

IoT—How Connectivity Drives Operational Intelligence

Life Is On | Schneider Electric

At Schneider Electric, our mission is to serve our customers by developing innovative products and solutions that simplify the lives of those who use them. We bring together our expertise and solutions to drive new possibilities for efficiency and savings. As the global specialist in energy management and automation, we are committed to worldwide improvement in connectivity, sustainability, efficiency, and reliability and safety in five primary areas: in our homes, cities, industries, buildings and in the cloud.

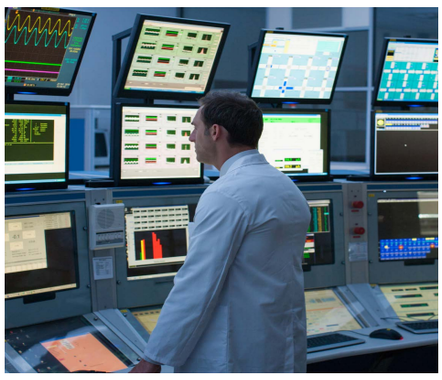
A leading **Pepsi bottling plant** turns efficiency and equipment performance data from 30 million cases, 500 product types, and 5 production lines into smart decisions on the shop floor and predictable on-schedule delivery.

Connectivity

The recent Internet of Things (IoT) momentum has been enabled through a broad adherence to open standards (such as Ethernet) and by technology breakthroughs in the area of data aggregation middleware. Schneider Electric delivers open, connected solutions at each IoT-driven intelligent ecosystem layer: the connected, decentralised device layer (sensors, drives, meters, PLCs, controls, switchgear), the platform layer (cloud services, middleware, physical infrastructure architectures), and the on-premise central control layer (operational intelligence, remote monitoring, predictive analysis, simulation, cloud analytics).

Sustainability

Corporate sustainability programs of the past were rarely successful due to difficulties in implementation and measurement. Schneider Electric IoT capabilities have helped to change all of that. You can't fix what you can't measure. By establishing robust smart monitoring of water and electricity assets, a baseline can be established to track how these resources are consumed. Sustainability plans can now be built on accurate consumption data so that measureable improvements can be executed.



Efficiency

Schneider Electric tools help data centre, plant, and smart grid operators to become more efficient by sorting through mountains of data (eliminating false alarms or nuisance alarms) and by generating dashboards that consolidate the information coming in from all parts of the extended network. Instead of gridlock, a smooth flow of information is created which allows for greater operational intelligence and higher-quality decisions.

Reliability / Safety

IoT is broadening the scope of where both power protection and security are needed, as entire chains of communication can be disrupted by the breakdown of a single device. Schneider Electric leverages the power of IoT and big data to maximize safety and reliability through high-precision automation and control, training and simulation, the generation of 'what if' scenarios, robust remote management, predictive maintenance, managed services, and advanced analytics. Power protection and cyber security considerations are imbedded into our product designs in order to strengthen overall network reliability.

This summary has been drawn from a more detailed essay 'Schneider Electric: IoT—How Connectivity Drives Operational Intelligence'.