**Case study**

How DC Water breaks down information silos

US water company builds Asset Information Model in Asite's Common Data Environment

Introduction

DC Water provides drinking water, sewage collection and wastewater treatment for Washington D.C., neighboring jurisdictions including Montgomery and Prince George's counties in Maryland, and Fairfax and Loudoun counties in Virginia. As part of its digital transformation efforts, DC Water is digitizing its critical assets, including the advanced wastewater treatment plant and pump stations in 3D. This initiative aims to improve the daily operations and maintenance of these essential water, sanitary and stormwater systems across Washington, D.C.
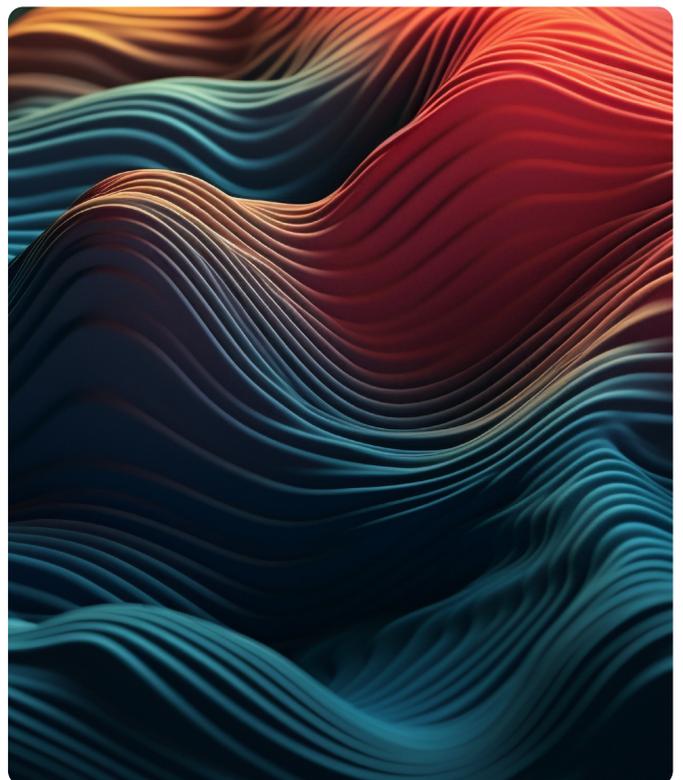
Challenges

Information held in different formats and software

DC Water's digital team identified a key challenge in asset digitization: ensuring seamless integration between software solutions to prevent information silos. Asset data at DC Water was stored across multiple formats – SCADA, Wonderware, GIS maps, LiDAR scans, Oracle, Contract Manager and SharePoint – managed in different platforms. This required teams to switch between software to get a complete view, while also leveraging IBM Maximo for asset management.

Solution

DC Water sought a solution to consolidate asset information and unlock more value from the data being created. DC Water partnered with Mott MacDonald and Asite on a pilot study to centralize asset data. Together the teams developed DC Water's Asset Information Model built in Asite's Common Data Environment. This enables teams to access and use data efficiently, reduce reliance on multiple software licenses, and enhance collaboration and operational efficiency.
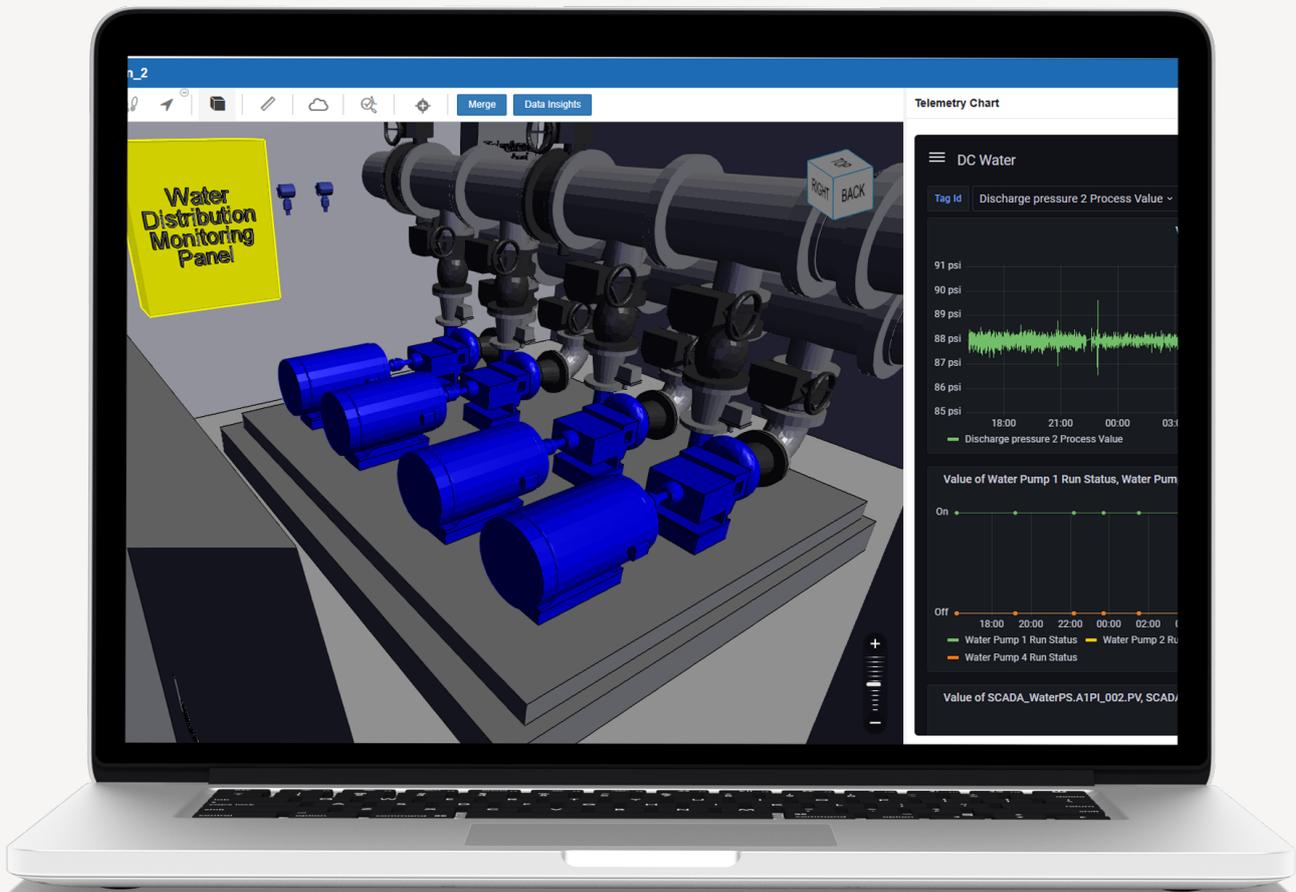
Federated 3D BIM model visualized alongside pump information in Asite.

> **View All Information in One System**

Instead of toggling between multiple software platforms, DC Water now accesses asset information from a central hub, the Asite CDE, eliminating the need to log in and out of multiple platforms, streamlining workflows and enhancing data accessibility.

DC Water leverage a customizable dashboard to view telemetry data and seamlessly navigate into their BIM models. APIs from Asite's software were integrated with those of the source systems, enabling data sharing across platforms. This integration supports the creation of a project hierarchy, data streams, and coding structures, transforming disparate data into standardized formats.

> **Minimized Licensing Requirements**

Using Asite, teams can access more information without requiring expensive licenses for multiple platforms. This approach maximizes value by increasing accessibility to data. Team members can view federated models and quickly link to relevant files, reducing the time spent searching for information and improving efficiency.

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Asite has allowed us to minimize back and forth between software. My teams now access a federated model minimizing the need for additional licenses, increasing the value of the information we already have.

Kenrick St. Louis
Vice President, Sewer and Pumping Operations

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Conclusion

The implementation of Asite began as a pilot program, demonstrating its potential to break down digital silos and improve asset management. By opening up access to information, DC Water has been able to maximize the value of the digital asset information they have been collecting.

Learn more

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