

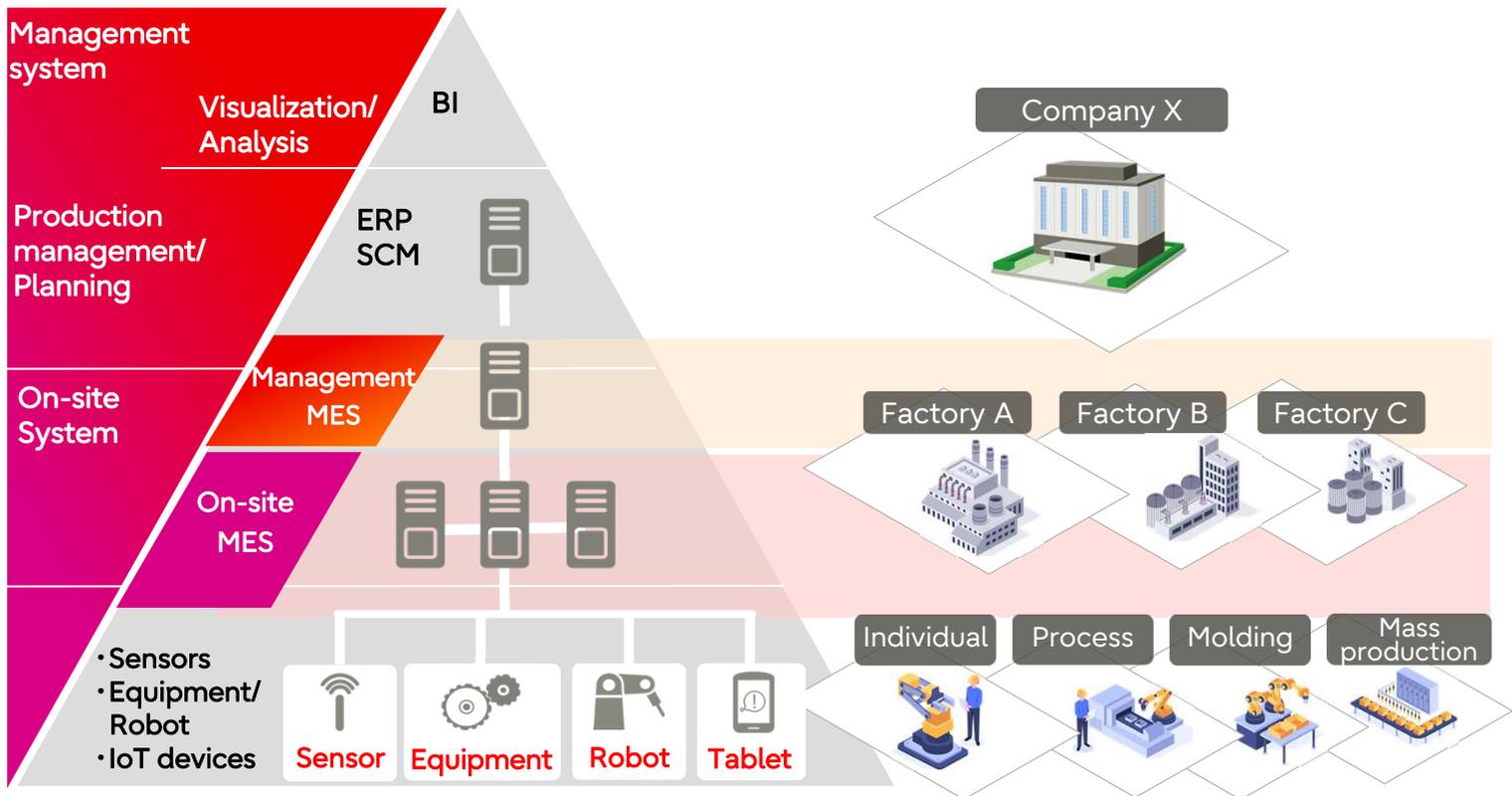
Manufacturing cluster that realizes manufacturing DX



Improving productivity and quality of entire supply chain by combining management MES with on-site MES
 Creation of on-site kaizen culture linked to visualization and management contribution across the entire company that is required for decision-making

Manufacturing cluster

- Achieving sustainable manufacturing that can respond to changes by more firmly linking management systems and on-site systems throughout the supply chain



Data-driven manufacturing realization with integrated information

Standardized information that supports the aggregation and analysis of information forms the basis of management decisions

Sales Order/Purchase Information

Master schedule/Intermediate schedule plan

Order process instructions/ Results

Quality assurance standards

Integration of standardized information and on-site information

Real information optimized for various manufacturing methods

Detailed schedule/Daily planning

Work instructions/Results

Quality assurance compliance trail

On-site/Real Information

The form of MES that enables new value creation by responding to changes with "Management MES" x "On-site MES"

Management MES

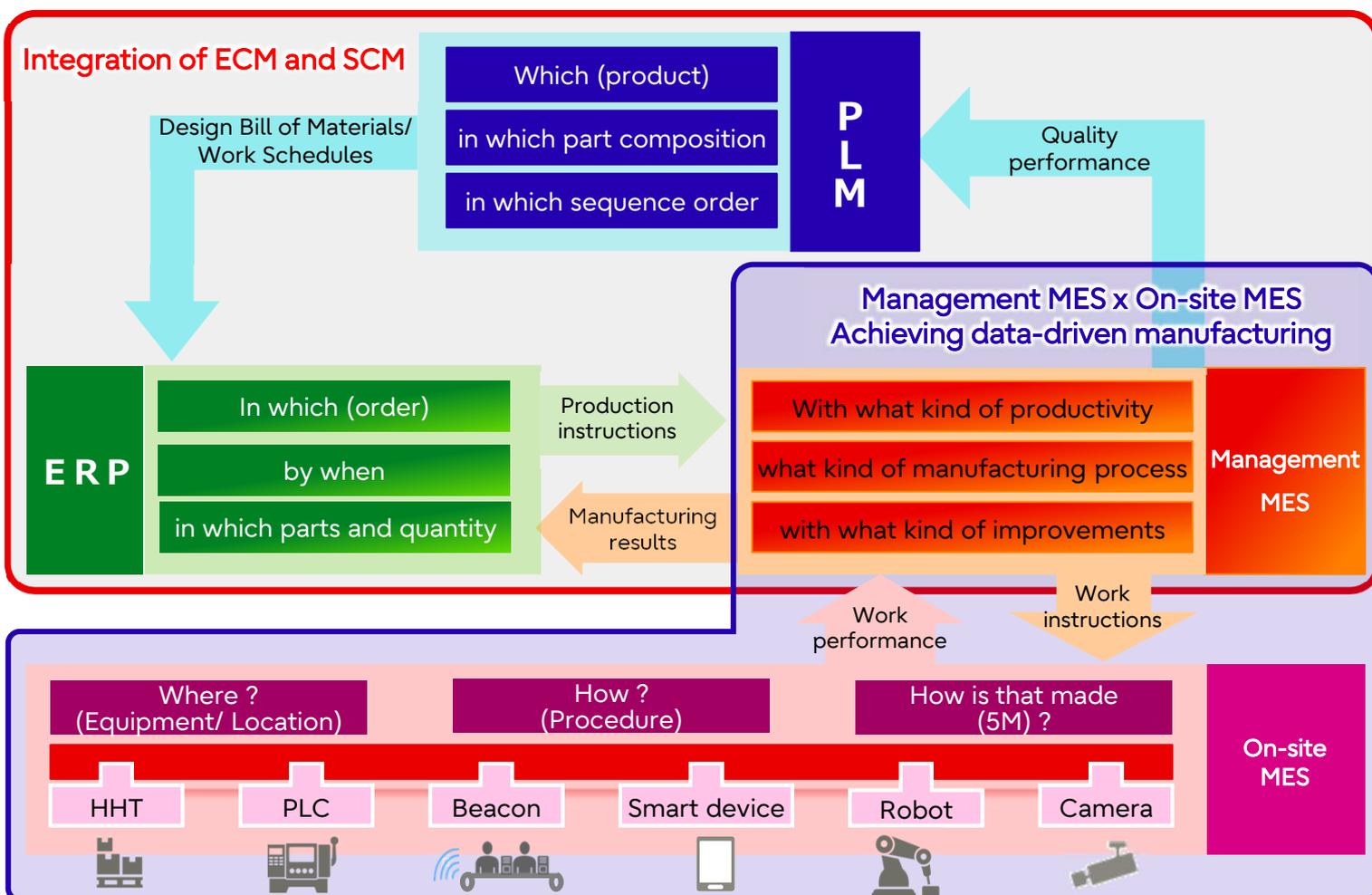
Integrate with ERP information as a position of the site basic system. Global process standardization and centralized management of 5M (*1) information enable rapid management decisions.

- ▶ Integration of information related to manufacturing, both inside and outside the company
- ▶ Cross-organizational visualization necessary for decision-making
- ▶ Standardization of manufacturing processes

On-Site MES

Support the "on-site kaizen culture". Digitally create an environment where one can concentrate on manufacturing. (Digital Working Standard)

- ▶ Centralization of on-site information
- ▶ Digitalization of on-site information without burden
- ▶ Flexibility according to manufacturing site conditions



*1 The 5M stands for Men, Method, Machines, Materials, Measurement

All MES solutions provided by Fujitsu

Management MES

SAP® Digital Manufacturing Cloud (DMC)

Cloud-based manufacturing execution management and analysis solution

- DMC for Execution
- DMC for Resource Orchestration
- DMC for Insights
- ▶ Industry 4.0 Manufacturing on-site solutions
- ▶ Cloud-based work level scheduling
- ▶ Enable data-driven performance management

Cloud-based management MES

Performance management

MES global deployment

Work schedule

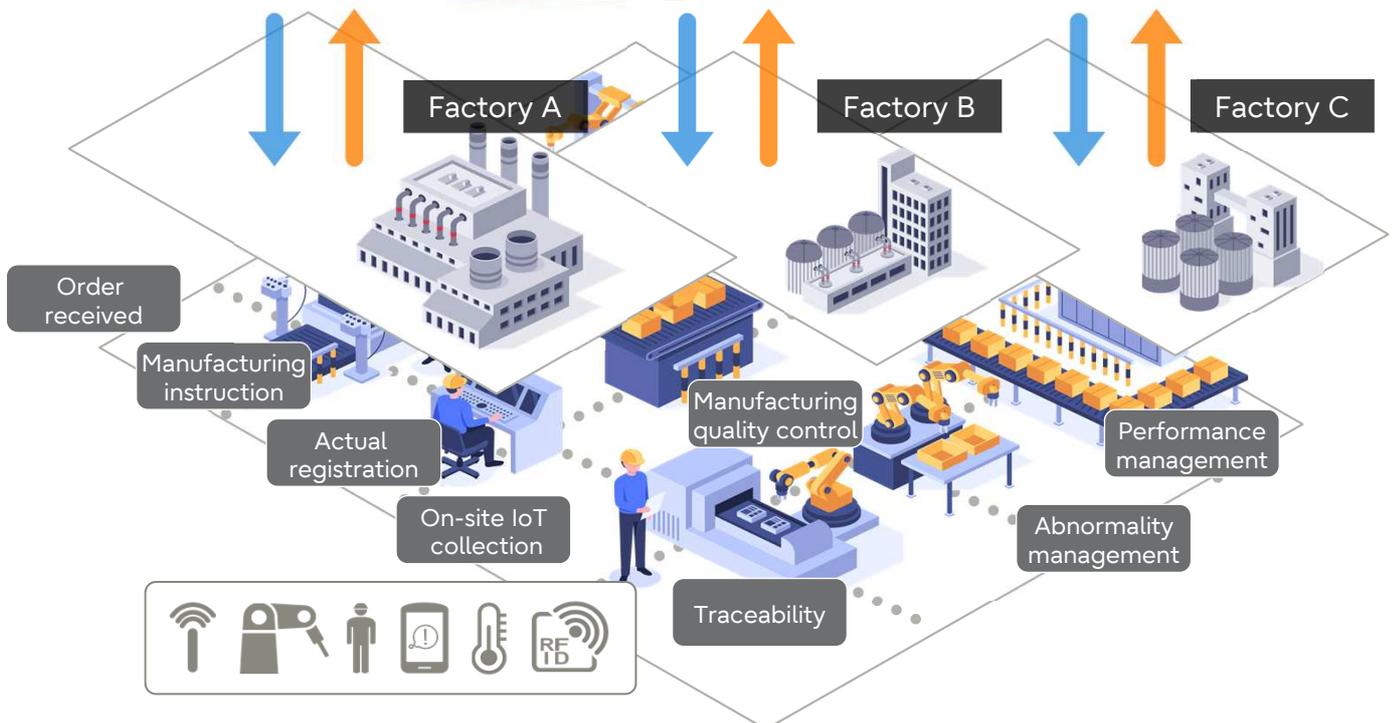
ERP

SAP S/4HANA

SAP® Digital Manufacturing Cloud (DMC)

- Centralized manufacturing management
- Multi-site operation analysis
- Corporate level KPI dashboard

ERP/MES integrated information (Management MES)



Global manufacturing analytics dashboard



All information from multiple locations
Sharing / comparison / analysis

Worker OEE Dashboard



Operability analysis based on detailed performance information

Operation routing definition



Issuing of Order-based design/configuration/work process instructions

Resource orchestration



Collecting detailed manufacturing procedures and manufacturing quality performance information

All MES solutions provided by Fujitsu

COLMINA MES

On-site MES

Site-specific MES solution

- ▶ Site-specific manufacturing execution management and productivity improvement support solution
- ▶ Flexible response to production forms and management units
- ▶ Achieving "no waiting" and "no thinking" on site

On-site-specific MES

Flexible device application

Support for various types of production

ERP

Management MES

Loose coupling

On-site MES

Multifunctional work support

Cell production digital instruction

Input of HHT/smartphone sensors

Workplan workforce assignment

Real-time dispatch

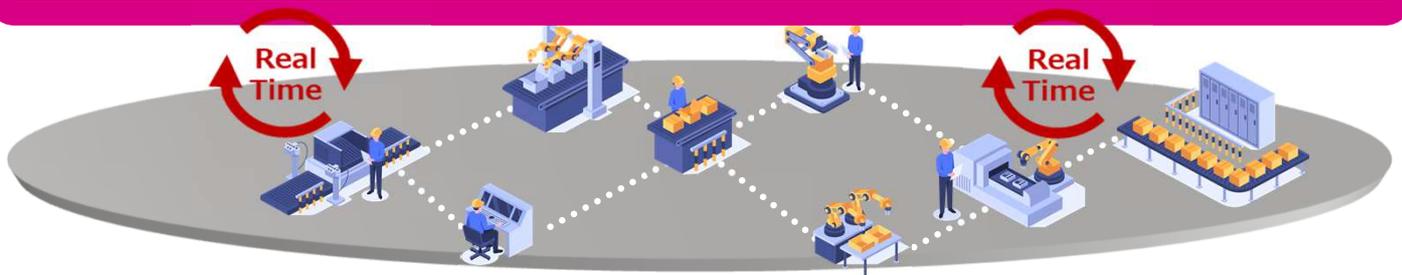
Teamwork support

Real-time serving instruction

3 Plan model

Digital indicator light

Signboard



Result collection and digital instruction with reduced burden on workers

Real-time monitoring of production status linked to on-site information

Contact

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FUJITSU Manufacturing Industry Solution COLMINA MES

<https://www.fujitsu.com/jp/solutions/industry/manufacturing/monozukuri-total-support/solutions/emes/>

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