

# Deputy for Army Logistics Enterprise Integration

## ESOH & Single Army Logistics Enterprise (SALE)



**March 06**

**Mr. Richard Lovell**

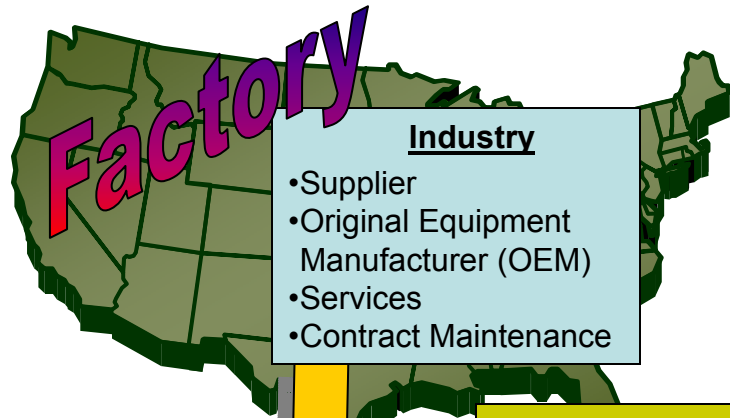
**Army Materiel Command, ESOH Logistics  
Enterprise Integration**

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Executive Director of EHS Practices  
Main Sail LLC**



**Integrated Logistics Enterprise = Common Operating Picture**

# Single Army Logistics Enterprise (SALE)



- Industry**
- Supplier
  - Original Equipment Manufacturer (OEM)
  - Services
  - Contract Maintenance

**Our Mission**

**“Develop and implement the logistics enterprise architecture with necessary Service and Joint Interoperability”**

*(Army Campaign Plan, Obj 8-4)*

**What SALE Provides**

- Management of different programs towards common objectives
- Common picture throughout the logistics community
- Confidence through accuracy, reliability, connectivity
- Complete and accurate End-to-End (E2E) asset & in-transit visibility

**Three Major ERP Projects**

- National Level
  - Logistics Modernization Program (LMP)
- Tactical Level
  - Global Combat Support System Army (GCSS-Army)
- Product Lifecycle Management Plus (PLM+)
  - Programmatic and Technical integration
  - Master Data and Weapon System Technical data management

**See and use the same data from tactical units to sustaining base**

**Modernizing Business Systems that are providing critical Warfighter support**

**Phased Implementation Strategy -- Building on activities of GCSS-Army & LMP**

Enterprise Resource Planning (ERP) is an Integrated solution, with a shared centralized database, and one point of entry

ESOH is a standard capability within SAP – used effectively by commercial Industry



Direct Support



- Tactical**
- Fix
  - Fuel
  - Arm
  - Move
  - Sustain



# Single Army Logistics Enterprise (SALE)

**"Factory"**



Functionality Supporting ESOH is being planned for incorporation into SALE Architecture

**Army Logistics Enterprise**

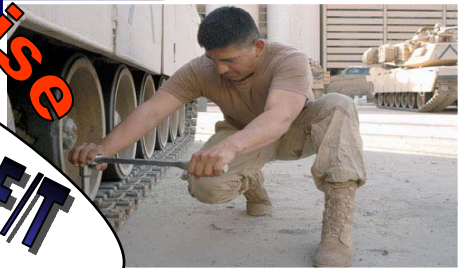
-End to End Business View -

Defense Finance & Accounting Service (DFAS)

Defense Automatic Addressing System Center (DAASC)

Personnel Systems

External Interfaces



Master Data Management

**PLM+**

Information Exchange

**GCSS-Army F/T**

Original Equipment Manufacturer (OEM)

Defense Logistics Agency (DLA)

**TRANSCOM**

External Interfaces



**"Foxhole"**

- LMP: Logistics Modernization Program
- GCSS-Army F/T: Global Combat Support System Army Field/Tactical
- PLM+: GCSS-Army (Product Life-cycle Management Plus (PLM+))



# Phased Operational Implementation How We Get There...

FY 04-07

## SALE Increment 1 Modernization

- LMP
- STAMIS Evolutionary Changes
  - SARSS-RFID
  - ULLS-A – SCP 6
  - PBUSE
  - SAMS-E
  - HSMS
  - HMMS
  - HTSCM

**Capability now!**

**Incorporation of ESOH is planned to Commence during Increment 1**

FY 07-10

## SALE Increment 2 Modernization

- GCSS-Army (F/T)
- GCSS-Army PLM+
  - Optimized Messaging (XI)
  - Limited Master Data Mgmt (MDM)
- Installation Fixed base (IFB)

**Reduced Log footprint**

**Working with DLA, TRANSCOM & other agencies**

**GCSS-Army Acquisition Increment I**

**Accomplished through GCSS-Army Program's 2-Increment Acquisition Schedule**

FY 10-12

## SALE Increment 3 Integration

- Integrated E2E Business Processes
- Product Lifecycle Management
- Common SAP Enterprise

**Common View**

**GCSS-Army Acquisition Increment II**

FY 10→

## SALE Increment 4 Enterprise Sustainment/Enhancement

- Alignment of other initiatives
- SAP software upgrades

**Realization of Strategic Objectives**

- Standard Army Management Information System (STAMIS)
- Unit Level Logistics System – Aviation (ULLS-A)
- System Change Package (SCP)
- Property Book Unit Supply Enhance System (PBUSE)
- Standard Army Maintenance System – Enhanced (SAMS-E)
- Logistics Modernization Program (LMP)
- Global Combat Support System Army (Field/Tactical) (GCSS-Army (F/T))
- Product Lifecycle Management Plus (PLM+)
- End-to-End (E2E)



# Product Lifecycle Management, Edition 2001



Life-cycle Data Management	Document Management	Product Structure Management	Integration to Office, CAD, SCADA & GIS	Change & Configuration Management	
Asset Life-Cycle Management	Technical Assets Management	Preventive Maintenance	Business Partner Collaboration	Work Clearance Management	Work Order Cycle
Program & Project Management	Strategic Program Management		Life-Cycle Profitability Analysis	Project Management	
Life-Cycle Collaboration	Collaborative Engineering		Collaborative Project Management	PLM Integration	
Quality Management	Quality Engineering	Quality Control	Quality Improvement	Quality Collaboration	
Environment Health & Safety	Product Safety	Dangerous Goods Management	Industrial Hygiene & Safety	Waste Management	Occupational Health



# Capturing the Synergy across the Services

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## ★ Army-Navy MOA 24May04

- ▶ Assist with in identifying and pursuing common solutions utilizing an enterprise architecture and Best Business Practices
- ▶ Coordinate on a commercial data content provider
- ▶ Establish a joint service group in managing DoD EHS enterprise policies and procedures

## ★ Benefits of MOA

- ▶ Identified 10,000 NSN's and associated manufacturer hazard product data
  - Reduces overall resource requirements for data cleansing and harmonization efforts
  - Expedites availability of data to deployed units
  - Ability to easily share data
- ▶ Established common data content and format
  - Establishes a Real Time authoritative source for Regulatory data
    - Global Regulatory Lists to included Joint Service/Host Nation agreements
  - Phrase Terminology
- ▶ Supports DoD HAZMAT BPR



# Architecture in Use

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- ★ DoD BEI establishes common operating platform for HAZMAT process controls and information management
  - ▶ Data compatibility, work processes, model definition
- ★ Through DoD Business Enterprise Architecture and DoD policy, BEI enhances integration and interoperability of HAZMAT management solutions



# DATA GAPS

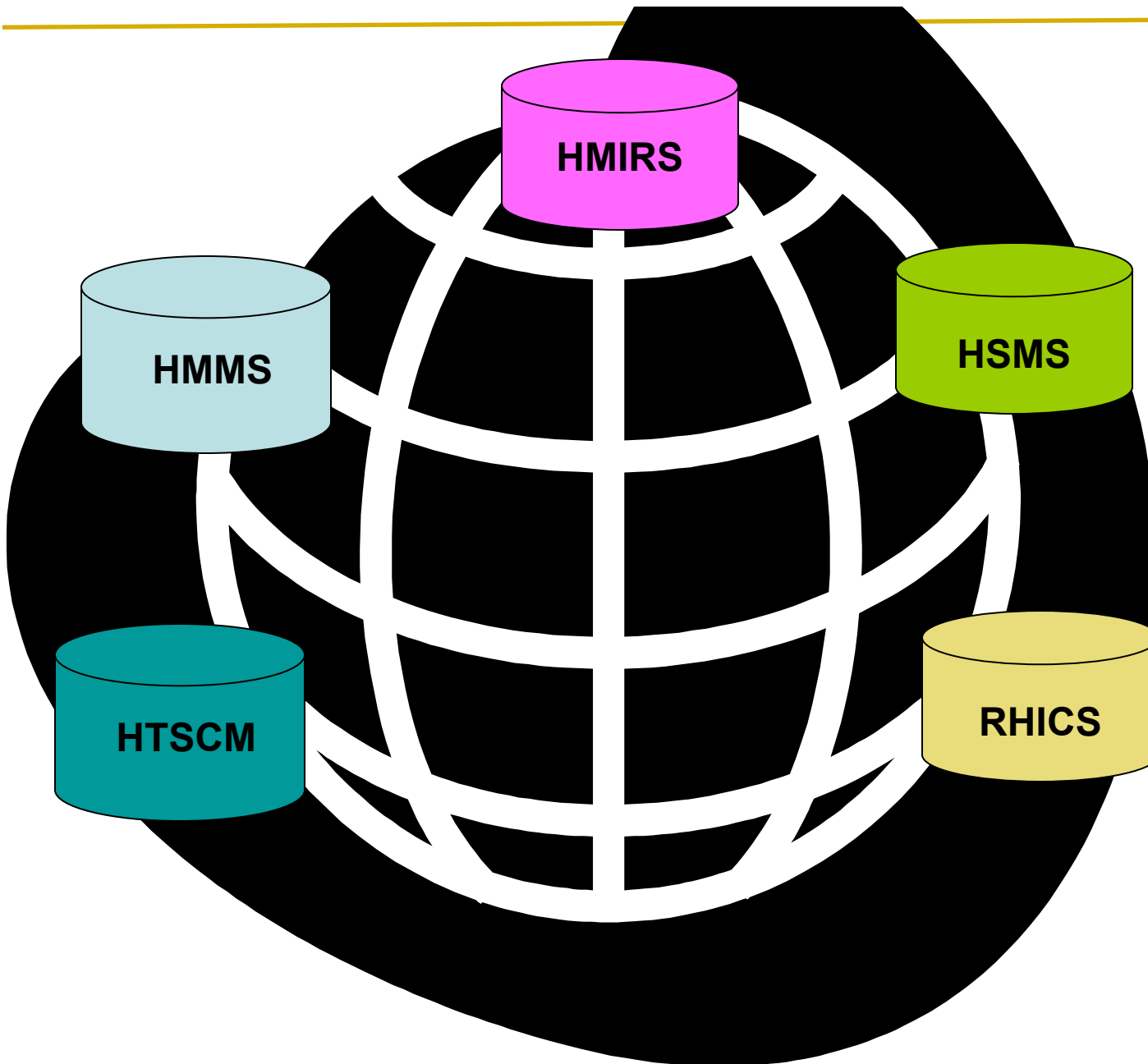


- ★ Common Terminology: DoD lacks a common language for communicating hazardous materials information
- ★ Core Data: DoD does not have joint, core data to support lifecycle hazardous materials management across the Department.
- ★ Authoritative Data: DoD lacks a reliable, central, authoritative source for product hazard data.
- ★ Redundant and Incompatible Systems: Current IT systems are not effectively interfaced, integrated or interoperable.
- ★ ESOH Controls: Not consistently developed in partnership with the process owner, or with a holistic approach as to how the data will be used or how the data is expected to be used
- ★ Product and Data linkage: Current supply and hazardous materials management processes do not provide the unique linkage required to tie hazardous products and their associated hazard data



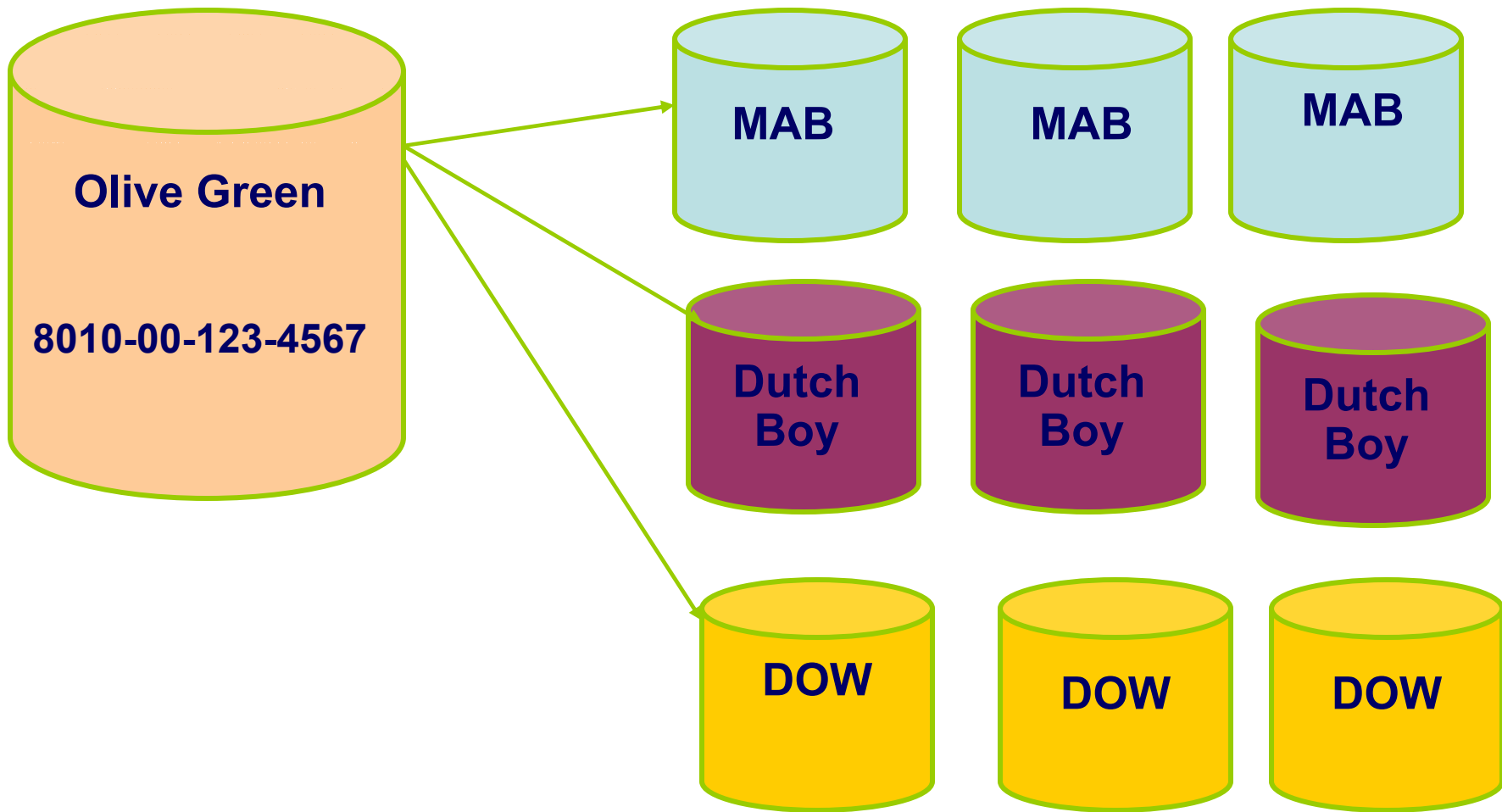


# Current HAZMAT Landscape



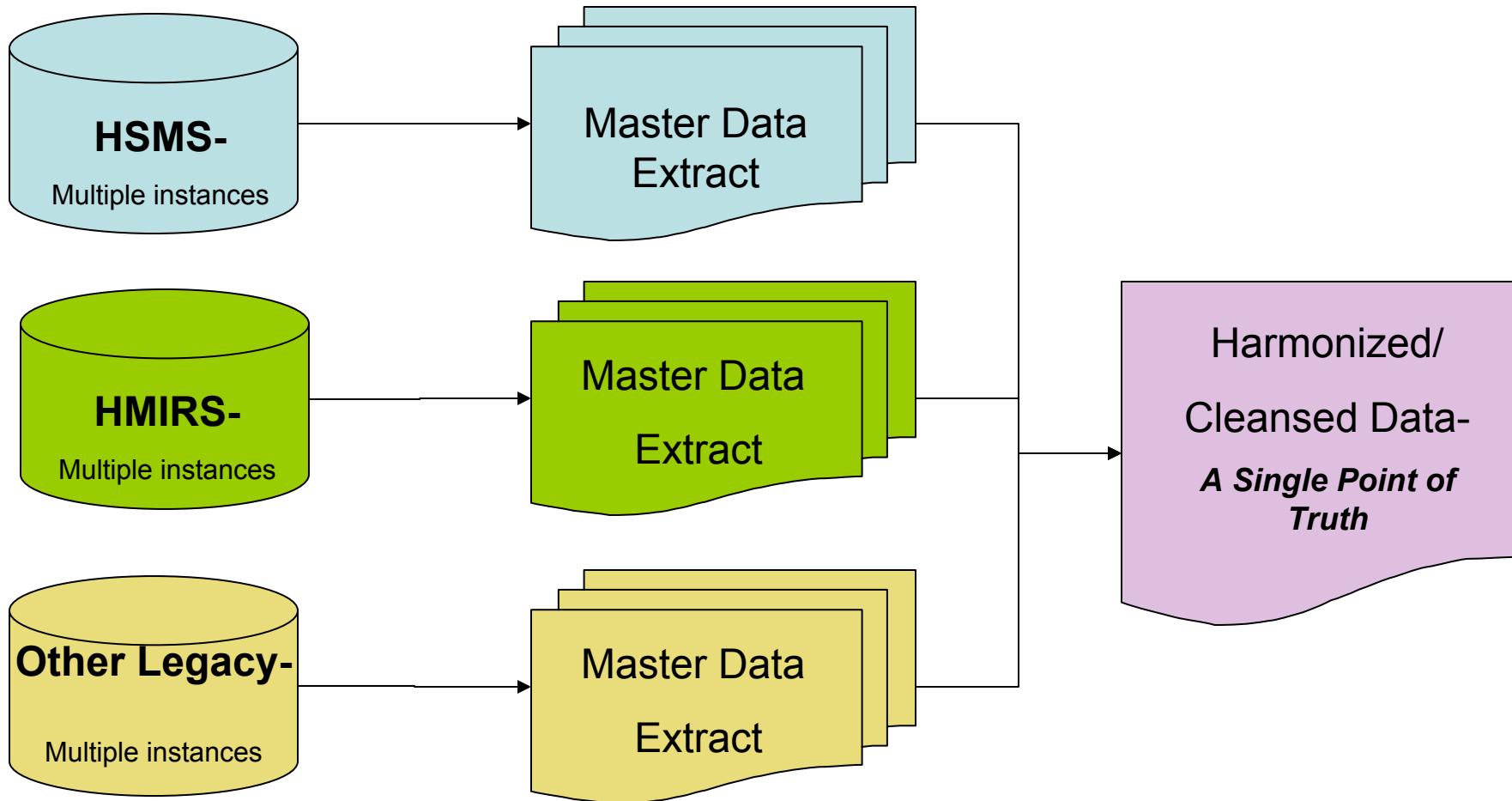


# Redundant Master Data Records



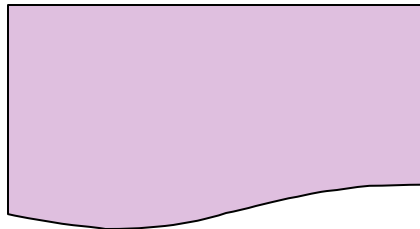


# Master Data Harmonization





# Challenges of Data Harmonization



## ★ Redundant records

- ▶ “Bob’s Red Paint”          “Paint, Red Bob’s”
- ▶ Multiple locally assigned Stock (Serial) Numbers for the same item
  - FT Hood-MAB Green Latex          8010FH123456
  - FT Story-MAB Green Latex          8010FS987654
- ▶ No Authoritative record
  - Which record will be considered as the authoritative source?

## ★ No Standardized Data Format and Entry

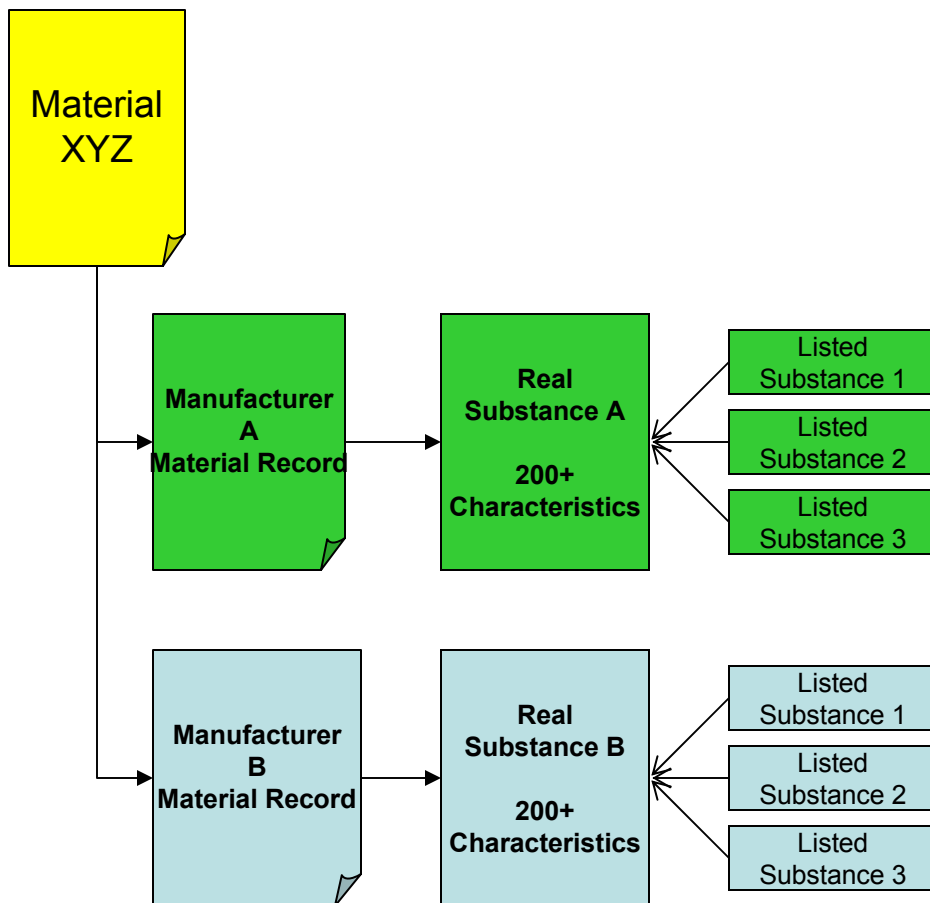
- ▶ Text vs Numeric
  - 32F/0C                                  0C/32F                                  0/32                                  32/0

## ★ No Link to Regulatory Data

- ▶ Federal, State, Local, DoD (including Joint Service/Host Nation)

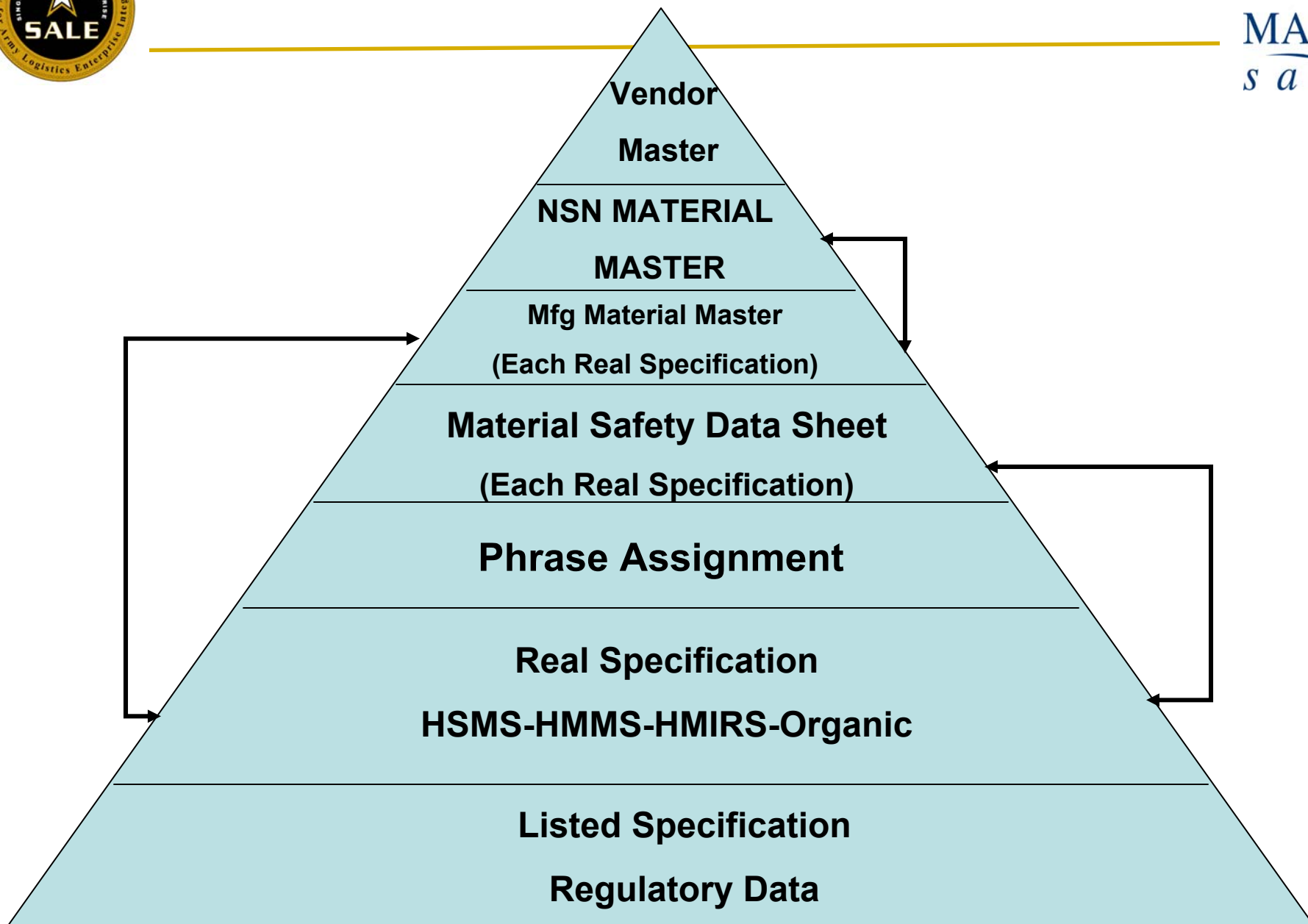


# Master Data Relationship



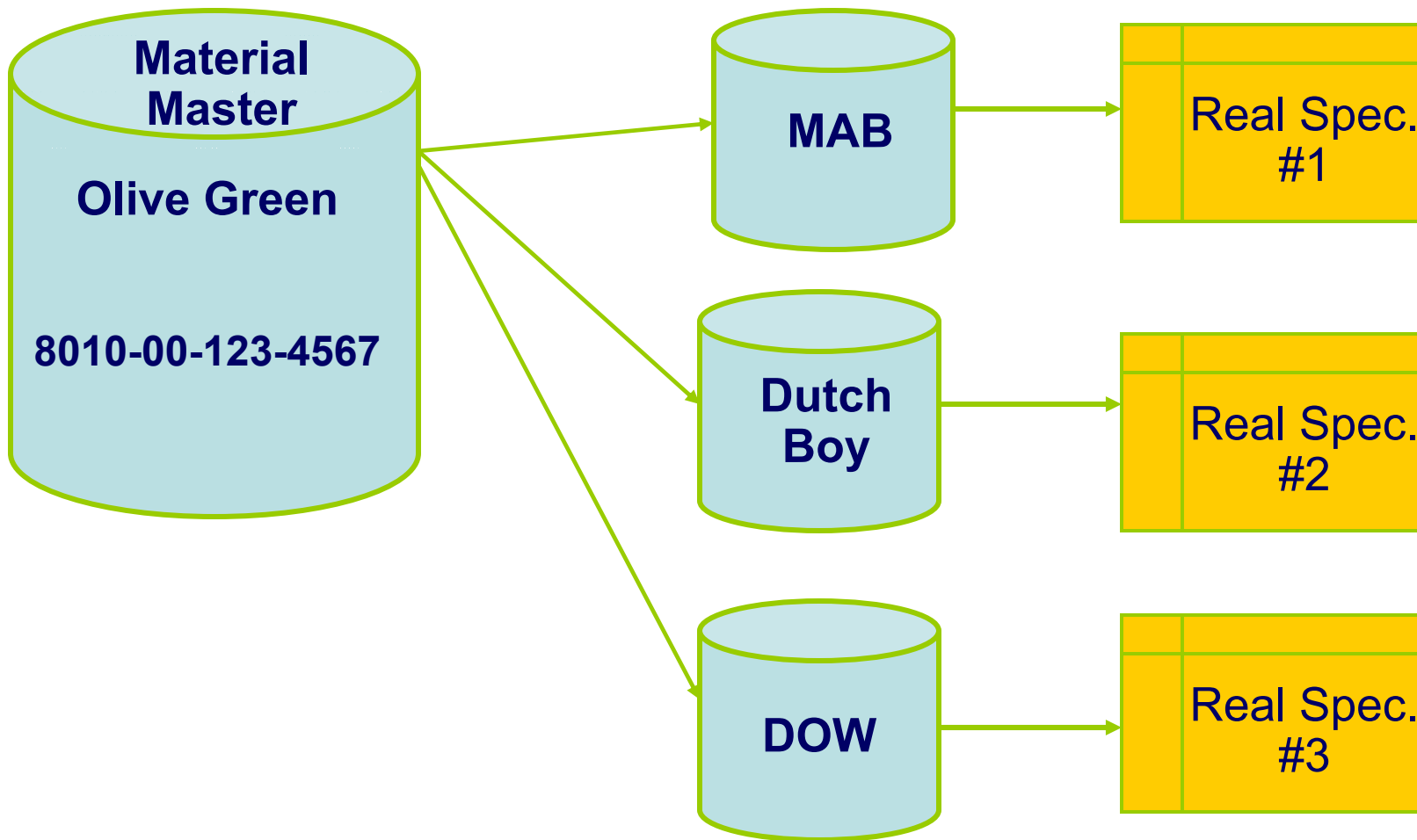
- Material Records Manage
  - Procurement
  - Inventory/Whse Mgt
  - MRP
- Real Substances Manage
  - Phys/Chem Properties
  - Chemical Composition
  - Hazards
  - Transport Information
- Listed Substance Manage
  - CAS #
  - Regulatory Limits

\* Master Data Records account for 421 unique characteristics as defined by the HAZMAT BPR initiative



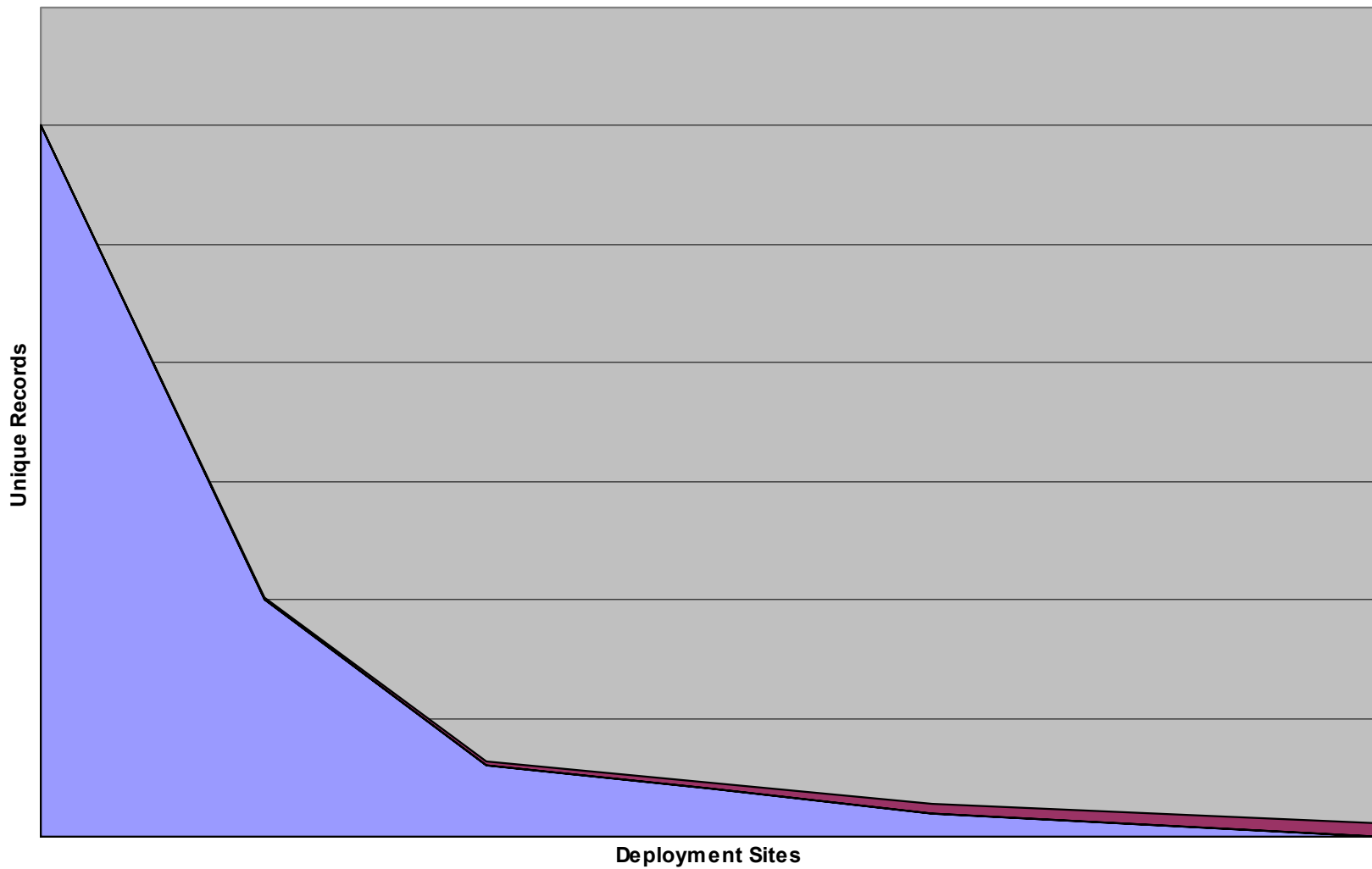


# Optimized Master Data





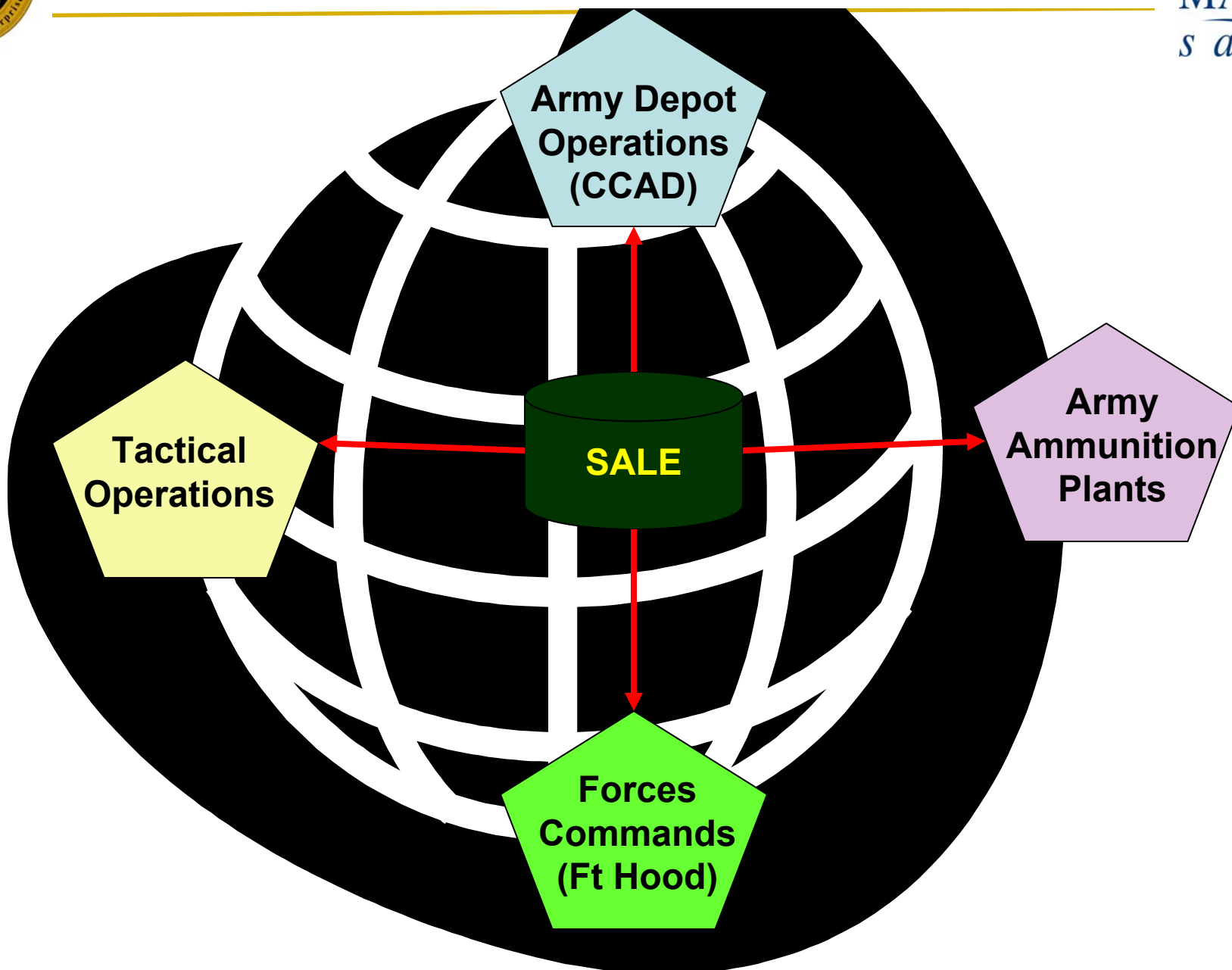
## Data Loading





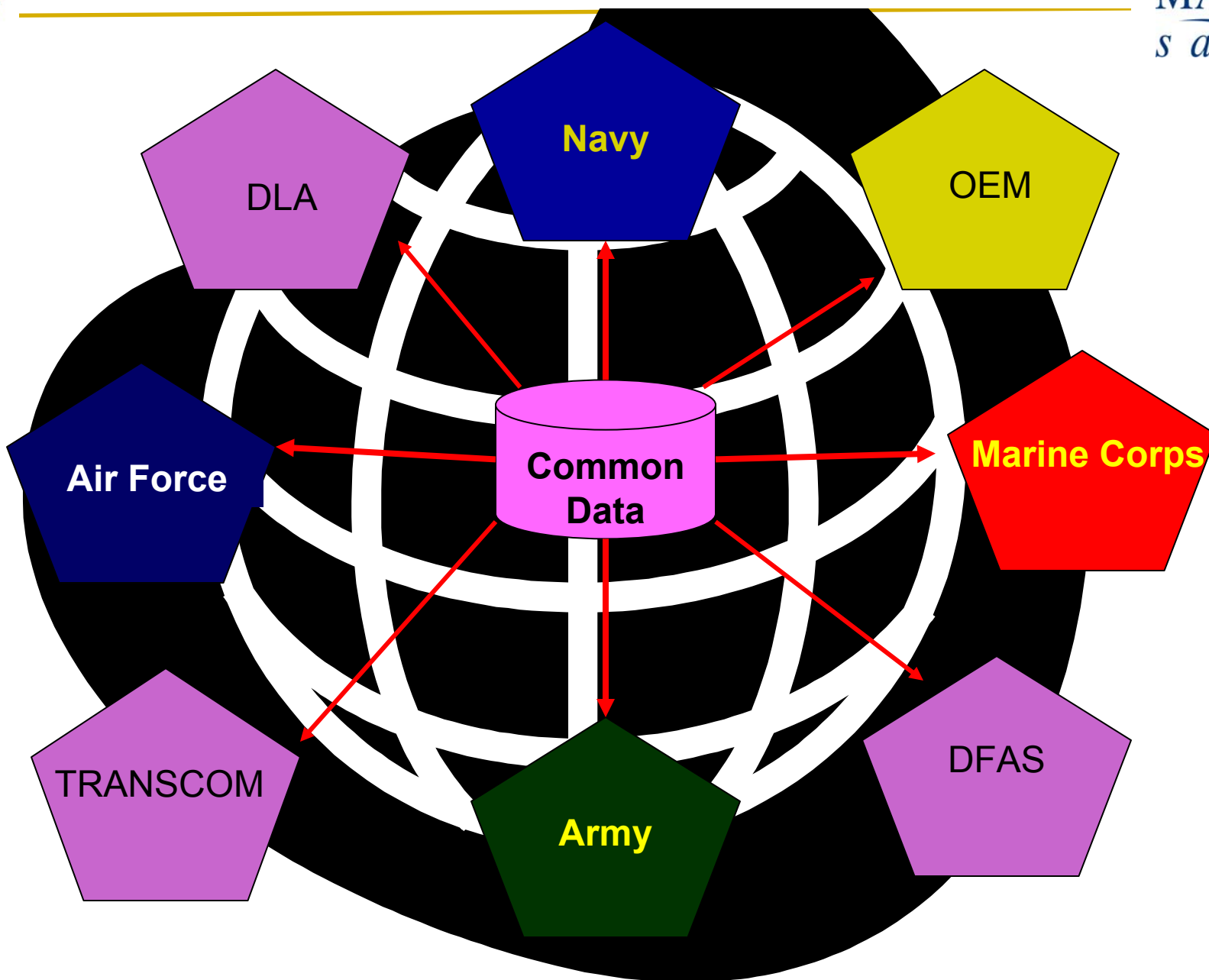


# SALE MDM Approach = Single Instance





# SALE MDM Approach = Scalable to DoD



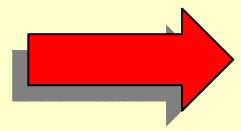
# Summary

**First ever Army  
Program Funding  
Line Secured for  
ESOH**

- ★ SALE is a Holistic, Factory to Foxhole Approach
- ★ ESOH is a major component of the Army ERP solution supporting commercial companies that conduct Logistics operations
- ★ ESOH Capability will be embedded in the Army Logistics Solution

## Bottom Line

**ESOH Capability imbedded  
in Army Logistics Solution**



**Better Readiness & Operational  
Success at Reduced cost**

