



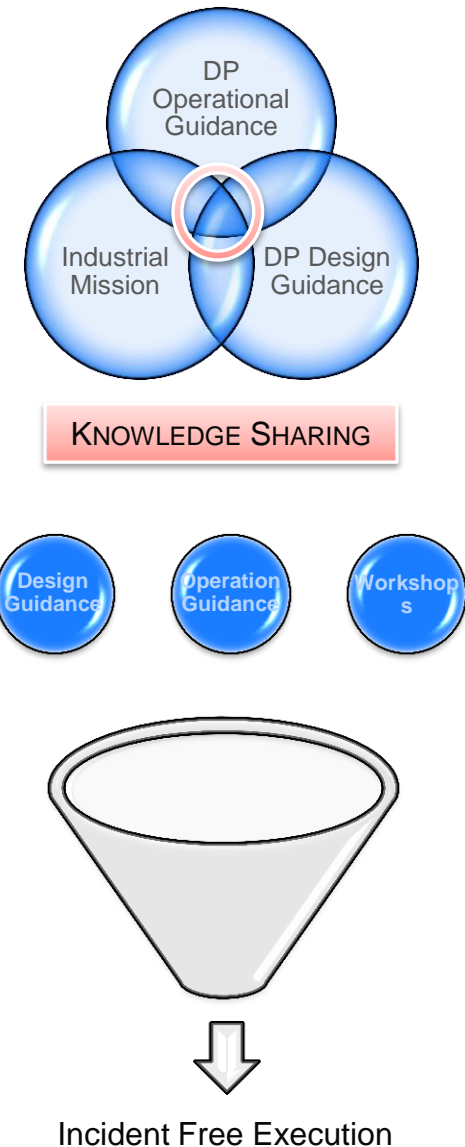
# ENABLING SAFER DP OPERATIONS

Marine Safety Forum

Pete Fougere & Suman Muddusetti  
MTS DP Technical Committee

# OBJECTIVE- SAFER DP OPERATIONS

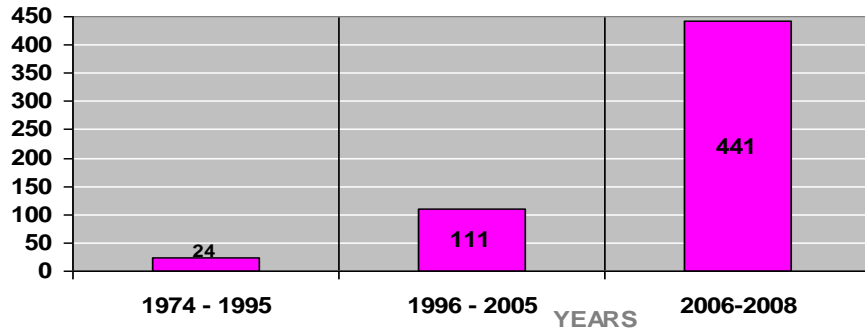
- ❖ Provide overview on initiatives
  - Knowledge Sharing
  - Design Guidance
  - Operational Guidance
- ❖ Goals: ① ② ③
  - Deliver incident free execution
  - Address dilution of skills with use of Decision Support Tools (DSTs)
  - Provide DSTs and implementation methodology to aid in certainty of outcomes



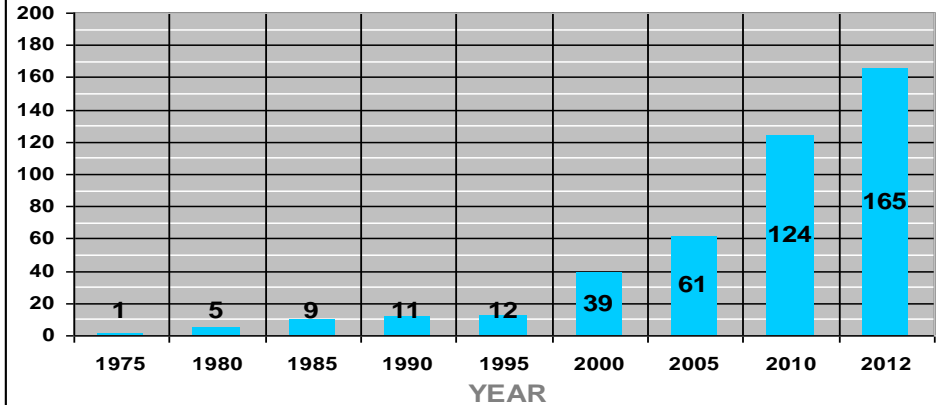
# CASE FOR ACTION

## EXPERIENCE BASE? DILUTION OF SKILLS!

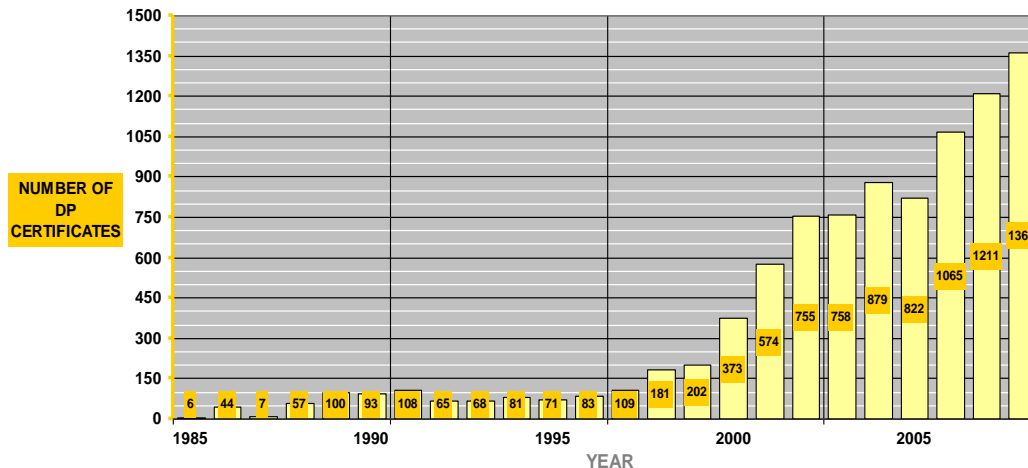
VENDOR 1: DP SYSTEMS SOLD (ANNUAL AVERAGE)



WORLDWIDE: NUMBER OF DP DRILLING UNITS



WORLDWIDE



70% of  
Qualified  
Personnel  
Less than 2.5  
yrs  
Experience!

# OVERSIGHT BODIES & OPERATIONAL RISKS!

## CLASS DOES NOT PROVIDE OPERATIONAL OVERSIGHT

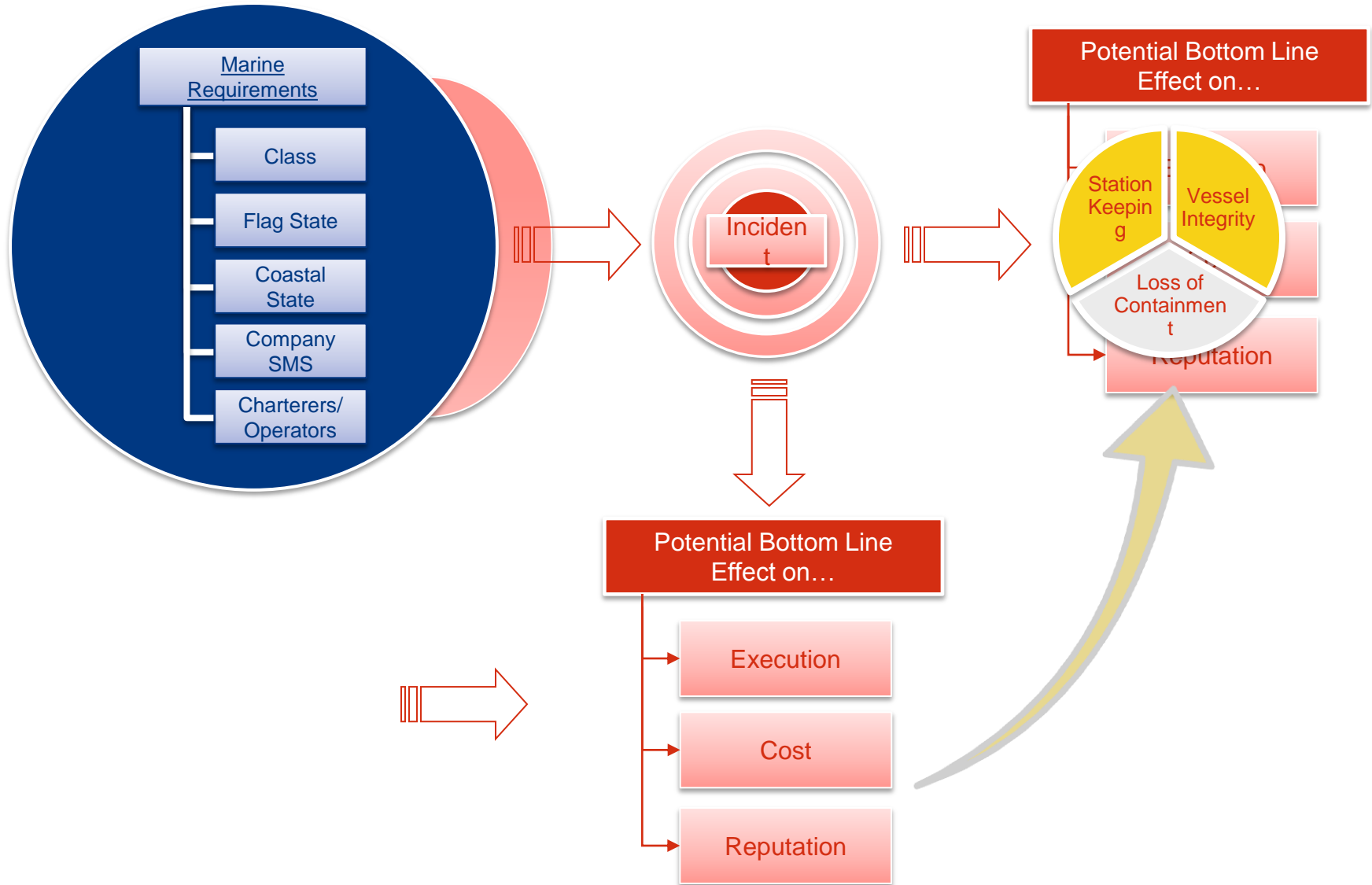
	IMO (International Maritime Organization)	Flag state	Classification Society	IMCA (International Marine Contractor Association)	NI (Nautical Institute)
Guidelines	Yes	*Yes	No	Yes	*Yes
Rules	No	*Yes	Yes	No	No
Addresses Operations	No	No	No	No	No
Training & Competency	No	No	No	Yes	Yes

Oversight Bodies include:

- Classification Societies (DNV, ABS, LRS, BV)
- International Maritime Organization (IMO)
- International Marine Contractor Association (IMCA)
- Nautical Institute (NI)
- Flag state

**Area of Primary Exposure**

# MARINE RISKS



# MTS DP TECHNICAL COMMITTEE

## WORKING TOGETHER & ENABLING SUCCESS

### OPERATORS

- Chevron
- BP
- Exxon Mobil
- Petrobras
- Shell

### VENDOR

- Equipment (KM, Converteam, ABB, Veripos)
- Consultant (GLND, GM, Wavespec, DP expertise)



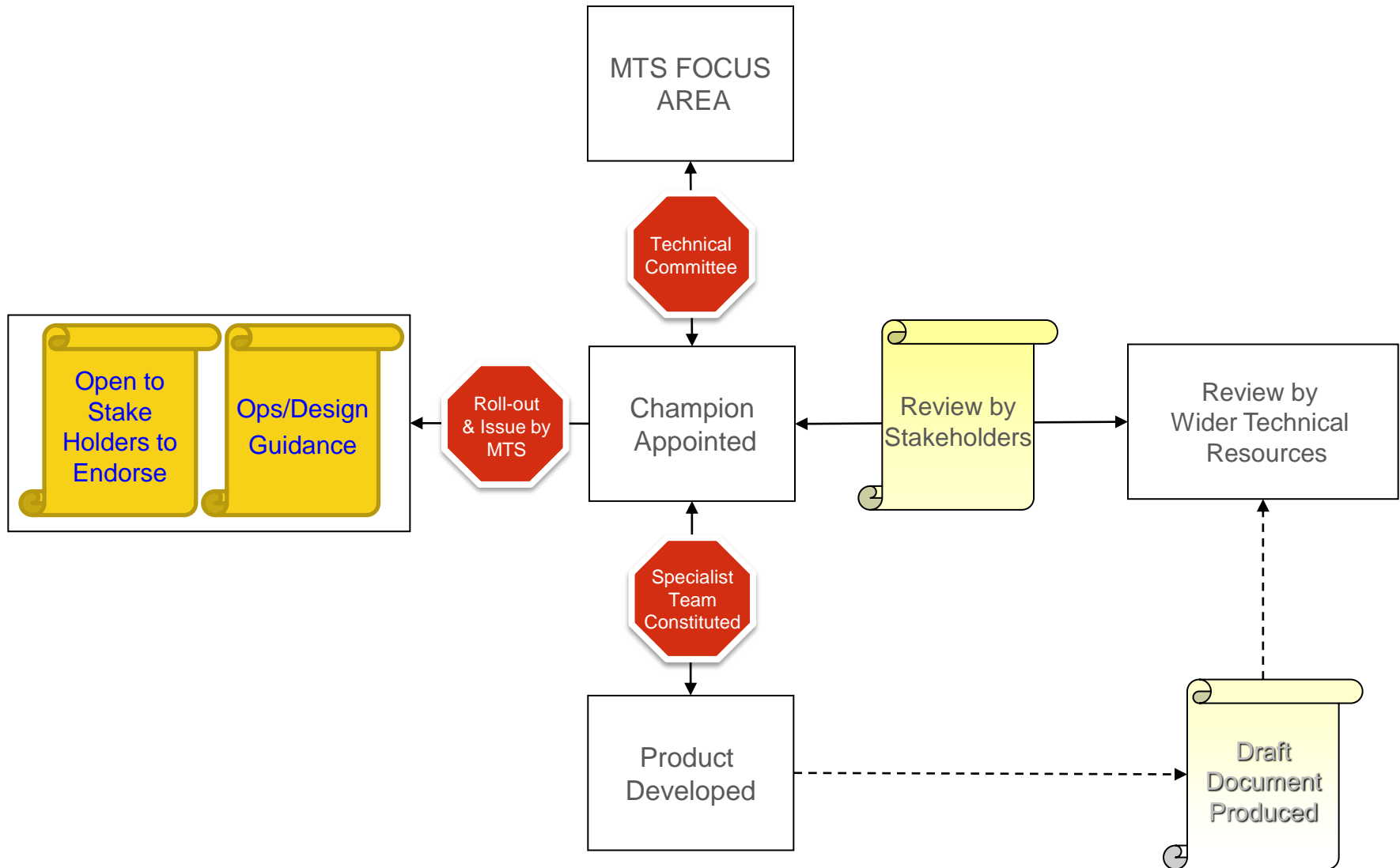
### CONTRACTORS

- ECO
- HoS
- Aker
- Transocean
- Seadrill
- Pacific Drilling

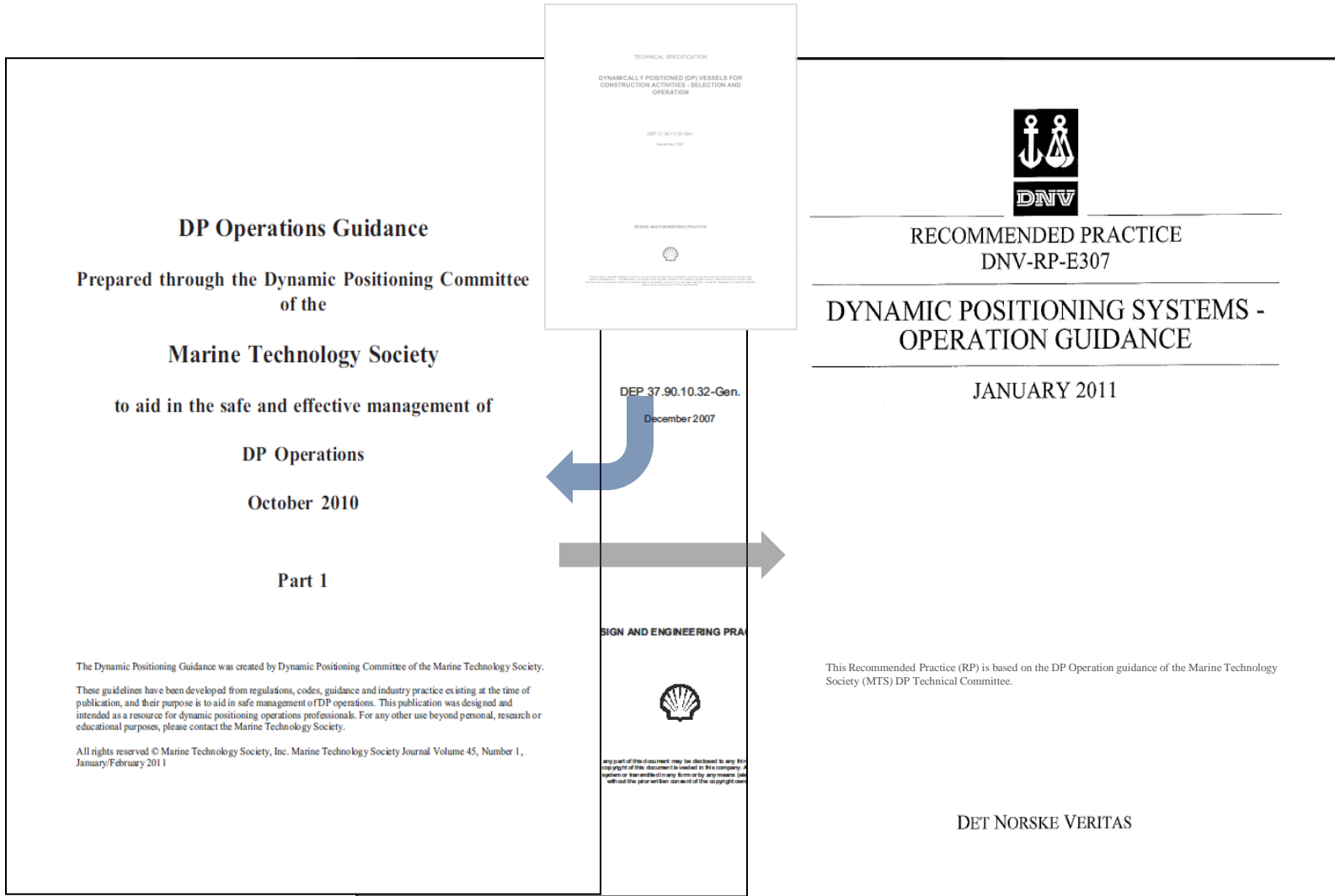
### REGULATORY BODIES

- DnV
- ABS

# DEVELOPMENT METHODOLOGY



# DP DEP - DEP TO RP



# LEARNING FROM INCIDENTS- A CASE STUDY

## ❖ Results - Pre & Post DP DEP Implementation

### ❖ Results Post Implementation of DP DEP

➤ ASOGs Issued: total of 171

➤ Incident Free Years: 2005 - 2008, 2010

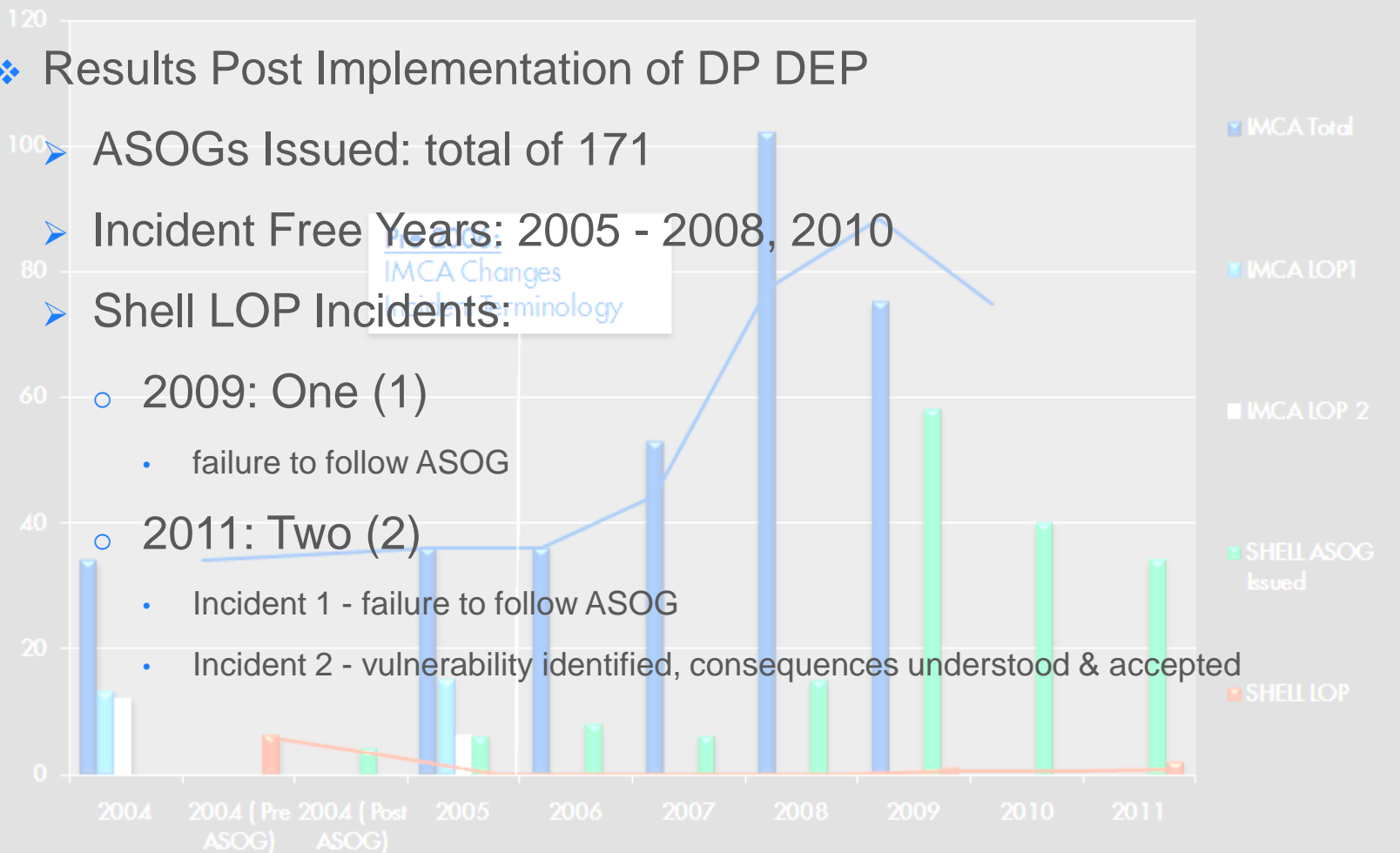
➤ Shell LOP Incidents: [IMCA Changes](#) [Incident Terminology](#)

○ 2009: One (1)

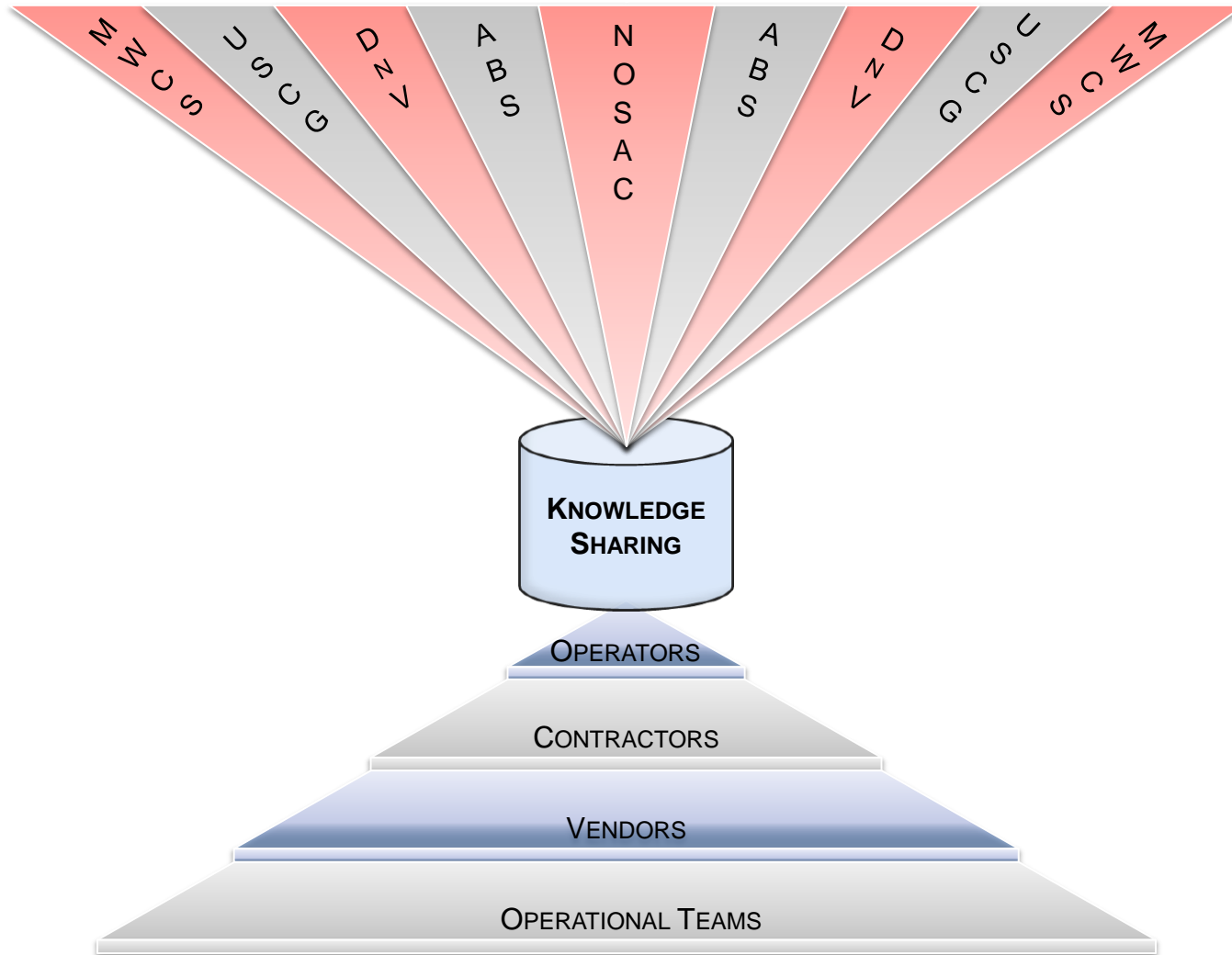
- failure to follow ASOG

○ 2011: Two (2)

- Incident 1 - failure to follow ASOG
- Incident 2 - vulnerability identified, consequences understood & accepted



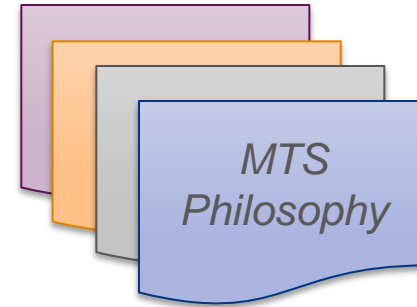
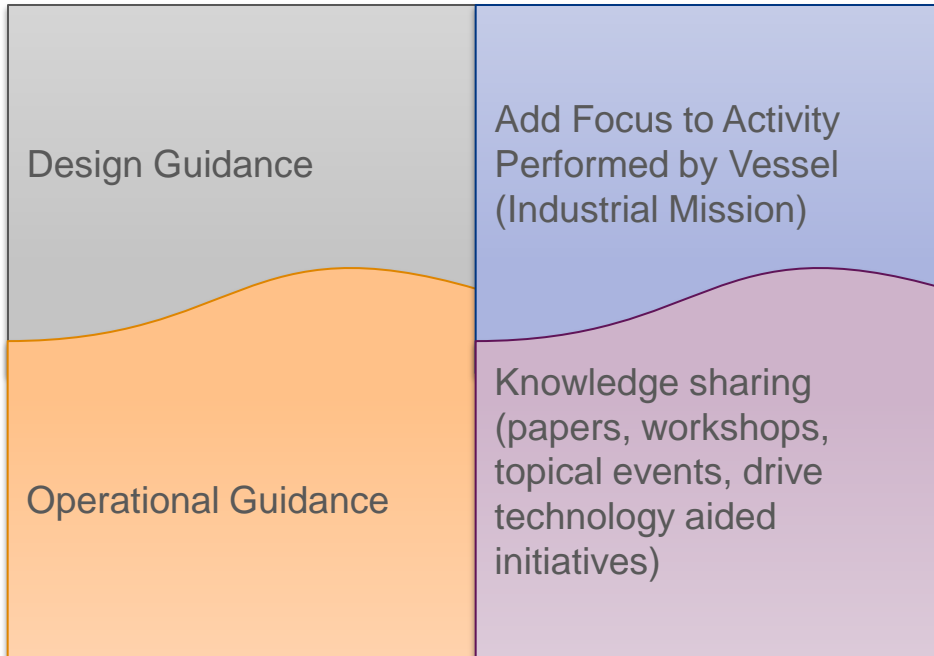
# WORKING TOGETHER - SUPPORTING INDUSTRY



# MTS LOOKING FORWARD

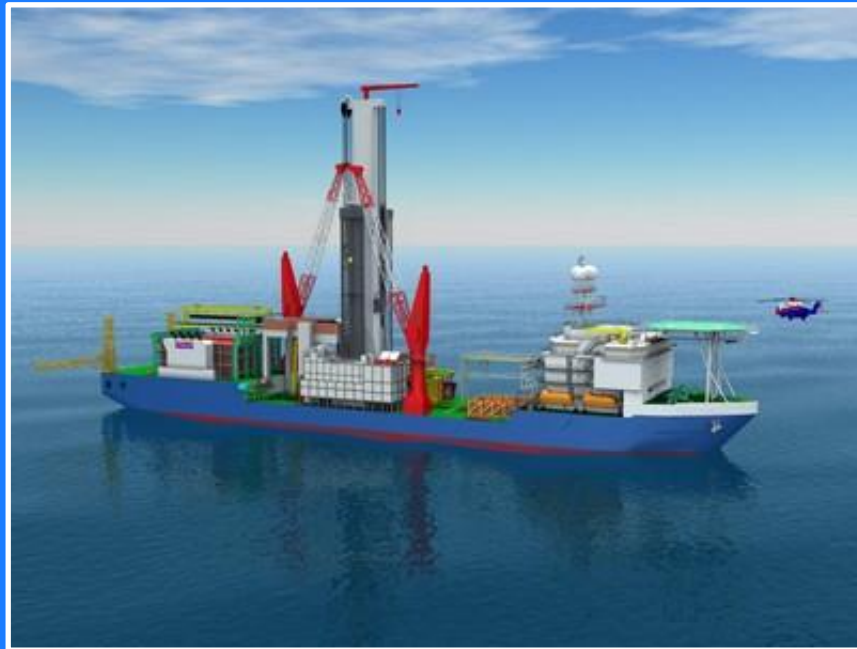
- ❖ White Papers
  - Topical
  - Focus on statistical probability areas
  - Key areas
- ❖ Workshops
  - Guidance documents
  - Focus areas facing industry
- ❖ Incident Reporting & Analysis

# MTS ENABLING SAFER DP OPERATIONS

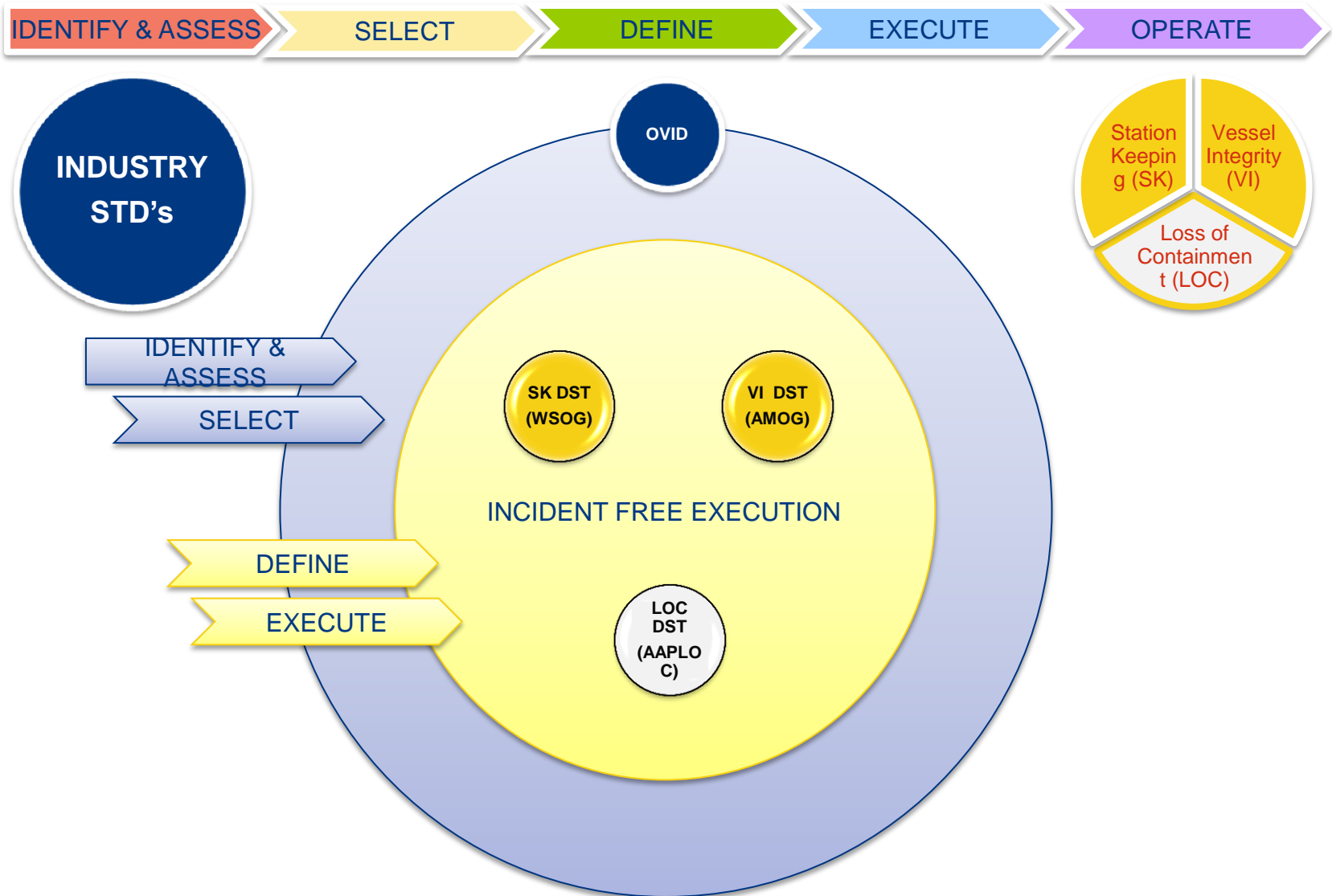


- Knowledge sharing
- Multitude of disciplines involved
  - Sharing of best practices
  - Stakeholder engagement

- Objectives
- Clarity
  - Common Understanding
  - Addressing Risk
  - Encourage Sustainable Capability Development



# OVID & DEP'S DELIVER INCIDENT FREE EXECUTION



# FOCUS DISCUSSION TOPICS

- ❖ Industrial Mission
- ❖ Statistical Understanding (e.g., bus bars lightning protection 3X0)
- ❖ Improve Quality of FMEA
- ❖ Decision Support Tools
- ❖ Independent 3P Engagement
- ❖ Common Goals