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Aerospace and Defence Special Interest Group Logistics Information Management Enterprise Data Warehouse (EDW)

Version 1.0

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1 Case Study - Context & Background

2 Value Add – Information Exploitation

3 Challenges

4 Lessons Learnt

5 Summary

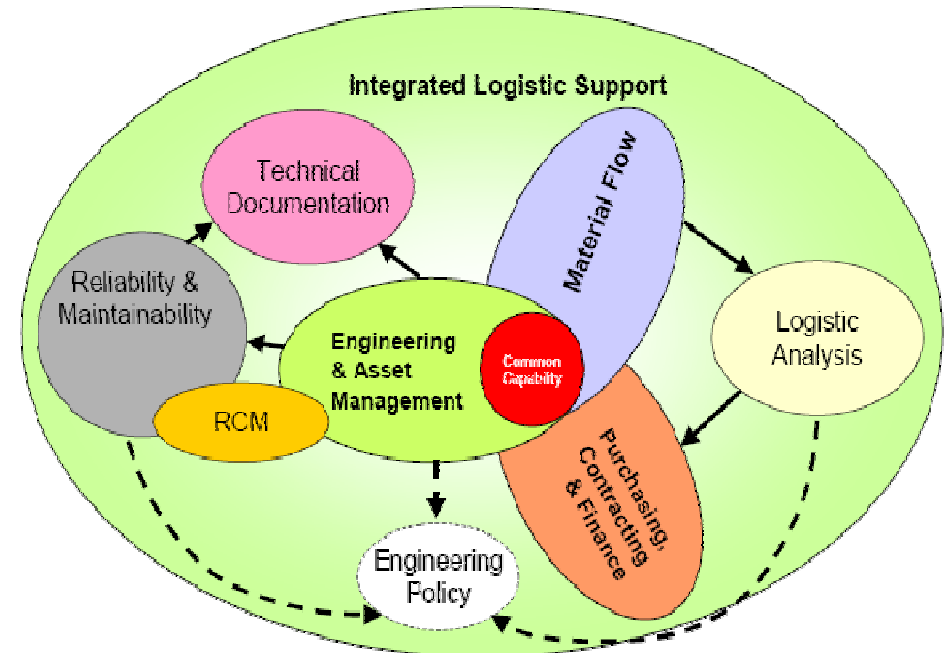
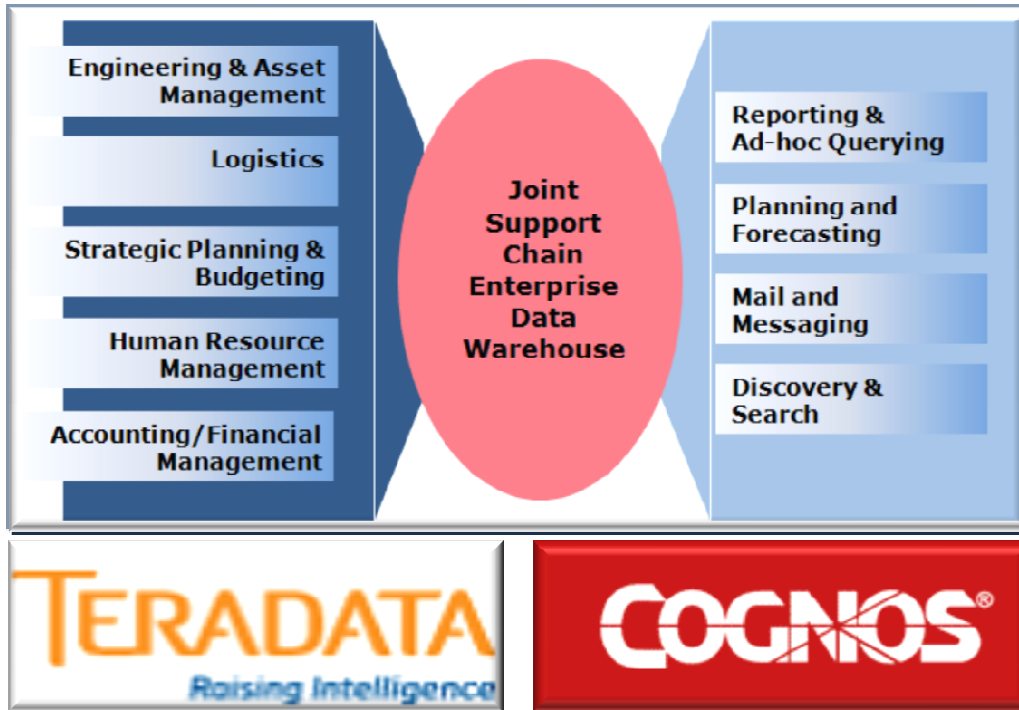
6 Q&A



JSC EDW Overview



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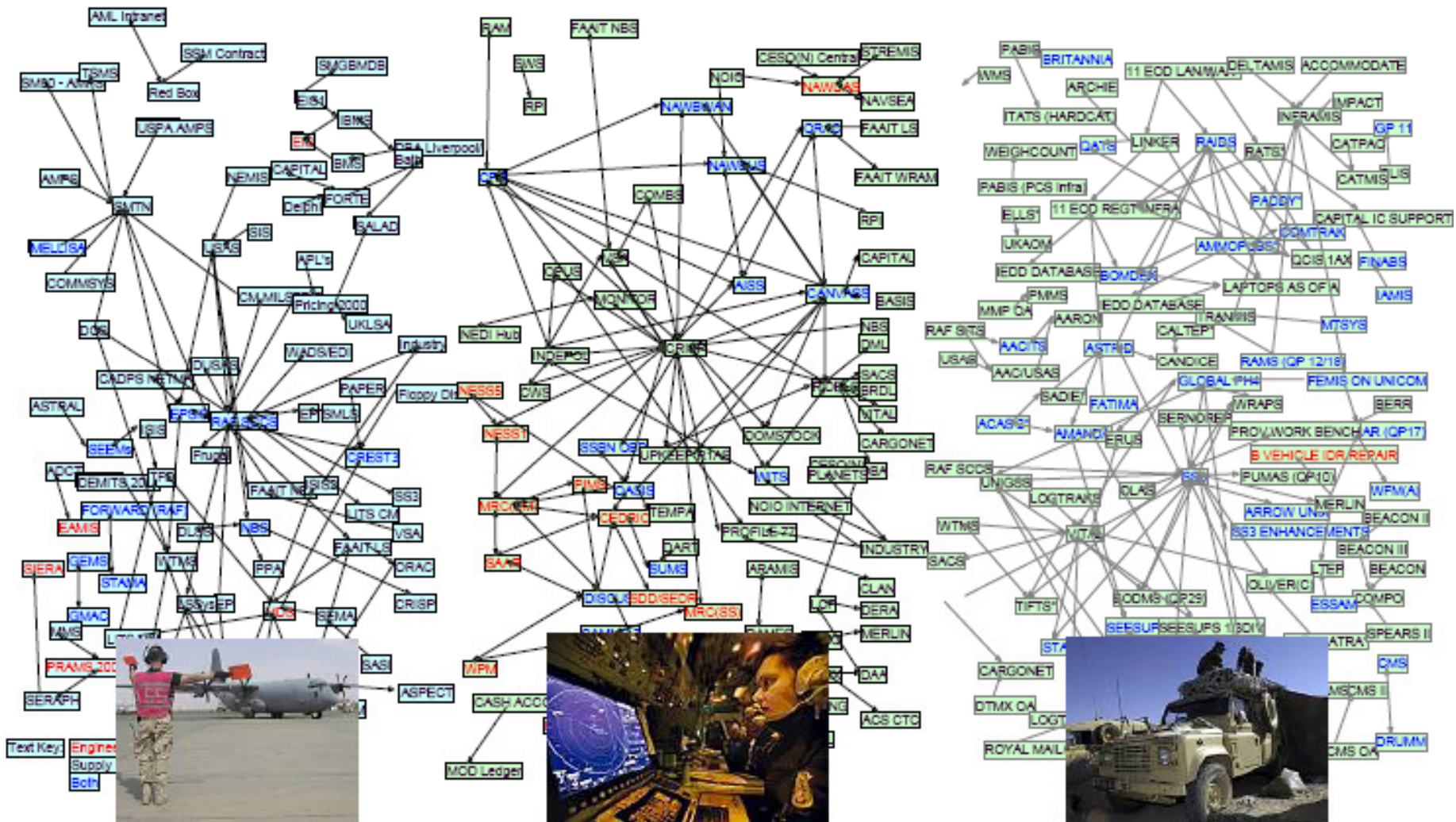


- **Enterprise Legacy Data Integration**
- **Business Intelligence**
- **Data Service**

The Challenge



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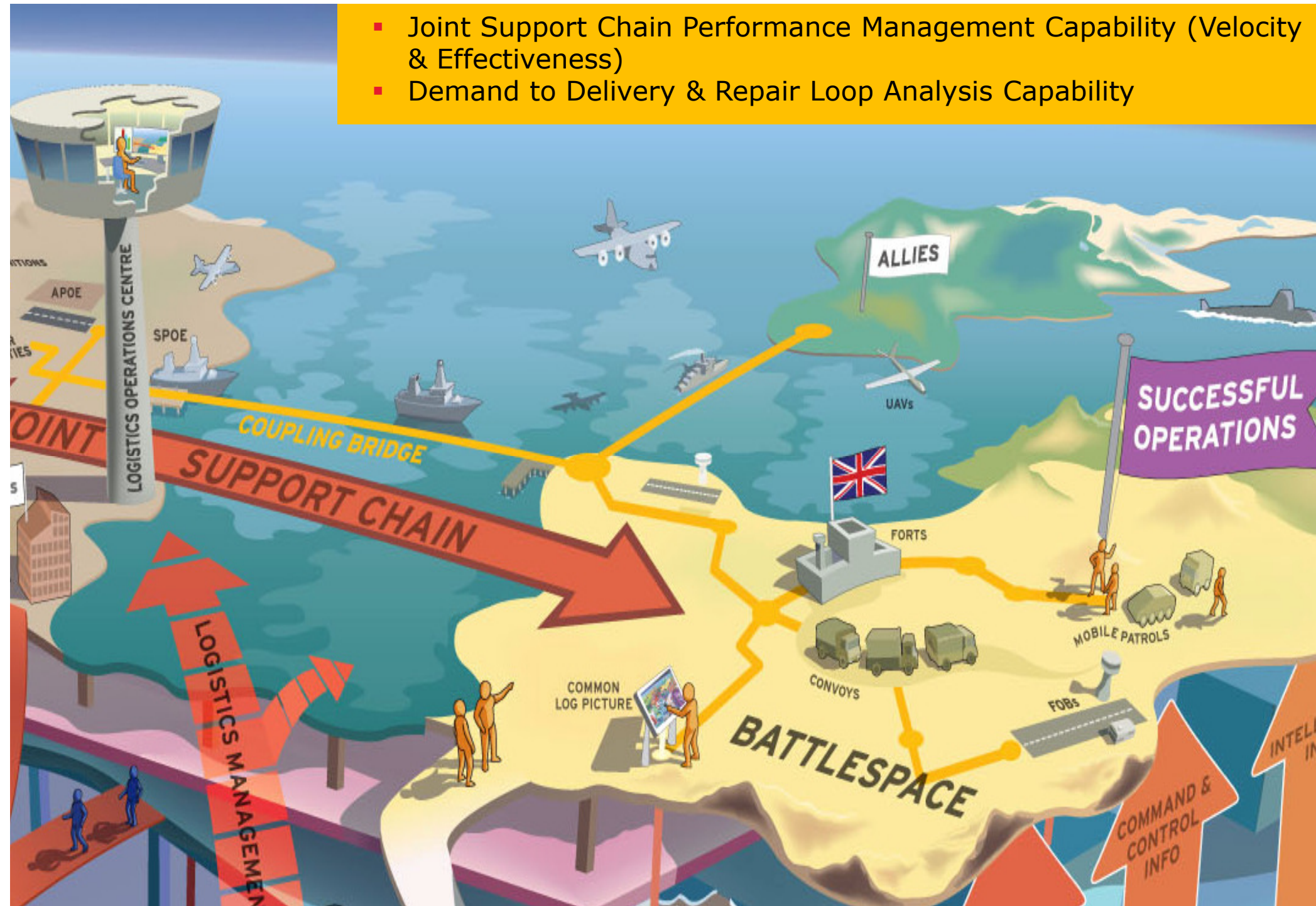
- Timely arrival of items
- Avoidance of losses
- Identification of supply chain failure
- Reduce inventories (stock holding)
- Planned repair loops can be efficiently managed
- Minimise financial & operational risks
- Optimise to maximise availability



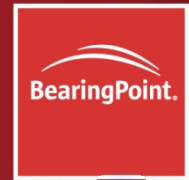
- CLS Contract Performance Monitoring KPIs
- Inventory Segmentation Analysis Capability
- Fault Analysis Capability
- Maintenance Reporting and Reliability Analysis Capability
- Inventory Management, Optimisation and **Budgeting & Planning**



- Joint Support Chain Performance Management Capability (Velocity & Effectiveness)
- Demand to Delivery & Repair Loop Analysis Capability



Sample Cognos BI Reports



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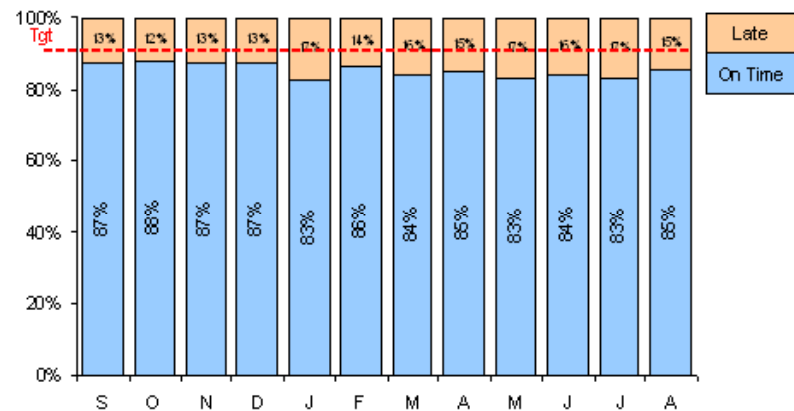
Fictitious Dataset

FIXED WING SUPPLY CHAIN OVERVIEW

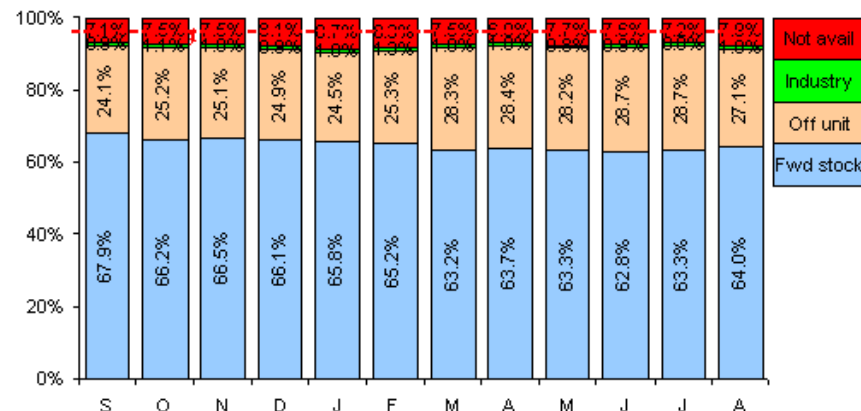
A0 – Total Demands

Shows overview of all air stores demands for Fixed Wing regardless of item, platform, IPT or location.
All demands for the period Sep 07 to Aug 08

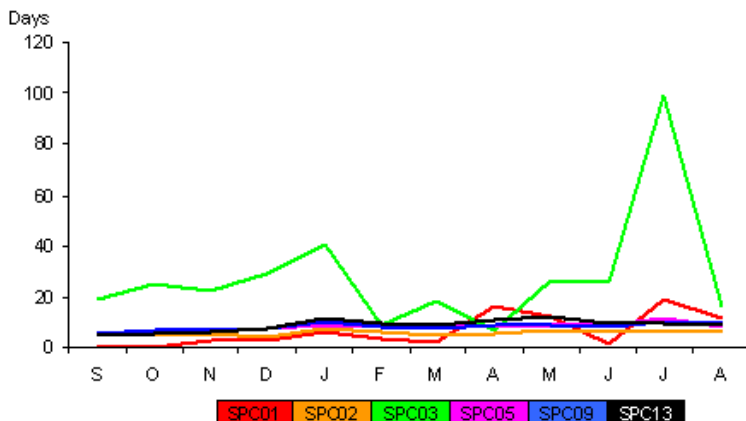
Reliability



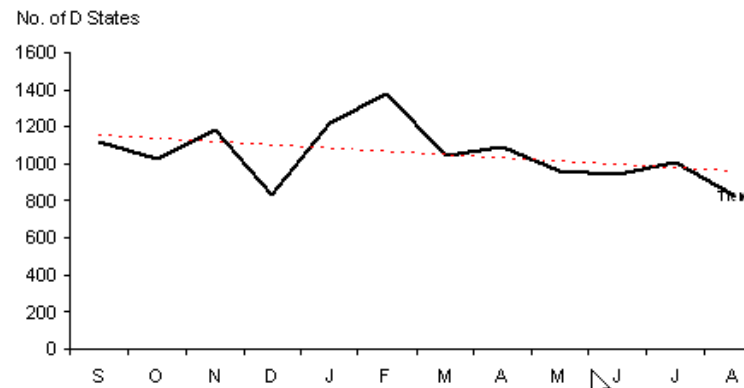
Availability



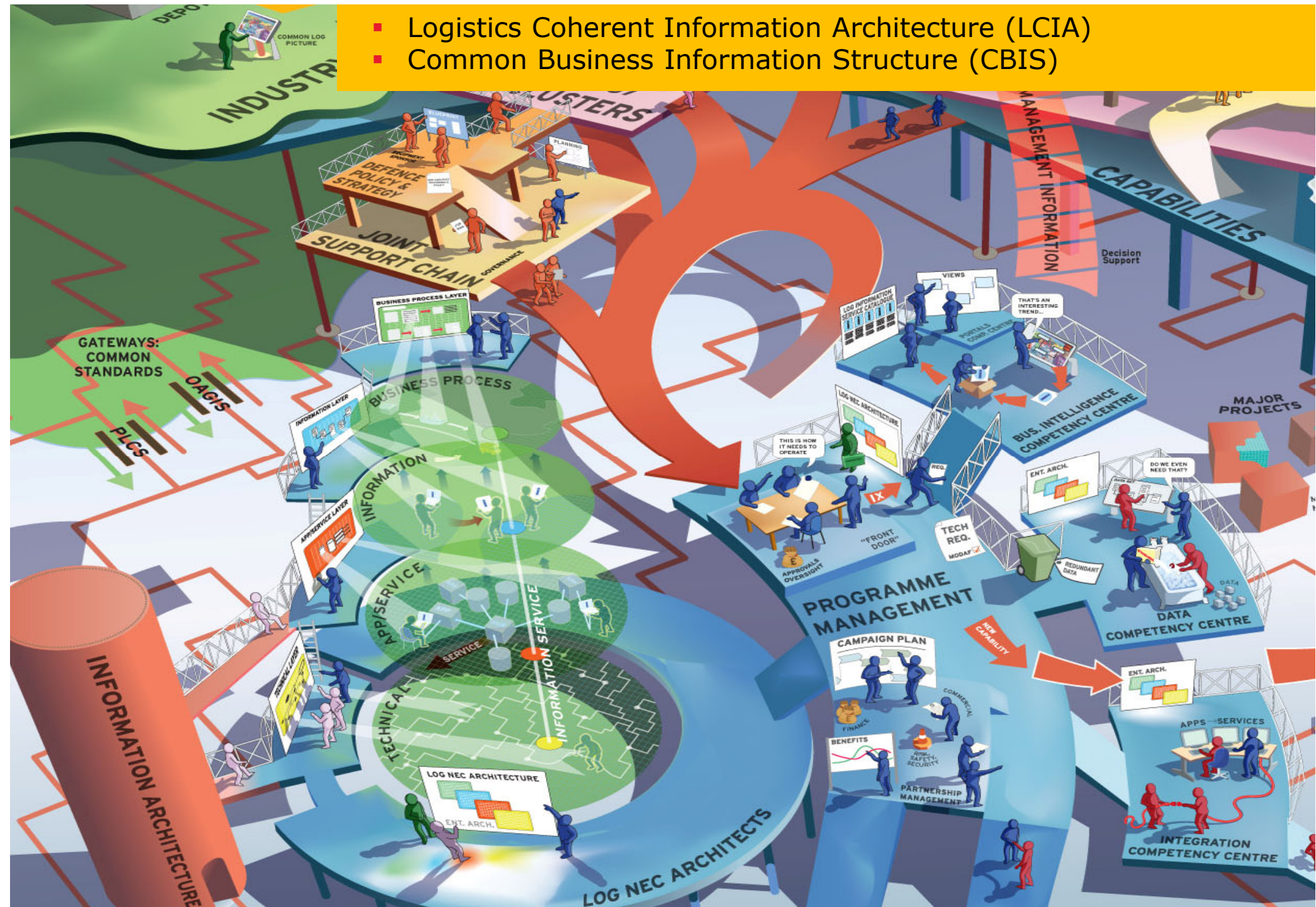
Customer Wait Time



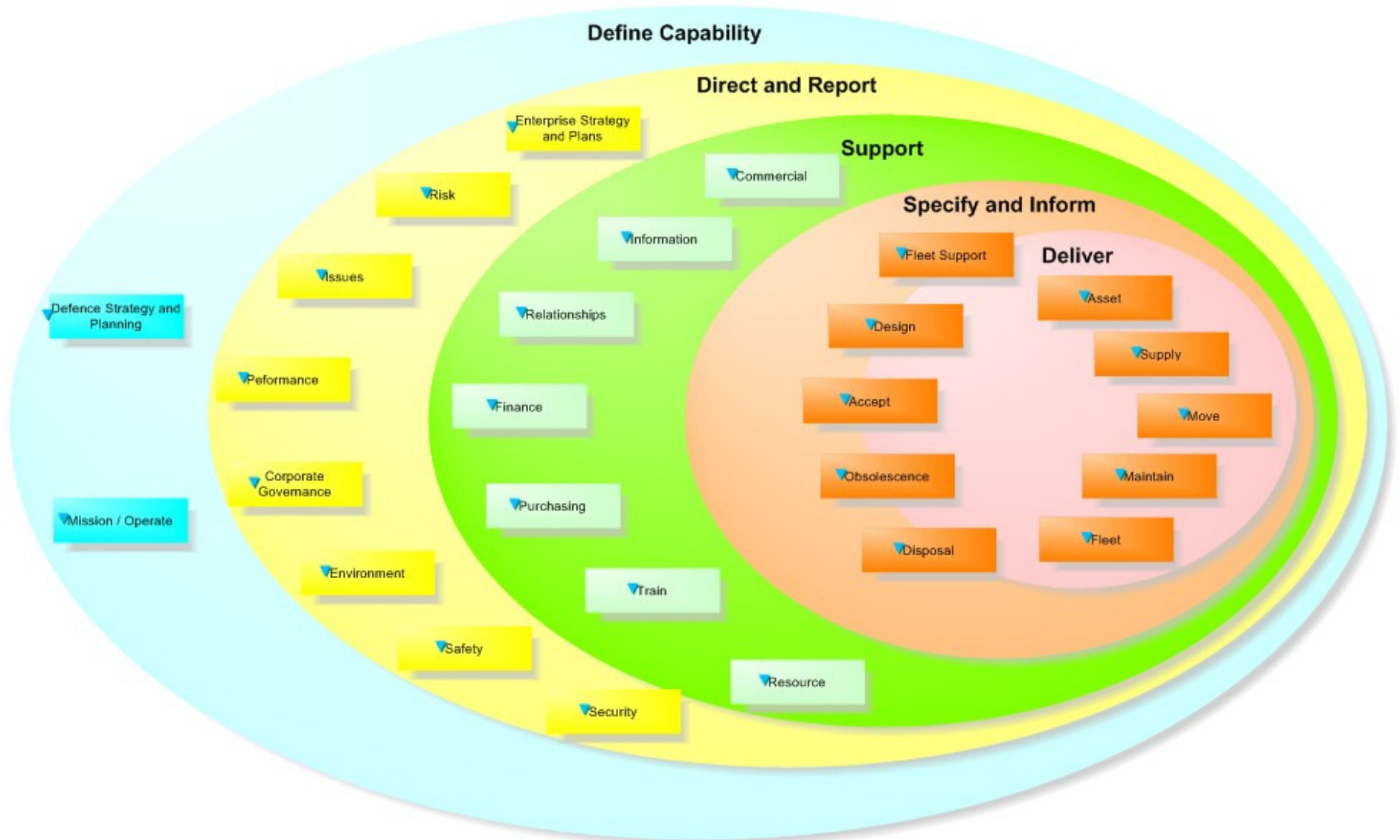
D States



- Logistics Coherent Information Architecture (LCIA)
- Common Business Information Structure (CBIS)



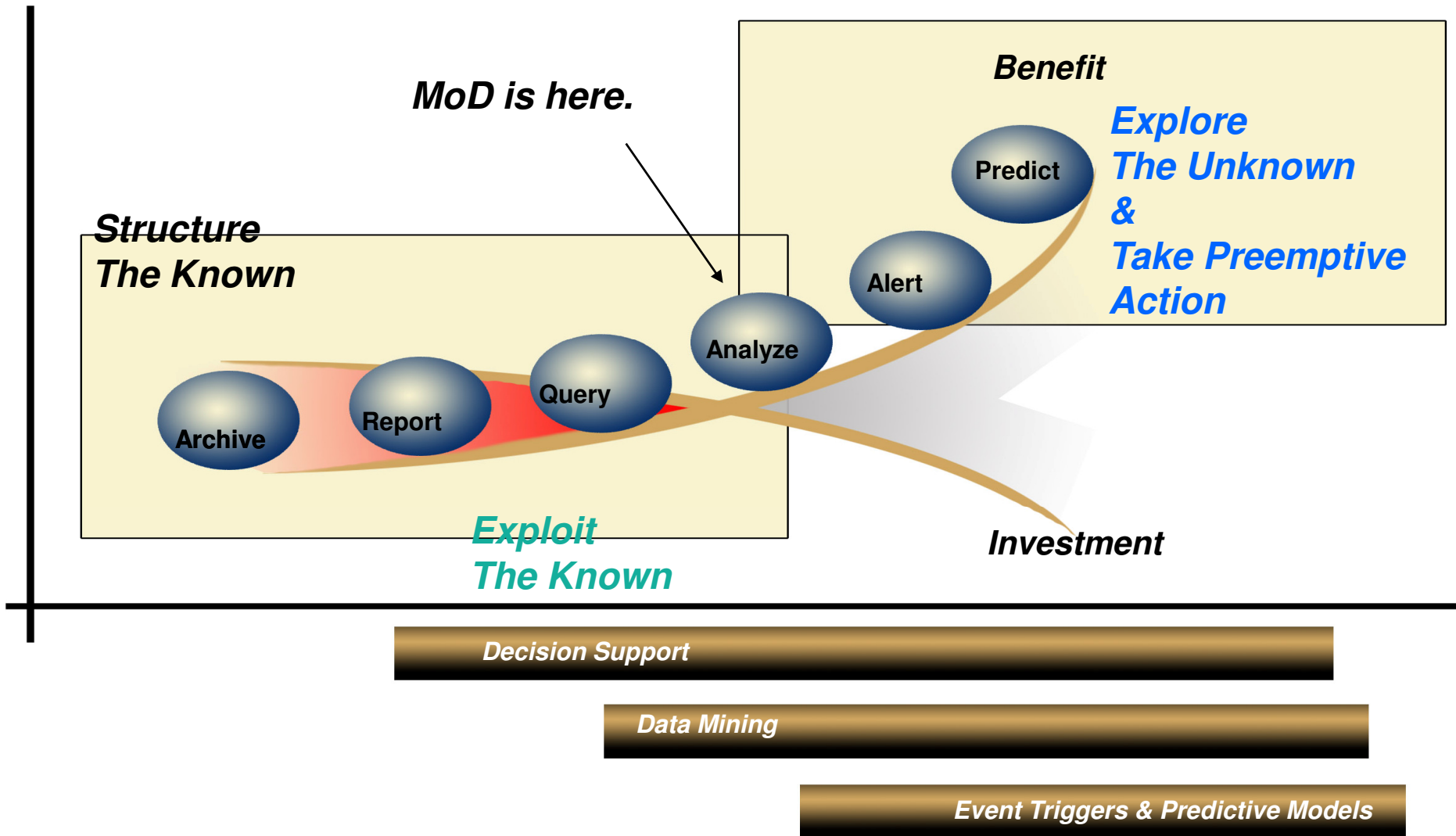
LCIA – Top Level Function



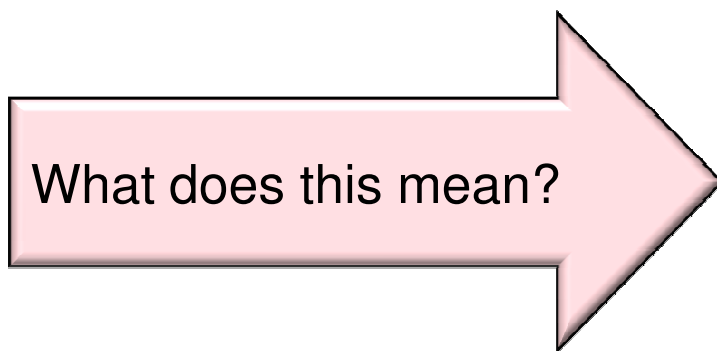
■ Process Overview



Benefits - Use of Capability



- By providing integrated information, you can see relationships between events recorded in independent systems.
- By providing historical information, you can spot trends and make comparisons.
- By providing one service for this information, your answers will be consistent with those provided by others.
- By providing a user-friendly interface, you can query and format your information to meet your particular business needs



- **Reduced costs:** maintenance hours, legacy IS systems retirement, strategic sourcing, contract performance management
- **Improved readiness:** predict, identify and take early corrective action
- **Single common (accurate) version of the truth:** shared from Commander to technician
- **Support for predictive logistics:** fix problems early, less reactive – from 80/20 collect/use data to 20/80.

- Establish a Board of Governors
- Business Transformation – not just an IT project
- Align Goals for each Task
- Establish business rules: standard vocabulary, authoritative sources, update rates, data usage
- Collaborate with suppliers
- Phase the work – 3 months increments

- Over the first 2 years, we focused primarily on building infrastructure, integrating data, and providing a generic analytical capability
- The next 2 years focused on increasing information presentation
- MoD's EDW delivers visibility of information across the Joint Support Chain
- Supporting numerous applications and organizations
- Reducing IT total cost of ownership
- Speeding delivery of capability
- Speeding delivery of information
- Cost and time to produce capability decreased over time
- Self-service capability is key
 - Users
 - Developers

Challenges & Lessons Learnt

- Data
- Process
- People
- Technology



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