

Oil and Gas



Call for Real Time Monitoring and Control and Data Analytics

CONTEXT

Digitalization will ultimately change the ways people are deployed to conduct their work including in the Oil and Gas industry. This would entail a combination of increased automation, process redesign, and better leverage of the power of big data analytics.



WHAT WE ARE LOOKING FOR

We seek novel approaches to provide secure closed loop systems for monitoring, control, diagnostics, and prognostics of oilfield operations. This will serve to provide monitoring and control of operational system health and integrity along with associated data analytics.

The proposals must be capable of addressing specific oil and gas industry issues and should include a clear description of the business case. The basic science must be well understood, but the concept would still need to be proven through modeling or testing in a simulated operational environment.

Typically, technologies with a TRL 2-5 (as per [API 17N](#)) are the best candidates for this call. Please provide a clear description on how you will reach your "Proof of Concept".

IN SCOPE

- Integrated real-time remote sensing, monitoring and control technologies.
- High impact data analytics and artificial intelligence applications.

OUT OF SCOPE

- Point solutions including individual sensors.
- Software solutions or apps designed for incremental problem solving.

WE APPLY THE FOLLOWING CRITERIA FOR CONSIDERATION:

1. Novel – Is the idea fundamentally different and unproven?
2. Valuable – Could the idea create substantial new value if it works?
3. Doable – Is there a plan to prove the concept quickly and affordably?
4. Relevant (Why Shell?) – Is the idea relevant to the future of energy?

Any information submitted as part of the process must contain only NON CONFIDENTIAL data and information at this stage.

The funding opportunity will be in the range USD 150,000 – 300,000 to progress a "proof of concept" in a phased approach over a period of no more than 12 months. Further development may be supported and or facilitated by Shell depending on the overall outcome of the initial award.

For questions contact GameChanger-Challenge@shell.com