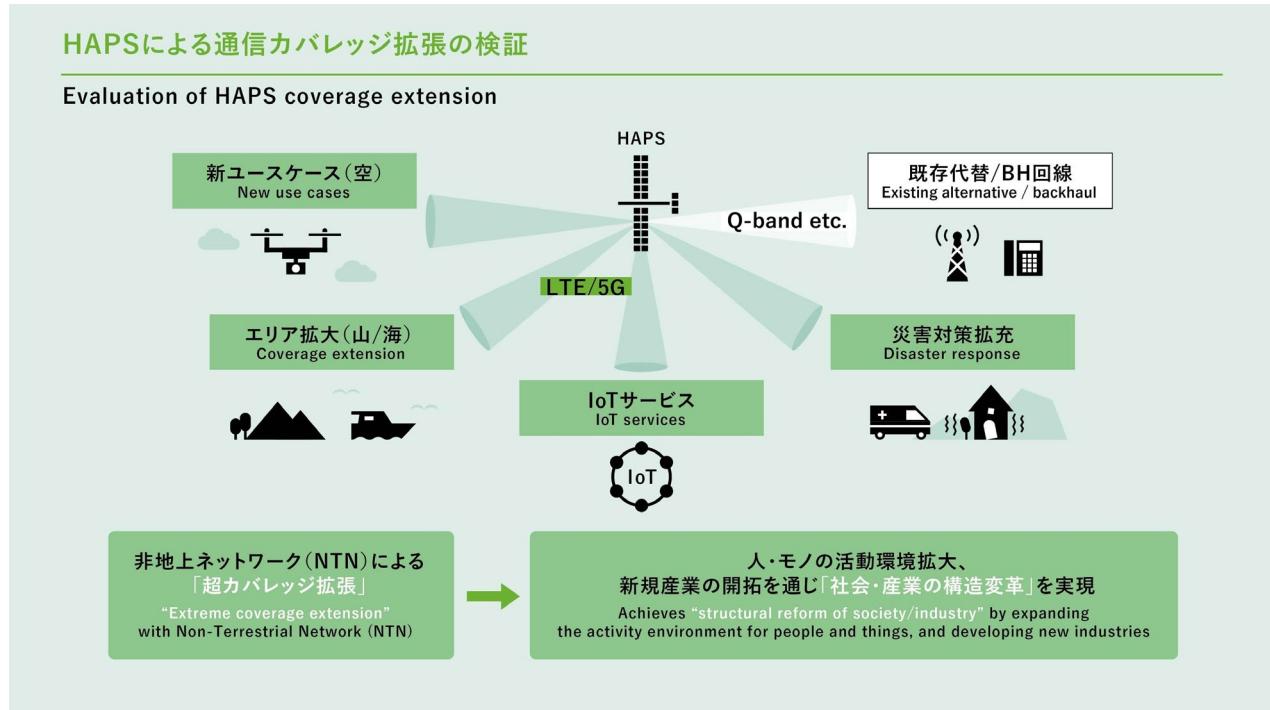




Extend mobile coverage using stratospheric wireless communication Evaluation of HAPS coverage extension

Background and Technical Challenges

Terrestrial base stations cover 99.9% of the population, but many remote and maritime areas remain unserved. Natural disasters may also impact these stations.



R&D Goals and Outcomes

HAPS in the stratosphere enable communication in hard-to-reach areas, supporting new industries and disaster response.

Key Technologies

01 Core Technologies

- Stratospheric HAPS extend routine coverage to mountains, seas and airspace beyond ground networks.
- In disasters, they restore resilient links quickly.

02 Key Differentiators

Compared to similar services like GEO and LEO satellites, HAPS has three advantages: higher speed and lower latency, more flexible network due to stationary flight, and direct smartphone connectivity.

Use Cases Public Services & Local Government

R&D phase Development

Technology Schedule FY25-26

Commercialization Schedule FY25-26

[Exhibitors]

R&D Innovation Division, NTT DOCOMO, INC.

[Contact]

6G-Tech Department, NTN Technology Group

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