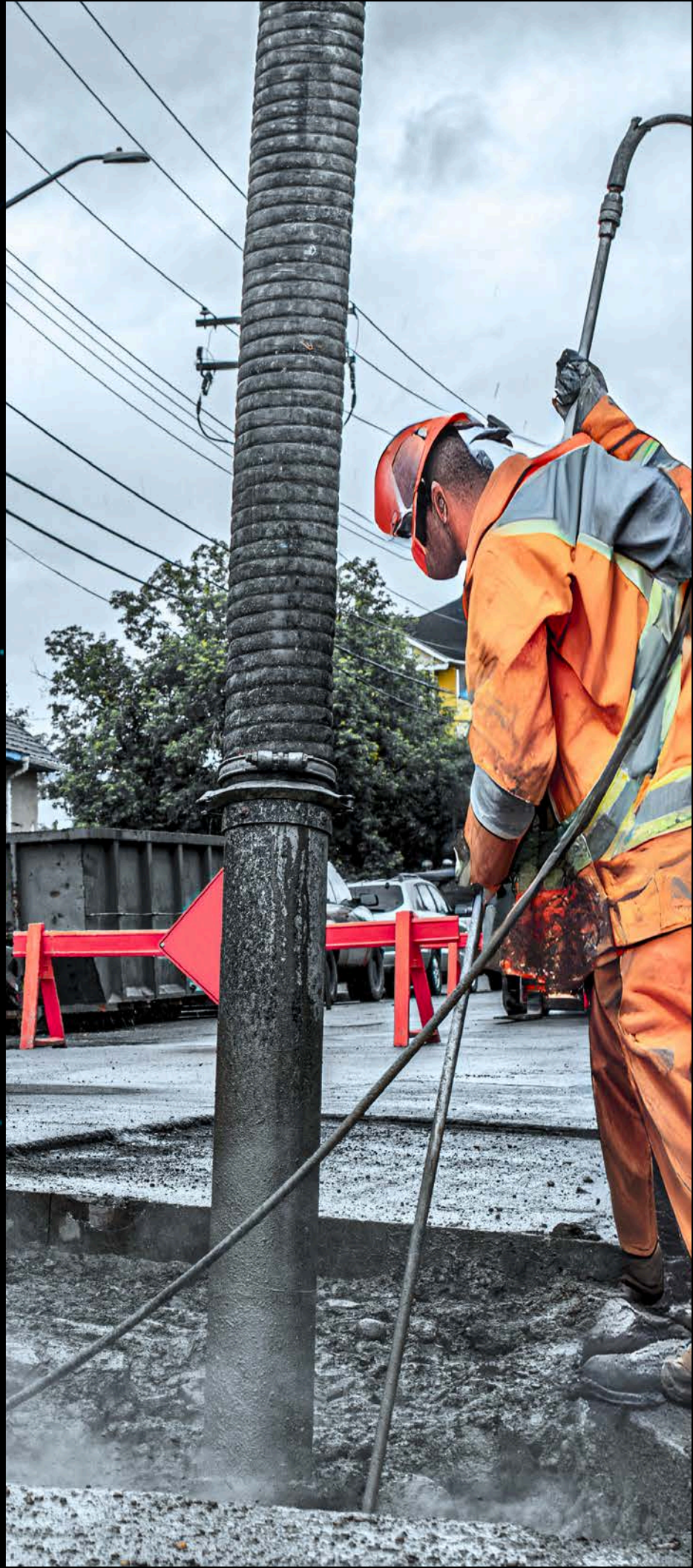




## CASE STUDY

IoT Solution for  
Municipalities:

Reliable  
Excavators,  
Stronger  
Infrastructure





## Exploring Challenges in Municipal Equipment

A leading manufacturer in hydro-excavators faced **challenges in maintaining operational efficiency and minimizing downtime**. The complexity of Cummins engines and the need for yearly updates resulted in serviceability delays, impacting customer support and satisfaction. To overcome these obstacles, the company partnered with Elevāt to transform their operations.

### Key Transformation Objectives:

Elevāt partnered with the hydro-excavator manufacturer to achieve a comprehensive set of objectives aimed at transforming their business operations:



**Track Model Year Changes:** Ensure timely updates and maintenance for different equipment models to comply with industry standards and customer expectations.



**Proactive Maintenance:** Enable real-time monitoring and alerts for maintenance needs based on equipment usage and performance data.



**Cummins Engine Predictive Analytics:** Utilize IoT data to predict engine failures and schedule preventive maintenance, reducing unplanned downtime.



**Increase Aftermarket Part Sales:** Boost revenue by leveraging IoT insights to recommend and sell aftermarket parts and services to customers.



## Elevāt IoT Implementation

Elevāt collaborated with the excavator manufacturer to develop and implement a IoT solution that addressed their specific business challenges. The partnership focused on key steps to ensure the solution was effective and aligned with the company's operational goals:

### Needs Assessment and Planning:

- Conducted an in-depth analysis of the manufacturer's operations.
- Identified critical pain points such as inefficient service and maintenance operations, the complexity of Cummins engines, and the need for timely model year updates.

### Customized IoT Solution Design:

- Designed an IoT solution that integrates sensors on critical components to capture real-time data.
- Enabled detailed engine diagnostics to capture and report data from Cummins engines.

### IoT Integration:

- Deployed a secure cloud platform to aggregate, store, and analyze data from the excavators.
- Enabled centralized monitoring and remote diagnostic capabilities for real-time communication between equipment, dealers, and the manufacturer.

### Deployment:

- Integrated the IoT system with Cummins engine predictive analytics to monitor and predict potential failures.
- Set up real-time alerts and notifications to ensure proactive maintenance scheduling and reduce unplanned downtime.

### Optimization:

- Equipped service teams with remote access tools to diagnose issues and perform over-the-air (OTA) software updates, minimizing the need for on-site visits and reducing downtime.

## Elevāt IoT Implementation

The implementation of Elevāt's IoT solutions brought a substantial increase in operational efficiency, reduced service response times, and a notable boost in revenue from aftermarket part sales. **Elevāt IoT enabled the manufacturer to track model year changes, perform proactive maintenance, and leverage Cummins engine predictive analytics, resulting in enhanced productivity, reduced downtime, and improved customer satisfaction.**

Discover how Elevāt's IoT solutions can transform your business. Contact us today to learn more about our IoT solutions and how we can help you achieve your operational goals.

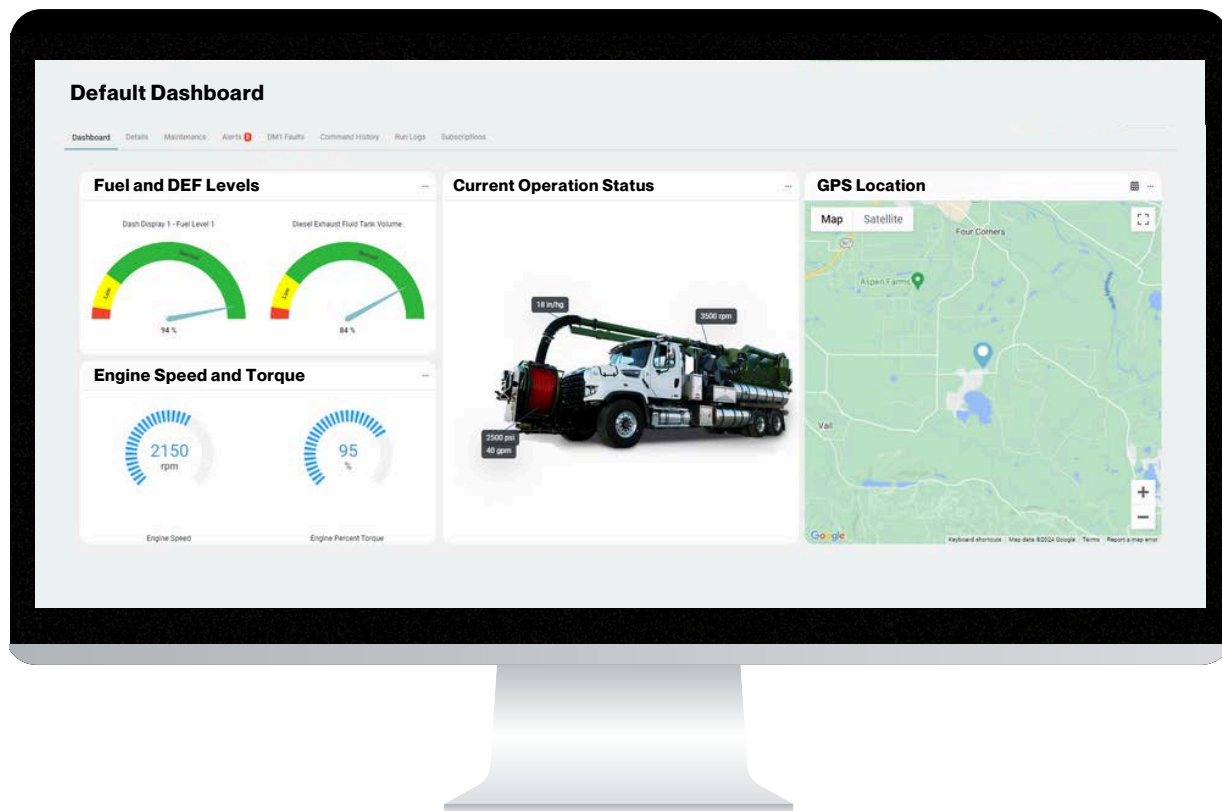


[info@elevāt-iot.com](mailto:info@elevāt-iot.com)



[www.elevāt-iot.com](http://www.elevāt-iot.com)

## Elevāt Web Application - Hydro-Excavator



Copyright © 2024. Elevāt Inc. All rights reserved.