IOWN INTEGRAL

NTT R&D FORUM 2024

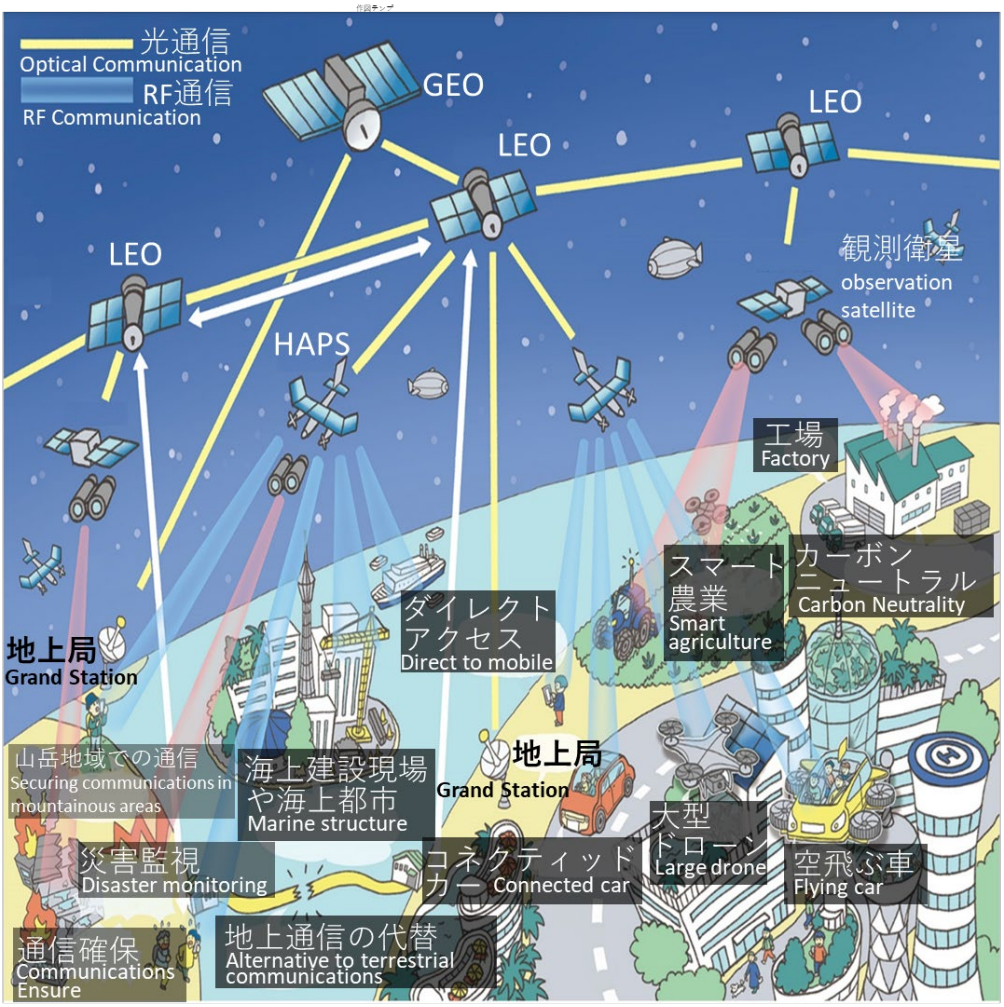
DEVELOPMENT

δ 05-08

Optical satellite communication technology

Real-time utilization of observation satellite data

#Business Resilience #Customer Experience Value Creation #Green Transformation



///Technical Issue

Current Earth Observation Data transfer issues
#1 No Real-time Data Available
#2 Jamming, Interception and Detection
#3 Frequency Coordination

///Research Goal

Generating over 10 billion JPY annually:
#1 Real-time Observation data with ultra-high-speed
#2 Secure Data Transfer
#3 License Free

---Technology

The world's first commercial optical data relay service via geostationary orbit.

---Novelty

While traditional wireless communication requires several hours for data transfer from observation satellites, optical data relay services via geostationary satellites reduce this time to just a few minutes, enabling real-time observation data.

---Applicable Business

The real-time Earth observation satellite data is expected to enable numerous use cases, including: (1) faster rescue operations through real-time assessment of disaster-affected areas, (2) real-time damage assessment by insurance companies, (3) near real-time monitoring of CO_2 emissions and ocean temperature conditions, and (4) addressing security issues such as detecting suspicious vessels and missile launches.

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