

Establishing 21st Processes for NNSA ISMS The Path Forward

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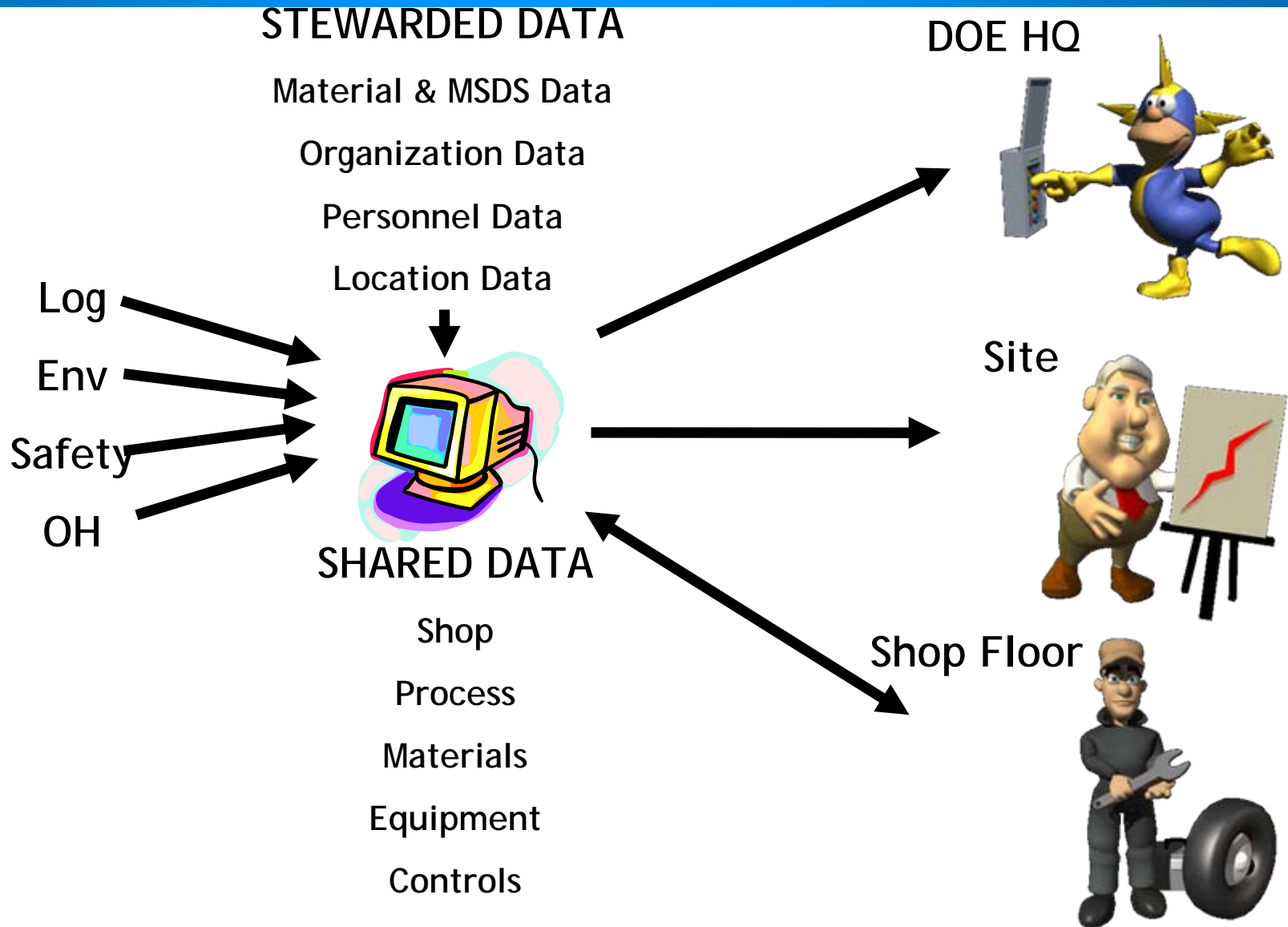
- **Effectively managing ISM risks...**
 - » Exposure to Environmental, Safety and Occupational Health (ESOH) factors is a major concern for NNSA Sites, where employees handle chemicals, are exposed to hazardous conditions and require training in safe handling of materials and processing procedures. 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

- **An integrated ES&H platform will...**

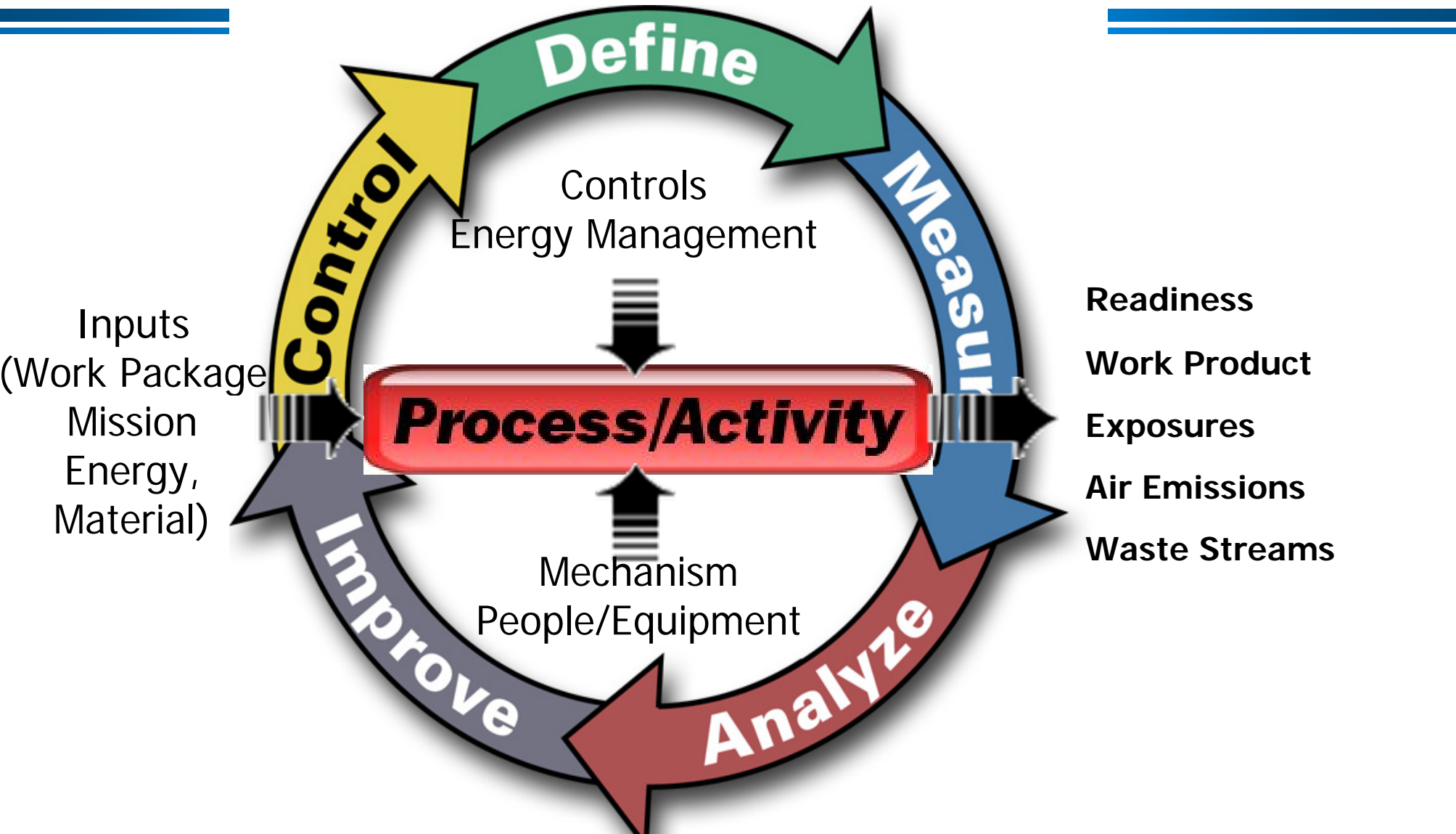
- » Improve management & control of worker hazards
- » Improve ISM performance
 - Hazard ID, Select and implement Controls, Perform Work Safely and Feedback and Improvement
 - Can act as the work authorization gate for approving work.
- » Improve CAS/LOCAS
 - Enable Sites to consistently track and manage 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.

Stewarding Common Data Once for Use By All



Enter Data Once and Share Across the Enterprise

Using the ISM "Process Management" Approach



Control is the Part We Tend to Leave Out

"How do we keep the improved process from bouncing back"

Taxonomy Between Functions

Common Language

Material
Cost
Schedule?

Perform
Specification
Cost?

***SAME WORK PROCESS -
DIFFERENT PERSPECTIVES***



Work Control



Quality

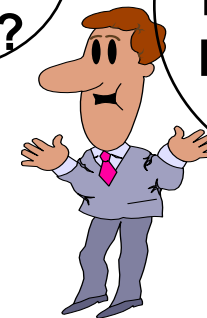
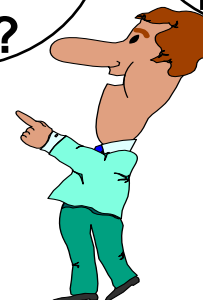
Exams
Restrictions
Impact?

Energy
Hazards
Controls?

Hazards
PPE
Controls
Risk?

Accidents
Hazards
Risks?

HazMat
Waste
Emissions
Resources
Permits?



Doc

CE

Occ Health

Safety

Environmental

***The Work is the Same
Why Can't it Be Called the Same***

● **Develop PEP with NNSA CIO**

- » Develop PEP for CD-0/CD-1. PEP provides process for approval and funding of EISM project.
 - Assigns Project Director
 - Assigns Project Manager
- » Meetings held with CIO
 - Met with Bob Brese staff and they have offered support as needed.
- » During PEP approval process will compare alternatives if GOTS application is the preferred application then immediately go into CD-1 phase.

Proposed Path Forward

● Expand partnership with DoD

- » Request official copy of the GOTS application currently known as DOEHRS within the DoD.
- » Modify DOEHRS (i.e. refresh pick lists so that they are aligned with DOE/NNSA processes using a standardized naming nomenclature).
- » Change name of the application from DOEHRS to Enterprise Integrated Safety Management-Exposure Assessment (EISM-EA).
 - EISM-EA will be the basic building block for EISM.

Proposed Path Forward

- **Determine location for EISM-EA**
 - » Centralized DOE/NNSA server
 - » Individual site servers or a
 - » Combination of enterprise and local level.

- **Provide resources for installation and training.**

Proposed Path Forward

- **Provide EISM-EA to at least three sites (NTS, one Lab and one production site) for preliminary evaluation.**

- » This may be completed in conjunction with SRS (EM/NNSA) implementation of EISM-EA. (*proposed for FY 09-10*)
- » This may be completed in conjunction with NA-30 (Naval Reactor sites) beta test of EISM-EA at INL. (*proposed for FY 09-10*)

Proposed Path Forward

- **Establish a Center of Excellence to administer phased roll out of E-ISM.**

- » Charter DOE/NNSA CCB. Designate members.
- » Establish Data Stewards (all sites involved in process)
 - Designate User work groups (i.e. EFCOG) for various modules and “pick list”
 - Designate Pick List Administrator
- » 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

Proposed Path Forward

- **Develop 5 year strategic plan for EISM.**
 - » Fund and complete a needs analysis for EISM.
 - » Determine and document requirements
 - » Determine costs and fund phased in implementation of EISM
 - » Build upon DOE/NNSA lessons learned from each phase of implementation.