
Establishing 21st Processes for NNSA ISMS The Path Forward

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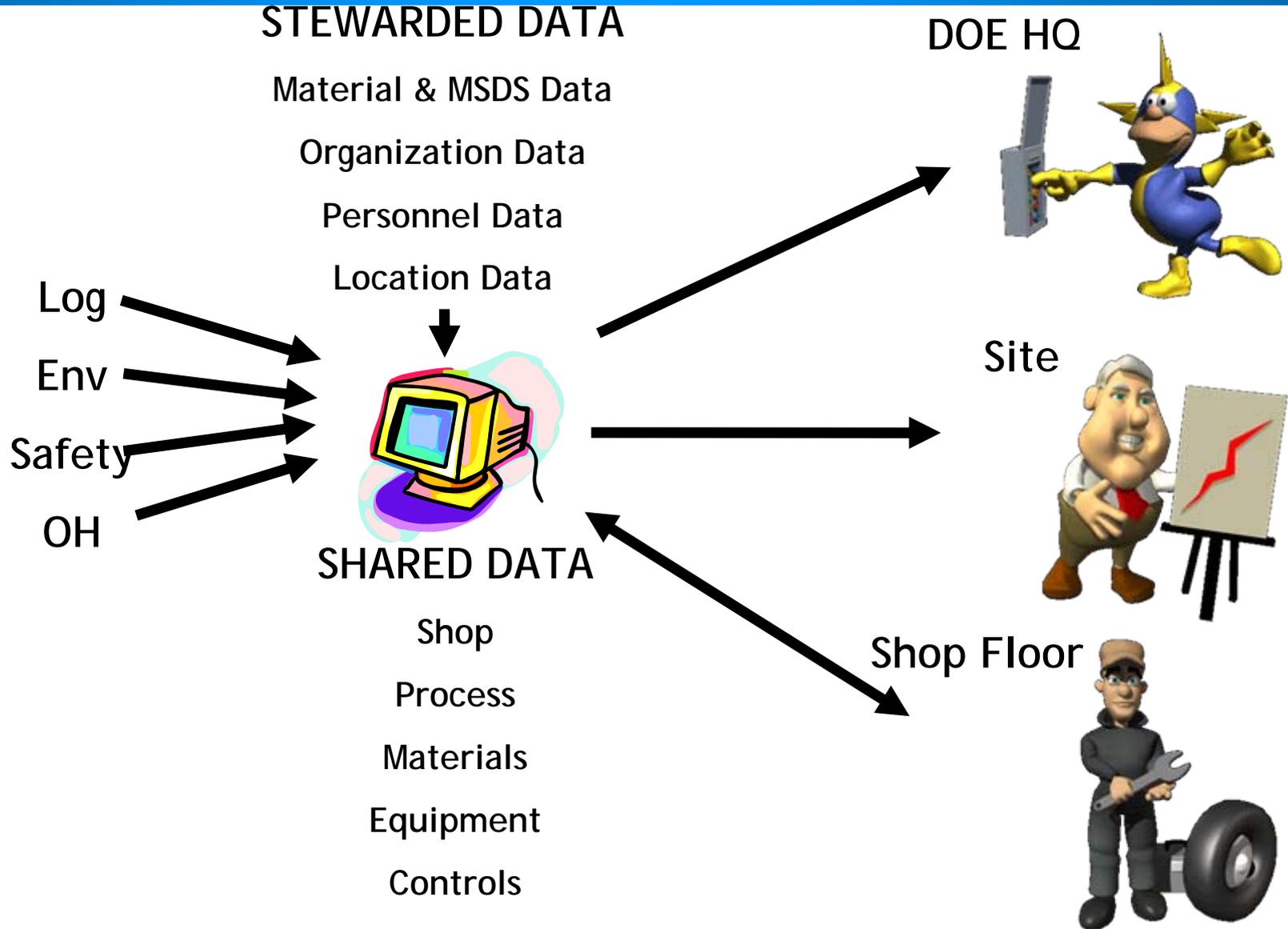
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- **Effectively managing ISM risks...**
 - » Exposure to Environmental, Safety and Occupational Health (ESOH) factors is a major concern for NNSA Sites, where employees handle chemicals, are exposed to hazardous conditions and require training in safe handling of materials and processing procedures. As an organization, DOE/NNSA sites are accountable for the materials used, the amount of emissions they put into the environment and the waste that's generated and disposed.
 - » The cost of ISM noncompliance can be extremely high.

- **Implementation of DOE ISM can be improved by...**
 - » Use of outcome measures that are value added
 - Leading indicators tied to worker performance (i.e. use of BBS/HPI metrics) and trend analysis of lagging indicators.
 - » Performance expectations tied to standardized outcome measures
 - Policy (What)
 - Technical guidance (How)
 - Multi-Site Initiatives
 - » Use of Integrated ES&H Data
 - Data is stewarded
 - Sustainment considered in planning & implementation of system

- **Enterprise ISM (an integrated ES&H ISM platform) will...**
 - » Improve management & control of worker hazards
 - » Improve ISM performance
 - Hazard ID, Select and implement Controls, Perform Work Safely and Feedback and Improvement
 - Can act as the work authorization gate for approving work.
 - » Improve CAS/LOCAS
 - Enable Sites to consistently track and manage both lagging and leading indicators for assurance of contractor ISM programs.
 - » Standardize ES&H tracking and reporting systems.
 - » Enable Sites to fully comply with ES&H regulatory requirements (10CFR850, 10CFR851, etc.)
 - » Enable Sites to consider moving beyond ISM into VPP.



Enter Data Once and Share Across the Enterprise

IT Side

E-ISM Integration Effort

- **Known Conditions**

- » Each site has its own set of unique IT for
 - Financials
 - Personnel
 - Work Management
- » Each site has its own Single sign on and authentication/credentialing
- » All Sites support the basic infrastructure needed for EISM/DOEHRS
 - ORACLE 10g
 - J2EE & ORACLE forms
 - Fusion
- » Need registration into the portfolio management
 - Dave Gerald-NNSA CIO

- **Initial agreement that distributed (site level copies) is the preferred path mainly because it's the path of least resistance and can get moving the fastest**
- **Can support a central implementation but this would require more effort on the part of all**
- **Security may be the best source for personnel info**
- **Each site has its existing chemical tracking that will need to be evaluated for integration/replacement**
- **Site level integration plans need to be generated**
- **Site level data sets are available and thus need detailed data requirement to determine scope of effort**

- **Steps to achieve the WKs objective**
 - » Generate Project Plan for the NNSA implementation of EISM
 - Address each function in priority as dictated by the EH&S side of meeting
 - Break down functions into end result metrics desired for management at each level
 - Generate site level project plans based on the requirements above
 - Site plans include integration plan
 - Data sets and data stewardship for each data set
 - » Assume MSDS/Chemical and Material data will go to a central steward process to support the NNSA complex

Way forward IT Continued

- **Need money to support the implementation plan**
- **Need agreed to means to fund the overall project e.g. 1-5 years**
 - » Will this be funded centrally?
 - » Will this be funded at the sites?
 - » Will this be a contract requirement?
 - » Will this be award fee criteria (multi site criteria)?

- » Establish a Center of Excellence to administer phased roll out of E-ISM.
- » Establish Data Stewards (all sites involved in process)
 - DOE/NNSA CCB
 - User work groups for various modules and “pick list”
- » Work with headquarters to establish/modify policies
- » Work with headquarters and sites to work initiative into the Multi-Site Initiatives
 - Sponsor identified
 - Resources justified/allocated