NTT C89

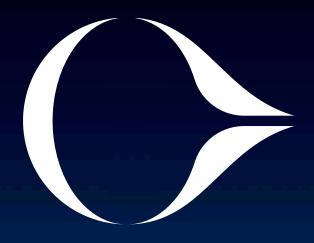
Aerospace Business Strategy

Shifting Dynamics in Space









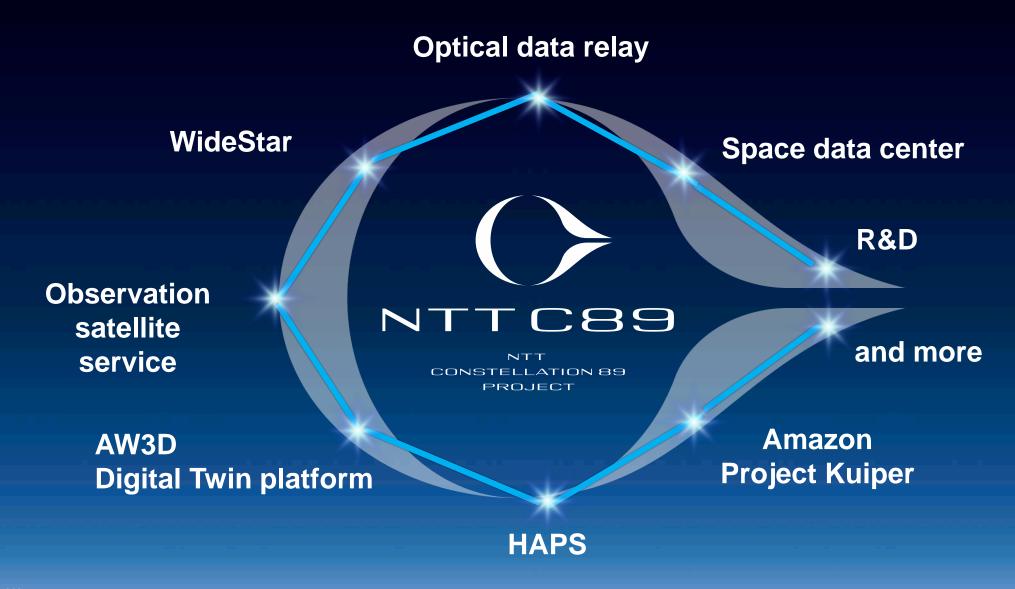
NTTC89

(C-Eighty-Nine)

NTT
CONSTELLATION 89
PROJECT

Integrate and expand each business





Space-integrated Computing Network Concept





Focus Area 1: HAPS





Direct smartphone communication with low latency, delivering high-resolution images and videos



Disaster relief



Mountainous area



Ocean



Construction site



Remote islands

Business Development

- Communication service
- Remote sensing service

In Preparation

Pending

Launching in Japan in 2026 with plans to accelerate global expansion

Technological Development

Communication Technology Advancements

- Communication Technology for Mobile
 Terminals

 NICT Collaboration
- High-speed and high-capacity

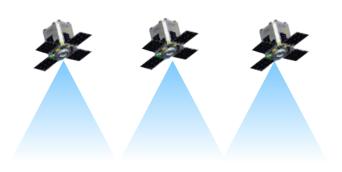
NICT Collaboration

Focus Area 2:

Observation LEO Satellite & Observation Data Platform

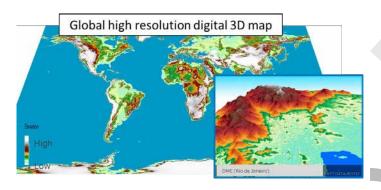






Photograph

LEO Observation Satellite
Constellation



Cartography

AW3

Digital Twin Cyber space Future Simulation Real-time Past Change analysis Analysis and Prediction

Simulation

Digital Twin Platform

Business Development

Observation satellite service

 Commercialization of the observation satellite constellation

In Progress

Digital 3D map service

AW3D

Launched

Observation Data PF

Digital twin platform service

In Progress

Technological Development

Communication Technology Advancements

- Satellite MIMO technology
- Next-generation earth observation technology

JAXA Joint Research

JAXA Joint Research

Focus Area 3:

() NTT CB9

LEO Satellite Communications with Partnership Collaboration

Amazon Project Kuiper











Business Development

Communication Service

- Amazon Project Kuiper strategic collboration
- Starlink Business

In Progress

Launched

Technological Development

Optical Communication Technology Advancements

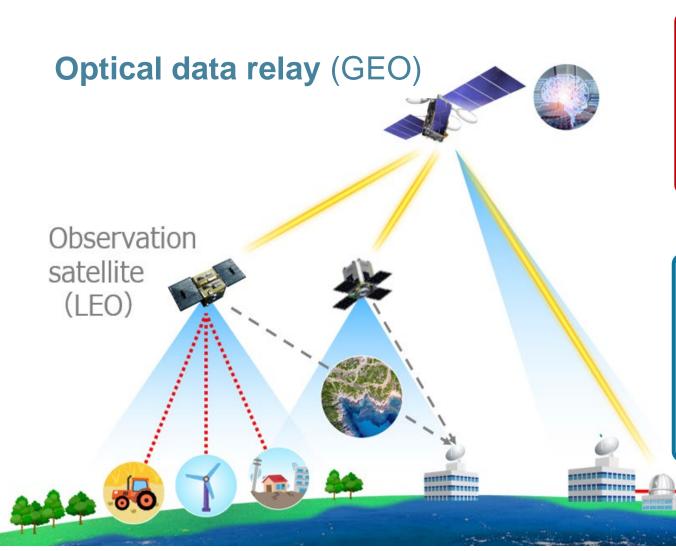
- Ultra-high-speed and high-Capacity
- Satellite constellation technology

JAXA Joint Research

JAXA Joint Research

Focus Area 4: GEO Satellites





Business Development

Communication Service

- WideStar
- Optical data relay service
 High-speed communication
 service for observation satellite

Launched

In Preparation

Technological Development

Space data center

• Al inference technology

JAXA Joint Research

<u>Other</u>

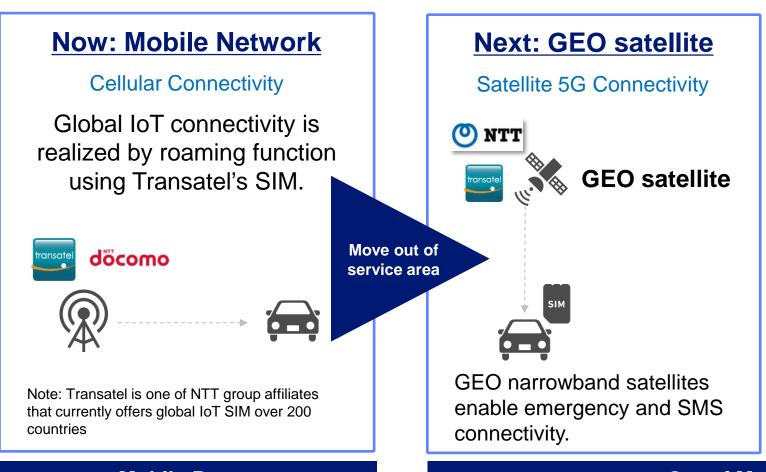
Cosmic rays electromagnetic barrier technology

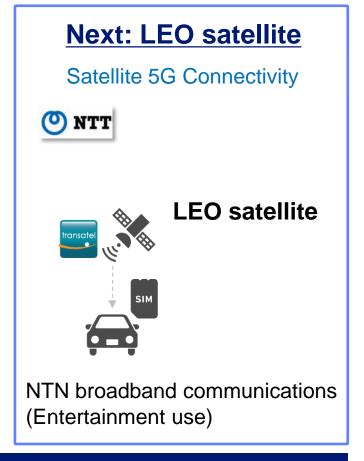


Future Outlook for TN-NTN



We aim to achieve global TN-NTN cooperation using Transatel's SIM roaming features for direct device satellite communication.





Mobile Range

Out of Mobile Range

Brightening today, guiding tomorrow