C2 Enterprise Integration

BGen Robert Latiff
Vice Commander

Report Documentation Page

Report Date	Report Type	Dates Covered (from... to)
30052001	N/A	-

Title and Subtitle C2 Enterprise Integration	**Contract Number**
	Grant Number
	Program Element Number
Author(s) Latiff, Robert	**Project Number**
	Task Number
	Work Unit Number
Performing Organization Name(s) and Address(es) Electronic Systems Center	**Performing Organization Report Number**
Sponsoring/Monitoring Agency Name(s) and Address(es) NDIA (National Defense Industrial Association 2111 Wilson Blvd., Ste. 400 Arlington, VA 22201-3061	**Sponsor/Monitor's Acronym(s)**
	Sponsor/Monitor's Report Number(s)

Distribution/Availability Statement
Approved for public release, distribution unlimited

Supplementary Notes
Proceedings from Armaments for the Navy Interoperability Workshop, 30-31 May 2001 sponsored by NDIA.

Abstract

Subject Terms

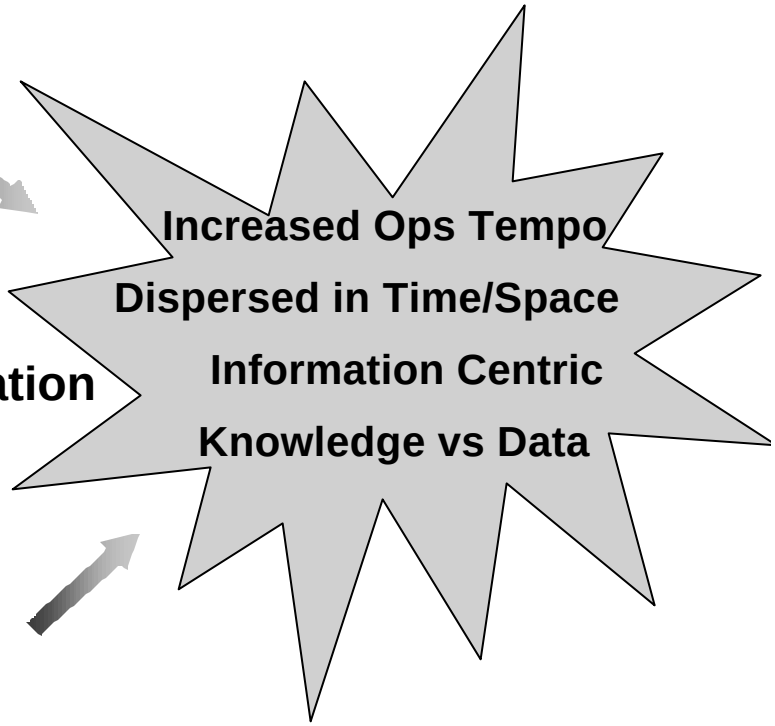
Report Classification unclassified	**Classification of this page** unclassified
Classification of Abstract unclassified	**Limitation of Abstract** UU

Number of Pages
13

Why Enterprise Integration?

Changing Warfighter Environment

Autonomous Systems	→	Integrated Aerospace Battlespace Solutions
Aging Aircraft	→	Aging Systems
Products	→	Military Capabilities
Point Solutions	→	Effects Based Modernization
Platform Centric Mgmt	→	Cross Cutting Visibility/ Leadership
System Focus	→	Sys of Sys Architect
Product Line Mod Planning	→	Capstone Capability & Core Competencies
Single Manager Focus	→	Integrated Senior Leadership Focus



Environment Requires Effects Based Capabilities

ESC Role in C2 EI

- **"To ensure C2ISR integration & interoperability issues are effectively addressed, the Electronic Systems Center (ESC) is assigned the lead role and authority for integration of Air Force C2ISR systems. ESC/CC, as the DAC for C2 Enterprise Integration, will direct actions to ensure the integration of C2ISR systems, and to assure their interoperability with Joint and international systems."**

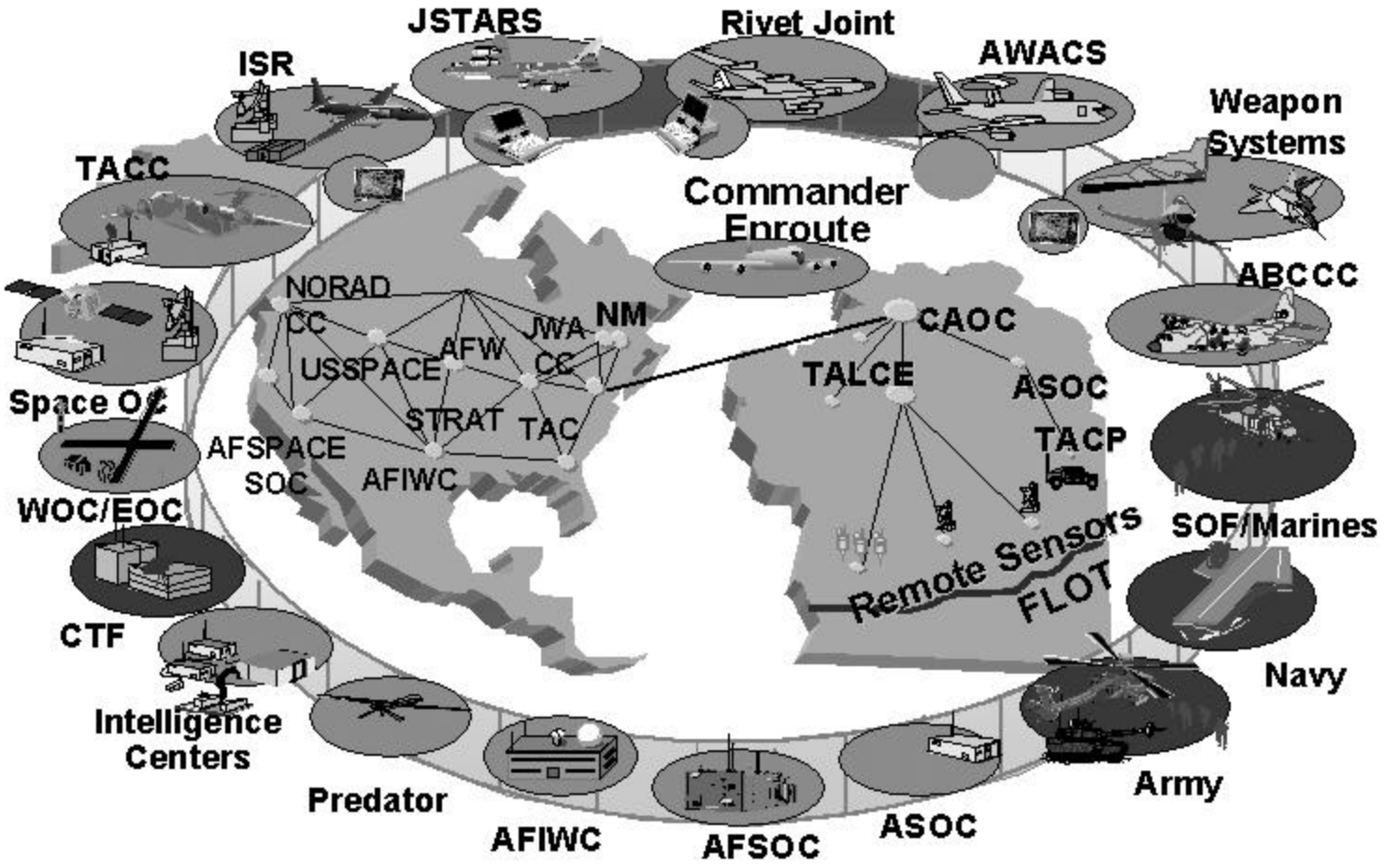
- **"ESC will also lead C2 Enterprise Integration planning and identification of required resources to ensure all USAF C2ISR systems are integrated and interoperable within the USAF and DoD C2ISR framework."**

Lawrence J. Delaney, Asst Secretary of the Air Force (Acquisition), 06 Feb 01

Strategy for Delivering Integrated C2ISR

- **Nodal Approach**
- **Architecture-driven/Capability-based**
- **Integration/interoperability-focused**
- **Experiment-driven & Evolutionary Acquisition/spiral Development-enabled**
- **Modeling and Simulation**

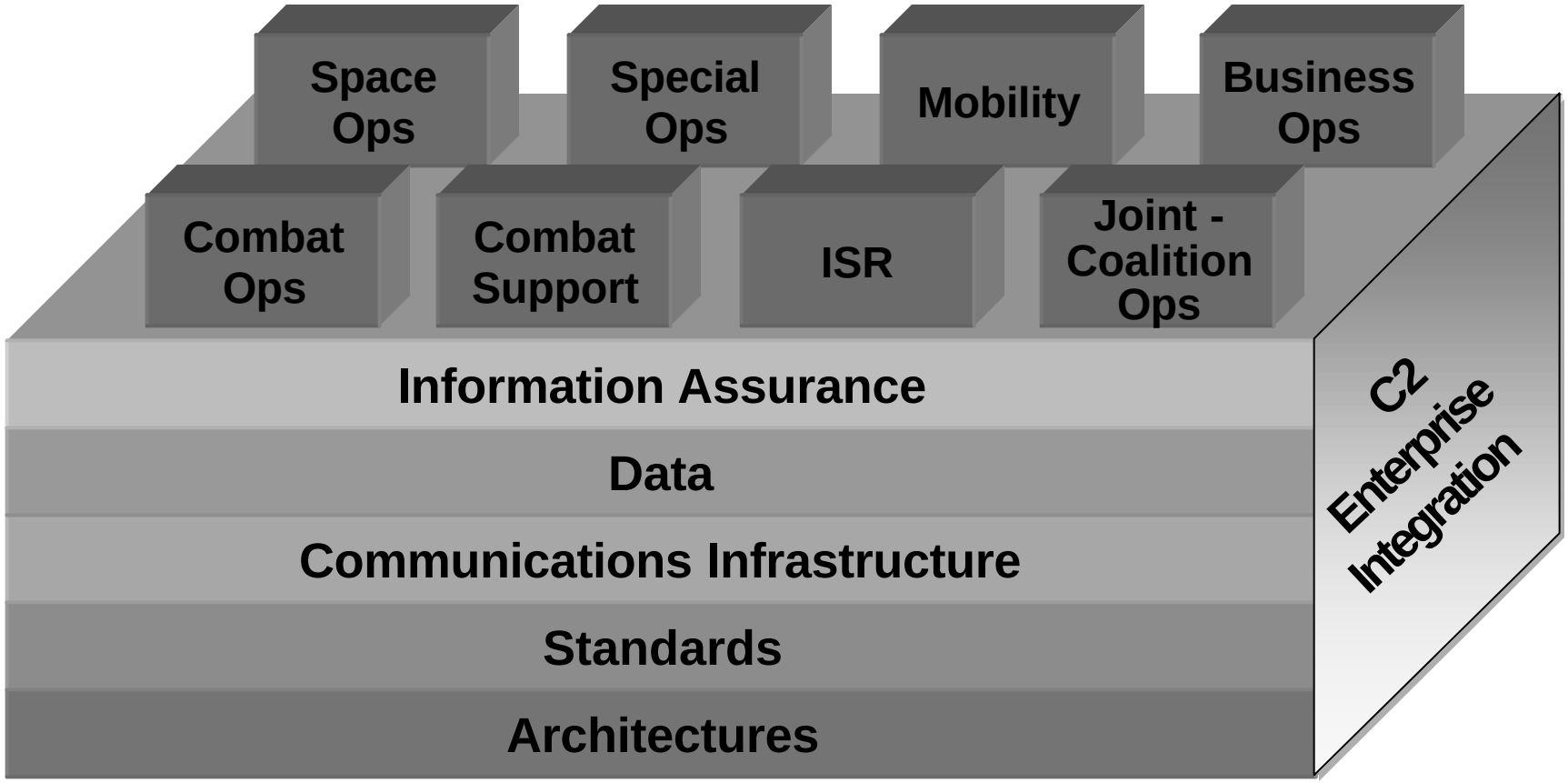
Integrated C2ISR



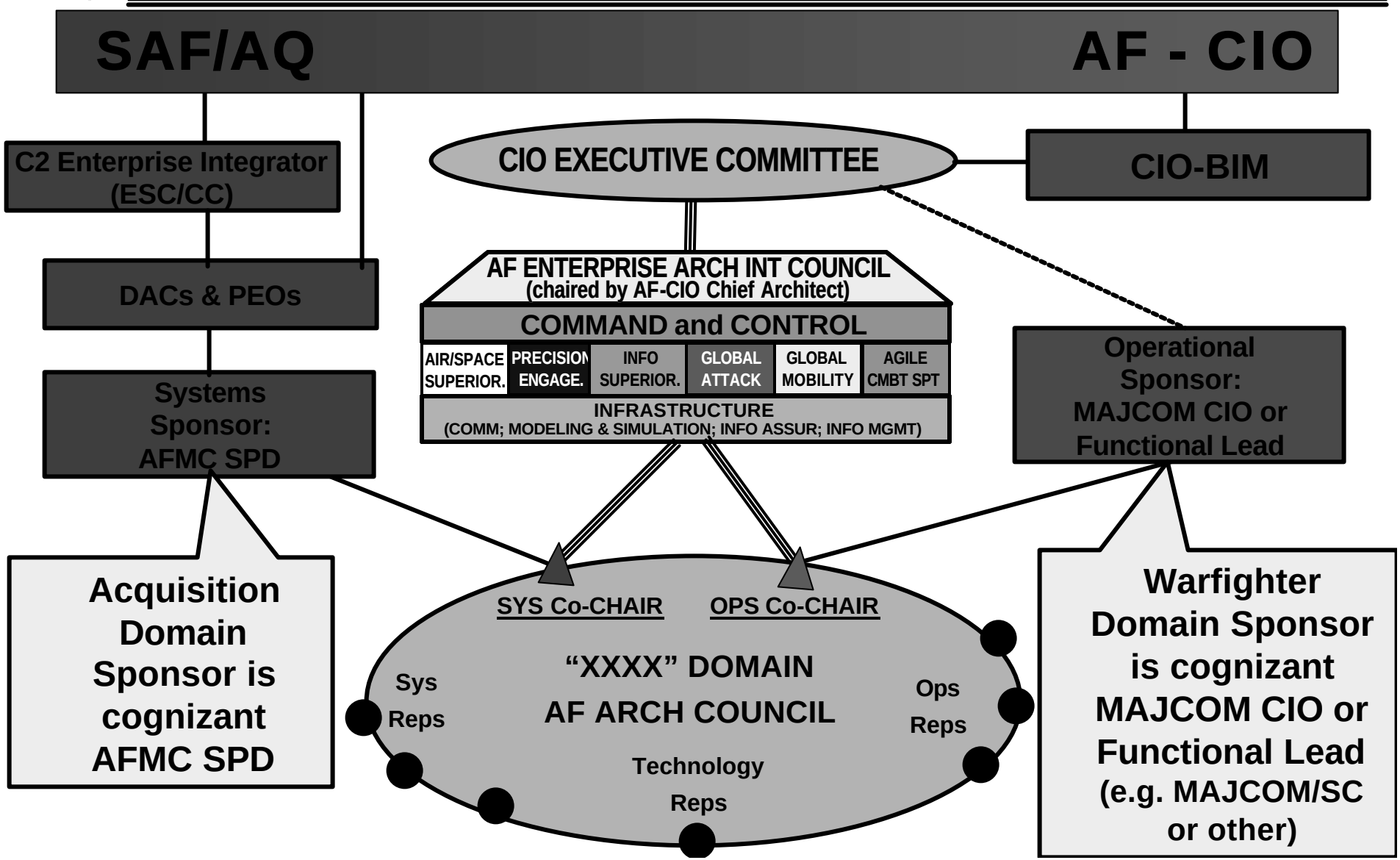
Efficient & Cost Effective
Decision Quality Information to the Warfighter

Electronic Systems Center

C2ISR Center of Excellence



Architecture Council Management



Analysis of Roadmap Alternatives (ARA)

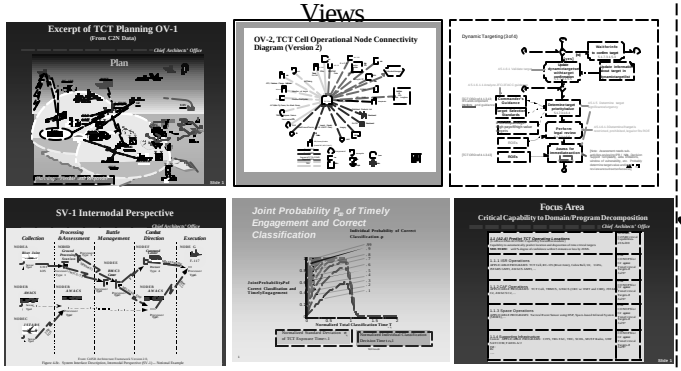
<u>Purpose:</u> Build an integrated, mutually supportive materiel-solution input to the annual C2ISR APOM/POM process

Products: Fully integrated Cross-Program Roadmaps for each Focus Area, backed by Architectures.

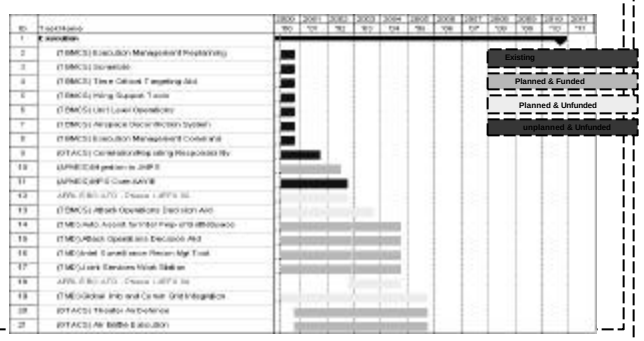
Feed Capability Decision Package

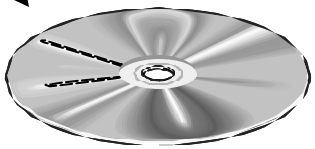
ARA Architecture

Sample Operational and System Architecture Views



Sample Integrated Program Schedules

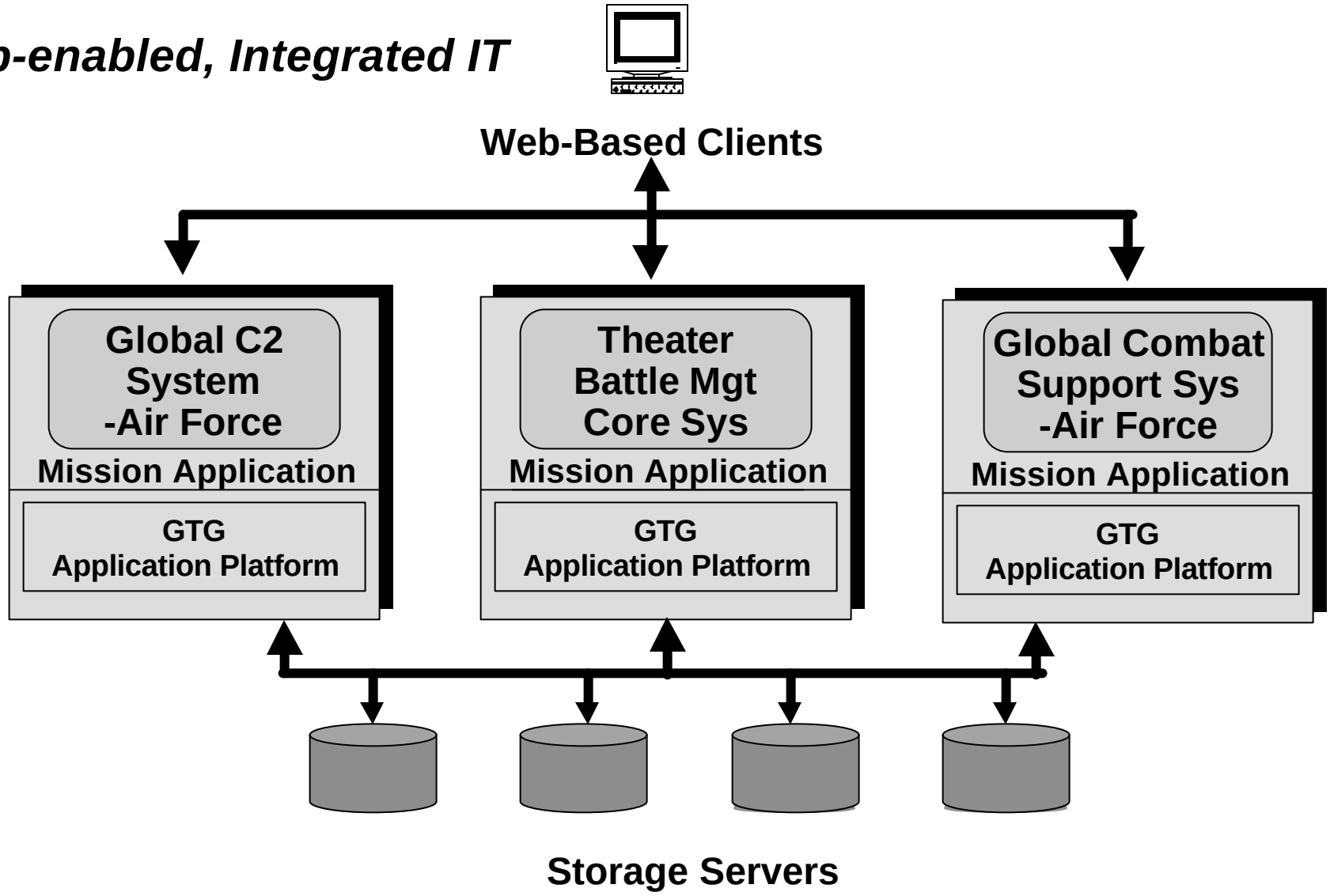




Focus Area Capability Decision Package (CDP) Inputs for POM/APOM

Example: Web-Based Integration

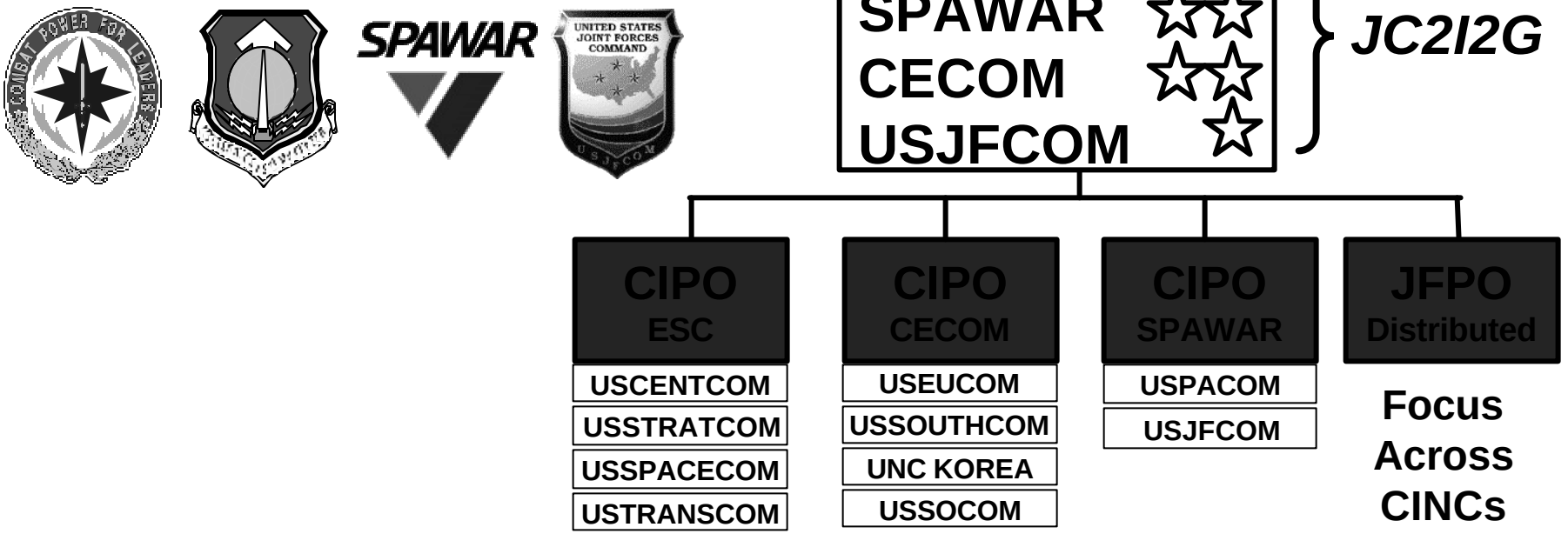
Web-enabled, Integrated IT



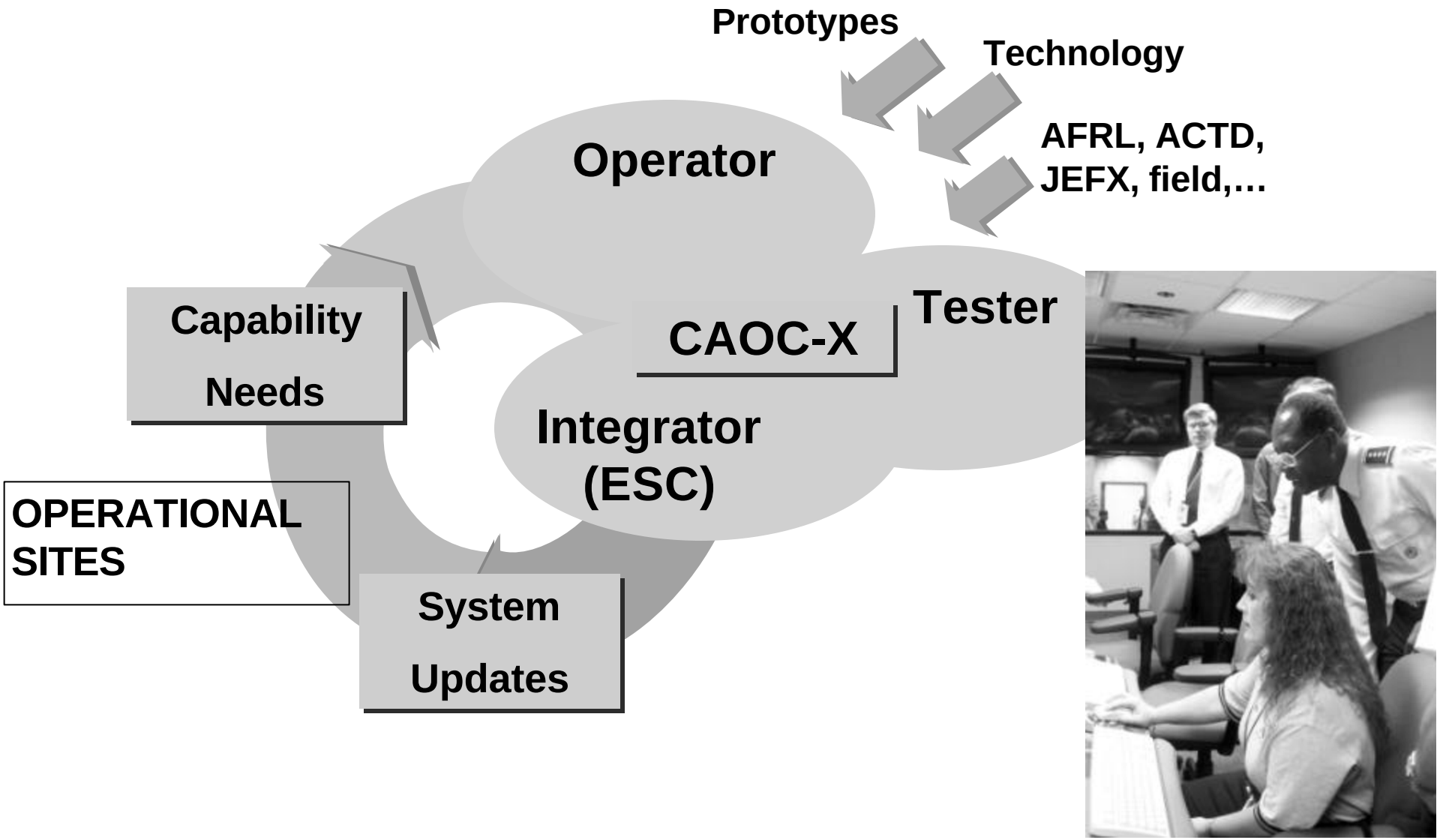
CINC Interoperability Program Office(s)

Key CIPO Challenges

- *Getting SYSCOMS to Think/Act Joint*
- *Joint Acquisition Teaming*
- *Embed CINC Ops Tempo*



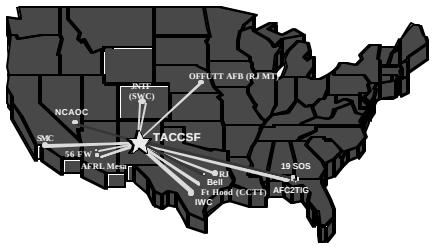
Combined Air Ops Center Experimental



Analysis Using Synthetic Battlespace

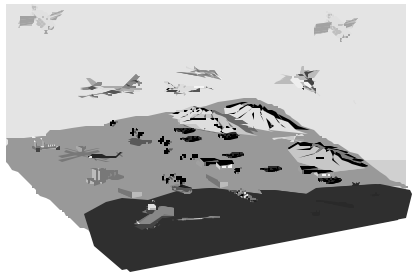
- **Immerses Acquisition Process Into Warfighter Environment**
  - **Quicker Fielding – Avoid Redesign/Mistakes**
  - **Cost Avoidance – Total Systems Savings**
  - **Improved Product – Better Design/Operator Interfaces**

WARFIGHTER



- **Training**
- **Mission Rehearsal**
- **Ops Definition**

SYNTHETIC BATTLESPACE



- **Repeatable**
- **Variable Resolution/Fidelity**
- **Verified/Validated/Trusted**
- **Distributed or Standalone**
- **"Corporate" Infrastructure**

ACQUISITION

- **Government Sites**
- **Contractor Sites**

- **Technology Analysis**
- **Design Trades**
- **Systems Engineering**
- **Integration and Test**
- **Operational Testing**

Partnerships for C2 Enterprise Integration