



DYNAMIC POSITIONING CONFERENCE
October 13-14, 2015

PERFORMANCE (Lunch Presentation)

Leveraging Data to Improve Performance

Charlies Williams
Center for Offshore Safety



CENTER FOR
OFFSHORE
SAFETY

Leveraging Data to Improve Performance

Charlie Williams

Executive Director

williamsc@centerforoffshoresafety.org

MTS DP CONFERENCE WORKSHOP

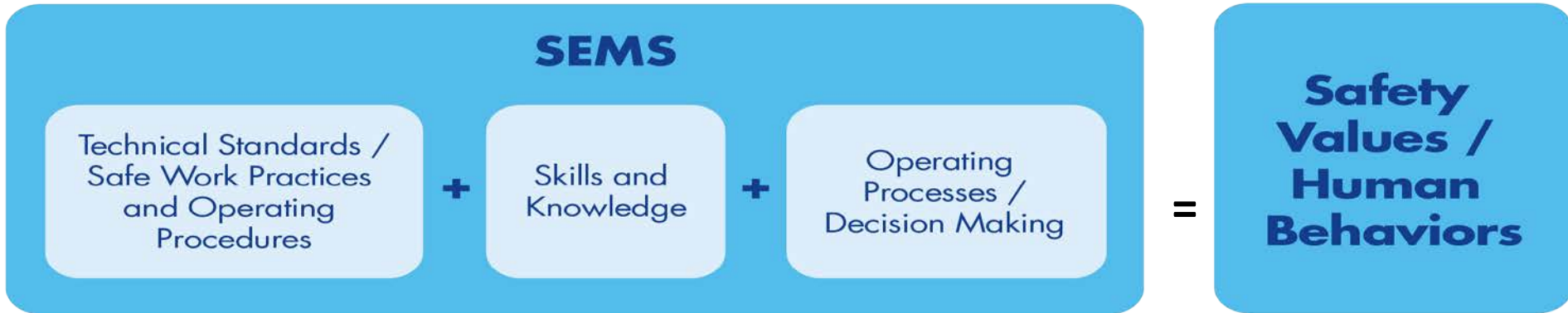
Why SEMS –

Safety and Environmental Management System?

- Shifts from a prescriptive rule based approach to one that is proactive and performance based
- Manages safety with the same principles of planning, organization, implementation, and investigation that are in all other business functions
- SEMS includes Process, Personal, and all safety programs

Rule and inspection based systems are important but do not fully address the safety management system errors often seen in major incidents

What is a Safety and Environmental Management Systems (SEMS)

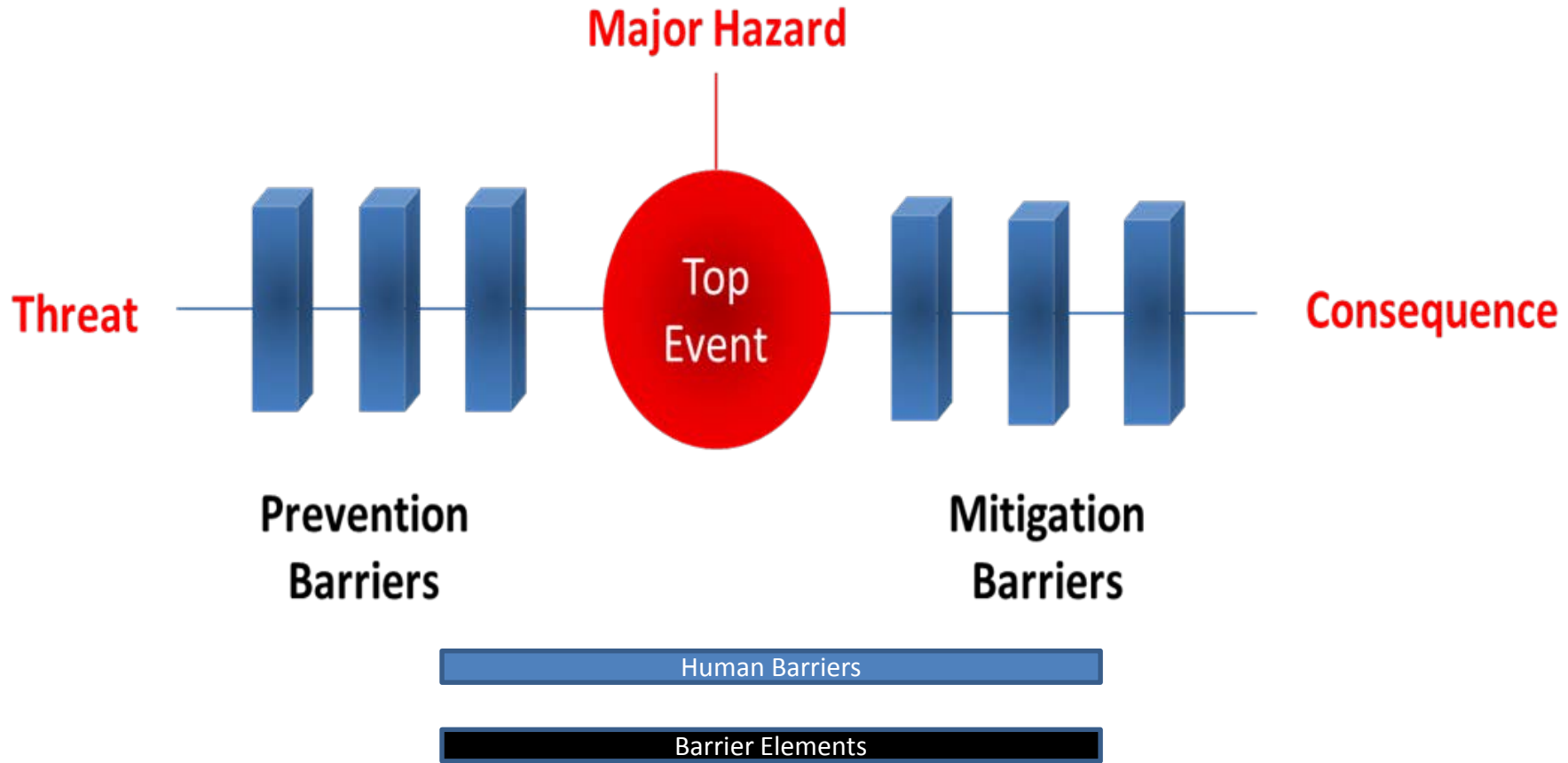


- SEMS delivers Safe & Reliable Operations / Operational Integrity if Effectively Implemented
- SEMS is a key mechanism to reduce the likelihood of major incidents

Two Types of COS SPI

- **Activity SPI: a forward looking measure that can give early indication of the performance of a barrier and can help explain why a desired result was achieved or not.**
- **Outcome SPI: a retrospective measure based on the result of an activity or incident.**

- What's driving COS efforts?



Continuous Learning

Safety Performance Indicators

Learning from Incidents

Process or Equipment Design or Layout

Process or Equipment Material Spec, Fab, & Build

Process or Equipment Reliability

Instrument, Analyzer and Controls Reliability

Personnel Skills or Knowledge

Quality of Task Planning and Preparation

Individual or Group Decision-Making

Quality of Task Execution

Quality of Hazard Mitigation

Communication

Risk Assessment and Management

Operating Procedures or Safe Work Practices

Management of Change

Work Direction or Management

Emergency Response

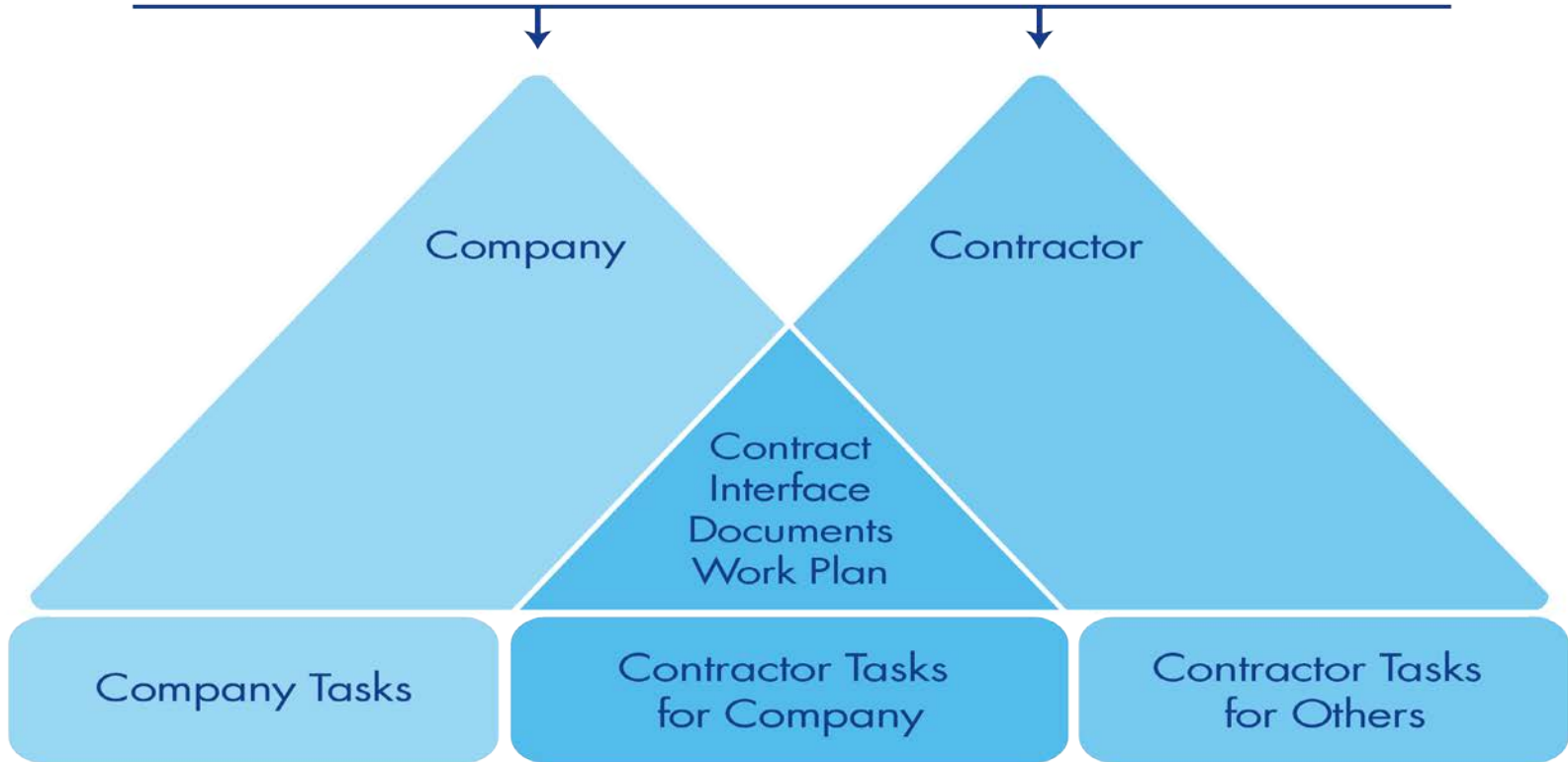
Effective Safety Information Systems

- **Assess through discussions with personnel at all levels how the elements of the SEMS is actually implemented**
- **Feed back results to top management**
- **Expect continuous improvement and monitors for it**

Key SEMS Concept:

Operator/Contractor Interfaces

Legislation, Industry Standards, Business Environment



Summary

- **COS and industry are on a journey of continual improvement through SEMS**
- **Data, rather than perception, can now drive continual improvement work**
- **COS member focus remains on measuring, at an industry level, the integrity of barriers that prevent and mitigate major incidents and the performance of the entire SEMS system**
- **The goal – no harm to people and no damage to the environment or assets.**

Thank You!

Charlie Williams
Executive Director
williamsc@centerforoffshoresafety.org