PGS CONSOLIDATES AND STREAMLINES PLM WITH ARAS INNOVATOR

Petroleum Geo-Services ("PGS") is a focused Marine geophysical company that provides a broad range of seismic and reservoir services, including acquisition, imaging, interpretation, and field evaluation. The company's MultiClient data library is among the largest in the seismic industry, with modern 3D coverage in all significant offshore hydrocarbon provinces of the world.

A key component of the PGS operation is GeoStreamer®, a state of the art data acquisition cable that represents the industry's first true broadband marine seismic system. PGS Ramform Titan-class vessels have towing capability of up to 24 GeoStreamers®. Each streamer is typically between 8-10 kilometers long and is towed at 20-25 meters water depth. The streamers return clear, accurate, and reliable subsurface images that move the industry one step closer to being able to discern the rock properties and fluid content of potential oil and gas reservoirs.

Keeping PGS at the forefront of this dynamic industry takes continuous product development and smooth ongoing operations. This requires constant support for the hardware and software technology that makes it all possible. PGS needed a comprehensive PLM tool to help manage the complex mechanical and electrical requirements of GeoStreamer® and other advanced products that support the operation.

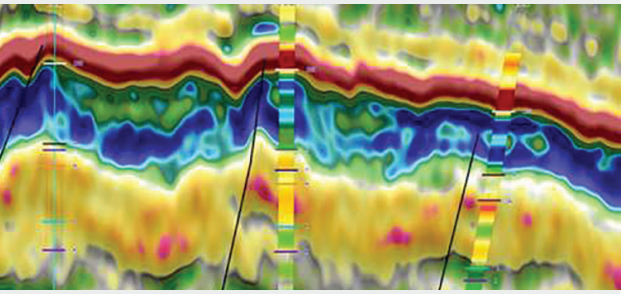
Managing multiple applications and systems presents challenges

At PGS, new equipment goes through a full product lifecycle of development, prototype, and commercialization before it is released to the field. Once installed, the hardware and software must be kept up to date.

"Our role is to sustain the hardware, software, and test systems for all our products and equipment," says Reagan Jones, Sustaining Manager at PGS. "We make sure that any production problems, obsolescence issues, and testing are taken care of before and after the product is released. It's critical to make sure the equipment is up and running because it's a major ordeal to pull a dozen, 10K long streamers out of the water."

PGS has a complex workflow when it comes to new product development. They were struggling to manage the many relationships and interactions between the mechanical and electrical side. PGS wanted a system in place that would bring the complete bill of materials together so they could easily view and manage the combined product structure. They also wanted a solution to be able to handle revisions and updates for the organization's hardware and software.

Razorleaf aras GOLD CERTIFIED PARTNER 2021



CHALLENGE

Consolidating and managing a complex PLM process for intricate seismic survey equipment

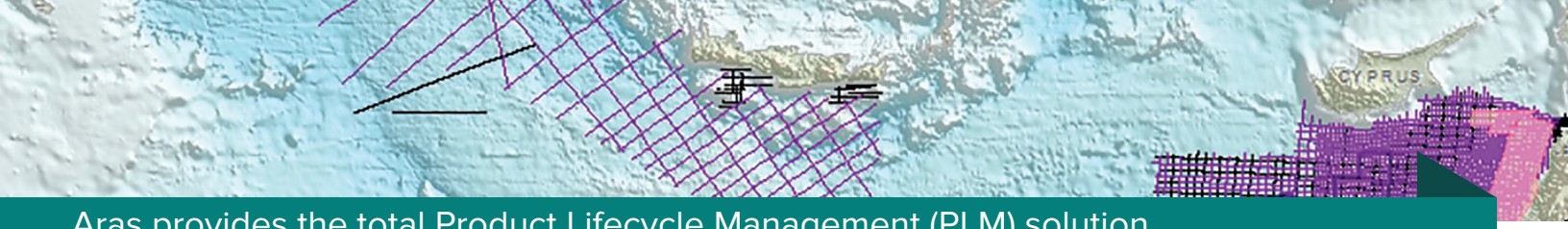
SOLUTION

* Implement Aras Innovator to integrate mechanical and electrical aspects of product development and support

BENEFITS

* Presents a unified bill of materials for all products
* Provides central location for all product related data and documentation
* Converts application source data into structured data that is easy to access and use
* Standardizes workflow process
* Handles complex data interaction for unique lifecycle/workflow process
* Improves revision control and upgrade process

3732 Fishcreek Rd # 291, Stow, OH 44224
www.razorleaf.com / info@razorleaf.com



Aras provides the total Product Lifecycle Management (PLM) solution

PGS selected Aras Innovator as their unifying PLM platform.

“Aras helps us keep track of everything that is in the field, every revision, serial number, technical notification, specification, and data sheet,” says Jones. “It gives us one place to go for all the information we need. It provides immediate access and control. Having a tool like Aras is crucial and it’s working for us.”

PGS is feeding Aras from SOLIDWORKS for mechanical and OrCAD for electrical using connectors that take source drawings and documents and converts them into structured data that they can access when needed.

“Whenever we have an upgrade or product revision, we go right to Aras to pull the data we need instead of having to go back to PDFs in SOLIDWORKS or OrCAD,” says Jones. “It streamlines the entire process.”

Aras Innovator has also been beneficial in improving the PGS workflow.

“The tool has helped us standardize the way we do things,” says Jones. “Our hardware and software groups are working together with a common workflow process control document. It shows when certain tasks need to be performed and why. We’ve proved over and over that Aras works.”

Razorleaf key to implementation and ongoing operations

Razorleaf was involved in the presale of Aras and helped explain the solution’s features, performed a gap analysis, and mapped PGS requirements to Aras functionality. PGS then selected Razorleaf to help with the implementation.

The project involved requirements gathering, development of solution architecture, configuration, and customization to meet some of the unique needs of PGS. The implementation also involved integrating SOLIDWORKS and OrCAD WITH ARAS INNOVATOR.

PGS has several unique needs that pose a challenge because of the way data interacts between workflow and lifecycle within the system. Razorleaf worked with the PGS team to develop creative solutions to make it happen effectively.

“Customization was huge since we had to add several tools within Aras to help us address some of our specific needs,” says Jones. “Razorleaf was really helpful in that area. They have a very responsive crew.”

PGS reaping the benefits of Aras

“Aras has eliminated the need for us to question or wonder about things,” says Jones. “All we have to do is look it up in the Aras database to get our answers. We’ve always had a good database but Aras makes it even better because it is so well organized. It’s excellent for document control and a great tool for engineering to help control the process.”

PGS now has better revision control and a unified bill of materials. They can conduct impact analyses across both the mechanical and electrical side whenever they plan any action. They are better able to manage their products from development to prototype to commercialization and then through the entire product lifecycle.

“We use Aras for everything,” Jones says. “We don’t just store files and documents. We use it as a push pull opportunity for getting the right data at the right time.”

Razorleaf provides ongoing support

Razorleaf continues to support the PGS operation more than seven years after the implementation. They have assisted with upgrades and have added incremental functionality involving managing and attaching reference documentation.

“We are always working through a list of issues we need to address,” says Jones, “and Razorleaf is by our side on an ongoing basis. The relationship has been very good. They’ve helped us out a great deal and have always been there for us. We look forward to continuing to work with them.”

3732 Fishcreek Rd # 291, Stow, OH 44224
www.razorleaf.com / info@razorleaf.com