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Global Combat Support System

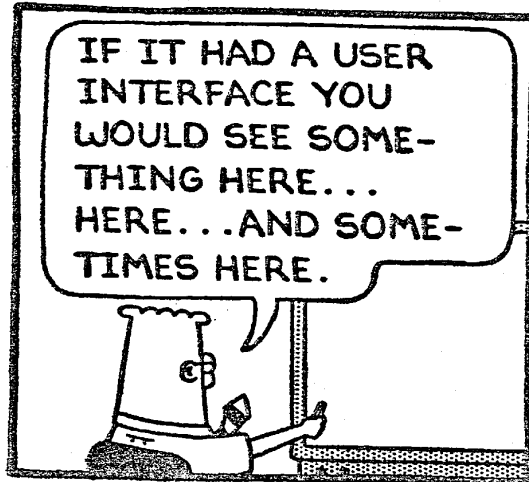
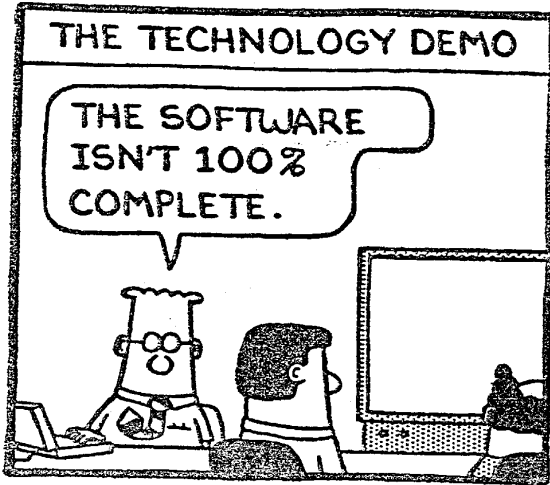
NDIA Interoperability and Systems Integration Conference

April 2003

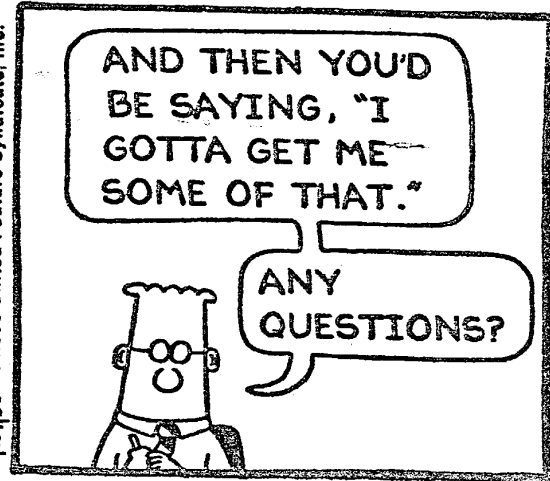
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Dilbert



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WHY?

Logistics Transformation

✓ WE HAVE THE MOST *EFFECTIVE* LOG SYSTEM IN THE WORLD

But...

- WE ARE NOT *FLEXIBLE*
- WE ARE NOT *MOBILE*
- WE ARE NOT *EFFICIENT*
- WE ARE NOT *INTEROPERABLE*

- 1000+ Log Systems today
- Processes are over 30 years old
- Batch Processing - adds days
- Cannibalization increasing
- Backorders add months
- Widening gap between DoD and Industry practices
- No Joint Materiel Management capability

*We are **NOT** READY for 2020*



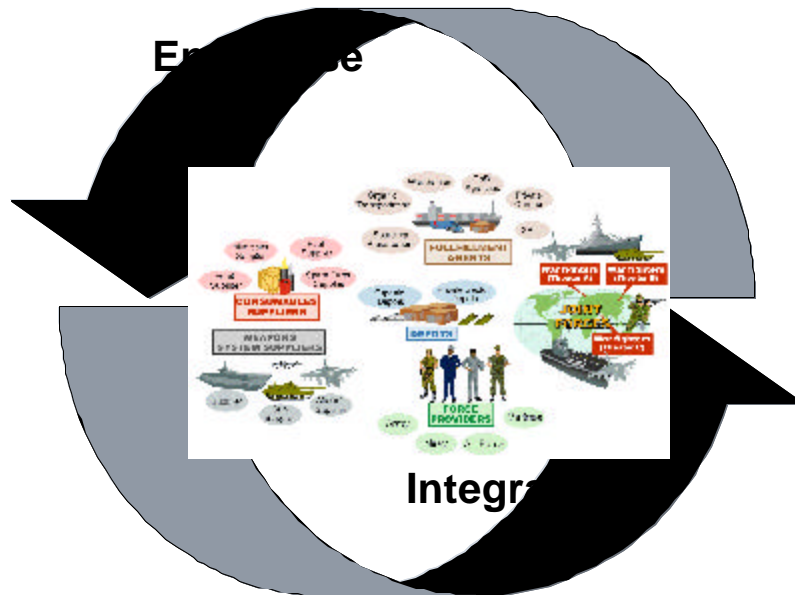
What Must We Do? The Future Logistics Enterprise

- **Implement commercial best practices for weapon system support**
 - End-to-end accountability (total life cycle systems management)
 - Strategic partnering
 - Demand capture at source (conditioned-based maintenance⁺)
- **Implement end-to-end warfighter support**
 - Commercial distribution model and standards
 - End-to-end accountability for combat commodities
- **Integrate the logistics enterprise to support the joint warfighter**
 - Processes focused on output
 - Enabled by proven COTS capabilities

A Strategy For Success



Develop a Logistics Enterprise Architecture that allows interoperability within and across DoD elements



Portfolio Management

Change Management

Focus on BPR – vs. changing COTS Software

Phased Implementation

“80/20 Rule”

Leverage Commercial Knowledge Base

Collaborative Oversight – to Address Complexity and Culture



FLE Architecture Approach

FLE Architecture Principles

- **Useful guidance without inhibiting innovation**
- **Evolve as environment changes over time**
- **Use best practices**
- **Business process-centric, not data- or org-centric views**

FLE Architecture Outcomes

- **Defined logistics domain**
- **Performance driven logistics chain**
- **Foundation for logistics portfolio management**
- **Integrated architecture from the enterprise (FMMP) through the domain to the service components**

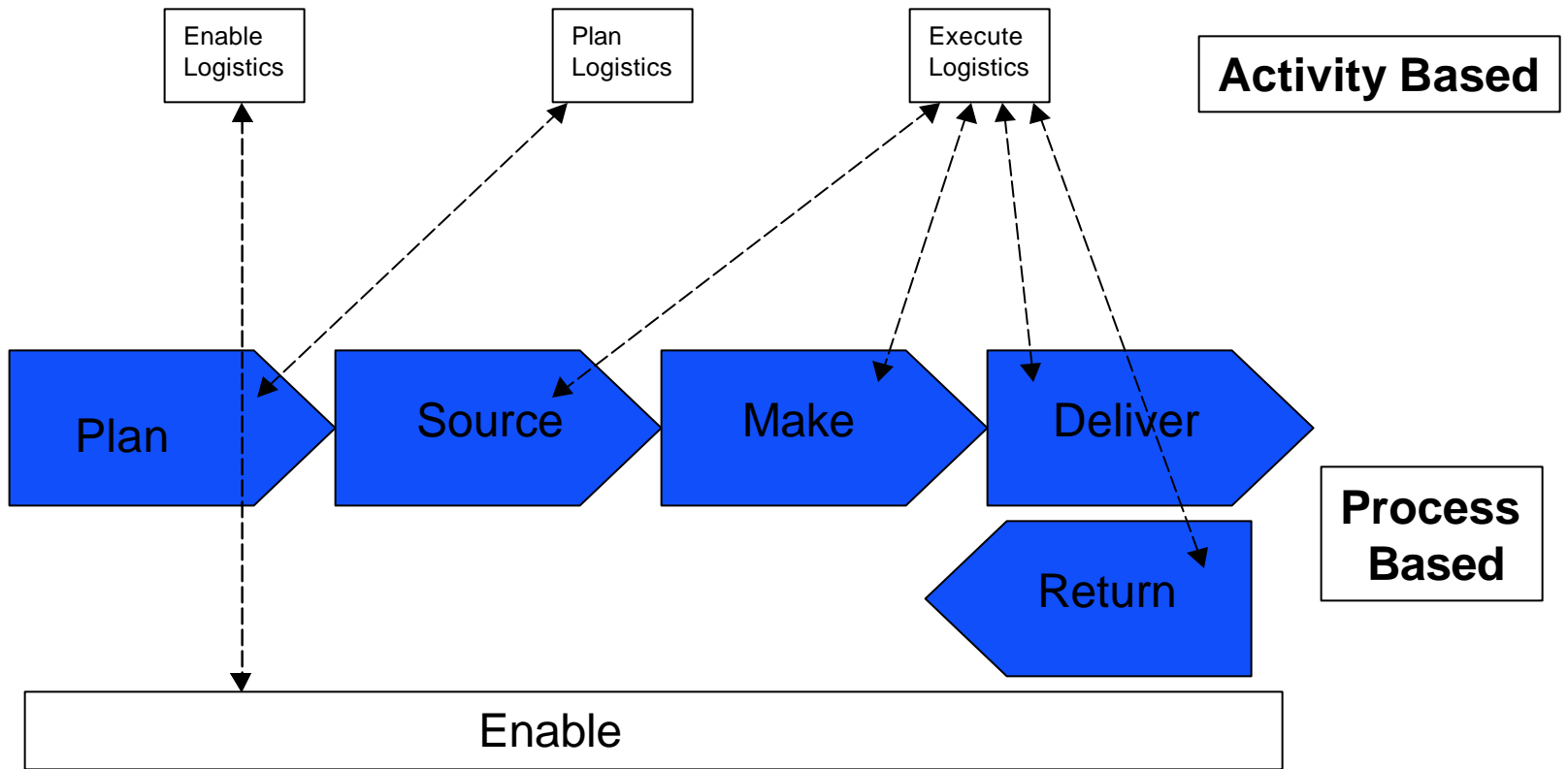
Provide added value to the Warfighter

Architecture Integration with FMEA Using SCOR



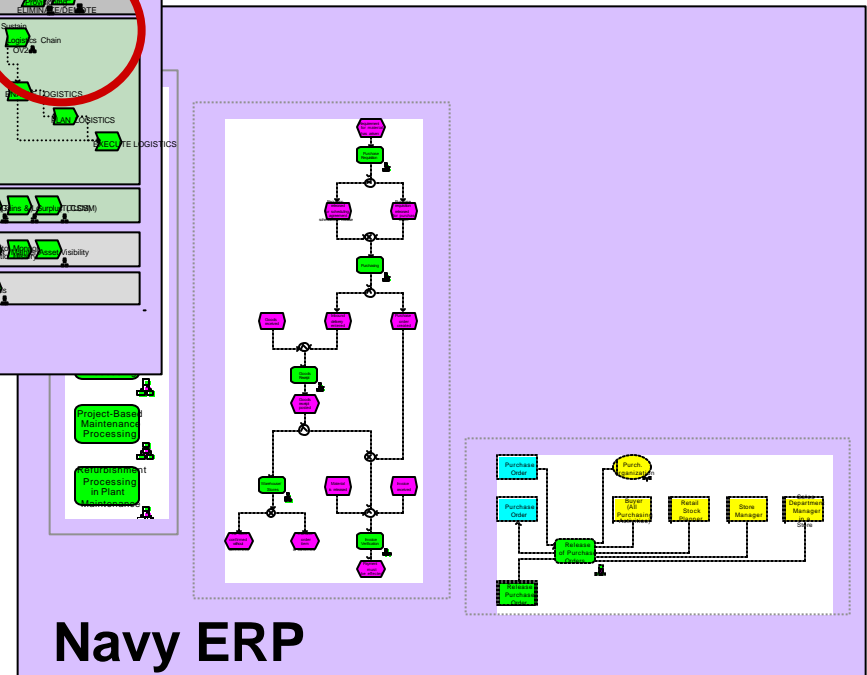
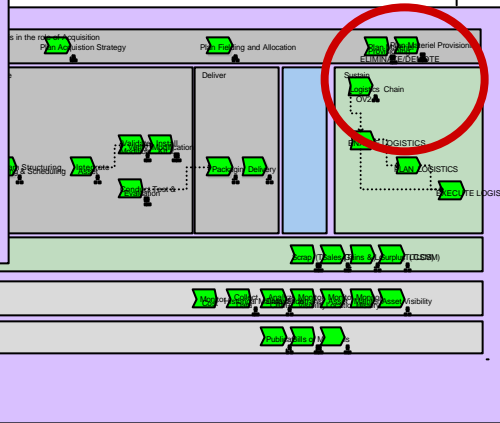
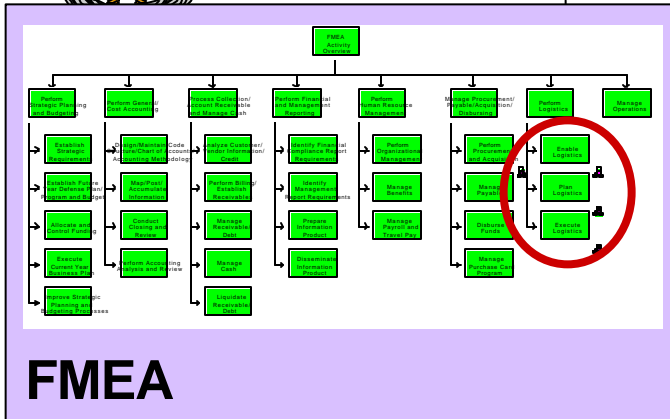
FMEA

FLE-A (SCOR)



Process Based Modeling is Critical to Enterprise Integration

How Do We Align?



DoD Enterprise View

DoD Domain View

Navy ERP View

What is GCSS?



- **GCSS MNS approved 10 September 1997**
- **GCSS CRD approved 5 June 2000**

- **GCSS is a Family-of-Systems**
 - independent systems
 - interconnected
 - mix of systems tailored to provide capabilities

“GCSS is not an acquisition program or a standard information system, but an initiative for enhancing combat support effectiveness through system interoperability.”

GCSS MNS, 10 Sep 97

GCSS FOS

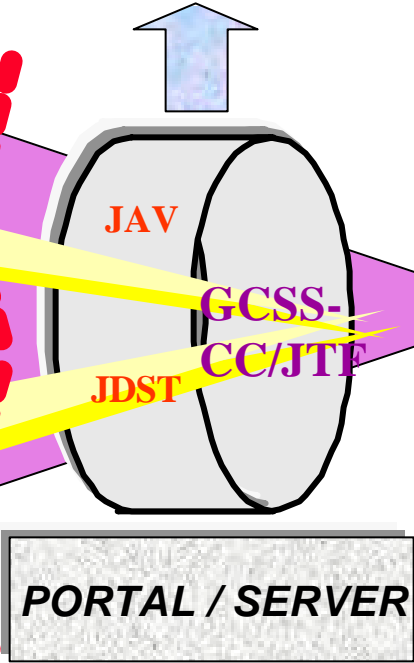
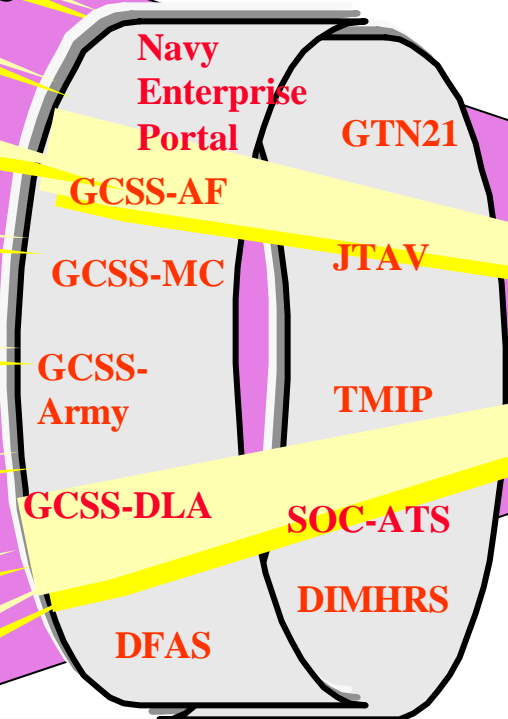
Logistics Transformation through Real-Time Situational Awareness

- Joint Asset Visibility
 - Mobility, Transportation, Movement
 - Logistics (Supply, Maintenance, Engineering)
 - Personnel and Force Health Protection
 - Acquisition and Finance
- Joint Decision Support Tools
 - Collaborative Planning
 - Course of Action Development
 - Course of Action Analysis

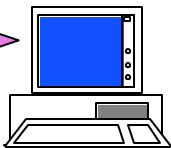
**F
L
E**

- TRANSPORTATION
- SUPPLY
- MAINTENANCE
- ENGINEERING
- PERSONNEL
- MEDICAL
- ACQUISITION
- FINANCE

**DIMHRS
TMIP**



Any authorized user
Any authorized box
Anywhere
One picture



WEB-BASED / WEB-ENABLED BROWSER

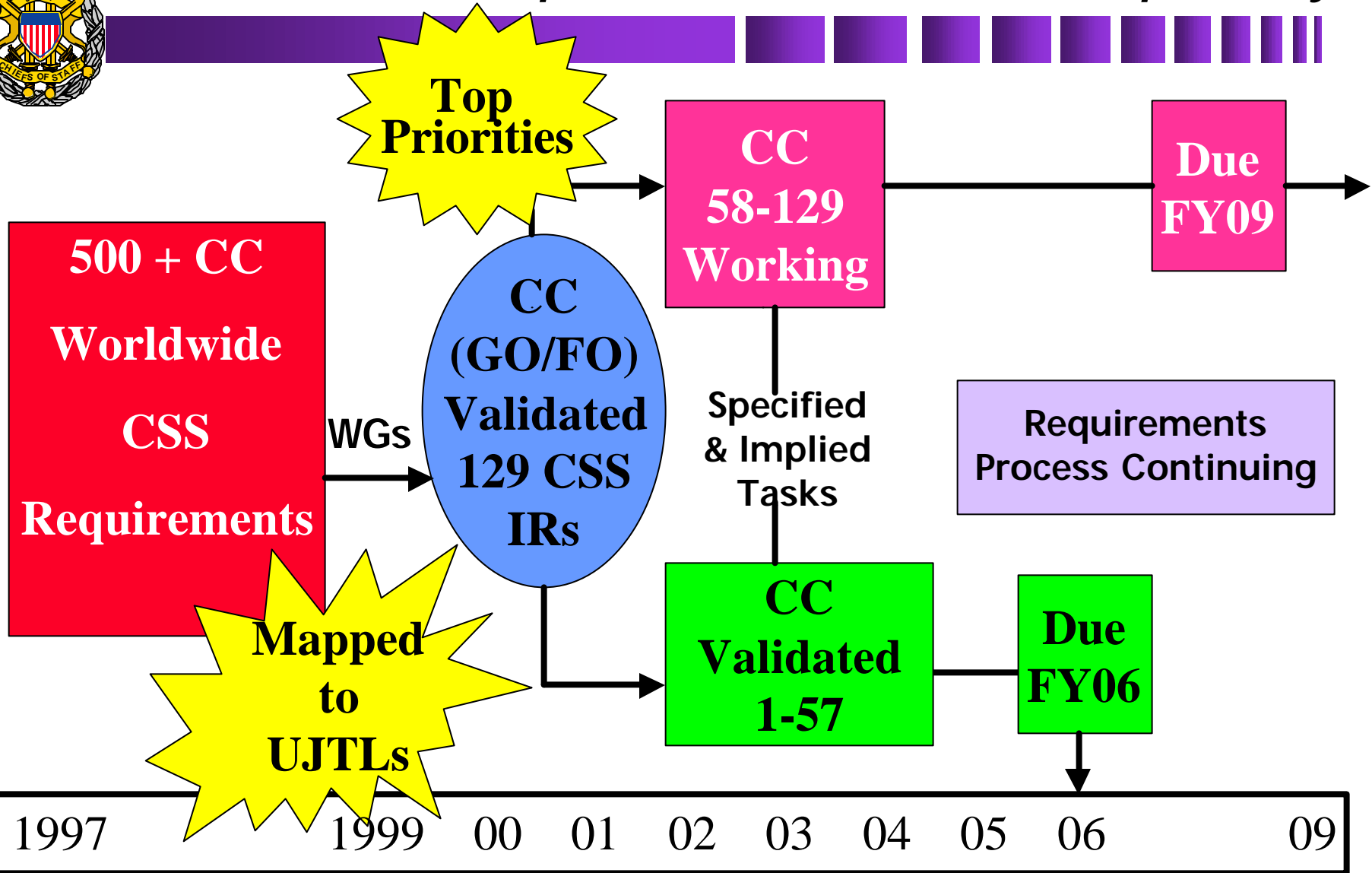
ZERO LATENCY!

WEB-BASED APPLICATIONS (normalized data)

- Joint Decision Support Tools:**
- ICIS
 - JL ACTD
 - ELIST
 - JFAST
 - JTL ACTD
 - CTL
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GCSS is a Requirements Based Capability



Logistics Data



- *Logistic information systems-Today, 30 year old processes*
 - stovepiped, lack data normalization
 - major management weakness
- *Logistics information systems-V2020*
 - relevant, accessible
 - real-time, accurate
 - most importantly.....actionable

**GCSS Data Must be Interoperable, Normalized, and Shared
Across the DoD Enterprise**



GCSS Logistics Data

- GCSS will operate using data elements linked to each CINC requirement
- Data elements are linked to each CINC requirement using a common data representation (CDR) providing....
normalized, interoperable data

**Interoperability=Relevancy/Currency, Responsiveness (Asset Visibility)
Responsiveness (Joint Decision Support Tools) and Availability**

Other half of Requirement: KPPs



- **Compliance:** with the DII COE level 6 / level 8
- **Security:** NIPRNET and SIPRNET IAW DoD 5200.28 STD
- **Interoperability:** Integrate corporate logistics data into a common operational logistics picture providing real-time logistics situational awareness
 - **Relevancy / Currency:** data accuracy and data age
95%/ 100% accurate from Authoritative Source
 - **Responsiveness:** in providing timely responses to queries
Asset Visibility-less than 60/30 seconds 95% of the time
JDST- less than 120/30 seconds 95% of the time
 - **Availability:** accessibility and connectivity to data
95% / 99% down to the JTF Headquarters level

“Power Point” to Execution is Difficult !!!



“Top 10 Issues...”

- Data interoperability (Data standards, Integration and Normalization)
- Linkages between SIPRNET and NIPRNET
- Information Assurance
- Service comms backbone
- Data currency based on business practices

“Power Point” to execution is difficult !!!



“Top 10 Issues...” (continued)

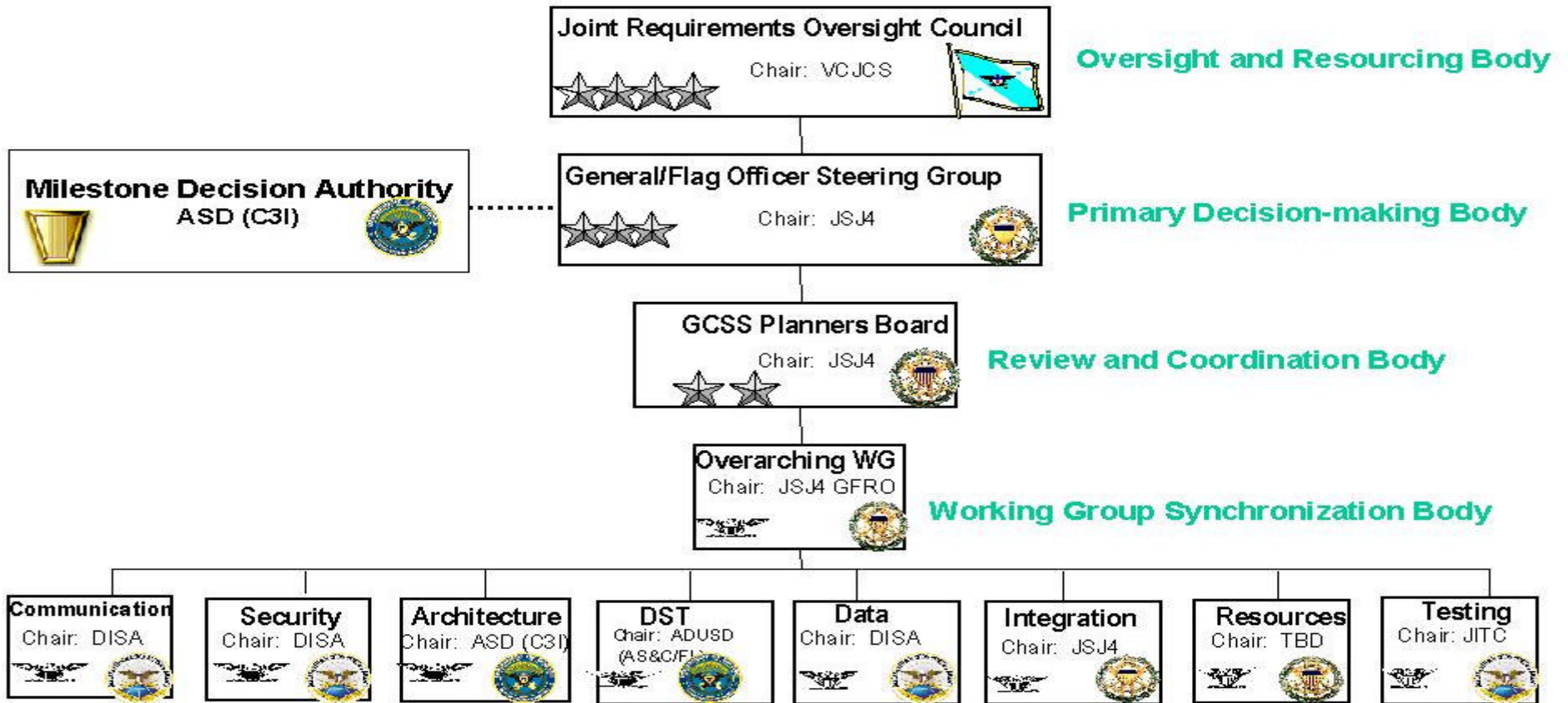
- **Automatic Identification Technology (AIT)/
Automated Information Systems (AIS) Interface**
- **Business Rules for NIPRNET Info Exchange**
- **Implications of OSD(C) Financial Management
Enterprise Architecture**
- **DoD IT Acquisition Process**
- **Interoperability including Inter-agency/
Coalition/Host Nation**

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GCSS FoS Management Structure



Governed by CJCSI 6723.01A (8 Apr 2002)

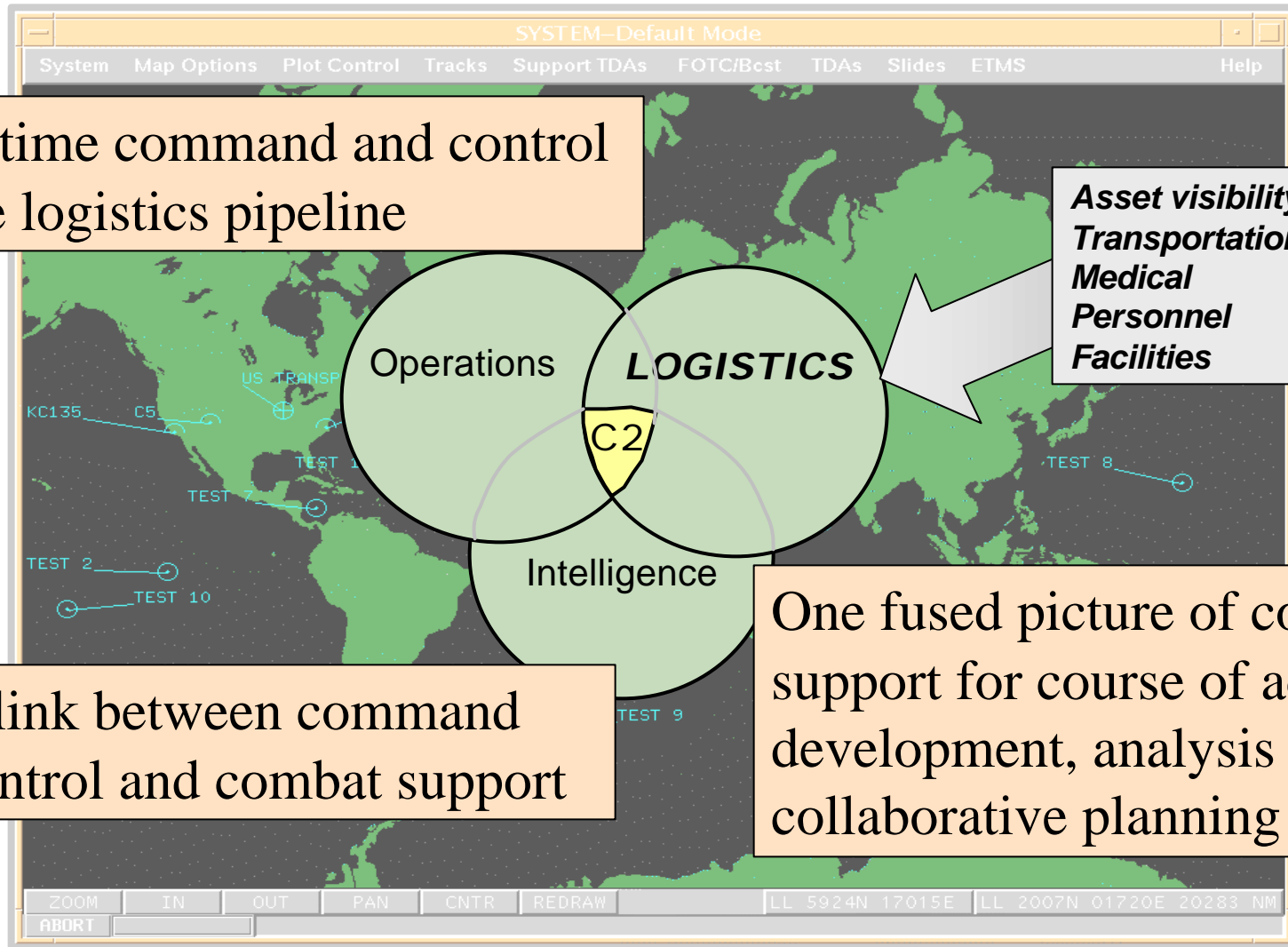




GCSS (CC/JTF) Objective

Real-time command and control of the logistics pipeline

Asset visibility
Transportation
Medical
Personnel
Facilities

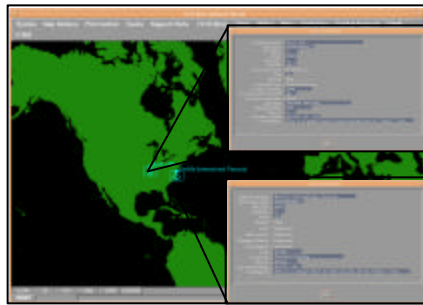


Close link between command and control and combat support

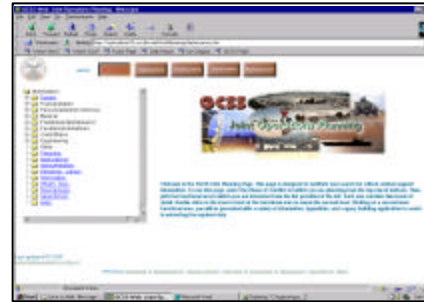
One fused picture of combat support for course of action development, analysis and collaborative planning

GCSS (CINC/JTF) Components

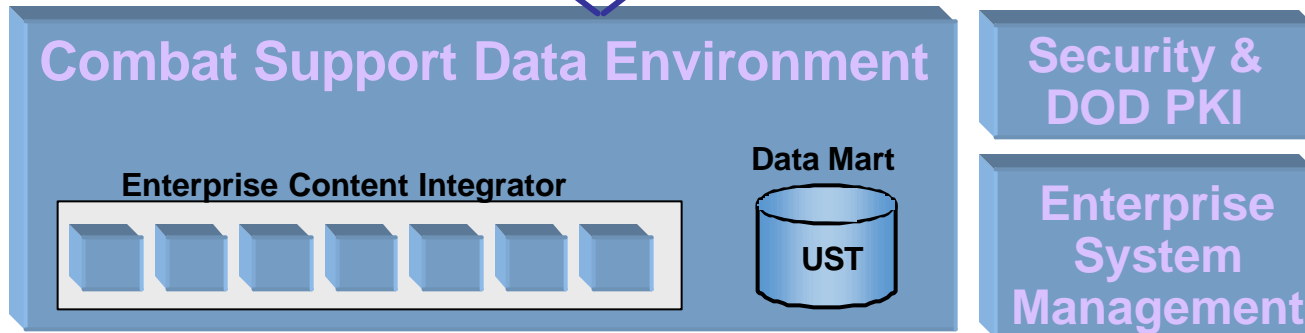
GCCS Mission Applications



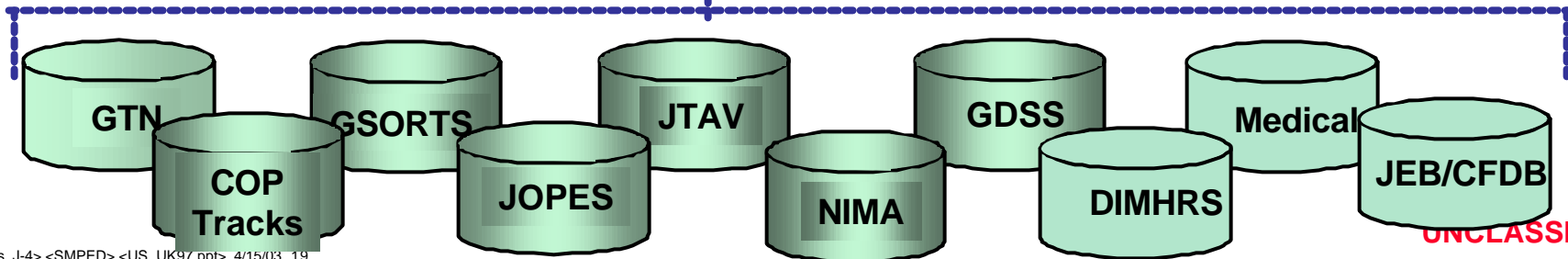
COP-CSE



Portal



Pull On Demand



GCSS FY03 Master Schedule

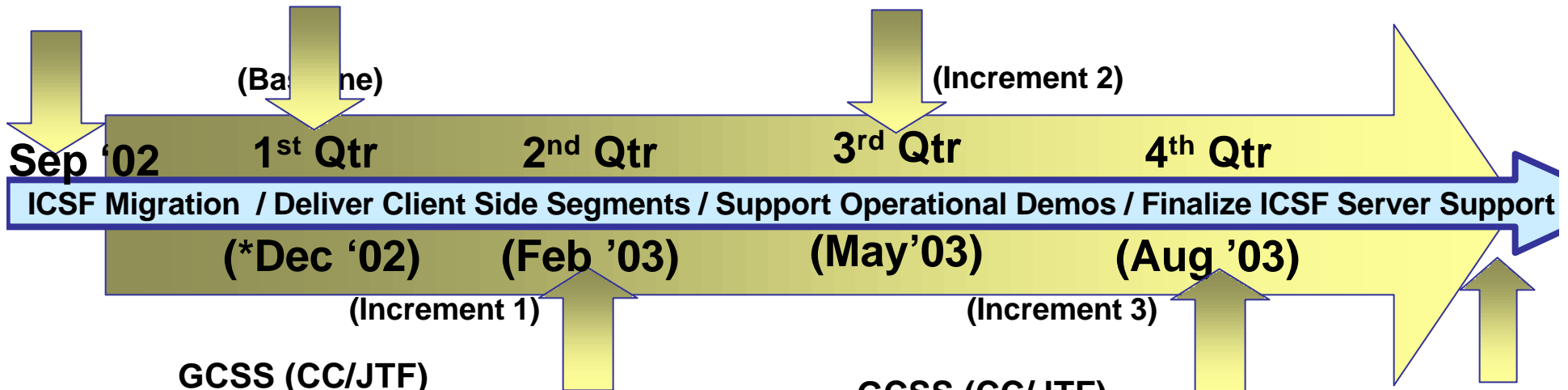


GCSS (CC/JTF) V3.0

- Strategic Air & Sea-lift analysis capabilities
- Static COP Map Available on Portal
- Air Tracks added to COP via Integrated COP-TSE
- System Security (Account Management Enhancements) & Infrastructure Improvements (Rapidly deployable Data Segments)

GCSS (CC/JTF)

- Tools for Visibility into Sustainment Pipeline (Sustainment Visibility Tool)
- Dynamic COP Map Available on Portal
- Upgraded Portal Queries
- Enhanced Account Administration
- Enhanced CSDE to Support Sustainment Visibility Tools
- Initial Personnel data feeds



GCSS (CC/JTF)

- Queries for Inventory Assets, Unit Movement, Material Item Lookups, In Transit Assets, Geo Lookups, Code Lookups
- Updates to CSDE (data environment, NIMA AAFIF Tables, automated Metacatalog Parser)
- CSDE Server ported to Solaris 8
- Final ICSF Client/Server Delivery to GCCS (delivered as part of GCCS V4.0)

GCSS (CC/JTF)

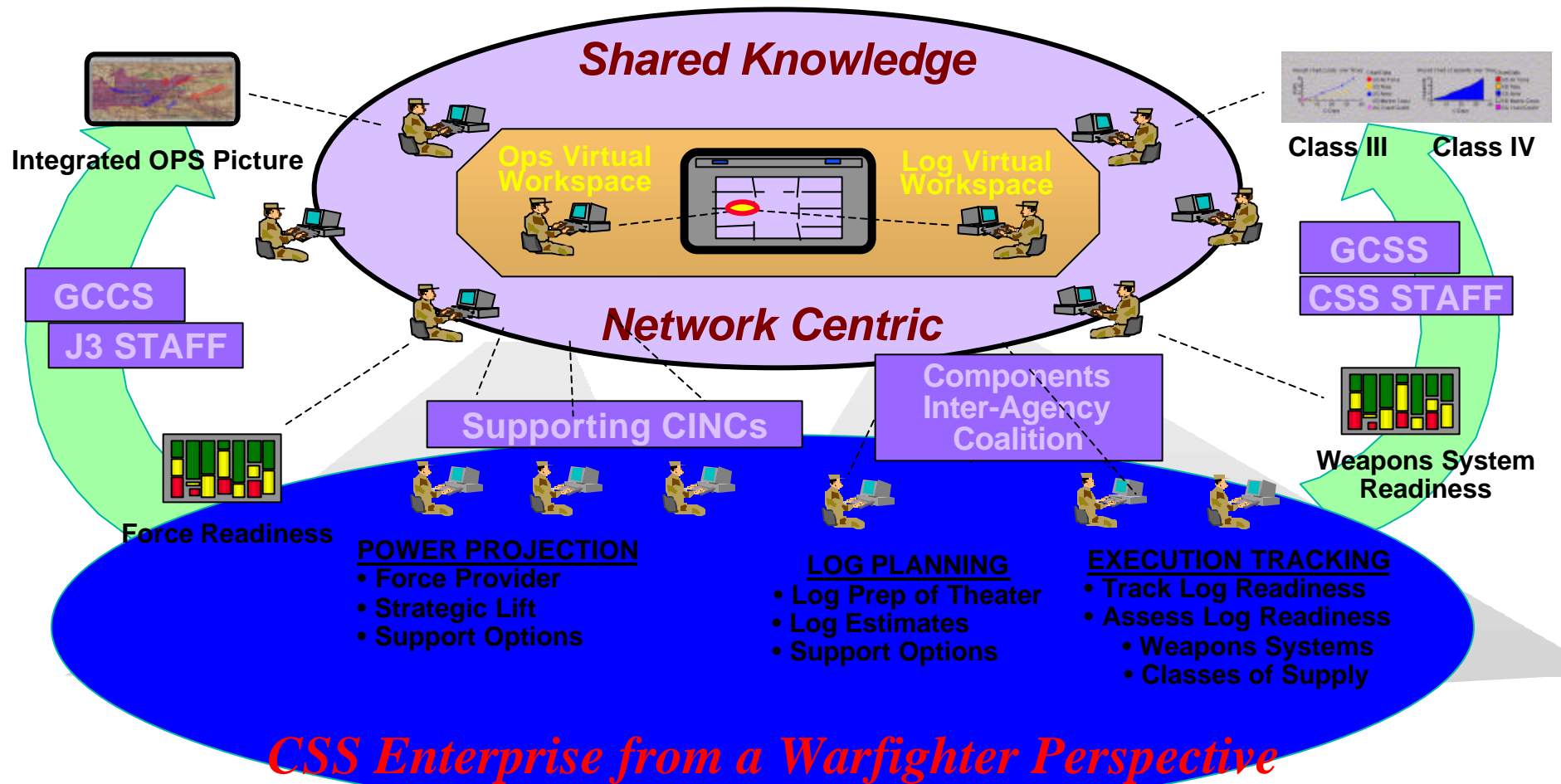
- Access to the buildup of a force capability in accordance with or without an Operational Plan (Capability Assessment Tool & Force Browser Tool)
- Automated JPERSTAT Tool

(APR 04)
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Logistics Collaboration as a Force Multiplier

Provide the Warfighter with real time operations & logistics collaborative capability to support planning and execution



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Questions??



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