



Preparedness for Oil Spill Incidents

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Presentation Overview

- 💧 OSRL in context
- 💧 Causes and Consequences
- 💧 Risk Assessment Process
- 💧 Industry Action
 - Reducing consequences
- 💧 Summary



Oil Spill Response Ltd. (OSRL)

1984



Heritage
Members

1993



EARL
established

1995



Management
taken over from
BP

2000



Global Alliance
formed

2005



Global
Response
Network
developed


2005



Formal merger
of OSRL &
EARL to form
OSRL/EARL

2006



Tier 3 base
set up in
Bahrain 

2007



Change of
company name
to ***Oil Spill
Response***

2010



2011



Post Macondo
(Gulf of Mexico)

A unique industry cooperative



Oil industry's Tier 3 spill response provider of choice



Wholly owned by 42 oil / energy companies



A global remit (onshore and offshore)



Industry funded and not-for-profit



A major focus on preparedness; oil spill training, planning & exercises, project support

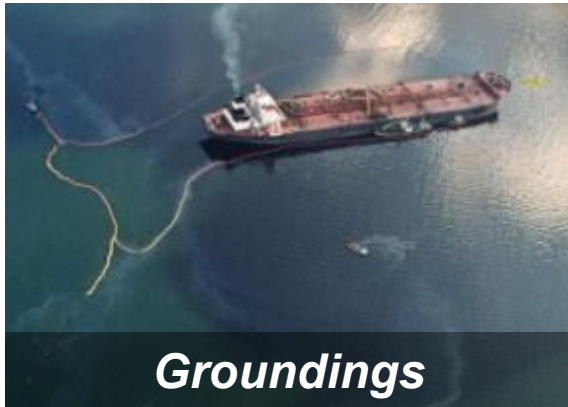


Our Mission

*To provide resources to respond to oil spills
efficiently and effectively on a global basis*



Typical Causes of Incidents



Groundings



Load / Discharge Ops



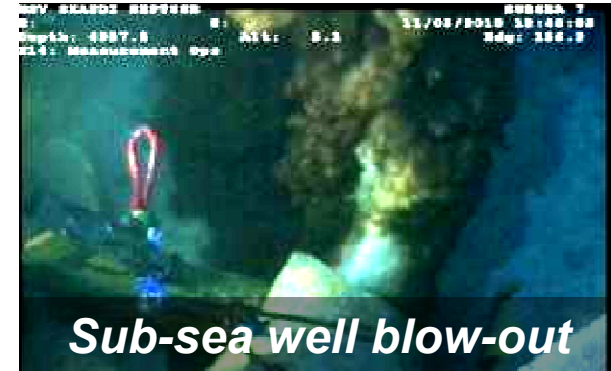
Collisions



Infrastructure Integrity



Process Failure



Sub-sea well blow-out



Hull Failure



Ship to Ship Transfers



Fire /Explosion

Typical Consequences



Environmental (Biological) Systems

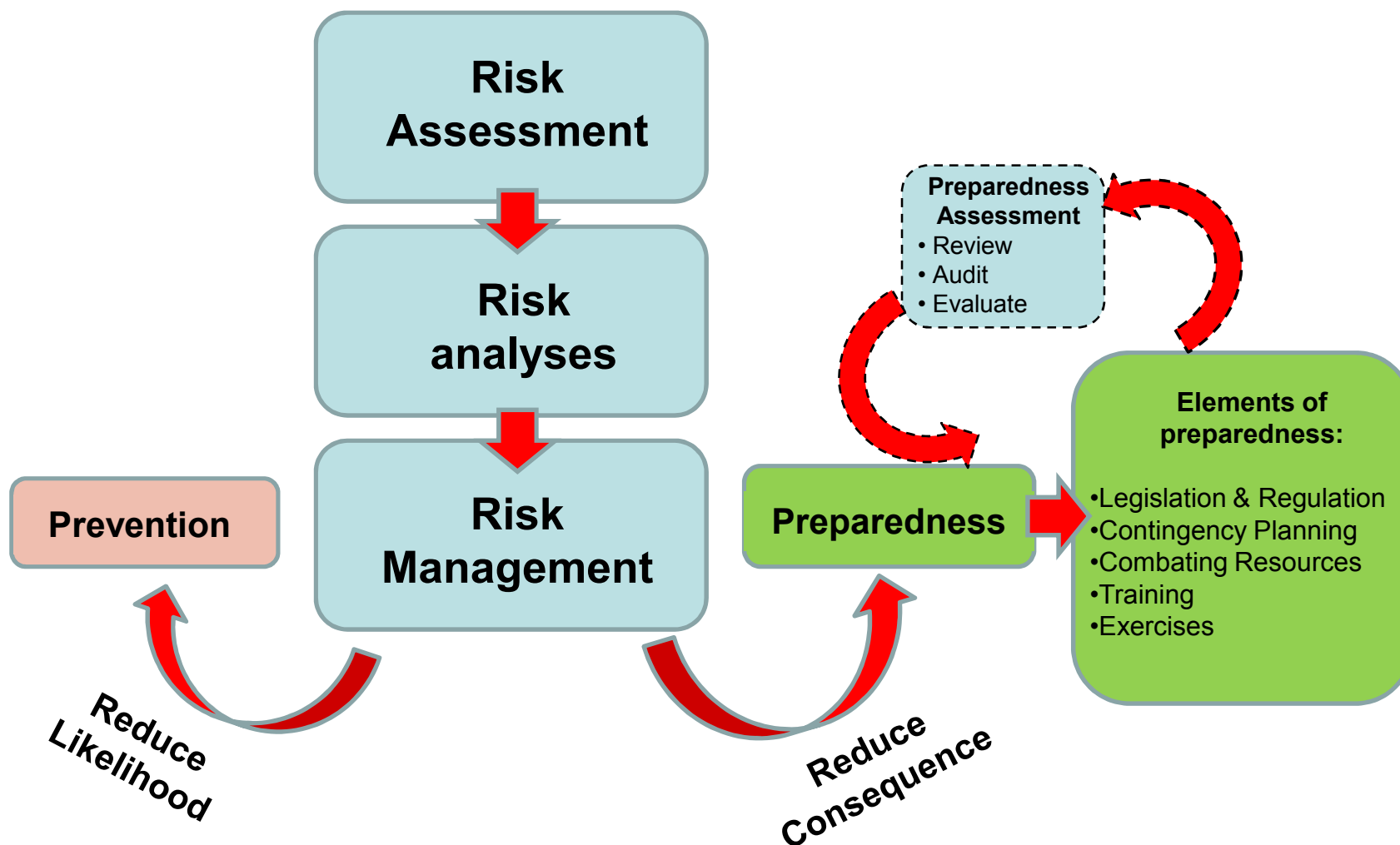


Environmental (Physical) Systems



Socio-Economic Considerations

Oil Spill Risk Evaluation Process



Reducing Likelihood

Prevention

- 💧 Improvements in facility design
- 💧 Location of facilities in areas of lower incident probability
- 💧 Robust maintenance and inspection programmes
- 💧 High quality shipping / operating standards
- 💧 Security / anti terrorism measures

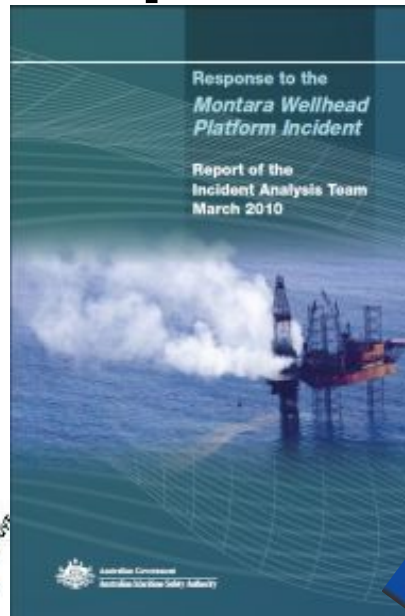
Reducing Consequence

Preparedness

- Legislation and Regulation
- Contingency Planning
- Response resources (Equipment AND people)
- Training
- Exercises



Post Macondo - Lessons, Reports and Findings



Legislation & Regulation

- 💧 Safety Case Approach

- 💧 Worst Case Scenario

- 💧 Global Approach

- 💧 Sovereignty

- 💧 Prescriptive measures

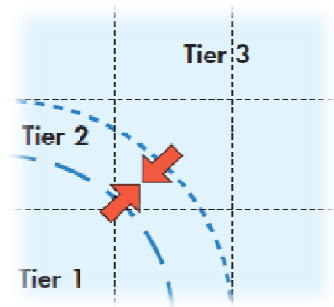
- 💧 Most Credible Scenario

- 💧 Regional Approach

- 💧 Local autonomy

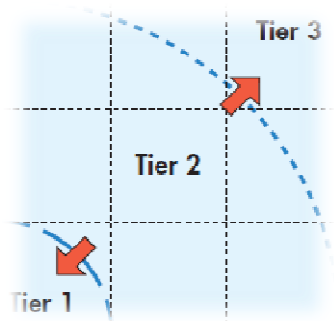


Contingency Planning and Tiered Response



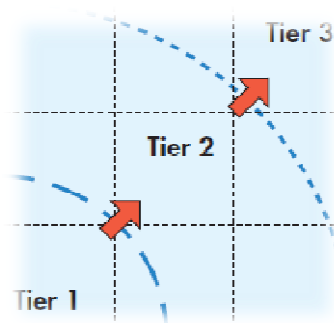
Operational factors

- Probability and frequency of a spill occurring
- Worst case scenario incidents
- Oil type



Setting factors

- Proximity to operations
- Operating conditions
- Sensitive resources at risk



Legislation

- National / Local Requirements



Available Capabilities

Equipment - Hardware

💧 Not more equipment than necessary
(Sufficient to fill gap until next Tier arrives)

- Matched with personnel numbers
- Matched with risk profile
- Able to be handled /ease of use
- Simple to maintain (access to spare parts)
- Matched with logistics / storage capability
- Matched with maintenance capability



Training

- 💧 Identify training needs:
 - Management
 - Operational / Tactical
 - Refresher
- 💧 Training Standards
 - IMO Model Courses
 - National requirements



Four Types of Exercise

- 💧 Tabletop Exercise
- 💧 Notification Exercise
- 💧 Limited Scale Exercise (e.g. Deployment)
- 💧 Full Incident Management Exercise

Principles of Exercises

- Set clear, realistic measurable objectives
- Aim is to “improve” (not to “impress”)
- Keep it simple to begin with! (do it often)
- Evaluating is as important as conducting

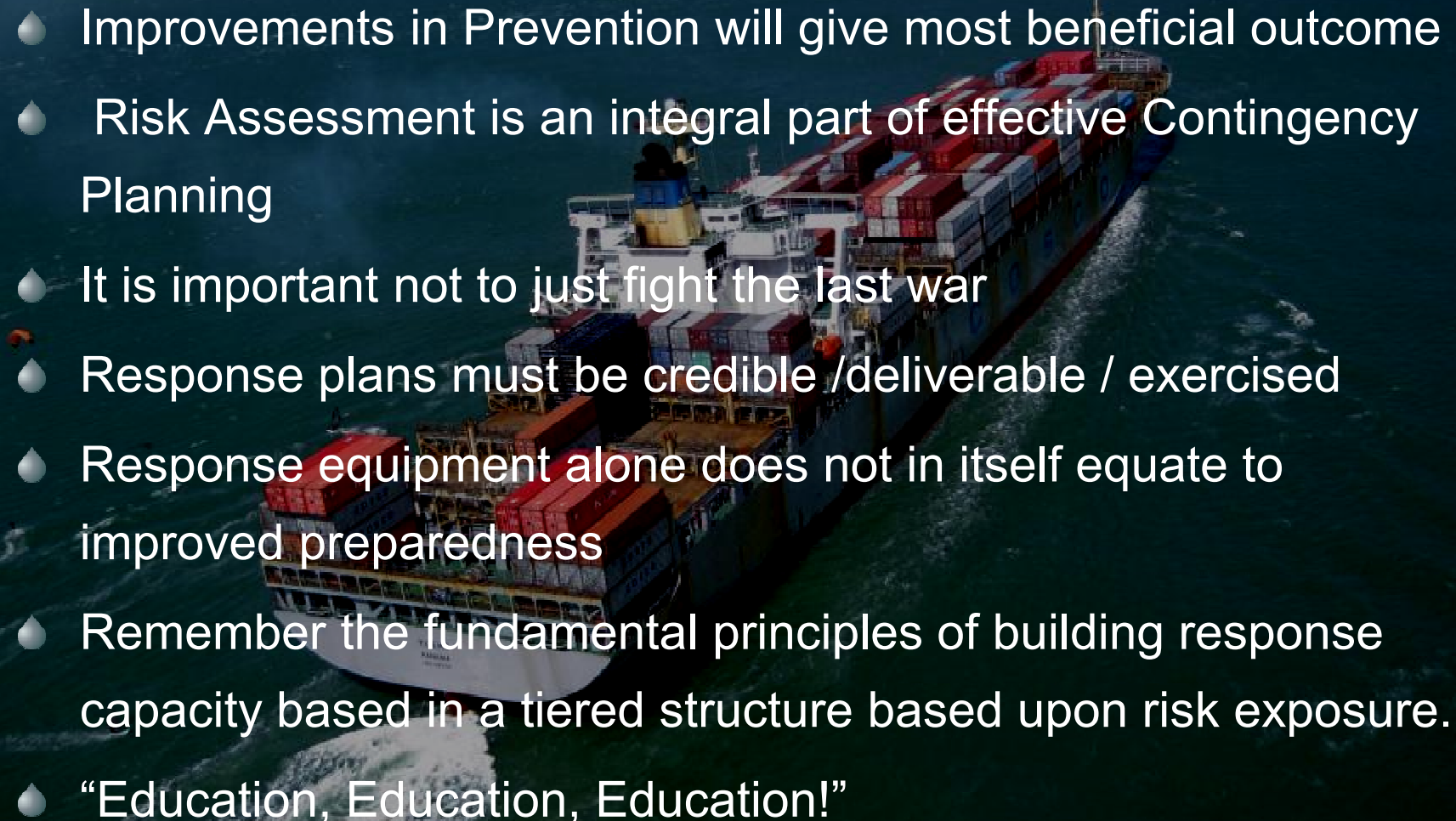


Implications for OSRL

- 💧 More Responders
- 💧 More Equipment
- 💧 More Exercises
- 💧 More Callouts
- 💧 More Preparedness Requests
- 💧 Involvement in industry special projects
 - OSPRAG Cap
 - SWRP project



Summary (truisms)

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- Improvements in Prevention will give most beneficial outcome
 - Risk Assessment is an integral part of effective Contingency Planning
 - It is important not to just fight the last war
 - Response plans must be credible / deliverable / exercised
 - Response equipment alone does not in itself equate to improved preparedness
 - Remember the fundamental principles of building response capacity based in a tiered structure based upon risk exposure.
 - “Education, Education, Education!”



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