



SNS Call 3 Webinar

Communication Infrastructure Technologies and Devices

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Scope & Orientations:

- Ultra-high energy efficiency especially in optical networks
- 3D networking for 6G networks
- Development of low-energy communication solutions
- New IoT components and devices
- Unified NTN service provision
- Integration of optical and wireless technologies

Starting TRL: TRL 2-3

Ending TRL: TRL 4, and if/where relevant TRL 5 (mature 6G technologies and solutions for verticals)

Expected outcomes:

- Advanced solutions and technologies for optical, terrestrial and non-terrestrial networks
- Energy-efficient solutions for optical networks
- Unification of terrestrial and non-terrestrial networks (3D networking)
- Development of low-power communication systems, especially for short-range networks
- Non-terrestrial network architecture to optimise ubiquitous service provisioning, flexibility, scalability and cost efficiency
- Optimal combination of optical and wireless technologies and their integration in the network architecture
- Algorithms, software and hardware implementations as PoC and for later trials systems
- Dissemination of solutions for international consensus building
- Contributions to international standardisation

Project Number	Project Acronym	Project Duration (M)	Project Total Costs (€)	Project Requested EU Contribution (€)
101139182	AMBIENT-6G	36	8,420,562.50	7,994,612.50
101139133	NexaSphere	36	8,559,491.68	7,997,516.08
Total			16,980,054.18	15,992,128.58