

6G NTN

The challenges for extending the terrestrial coverage with LEO satellites

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Ericsson & non-terrestrial networks



Standardization

Ericsson, Qualcomm, and Thales Alenia Space reach milestone in space-based connectivity

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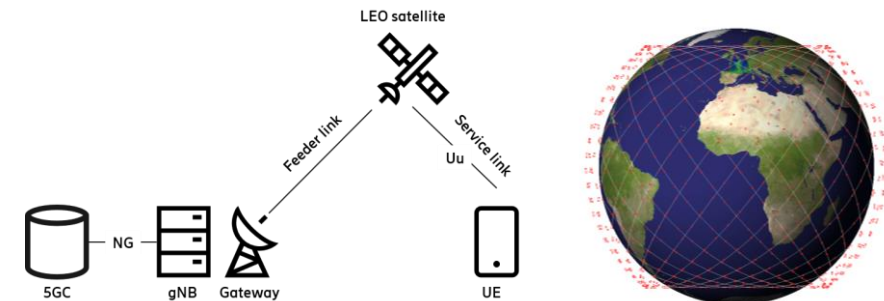
- Ericsson, Qualcomm Technologies, Inc., and Thales Alenia Space have partnered on 5G NR non terrestrial networks (NTN) technology since 2022
- Demonstration validates key technical functionalities essential for robust satellite communication integration
- It paves the way towards the seamless integration of terrestrial network (TN) and NTN, laying the groundwork for commercial deployment

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Proof of Concepts

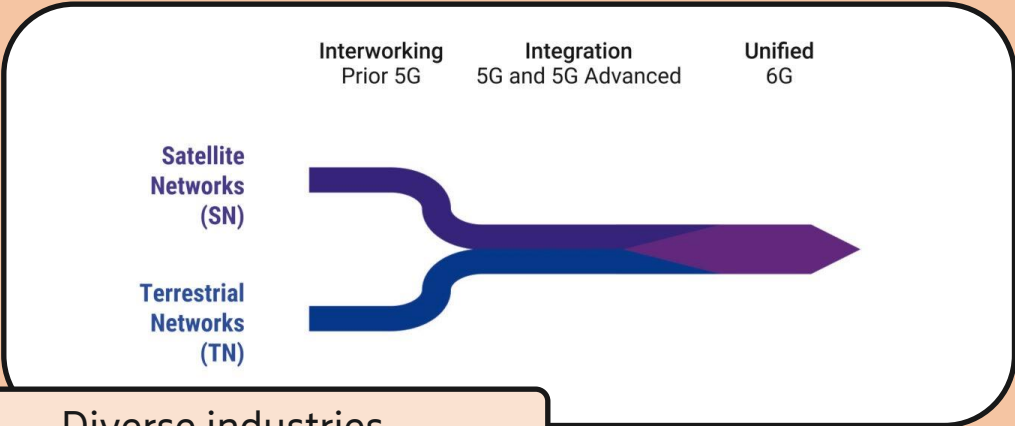


European projects & academia

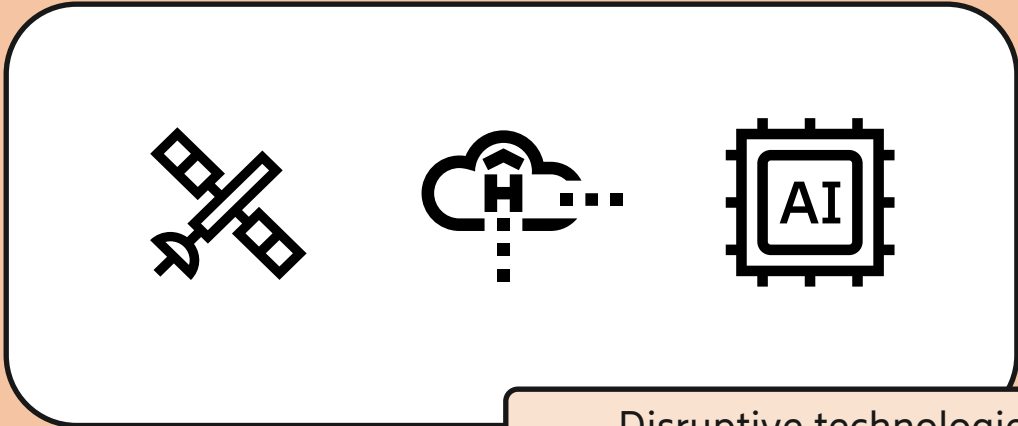


Research & development

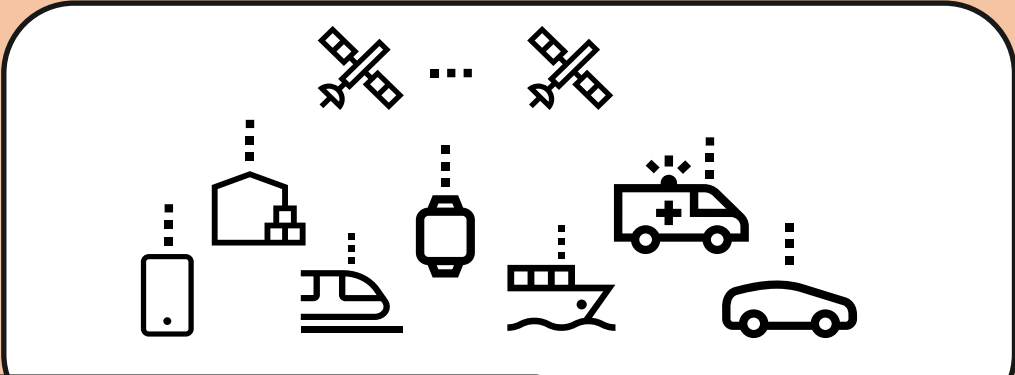
Challenges into opportunities



Diverse industries



Disruptive technologies

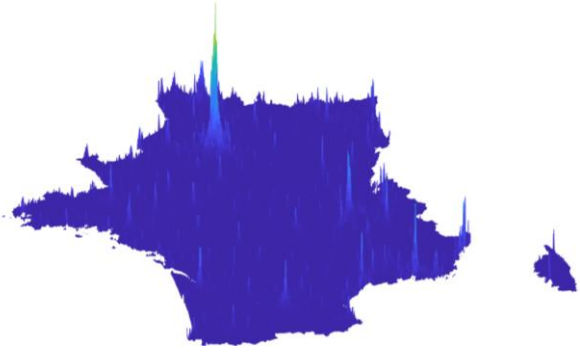


Multi-purpose deployments

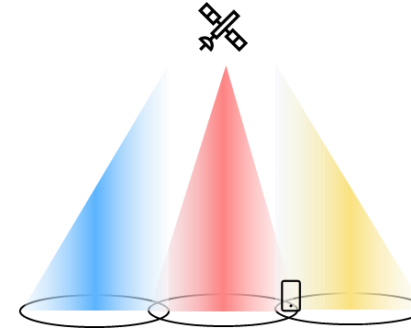


Seamless connectivity

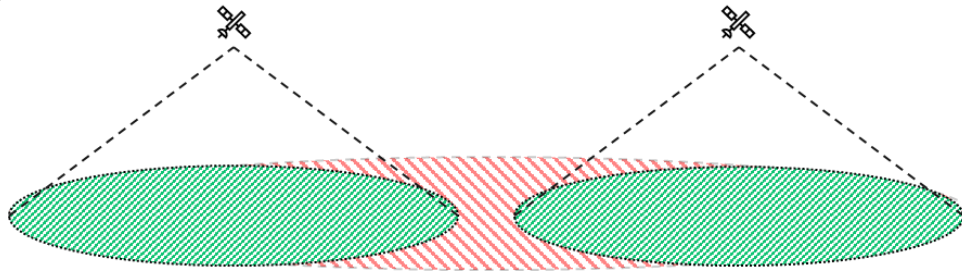
The road to seamless connectivity over satellites



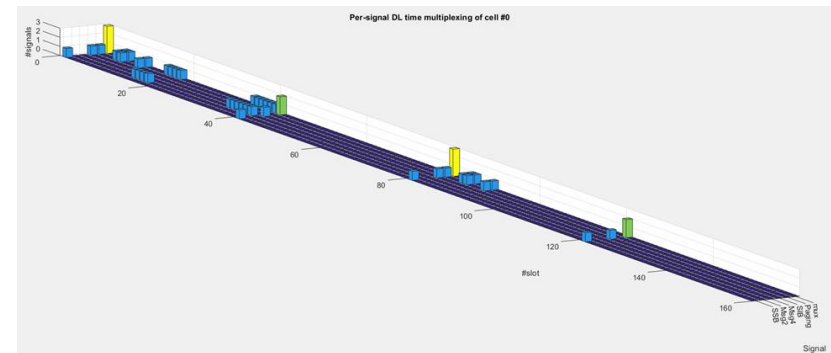
Population and traffic imbalance



Inter and intra beam interference



Coverage vs connectivity



Unified 6G TN/NTN protocol features



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<https://www.ericsson.com/4a4fe0/assets/local/reports-papers/ericsson-technology-review/docs/2023/3gpp-satellite-communication.pdf>

<https://www.ericsson.com/499659/assets/local/mission-critical-comm/doc/ntn-mission-critical.pdf>