Mehr Licht!
More Photonics for Intelligence

#A08

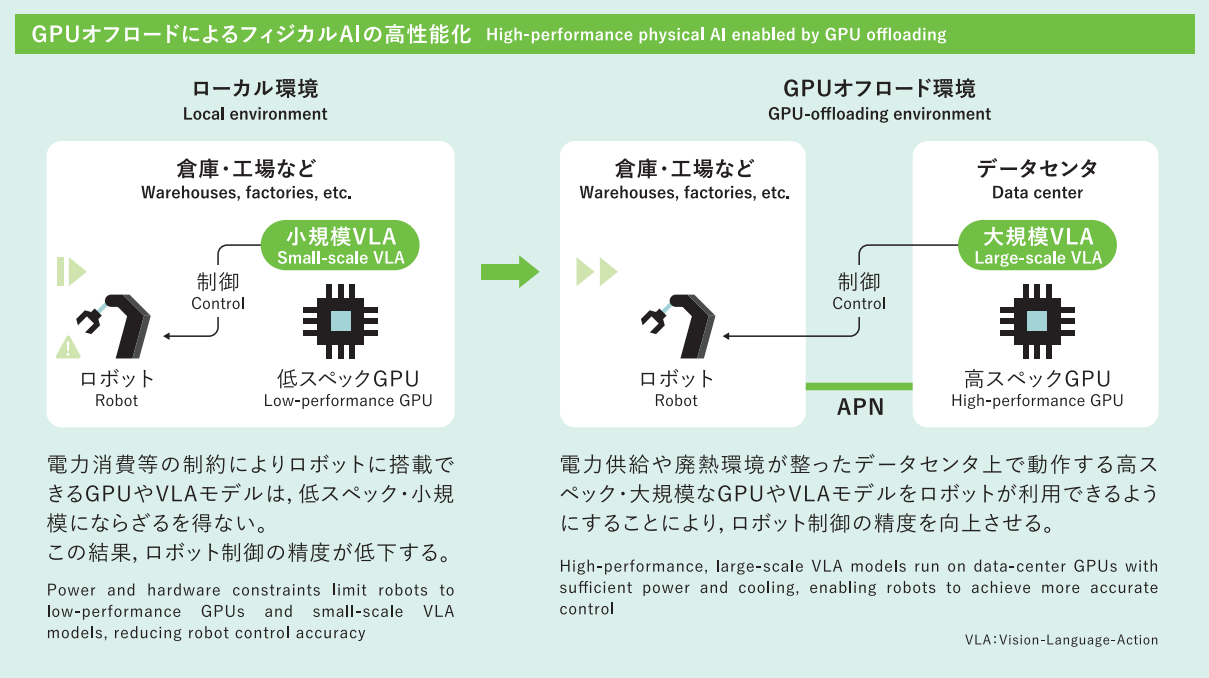
#Digital & AI Transformation#AI & Quantum Infrastructure#Operational Efficiency

AIOWN × Physical AI

GPU-offloaded VLA inference enables fast, precise AI robot work

Technical Challenges & Goals

As labor shortages drive robot deployment, Physical AI is attracting attention for enabling robots to adapt to changing real-world environments. However, current VLA technologies require powerful GPUs, increasing cost and power consumption. GPU-offloaded VLA inference enables low-cost, high-performance robot operation.



Key Technologies

Core Technologies

- Leveraging AIOWN's APN communications infrastructure
- Using AIOWN computing resources, including GPUs on the AI computing platform

Key Differentiators

- Unlike conventional robot-embedded GPU designs, the APN enables use of high-performance cloud GPUs
- Low-latency APN and high-end GPUs support larger VLA models within robot control cycle limits

Use Cases

Mobility & Transportation

By leveraging GPU-offloaded VLA inference free from onboard GPU constraints, multiple robot arms can sort diverse items moving irregularly on conveyor belts in real time, enabling 24/7 autonomous operation without manual pre-sorting.

Exhibitors

NTT, Inc. Technology Innovation Center