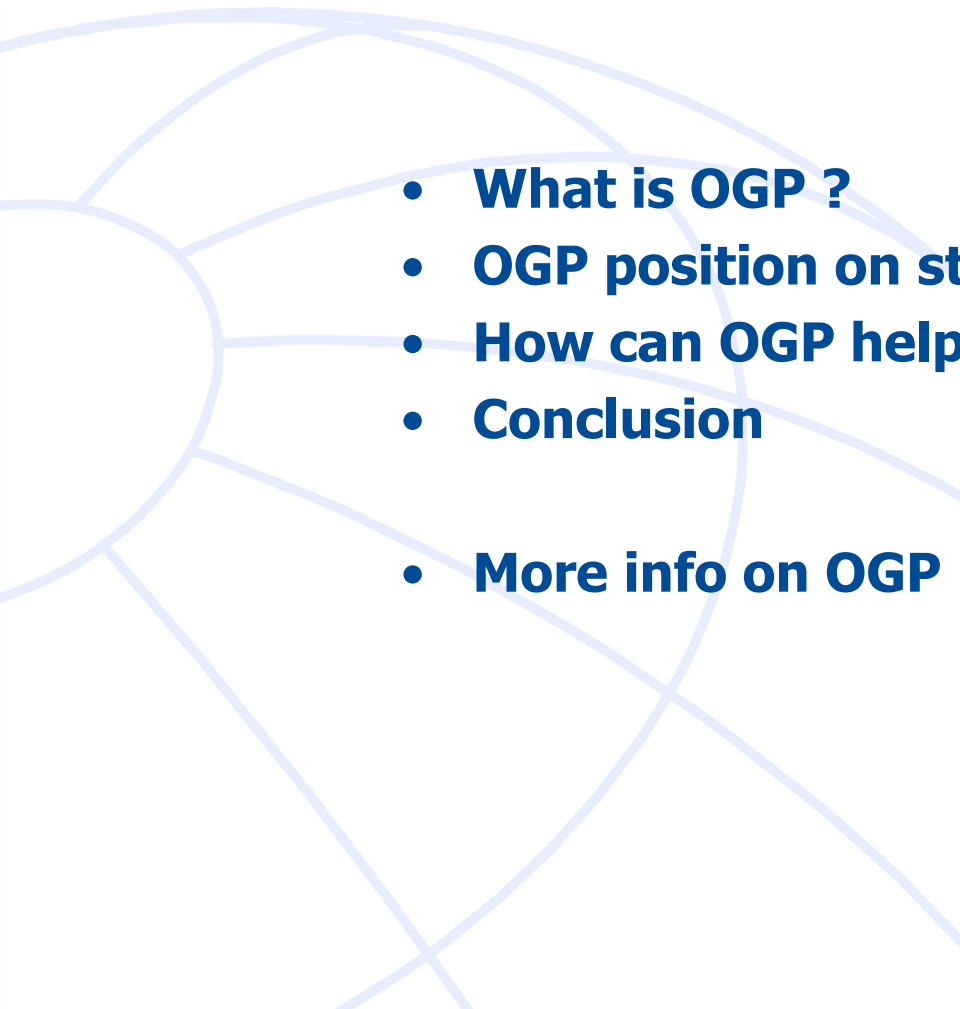


A stylized graphic of a globe is positioned on the left side of the slide. It is composed of several overlapping, light blue curved lines that form a grid-like pattern, representing latitude and longitude lines. The lines are thin and have a slight transparency.

## **BSEE Workshop on Domestic and International Standards**

**New Orleans  
14 Nov 2012**

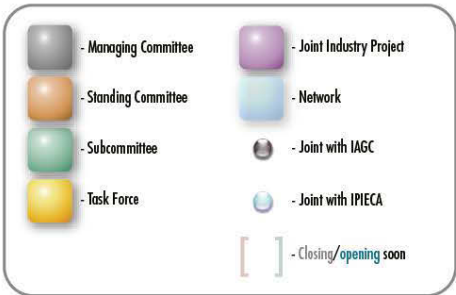
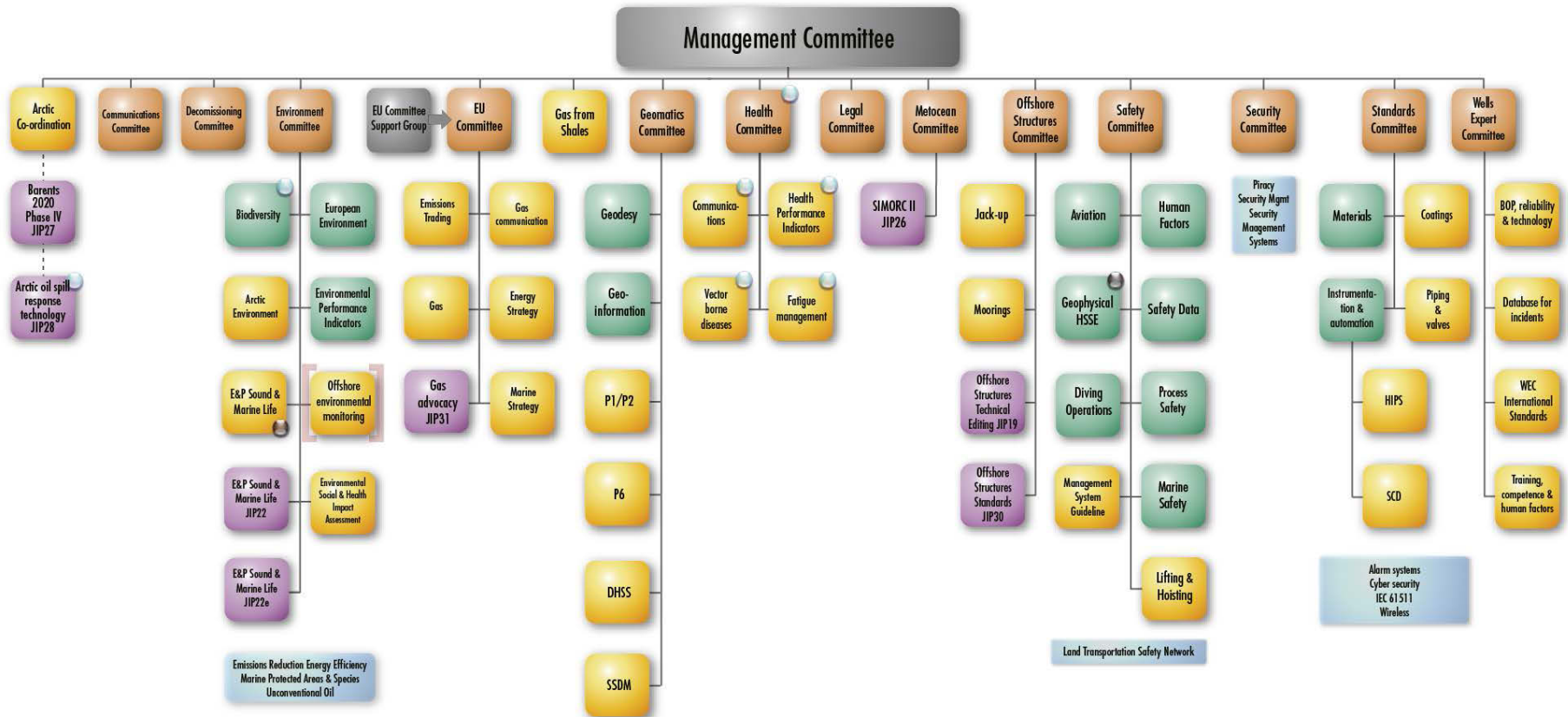
**Denis Deutsch, Total  
Chair OGP Standards Committee**

- 
- **What is OGP ?**
  - **OGP position on standards**
  - **How can OGP help 1-2-3 ?**
  - **Conclusion**
  
  - **More info on OGP**

## What is OGP ?

- **Serving 75 members around the world**
- **OGP's membership includes upstream companies, national and international associations and major contractors – some 40% are either US-based or operate in America**
- **OGP's member companies produce over half of the world's oil and over a third of its gas**
- **OGP involves a large number of participants in its 15 main committees and many SCs, TFs and Networks**
- **One of these main committees is the Standard Committee with 60 members from around the world.**
- **Mid -2010 to mid -2011 : the GIRG = Global Industry Response Group (to recent accidents : prevent, intervene, respond)**

# OGP committee structure



# OGP position on standards

## (OGP is not a Standard Developer Organisation)

- OGP's goal is to foster the development of standards on an international level for the broadest possible application.
- The aim is to produce one set of words:
  - "Do it once, do it right, and do it internationally."
- OGP primarily supports development and publication of international standards by ISO and IEC but appreciates that other standard development organisations such as API, ASTM, ASME, DNV, EEMUA, NFPA, etc. publish standards widely used internationally.
- Involve all stakeholders, including regulators (BSEE, PSA ...)
- *OGP position on standards is described in detail in report No. 381, March 2010, 4<sup>th</sup> edition*

## How OGP can help – 1 ?

- **The GIRG = the Global Industry Response Group, published its report in May 2011**
- **One out of 3 actions of the GIRG was the establishment of the WEC = Well Experts Committee to help prevent other accidents with 4 Task Forces :**
  - Well control incident database
  - BOP reliability and technology development
  - Human factors – training, competence & behaviours
  - **International standards : Established a prioritised list of key standards to be developed**
- **(2 other actions = intervene (capping) and respond to spills)**

## How OGP can help – 2 ?

- There is currently a legal concern for the experts of ISO TC67, equipment for the Oil & Gas industry, which hinders the normal ISO working process
- OGP has decided to host a temporary structure to allow this important standardization work to continue= the **OGP 'Interim Solution'** managed by the OGP IATF (Interim Administration Task Force) ; the TF was launched in June 2012 and is currently comprising more than 40 WGs and more than 1000 experts

## How OGP can help – 3 ?

- After the 'Interim Solution', the industry needs a **permanent solution**
- This is why **OGP and API** very recently (August 2012) **decided to launch a joint Task Force** to:
  - Develop a method to create a single set of standards for the industry that is
  - legally compliant (including trade regulation & export control regimes)
- This new TF had its **1<sup>st</sup> meeting mid-October** and is **expected to report by end Q1 2013**



## Conclusion

### OGP aims at :

- **One set of global standards**
- **Avoid duplication of efforts (resources are scarce )**
- **Involve all stakeholders, incl. regulators**

*'Do it once, do it right, and do it internationally'  
is OGP's motto since 1994*

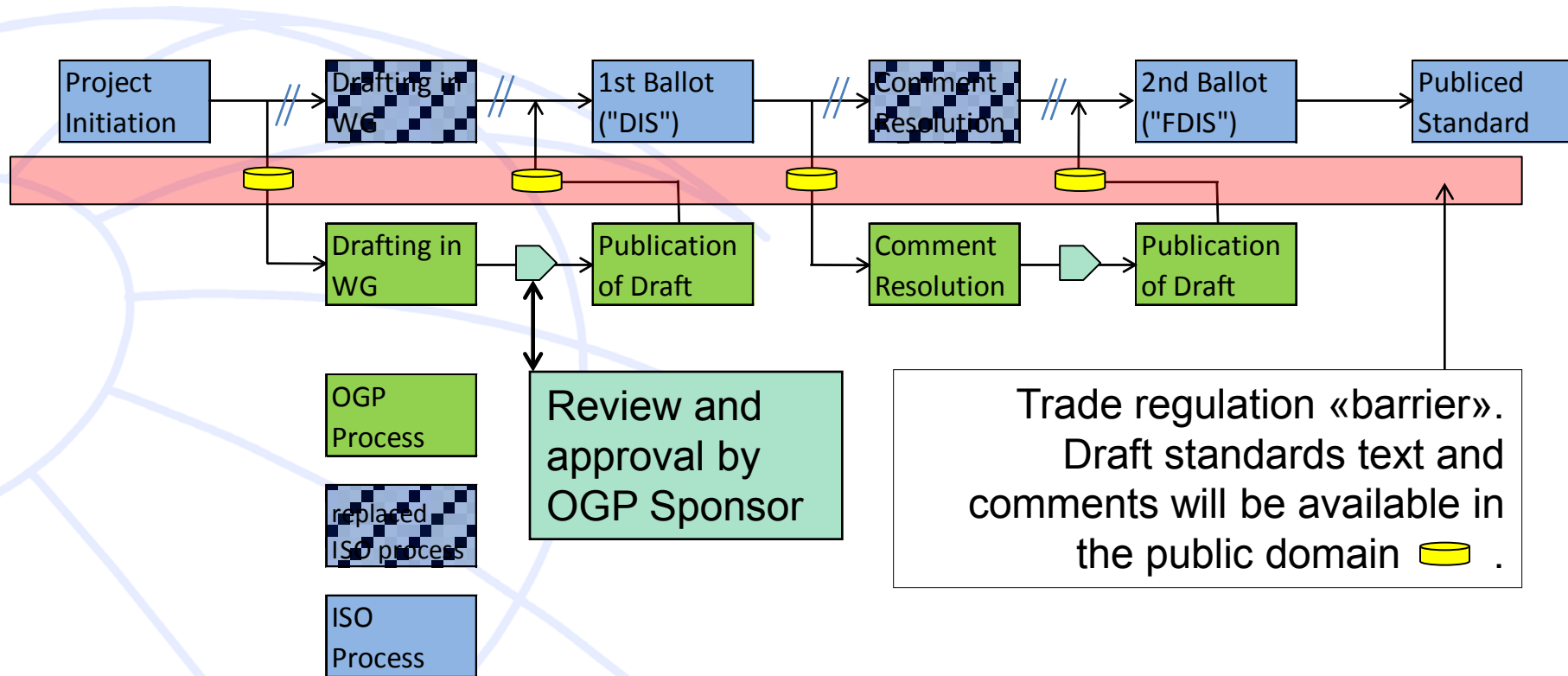
## Links/Reports

- **OGP website** : [www.ogp.co.uk](http://www.ogp.co.uk)
- **OGP Report 463: Deepwater Wells, GIRG recommendations**
- **OGP Report 381: OGP Position paper on development and use of international standards**
- **OGP Report 426: OGP Regulator's use of Standards**
- **OGP Report 450: Benchmarking on the use of international standards by the Operators**
- **OGP Report 4210: Global adoption of ISO/TC67 standards**
- **OGP 2012 Standards bulletin** (*available here !*)

**Back-up slides**



# OGP interim solution compared to ISO route (simplified)



# OGP Standards bulletin poster

## ISO Standards for use in the oil & gas industry

<p>ISO 10418 Basic surface safety systems</p> <p>ISO 10422 Wellhead &amp; christmas tree equipment</p> <p>ISO/TR 12489 Reliability modeling/safety systems (New)</p> <p>ISO 13533 Drill-through equipment (BDPs)</p> <p>ISO 13534 Hoisting equipment - core/main (Rev)</p> <p>ISO 13535 Hoisting equipment - auxiliary (Rev)</p> <p>ISO 13626 Drilling and well-servicing structures</p> <p>ISO 13702 Control &amp; mitigation of fire &amp; explosion</p> <p>ISO 13703 Offshore piping systems</p> <p>ISO 14224 Reliability/maintenance data</p> <p>ISO 14492 GPP piping - Parts 1-4</p> <p>ISO 14643 Drilling equipment</p>	<p>ISO 15156-1 Selection of cracking resistant materials for use in H<sub>2</sub>S environments</p> <p>ISO 15156-2 Cracking resistant steels and cast irons for use in H<sub>2</sub>S environments</p> <p>ISO 15156-3 Cracking resistant alloys for use in H<sub>2</sub>S environments</p> <p>ISO 15138 HVAC</p> <p>ISO 15544 Emergency response</p> <p>ISO 15643 Life cycle costing, Parts 1-3</p> <p>ISO 17776 Assessment of hazardous situations</p> <p>ISO 20815 Production assurance and reliability management</p> <p>ISO 21457 Materials selection</p> <p>ISO 23936-1 Thermoplastics</p> <p>ISO 23936-2 Elastomers (New)</p> <p>ISO/TS 27469 Method of test for offshore fire dampers</p> <p>ISO/TS 29001 Sector-specific quality management systems</p>	<p>ISO 19000 Offshore structures - general requirements</p> <p>ISO 19901-1 Meteocean design and operating considerations</p> <p>ISO 19901-2 Seismic design</p> <p>ISO 19901-3 Topside structures</p> <p>ISO 19901-4 Geotechnical and foundation design</p> <p>ISO 19901-5 Weight control</p> <p>ISO 19901-6 Marine operations</p> <p>ISO 19902 Fixed steel offshore structures</p> <p>ISO 19903 Fixed concrete offshore structures</p> <p>ISO 19905-1 Jack-ups (New)</p> <p>ISO/TR 19905-2 Jack-ups commentary (New)</p> <p>ISO 19906 Arctic offshore structures</p>	<p>ISO 2077-5 Gas turbines - procurement</p> <p>ISO 10428 Sucker rods</p> <p>ISO 10431 Pumping units</p> <p>ISO 10434 Bolted bonnet steel gate valves</p> <p>ISO 10437 Special-purpose steam turbines (Rev)</p> <p>ISO 10438 Lubrication, shaft-sealing and control-oil systems, Parts 1-4</p> <p>ISO 10439 Centrifugal compressors (Rev)</p> <p>ISO 10440-1 Rotary-type positive-displacement process compressors (oil-free)</p> <p>ISO 10440-2 Rotary PD packaged air compressors</p> <p>ISO 10441 Flexible coupling - special</p> <p>ISO 10442 Integritly general air compressors</p> <p>ISO 12211 Spiral plate heat exchangers (New)</p> <p>ISO 12212 Harpin heat exchangers (New)</p> <p>ISO 13653 Reciprocating gas compressors</p> <p>ISO 13681 High speed erlenmeyer gear units</p> <p>ISO 12704 Calculation of boiler tube thickness</p> <p>ISO 12705 Fired heaters for general service (Rev)</p> <p>ISO 13706 Air-cooled heat exchangers (Rev)</p> <p>ISO 13707 Reciprocating compressors</p> <p>ISO 13709 Centrifugal pumps</p> <p>ISO 13710 Reciprocating positive displacement pumps (Rev)</p> <p>ISO 13711</p>	<p>ISO 14691 Flexible couplings - general</p> <p>ISO 15547-1 Plate &amp; frame type heat exchangers</p> <p>ISO 15547-2 Brazed aluminium plate fin type heat exchangers</p> <p>ISO 15649 Piping</p> <p>ISO 15761 Steel valves DN 100 and smaller</p> <p>ISO 16812 Shell &amp; tube heat exchangers</p> <p>ISO 17292 Metal ball valves</p> <p>ISO 21049 Centrifugal and rotary pumps shaft sealing (Rev)</p> <p>ISO 23251 Pressure-relieving and depressuring systems (Rev)</p> <p>ISO/TS 24817 Composite repair of pipework</p> <p>ISO 25457 Flange details</p> <p>ISO 27509 Compact flanged connections (New)</p> <p>ISO 28300 Venting of storage tanks</p> <p>ISO 28460 LNG - Ship to shore interface</p>
<p>ISO 13628-1 Subsea production systems (Amend)</p> <p>ISO 13628-2 Subsea flexible pipe systems</p> <p>ISO 13628-3 Subsea FPL pumpdown systems</p> <p>ISO 13628-4 Subsea wellhead and tree equipment</p> <p>ISO 13628-5 Subsea control umbilicals</p> <p>ISO 13628-6 Subsea production controls</p> <p>ISO 13628-7 Completion/workover riser system</p> <p>ISO 13628-8 ROV and interfaces (Rev)</p>	<p>ISO 13628-9 ROV intervention systems</p> <p>ISO 13628-10 Bonded flexible pipe</p> <p>ISO 13628-11 Flexible pipe systems for subsea and marine applications</p> <p>ISO 13628-15 Subsea structures and manifolds (New)</p> <p>ISO 13629-14 Spools for flexible pipe auxiliary equipment (New)</p> <p>ISO 13629-17 XP for flexible pipe auxiliary equipment (New)</p>	<p>ISO 10427-2 Centralized placement and step-collar testing</p> <p>ISO 10427-3 Performance testing of cement float equipment</p> <p>ISO 10432 Subsurface safety valves</p> <p>ISO 11960 Casing and tubing (Rev)</p> <p>ISO 11961 Drill pipe</p> <p>ISO 13005 Tubing aluminium alloy pipes (New)</p> <p>ISO 13500 Drilling fluids (Amend)</p> <p>ISO 13501 Drilling fluids - processing systems evaluation (Rev)</p> <p>ISO 13502-1 Measurement of viscous properties of completion fluids (Rev)</p> <p>ISO 13502-2 Measurement of properties of proppants</p> <p>ISO 13502-3 Testing of heavy brines</p> <p>ISO 13503-4 Measurement of stimulation &amp; gravelpack fluid lockoff</p> <p>ISO 13503-5 Measurement of long term conductivity of proppants</p> <p>ISO 13503-8 Measurement of leak-off of completion fluids under dynamic conditions (New)</p> <p>ISO 13678 Thread compounds</p> <p>ISO 13679 Casing and tubing connections testing (Rev)</p>	<p>ISO 13680 CRA seamless tubes for casing &amp; tubing</p> <p>ISO 14310 Packers and bridge plugs</p> <p>ISO 15126-1 Progressing cavity pump systems</p> <p>ISO 15126-2 Progressing cavity pump systems - drive heads</p> <p>ISO 15463 Field inspection of new casing, tubing and plain and drill pipe</p> <p>ISO 15464 Gauging and inspection of threads</p> <p>ISO 15546 Aluminium alloy drill pipe (Rev)</p> <p>ISO 16070 Lock mandrels and landing nipples</p> <p>ISO 17078-1 Side-pocket mandrels (Amend)</p> <p>ISO 17078-2 Flow control devices for side-pocket mandrels</p> <p>ISO 17078-3 Landers &amp; seals for side-pocket mandrels &amp; flow control devices</p> <p>ISO 17078-4 Side-pocket mandrels and related equipment</p> <p>ISO 17824 Sand control screens</p> <p>ISO 20312 Design of aluminium drill string (New)</p> <p>ISO 20313 Aluminium drill pipe thread engaging (New)</p> <p>ISO 28781 Subsurface tubing mounted formation barriers</p>	<p>ISO 21110 Sand pipe for spooling transportation systems (New)</p> <p>ISO 22990 Actuation, mechanical integrity and sizing for pipeline valves (New)</p> <p>ISO/TS 12747 Pipeline life extension (Rev)</p> <p>ISO 13623 Pipeline transportation systems</p> <p>ISO 13847 Pipeline welding (Rev)</p> <p>ISO 14313 Pipeline valves</p> <p>ISO 14723 Subsea pipeline valves</p> <p>ISO 15589-1 Cathodic protection for on-land pipelines (Rev)</p> <p>ISO 15589-2 Cathodic protection for offshore pipelines (Rev)</p> <p>ISO 15590-1 Pipeline induction bends</p> <p>ISO 15590-2 Pipeline fittings (Rev)</p> <p>ISO 15590-3 Pipeline flanges (Rev)</p> <p>ISO 16708 Pipeline reliability-based limit state design</p> <p>ISO 21329 Test procedures for pipeline mechanical connectors</p> <p>ISO 21809-1 Polyethylene coatings (3-layer PE and 3-layer PP) (New)</p> <p>ISO 21809-2 Fusion-bonded epoxy coatings (Rev)</p> <p>ISO 21809-3 Field joint coatings (Amend)</p> <p>ISO 21809-4 Polyethylene coatings (2-layer PE)</p> <p>ISO 21809-5 External concrete coatings</p>
<p>ISO/TR 10400 Calculations for OCTG performance properties</p> <p>ISO 10405 Core/use of casing/tubing</p> <p>ISO 10407-1 Drill stem design</p> <p>ISO 10407-2 Inspection and classification of drill stem elements</p> <p>ISO 10414-1 Field testing of water-based fluids</p> <p>ISO 10414-2 Field testing of oil-based drilling fluids (Rev)</p> <p>ISO 10416 Drilling fluids - lab testing</p> <p>ISO 10417 Seal-off safety valve systems</p> <p>ISO 10424-1 Rotary drill stem elements</p>	<p>ISO 10424-2 Threading and gauging of connections</p> <p>ISO 10426-1 Well cementing</p> <p>ISO 10426-2 Testing of well cements (Rev)</p> <p>ISO 10426-3 Testing of deepwater well cement</p> <p>ISO 10426-4 Preparation and testing of atmospheric foamed cement slurries</p> <p>ISO 10426-5 Shrinkage and expansion of well cement</p> <p>ISO 10426-6 Shaft gel strength of cement formulations</p> <p>ISO 10427-1 Blow spring casing centralizers</p>			



Standards in brown issued in 2011

Standards in green are a priority for 2012 issue

These ISO standards are only a core collection of several hundreds of International Standards available for the oil & gas industry

# The Global Industry Response Group (GIRG)



## **Background:**

- Formed in July 2010 to lead industry response to the Macondo accident in the Gulf of Mexico, Montara in Australia and other similar incidents

## **Task:**

- To improve the industry's well incident prevention, intervention and response capabilities
- And by doing so, reduce the likelihood and impact of future well incidents

## **Results:**

- Recommendations to prevent, mitigate and respond to well incidents issued in May 2011

## On-going initiatives

### 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

**MUTUAL AID**

**OSR**  
Oil Spill Response Advisory Programme

Governments, regulators, NOIAs, OSROs and industry initiatives

# Wells Expert Committee: progress

## **Well control incident database:**

- Launched and being compiled, instant benefits from safety alerts
- Long-term project to identify areas for special action

## **BOP reliability and technology development:**

- Research contract let to develop a methodology for assessing the ability of a BOP system to deliver the required performance
- Identify areas where BOP system performance can be improved through better design, testing and technology

## **Human factors – training, competence & behaviours:**

- Contract signed with Aberdeen University to develop guidelines for crew resource management
- Recommendations being developed for well control training, examination and certification

## **International standards:**

- Established a prioritised list of key standards to be developed
- On-going liaison with relevant bodies including API, IADC, ISO, OSPRAG and WLCPF Competence Task Force



# International engagement

- Co-operation with International Regulators' Forum
  - International recognition at Ministerial Forum on Offshore Energy Safety
- 