

To support the future development of coating sites

We will innovate coating sites with DX.

O-Well Line Data Analysis System

O-WELL CORPORATION

Environment around the Manufacturing Industry and Current State of DX

The socioeconomic environment around manufacturers is rapidly changing.

There are great risks, such as disruption of supply chains due to large-scale disasters, reduction in productivity due to labor shortage and increase in management cost involved.



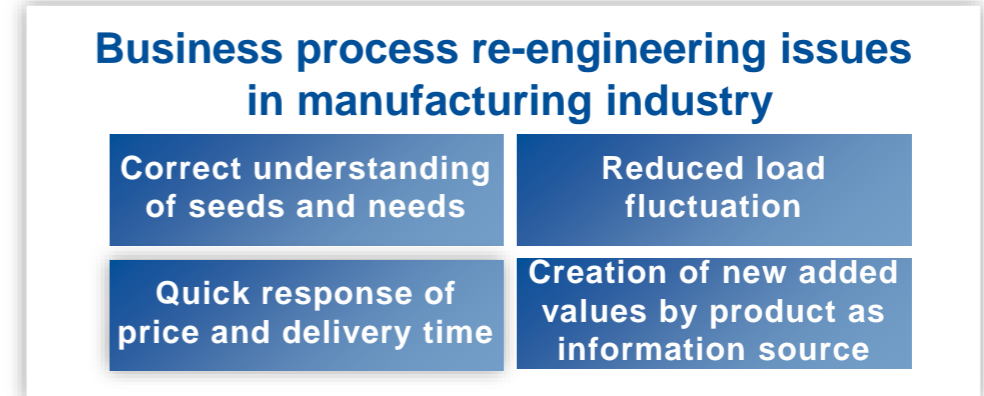
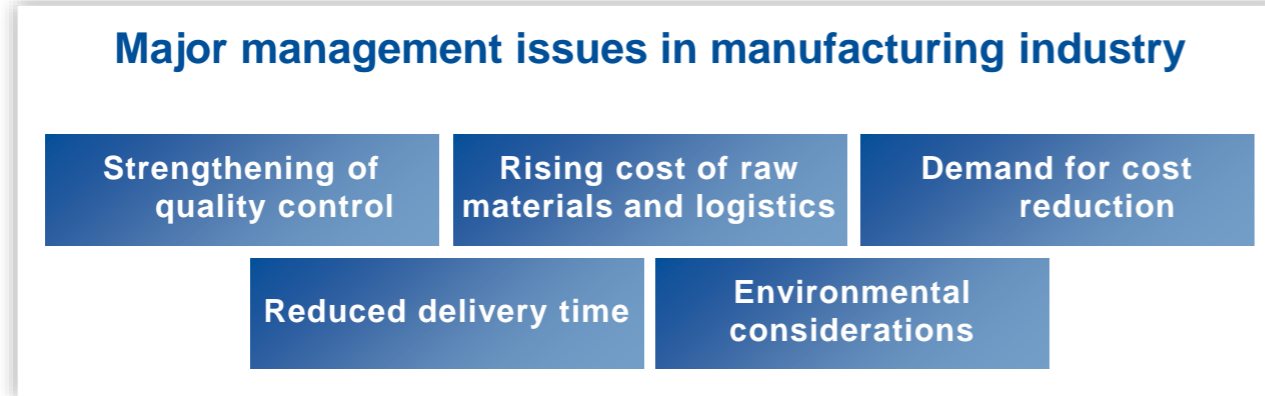
Utilization of developing digital technologies is the key of business solutions.



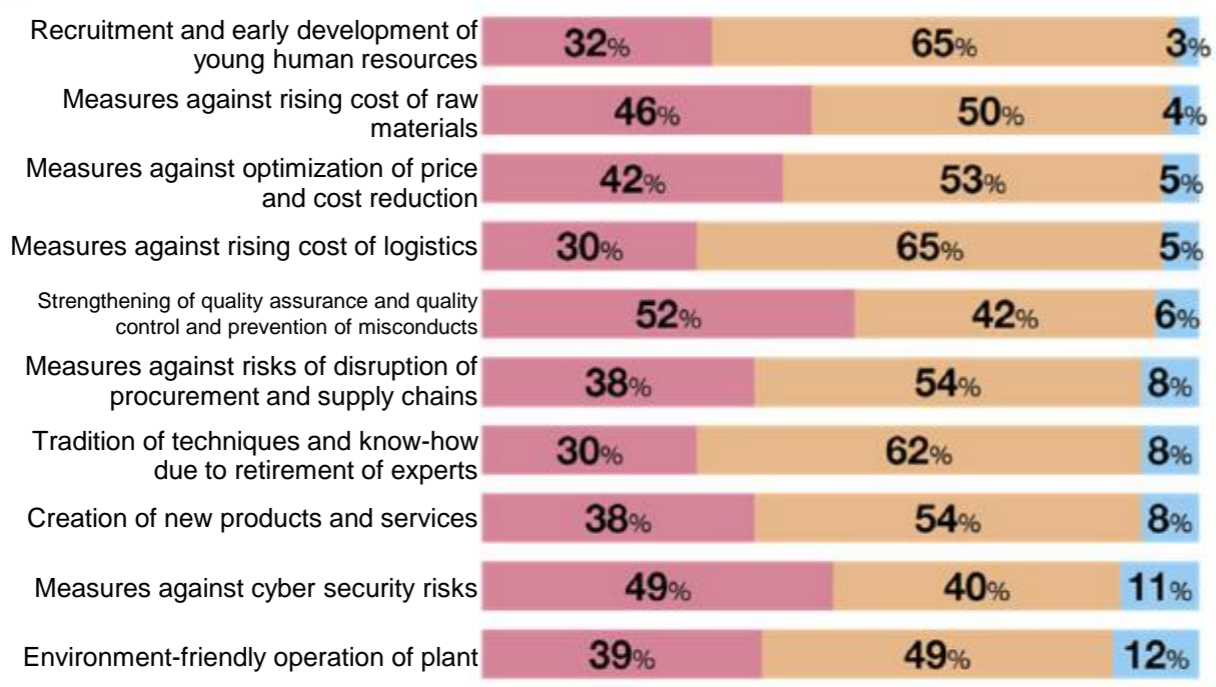
Actual situation ... Delays in promotion of DX and smartification

There are various issues of digital transformation (DX) and smartification. Many companies cannot solve the issues because they do not know from where or how to start taking action.

Issues in Manufacturing Industry

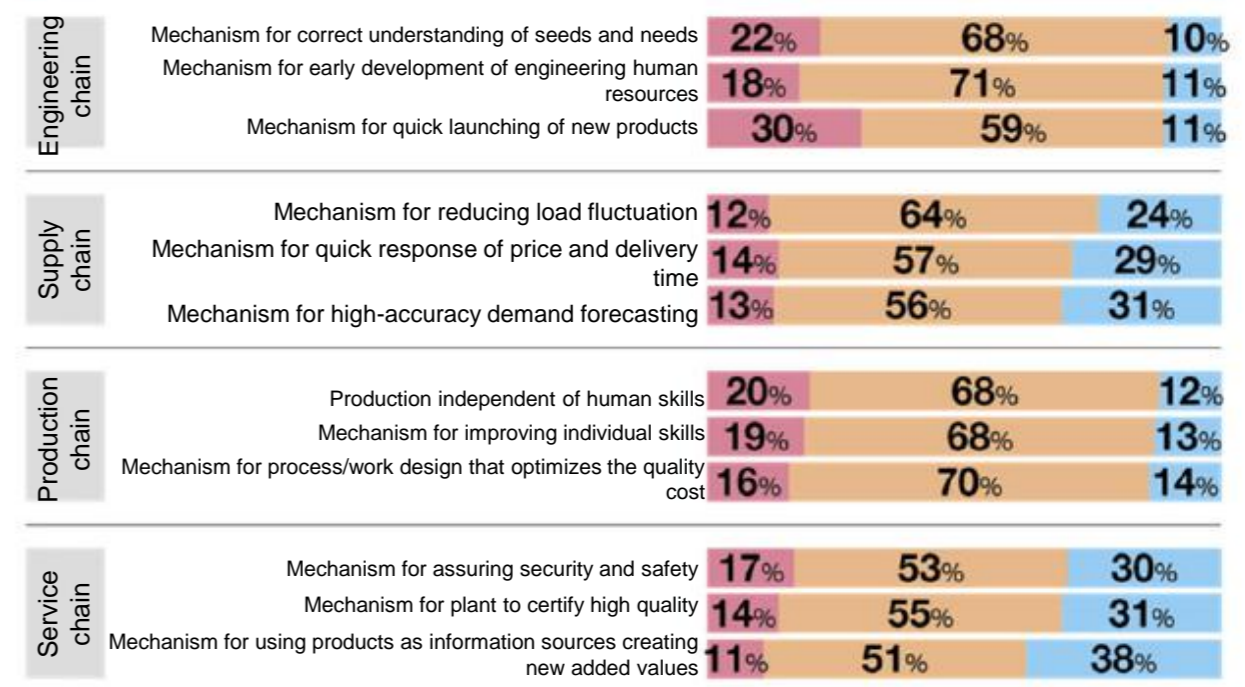


Excerpts of major management issues facing the manufacturers



- High impact. Measures have been taken.
- High impact. Measures are required.
- Some impact. Measures are not required or there is no impact on the company.

Excerpts of major business process re-engineering issues facing the manufacturers



- Very important issue. Establishment of the mechanism has been started.
- Very important issue. The mechanism must be established.
- Some impact. Measures are not required or there is no impact on the company.



Utilization of developing digital technologies is the key of business solutions.



Points of Promotion of DX in Manufacturing Industry

Steps for success

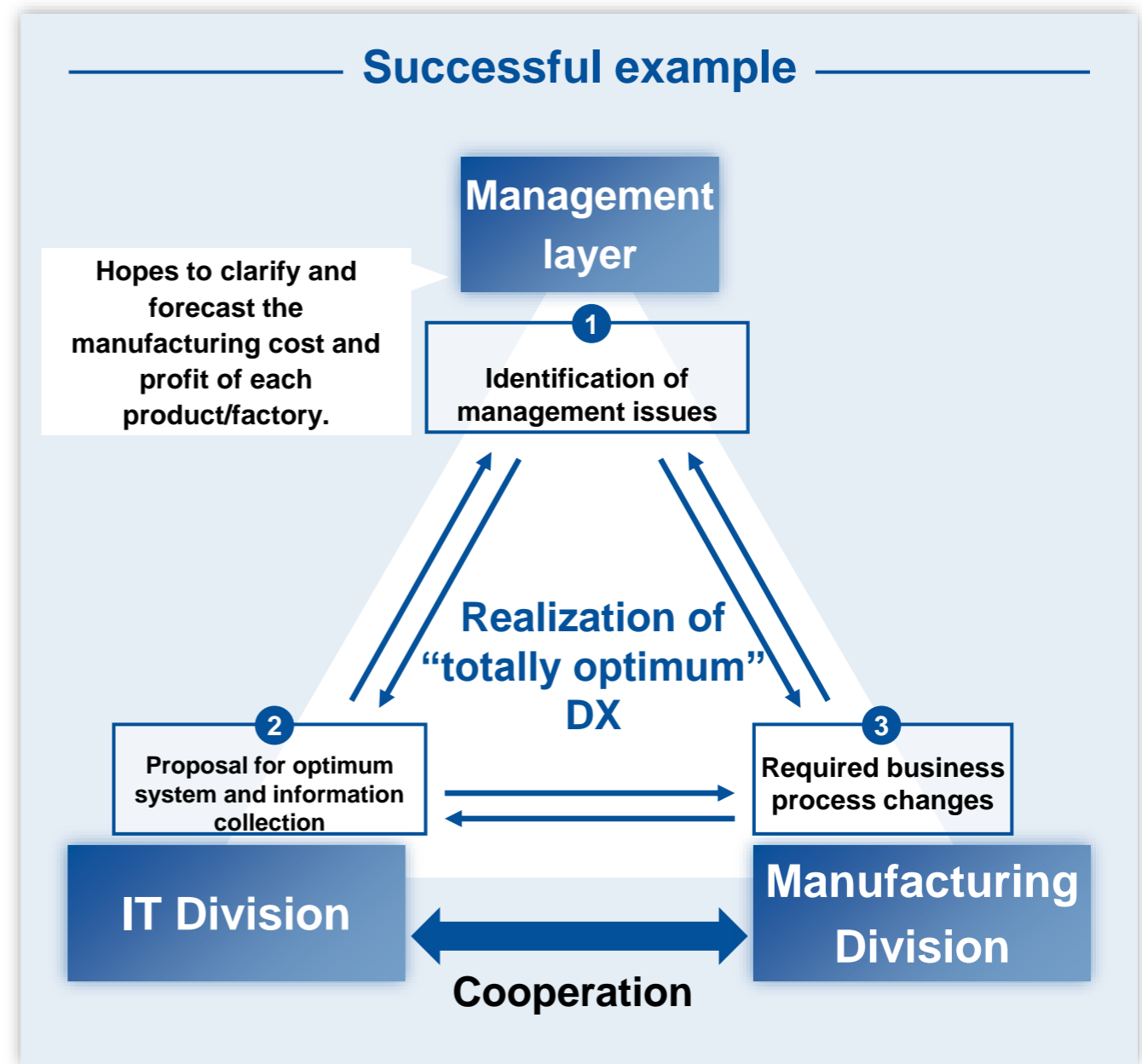
Identification of management issues



Standardization/unified management of data

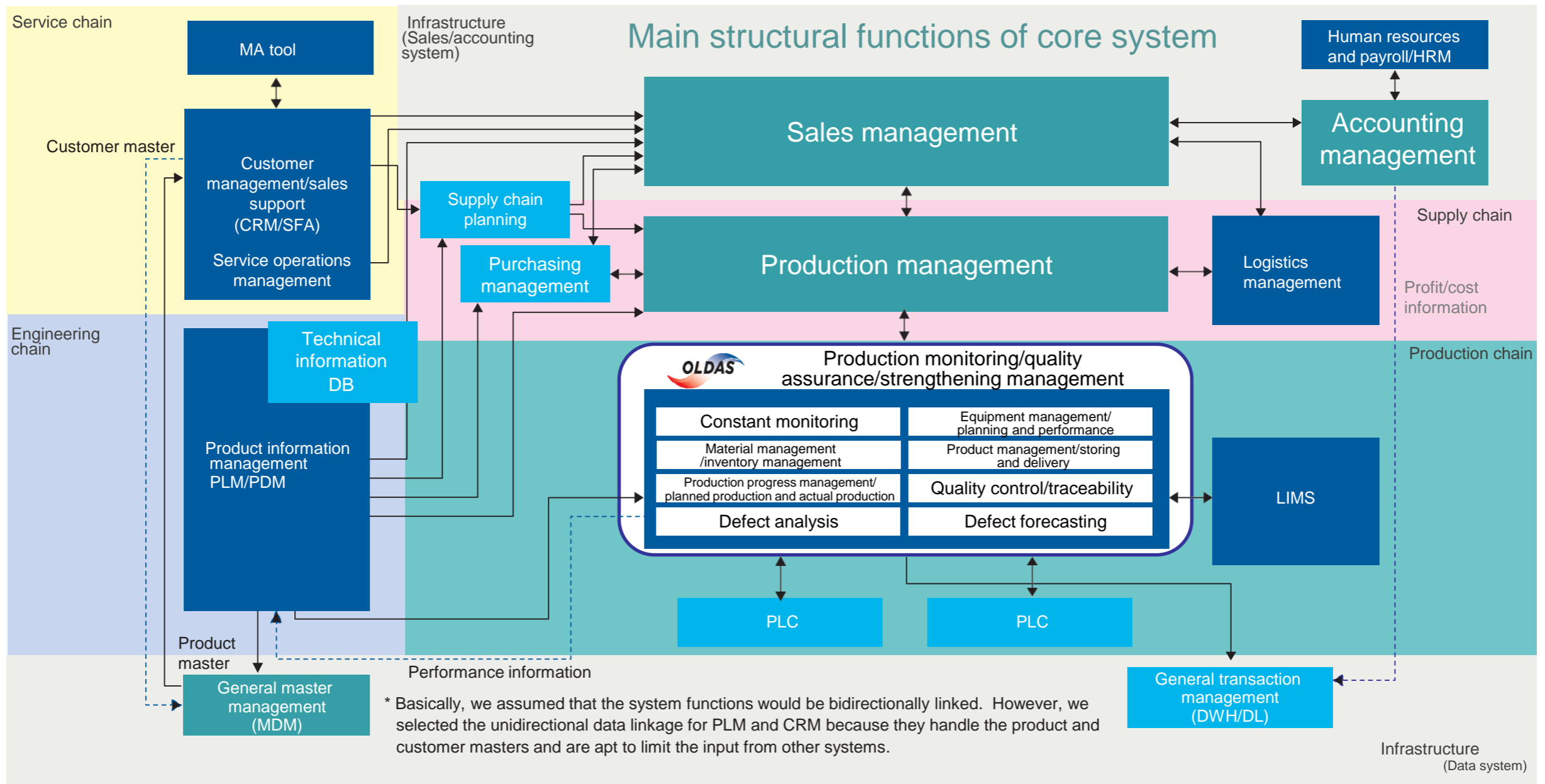


Realization of total optimization by DX



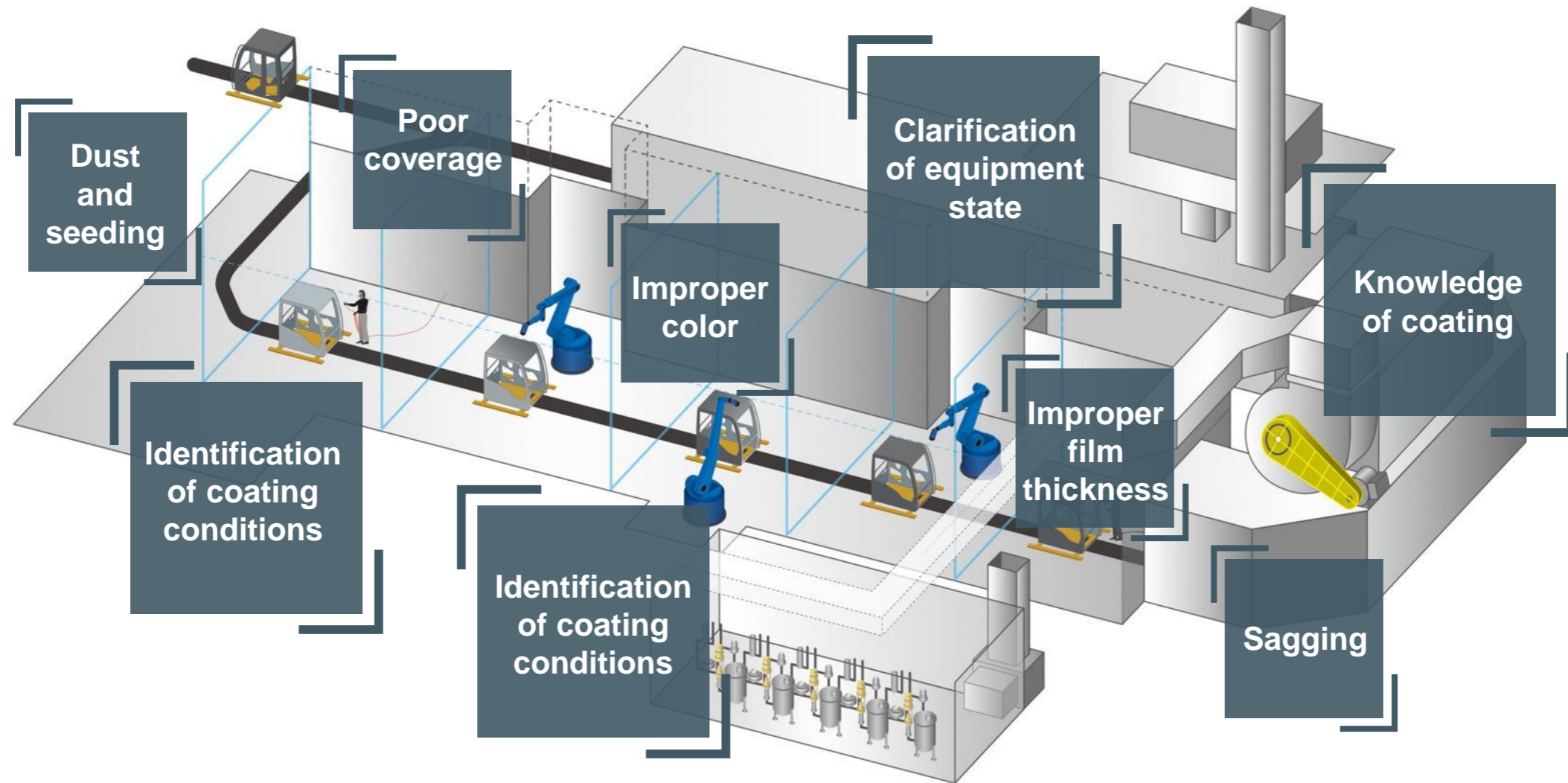
Standardization and unified management of data ensure accumulation of data on QCDSE and enable optimization in consideration of the entire manufacturing process.

Points of Promotion of DX in Manufacturing Industry



The system can promote the DX in the Manufacturing Division and realize the total optimization.

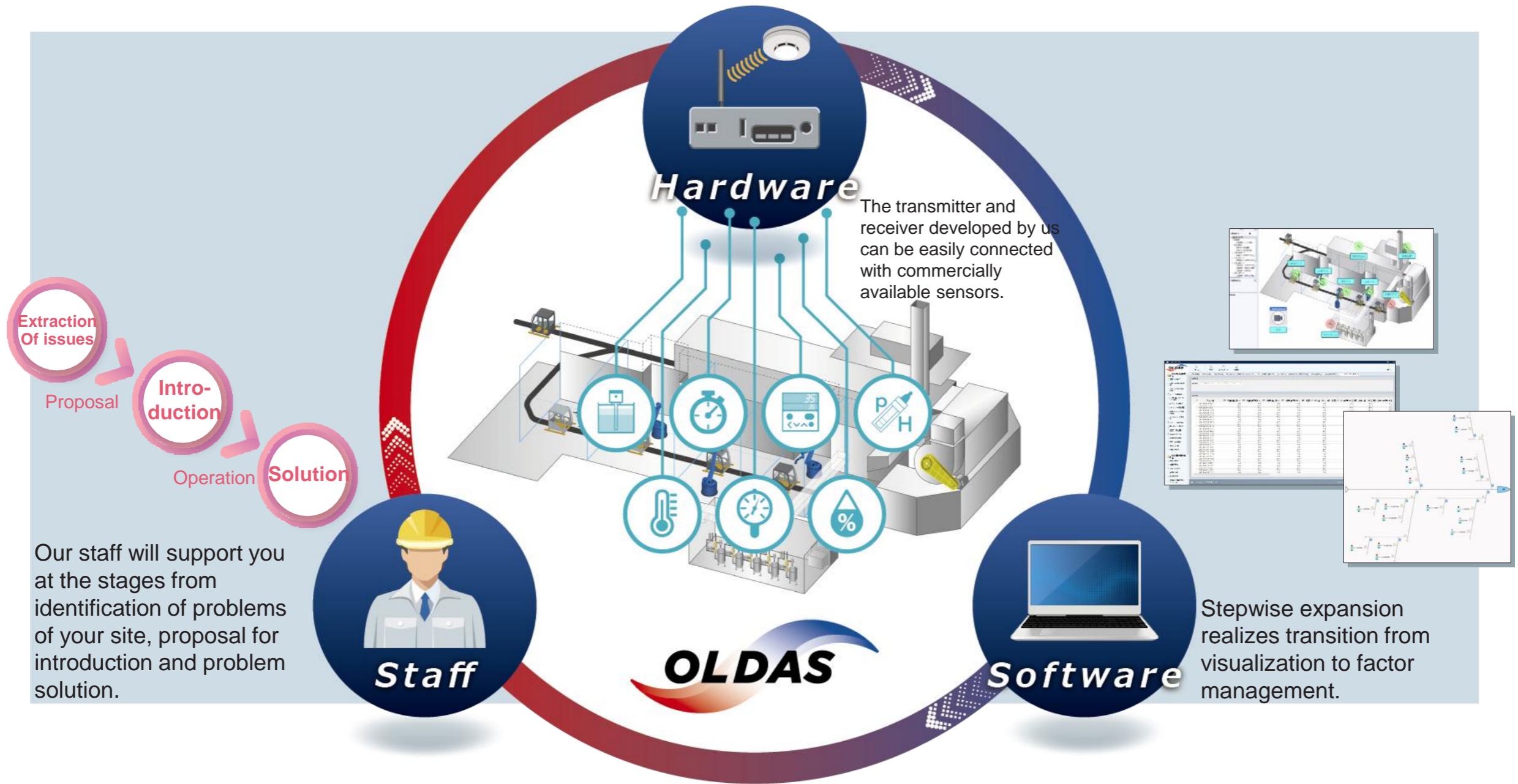
Current State and Issues of Coating Sites



Although various factors of defects affect the coating quality, many factors are controlled by analog devices.

When a defect occurs, the correlation between change points cannot be instantaneously determined, and the measures to be taken greatly depend on the experience and intuition of experts.

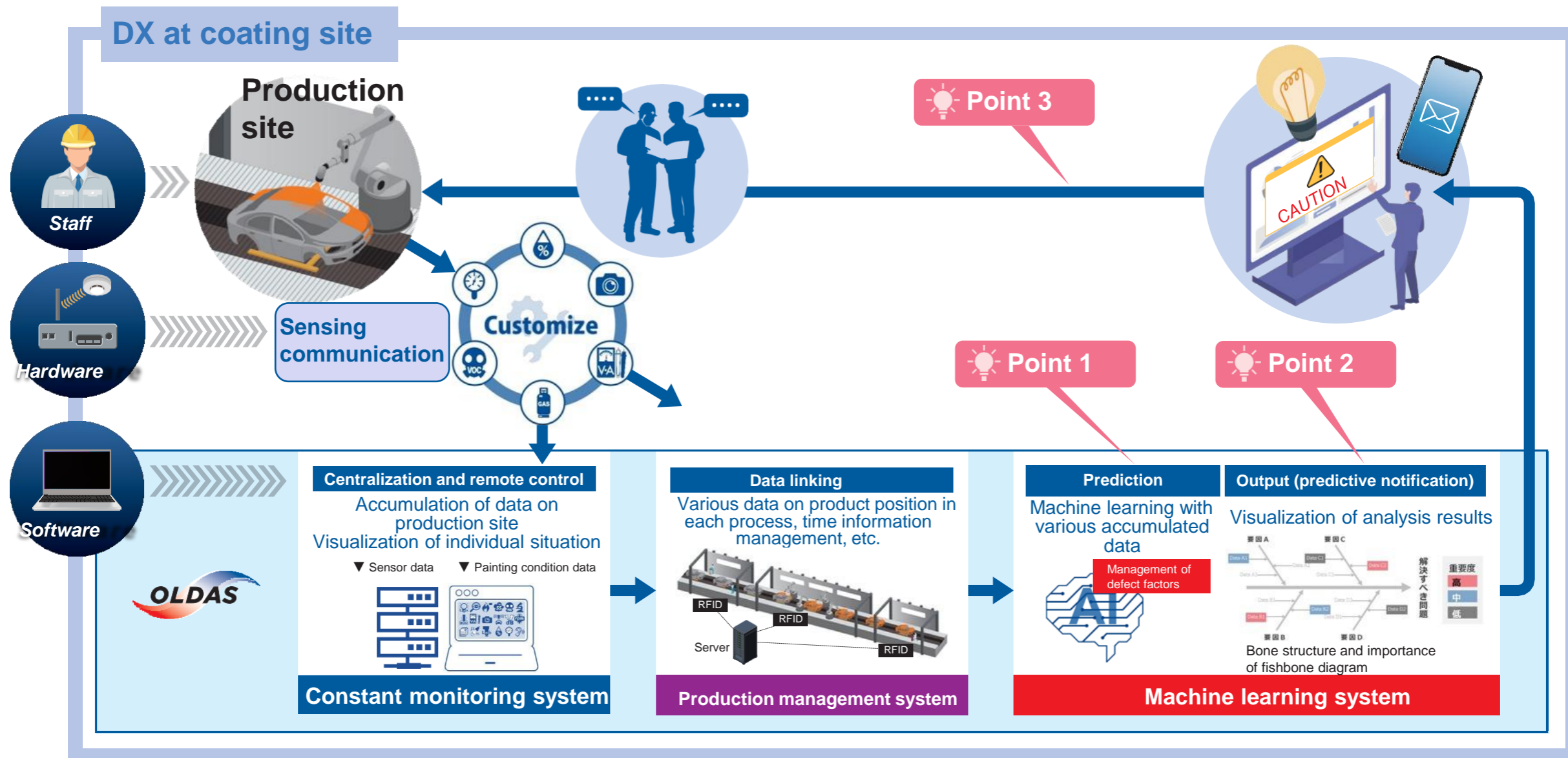
DX at Coating Sites



O-Well Line Data Analysis System

Our OLDAS provides you with one-stop solutions, including staff, hardware and software, for your issues, such as tradition of techniques, improvement of productivity and labor saving.

Outline of OLDAS



- 💡 **Point 1** **Saving of labor in complicated/troublesome factor analysis**
- 💡 **Point 2** **Departure from decision dependent on individual skills**
- 💡 **Point 3** **Prevention of defects**

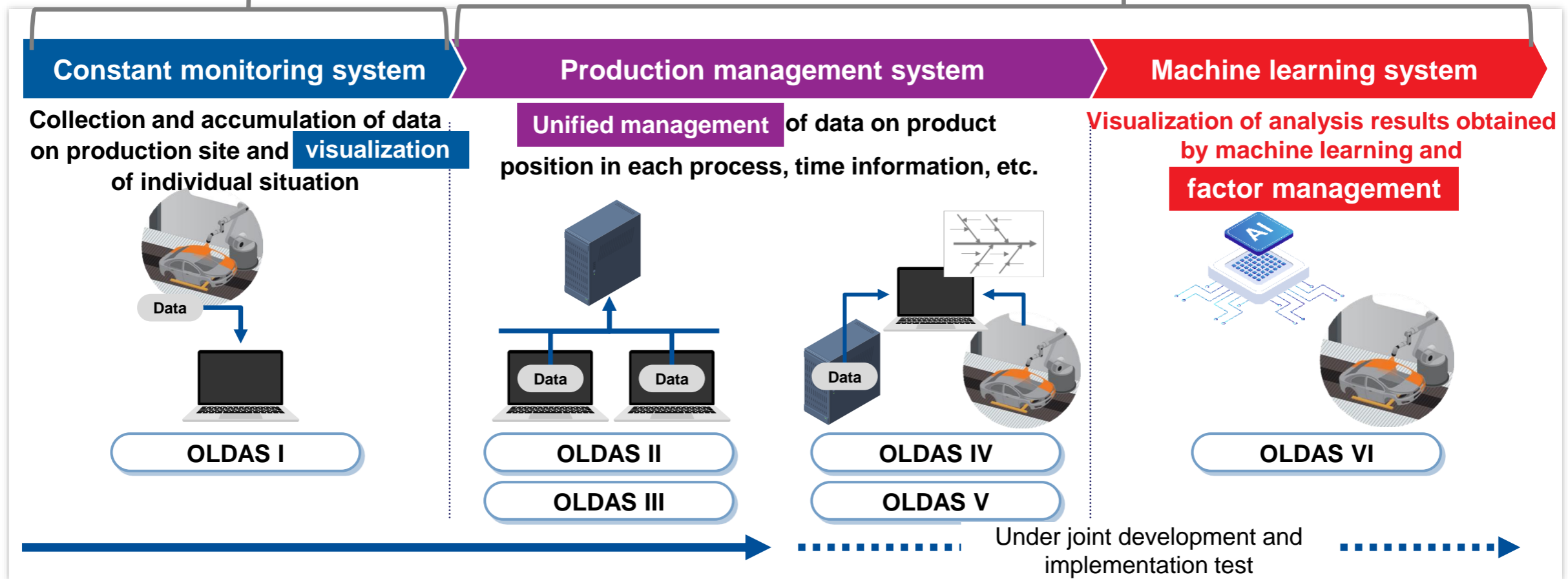
Features of OLDAS

Feature 1

It has a high compatibility with various sensors and systems and can be introduced without changing existing equipment.

Feature 2

Existing collected data can be imported, and high level analysis and evaluation are realized through machine learning.



Feature 3

The functionality can be extended starting from visualization.

Three Steps for Introduction of OLDAS

Step 1

Constant monitoring system

Visualization

Expected effects

Labor saving, energy saving, security and safety

- Monitoring of operation of equipment
- Elimination of differences in management skill
- Clarification of energy (CO₂)

Functions

- Collection and accumulation of sensing data from sensors and cameras
- Conversion of data to visual management information to constantly visualize the data

Step 2

Production management system

Unified management

Expected effects

Increased level of quality assurance

- Highly reliable quality records
- Minimization of impact of quality problems
- Centralization of production information

Functions

- Centralization of computerized production information on each product (information sharing)
- Traceability by digital management

Step 3

Machine learning system

Factor management

Expected effects

Overall optimization of coating site

- Reduced rejects disposal cost
- Activated improvement process
- Maintaining high quality

Functions

- Defect factors are analyzed by machine learning of past inspection results and production data, and defects are predicted and notified.

Owell's intended vision



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