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Re-imagining Oil Spill Response post 2020: new challenges will require new thinking for the next decade





Advancing environmental and social performance across oil and gas

www.ipieca.org

IPIECA ---- Only global association The global oil and gas association for involving both upstream and advancing environmental and social downstream performance - 45 years of collaboration contributing to sustainable development



Our membership









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IPIECA Members

CORPORATE MEMBERS























































































ASSOCIATION MEMBERS

























































Advancing a shared industry response

to environmental and social issues

Developing, sharing and promoting good practices and solutions

Enhancing and sharing knowledge and awareness

---- Engaging the industry as a whole

---- Partnering with key stakeholders

 Pooling expertise across breadth of environmental and social issues



Principal channel of communication with the UN







United NationsFramework Convention on Climate Change





























Vision and principles

An oil and gas industry that successfully improves its operations and products to meet society's expectations for environmental and social performance





ENVIRONMENT

Conserving the natural environment is a priority to achieving sustainable development



OIL SPILL

Preparedness and response for oil spills is key to **minimizing impacts** on the environment and society



SOCIAL RESPONSIBILITY

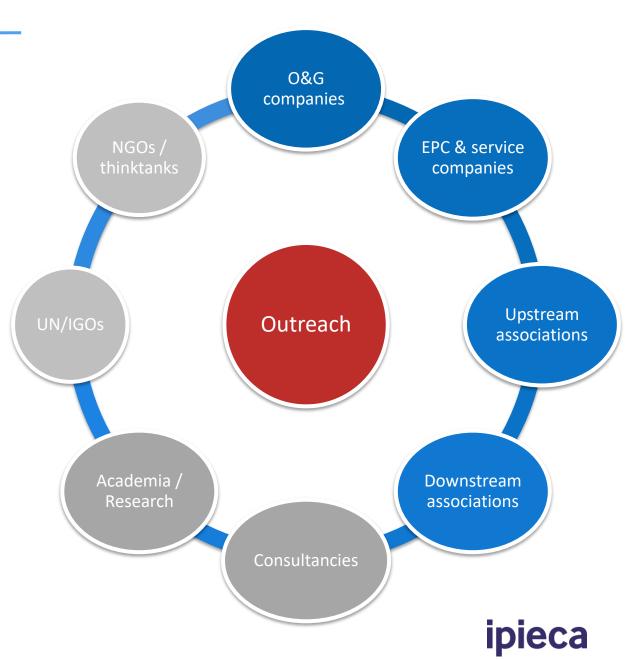
Improving social performance can have a positive impact on oil and gas operations as well as the communities in which they operate



IPIECA's work

makes a global difference

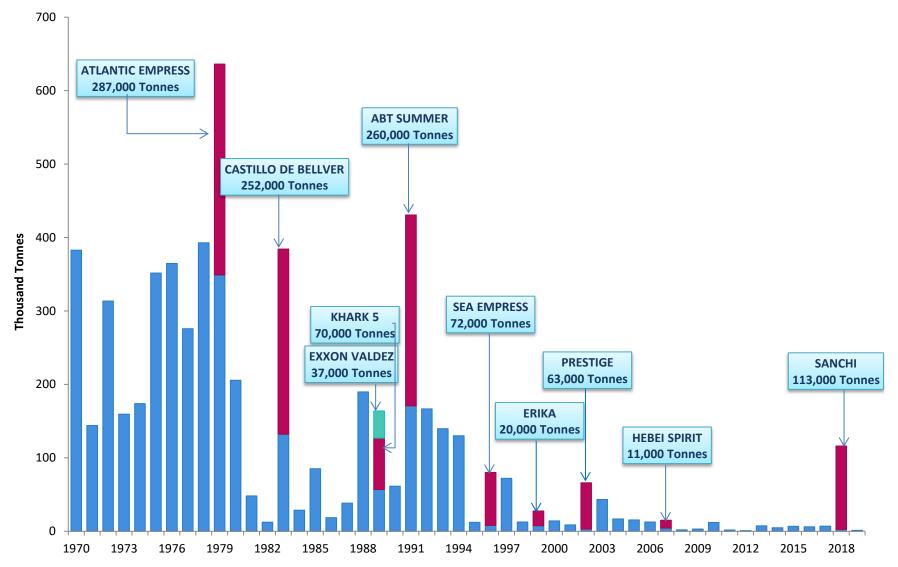




There will always be unexpected challenges...







2020: a good time to revisit the past...

Early events defined the actions needed for improvement:

- Torrey Canyon 1967
- Amoco Cadiz 1978
- Exxon Valdez 1989
- Gulf War Oil Spill 1991
- Nakhodka 1997
- Erika 1999
- Prestige 2002

The outcomes of these spills lead to:

- An incremental improvement in international cooperation through IMO/OPRC
- Additional legislation e.g. OPA 90
- Better ships with better trained crews
- A ground-breaking liability and compensation regime
- The start of a consistent decade on decade drop in spill frequency and volume

2020: a good time to revisit the past...

Sometimes it takes a seminal event to galvanize world opinion, whether it is the effects of Global Climate Change......

....or an oil spill

- Adequate Risk Assessment
- Capping & Containment
- Well intervention
- Incident Management Systems
- Tiered mobilisation....

The impact of the Macondo and Montara incidents precipitated a thorough re-evaluation of our capabilities and an understanding of the need to (re) learn what we **thought** we knew









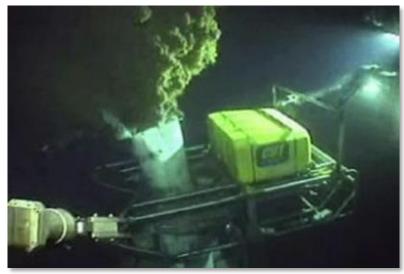
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Many new techniques were developed for Macondo – the response was huge & technically difficult









Sub-sea intervention & dispersant systems are now available around the world ...



IPIECA and IOGP: Global Industry Response Group



IOGP & IPIECA members invested millions of dollars to build new equipment and make the new techniques available to all



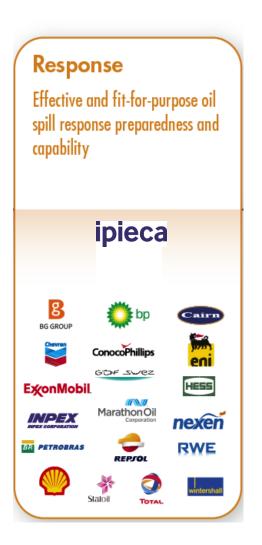
Oil Spill Response – Joint Industry Project (OSR-JIP)

5-year project (2012 – 2016):

- Lead by IPIECA
- 19 oil spill related recommendations
- 19 participants

Key areas:

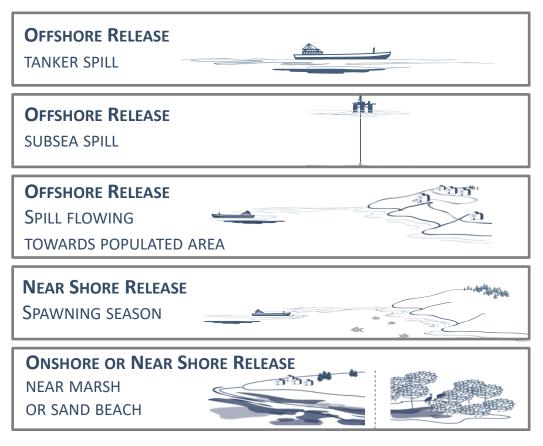
- Oil spill preparedness & response framework
- Response techniques
- Stakeholder engagement and communications





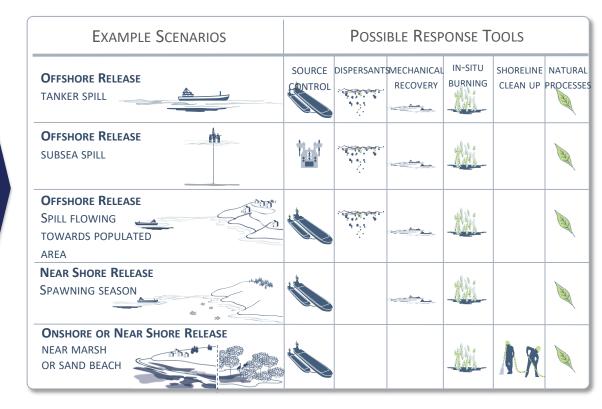
1. Start with risk assessment to develop plan scenarios

Example scenarios:





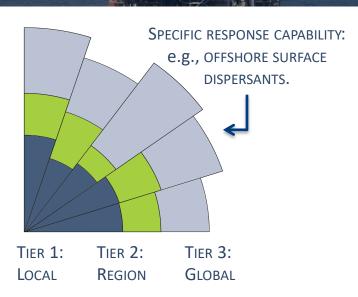
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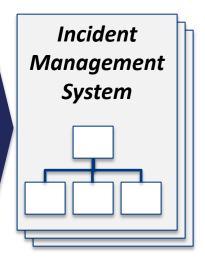
3. Work out what resources will be local, regional, global (Tiered Response)



- Decide optimal resource location in advance:
 - Local
 - Regional
 - Global
- Avoid unnecessary duplication



- 1. Start with risk assessment to develop plan scenarios
- 2. Develop response strategies using Spill Impact Mitigation Assessment (SIMA)
- 3. Work out what resources will be local, regional, global (Tiered Response)
- 4. Train
 everyone in a
 single *Incident Management System (IMS)*



"Incident Management System for the Oil and Gas Industry"

- Based on Incident Command System (ICS) with common:
 - Organizational groups
 - Management structure
 - Documents & terminology
 - Operating procedures
- Response scale-up & integration into a single unified structure





- 1. Start with risk assessment to develop plan scenarios
- 2. Develop response strategies using Spill Impact Mitigation Assessment (SIMA)
- 3. Work out what resources will be local, regional, global (Tiered Response)
- 4. Train
 everyone in a
 single *Incident Management System (IMS)*
- 5. Use the Guidance we have produced for you



Use the new guidance on oil spill response tools

Dispersants

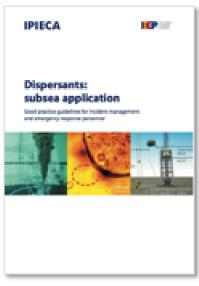
- *Dispersants* allow *rapid response offshore*, to protect important coastal areas
- Sub-sea dispersant injection proved highly effective in the Macondo incident
- Selection, testing, supply, & fate/effects of dispersants are detailed in new guidance
- Regulatory approval & authorisation guide











Use the new guidance on oil spill response tools

In-situ burning

- When & how to apply?
- Equipment design & selection:
 - Fire resistant boom
 - -Ignition systems
- Operating considerations
- Monitoring





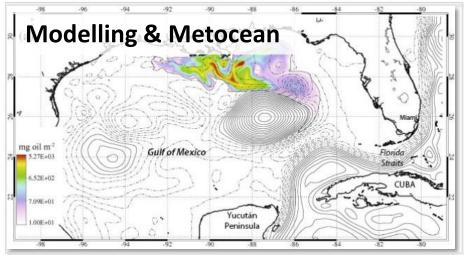




Use the new guidance on oil spill response tools: 10 Technical Support Documents supplement the 24 Good Practice Guidance publications









Looking back: the lessons we've learned over the last two decades

1. Think risk-based scenarios: they are the starting point

2. Use NEBA/SIMA based response strategies

3. Plan using tiered response – local, regional, global

4. Align on a single common Incident Management System

5. Know and use the latest oil spill response tools

Looking forward: the 6th lesson:

6. Involve

Stakeholders from the beginning (regulators, community)



2020: new challenges ahead



Volunteer Management Challenges

- Communities increasingly "in touch" with local environment
- Expectation that they will be consulted and participate in clean-up
- "Volunteers of Opportunity" can be useful, but require training
- If badly handled, reputational damage will likely result

IPIECA has produced a Volunteer

Management Technical Support Document
with two case studies



M.V. Cosco Busan, California, 2007



M.V. Rena, New Zealand, 2011



2020: new challenges ahead



- Reputation management is important
- Social media can shape and control a company's message during a crisis and needs to be handled well through active management
- If messages are not "on-point" and practiced other stakeholders will supply the message and this can damage reputation and affect stock price and brand value
- Regulators are a stakeholder too! During an oil spill, the public demands to know not only what the company is doing to clean up an oil spill but also the regulator.
- Macondo showed that joint efforts to provide information can help both parties demonstrate a collaborative effort to minimize environmental damage

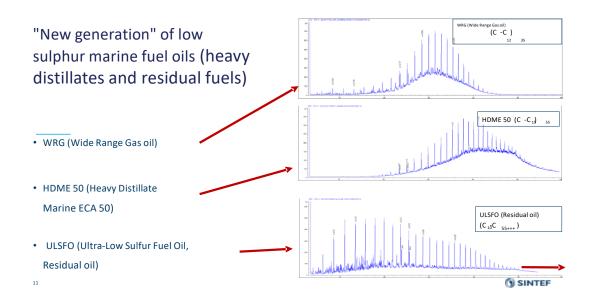


2020: new challenges ahead



Technical Challenges

• The imposition of the new Bunker Sulphur rule at IMO has led to widespread re-formulation bunker fuels; the types of oil that can be spilled is changing:



- Expected to be more paraffinic/waxy with higher pour points
- This will likely affect clean-up strategies



IPIECA Oil Spill 2020 work programme

Build & share knowledge





Good practices & tools



Engagements & dialogues



res	oreline ponse gramme	Oil spill response to low-Sulphur marine fuels	Response infrastructure in remote areas	Situational awareness strategic guide	Dispersants communication	International Oil Spill Conference
	pill 2021 Inning	Global Initiative in new region	Review & update existing good practice guides	'Oil spill preparedness and response: An introduction' translations	Promotion of industry good practices	Technical advocacy
socia durir	naging al issues ng crisis ponse				Global Initiative	



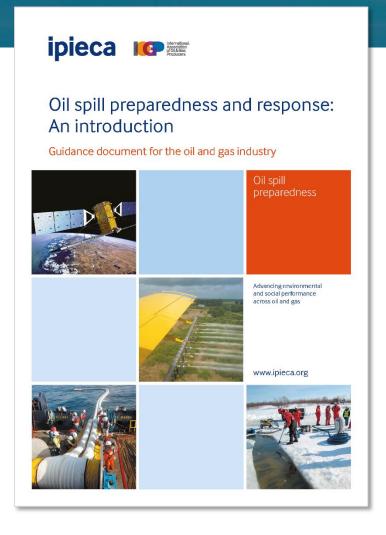
Technical stewardship: developing good practice



Resources

- http://www.ipieca.org/resources/
- https://www.iogp.org/bookstore/



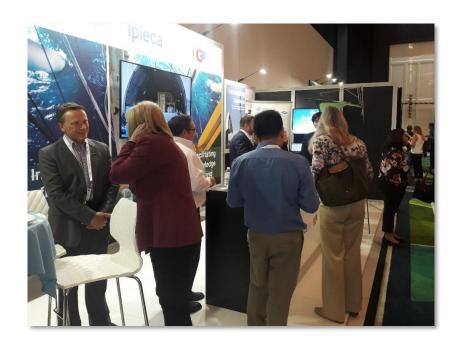




Comms & outreach: triennial conference series

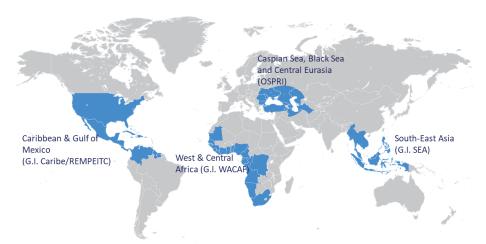
Outreach: Support the triennial oil spill conference series

- **Spillcon**, Perth Australia, 2019
- International Oil Spill Conference,
 New Orleans, USA, 2020
- Interspill, Amsterdam, Netherlands, 2021



Working in Partnership: The Global Initiative

- Extraordinary success working together to improve oil spill preparedness and response in many regions of the world
- In excess of 200 workshops over a combined 35 years of experience of building capacity in 43 countries since 1996
- One third of all maritime states covered by an IMO/IPIECA regional programme









Conclusion: Getting information and support: IPIECA can help



- The South East Asia G.I. program provides a platform for stakeholders to come together and assist ASEAN Member States and industry build OSR capacity
- GISEA has played a significant role in enabling the adoption of the ASEAN MoU and more recently, the Regional Oil Spill Contingency Plan (ROSCP) which provides the mechanism for regional cooperation and mutual assistance including support for the ratification of OPRC across ASEAN

2019 activities:

- 1 Regional Workshop on regional Oil Spill Contingency Planning
- 1 Sub-regional 'Train-the-Trainer' Workshop on OPRC Model Courses
- 3 National Workshops on Oil Spill Contingency Planning in various countries





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