

Background

There is a need to provide communication services in areas where terrestrial networks do not reach, such as maritime and mountainous areas, for security and monitoring. In addition, the growing threat of natural disasters demands a communications infrastructure that is resilient to ground disasters.

Summary

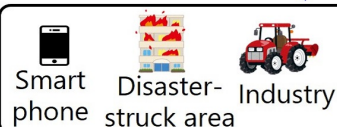
Non-terrestrial networks (NTNs) using satellites and HAPS is built in space to form a service area anywhere in the world. High-capacity technology is applied to NTN accommodate many terminals. In addition, low latency technology is applied to NTN because of the variety of use case in 5G/6G service.

Mobile networks built in the sky and space provide connectivity everywhere on earth.

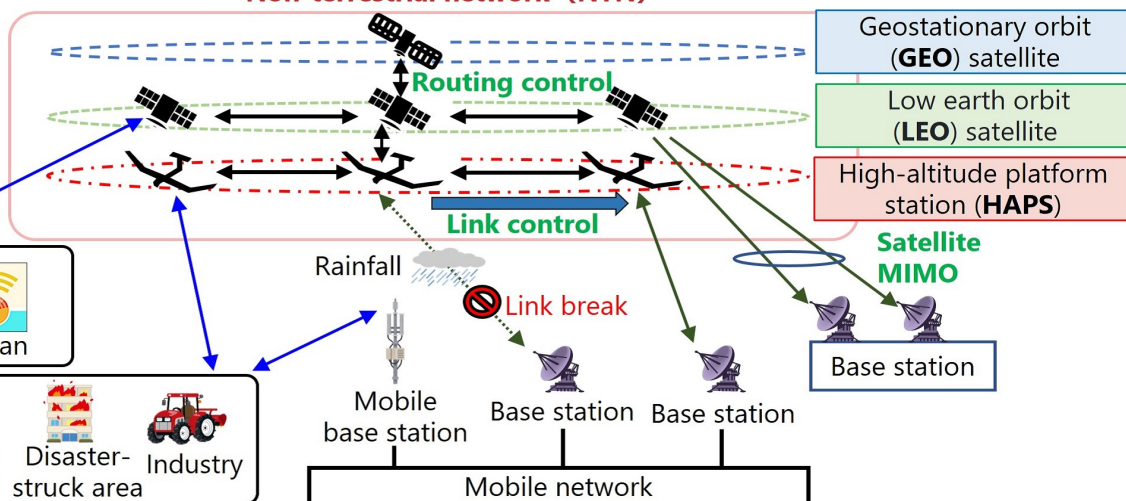
Satellite sensing



Mobile terminals



Non-terrestrial network (NTN)



Features

- Traffic route control considering different characteristics of satellite and HAPS such as latency, link capacity, etc.
- Multi-IoT (internet of things) terminals simultaneous sensing and transmitting large volume data from low earth orbit (LEO) satellite

Future_benefits

Non-terrestrial networks provide an ultra-wide power-saving sensing environment and mobile services anywhere in the world.

Collaboration partners

Japan Aerospace Exploration Agency (JAXA)

Exhibiting Company

NIPPON TELEGRAPH AND TELEPHONE CORPORATION

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