

# ETHER

## Self-evolving Terrestrial/Non-Terrestrial Hybrid Networks

### ETHER's Unified Network Architecture – USE CASES –

Flexible IoT Service Delivery | Secure Airspace Operations  
Seamless Handheld Device Access



#### Flexible payload-enabled service provisioning to semantics-aware and delay-tolerant IoT applications

Global IoT coverage using LEO satellites with regenerative payloads, enabling delay-tolerant NB-IoT services for mMTC in remote or underserved areas with high energy efficiency.



#### Unified RAN for Direct Handheld Device Access at the Ka Band

Direct Ka band access from LEO satellites to handheld devices through novel antenna design and distributed beamforming from satellite swarms, providing seamless, high-speed connectivity and global coverage even in remote locations.



#### Architecture Demonstration for Airspace Safety-Critical Operations

Reliable, resilient and sustainable communication for aircrafts via seamless handovers, leveraging multi-access edge computing, ensuring low-latency and energy-efficient resource allocation for air-space safety critical operations.



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