

The U.S. Navy Enhances Maritime Operations by Gaining Actionable Insights into Ship Maintenance Data

Swish and Qlik team up to close the Navy's gap between data, insights and action.

Introduction

The Navy Maritime Maintenance Enterprise Solution, NMMES is an information technology toolset used by NAVSEA in ship maintenance and repair at shipyards located in Norfolk, Virginia; Portsmouth, Maine; Puget Sound, Washington; and Pearl Harbor, Hawaii. The information this massive system collects and utilizes includes everything from scheduling repair availability at individual yards to securing spare parts, financial management, workforce planning and dozens of other activities. It encompasses every phase of ship maintenance, from initial planning to the final close-out of an individual maintenance contract.

The Problem

Prior to working with Swish and Qlik, the NMMES users were struggling with home grown data analytics solutions and basic legacy reporting systems. There was no ability to drive real-time decisions and actions from the vast amount of data that they collected. Critical decisions had to be made based on past performance versus taking full advantage of real time insights. They needed a data analytics solution to help collate, visualize and track all data within the Navy's shipboard maintenance system to provide active intelligence. Having active intelligence would enable them to support a state of continuous intelligence with an end-to-end analytics pipeline.

The Solution

The NMMES team brought in Swish to assess the scenario and make a recommendation based on past experience with business intelligence best-of-breed technology solutions. Swish strongly recommended Qlik. Qlik solutions enable everyone within an organization to use data and analytics to improve decision-making and solve challenging problems. It's an end-to-end, real-time data integration and analytics cloud platform that closes the gaps between data, insights and action. By transforming data into active intelligence, NMMES can drive better decisions, build higher quality ships, reduce costs and increase productivity across the four shipyards that support the U.S. NAVSEA fleet.



15 yrs

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solutions and
engineering services

50k

Qlik customers around
the world



Swish is a provider of technology solutions and engineering services to the U.S. Federal Government with a focus on high-quality outcomes for customers. Experienced and certified engineers research and evaluate the most innovative technologies on the market and then develop full life cycle solution offerings to ensure that customers realize maximum operational value. Since 2006, Swish has delivered high-performance solutions and services to the Federal Government market ensuring that customers' digital service capabilities, performance and security exceed expectations and requirements. Swish is a Service-Disabled, Veteran- Owned and HUBZone certified Small Business.

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The Benefit

Qlik enabled NMMES to modernize their ability to report and analyze ship maintenance. They are now able to visualize ship maintenance data using Qlik's Artificial Intelligence / Machine Learning capabilities giving them insights into ship maintenance operations that they have never had. They can now see collectively the logistics of repairing and maintaining ships over many years and accurately assess wear and tear. This leads to longer ship life and more time at sea which in turn, strengthens national security. Qlik enables NMMES to significantly reduce shipyard time and save money by applying maintenance at the appropriate time or "just in time" and more accurately. They can now ask complex questions using Natural Language Processing about ship maintenance and receive insightful answers that enable them to continuously improve their operations.

Why Swish

Swish has been providing the DoD and civilian agencies outcomes-based technology solutions and engineering services for 15 years and has a dedicated practice in data analytics. With Qlik certified sales and services personnel, Swish is ready to assist any government agency in gaining real time, up-to-date information to trigger immediate actions when they matter most.

Summary

NMMES was challenged with easily finding relevant ship maintenance data, using internally developed data analytics tools and legacy reporting applications. They had a vast amount of maintenance data but no actionable insights from it. Having a dedicated data analytics practice, Swish was consulted on the Navy's problem and recommended Qlik. With over 50,000 customers around the world, Qlik is a leader in real-time, AI driven data analytics. By implementing Qlik, NMMES was able to improve decision making, increase productivity and significantly reduce costs.