

THE CONSORTIUM



6g-ntn.eu

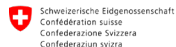
CONTACTS



Visit the 6G-NTN website to learn more



Project funded by



Swiss Confederation



State Secretariat for Education, Research and Innovation SERI

NON-TERRESTRIAL NETWORKS NATIVELY PART OF 6G

VISION

Interworking
Prior 5G

Integration
5G and 5G Advanced

Unified
6G

SATELLITE
NETWORKS
(SN)

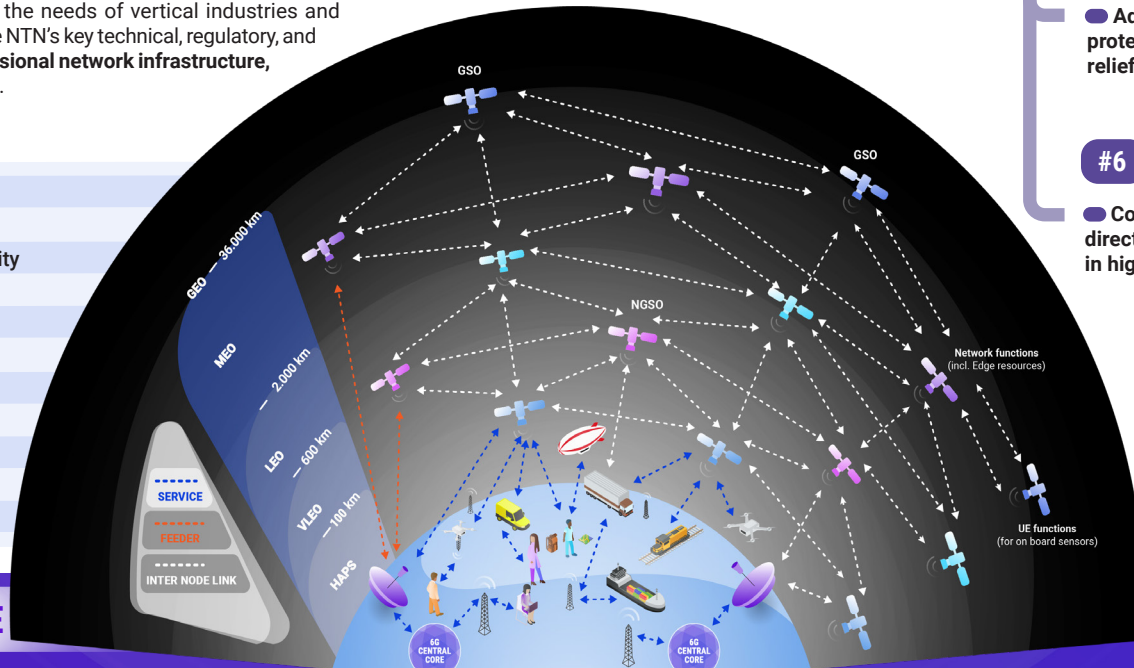
TERRESTRIAL
NETWORKS
(TN)

6G-NTN plans the native integration of **Non-Terrestrial Network (NTN)** component into the future **6G infrastructure** and best meet the needs of vertical industries and consumers. The project aims to design and validate NTN's key technical, regulatory, and standardisation enablers, focusing on **multidimensional network infrastructure, multi-constraint RANs, and multi-user terminals.**

INNOVATION POTENTIAL

- Spectrum coexistence of NTN and TN
- 3D TN / NTN network architecture
- Seamless and transparent service continuity
- Reliable positioning (GNSS independent)
- Flexible software defined payload
- VNF orchestration, AI-Enhanced RIC
- Fast adaptation to traffic variations
- TN / NTN Edge computing
- Compact terminals
- Light indoors and in-vehicle
- Throughput enhancement

6G-NTN ARCHITECTURE



THE APPLICATION OF 6G NTN: 6G-NTN USE CASES

#1

Maritime coverage for search and rescue coast guard intervention

#2

Autonomous power line inspection using drones

#3

Urban air mobility

#4

Adaptation to public protection and disaster relief or temporary events

#5

Consumer handheld connectivity and positioning in remote areas

#6

Continuous bi-directional data streams in high mobility

#7

Direct communication over satellites



Scan the QR code to learn more about the Use Cases