IOT IN MANUFACTURING

WHY IOT

With IoT, it is now possible to digitize factories, plants, and production facilities better than ever before, but the real value is in deriving business benefits and creating new business models. Manufacturers tend to focus on optimizing business processes, reduce costs, balancing supply with demand and productivity, and improve predictability of their production facilities.

IoT solutions in manufacturing enable process optimization, increased performance, efficiency and productivity in 2 basic steps:

Step 1: Initially, companies want to achieve product tracking and quality control in real-time monitoring, including AI & ML and servitization.

Step 2: In the next phase, production processes can be integrated into the optimization of the entire supply chain by integrating procurement, planning, sales and logistics processes.

A study by Deloitte showed that, on average, predictive maintenance increases productivity by 25%, reduces failures by 70% and maintenance costs by 25%.

BENEFITS OF USING IOT

- Productivity boost and process management with product tracking
- Control and management of key production facilities (preventative and predictive maintenance)
- Optimization of material and energy consumption
- Optimization of the entire supply chain (with integration of purchasing, planning and sales-logistics processes)
- Fleet management and Route Optimization

HOW WE CAN HELP YOU

1. **Defining IoT Strategy**
   - Analyses of your business challenges,
   - IoT Strategy and new business processes
2. **Proposing architecture and Design**
   - Planning, integration and implementation of IoT environment tailored to your needs.

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3. **Implementation services**
   - Deployment, management and integration of data and information systems.

4. **Creating a Data Environment**
   - Creation of data environment for the needs of AI, machine learning and other analytical processes.

5. **Deployment of analytical systems and platforms**
   - Optimize your operational and business decision-making with real-time data analysis.

OUR TECHNOLOGIES

MapR Converged Data Platform enables the industry to mine into the operational data by tapping into all data–sensors, operational applications, precision robots, and fleet management – to converge it onto one platform for processing and analysis, regardless of where the data is located. It is a fundamental platform to start creating advanced AI and ML applications.

MapR enables simultaneous analytics and applications, so manufacturers can connect machines, people, and analytics to derive business value from the digitization revolution that this industry is undergoing and develop new business models.

Exsaol is a high-performance s database, designed specifically for in-memory analytics in real-time. It is the fastest analytics database in the world, which enables AI & ML. Exasol provides a high-level of stability, flexibility and is a future-proof solution.

Talend Cloud Integration Platform gives users the power to harness data from any source and migrate it to virtually any application, location, or analytics tool. 900+ connectors make it easy to migrate data between applications while providing the agility needed to stay ahead of the IoT data curve.

MicroStrategy is a powerful BI and analytics platform, designed for development and management of all BI systems, enabling a standardized data visualization. With , comprehensive toolsets, variety of data connectors, and scalable, open architecture, MicroStrategy ensures you have everything you need to extend access to analytics across every team and business function.

WHY CHOOSE OUR SOLUTION?

Our solutions will allow you to reach a competitive edge both in operational and analytical environments because they excel in performance, reliability and support integration with your existing systems.

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