R&D phase | Development **Expected Commercialization** | FY28-

Mehr Licht!
More Photonics for Intelligence

#A11

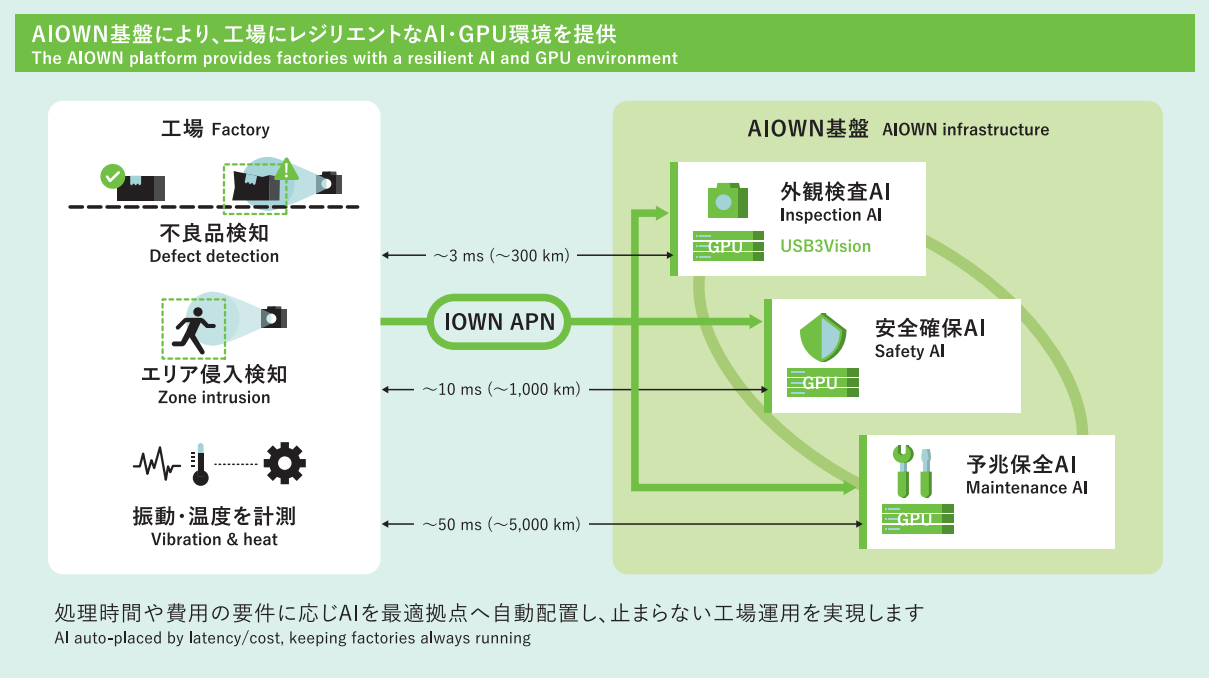
#Digital & AI Transformation#Resilience#Operational Efficiency

AIOWN for Smart Factories

AI auto-placed by latency/cost, keeping factories always running

Technical Challenges & Goals

As labor shortages accelerate factory automation, factory AI has been tied to fixed on-premise GPUs, making scaling and recovery difficult. This technology consolidates AI on AIOWN, placing processing on the optimal GPU/CPU by distance/latency, and auto-switching on failure for uninterrupted, lower-cost operation.



Key Technologies

Core Technologies

- Dynamic GPU/CPU placement on AIOWN by latency/cost. Automatic failover on fault detection
- Generalized cameras used remotely via end-to-end low-latency USB3Vision transmission over the APN

Key Differentiators

- Maintains the requirement while dynamically switching/using GPU across multiple sites
- On failure, automatically switches to idle GPU/CPU elsewhere, keeping factory AI running

Use Cases

Manufacturing

At sites with hundreds of AI cameras (e.g., automotive, battery production, and warehouses), by consolidating inspection AI, safety AI, and maintenance AI on AIOWN, cutting TCO while improving availability via GPU virtualization.

Exhibitors

NTT, Inc. Technology Innovation Center
NTT DOCOMO SOLUTIONS, Inc.