

Transportation

Water



Structures

Environment



















- Transportation Planning
- Active Transportation
- Traffic Operations
- Urban Transportation
- Traffic Engineering
- Rail
- Transportation Structures

- Municipal Infrastructure
- Treatment and Reuse
- Hydrogeology
- Hydrotechnical

- Landscape Architecture and Urban Design
- Community Development
- Community Engagement
- · Community Planning

- Retaining Structures
- Buildings
- Bridges

- Land Management
- Biophysical and Environmental Assessments
- Fish and Fish Habitat
- Regulatory Approvals and Notifications
- Hydrogeology
- Hydrotechnical

Our Community Engagement, Environmental Management, Geomatics and 3D Visualization services support all sectors.



Proudly Western Canadian

14 IIII

500 Employees

Local Knowledge

Depth of Experience







Mountain View Regional Water Services Commission

Red Deer County, Alberta

Serving over



Across







What they needed.

With asset and maintenance data scattered between multiple hardcopy books and digital files Mountain View Regional Water Services Commission (MVRWSC) needed a centralized approach to asset management for the Anthony Henday Water Treatment Plant.

- Easy user interface and functionality
- Little to no demand for in house programmer or IT support
- Scalable asset properties adjustable by MVRWC
- A 3D plant environment representative of facility and assets
- Future proofed system receptive to additional functionality added to the program as MVRWC expands its use into different avenues of Asset Management
- A long-term partnership with ISL in the support and development of the program over time.







What we developed.

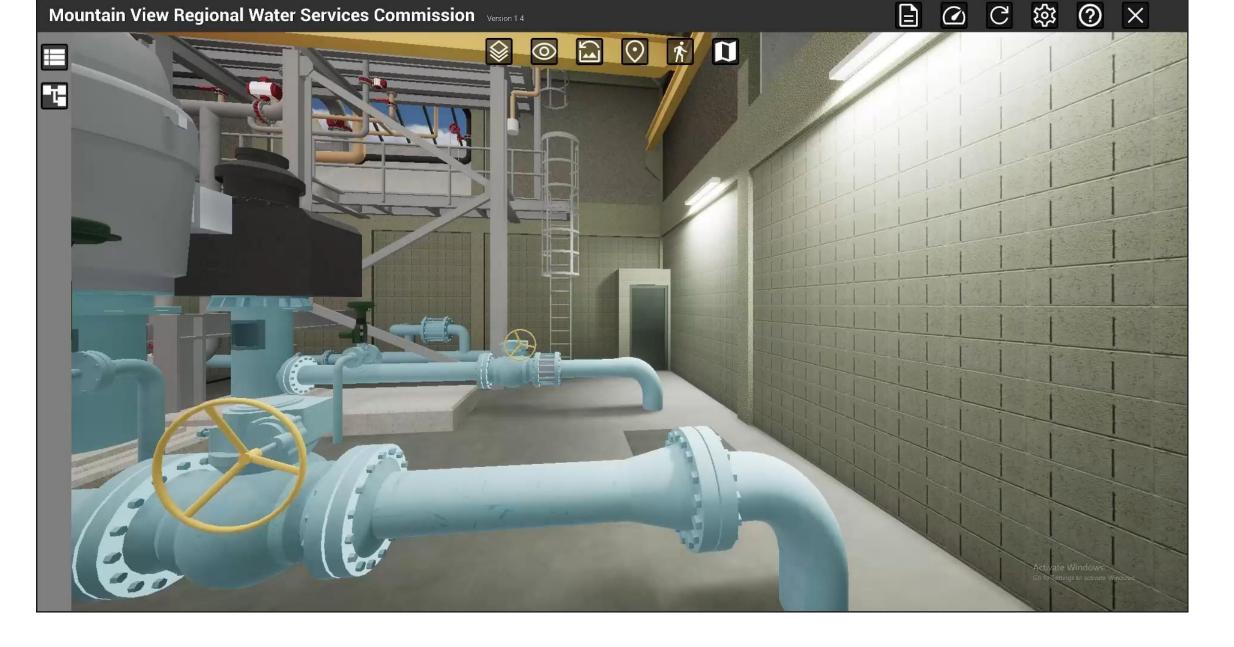
ISL developed a "low-code /no-code" stand-alone, interactive asset management application that acts as a virtual replica of their real-world plant, providing an efficient way to **unify, visualize, and access** facility data.

- A non-proprietary solution built using third party platforms
 - MVRWSC has full ownership over the app
- ✓ User-friendly interface
- ✓ Comprehensive and scalable centralized Database
 - Swiftly view and update equipment specs and maintenance stats at the click of a button
- ✓ Accurate replica of the facility allowing operators to remotely maneuver through the plant and easily access maintenance and equipment data

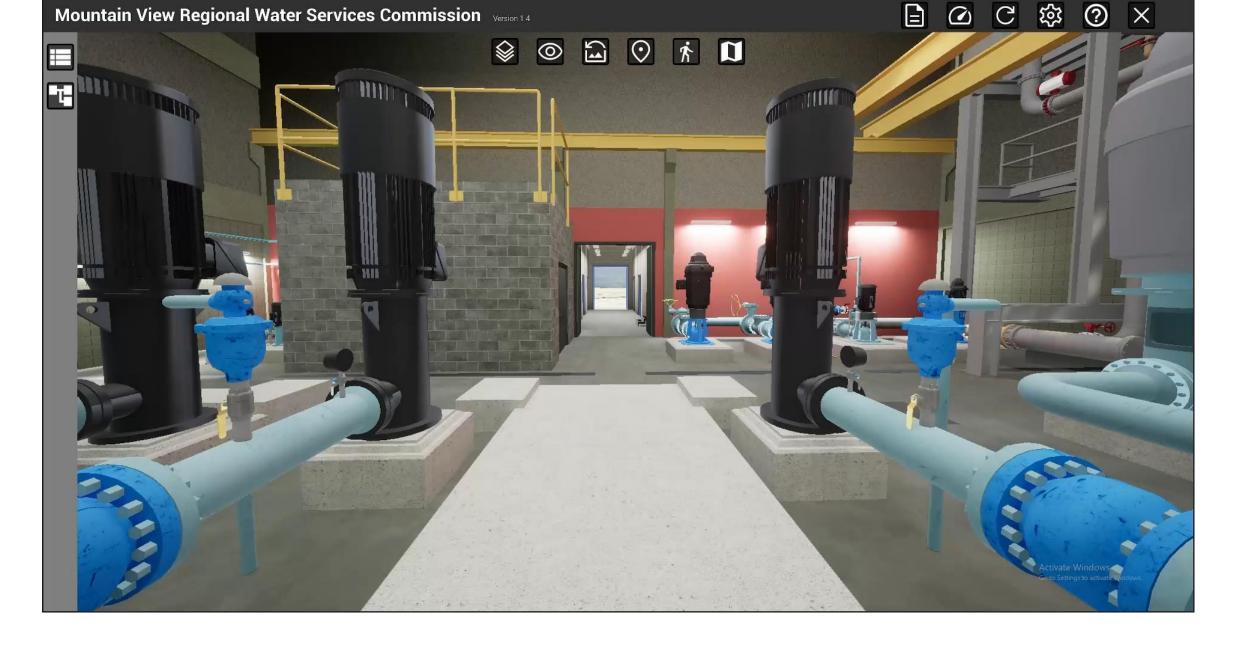






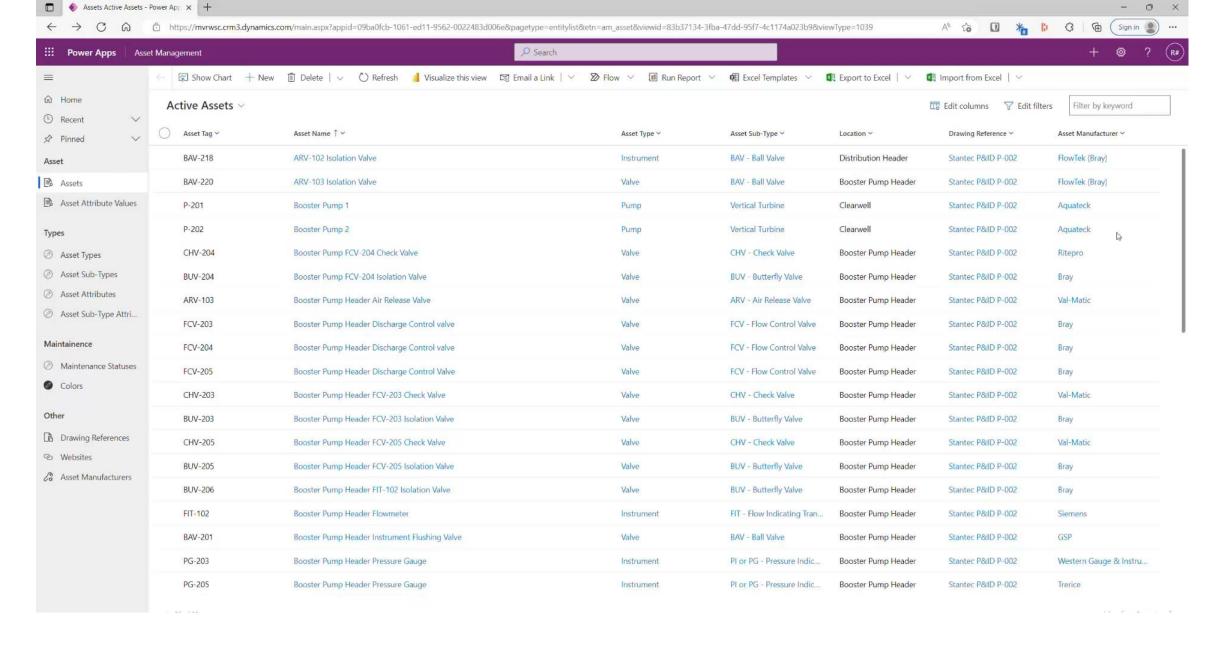






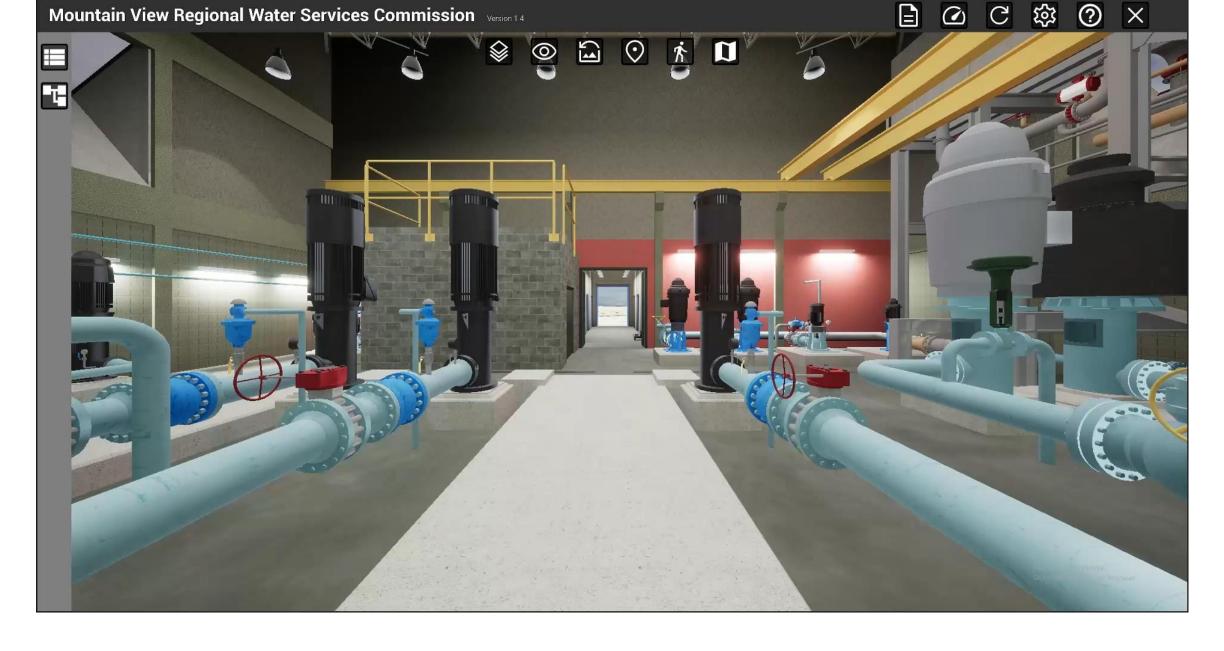






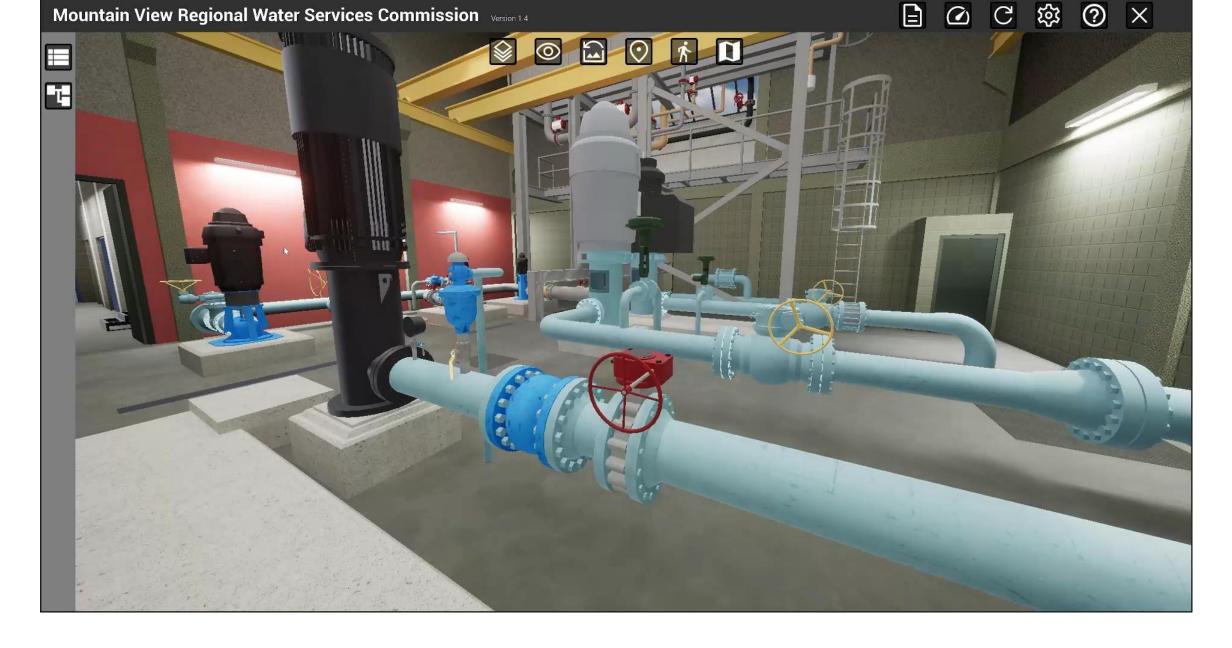




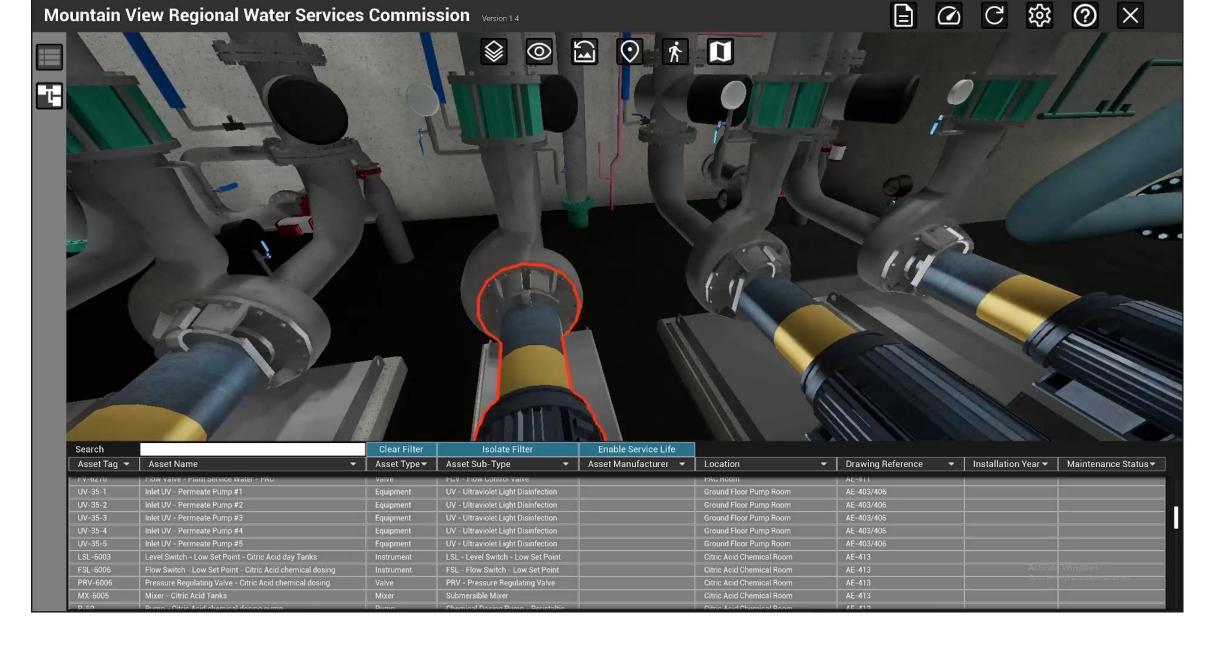






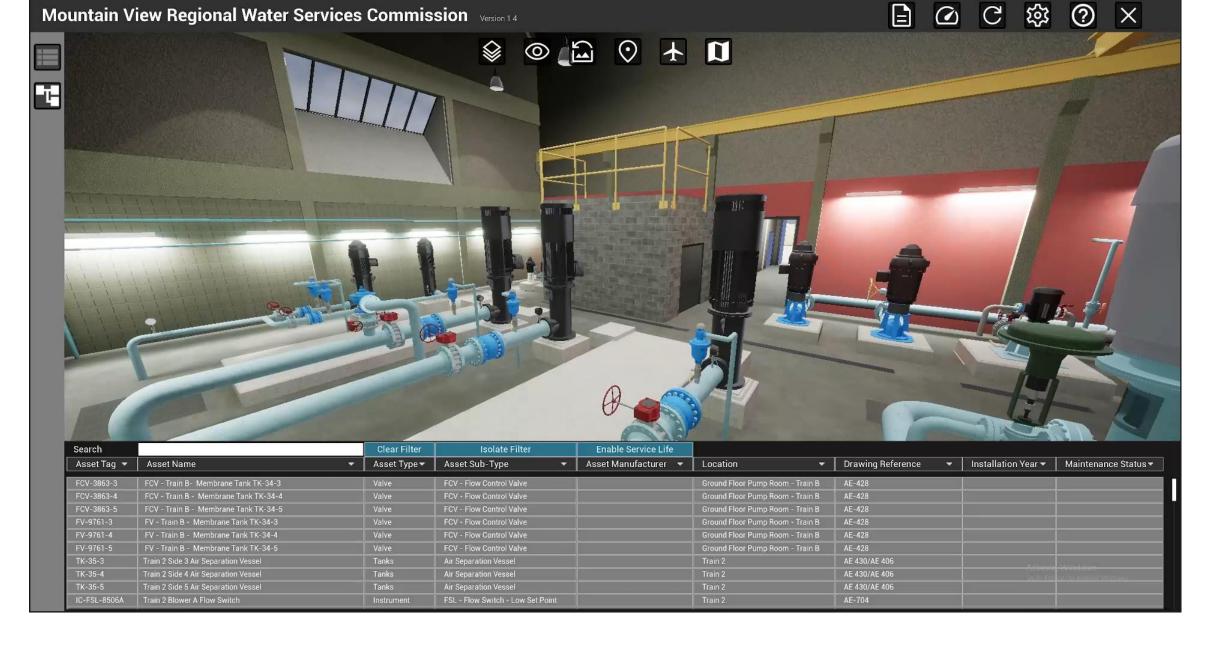






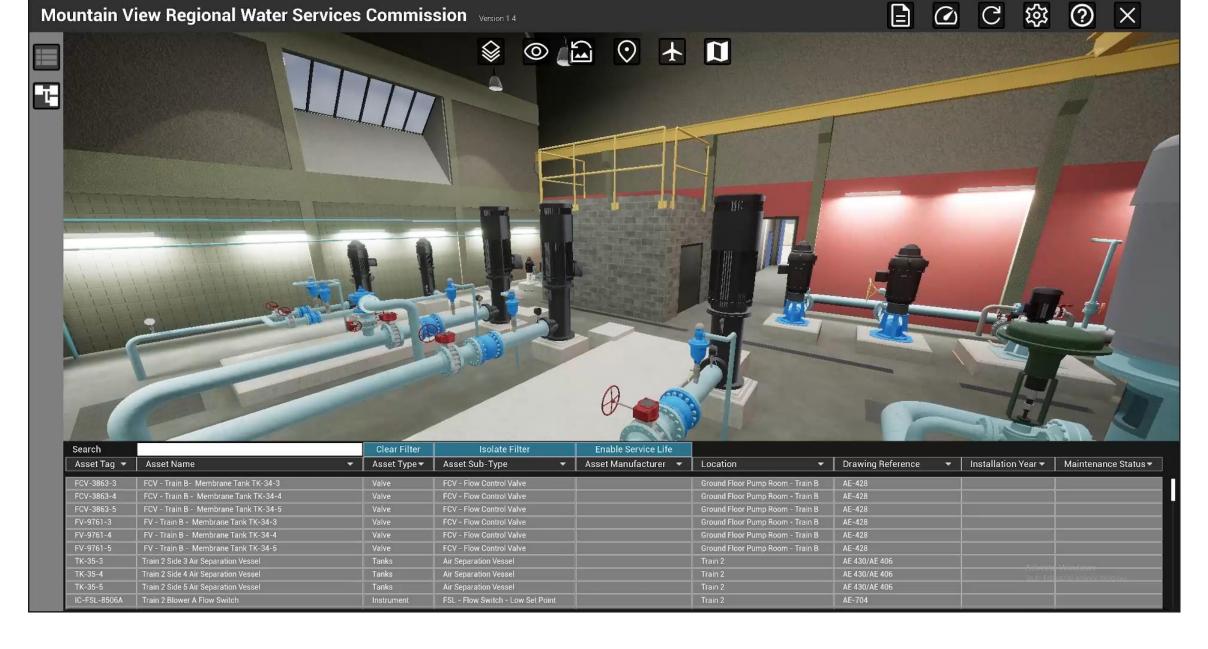








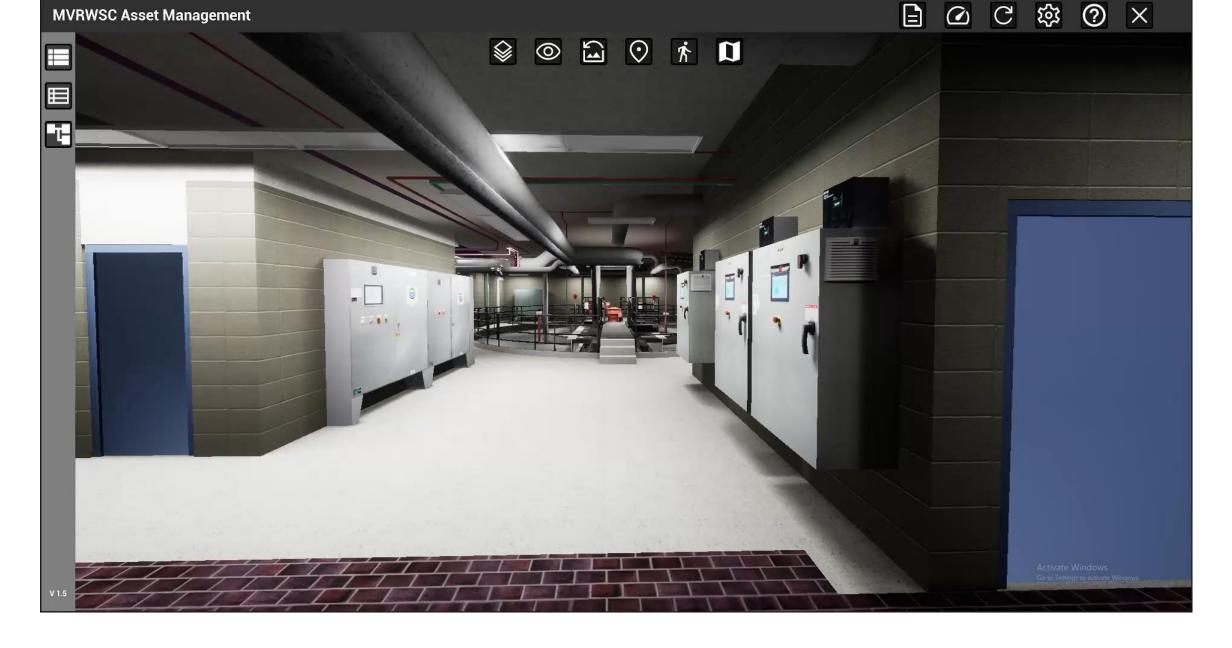








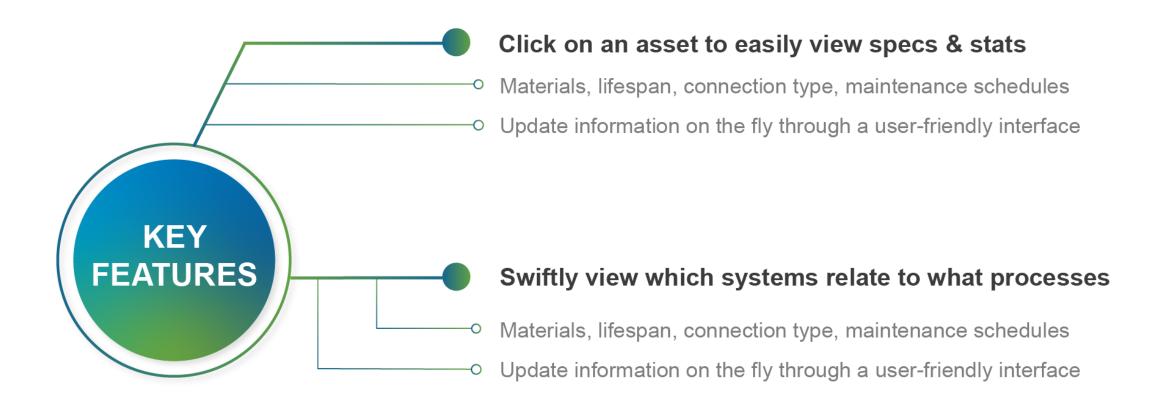








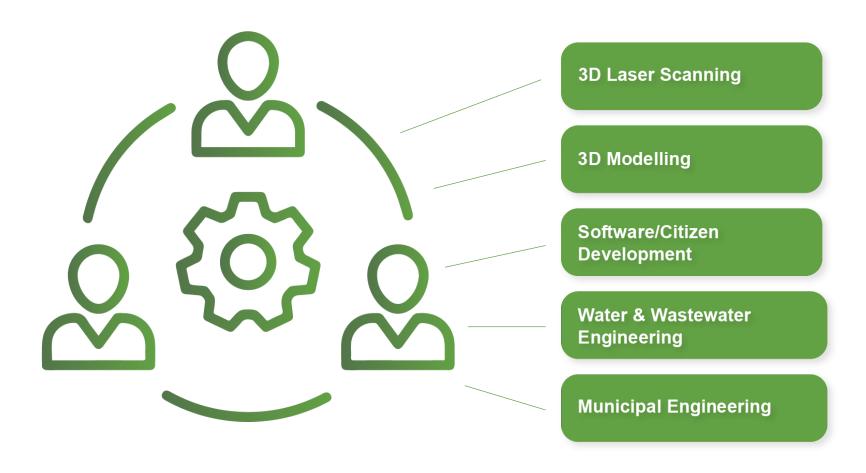
Level up your operations with stored data in one virtual place.





Our team.

ISL's Asset Management project team consists of skillful individuals with expertise across multiple disciplines:

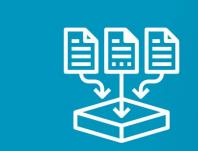






How we made it.

In collaboration with MVRWSC, we crafted an optimally tailored management platform to suit their operation needs.



Collect Data

On-site 3D laser scans & photography, SOPs, CAD files, harcopy books, P&IDs



Build 3D Model & User Interface

Virtual replica hosted through Unreal Engine



Construct Database

Back-end user interface to host and update data



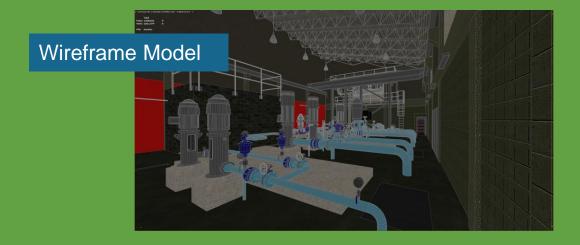
Integrate Database

Create two-way communication between 3D world and Database















How it optimizes operations.

The MVRWSC Asset Management app helps operators:

- ✓ Save time and reduce plant performance errors
- ✓ Stay organized and make better informed decisions
- ✓ Access operational data remotely
- ✓ Take a proactive versus reactive approach to plant maintenance







What's next for ISL's Asset Management Platforms?

We craft our applications keeping future upgrades and technical advancements in mind.

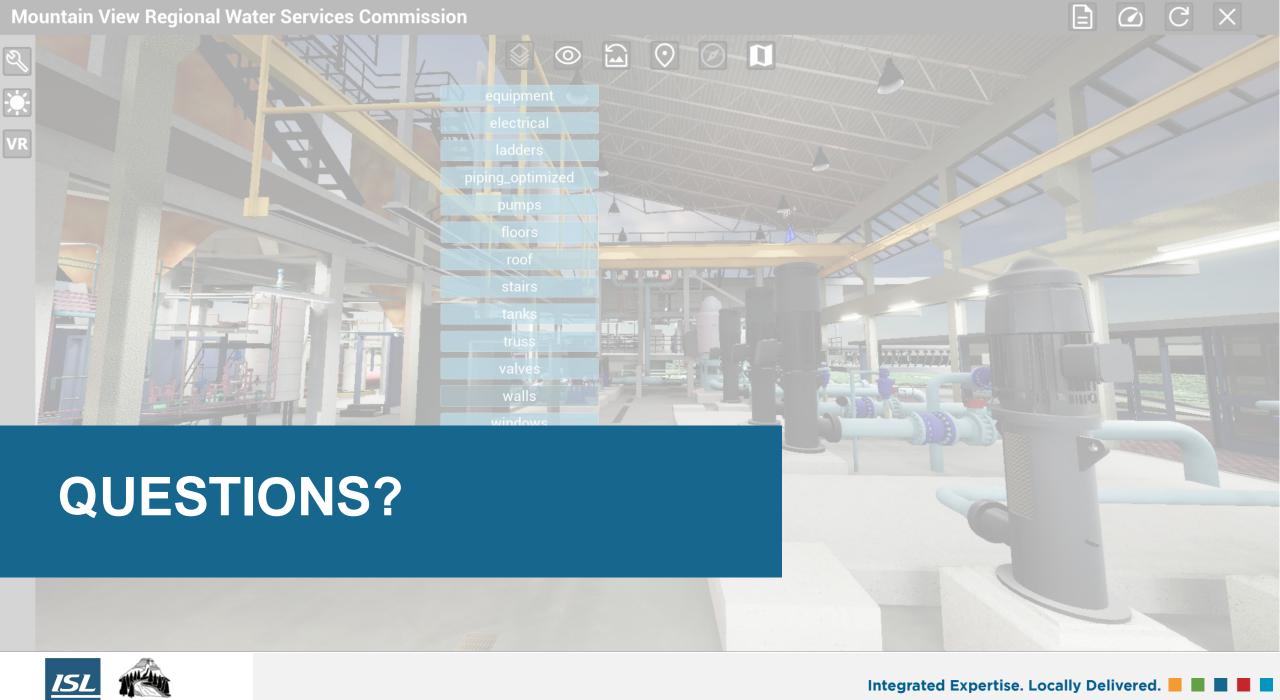
You're only limited by your imagination!

Future features:

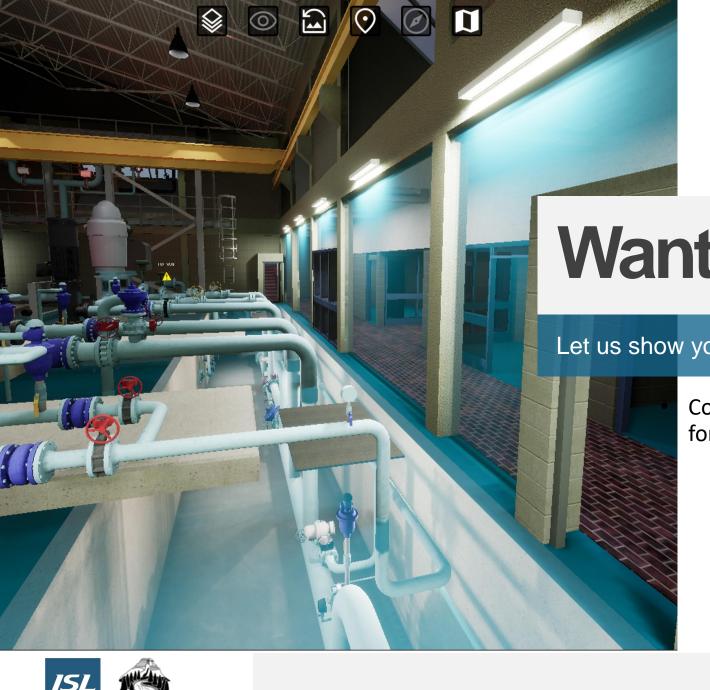
- Mobile tablet interface functionality
- Real-time data sourced by onsite sensors
- Maintenance notifications
- Generated data analysis and reports
- And more...











Want to learn more?

Let us show you how we can help optimize your plant.

Contact Garnet Dawes at gdawes@islengineering.com for more information.



