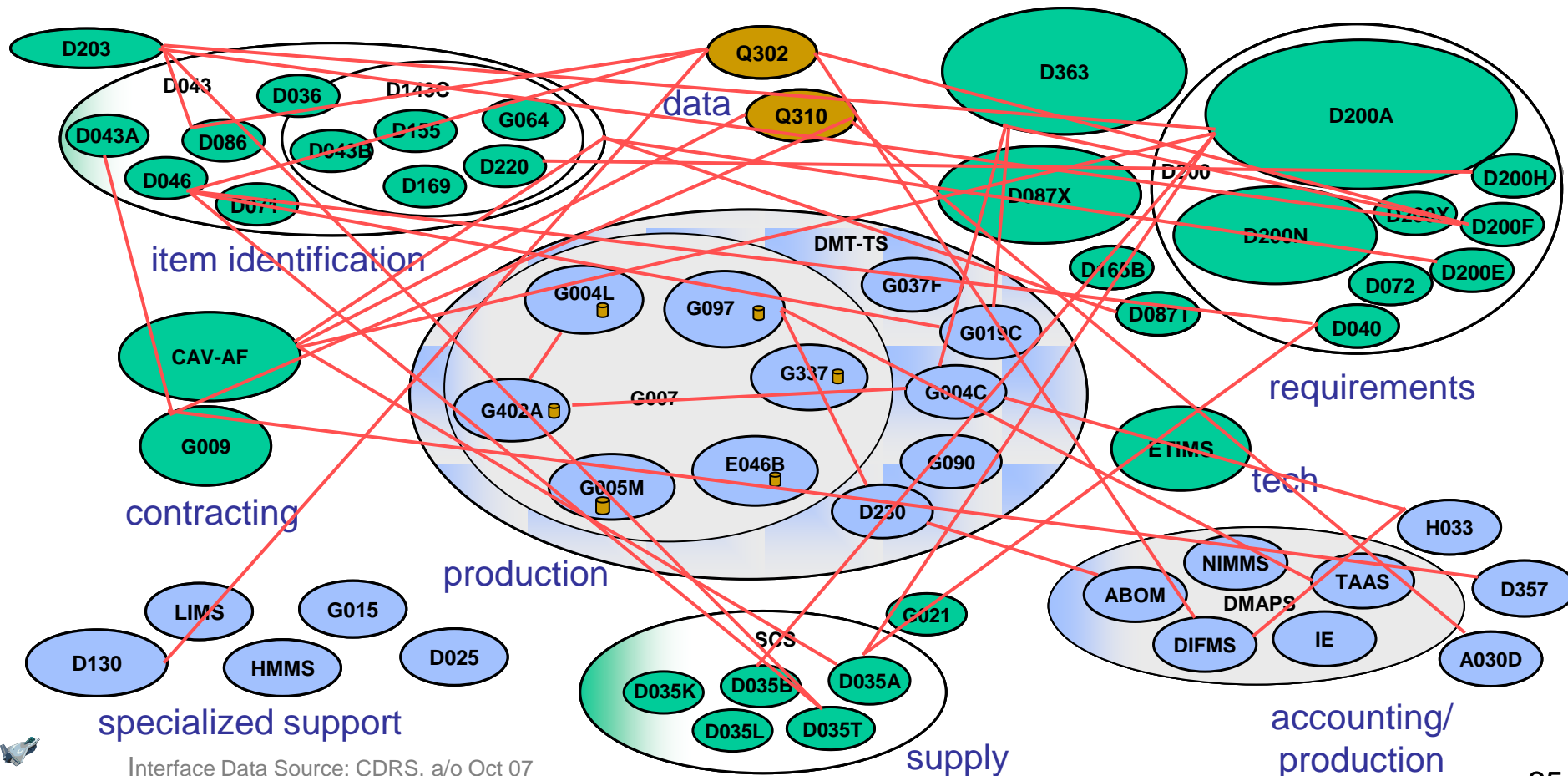
ECSS System View



As of: **03 May 07**
 Version: **2.0**
 OPR: **754 ELSG/EC**

Legacy Environment

Multiple Interfaces
Multiple Data Sources

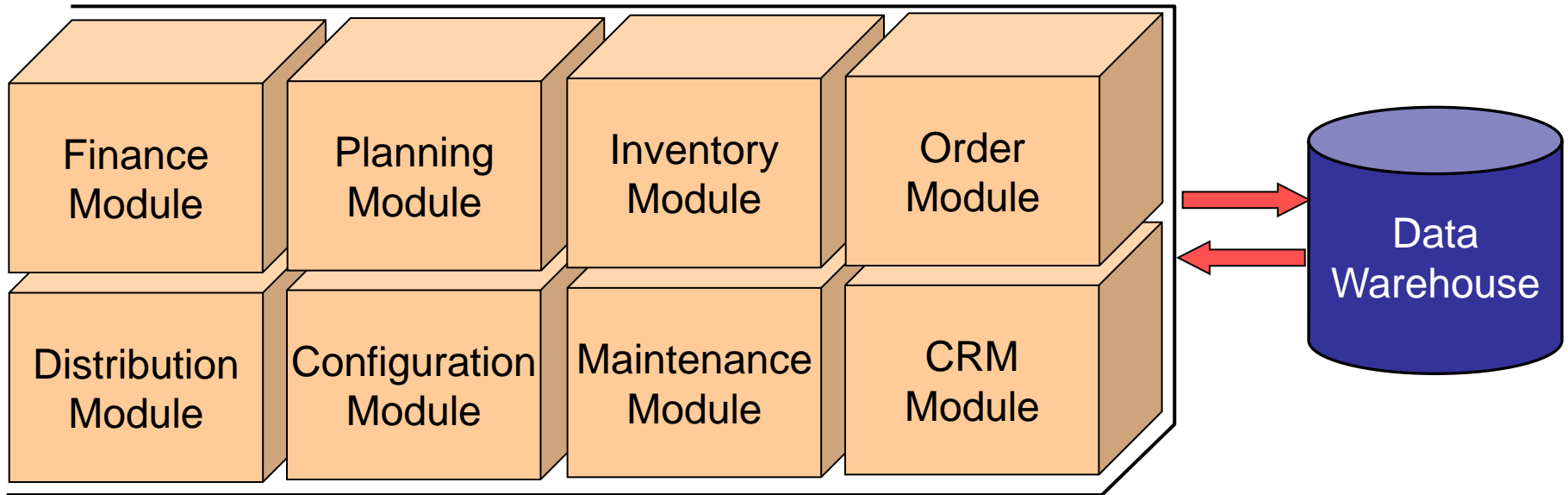




Enterprise Resource Planning

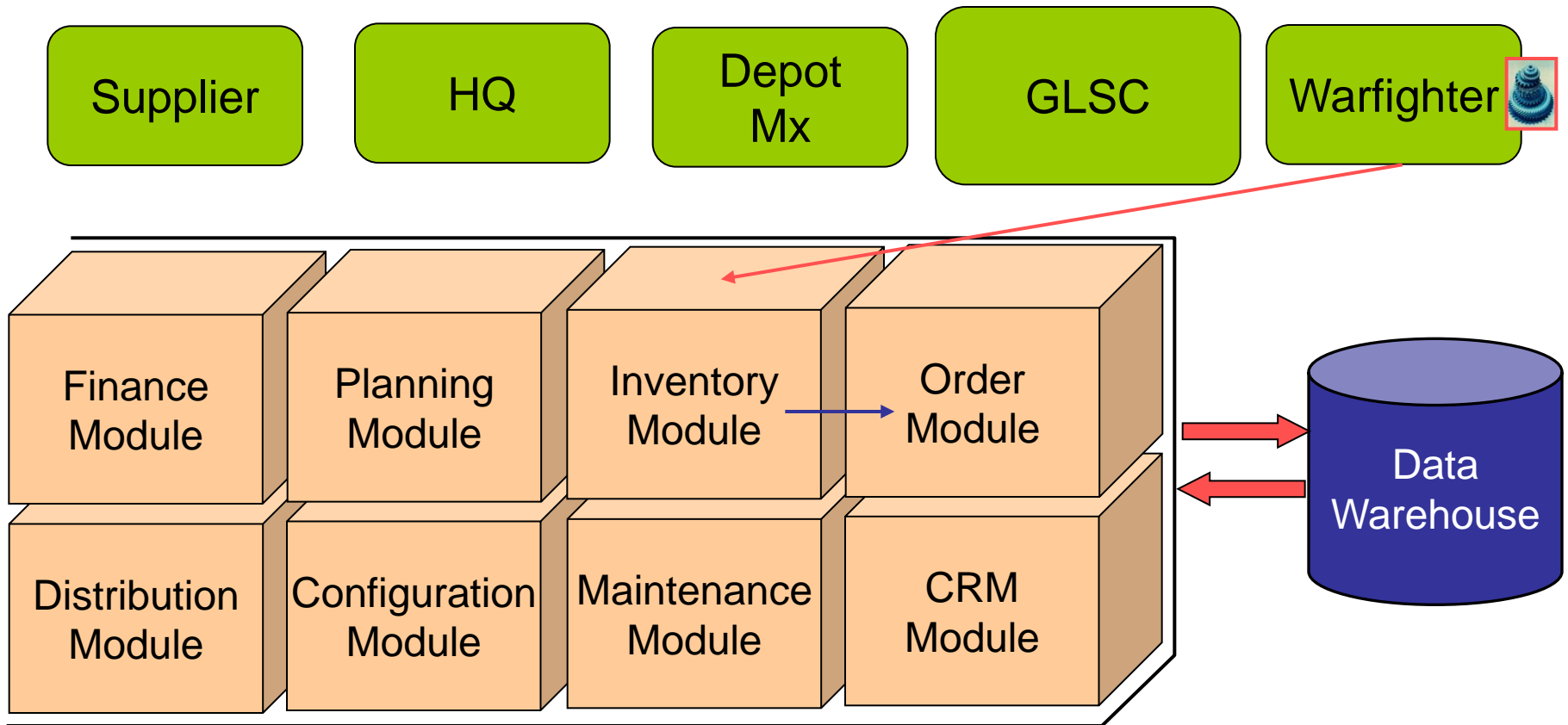


Integrated ERP System w/ Many Capabilities
Single Data Source



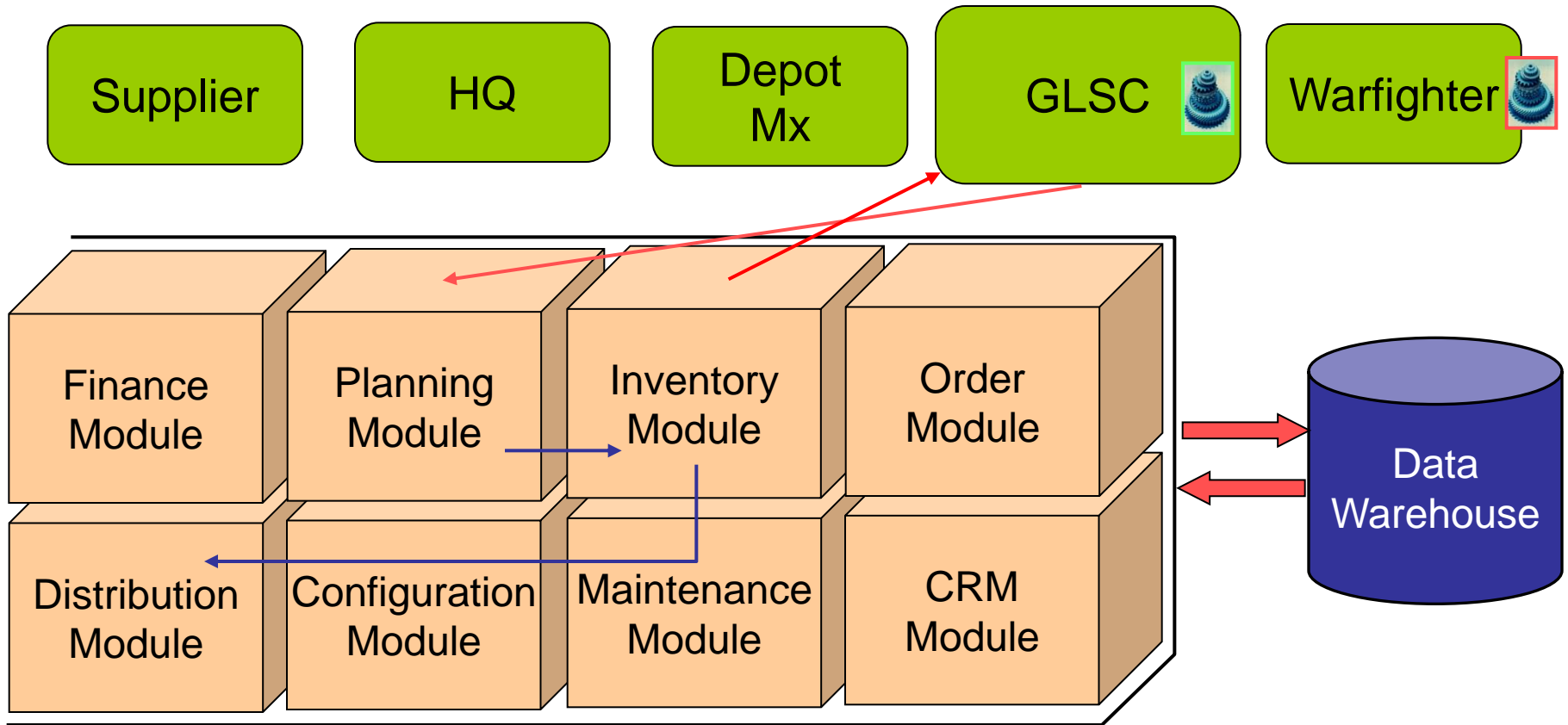
Enterprise Resource Planning (ERP) System

Enterprise Resource Planning



Air Base checks real-time inventory of engine nozzles in Inventory Module, which places order for part if unavailable. Order Module sends request to GLSC. Data Warehouse updated.

Enterprise Resource Planning



Global Logistics Support Center (GLSC) verifies need to repair based on demand and supply targets in Planning. Inventory Module triggers shipment of new nozzle from Supply via Distribution Module. Data Warehouse updated.



Improved Capability



- **Real Time Weapons System and Supply Chain Management**
 - Assess status and availability of major weapon system assets in the MRO chain
 - Quickly assess the impact and respond to unplanned activities such as an asset airworthiness issue
 - Identify and analyze systemic deficiencies in logistics and maintenance operations
 - Analyze and evaluate logistics costs by area, operation, and asset
- **Total Asset Visibility**
 - Real time identification of operational short-falls in the logistics supply chain
 - Analyze and evaluate the availability of logistics assets to respond to changing mission demands

Warfighter Effect

ECSS Will Allow Commanders, Planners, and Logisticians to:

- **Asset Visibility – See into the Total Logistics Pipeline**
- **Transportation Visibility – Improve Interface with TRANSCOM**
- **Increase Insight into the Process**
 - Eliminate difference between Wholesale and Retail
 - Effect Decision Making
- **Bottom Line**
 - Right Support, Right Place, Right Time – Every Time ...



Common Operating Picture



ECSS Future Log State

400+ LOG SYSTEMS

Current State



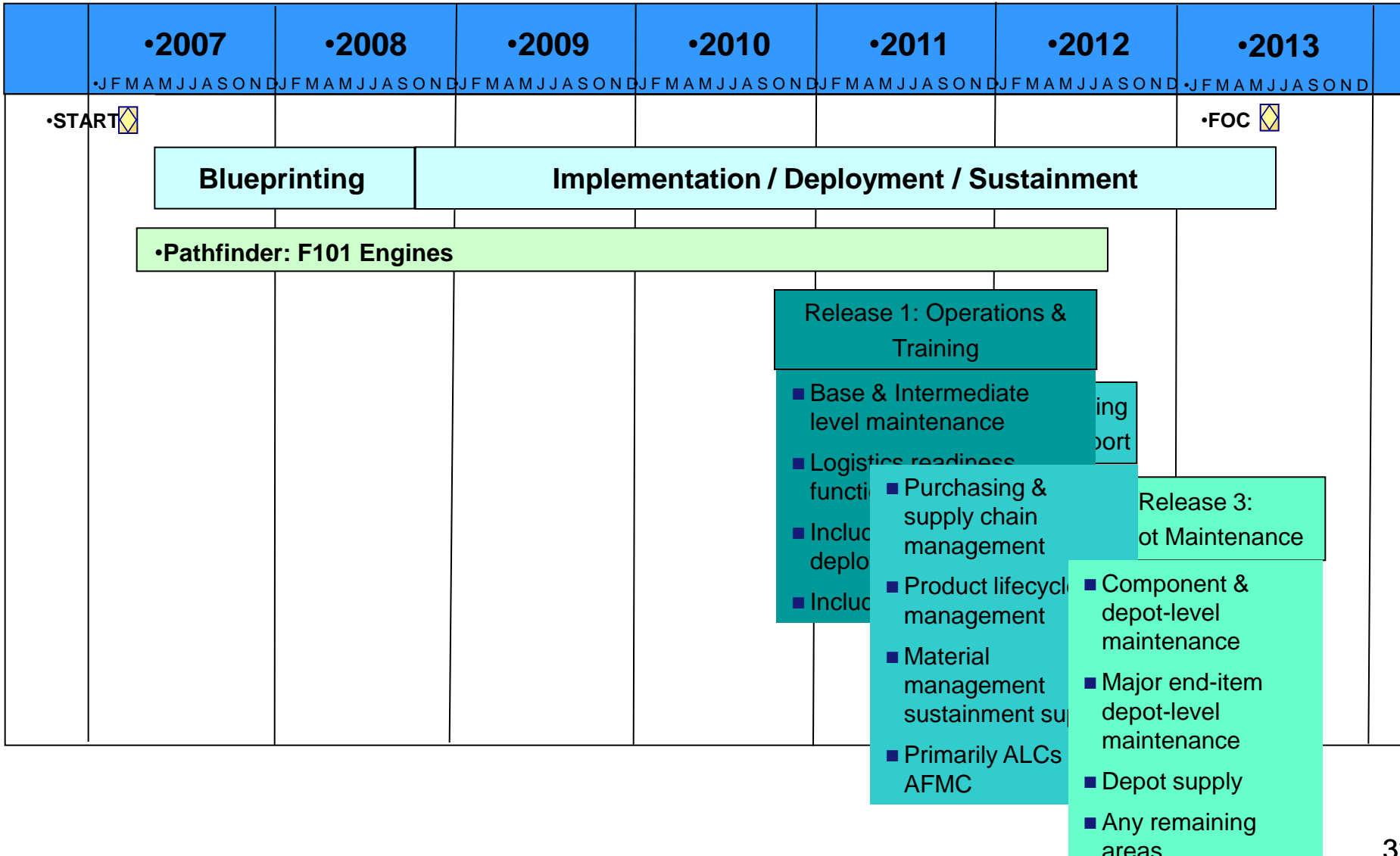
- Distribution & Transportation**
- Materials Management & Contracting Log Finance**
- Repair & Maintenance / HR / Costing**
- Finance & Budgeting**
- Personnel**
- Quality Control**
- Customer Relations & Order Management**
- Facilities Management**
- Advanced Planning & Scheduling**
- APPLICATION INTEGRATION**
Persistent Capability (Goal = Zero)

Future State

ECSS COTS Capabilities



ECSS Release Strategy





Logistics is the Jawbone



I don't ever, ever, ever want to hear the term logistics tail again. If our aircraft, missiles, and weapons are the teeth of our military might, then logistics is the muscle, tendons, and sinews that make the teeth bite down and hold on—logistics is the jawbone! Hear that? The **JAWBONE!**

Lt Gen Leo Marquez, USAF



War-Winning Capabilities...On Time, On Cost

