

OGIC Project Case Study: Hydrasun with University of Strathclyde

Interventor™ - From Concept to Commercialisation



Hydrasun is a leading specialist provider of integrated fluid transfer, power and control solutions to the Oil and Gas, renewable energy, OEM, marine and defence industries worldwide.

Hydrasun has a track record of offering a diversified range of products & services, providing customers with a suite of integrated solutions that meet all their fluid transfer, power & control requirements.

Through customer engagement, Hydrasun identified an opportunity to develop a lighter, self-supporting flexible hose for applications such as well intervention; pipeline intervention/ commissioning and emergency response. Being lighter and load bearing, the new flexible hose solution would be quicker to deploy, therefore cheaper to use. This development would offer operational, technical and commercial benefits over alternative hoses, composite pipes and coiled tubing.

Hydrasun had developed prototypes of the flexible hose and undertaken initial tensile tests. To progress further, they identified that they needed access to academic expertise in both materials science and the provision of practical industrial support utilising laboratory and test facilities.

They engaged with OGIC for this early stage assistance.

Hydrasun met with a number of Scottish Universities to discuss the project and selected Strathclyde University as their academic partner. They were impressed by Strathclyde's early engagement to ask questions before finalising their proposed plan. This close relationship continued throughout the project, working collaboratively to refine the programme within the agreed scope.

The initial project involved a desk based materials study followed by destructive and fatigue testing of samples to fully characterise their properties.

The outcomes from this phase, combined with feedback from Hydrasun's customers provided the input for phase 2 of the project. Strathclyde University were commissioned to undertake further physical testing, lab analysis and reporting to understand the technology's performance, capabilities and limitations under simulated conditions. The combined outputs and results from both phases of the project provided Hydrasun and potential end users with qualification data on the technology's suitability for particular well intervention or emergency response applications.



This provided confidence for the customer. Hydrasun then undertook further qualification activities in collaboration with the customer.

Interventor™, a range of load bearing hoses for well intervention, pipeline commissioning and emergency response, was commercialised in January 2016 with the first project delivery completed in November 2016.

“Once Hydrasun had finalised the scope of work for the next stage, it was only a matter of weeks before we were fully up and running with the second phase of tests.

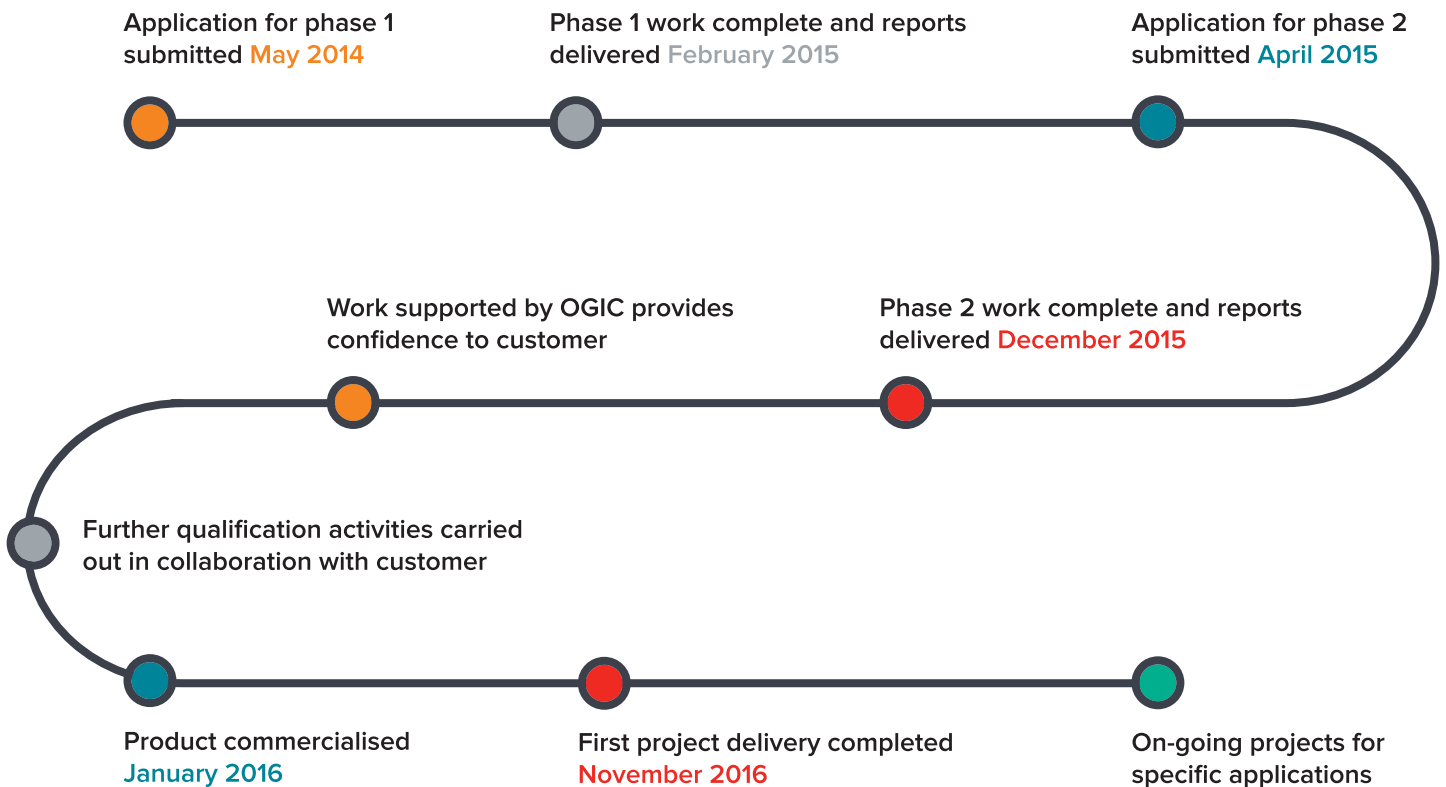
Having the continued support from OGIC for the second phase enabled Hydrasun to accelerate the testing programme. The continuity of working with the University of Strathclyde again meant we were already in tune with the project and had a good working relationship from the outset.”

Jonathan Hill, Engineering, Head of Development, Hydrasun

“The department of Mechanical and Aerospace Engineering at Strathclyde developed a very close working relationship with Hydrasun and this enabled the testing, validation and eventual commercialisation of a new and valuable product for the Subsea Oil and Gas industry in a relatively short period of time. Working with OGIC was a significant enabler to the process.”

Willie Reid, Director,
University of Strathclyde Oil and Gas Institute

Timeline: **Interventor™** - From Concept to Commercialisation



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