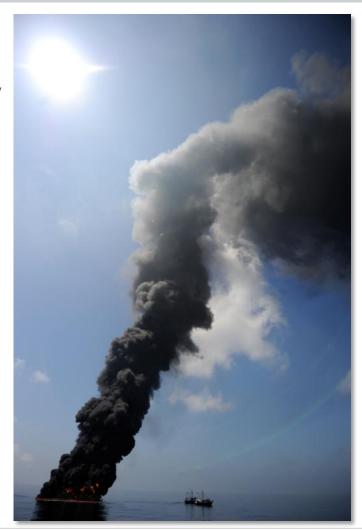




### **Session Overview**

- ▶ In Situ Burn the back story
- Structuring a solution
- **▶** Implementing ISB capability
- **▶** Global ISB capability
- ➤ Next steps / challenges



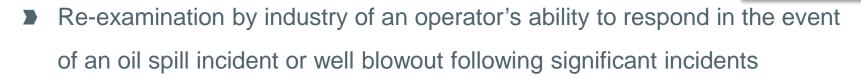


## ISB – Not A New Strategy

- Montara incident in Australia
  - 1.2M 9M bbl
  - Ongoing release 74 days
  - ISB not carried out however unintended 3 day fire suggested burning could be effective



- Gulf of Mexico (Macondo) incident
  - Estimated 4.9M bbl released.
  - Ongoing release 87 days
  - 411 burns carried out
  - 5% estimated to have been burnt = 245'000 bbl
  - Conclusions:
    - ISB can be a proven response option



■ ISB was one response option put forward for consideration



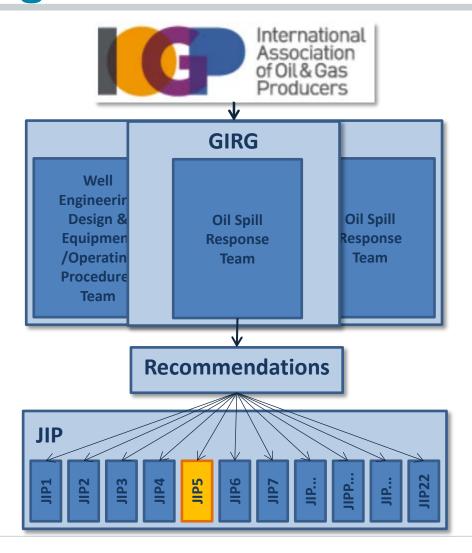
## Industry Response (official investigation)

- USA
  Oil And Gas Industry (API)
  JITF (Joint Industry Task Force)
- ▶ International
  Oil And Gas Industry (IOGP)
  GIRG (Global Industry Response Group)



# International Response – Establishing The JIP

- International Association of Oil & Gas Producers (IOGP) forms the Global Industry Response Group (GIRG)
- GIRG tasked with identifying learning opportunities on cause of and the response to Macondo and ensuring that they are applied Globally
- GIRG delivers recommendations for oil industry action.
- Recommendations addressed via a three-year Joint Industry Project (JIP)
- Maintain links with other industry Associations





## Oil Spill Response JIP Phase 1 Overview

Project	Discrete OSR Projects
JIP 5	In-Situ Burning (→ GPG)
JIP 6	Upstream Risk Assessment
JIP 7	Effective Exercises (→ GPG)
JIP 9	Tier 2 / Tier 3 Assessment
JIP 13	Responder Indemnity
JIP 15	Responder Management
JIP 17	Decanting Procedures
JIP 18	Resp. Health & Safety (→ GPG)
JIP 19	Oil Characterisation
JIP 20*	Design Global Wildlife System (Ph.2)
JIP 21*	Design Incident Mgmt. System
JIP 22*	Design Comms / Outreach Strategy

Project	Dispersant
JIP1	Dispersant Education
JIP2	Sub Sea Injection lab testing
JIP3	Dispersant Logistics
JIP4	Dispersant monitoring
JIP 14	Airborne Dispersant Platform

Project	Common Operating Picture
JIP 8,	7 work packages under common
10, 11,	theme of <u>Surveillance</u> , <u>Modelling &amp;</u>
16	Visualisation

Project	Good Practice Guides
JIP 12	(Re-)write IOGP / IPIECA Good Practice Guides (24 titles)

<sup>\* =</sup> New projects outside original scope – precursor for JIP phase 2



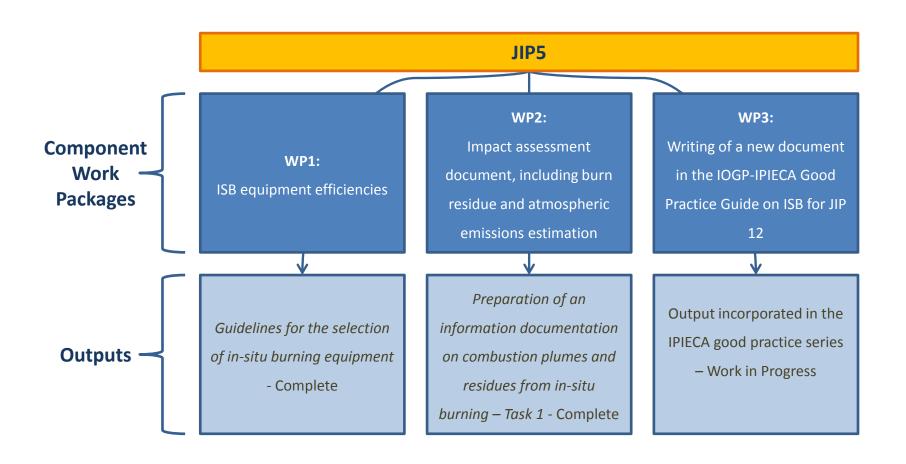
### **OSR JIP**

- Three year project (2012 2014)
- Funded by nineteen oil industry members
- Aims to improve co-ordination between the many groups working global oil spill response issues
- Develop a range of documents, global protocols and standard implementation techniques
- Managed by IPIECA on behalf of the OGP in recognition of its long-standing experience with Oil Spill Response matters





# Status Of JIP 5 – In Situ Burning





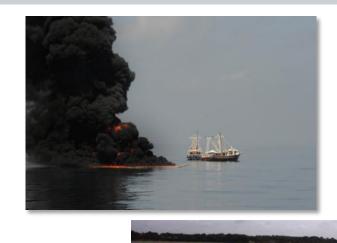
# Practical Implementation – The OSRL story

#### Practical Considerations

- Guidance Document
- Safety Plans
- Monitoring Protocol

#### Equipment – Tier 3

- 4 sets of 2<sup>nd</sup> generation Elastec
   Hydroboom purchased in 2011 (3 x
   Southampton 1 x Singapore)
- 3 sets of Elastec *Pyroboom* in Fort
   Lauderdale base





# Practical Implementation – The OSRL story

- Operational Guidance
  - Field Guide

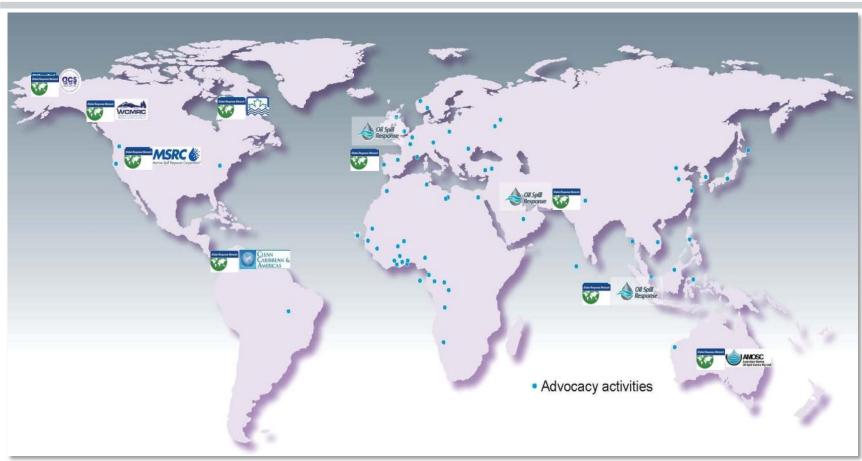


- Training
  - All operational staff trained in ISB theory and practical deployment



➤ Where possible we knowledge share, collaborate and use joint training opportunities pursued through our Global Response Network

# The Global Response Network



















# Global ISB Capability

Owner	Total Fire Boom - Metres
Alaska Clean Seas (ACS)	5,750
BP	1,500
Chevron Cabinda	305
WCMRC	150
ConocoPhillips	305
ExxonMobil	150
MSRC	6,850
Oil Spill Response Limited – Southampton	800
Oil Spill Response Limited – Singapore	400
Oil Spill Response Limited - Fort Lauderdale	455
Petrobras	1,250
Shell	305
STH Algeria	1,525
Total	19,745



## Challenges

## Regulatory

- Permissions
- JIP Documents
- Experience
  - Legacy
  - Developing skills





## **Next Steps**

#### **▶** Arctic

- An effective option
- Arctic JIP (Projects7,8 &9)



#### ▶ Continue OSRO collaboration to:

- Validate operational protocols
- Realise knowledge sharing and training opportunities



### Conclusion

- Industry remains committed to making continued progress in collaboration with a wide range of stakeholders.
- Industry looks forward to further advance Industry's prevention, containment, preparedness and response capabilities and to work closely with government agencies to achieve common objectives.







# Staying in touch

#### www.oilspillresponse.com

#### Subsea Well Intervention Service

www.swis-oilspillresponse.com subseaservices@oilspillresponse.com

#### Training courses

www.oilspillresponsetraining.com training\_uk@oilspillresponse.com training\_sg@oilspillresponse.com

#### Find us on









- www.facebook.com/OilSpillResponseLimited
- www.linkedin.com/company/oil-spill-response-ltd
- www.youtube.com/user/OilSpillResponseLtd
- www.twitter.com/oilspillexperts

Spill preparedness (Technical handbooks and other reference materials)

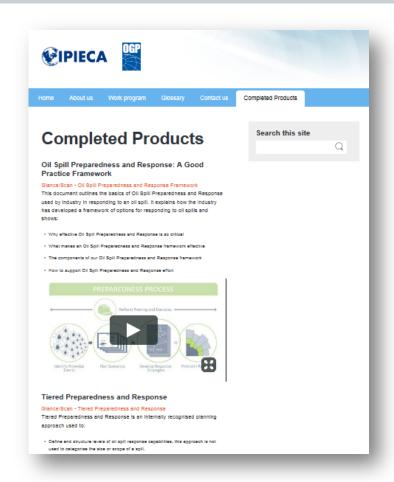
osrl.cotoco.com preparedness@oilspillresponse.com



# **Accessing JIP Outputs**

Scan / Glance material (video and ppt.)

<a href="http://oilspillresponseproject.">http://oilspillresponseproject.</a>
<a href="org/completed-products">org/completed-products</a>





#### What we do



- Training
- Consultancy
- Oil spill modelling
- Capability reviews
- Equipment hire
- Exercises and drills
- Secondments



- Technical advice
- Spill management
- Specialist personnel
- Equipment and transportation
- Aerial dispersant and monitoring systems
- Response integration



## Membership

#### **Participant Members**



46 Participant Members and over 100 Associate Members

