
The Present State of RCM at the Y-12 National Security Complex

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Presentation Agenda

- Transforming Physical Asset Management at Y-12
 - PAMS Process
- Implementation
- Analyses Performed
- Future Plans

Transforming Y-12 Physical Asset Management

2005 - 2007

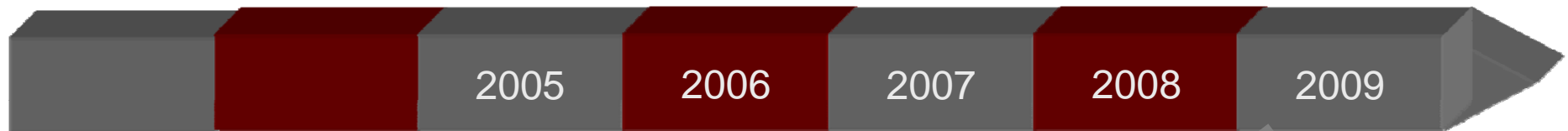
- Focus on reliability and plant function
- Provide technically defensible failure management strategies
- Application of SAE JA1011 compliant RCM
- Implement *Physical Asset Management Solution (PAMS)*



2008

- Institutionalize *Physical Asset Management Solution (PAMS)*
- Utilize PAMS analyses for new facilities being constructed
- Continue working to train and certify in-house RCM facilitators

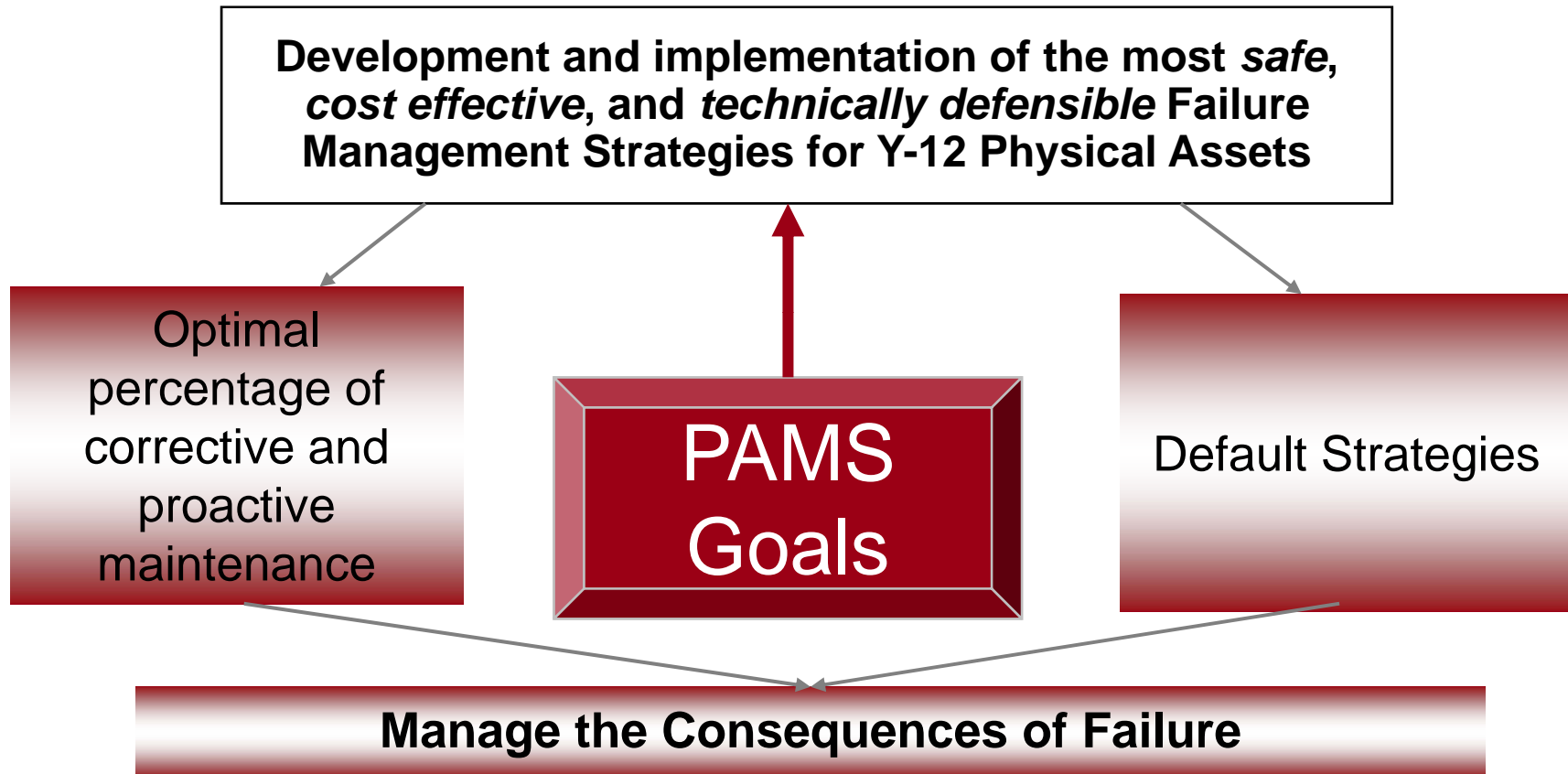
Transforming Y-12 Physical Asset Management



2009

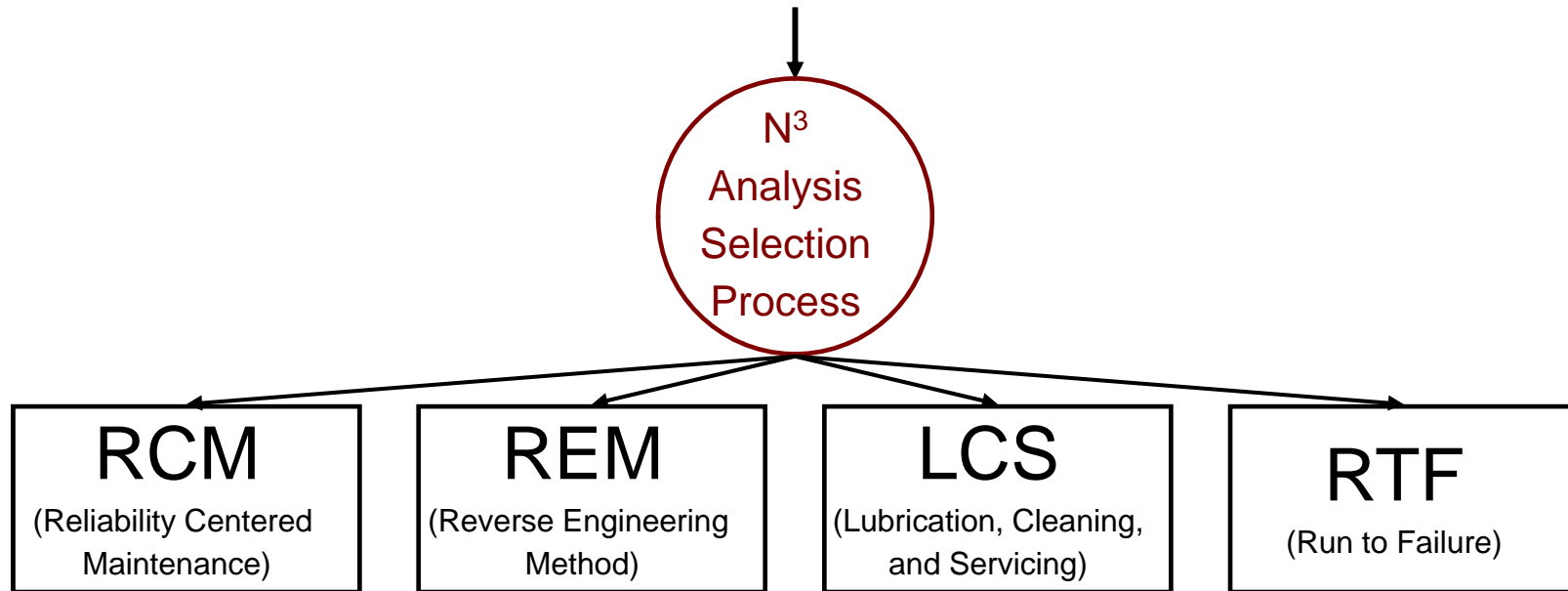
- Incorporate Reliability and Maintainability into the Design for new Uranium Processing Facility (UPF)
- Begin actively tracking and trending of previous analyzed systems
- Investigate the capability of linking CMMS with reliability software

Goals for the PAMS

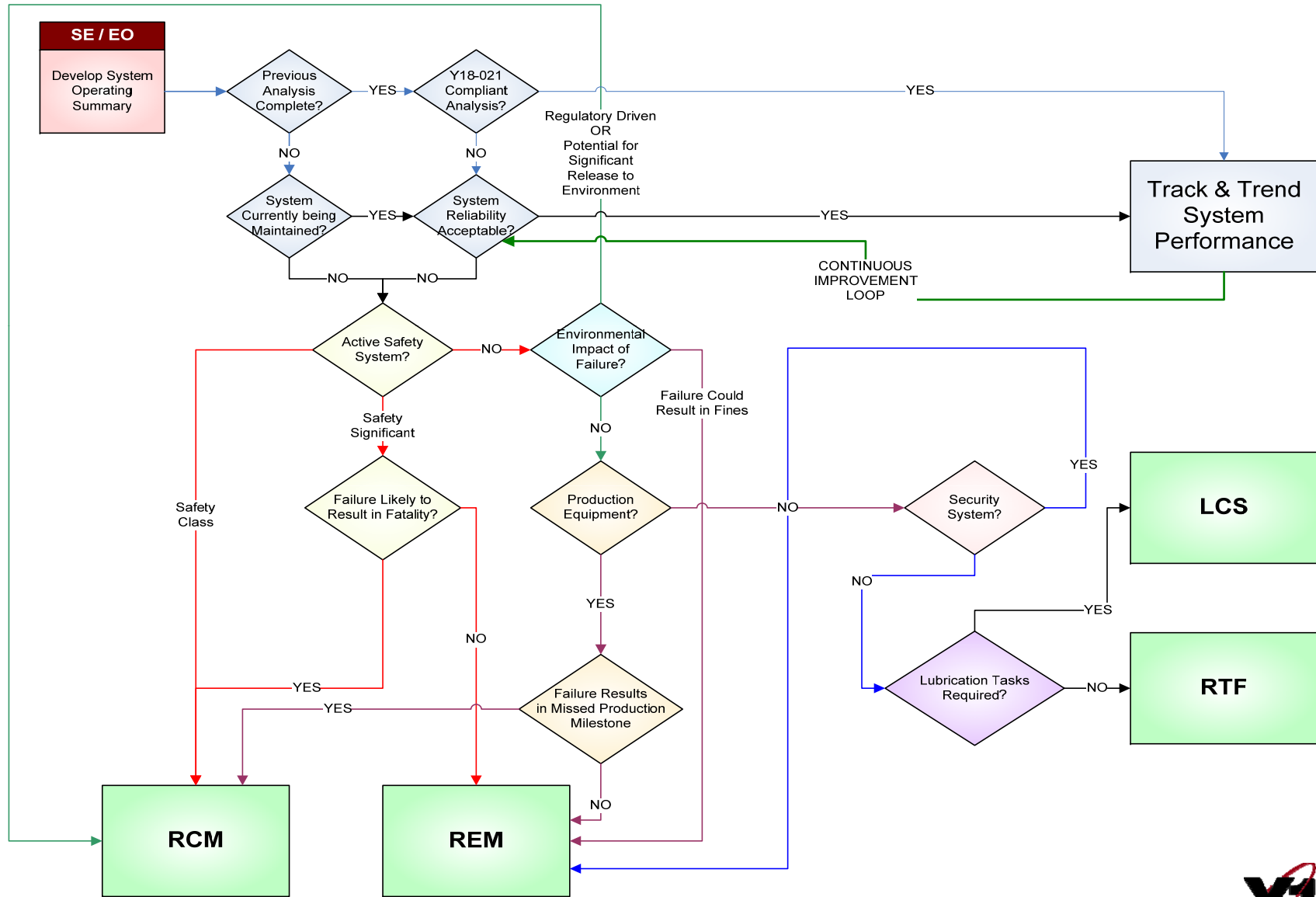


Physical Asset Management Solution (PAMS)

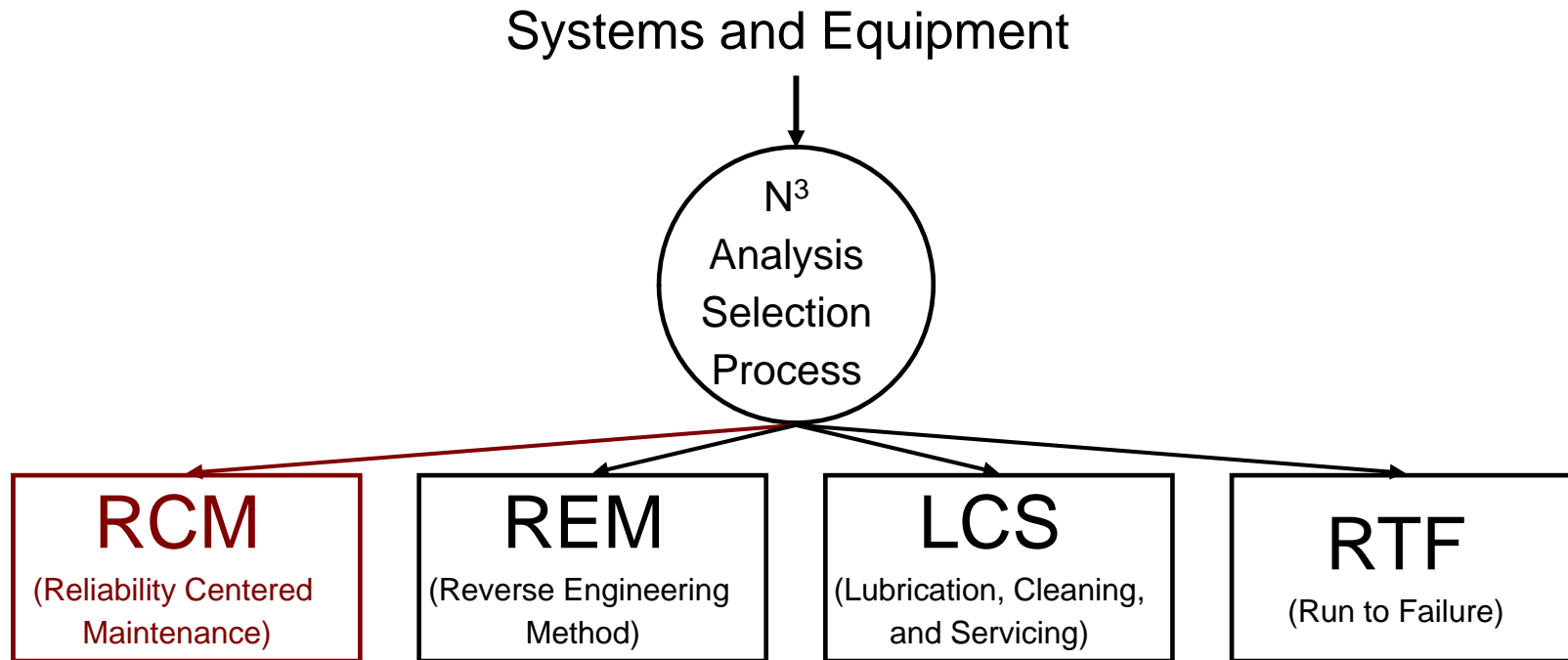
Systems and Equipment



The N3 Analysis Selection Process



Physical Asset Management Solution (PAMS)



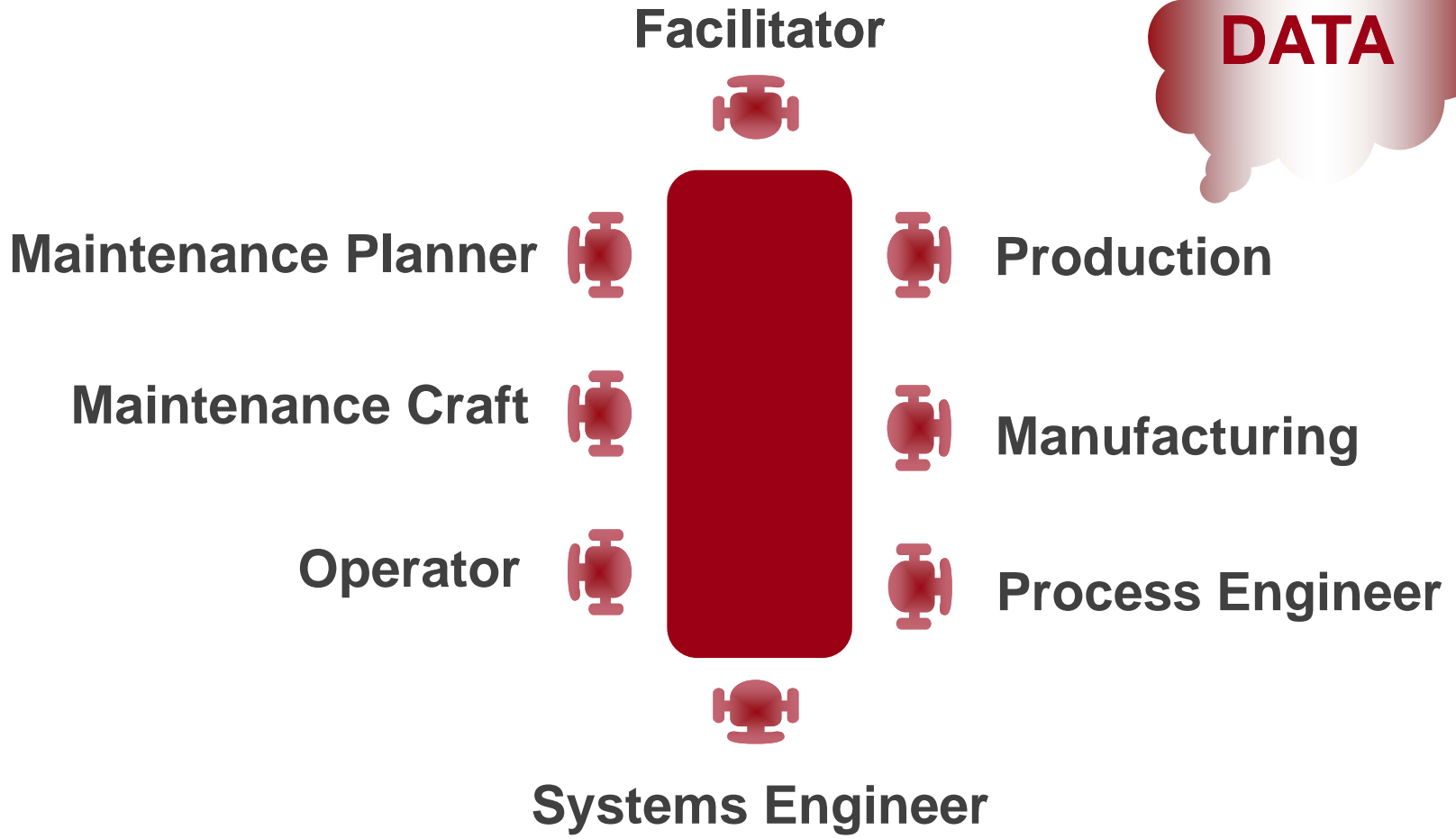
“True RCM” process is used

RCM process is compliant with SAE-JA1011,
*Evaluation Criteria for Reliability Centered
Maintenance Processes*

1. Functions
2. Functional Failures
3. Failure Modes
4. Failure Effects
5. Failure Consequences
6. Proactive Maintenance and Intervals
7. Default Strategies

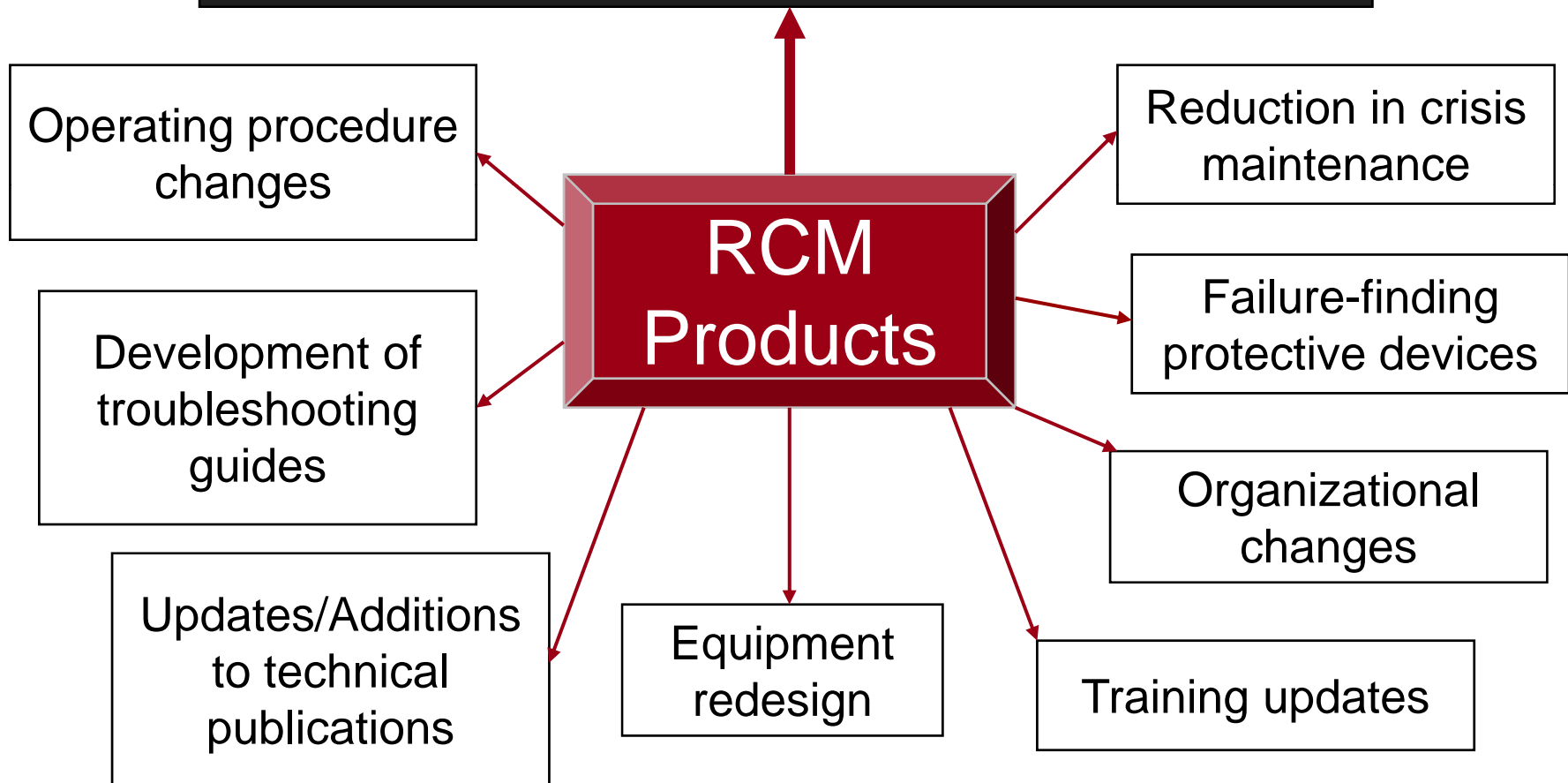
Facilitated Group Approach

RCM Working Group



RCM Products

Development of the most *safe, cost effective, and technically defensible* proactive maintenance program



Implementation

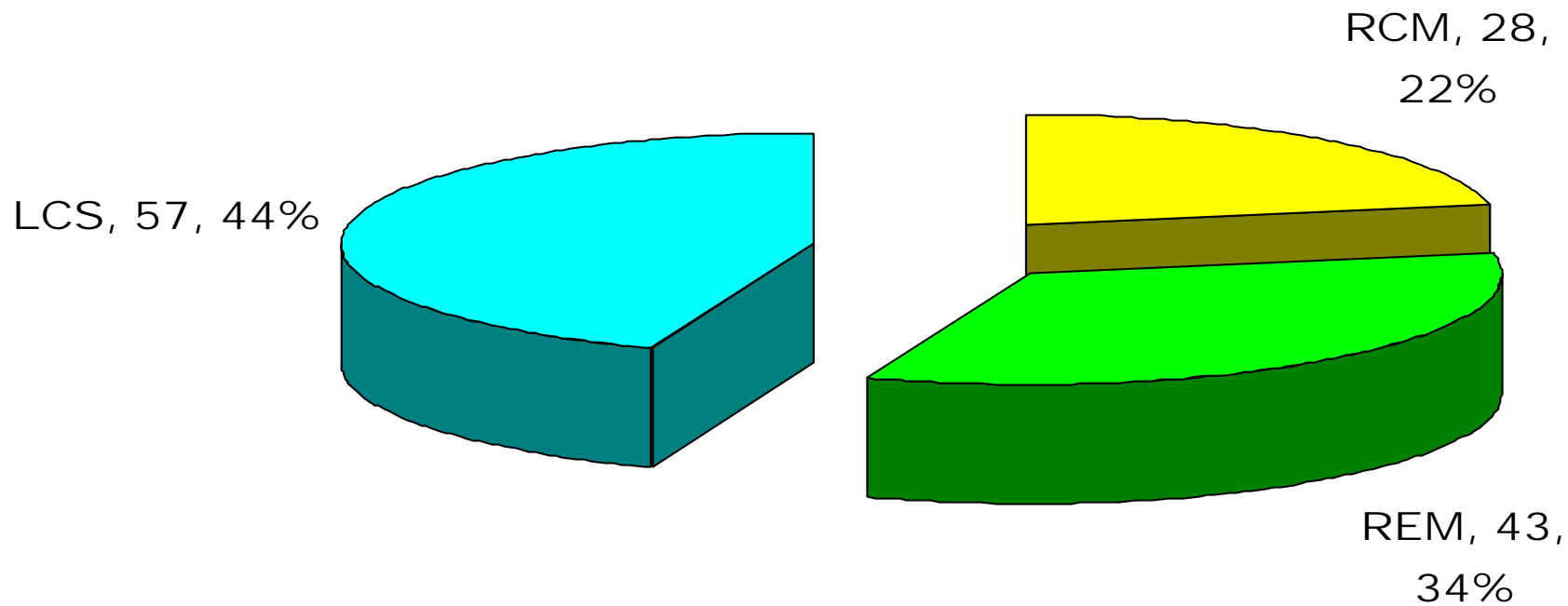
After the analysis is completed:

- Analysis is validated
- Equipment owner approves, funds, and implements
- Maintenance tasks are given to the planner to write maintenance work plans
- ~3 months to implement the maintenance tasks of an analysis
- Of all analyses, ~80% are implemented

Analyses Performed

FY05 – 09

138 Analyses



REM: 43 Analyses

- REM
 - Analyses completed with a Working Group
 - Because of unique environment and projected equipment usage:
 - Approximately 15% of vendor recommended tasks eliminated
 - Approximately 25% of vendor recommended tasks intervals adjusted

LCS: 57 Analyses

- LCS
 - Analyses completed with
 - Working Group
 - One-on-one with operator/maintainer

Future Plans

- FY2009 Plans
 - Implement PAMS analyses on new storage facility (HEUMF) and additional legacy systems
 - Incorporate reliability and maintainability into Design of new production facility (UPF)
 - Investigate the Isograph RCM software
 - Develop a plan to implement tracking and trending with CMMS data for the analyzed systems

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