

MATE

Monitoring and Telemetric Analysis of Equipment

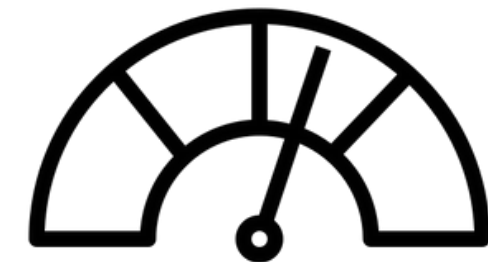
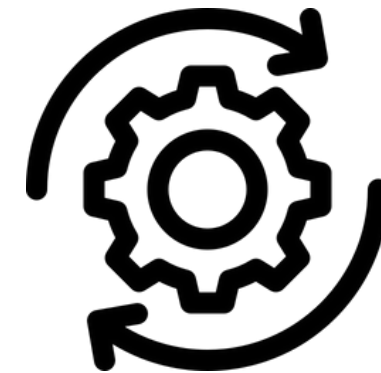
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Objectives

Integration of a system for automated and scheduled control of water flow from a well.



Enable real-time notifications and the sending of instructions



Monitor key parameters such as levels, pressures, and flow rates.

Solutions

REMOTE AND AUTOMATED CONTROL.



PARAMETER MONITORING.



REAL-TIME ALERTS.



USE OF IOT TECHNOLOGY.



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Benefits



Alert for equipment failure and intrusion at remote sites.



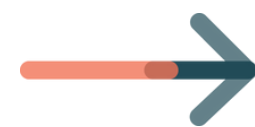
Cloud-based event logging and analytics.



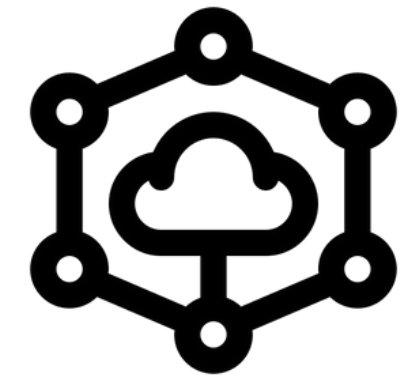
Detailed reporting and predictive analysis of events.



Password entry required to send instructions.



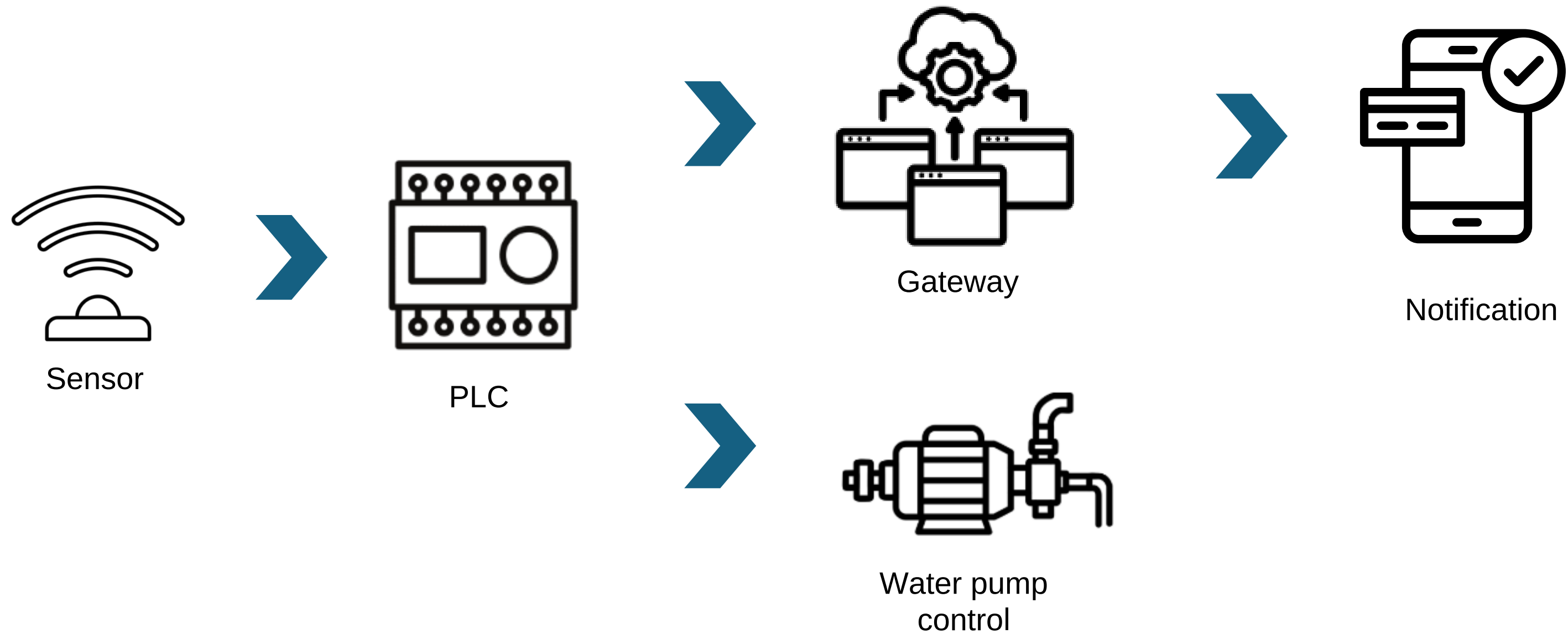
Reduced impact on the electrical grid during startup and minimized mechanical stress on the motor.



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Proof of Concept

- **Cloud Application:** Store real-time data and review the collected information later.
- **HMI:** Allows monitoring and control of the system.
- **Pump:** A pumping system to extract water from the well.



SaaS

Software as a Service

SCOPE

Real-time Notifications
Real-time Monitoring Web Interface
Efficiency of Parameters
Data Analytics
Seamless Communication Integration

DATA

User Activity Log
Faults
Water Level
Connection Status

INFRASTRUCTURE

IoT System
Cloud Server
Power Cabinet

BENEFITS

- Security Alert
- Cost Savings
- Event Log
- Security
- Remote Control and Monitorin



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