

Effective Collaboration and Multi-Tasking in System of System Planning and Deployment Engineering



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SYSCOM: Naval Sea Systems
Command (NAVSEA)
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Program Sponsor: PEO – IWS

Other Potential Programs:

Overmatch

Current TRL: 7

Projected TRL: 9 / Q3 2024

Keywords:

Program Planning, Road Mapping,
System of Systems, Data Lake, Digital
Engineering

THE CHALLENGE

System of Systems engineering is complicated, especially across multiple program offices. Traditional methods of communication and coordination using document-centric approaches including project files, spreadsheets, and presentations were insufficient. PEO IWS sought technology-based improvements within its multi-tasked and multi-disciplined ecosystem to deliver capability to the Fleet more effectively.

THE INNOVATION

SimVentions developed Informedb™ Enterprise to enable collaboration, coordination, and consistency within a Program Office to share and consolidate plans across the PEO. Informedb™ enables distributed (web-based) integration of a data lake to coordinate deployment schedule and planning of emerging capabilities across the Fleet augmented by automated reporting and roadmap visualization of system-of-systems integration timelines.

THE NAVY BENEFIT

Informedb™ technology has been key in helping to “Deploy Capability by Design” rather than by default. It provides a level of truth, coordination, and rigor to see what is being developed for the Fleet: “Informedb’s enablement of data-based decision-making and ‘radical transparency’ has streamlined our PEO’s customer engagements and improved our acquisition planning, cross-organization alignment, and fielding execution,” a PEO IWS sponsor stated. This alignment has improved the ability to sustain our Navy’s competitive advantage long into the future. The innovations reduce program risk and cost by improving the quality and compatibility of planning and coordination efforts across the enterprise.

Informedb™ has also been implemented for a wide variety of DoD customers beyond PEO IWS. All NAVSEA Warfare Centers are using Informedb™ as the foundation for Technology Investment Planning and Execution Reporting System (TIPERS) for project investment coordination and reporting. For MARVL, Informedb™ supports the USMC effort of collection and reporting of manpower, personnel, and training data. Informedb™ enables the rapid creation of data-centric decision tools on Government-deployed production environments. Informedb™ continues to expand its benefit to the Navy and beyond.

THE FUTURE

Informedb™ continues to add new capability, pursuing the application of Artificial Intelligence/Machine Learning, predictive analytics, and automated relationship discovery; and the integration of new data visualization tools and techniques. SimVentions is currently working back-end modernization with graph databases, emerging technical libraries, and usability features for future expansion and innovation. The company is continuously improving adoption of DevSecOps and the development pipeline. Informedb™ is poised to help your organization’s Digital Engineering and information management needs.

Innovation Center at 2022 Navy Gold Coast



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