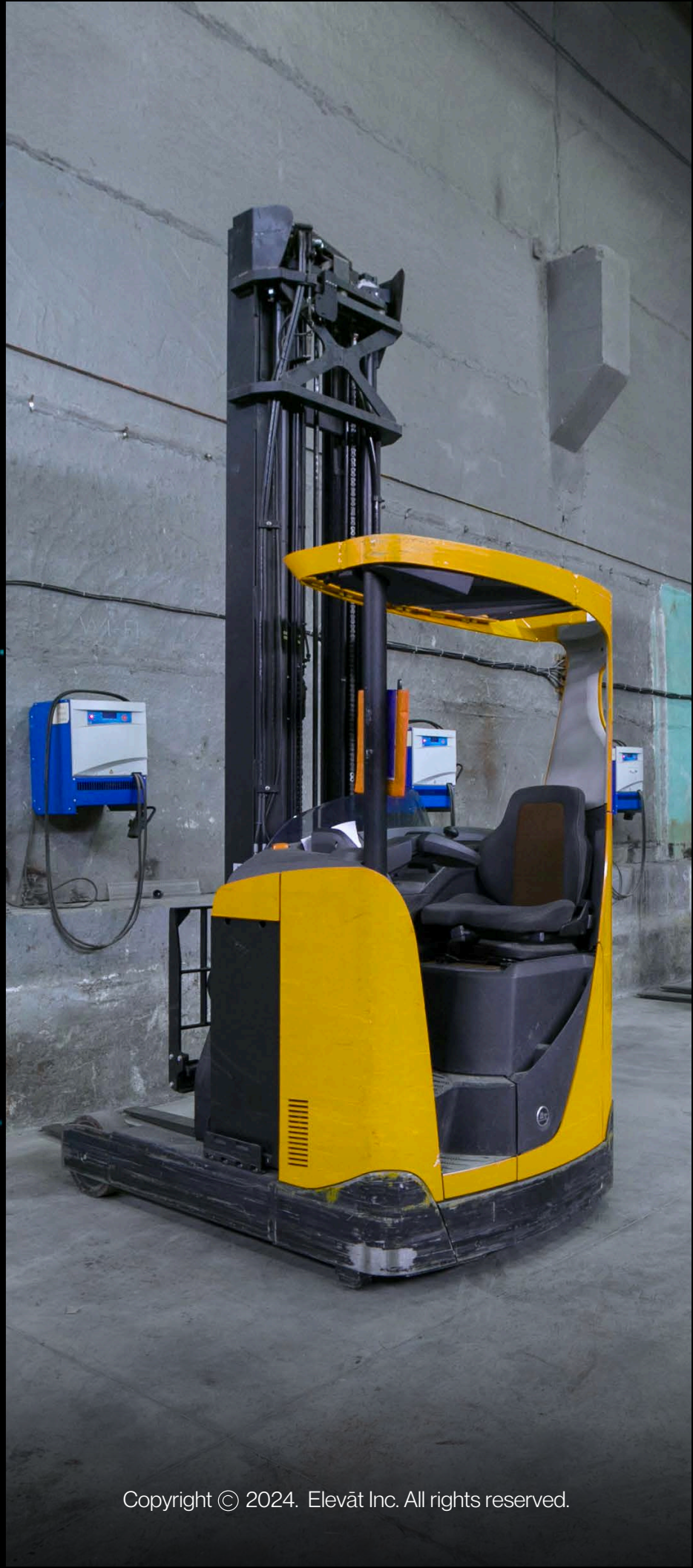
elevāt

CASE STUDY

IoT Solution for Electric Vehicles:

Elevating Electric Efficiency



Exploring Challenges in Electric Machinery

A prominent manufacturer known for its construction machinery faced significant **challenges in troubleshooting complex controller electronics and machine subsystem components within their electric forklift systems.** The manufacturer required a robust solution to share critical data with system design specialists, enabling continuous improvement throughout the machine lifecycle.

Key Transformation Objectives:

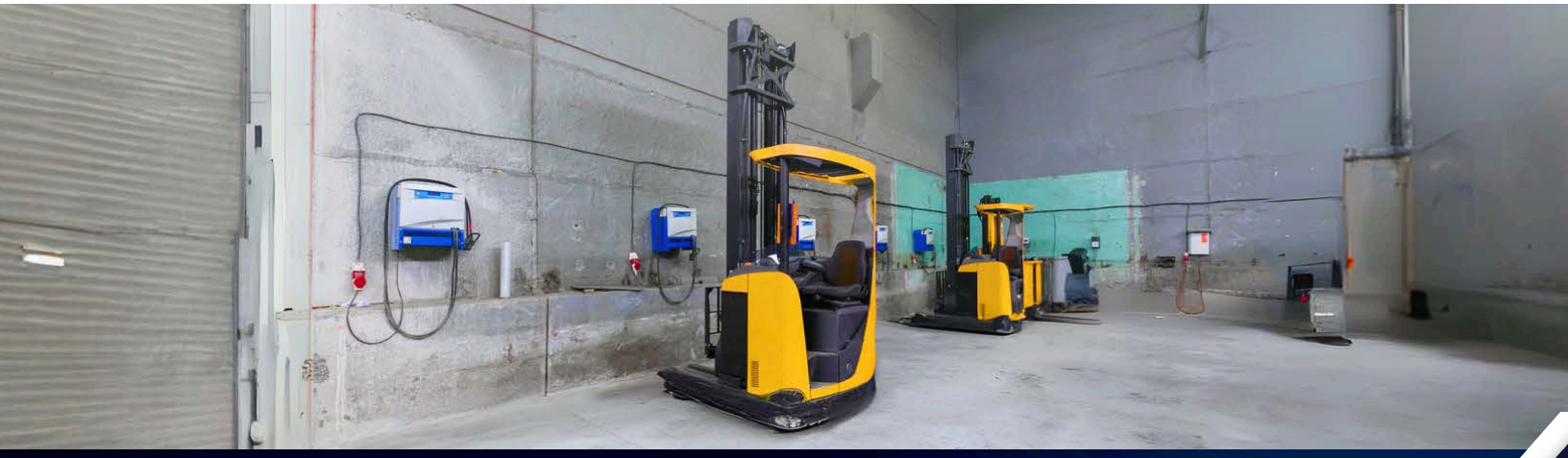
Elevāt partnered with the construction manufacturer to achieve a set of objectives aimed at transforming their business operations:

Improve Equipment Readiness: Ensure that electric forklifts are always ready for deployment with minimal downtime and optimal performance.

Enhance Service and Maintenance: Streamline service and maintenance processes to ensure reliable field deployment and improve customer confidence in the new technology.

Sustainability and Continuous Improvement: Provide real-time operational data for unique subsystems to facilitate continuous improvement and sustainability.

Data Sharing for Lifecycle Management: Enable seamless data sharing with system specialists and service providers to enhance troubleshooting and improvements.



Elevāt IoT Implementation

Elevāt collaborated with the manufacturer to develop an IoT solution for their challenges. The partnership focused on key steps to ensure the solution aligned with the company's goals:

Needs Assessment and Planning:

- Conducted a thorough analysis of the manufacturer's operational challenges.
- Identified business-critical needs for real-time monitoring and tracking of assets and efficient maintenance processes.

Customized IoT Solution Design:

- Developed custom dashboards, remote diagnostics, and data sharing across subsystems.
- Embedded portal features such as engine diagnostics, fault code management, and advanced automation system monitoring.

IoT Deployment:

- **Run Log on Ignition:** Implemented the *Run Log on Ignition* feature to monitor and understand system behavior in varied operational environments.
- **Request for Service:** Deployed a *Request for Service* feature that allows operators to send real-time notifications to upstream support resources, enhancing service response times.
- **Real-Time Data Sharing:** Facilitated real-time data sharing with system design specialists and critical service providers for rapid machine troubleshooting.
- **OEM Ecosystem Architecture:** Leveraged Elevāt's OEM ecosystem architecture to ensure meaningful data sharing across key users, critical service providers, and technology partners.

Optimization:

- Ensured ongoing system optimization to continuously enhance operational efficiency and equipment performance.

Elevāt IoT Implementation

The implementation of Elevāt's IoT solutions delivered impressive results. The manufacturer achieved a significant reduction in downtime, an increase in geographic tracking efficiency, improved maintenance processes, and enhanced data sharing capabilities. **Elevāt helped solve operational challenges, resulting in enhanced productivity, reduced costs, and greater 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.

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Elevāt Web Application - Electric Vehicle Monitoring