



**Information Technologies
for Logistics Operations:
Impact on People,
Processes & Readiness**

A Logistics PM Perspective

9 April 2009

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Operationalizing Information Technology

Progress Is Being Made...Don't wait for perfection

People → Expanding Timely Sustainer Knowledge

Not Data, Not Just Information → Focused Knowledge

Processes → Integration Yields Agility & Adaptability

Design-Manufacturing & Now Logistics Tools Enhanced & Integrated

Readiness → Affordable Early & Sustained Operations

Reduced Design to Field Cycle with Inherent Supportability

Intermittent Serial Communication Evolving to Globally "As Needed" Knowledge

The Changing Logistics Support Environment

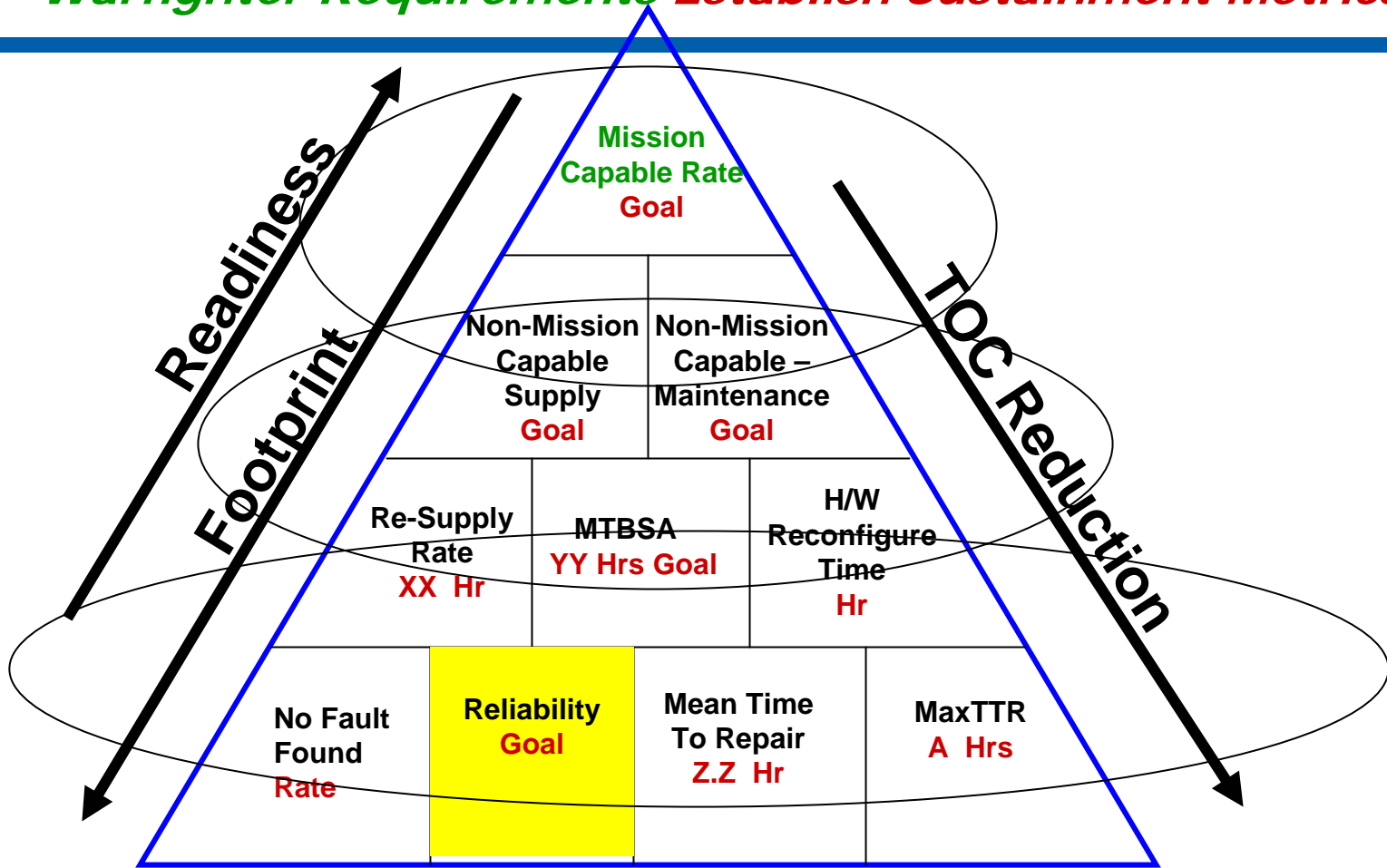
Integrated Acquisition and Life Cycle Sustainment Strategy:

- Processes, Toolsets and Knowledge Management
- Fielded Product Cycle Times are Reduced and Tech Refresh is More Rapid
- Flexible, Agile & Reconfigurable Forces Require Rapid & Adaptive Support
- Performance Based Life Cycle Product Support Reduces Sustainment Costs
- Improved System Reliability and Early Field Reliability Projections Require Legacy / New System Sustainment Data and Feedback Loop
- Risk and Configuration Change Management is Critical
- Warfighter Requirements → Sustainment Goals & Metrics

***Knowledge + Metrics = Focused Support
→ Enables Operational Sense and Respond Logistics***

PBL MEASURES OF SUCCESS

Warfighter Requirements Establish Sustainment Metrics



System and Support Performance
Full Mission Capability Throughout Life Cycle

Metrics Management Requires Accurate Timely Data

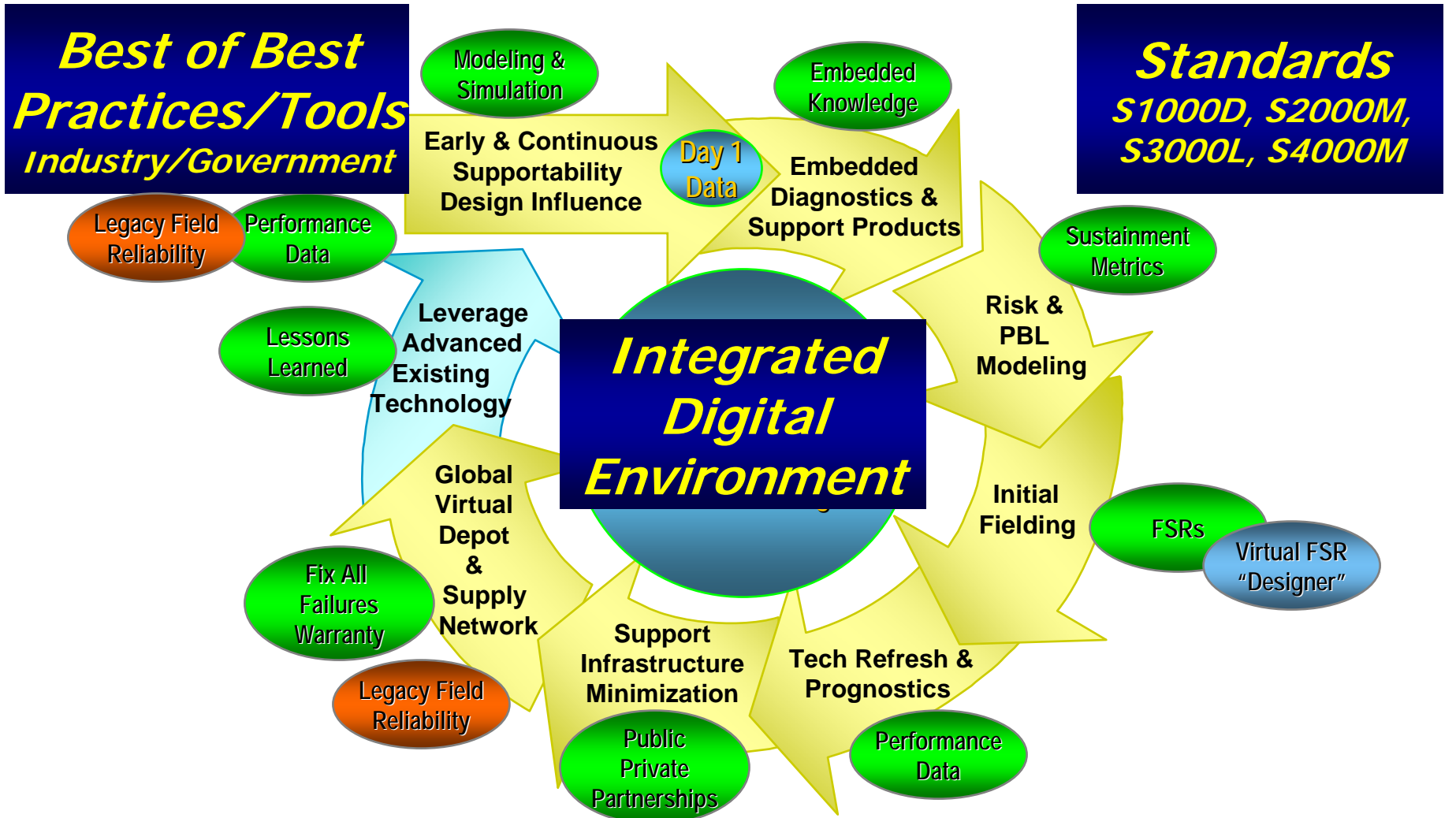
**Demonstrating Metric Compliance
Requires
Accurate Maintenance Data**

**Improving Logistics Performance
Implies Contractor Control over
Supply Support & Configuration**

- **Organizational Level Maintenance Data**
- **Depot Level Maintenance Data**
- **Fielded Reliability Data**
- **Supply Support Data**
- **Configuration Control Data**

**Requires Comprehensive
Data Management System**

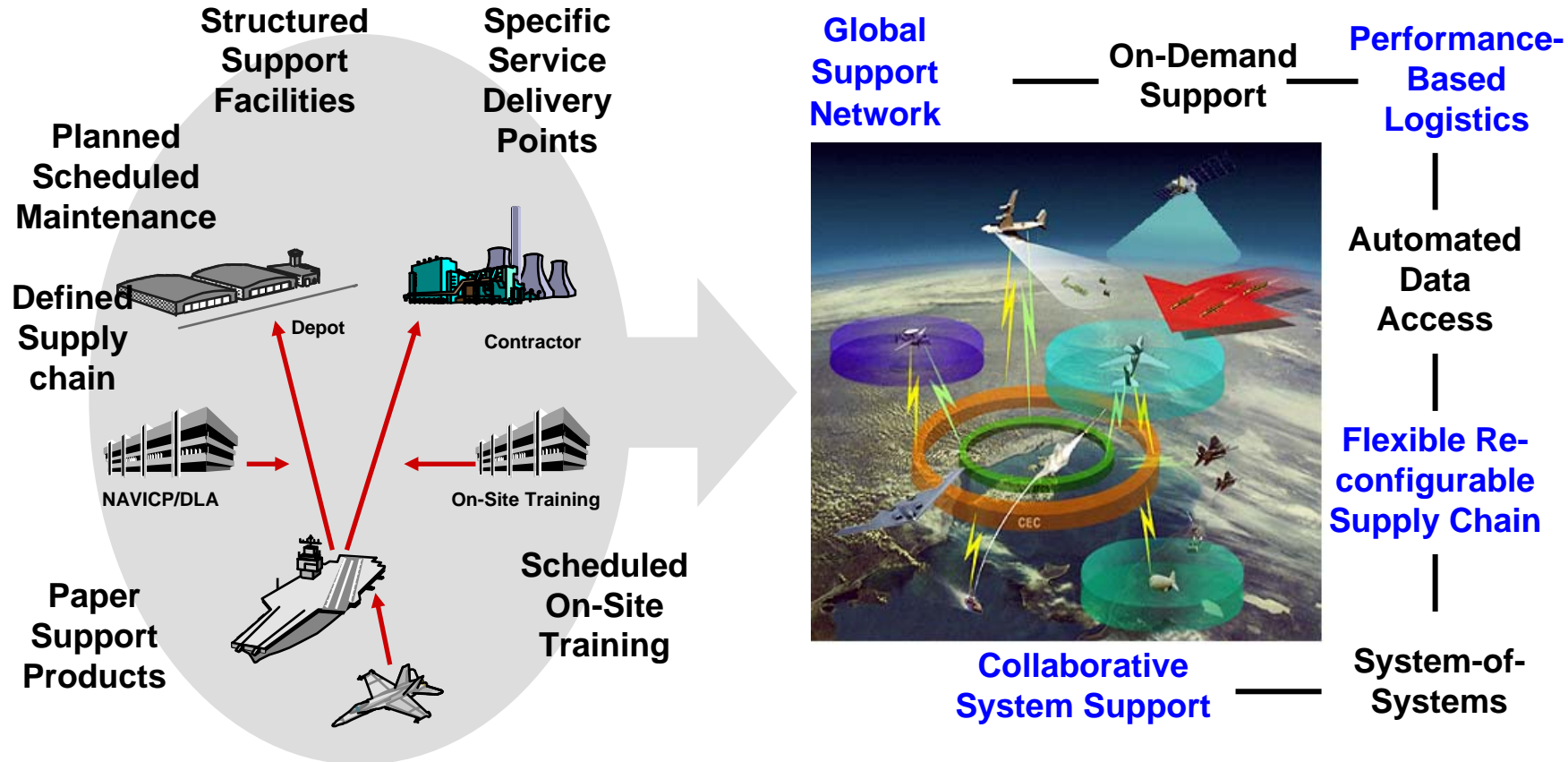
Integrated Acquisition and Life Cycle Sustainment



Acquisition & Sustainment Evolution is Accelerating

IDE Facilitates Change

ILS Business Process Transformation

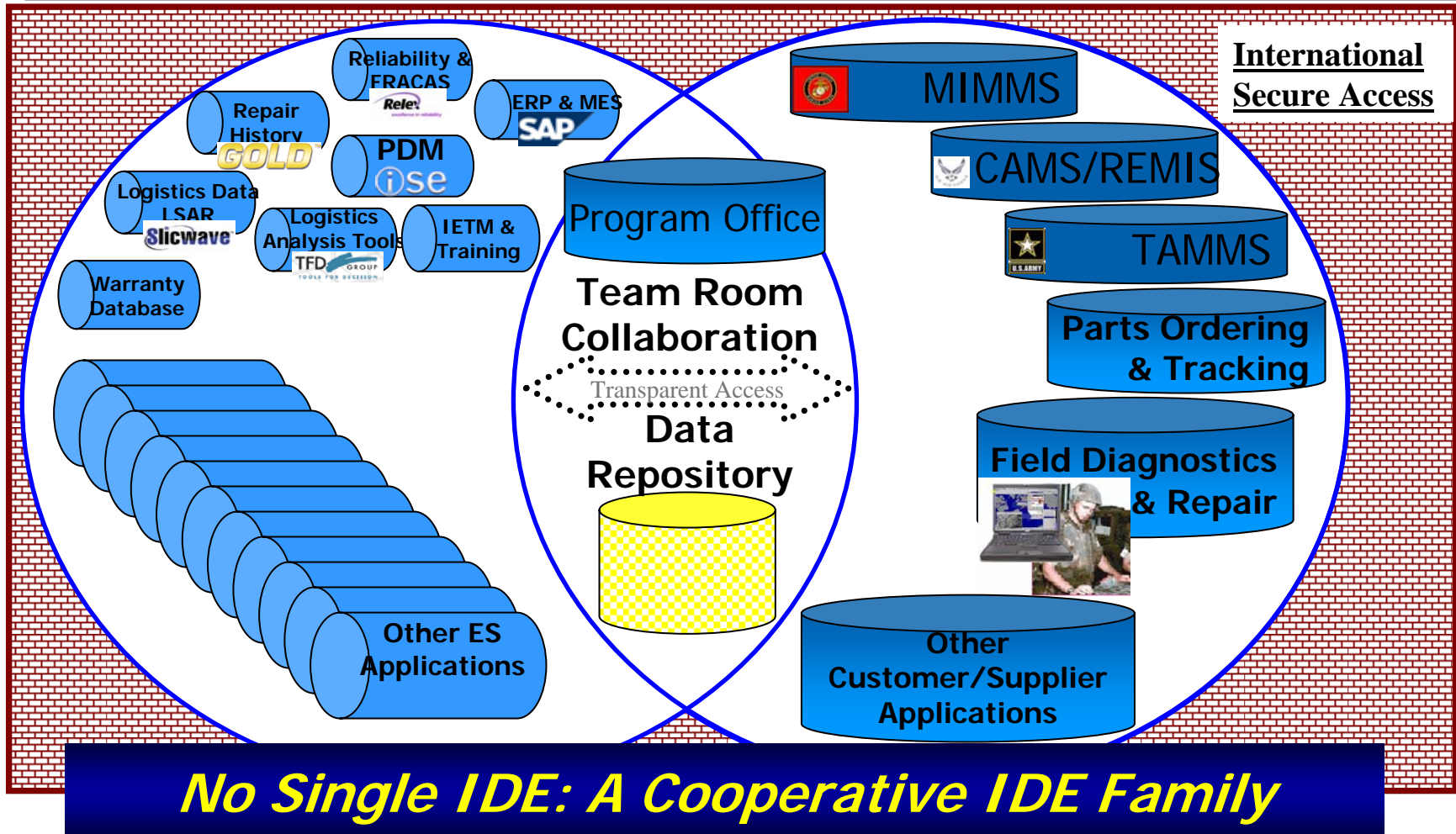


Industry has Integrated Design-Supply Chain Manufacturing: and Now Improving the Sustainment Via Similar Processes and Tools

IDEs – Architectures Vary Across Team-Mates & Programs

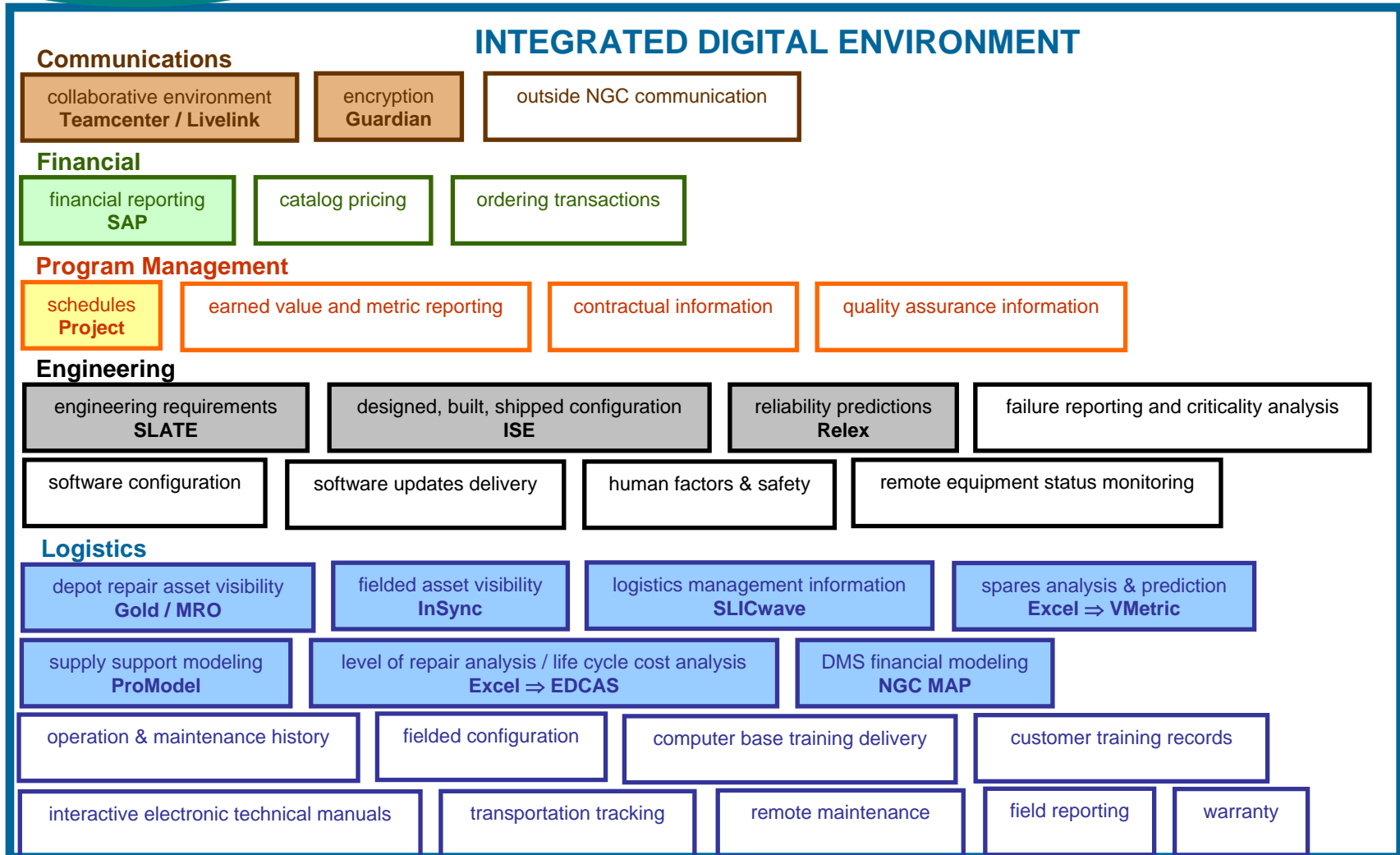
Internal Contractor
Infrastructure Linkage

Program/Partnership
Linkage & Data Security



No Single IDE: A Cooperative IDE Family

IDE – Functional View



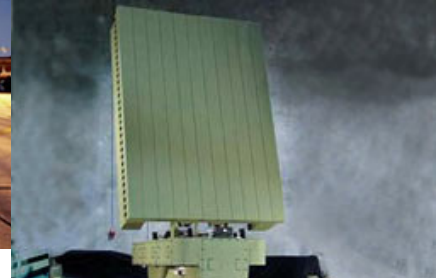
Observations and Past Experience

Grow towards Perfection: Generally Not Timely or Affordable to Create Emerald City

- 80% Solutions To Provide Knowledge at Lower Cost
- The Goal of Operationalizing IT should Not be to generate the biggest database with real time access of All by ALL
- Don't rapidly evolve from clean process flows to spiders webs to rats nests
- Need Collaboration by Tier 1/2/3 Contractors / Government via Consortiums and Public Private Partnerships



***The Sustainment Community is Experienced:
Operationalizing IT WILL Enhance Knowledge to
Reduce Risk & Cost for Agile Life Cycle Sustainment***



NORTHROP GRUMMAN

