R&D phase | Business **Expected Commercialization** | FY27-

Mehr Licht!
More Photonics for Intelligence

#A12

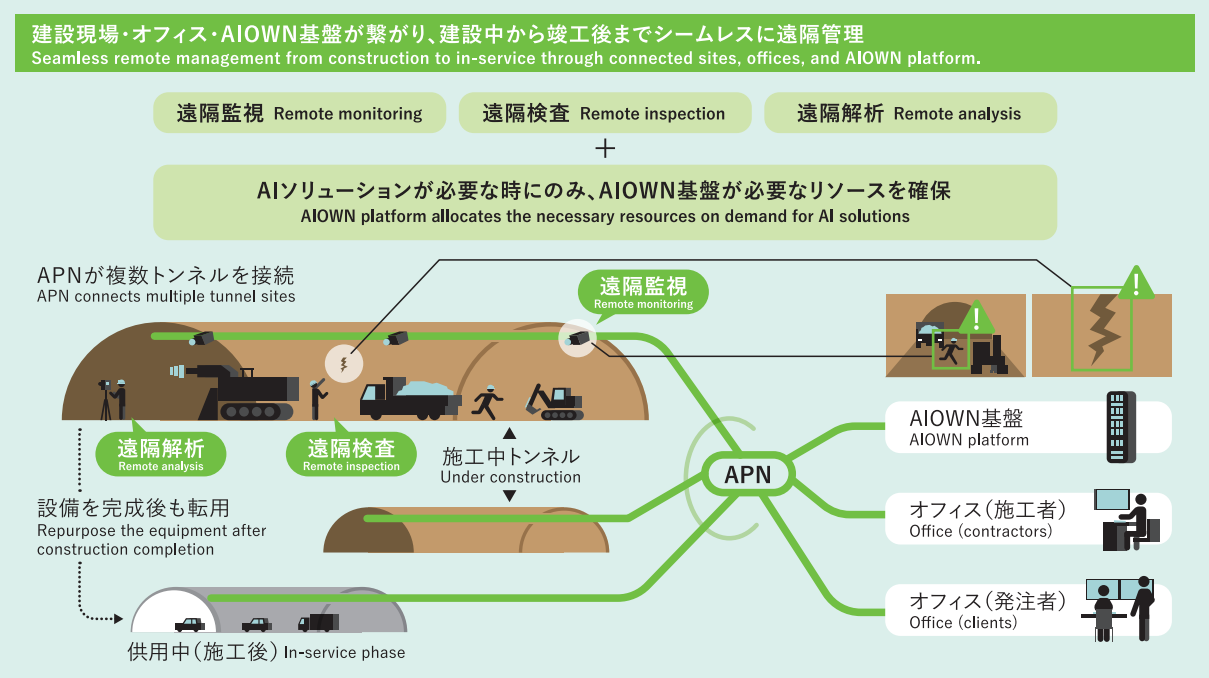
#Digital & AI Transformation#Safety and Security#Regional Revitalization

AIOWN × Construction

AI analytics for multi-site tunnel management and long-term safety

Technical Challenges & Goals

Natural disasters and aging infrastructure are driving demand for safer and more productive construction operations. In tunnel construction, management and analysis requirements change as excavation progresses and conditions vary. AIOWN enables flexible and seamless remote management from construction to in-service.



Key Technologies

Core Technologies

- AI resources allocated on demand for monitoring and inspection
- AI analytics detect cracks as small as 0.2 mm in images captured inside tunnels

Key Differentiators

- Enables advanced AI analytics at sites where deploying equipment is challenging
- Real-time analytics at different locations and times are enabled by distributed AI resources

Use Cases

Construction & Real Estate

High-resolution video and sensing data enable remote monitoring, quality verification, and inspections during tunnel construction. AI analytics help experts manage multiple sites, improving safety, productivity, and operational efficiency.

Exhibitors

NTT, Inc. Network Technology Center　NTT, Inc. Technology Innovation Center

External Partners

HAZAMA ANDO CORPORATION
1FINITY Inc.