

# "Supporting America's Defense"

*... Quality Data DNA for the DOD's Global Supply Chain*

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Commander  
Defense Logistics Information Service



**International Conference  
on Information Quality  
November 5-7, 2004**

# The DLA Enterprise

To provide best value logistics support to America's Armed Forces, in peace and war...  
around the clock, around the world



**FY 02 Sales/Services: \$21.5B**

**FY 03 Sales/Services: \$25B**

**FY 04 Sales/Services: \$28B**

- Land/Maritime/Missiles: \$ 2.8B
- Aviation: \$ 3.1B
- Troop Support: \$12.4B
- Energy: \$ 5.9B
- Distribution: \$ 2.5B
- Other: \$ 1.3B

- ~95% of Services' repair parts
- 100% of Services' subsistence, fuels, medical, clothing & textile, construction & barrier materiel

## Foreign Military Sales

- Sales: \$719M
- Shipments: 580K
- Supporting 124 Nations

## Scope of Business

- 45,000 Requisitions/Day
- 8,200 Contracts/Day
- #56 Fortune 500 – Above Prudential Financial
- #2 in Top 50 Distribution Warehouses
- 25 Distribution Depots
- 5.2 Million Items
- 24.7M Annual Receipts and Issues
- 1411 Weapon Systems Supported
- 144.0M Barrels Fuel Sold (FY 04)
- \$14.6B Annual Reutilizations/Disposals

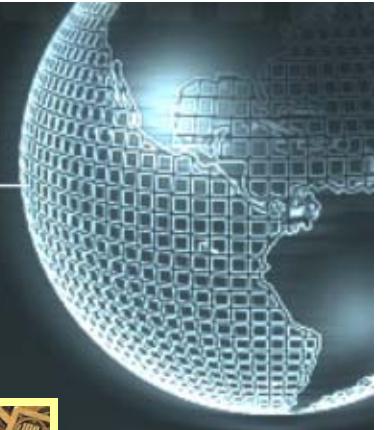
## People

- 21,490 Civilians
- 524 Active Duty Military
- 637 Reserve Military
- Located in 48 States/28 Countries

# Range and Reach of DLA



# It Matters to the Warfighter



Reduced but More Accessible Inventories



Better Quality



Faster, More Flexible and Reliable Service

Giving the Warfighters what they need



Lower Costs



Manager of Suppliers



# Defense Logistics Information Service (DLIS)



## FY04

- FED LOG Distribution: 445,765
- DOD EMALL Sales: \$188.7M
- New NSN Assignments: 97,925
- All Transactions Processed: 40.7M
- Participated in 49 Provisioning Conferences
  - 79,806 line items reviewed

## Resources

- 1,136 Civilians
- 5 Active Duty Military
- 307 Contractors
- FY05 Budget = \$155M
- 373 Employees Teleworking

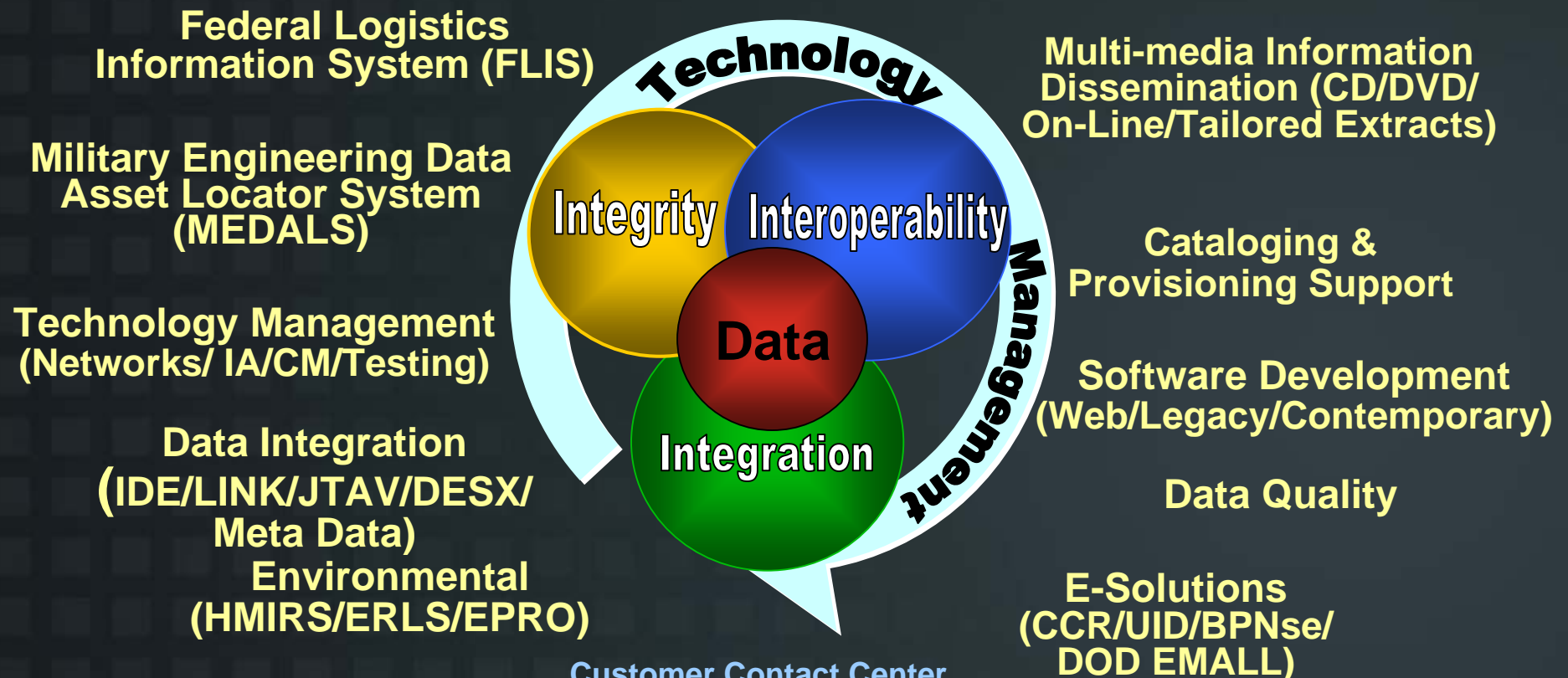
## Scope of Business

- 634K users of DLIS information products
- 67K subscribers to on-line systems
- 6,887 tailored data extracts provided containing over 10.2B records
- 6.7M active NSNs in FLIS/16M NATO
- 37.2M technical data assets indexed in MEDALS
- 51 critical applications/118 total applications
- 26 NATO and 25 “NCS sponsored” nations
- 53 Foreign Military cases/30 countries
- Battle Creek Customer Contact Center:
  - 22,000 monthly calls
  - Abandoned call rate = 2.2%
  - Average speed to answer 20 seconds
  - 87% calls answered < 30 seconds
  - Answer 50% of daily DLA enterprise calls

# Defense Logistics Information Service Mission

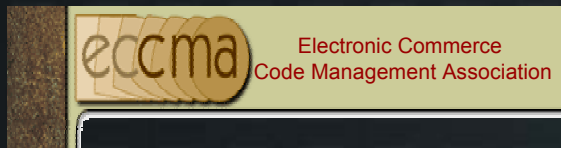


To provide interoperable, integrated, quality logistics data and enterprise IT solutions for joint warfighters, the Military Services, the Defense Department, other Federal agencies and international partners in order to optimize the effectiveness and efficiency of the DOD Supply Chain



Customer Contact Center  
DLIS-Support@dlis.dla.mil  
1-877-352-2255

# Integration . . . Using DOD Best Practice In Global e-Commerce



Members include



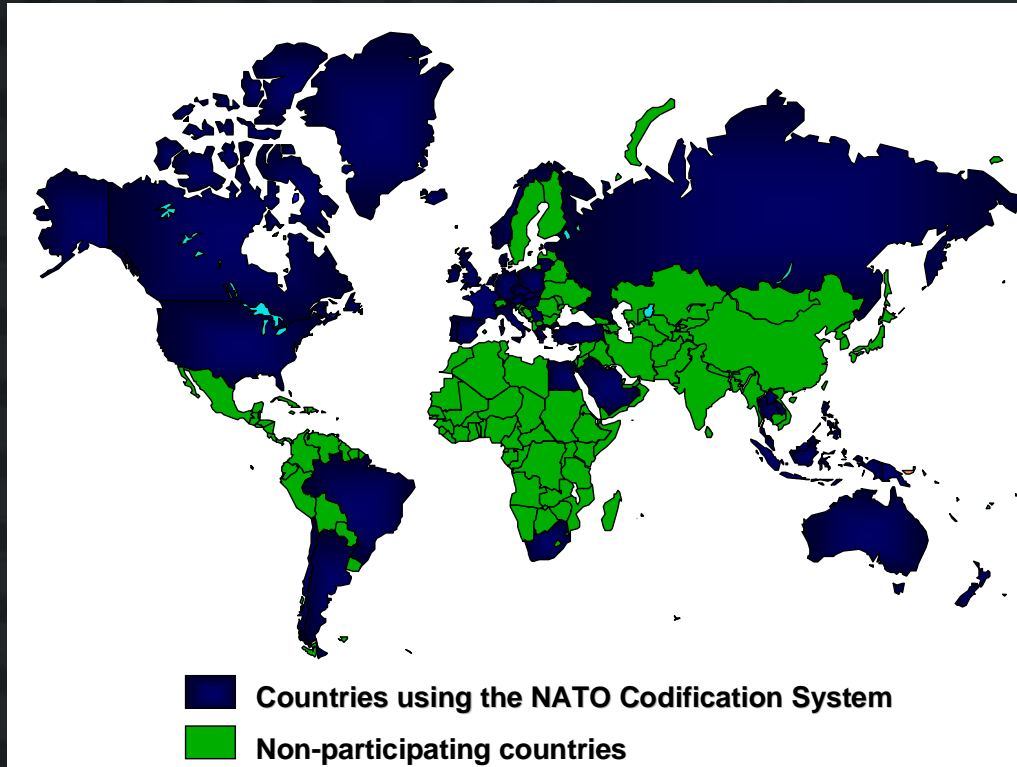
1. Codifies products, services & manufacturer processes
2. Standard taxonomy—naming and description conventions
3. Government and industry effort—supporting global economy . . . provides integration and interoperability
4. Maps to all classifications
5. Multilingual
6. Candidate for ISO Open Standard & PLIB



```

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# International Interoperability



- 51 user nations
- 16M NSNs
- 30M Reference Numbers
- 1M Manufacturers
- 22M User Registrations
- Multilingual pubs/tools

*~Common Logistics Language~*

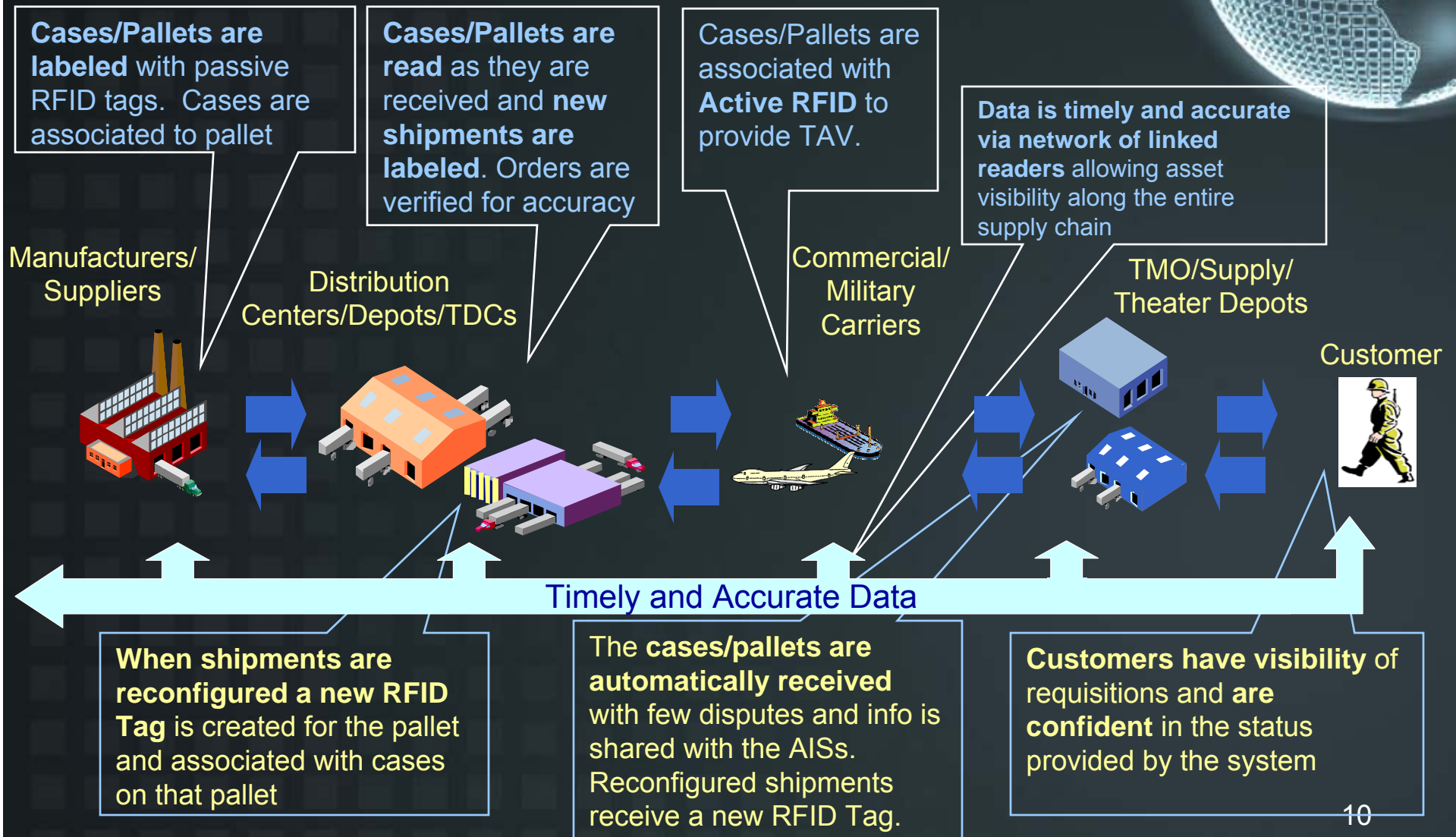


# Why we need RFID . . .



**Visibility is Critical to Effective Logistics Support**


# Enabling In-Transit Visibility (ITV) through RFID



# DOD Supply Chain

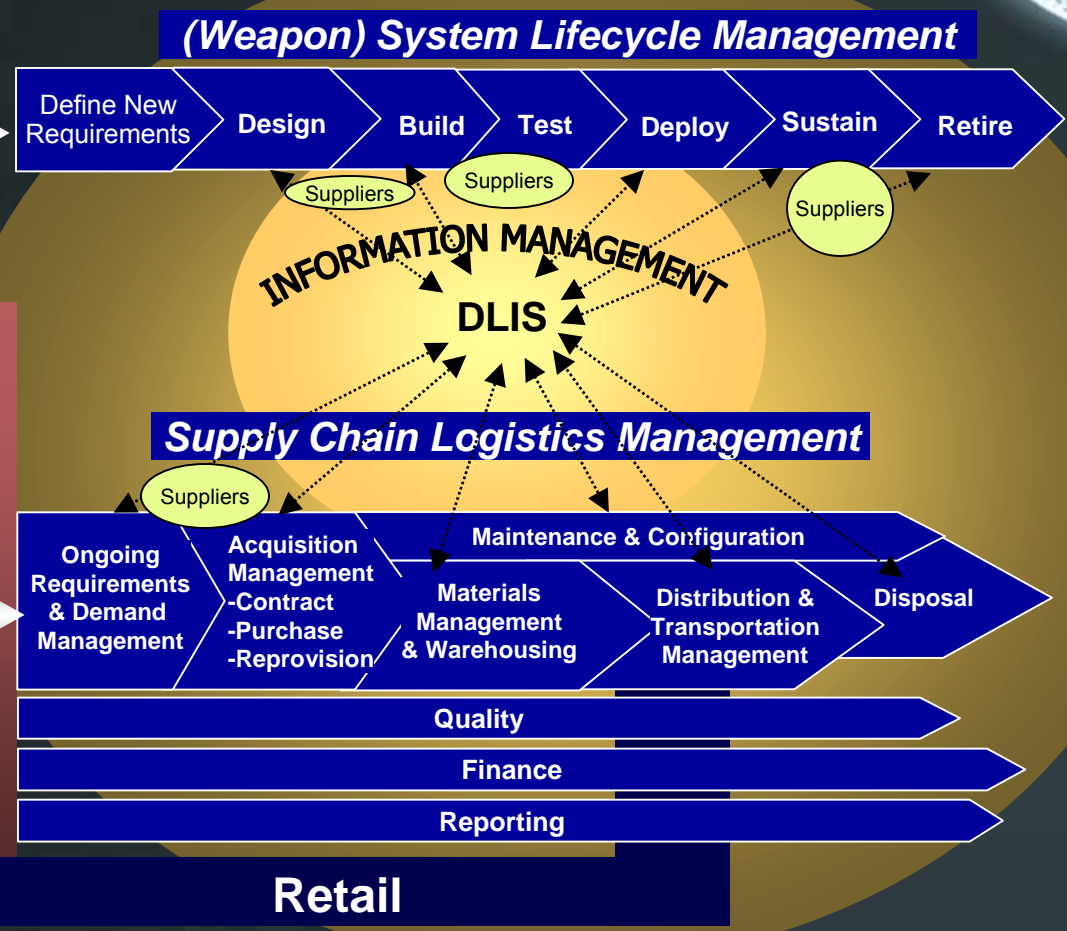
“Data is the DNA of materiel management”

- Acquisition
- Financial management
- Hazardous material
- Freight & packaging
- Maintenance
- Sustainability
- Disposal
- Demilitarization



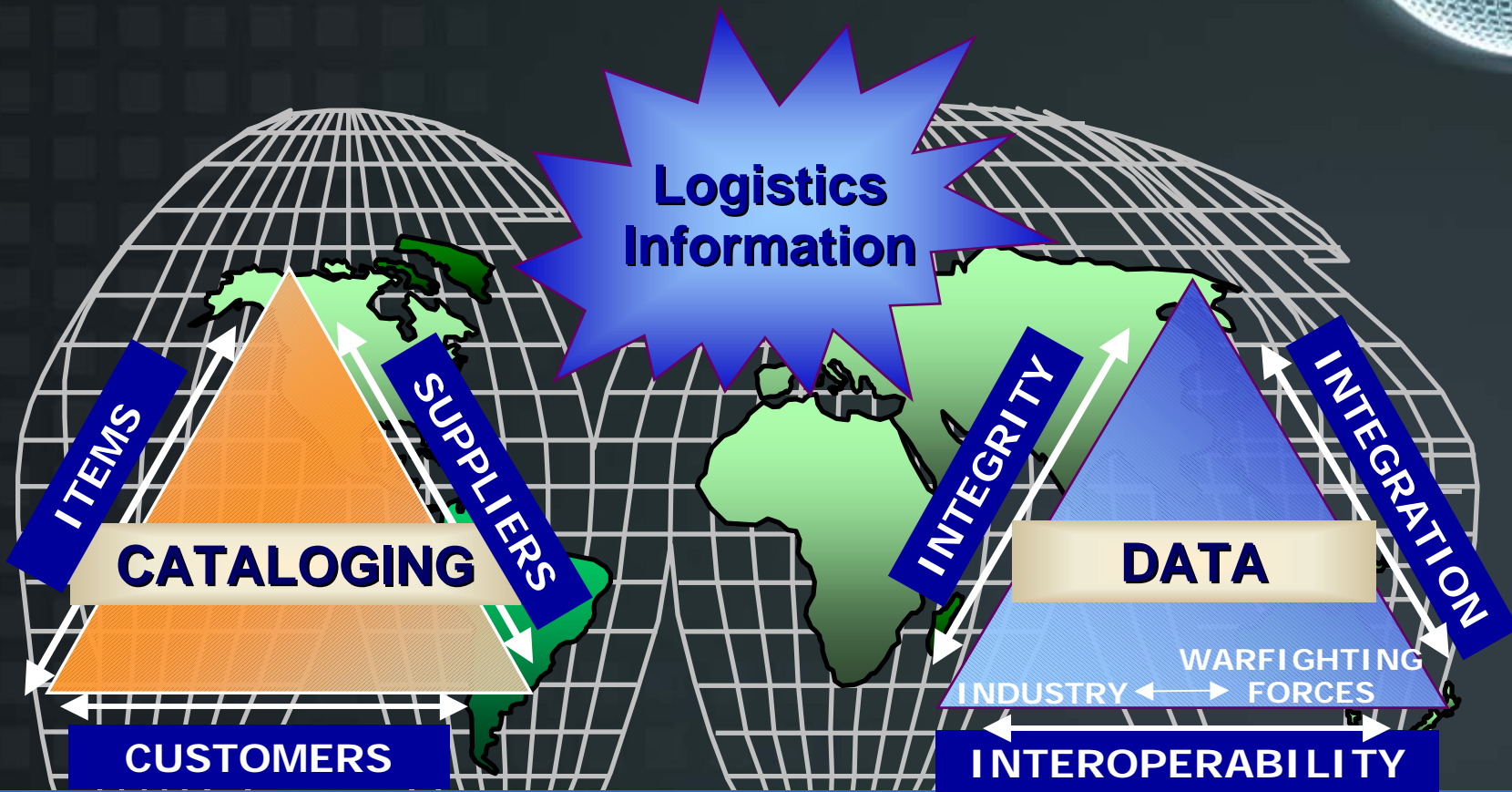
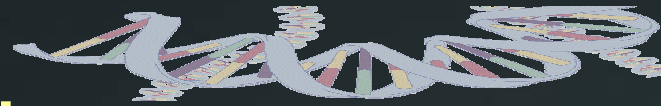
Who is the customer?  
 What is needed?  
 How many are needed?  
 Where is it needed?

- What meets the requirement?
- How many do we have and where? or, Where/ how can we obtain?
- How must it be handled?



... *Data is the DNA*<sup>11</sup>

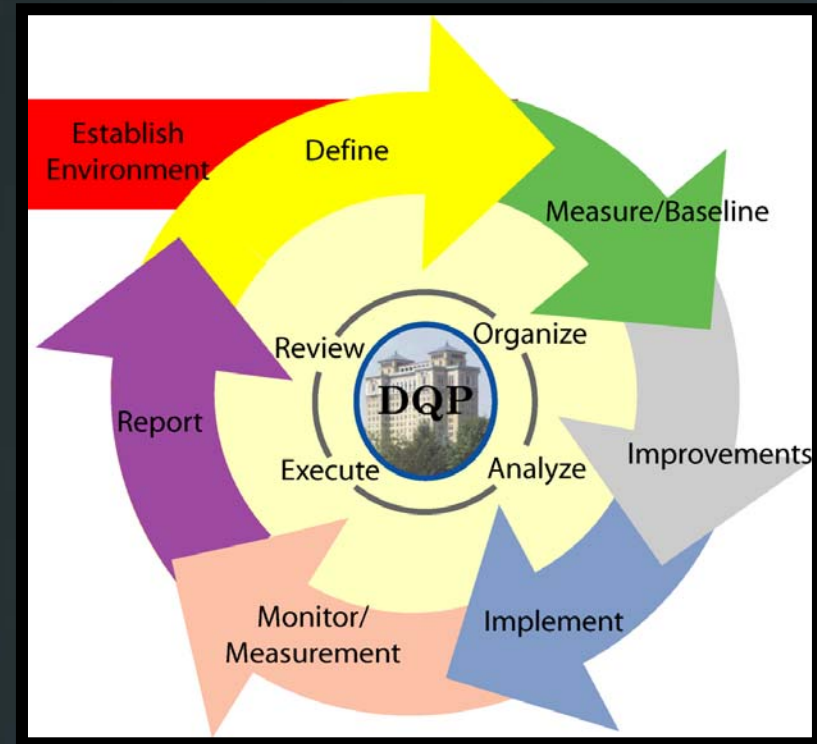
# Data Is The DNA...



# Data Integrity Process

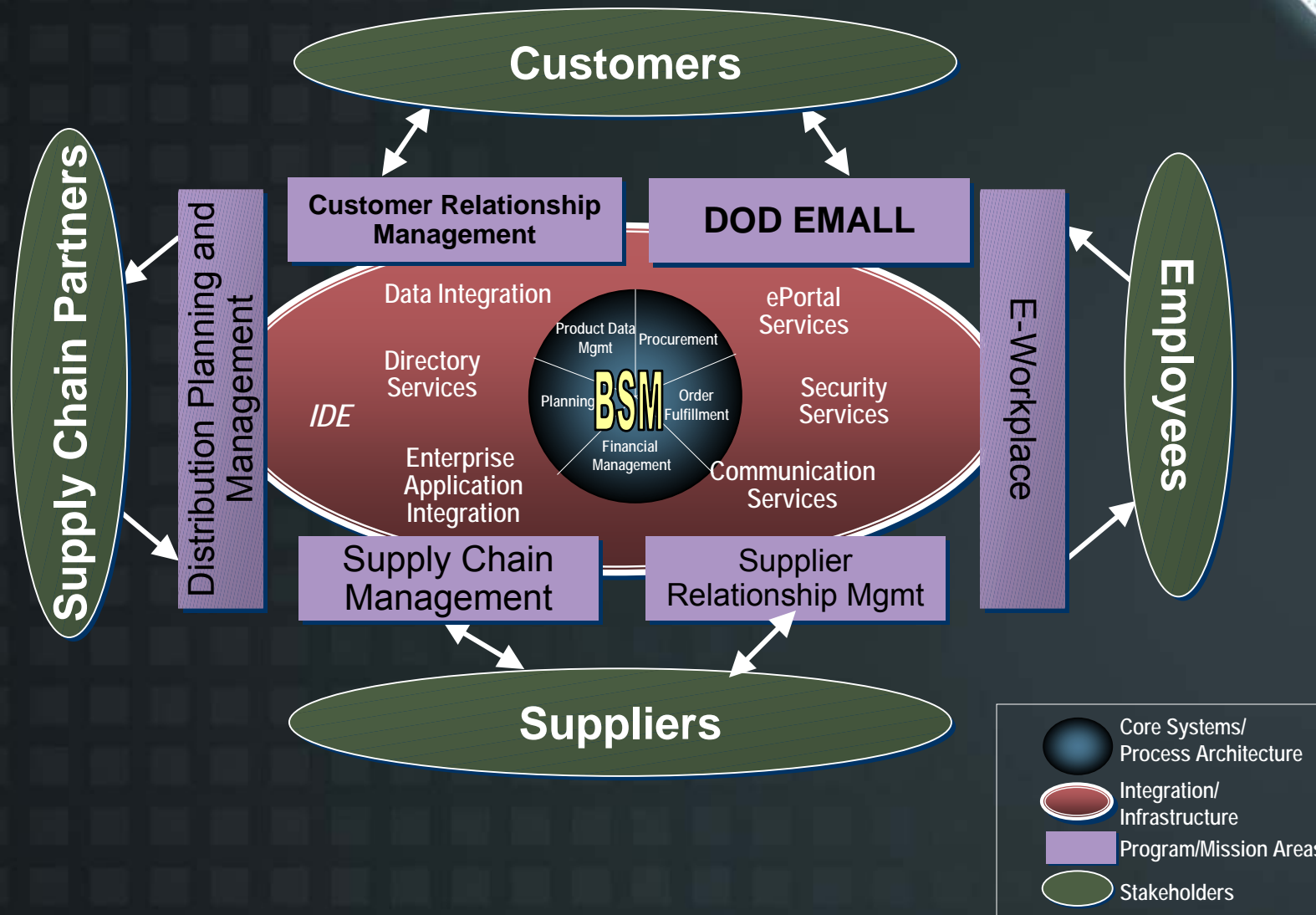
## DLIS Data Quality Plan

- Organization
  - Management priority
  - Data stewards
  - Corporate visibility
- Process
- Technology



***“You can’t manage what you can’t measure”***

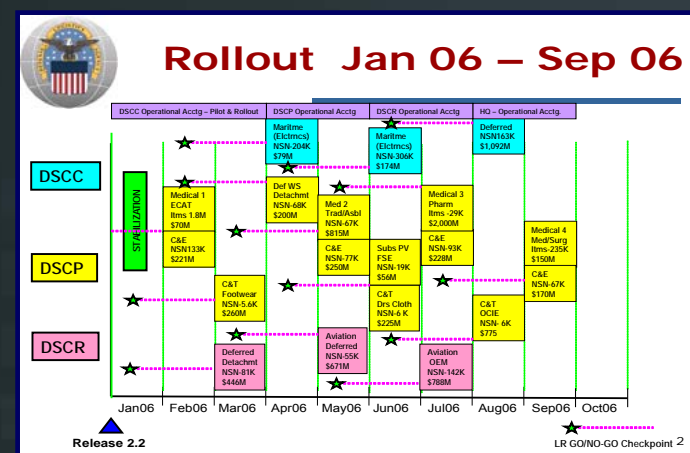
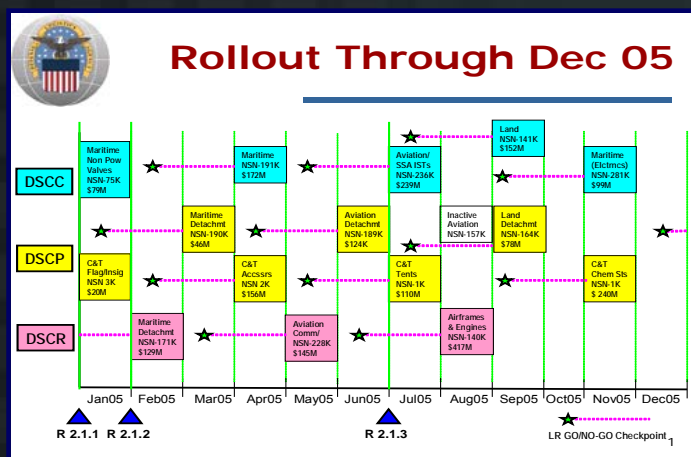
# DLA's Transformation



# BSM Material Master

## Tech Quality Data Cleansing Complexity

- 13 Business Rules / 3.6M supply item records
- Authoritative data elements: FLIS 25, BSM 23
- Complexity
  - Manual & automated reviews
  - Initiative reviews: 5 logistics disciplines
- 44 PAGE “GRAND MASTER PLAN” for Data Cleansing



# BSM Vendor Master



## Data Input

500 BUSINESS RULES  
500 EDITS

On-line  
D&B Parent  
Linkage

On-line  
DUNS  
Validation



3<sup>rd</sup> Party Data  
Validation/Certification

SBA

CAGE

USPS

Federal  
Reserve

**CCR**  
Central Contractor Registration



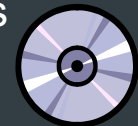
## Data Output

Public Web  
Search



XML Transactions

Daily  
Extracts



CD-ROM

CCR Tools

**BSM**

Business Systems  
Modernization



**NO ANNUAL UPDATE = INACTIVE**



# Architecting Data Quality.....

## Authoritative Data Sources



**ARMY  
LMP**



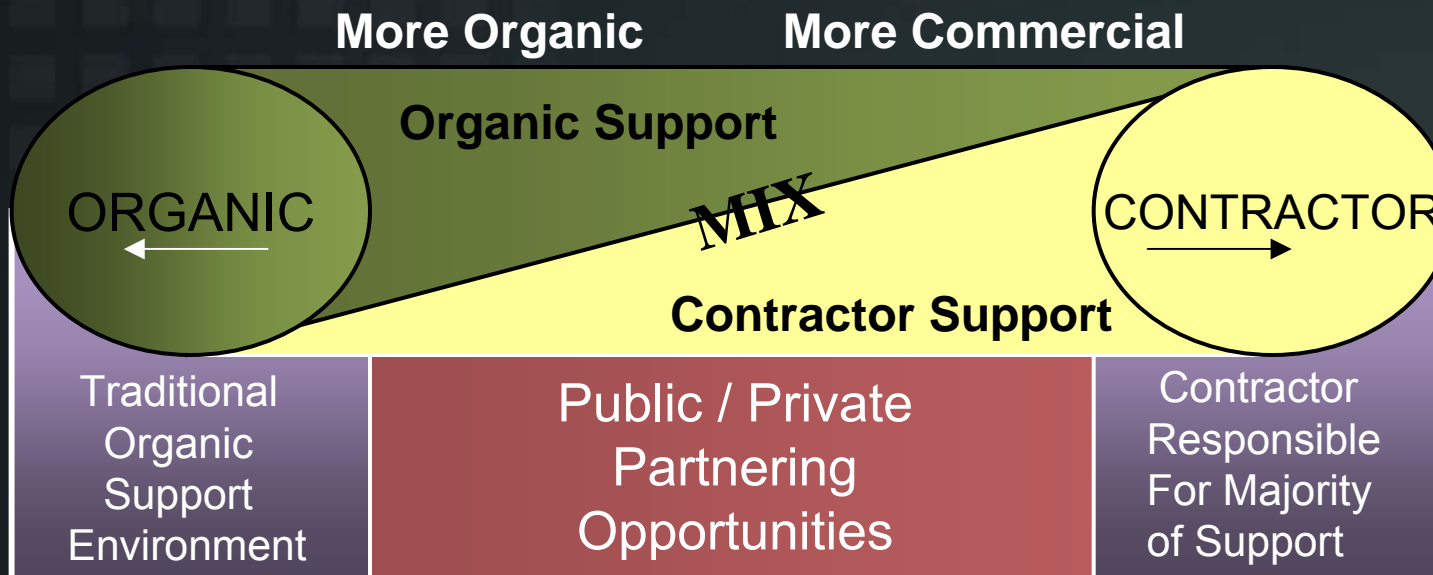
**BSM**

- Vendor master
- Material master
- Customer master
- More...



**NAVY**

# Performance Based Logistics



## Examples:

- Total System Support Responsibility
- Industry Partnering
- Service Level Agreements
- Performance-based Agile Logistics Support
- Prime Vendor Support
- Contractor Delivery System
- Performance Plans
- MOU with Warfighter

*One Size Does Not Fit All*

# Performance Based Logistics



- Contractor generated 19K National Stock Numbers meeting system edit requirements but did not reflect actual data
- Contained same:
  - Non-approved item name codes
  - Precious metals indicator codes
  - Unit of issues
  - Shelf-Life codes
- Cooperative clean-up initiative to reflect accurate data



# Contractor Logistics Support

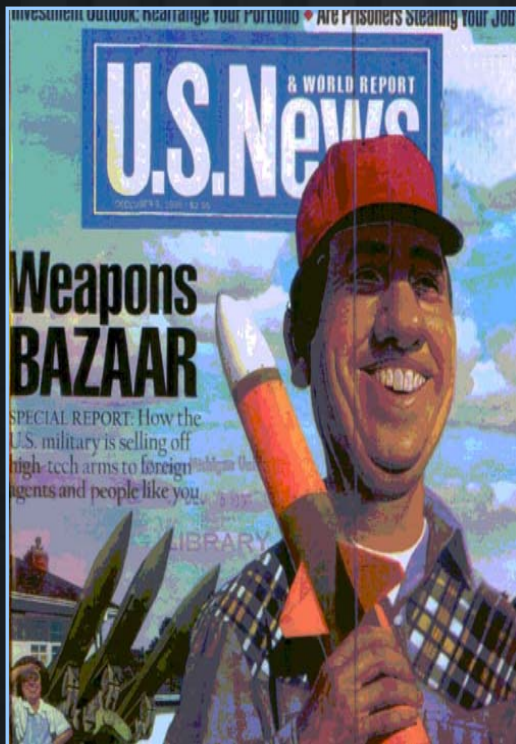


- Medium Tactical Vehicle Replacement
- Early-on involvement in the acquisition phase
  - Participate in:
    - Planning
    - Guidance
    - Provisioning Conferences
    - Lifecycle Working Groups
  - Obtain access to contractor technical data
  - Assign NSNs for all procurable items



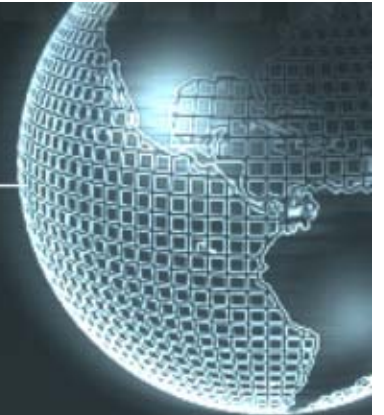
# Why Codes Matter . . .

## Demilitarization Code Review

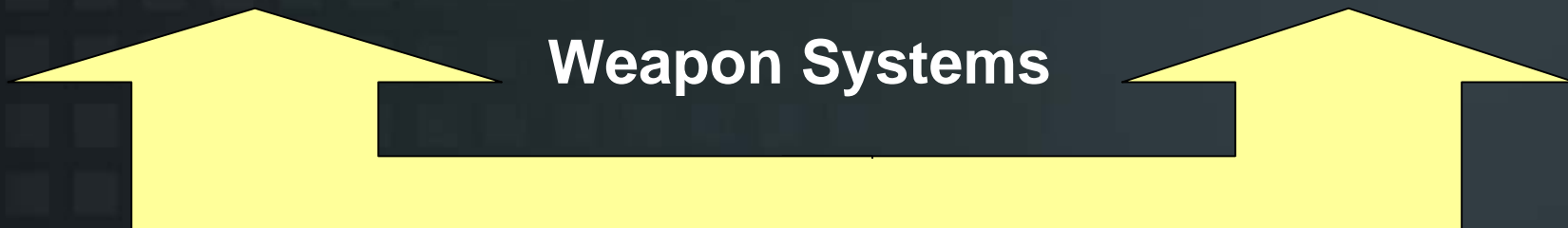
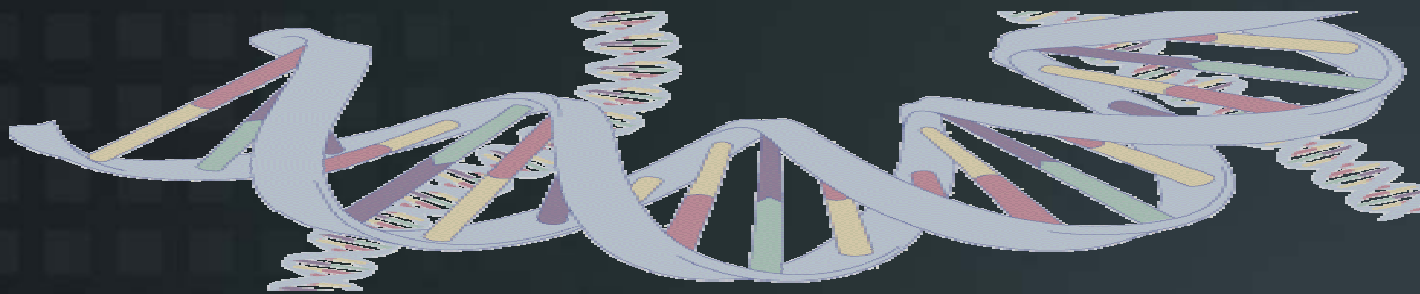


- One code – International implications
- Total population review = 14.7M
  - 2M reviewed and validated
  - 9% recommend code changes
- 100% New NSNs reviewed since 1999
  - 30% recommended code changes
- DOD Program Management Audit = 99.6% Accuracy

# DOD Supply Chain

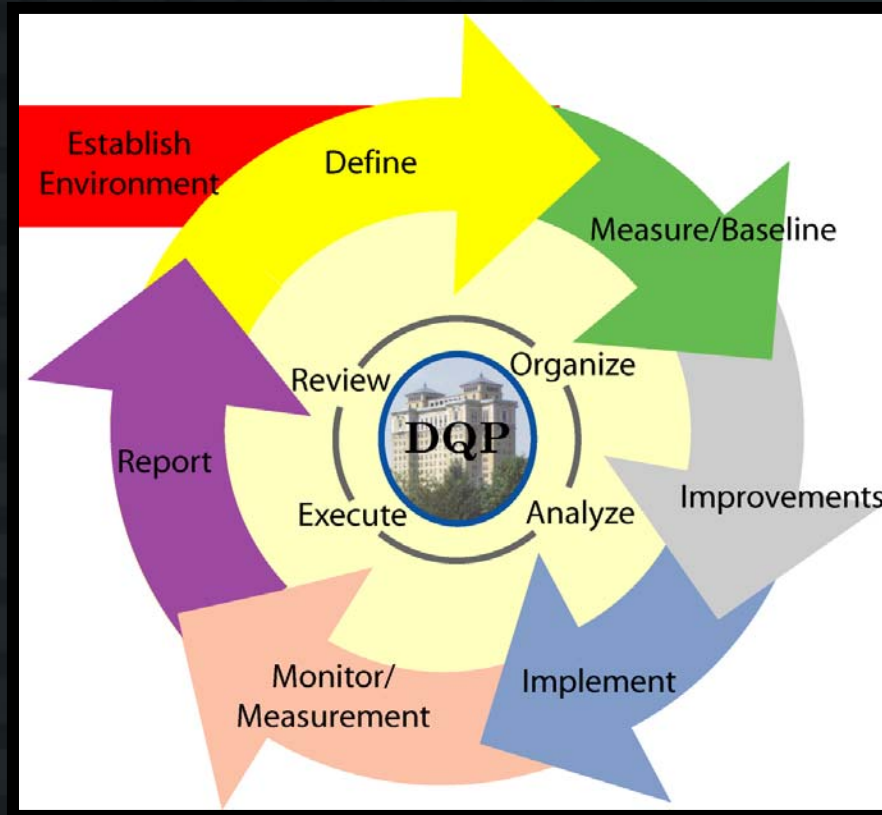


Identification → Procurement → Distribution → Sustainment → Disposal



... **Data is the DNA**

# Data Integrity Process

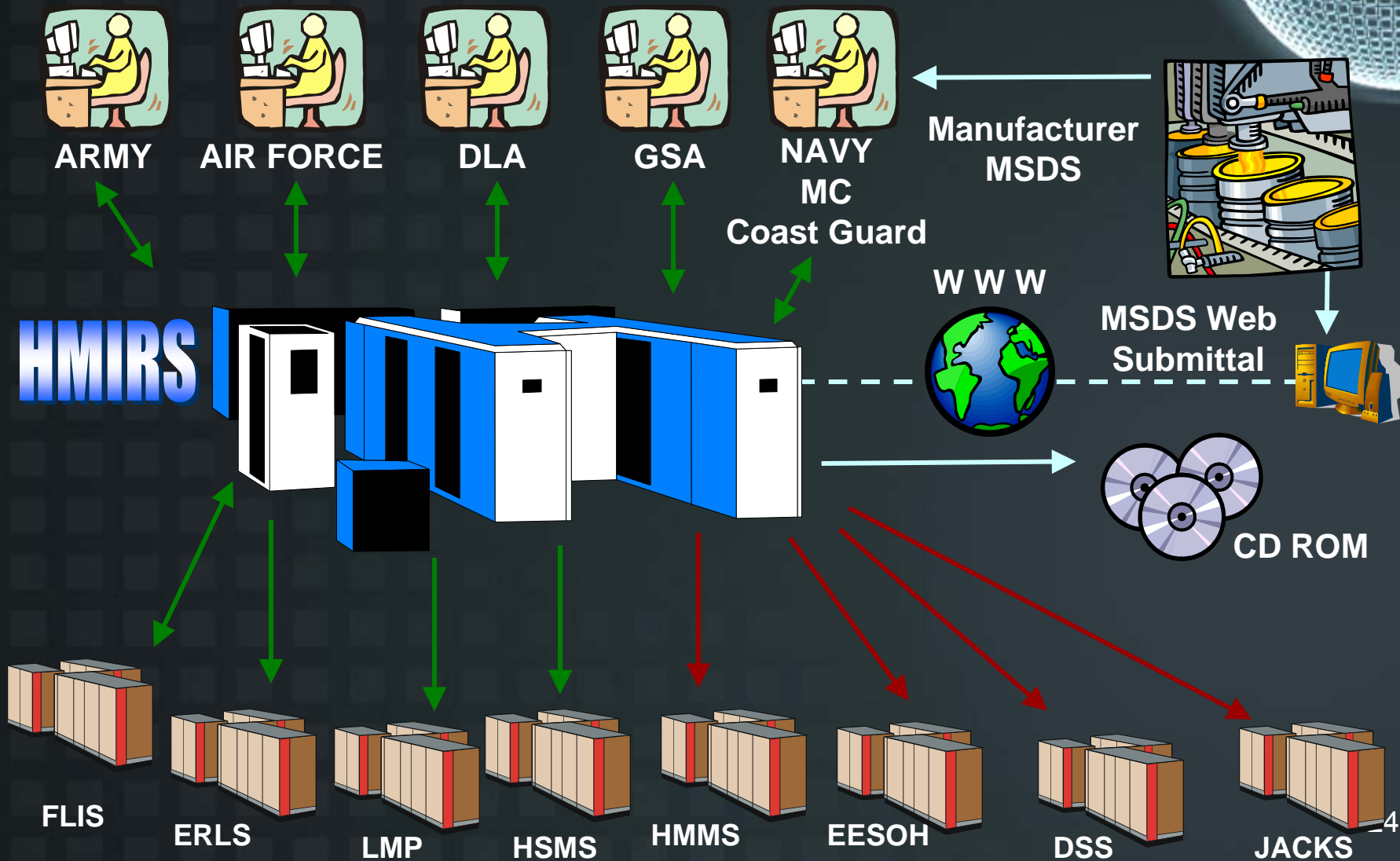


## DLIS Data Quality Plan

- Organization
  - Management priority
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  - Corporate visibility
- Process
- Technology

“You can’t manage what you can’t measure”

# Hazardous Materials Information Resource System (HMIRS) Roadmap





# HMIRS Status Update



Overall DLIS quality assessment of HMIRS  
**Process Step – Measure/Baseline**

A – Accuracy C – Consistency C – Currency C- Completeness

<u>DQ ISSUES</u>	<u>A</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>Over all</u>	<u>DQ ISSUES</u>	<u>A</u>	<u>C</u>	<u>C</u>	<u>C</u>	<u>Over all</u>
1. Missing HCC	%	%	%	%	%	6. Invalid CAGE	53%	53%	53%	N/A	53%
2. Missing NIINs	93.5%	N/A	N/A	93.5%	93.5%	7. Non-matching P/Ns	X	X	X	X	X
3. Invalid NIINs in HMIRS	99.8%	N/A	N/A	N/A	99.8%	8. <u>Zero-filled NIINs/LIINs</u>	99%	99%	N/A	N/A	99%
4. Invalid LIINs in HMIRS	%	%	%	%	%	9. <u>Duplicate company</u>	82%	100%	100%	100%	92.8%
5. Missing HMIC in FLIS	83%	N/A	N/A	83%	83%	10. Invalid FSC	%	%	%	%	%

## Grading Scale

- 90-100% A Green
- 80-89% B Yellow
- 70-79% C Orange
- 60-69% D Pink
- 59%-0% E Red

Not Established - White

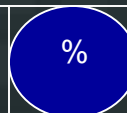
## Issues/Concerns:

Update processes  
 Increased Training  
 Authorities needed

## DCB Recommendations:

Brief the data owners  
 Create Process Flow Guides  
 Develop Customer Survey

**Baseline Grade**



PM/DS:  
 Participants:

Date Briefed:

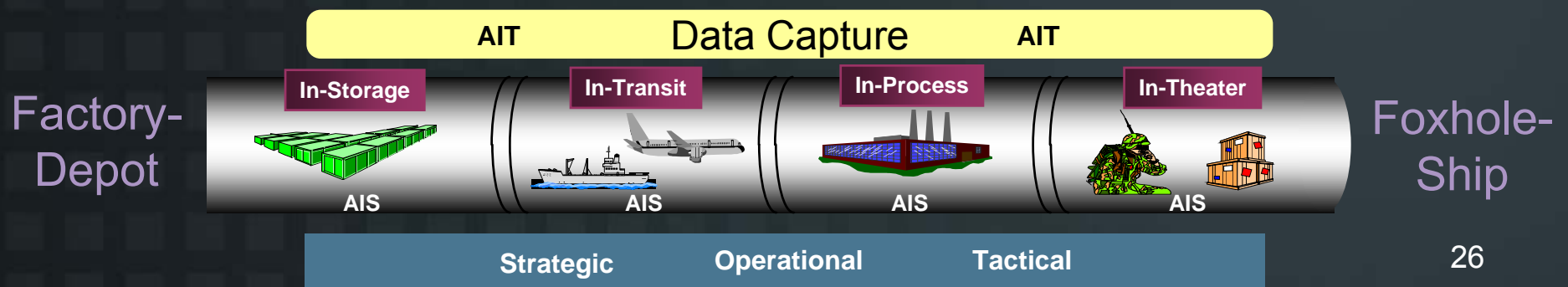
# Joint Total Asset Visibility

JTAV provides users with timely and accurate information on the location, movement, status, identity of units, personnel, equipment and supplies

- 29 data sources
  - Authoritative source issue
  - Automated Manifest System
- Data Evaluation
- Class of Supply
  - Using Army based code to apply to all Federal Supply Classes (FSCs)



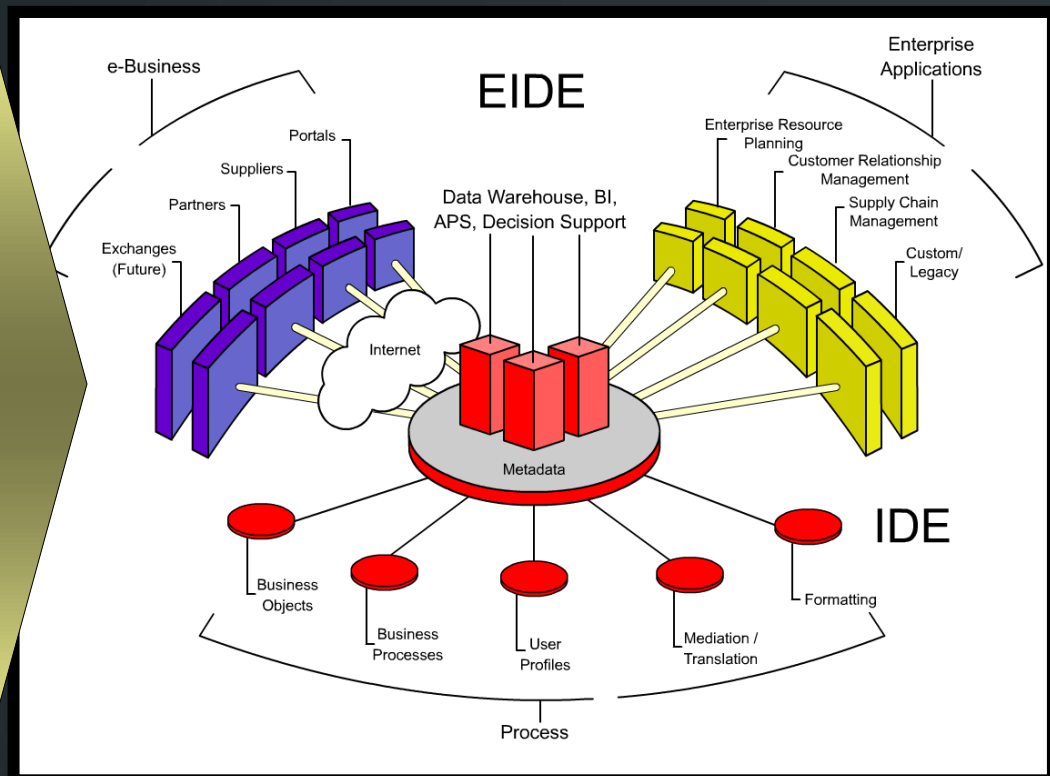
## Asset Pipeline



# Enterprise Integrated Data Environment (EIDE)

Provide an enhanced environment that enables the DOD Logistics Enterprise to execute practices, processes, applications and decision support tools to achieve logistics interoperability and allow for information exchange within and between internal and external DOD business partners.

- Non-system dependent transactions
- Consolidation and reuse of Interfaces
- Data integration/sharing
- Leverage Modernization Efforts
- Data Standards not Standard Data



# Challenges and Prospects



- Authoritative sources
- Empowerment to change data
- Metrics and scorecards
- Data Architecture
- Return on investment
- *Courage*



# Logistics Data Excellence

Once data is shared it becomes an enterprise asset. It does not solely belong to the owners of the data or the authoritative sources. It also belongs to the users of the data. This includes the crew chief on the flight line, the supply point that orders the item, and the procurement and financial personnel.



DQ Gold



# Questions?

