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- The Oil & Gas industry is stretching the limits of what can be achieved with current technology
- Autonomous systems represent an emerging new system category that can provide solutions to meet these challenges
- There are challenges in oil spill response that could be solved with similar solutions
- Within the Oil and Gas industry and Oil Spill Response Organisations (OSROs) the application of Marine Autonomous Systems (MAS) for in-water surveillance in emergency oil spill response is still being evaluated



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Potential Benefits of Autonomous Systems in emergency RAI, AMSTERDAM 21-23 JUNE 2022 oil spill response **Reduced risk:** · Reduced human exposure to danger i.e. reduce or eliminate people working on-site **Reduced cost:** · Less need of costly human supervision Increased up-time (no illness) Reduce dependence on resources required to support humans i.e. expensive vessel time • (require limited resources to deploy and recover) **Optimal operations:** • Increased situational awareness = improved decision making i.e. near real time and long term datasets, large spatial resolution datasets Simultaneous operations: · Co-operating robot teams i.e. joint asset integrity and environmental compliance surveys, pipeline day to day monitoring and spill response New areas: · Enables surveys of previously inaccessible areas < Oil Spill Response © Copyright. Oil Spill Response Limited.



















