Toward sustainable manufacturing

In the world of manufacturing, we see the impact of severe issues and unprecedented disasters such as pandemics, political crises, and labor imbalances. As uncertainties increase more and more, the importance of strengthening the ability to respond to changes is increasing in the manufacturing industry. In addition, there is a need to contribute to the realization of a sustainable society through "sustainable manufacturing" through business model transformation, while transforming operations itself, organizations, processes toward circular and traceable manufacturing by utilizing digital technology.

Digital transformation throughout the manufacturing life cycle with CPS

The key element in the implementation of the concepts of Industry 4.0 is the idea of cyber-physical systems (CPS) which promotes the computerization of manufacturing to make decentralized decisions. The goal is to facilitate appropriate decision-making at the right time, thereby increasing efficiency and productivity.

Many industrial companies often find it difficult to manage diverse IT/OT systems across the enterprise. Furthermore, a vendor lock-in leads to a lack of flexibility and control over their data. And since there is usually no interoperability between OT and IT, there is no insight into the data that is generated at the OT side. COLMINA builds a bridge between OT and IT and enables companies to manage and utilize the production data for intuitive visualization and groundbreaking analytics.
Evolution of DX and sustainable manufacturing with COLMINA Services

The innovation concept that digitalizes your production environment Industry 4.0 is here. COLMINA, Fujitsu’s DX Solution for manufacturing companies, makes the most of your data and enhances the flexibility, speed and efficiency of your production processes.

COLMINA is cloud based service for more efficient manufacturing operations and efficient use of machine tools. With COLMINA service, customers will be able to use a variety of business systems at an early stage with while keeping initial investments under control, thereby contributing to the efficiency of internal operations, the advancement of customer services, and the acceleration of DX.

Evolution of DX and sustainable manufacturing with COLMINA Services

Service Offering Configuration

The COLMINA service will help you achieve a smart factory earlier.

**Visualization Analysis**

**Accumulate**

**Collect Process**

**Factory Data Analysis Templates**

**Factory Optimization Dashboard**

**Equipment Inspection**

**Cloud / Edge Platform**

Collects and processes data generated at the factory, such as machine tool operation data, and sends it to the cloud.

**Global Standard I/F (Supports more than 250 FA Devices)**

**Customer Factory Network**
COLMINA services allows you to start working on DX quickly and at low initial cost.

Our Services include:

1) Factory Data Analysis Templates:
   Visualize analysis graphs and improvement points of issues by combining analysis template based on success stories in-house practices

2) Factory Optimization Dashboard:
   Visualize the various KPIs of the factory graphically and visualize them in real time

3) Equipment Inspection:
   Complete everything from inspection input to report preparation at the site. Grasp the status of equipment and inspections at a glance.

Quick decision-making

- Enables you to grasp the KPIs of each site in real time and make speedy decision
- Detects factory abnormalities in real time and enables quick instructions to be given to the site

Minimize impacts on Production

- Flexible adaption of production processes in critical situation eg. Machine failure
- Compare production plans based on individual KPIs and choose

Increase facility and resource availability

- Identifies interrelations and causes of low utilization rates
- Checks production and utilization statuses

Intelligent Dashboard

- Visualizes relevant factory data
- Allows roll-up aggregation and drill down deep dives
Fujitsu has the DNA of manufacturing and aim to inspire sustainable manufacturing. We have been working on Smart Factory and manufacturing Digital transformation (DX) at our own factories and have knowledge and abundant references gained through practical manufacturing sites. Fujitsu has been empowering people in the manufacturing industry for many years. We combine our longstanding experience as an ICT and digital transformation partner with revolutionary technologies such as artificial intelligence and high-performance computing to connect the entire supply chain with security and traceability. We strive for the harmonious coexistence of people and the earth in a borderless and diverse world.

Why Fujitsu?

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Let’s talk about how Fujitsu can help you visualize & analyze your manufacturing data besides digitally inspecting your equipment from your factory.

Fujitsu as your DX Partner

Fujitsu is enthusiastic to work together as your trusted DX partner in Digitization, Digitalization and Digital Transformation (DX) journey to create and maximize the value created by your business.

Supporting you to Reimagine Business and Experience

Fujitsu Thailand provide end to end support approach to our customers aligning with their company vision and strategies, from Smart Factory Assessment, DX consulting to solution Implementation and execution, Co-Designing solutions from infrastructure, platform, cloud service to software, applications, data analytics and other digital services.

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