

IPIECA

20 years since
Nakhodka: how
partnerships have
changed the way we
respond

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Executive Director, IPIECA

PAJ Symposium, Tokyo
February 2017



THE GLOBAL OIL AND GAS
INDUSTRY ASSOCIATION
FOR ENVIRONMENTAL
AND SOCIAL ISSUES

www.ipieca.org

■ What does IPIECA do?

IPIECA helps the oil and gas industry improve its environmental and social performance by:

- Developing, sharing and promoting good practices and solutions
- Enhancing and communicating knowledge and understanding
- Engaging members and others in the industry
- Working in partnership with key stakeholders
- Pooling expertise across the range of environmental and social issues

IPIECA is the industry's principal channel of communication with the United Nations.



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■ IPIECA's Strategic Themes

CLIMATE & ENERGY

Oil and gas industry's role in meeting the world's growing energy needs and addressing climate change risks



ENVIRONMENT

Oil and gas industry responding to environmental challenges through risk management and innovation



SOCIAL

Maximising the oil and gas industry's contribution to social and economic development



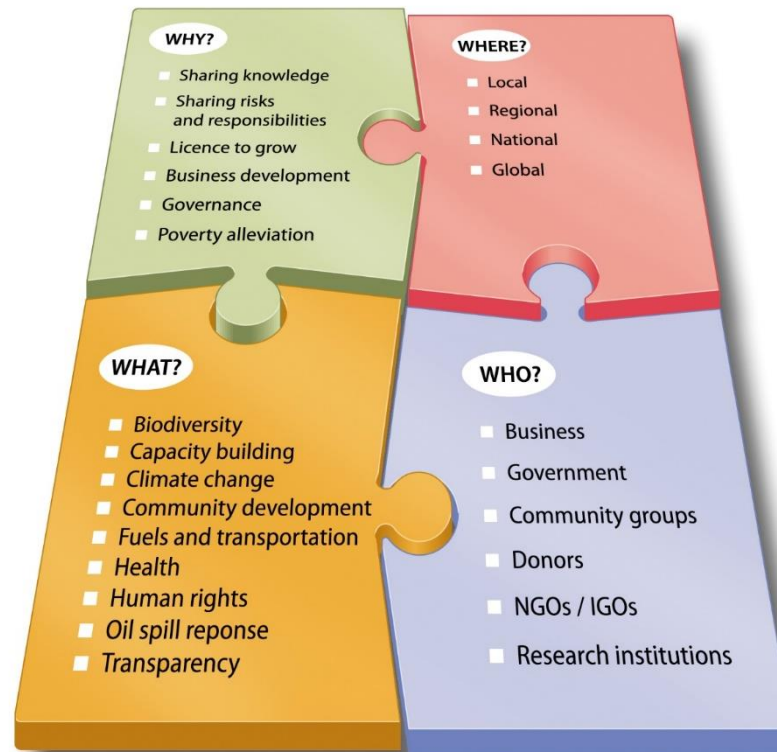
IPIECA members



■ Content of this presentation

- The characteristics of partnerships
- An overview of four partnerships that have changed the way industry prepares for and responds to oil spills
 - The IMO-IPIECA Global Initiative (G.I.)
 - The Global Response Network (GRN)
 - The Global Oiled Wildlife Response System (GOWRS)
 - The IPIECA – IOGP Joint Industry project
- Key contributions of these partnerships to oil spill planning, prevention, and response since Nakhodka
- Next steps: the road ahead
- Conclusion

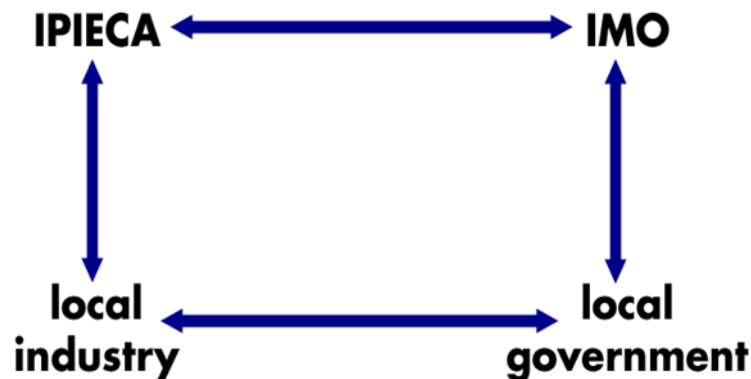
■ Partnerships are multi-faceted



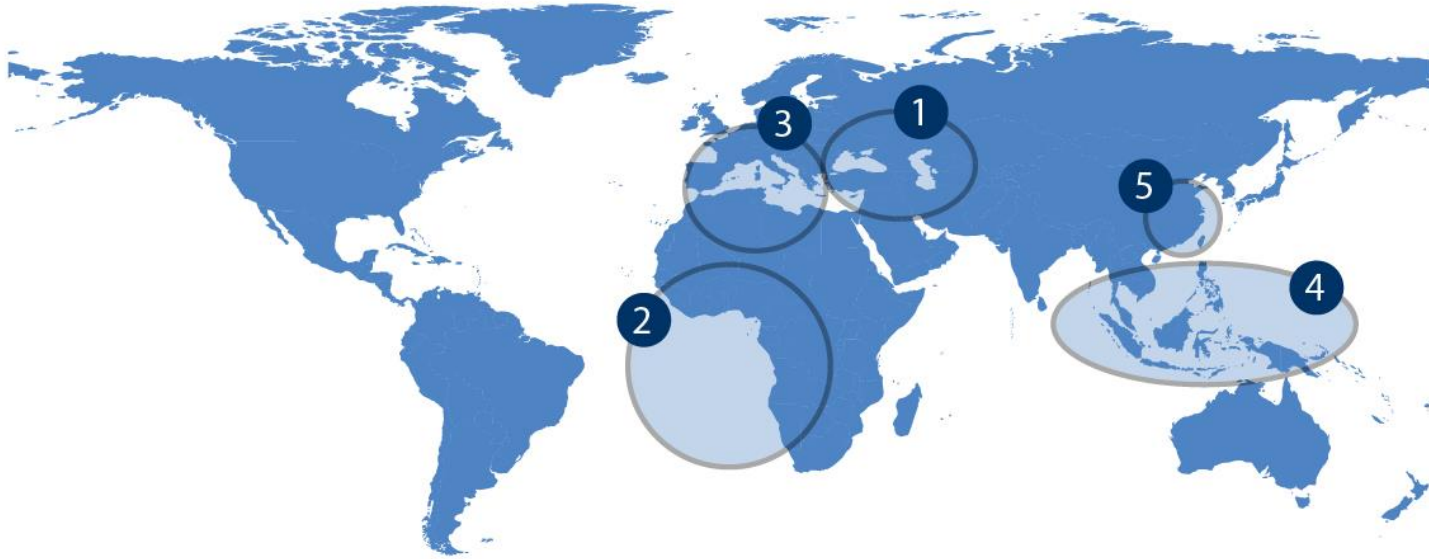
■ Overview 1: the Global Initiative

The IMO/IPIECA Global Initiative (GI) aims to:

- Assist countries in developing a national structure for oil spill preparedness and response
- Encourage ratification and implementation of relevant IMO Conventions
- Catalyze local ownership by industry and government
- Stems from the Oil Pollution Response and Cooperation (OPRC) Convention (1990) which calls for regulatory authorities to work with the oil and shipping industry to develop global oil spill response capability



■ Regional model for cooperative programmes



Key:

1. Black Sea, Caspian Sea and Central Eurasia (OSPRI)
2. West, Central and Southern Africa (GI WACAF)
3. Mediterranean (Cooperation with REMPEC)
4. South East Asia (GI SEA)
5. China (GI China – work with China MSA)

- Overview 2: the Global Response Network

Global Response Network

The Global Response Network (GRN) exists to share information, improve spill response performance and provide centres of expertise in spill preparedness, response and recovery techniques



■ Overview 3: The IPIECA-IOGP OSR-JIP

Prevention

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

IOGP 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

MUTUAL ID **OSR**
Oil Spill Response Industry Programme

Governments, regulators, NOIAs, OSROs and industry initiatives

- Key themes and deliverables in the OSR-JIP
 - Paradigm shift towards use of most effective tools
 - Education, communication materials, external influence
 - Promoting use of all tools, ideally on a pre approved basis
 - Assessing and demonstrating current industry capabilities and priorities for improvement
 - Complete refresh of Industry ‘Good Practice Guides’
 - Development of “scan/glance” materials for key topics

Significant work with IOPER

We continue to work with the International Offshore Petroleum Environmental Regulators .. yet another partnership!

Joint meetings, Interspillage conference session, inclusion in Australian workshop, meetings with CNLOPB, BSEE, DECC etc..



**International Offshore Petroleum
Environmental Regulators**



Environmental
Protection Authority
Te Mana Rauhi Tāiao



anp



NOPSEMA



NORWEGIAN
ENVIRONMENT
AGENCY



CANADA NEWFOUNDLAND & LABRADOR
CNLOPB
OFFSHORE PETROLEUM BOARD



CNSOPB



Department
of Energy &
Climate Change



BSEE
Bureau of Safety and
Environmental Enforcement



ASEA
AGENCIA DE SEGURIDAD,
ENERGÍA Y AMBIENTE



BOEM
BUREAU OF OCEAN ENERGY MANAGEMENT

- Overview 4: Global Oiled Wildlife Response



Photo credit: AP/Charlie Riedel

The differences between OSR and OWR

Oil Spill Response

- Agreed standards, concepts
- Established courses
- Science (R&D)
- Plans, response capacity
- Exercises/drills



Wildlife Response

- Not recognized for many years
- No agreed standards
- Expertise lies with a few NGOs
- Links between gov., industry and NGO's often missing
- "Science" is not recognised
- Planning is lagging behind



■ GOWRS project background



- Long time relationships
- Co-operation at many spills
- Regular exchanges on good practices
- Industry in need of a system
- 2015-2016: define and build the system



OPVANGCENTRUM
VOGELS & WILDE DIEREN
OOSTENDE



INTERNATIONAL
BIRD RESCUE
EVERY BIRD MATTERS



Aiuká
Consultoria em Soluções Ambientais



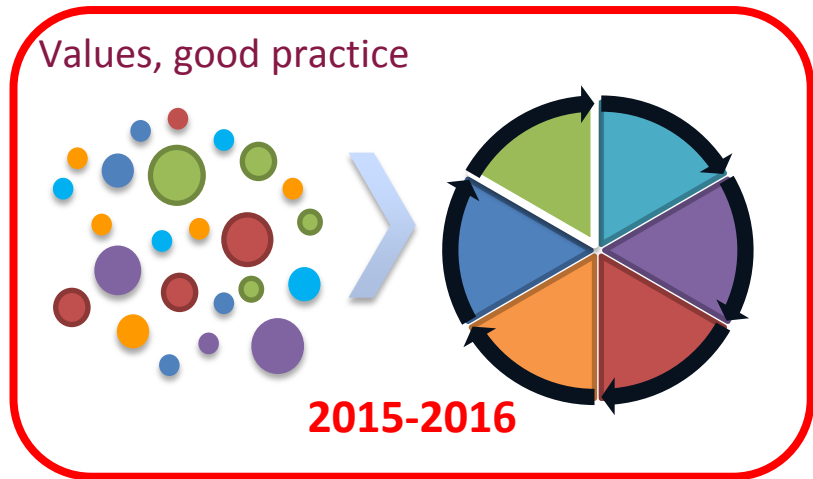
SANCCOB™
saves seabirds



Oiled Wildlife Care Network
UC Davis Wildlife Health Center



2/7/2017



Joint Industry Project: OSR-JIP GOWRS Support

Funders:

BP
Chevron
ConocoPhillips
Eni
ExxonMobil
Hess
Marathon
Petrobras
REPSOL
Shell
Statoil
Wintershall



Project Partners:

SEA ALARM (Project Manager)



IPIECA

■ Global Oiled Wildlife Response Service



GLOBAL NETWORK
OF EXPERTS

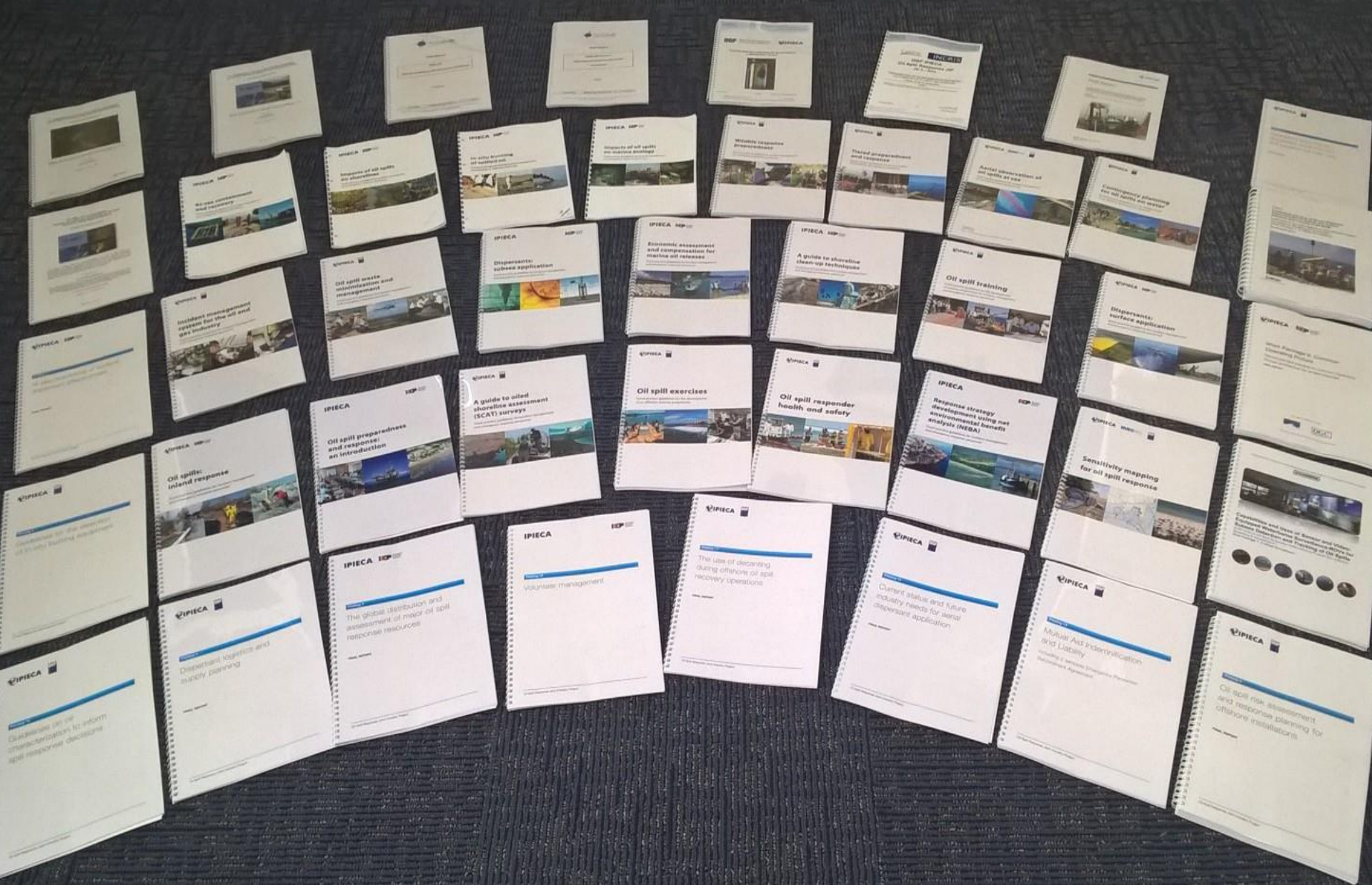


TAILORED & COORDINATED
RESPONSE ASSISTANCE

PROJECT 2015-2016

- Governance
- Standard Operational Procedure
- Response standards
- Readiness

- Since Nakhodka these partnerships have delivered:
 - Planning and auditing strategies for preparedness and capability assessments
 - A new spill impact assessment system (SIMA) to replace NEBA
 - Volunteer management good practices for community responses
 - A workable incident management system capable of a scaling to global response....
 -and much more:



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Guidelines on the use of...
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IPIECA
Oil spills: Inland response
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Dispersant, logistics and supply planning
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The global distribution and assessment of major oil spill response resources
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Voyage management
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The use of decanting during offshore oil spill recovery operations
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Current status and future industry needs for aerial dispersant application
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Mutual Aid Identification and Liability
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IPIECA
Oil spill risk assessment and response planning for offshore installations
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IPIECA
Incident management system for the oil and gas industry
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IPIECA
Oil spill waste minimization and management
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A guide to oiled shoreline assessment (SCAT) surveys
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Dispersants: subsea application
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Oil spill exercises
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Oil spill responder health and safety
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Response strategy development using net analysis (NEGA)
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Sensitivity mapping for oil spill response
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Capabilities and Uses of Remote and Other...
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Oil spill containment and response
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Impacts of oil spills on shorelines
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Oil spill burning of surface oil
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Impacts of oil spills on marine biology
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Mobile response dispensing
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Towed preparation and recovery
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Aerial observation of oil spills at sea
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Contingency planning for oil spills at sea
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Oil spill response...
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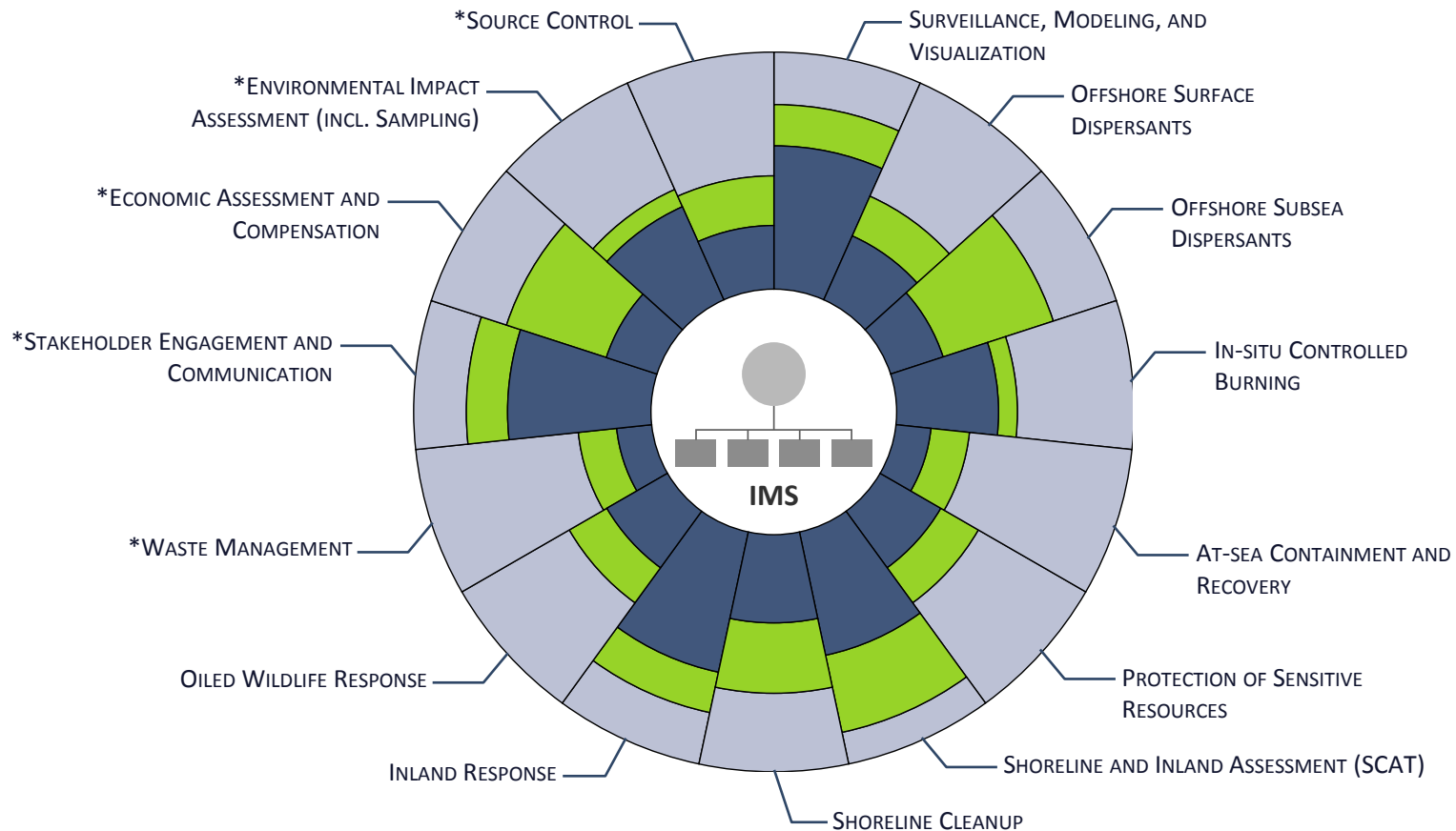
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Oil spill response...
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Oil spill response...
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Capabilities of Tiered Preparedness & Response

The following 15 capabilities essentially represent the scope of Tiered Preparedness and Response:



Type of Equipment	Equipment measured to Date	Amount of equipment left in global stocks
Booms, Shoreline (in meters)	6,900	7,450
Booms, Offshore (in meters)	2,300	4,200
Skimmers, Offshore and Shoreline (units)	0	153 (on order)
Aerial Dispersant Spreading Capability	1	<ul style="list-style-type: none"> 1 x Hercules aircraft 4 x Aerial Dispersant Systems for Hercules 11 x UH-1H's aerial with spraying capacity 1 x EC-130P aircraft 10 other aircraft
Dispersants	0	
Vessel mounted dispersant spraying capability	2	11
Flotationers (for monitoring the effectiveness of dispersant spraying)	2	1

Oil Containment & Recovery Data



Location and Status of Response Assets



Procurement Status



Spend & Payment Tracking



Claims and Recovery



Resource ETA & Capability

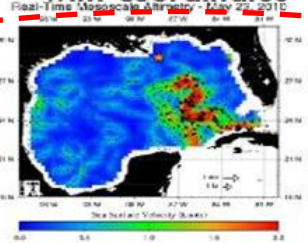


Aerial Surveillance & Control

ROV Data & Imagery



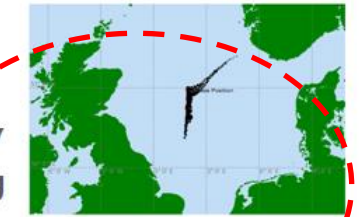
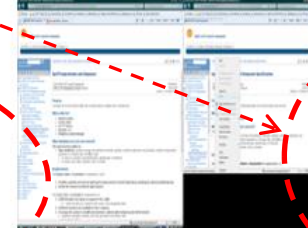
Satellite Imagery with Coordinates



GeoSpatial COP

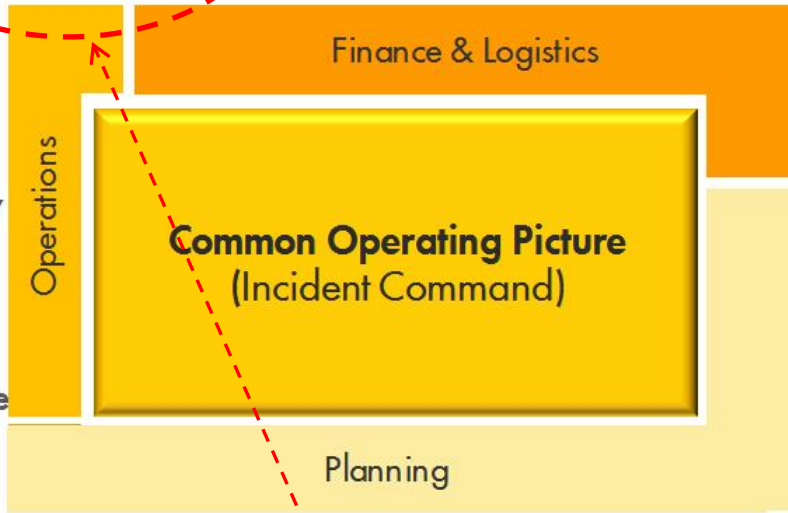


Situation Status Reports

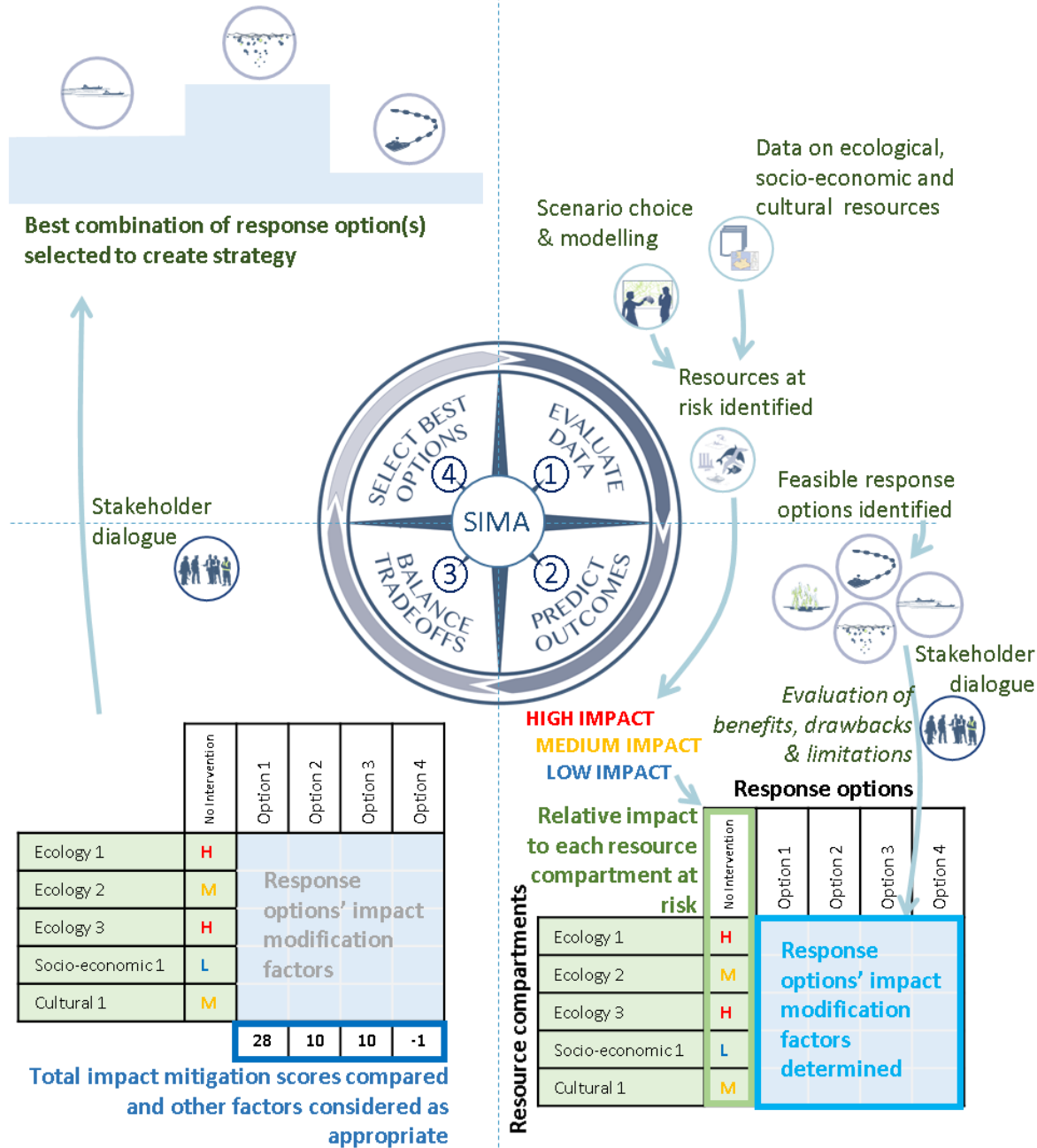


Spill Trajectory Modelling

Sensitive Areas Protection Plan



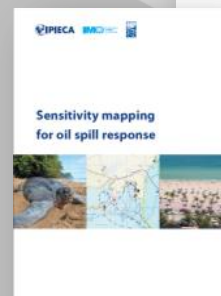
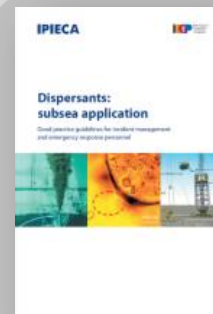
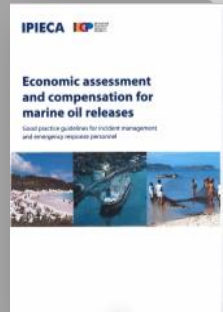
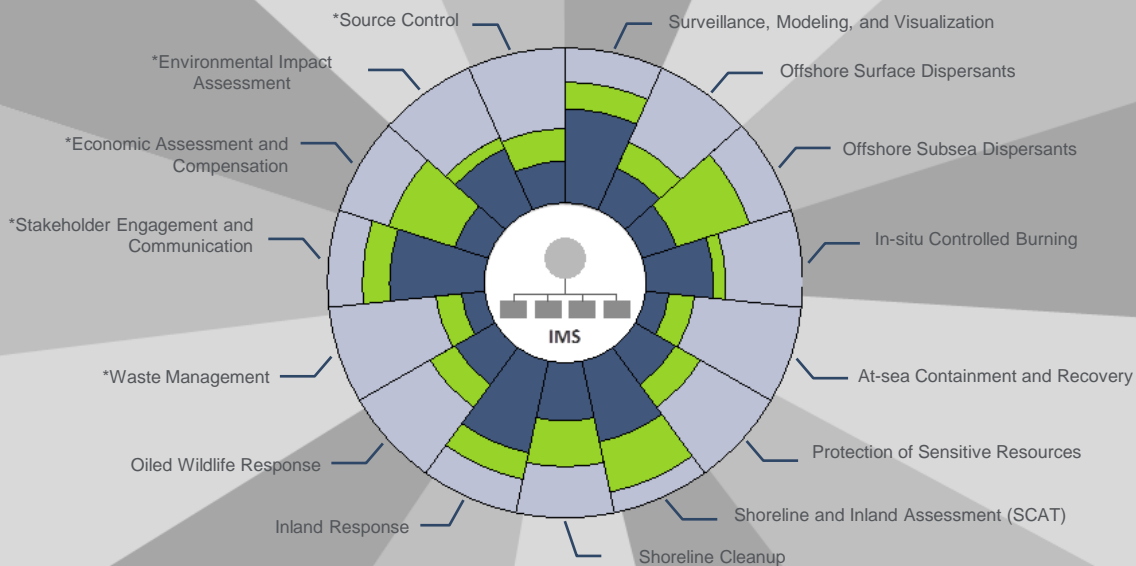
Response Objectives and Tactics



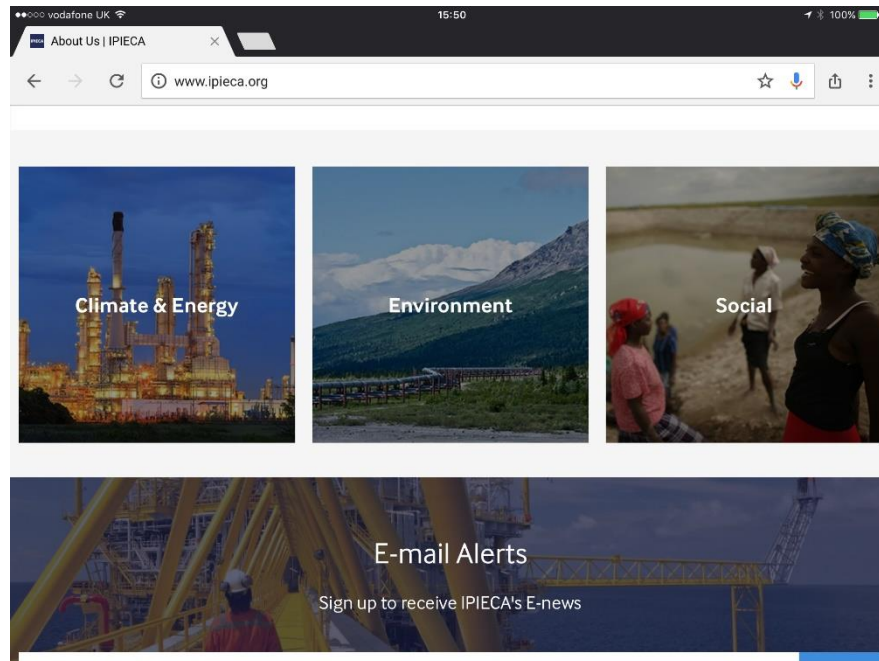
■ Next steps: the road ahead

- Paradigm shift towards use of most effective tools
- Education, communication materials, external education and influence
- Promote the use of all tools, ideally on a pre approved basis (“SIMA”)
- Assess and demonstrate current industry capabilities and priorities for improvement
- Continue to refresh the ‘Good Practice Guides’

Good Practice Guidance for an Holistic Oil Spill Capability



■ Thank you



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