

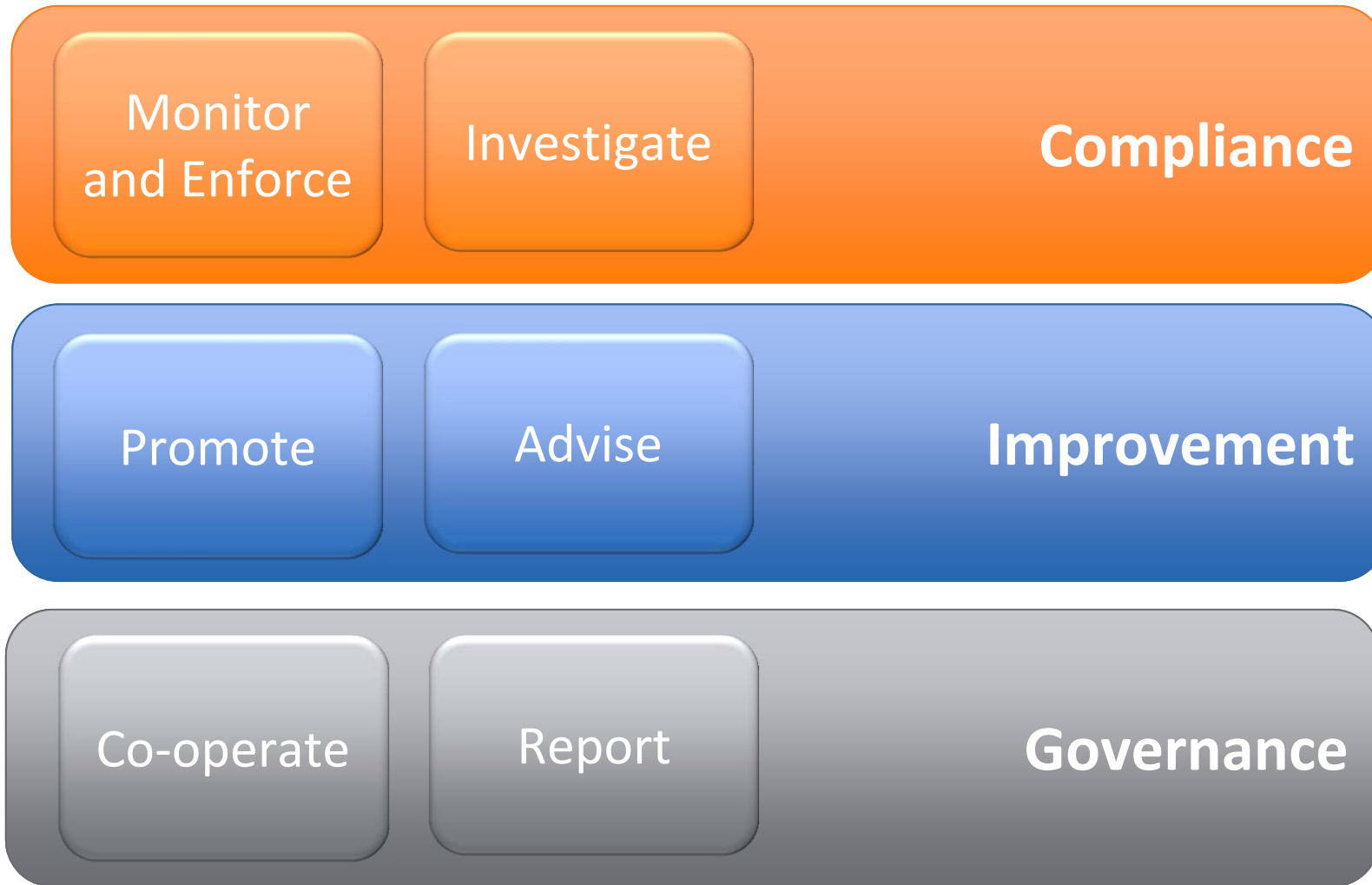
# NOPSEMA – Topic-based inspections at offshore facilities

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APPEA HSR Forum – 5 August 2013



- Why topic-based inspections?
- To **identify and examine common issues** in safety management *across* Australian offshore industry
  - In conjunction with ongoing NOPSEMA inspection program
  - Focuses **development of compliance program**
  - Provides **lessons to share with industry.**



## Assessment

- Challenge operators: **“Have you done enough?”**

## Inspection

- Challenge operators: **“Are you doing what you said you would do?”**

## Investigation

- Challenge operators: **“What wasn’t done? What can we learn?”**

## Enforcement

- Take action: within powers to **secure compliance**



- OHS inspector's powers come from the Act
- Control measures related to Major Accident Events and OHS controls
- Inspections carried out in an informed, risk-based and consistent manner
  - **Is the reality consistent with Safety case?**
  - **Are robust systems in place to control risks?**



- Attend entry and exit meetings
- Dedicated meeting between HSRs and NOPSEMA inspectors
- Facility walk-around
- Operator obligated to provide a copy of final NOPSEMA inspection report to HSRs

- Normally attended production facilities and MODUs – twice a year
- Multi-purpose vessels and Not normally attended facilities – opportunistic inspections
- Pipelines – every 2 or 4 years



- Inspectors consider more than 80 scope items when planning an inspection
- A number of scope items for each inspection
  - Investigation and enforcement follow-up
  - Major accident event focus (e.g. loss of containment)
  - OHS focus (e.g. noise or Confined Space Entry)
  - Topics defined in NOPSEMA Annual operating plan.

- Inspection topics decided
- Representative sample of facilities
- Prompt sheet developed by NOPSEMA subject specialists
  - consistency and comparability
- Results analysed by NOPSEMA subject specialists
- Lessons shared with industry through the *Annual Offshore Performance Report* and Safety Alerts



## Annual offshore performance report

Regulatory information about the Australian offshore petroleum industry

to 31 December 2012



- **2011– 12**
  - Ageing facilities
  - Contractor management
  - Maintenance management
  - Operator audits
- **2012– 13**
  - Control of ignition sources – Hazardous Area Equipment
  - Emergency power generation
  - Maintenance management
  - Helicopter operations

- **Ageing facilities** - represent an OHS concern if operators do not commit to systematic maintenance and repair
- **Control of ignition sources** – following a loss of containment, ignition sources escalate the scenario to the next level
- **Helicopter operations** – identified as an MAE in almost every safety case

- **Ageing Facilities**

- **Asset Integrity Management** – inadequate organisational roles, responsibilities and processes
- **Fabric maintenance and maintenance inspection scope** - delays and backlogs not risk-assessed, maintenance impacts of new materials not analysed (e.g. GRE gratings)
- **Failure to apply knowledge** – failure to incorporate analysis results into revised work plans, integrity of ‘passive fire protection’ not reviewed, no ‘corrosion under insulation’ inspection program

- **Maintenance Management**

- **Maintenance planning** – failure to assess risks of delaying work on “safety critical” equipment, deficiencies in categorising equipment as “safety critical” , incomplete population of CMMS

- **Competency assurance** – failure to check vendor competency before going offshore, some maintenance supervisors desk-bound and not supervising the worksite

- **Maintenance processes** – differences between documented maintenance management system and observed practices (e.g. inadequate job histories, separate registers for SCE outside the CMMS)

- **Helicopter Operations**
  - **Lack of helicopter refuelling procedures and training**  
uncertainty over helideck drainage system
  - **Poorly maintained AFFF systems** – checking foam levels and regular testing
  - **Lack of helicopter operations policy** - should address responsibilities, selection criteria of helicopter providers, emergency management, auditing and performance standards



- Control of Ignition Sources – Hazardous Area Equipment
- Well control equipment
- Operator audits
- Performance standards

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# Thank you



