6G-NTN² NEXUS

www.6g-ntn-nexus.eu

COORDINATOR

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TECHNICAL MANAGERS

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DURATION

3 years

KICK-OFF

1 Sept 2026

Grant Agreement No.: 101287281 - HW-JU-SNS-2025-01-STREAM-B-03-01
Call: HORIZON-JU-SNS-2025-01

One consortium, whole NTN ecosystem

26 partners

8 stakeholder groups

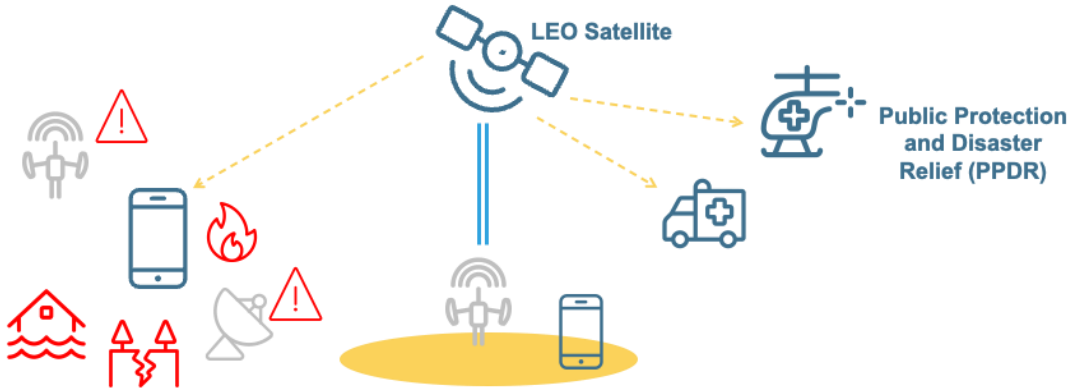
10 countries

IT · FR · ES · SE · DK · DE · LU · UK · CH · KR



Two Scenarios, One Integrated 6G TN–NTN System

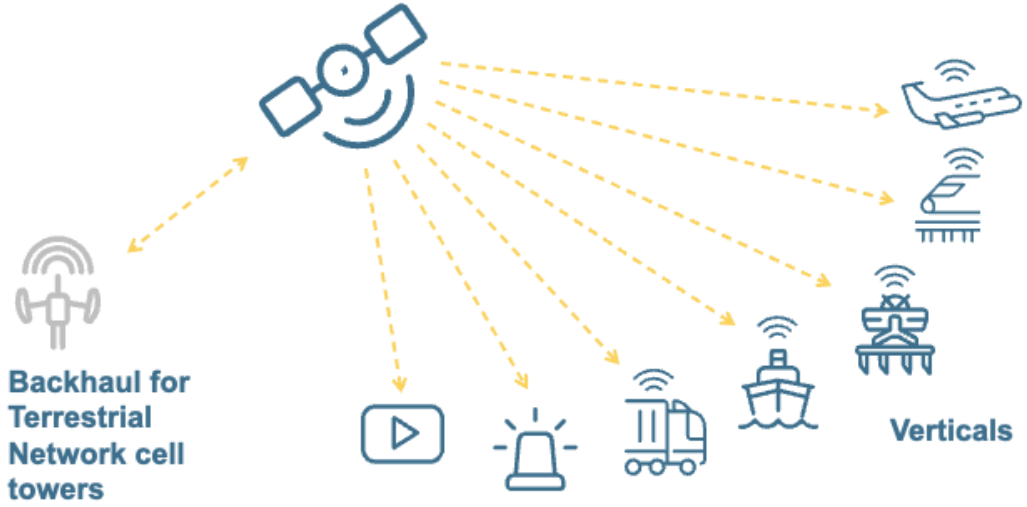
Direct-to-Device



below 7.125 GHz

Focus: Mobility, ubiquitous coverage and emergency response

Direct-to-Mobile platforms & PNT



above 10 GHz

Focus: Throughput, industrial automation, transport, entertainment, public safety

Scope and Proofs of Concept

Research, design, assess and demonstrate novel system-level techniques and reinforced TN-NTN integration for the **6G 3GPP NTN standard**, meeting the **IMT-2030 satellite requirements** of ITU-R WP4B.

PILOTS & DEMONSTRATIONS

PoC #1

Harmonized sub-7 GHz radio access for D2D TN-NTN connectivity

sub-7 GHz · D2D

PoC #2

Harmonized TN-NTN PNT and communications above 10 GHz for Direct-to-Mobile platforms

> 10 GHz · PNT + Comms

PoC #3

Reconfiguration and orchestration of TN-NTN towards resilient and secure infrastructure

Orchestration · Resilience

In-kind in-orbit demonstrations



THANK YOU

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