

The C2 Platform

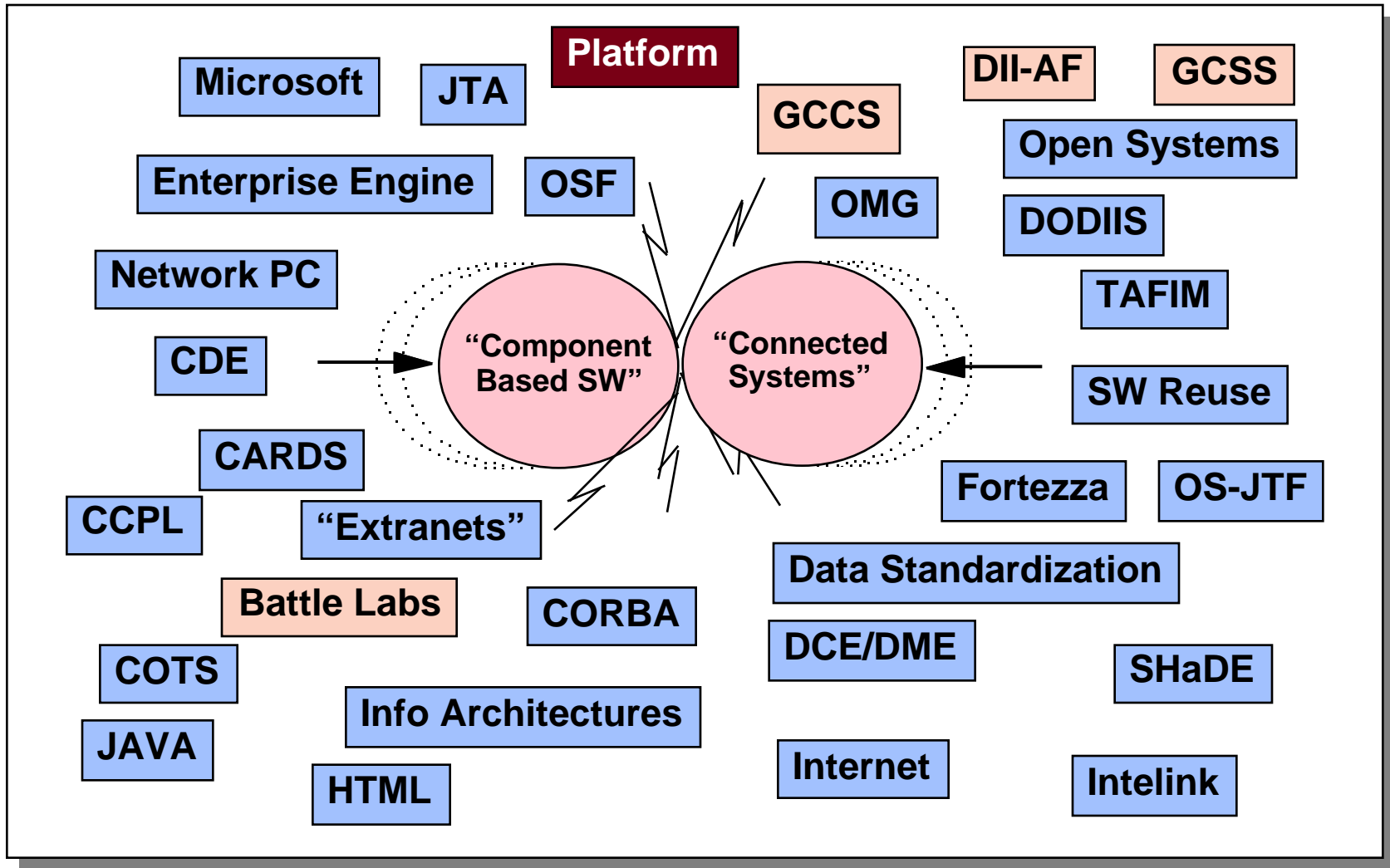
Vision, Challenges, & Strategy

Two Simple Ideas

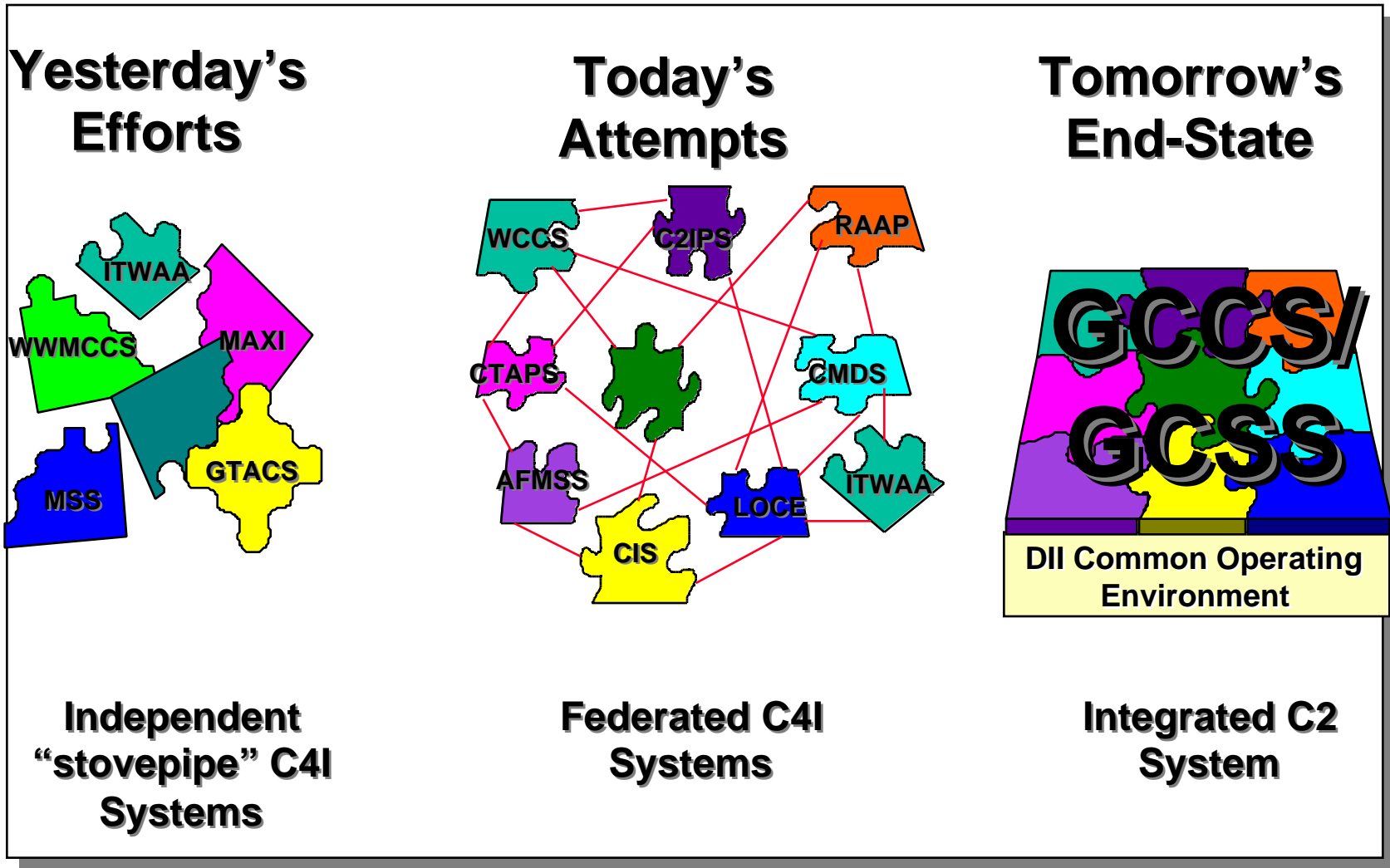
One old, One new

- **Old Idea:**
 - **Software intensive systems could be better and faster built if software came in reusable “components” analogous to those used in the integrated circuit industry.**
 - **Commercial software technology is making this possible**
 - **(OO, Java, CORBA, DCE, OLE, etc.)**
 -
- **New Idea:**
 - **There are many possibilities for exploiting systems which are interconnected via sophisticated networks**
 - ***The internet is providing both means and inspiration***

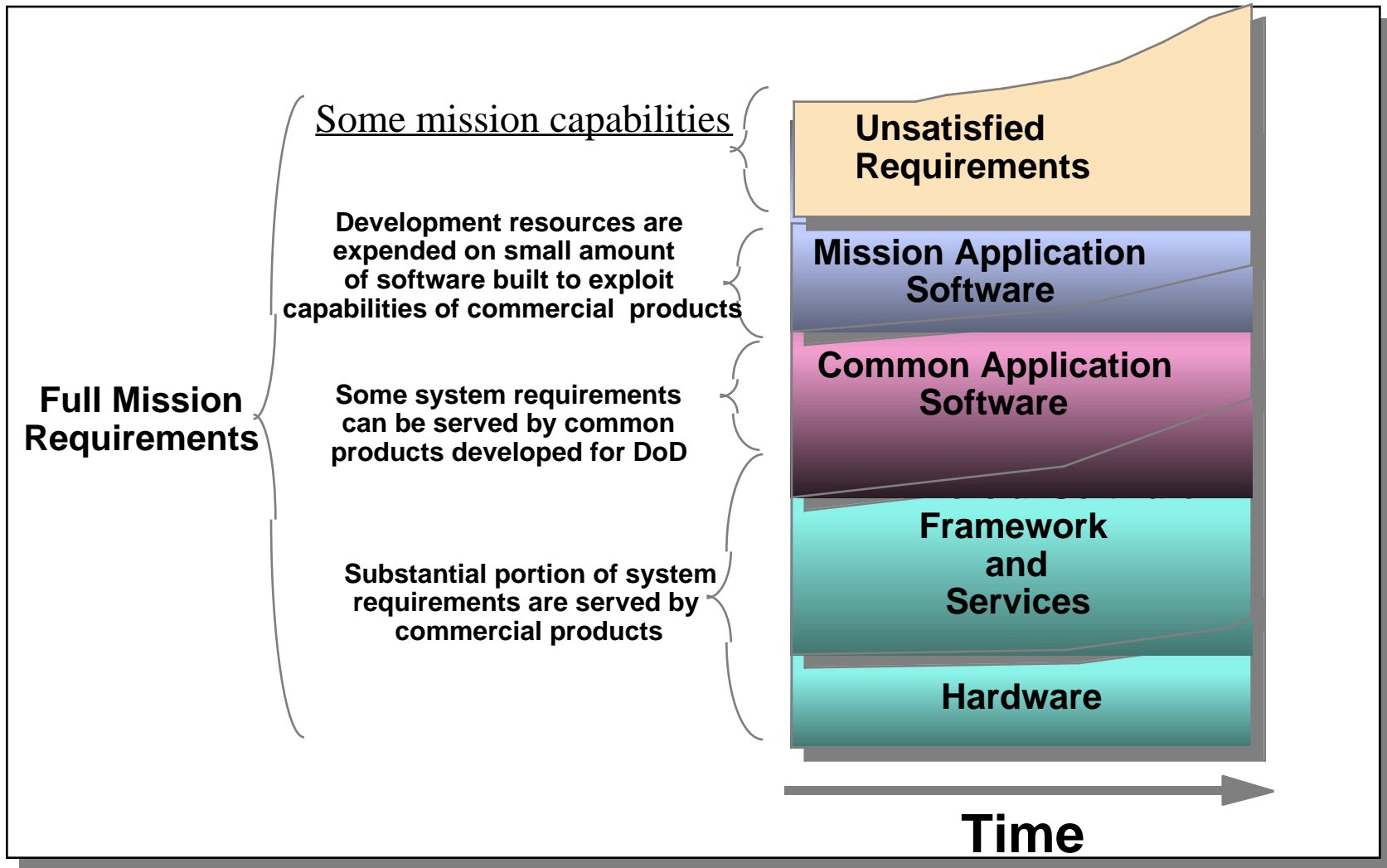
Two Simple Ideas Made Real and Brought Together, Spawn Many More Ideas



AF C2 System Vision Platform Directorate View



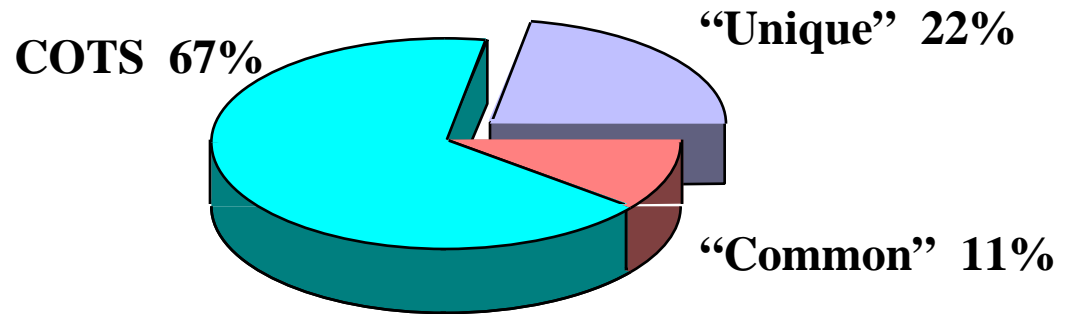
Leveraging Commercial Products - The Promise of “Open” & “Structured” Architected Systems



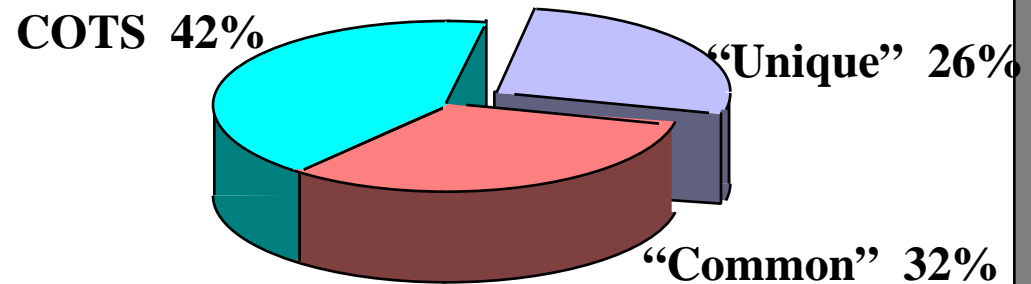
Changed SW and HW Development Environment at ESC

Average of Percentages for 22 Major ESC Systems

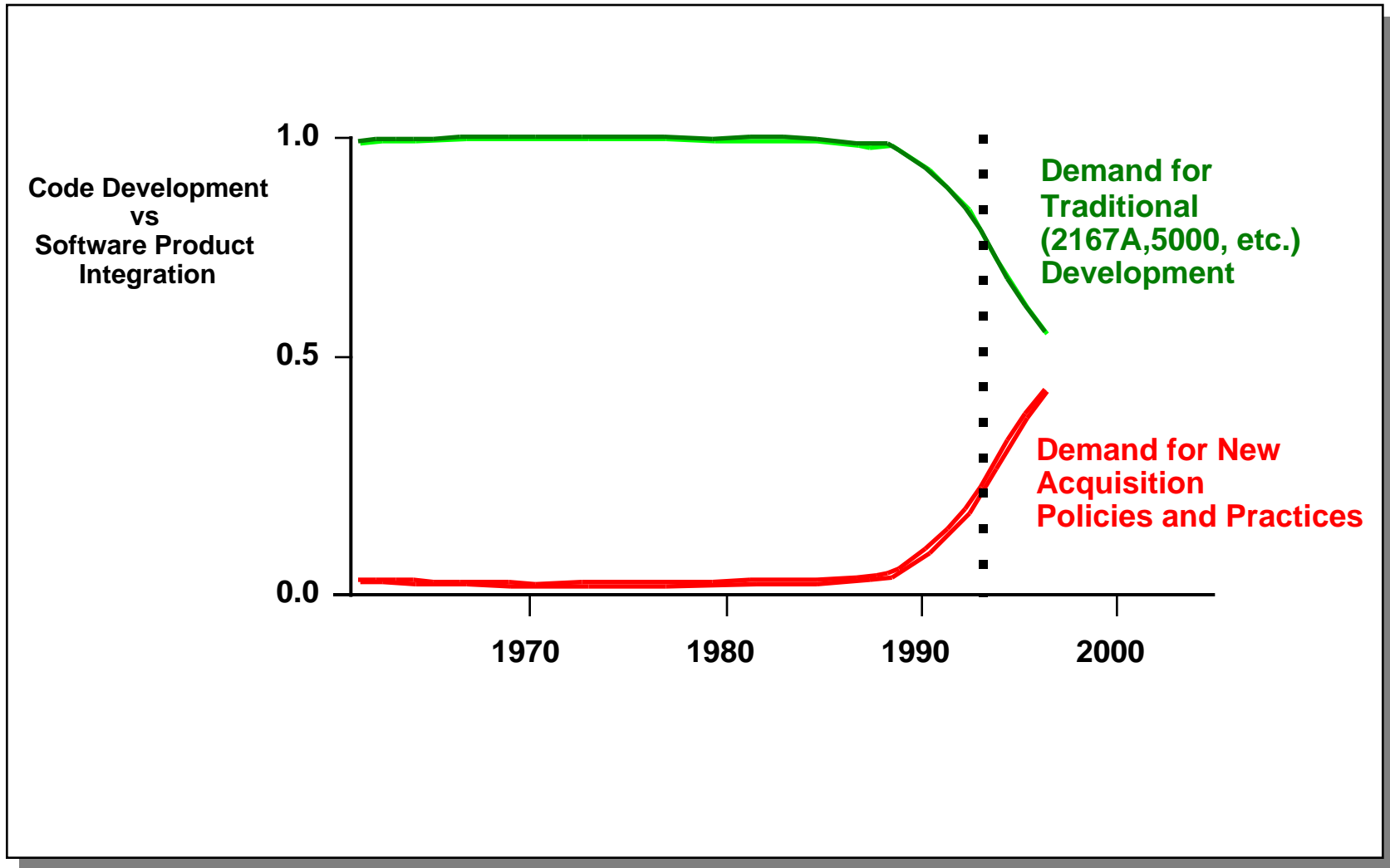
Hardware



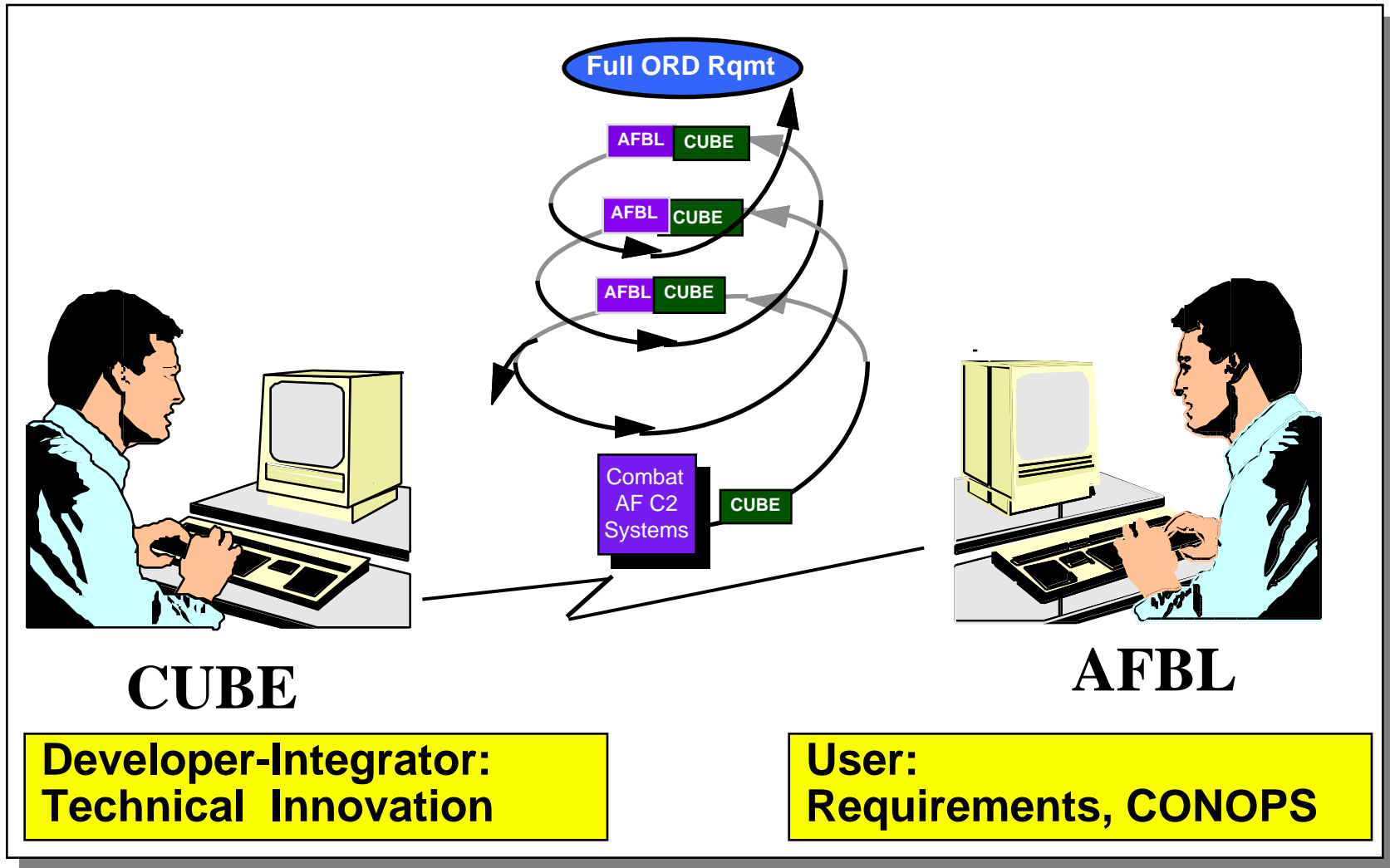
Software



Information System Acquisition Policy & Practice Considerations



CUBE - AFBL Partnership



What is the Integrated C2 Platform?

- **It is a set of “things”**
 - **Systems Infrastructure - “truly” Common Operating Environment**
 - GCSS, GCCS, TBMCS core, IMDS, DCE, CORBA, OMG, DODIIS, JTA
 - **Data Infrastructure - common semantic basis for C2 Interoperability**
 - DDRS, SHADE, DIBCIS, Nat’l Spatial Data Infrast., Pedigree mgmt., etc.
 - **Facilities - Defense Information Infrastructure (DII)**
 - AFBL’s, OPFAC’s, CUBE, TIN, SIPRNET, MASC, Industry & other service connections
 - **Suite of software versions:**
 - operational, train & exercise, requirements exploration, test and evaluation, wargame model/simulation analysis
- **It is a set of “activities”**
 - **Requirements connection from “ field-to-laboratory- to-field”**
 - Forward Falcon, Bosnia reachback to ESC/MITRE, etc.
 - **Bandwidth and configuration management**
 - Orchestrate delivery media for information, software update, configuration control, and system’s administration, etc.
 - **Funding strategy**
 - Existing Architecture initiatives, CORONA endorsement, etc.
 - **Strategy for continuous evolution**
 - “Managing Chaos”, recognizing popularity trends, etc.
 - **Training, exercise, wargaming, analysis, & doctrine enhancement**

Strategy

- **Project strategy:**
 - Establish Common Program Management Directives**
 - Chief Architect
 - Architect Council = Chief Architect & Chief Engineers
 - **Community strategy:**
 - Technical Architecture
 - COE development
 - Data management
 - Mission Applications interfaces
 - System Architecture
 - Interface compliance evaluation
 - Interoperability Labs
 - Operations Architecture
 - User defined CONOPS
- CUBE/AFBL Spiral Evolution**
- R&D Investment**
- “Decision Relevant Information Management”
 - “Managing Chaos”