



*Oil Spill Response*



# **Global Good Practice in Tiered Response**

*Declan O'Driscoll*

# Overview

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- 💧 OSRL Overview
- 💧 Tier 3 Principles
- 💧 Changing Risk
- 💧 Gulf of Thailand
- 💧 Enhancing Tier 3
- 💧 Tier 3 Integration



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# Overview of OSRL

# Oil Spill Response



Oil industry's  
Tier 3 spill  
response  
provider of  
choice



43 oil and  
energy  
Shareholder  
companies  
and over 120  
Associates



The only oil  
spill response  
cooperative  
with a global  
remit

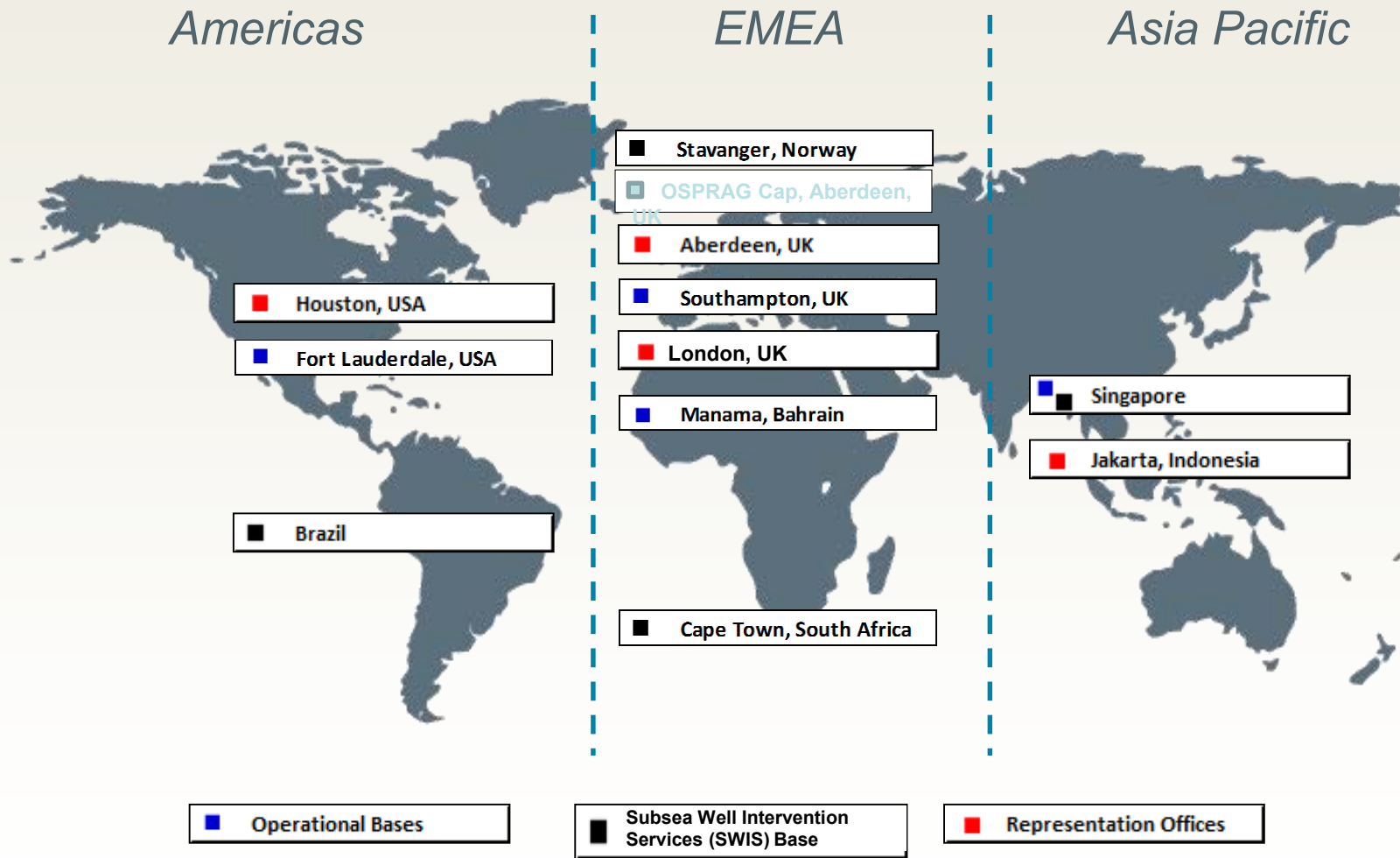


Industry  
funded



Major focus  
on  
preparedness:  
oil spill training  
/ planning and  
exercises /  
project  
support

# Our Geographical Reach





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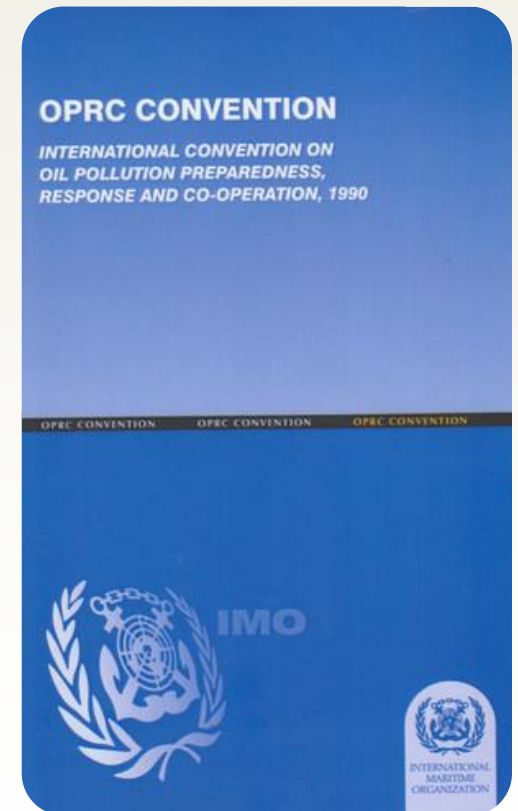


# Tiered Response Concept

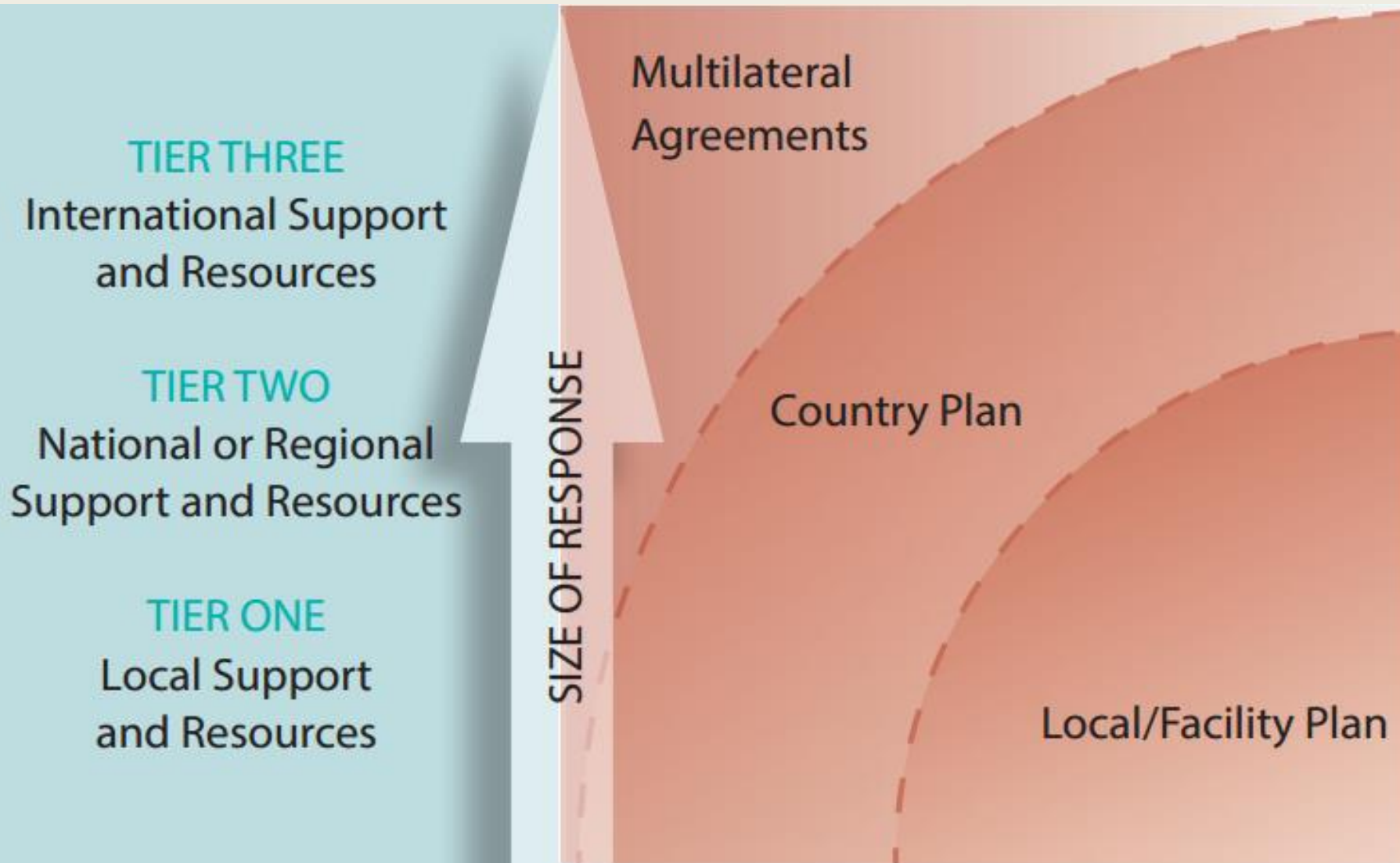
# OPRC

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- ◆ International Convention on Oil Pollution Preparedness, Response and Cooperation (OPRC)
- ◆ Entry into Force 1995
- ◆ Comprehensive framework to counter marine pollution



# Tiered Response Concept





# Key Principles

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- Tiered response concept
- Working with governments
- Dispersant as a key response strategy
- NEBA (Net Environmental Benefit Analysis)



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# Changing Risk

# *Montara and Macondo*

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## 💧 Shipping spill

- Known volume
- Known properties
- Finite size

## 💧 Upstream spill

- Constant supply of fresh oil of and, potentially, type



# Outcome of the OGP “GIRG” Process

## Prevention

Better capabilities and practice in well engineering design and well operations management

OGP Wells Expert Committee  
International Association  
of Oil & Gas Producers



## Intervention

Improved capping response in the event of an incident and to study further the need for – and feasibility of – global containment solutions

SUBSEA WELL RESPONSE PROJECT  
Oil Spill Response



## Response

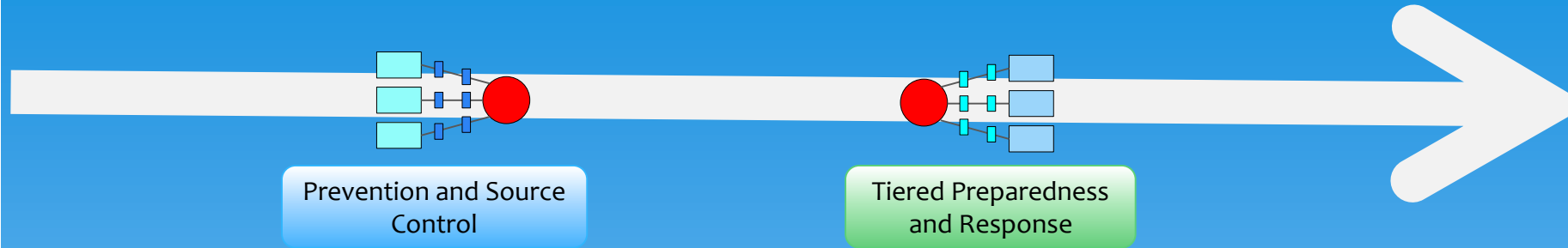
Effective and fit-for-purpose oil spill response preparedness and capability

OSR  
Oil Spill Response  
Industry Programme



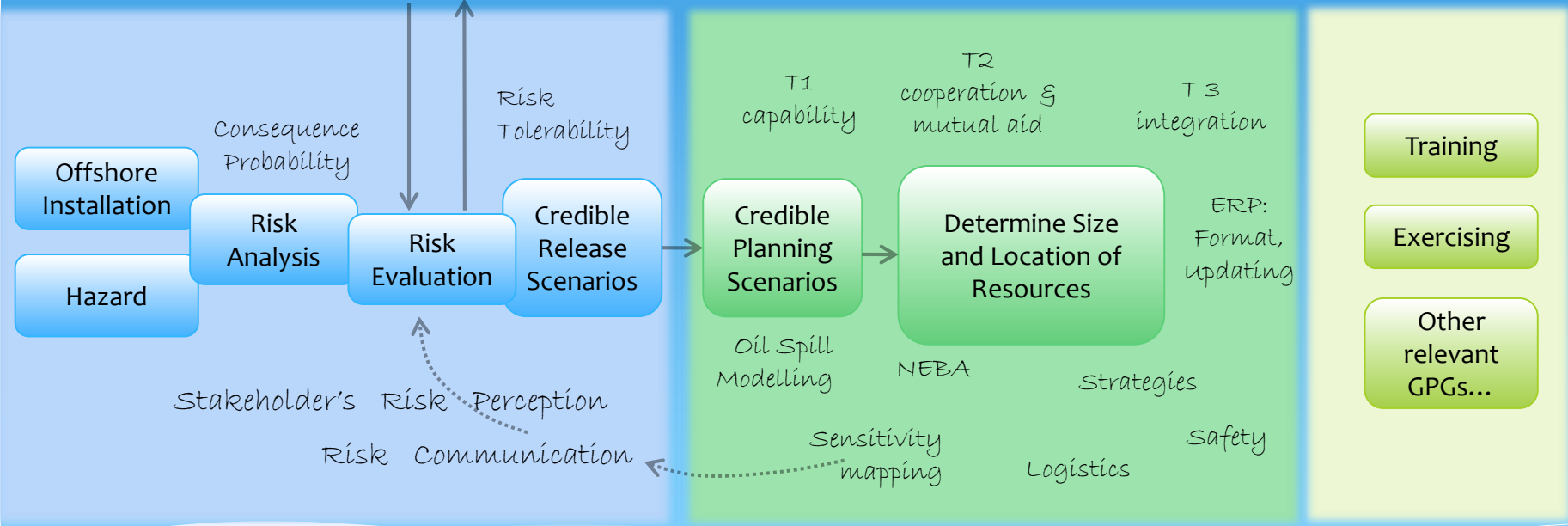
Governments, regulators, NOIAs, OSROs and industry initiatives

# JIP 6 Framework



Prevention and Source Control

Tiered Preparedness and Response



**Recommended Practice #1: Risk Assessment**

**Recommended Practice #2: Response Resource Planning**

**Good Practice Guides**

# Changing Response

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- 💧 Develop plan for ‘credible’ worst case scenarios
- 💧 Source control for loss of well containment
- 💧 Cascading of people and equipment – ‘scaling the tiers’
- 💧 Prudent over reaction until incident understood
- 💧 Use the most effective response strategy first

# Tiered Response - Challenges

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- 💧 Country support
  - 💧 Wide range of approaches to Tier 2 in region (NOC, industry, commercial)
  - 💧 Equipment resources based on shipping / shallow water
  - 💧 Personnel skills range and currency
  - 💧 Location and access to resources (geography, logistics)
  - 💧 Surveillance

# Tiered Response - Challenges

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- 💧 International support
  - 💧 OPRC Convention
    - 💧 Not approved in every country
  - 💧 Protocols
    - 💧 Preference for Tier 2 first rather than proactive Tier 3 mobilisation
    - 💧 Lack of planning – customs, visa, aerial permits
  - 💧 Dispersants
    - 💧 Variability in types approved
    - 💧 Lack of ownership



# Tiered Response Challenges

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- Regulatory
  - Experience based on shipping
  - Multiple agency involvement
  - Industry – government engagement varies across region
  - Exercises focused on demonstrating rather than assessing capability
  - Transboundary - Gov to Gov cooperation frameworks limited



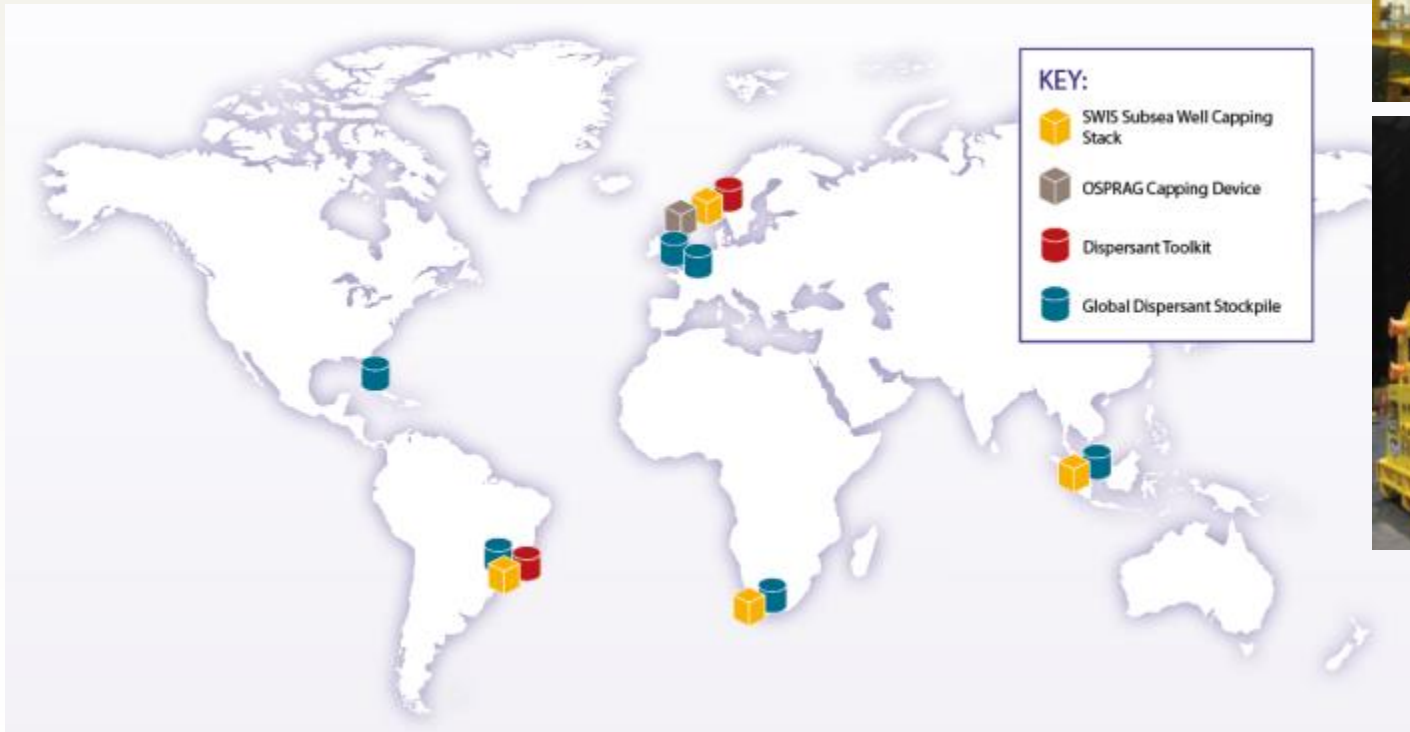
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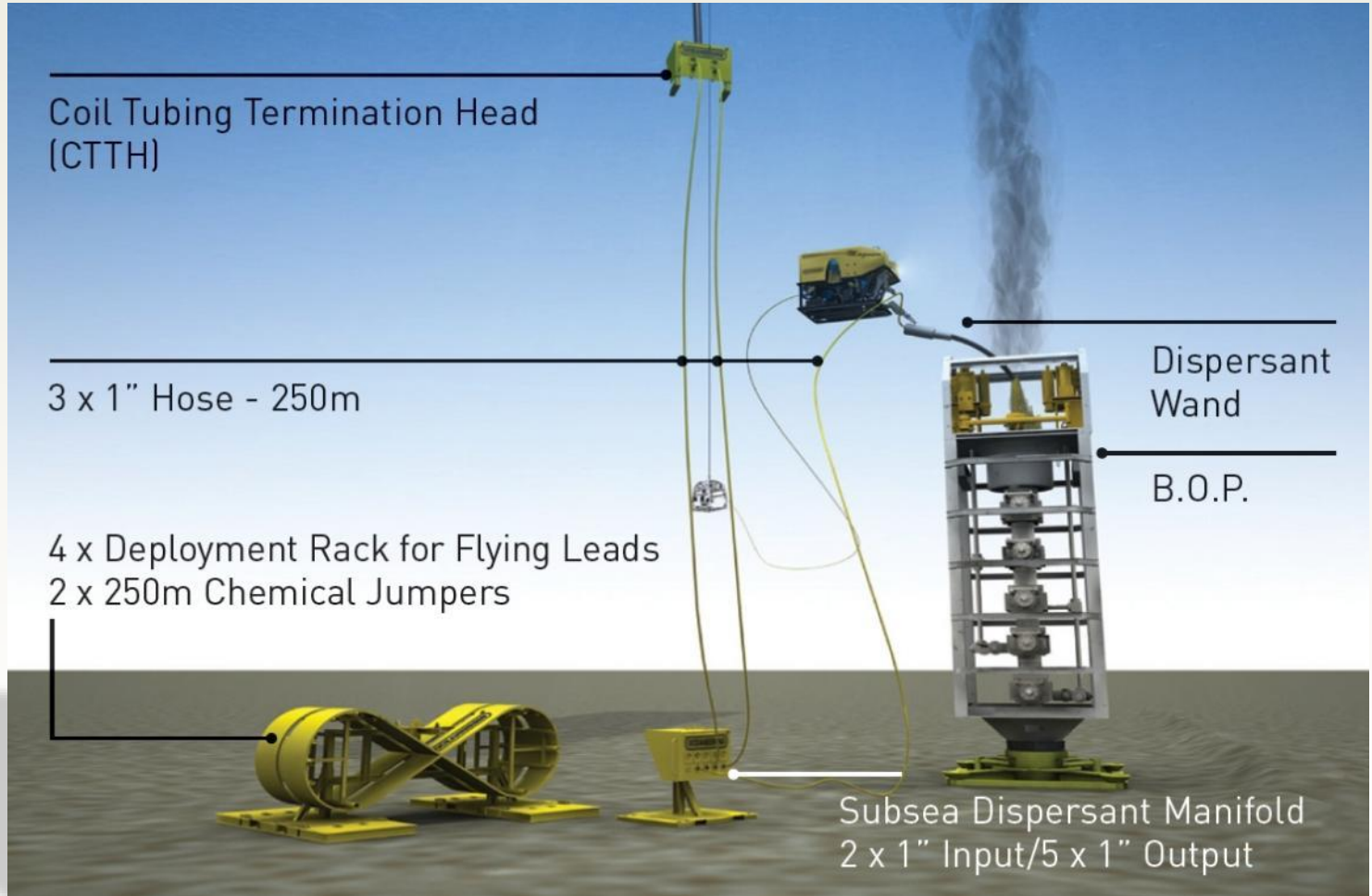
## Enhancing Tier 3

# Well Incident Intervention

- 🔹 OSPRAG (North Sea)
- 🔹 SWIS (Global)
- 🔹 Global Dispersant Stockpile



# Subsea Dispersant System



# Type, Quantity and Locations – 5000 m<sup>3</sup>

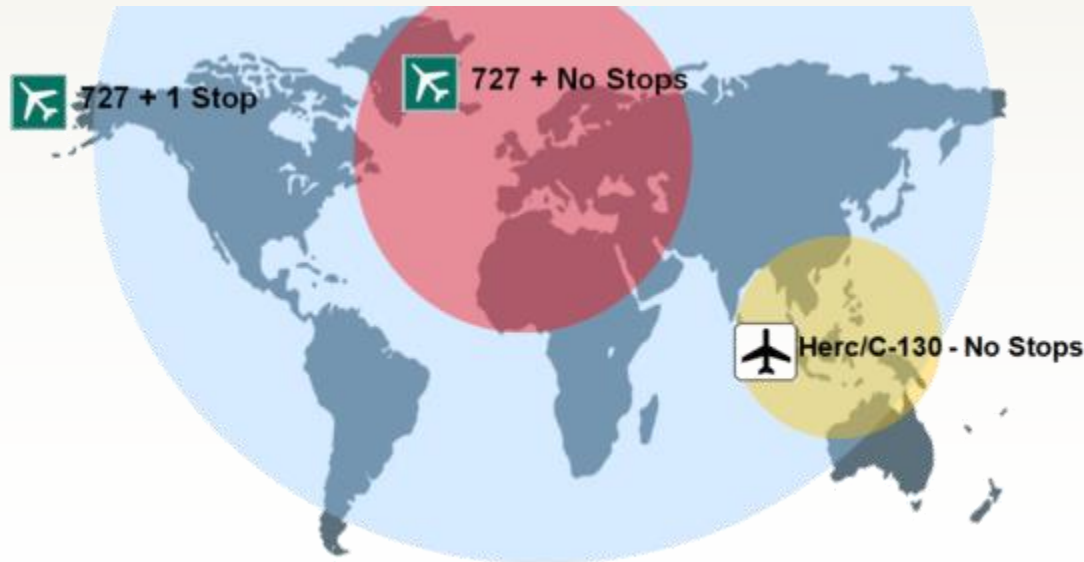
<i>Type</i>	<i>Quantity (m3)</i>	<i>Location</i>
Dasic Slickgone NS	500	OSRL Base UK Southampton
Finasol 52	500	OSRL Base UK Southampton
Finasol 52	1000	OSRL Base Singapore
Finasol 52	1500	Supplier Warehouse - Europe
Finasol 52	500	OSRL Base South Africa
Corexit EC9500A	500	Florida/Texas USA
Corexit EC9500A	500	Brazil



# Aviation Capability

## Aviation

- Enhanced aircraft cover; globally and regionally
- UK-based Boeing 727 dispersant spray system under development, due to come into service in January 2014, increasing response range and lowering response times



# Looking Forward

## ► Dispersant:

- Global delivery via B727 & C-130
  - 2 x B727 based in the EMEA
  - 1 x C-130 based in AsiaPac
- Regional Capability via
  - Continued UKCS and WACAF supplementary agreements
  - Additional regional agreements (TBC)

## ► Surveillance:

- Regional capability via
  - UKCS and WACAF supplementary agreements
  - Additional regional agreements (TBC)

## ► Logistics:

- Added options through B727 fleet
- Continued global capability through CF



# Industry Requirements

## ► Assisting decision making

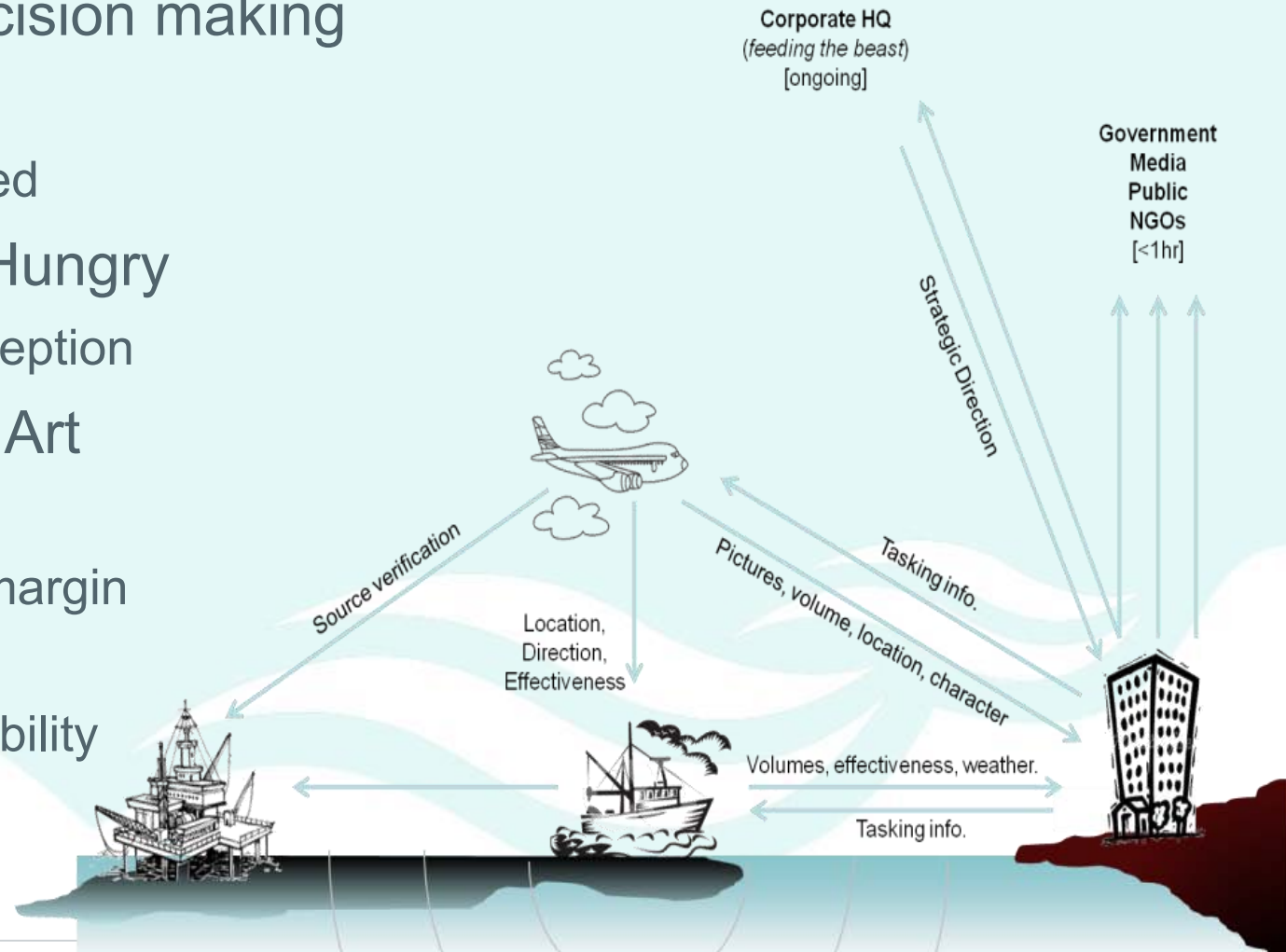
- Time critical
- Resource limited

## ► Information Hungry

- Managing perception

## ► Moving from Art to Science

- Reducing the margin of error
- Providing credibility









# The Global Response Network



<b>Operational Teams</b>	<b>Lead</b>
Offshore	MSRC
Shallow Water/Onshore	ECRC
Dispersant	OSRL
In-situ Burning	MSRC
Remote Sensing	NOFO
Ice-covered Waters	ACS
Response Management	WCMRC

 GRN Member  
 External Engagement



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## Integrating Tier 3

# GI SE Asia

## 💧 Global Initiative (GI) IMO and IPIECA

- West and Central Africa
- Caspian Sea

## 💧 GI Sea Asia

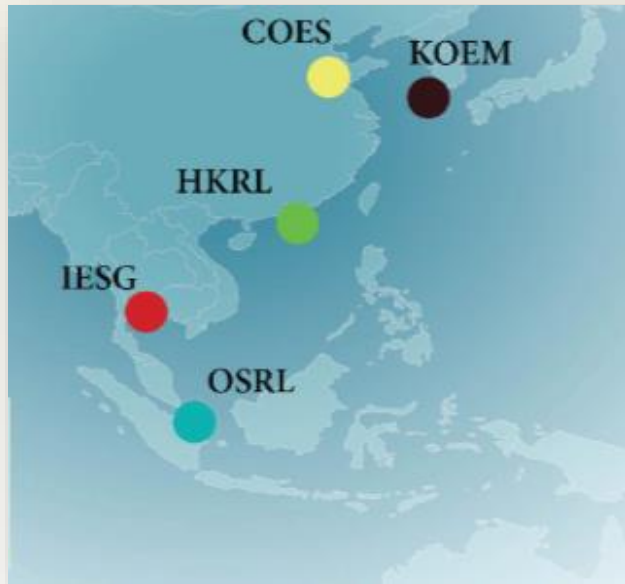
- Launched March 2013 Jakarta
- Phase 1 Indonesia, Malaysia, Thailand
- Phase 2 Other ASEAN Countries
- Focus on
  - Ratification of International Conventions
  - Strengthening existing regional agreements



# RITAG



## Regional Industry Technical Advisory Group



Initiated in 2010

Information sharing, exchanges, exercises

# AMOSC Alliance

## Mobilization

**Notification**

**Joint  
member?**

**AMOSC  
mobilize  
OSRL**

## Response

**IMT directs**

**AMOSC  
leads**

**OSRL  
supports**

## Demobilization

**Demob**

**Invoices  
through  
AMOSC**

**Debrief /  
report**

# Indonesia

*Marine Pollution Exercise with Indonesia, Philippines and Japanese Coastguards*



*Surabaya Port Authority Visit*



*GI/PIECA/SEACOM meeting*



*GISEA Launch*



2009

2010

2011

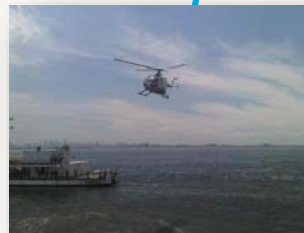
2012

2013

*PT OSRI set up in November*



*Inaugural PTOSRI Technical Forum in Jakarta*



*Indonesia Marine Pollution Exercise*  
*Indonesia Coast Guard Visit to OSRL*  
*National Response Team Workshop*





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# Discussion