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

Mehr Licht!
More Photonics for Intelligence

#D10

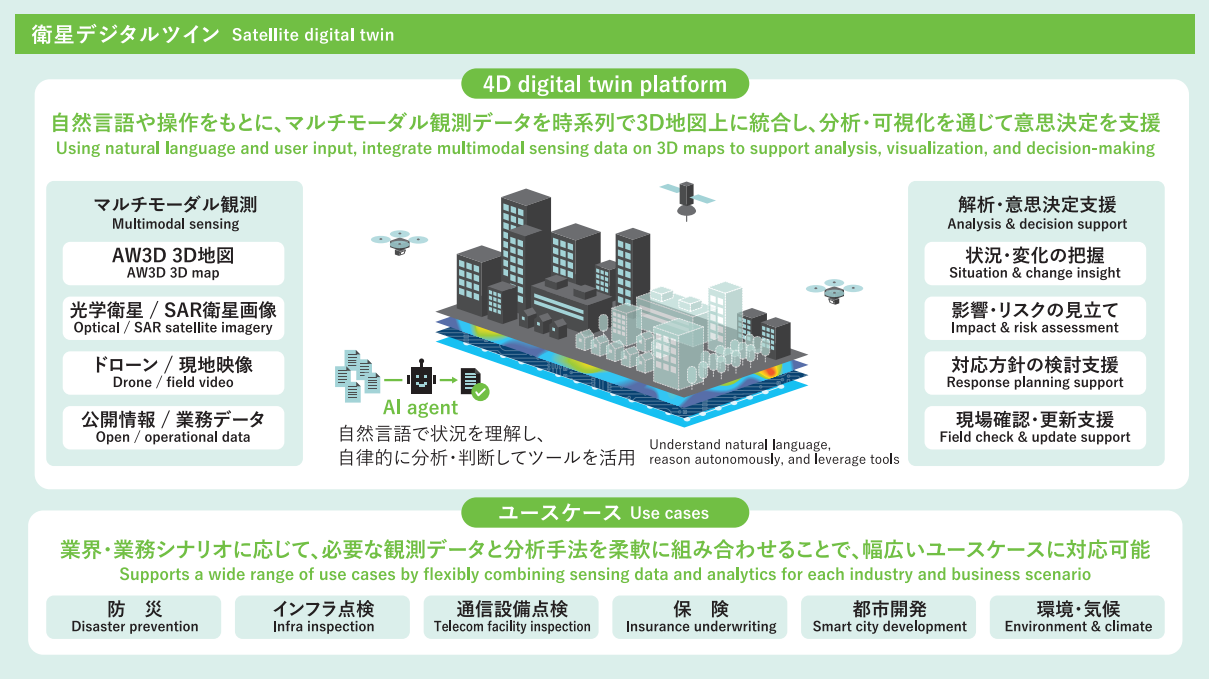
#Digital & AI Transformation#Resilience#Operational Efficiency

Satellite 4D Digital Twin with AI Agents

See global change in 4D to support planning and operational decisions

Technical Challenges & Goals

Disasters, infrastructure faults and urban change require constant wide-area observation and fast situational awareness. Static 3D maps and isolated data limit time-series analysis. We integrate 3D maps with satellite and field observations, while AI agents support flexible analysis, visualization and decision-making.



Key Technologies

Core Technologies

- Time-series integration of multimodal observations, including satellite data, on 3D maps
- AI agents coordinate data acquisition, analysis, and 3D visualization from natural-language input

Key Differentiators

- Observation data across sources and time are integrated in 3D for continuous wide-area monitoring
- Flexible analysis and visualization for decision support, tailored to disaster conditions and goals

Use Cases

Aerospace & Defense

Satellite data are analyzed to visualize changes in target areas and support decisions from awareness to action. Users specify an area and time in natural language, and an AI agent organizes and presents key information on maps and in 3D.

Exhibitors

Innovation Technology Department, NTT DATA Group Corporation