

## Subsea Well Response Readiness Evolution

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Subsea well response readiness continues to evolve through equipment enhancements, improved planning guidance, focused training initiatives, mutual aid frameworks, but most importantly focused collaboration across industry. The purpose of this presentation is to provide an overview of the latest developments in subsea well response, key considerations for preparing for this low probability, but potentially high consequence event and the value that quality preparedness and planning provides including: -

- Development of the Global Subsea Response Network (GSRN) – The GSRN provides a network of key contractors / resources that could be required to provide support to the well incident owner in a subsea well response but also can provide critical input into planning / training and exercises. This section of the presentation will highlight the key considerations for response planning referencing the recommendations of IOGP 594 “Source Control Emergency Response Planning Guide for Subsea Wells” and provide an overview of a response framework of GSRN participants considering the recommendations of IOGP 591 “Guidance for Subsea Source Control Competency and Skills” from a planning perspective.
- Overview of key equipment enhancements – The global stockpile of equipment continues to evolve, being supplemented with additional capabilities to reduce incident owner scope of supply at the time of the incident and to further develop risk mitigation and response tactics.  
  
Key equipment stockpile enhancements have included the introduction of Water Column Monitoring (WCM) equipment and the Dispersant Delivery System (DDS) to help rapid mobilisation and application of subsea dispersant in subsea well response missions. This section of the presentation will provide a high-level overview of the importance of these technologies to subsea well response activities.
- Regional preparedness initiatives – Promoting consistency of planning for a regional context. Helping Operators but also Regulatory mutual understanding of the interdependencies of a comprehensive response plan.
- Developments in digital tools to promote subsea well response awareness training. Helping to support well prepared response resources. How market intelligence and cross industry collaboration can help address the critical path of a response.
  - a) The presentation will provide an overview of the SEA / Response software that has been developed to select, track, and monitor the appropriate vessel to support offshore response missions. The software includes initial response time modelling capability to help support vessel selection including way points to the global stockpile of equipment storage locations such as the capping stacks (Brazil / Norway / Singapore / South Africa).
  - b) The presentation will also provide an overview of the SWAP (Subsea Well Awareness Portal) which references the recommended guidance of IOGP 591 for subsea well response awareness training for roles within the Incident Management Team.
- Considerations / key lessons learned from subsea well response exercises to gain the most from this assurance activity.

- a) The presentation will provide a high-level overview for an approach to subsea well response exercise preparation and facilitation. Lessons learned from subsea response drills and exercises will be shared.
- How mutual aid frameworks can help to strengthen access to the necessary resources for a subsea response, particularly for sustained durations.
- Key focus areas for the future.