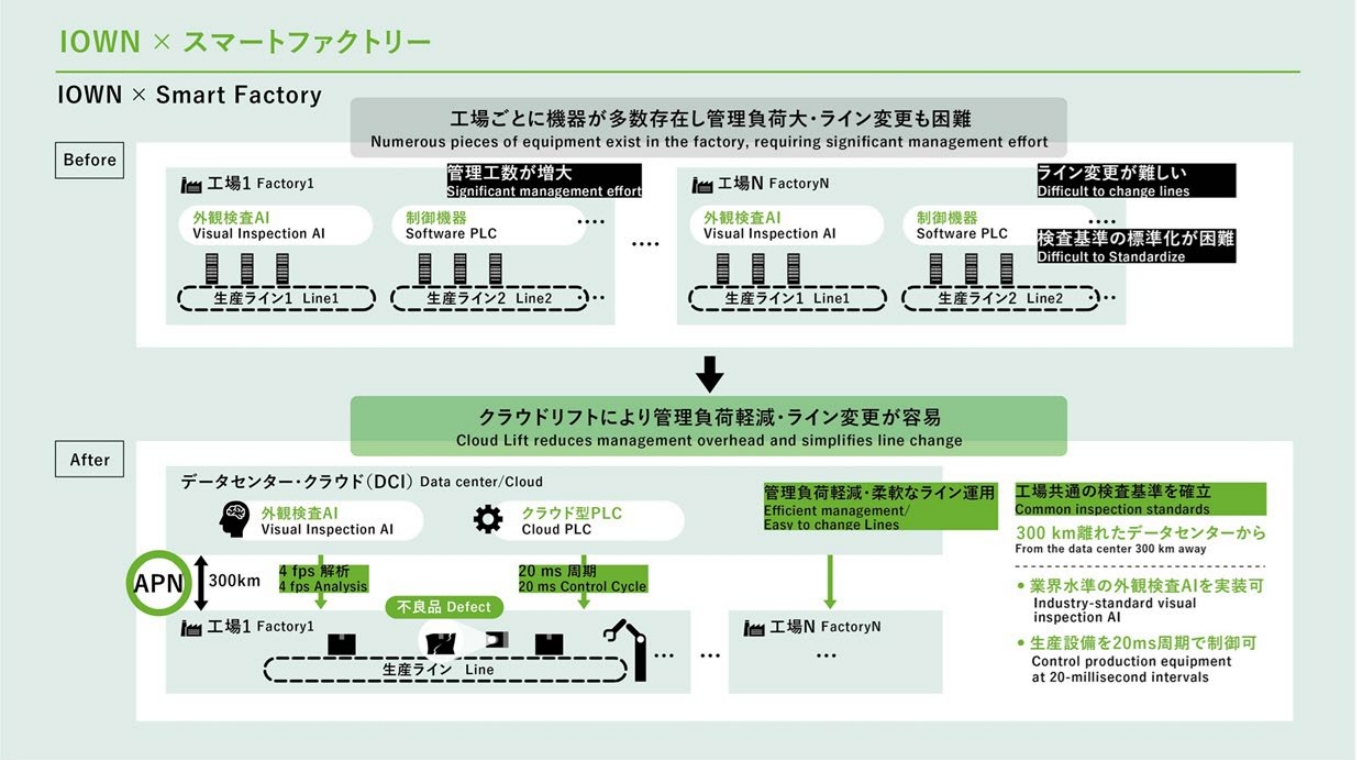
PLCs and AI in the cloud reduces maintenance resources and standardizes inspection quality

IOWN x Smart Factory

Background and Technical Challenges

A factory houses a vast amount of hardware, leading to increased maintenance man-hours and power consumption, while the quality of visual inspections remains inconsistent between factories.



R&D Goals and Outcomes

Streamline hardware maintenance operations to address labor shortages and standardize visual inspection criteria across multiple factories.

Key Technologies

01 Core Technologies

- The APN (All-Photonics Network)
- Acceleration of RDMA communication

02 Key Differentiators

- The APN enables 20ms cycle of remote control of production facilities and 4fps AI visual inspection using RDMA acceleration
- AI Visual Inspection Center standardizes inspection quality at each factory

Use Cases Manufacturing

R&D phase Business

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