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Insights from the Vision and Roadmap of the European SNS Research Program

Smart Networks and Services Joint Undertaking

Erzsebet Fitori, Executive Director Sophia Antipolis, France 3 April 2024







Our European Research Work Program

Non-terrestrial Networks in our 6G Vision



SNS JU is the European Research path to **6G**



- Representation of Private & Public Sector (50/50)
- Governing Board: Strategic orientation and roadmap

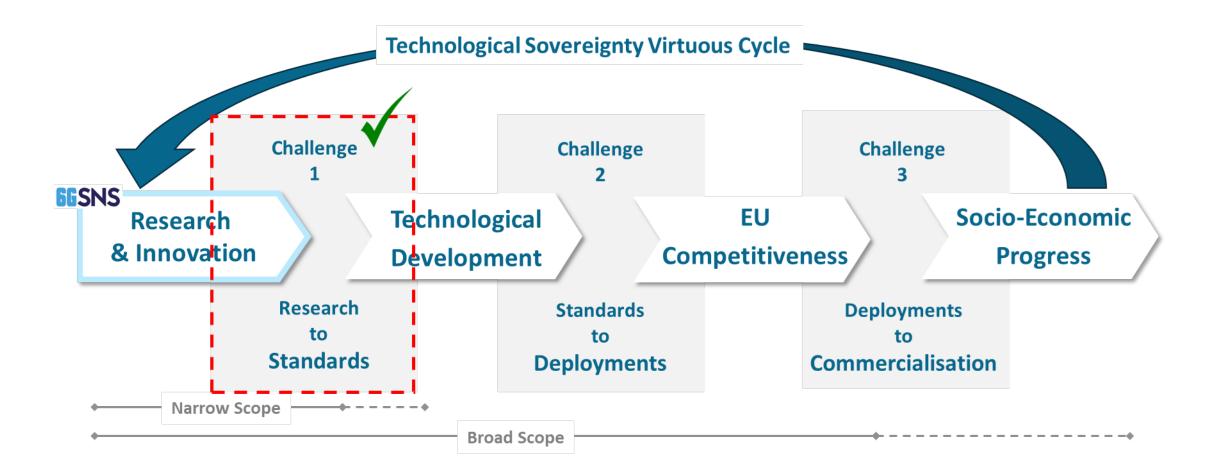
Total Funding 1.8 Billion € 2022-27

- Long term commitment (planning and implementation)
- Synergies with national investments and 6G R&I plans , through a coordinated approach.
- Consultation and Strategic Guidance.
- Strategic coordination of EU piloting and deployment initiatives
- Synergies with other partnerships and associations
- Advisory body
- Cooperation in mutually relevant domains
- Associated Countries / multilateral participation
- Long term collaborative cross-roadmaps possible

Collaboration and Partnerships is a Strategic priority for the SNS program



DIFSNS Our common challenge is to move **from R&I to Impact**

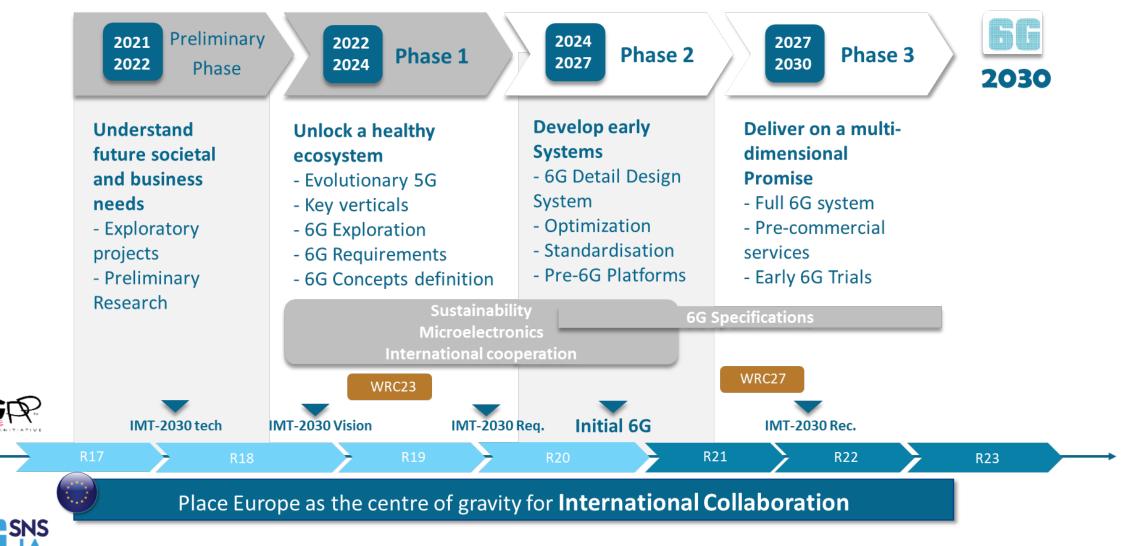


TS: the ability for Europe to develop, provide, protect, and retain critical technologies

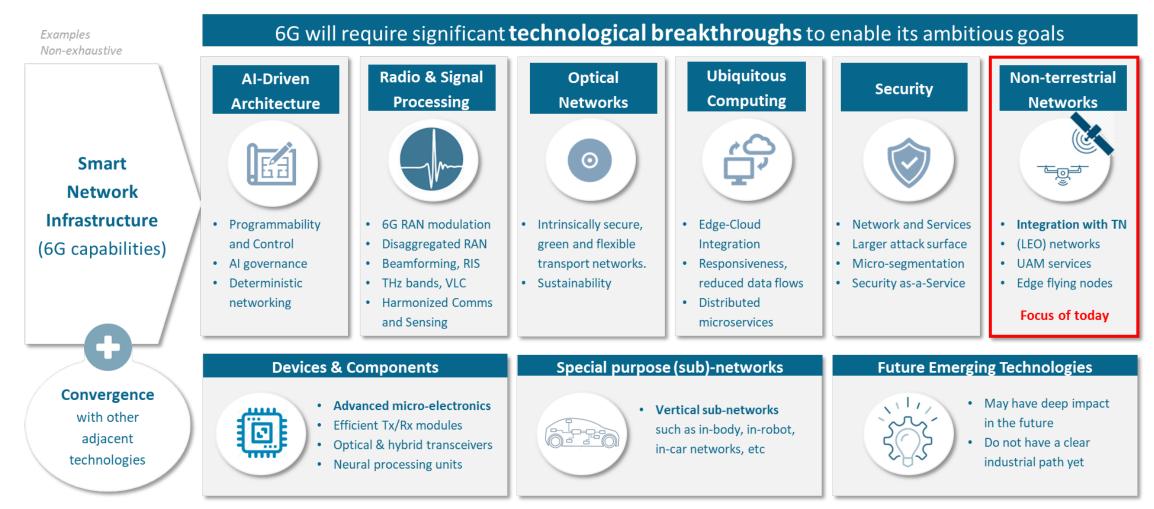


Our R&D Program follows a **Phased Approach**

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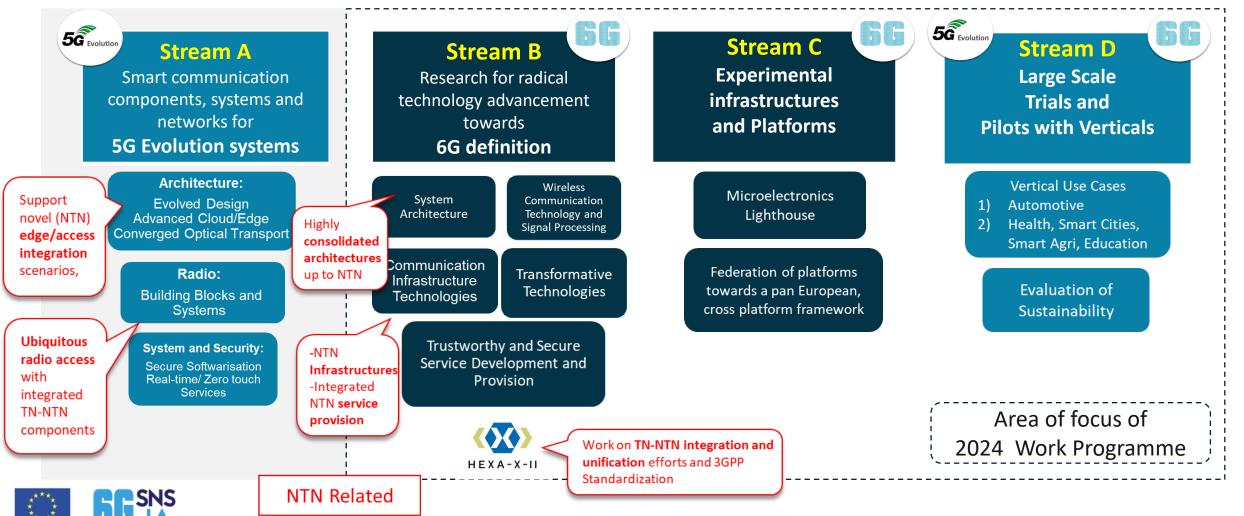
FGSNS NTN will be a **key component** of future **6G networks**



Source: Networld Europe SRIA - https://www.networldeurope.eu/sria-and-whitepapers/

FFSNS Entering a new phase in EU research and development

EU upfront commitment of €900M up to 2027

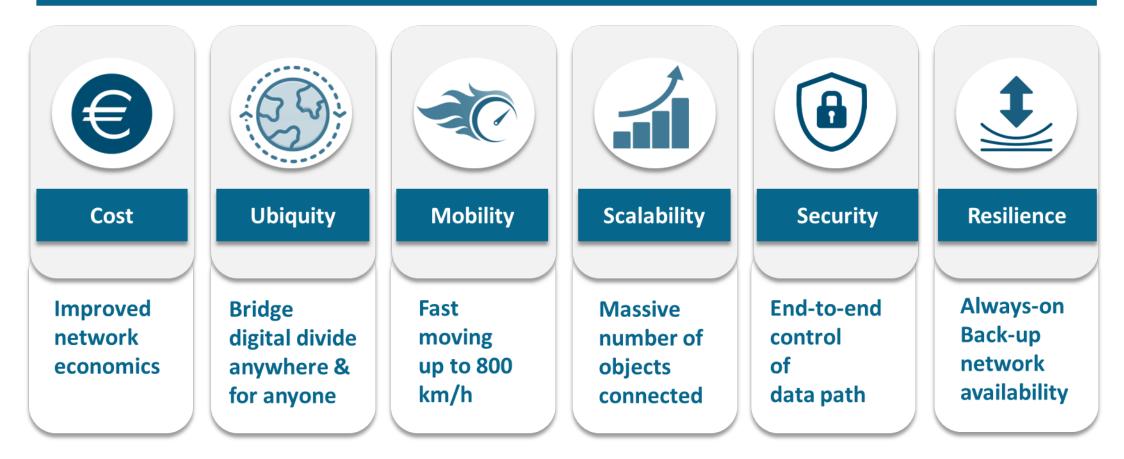


2024 Annual Work Program Highlights

129 MM <a>E What is new?	Stream B Research for radical technology advancement towards 6G definition	Stream C Experimental infrastructures and Platforms	Stream D Large Scale Trials and Pilots with Verticals	Other Synergies and CSA
Higher TRL Focus on 6G Standardisation Extended PoCs	B1. System ArchitectureB2. Wireless TechB3. Infrastructure & devicesB4. Reliability & Security			CSA. Operations
International Collaboration	B5. Japan B6. South Korea			
Lighthouse Projects	B7. Sustainability	C. Microelectronics		
Artificial Intelligence	B8. Reliable AI	Q		
Trials with Verticals		OPEN	D. Large Scale Trials	Synergy EU-Rail FRMCS
SP SNS		Open for Proposals Until 18 April 24		

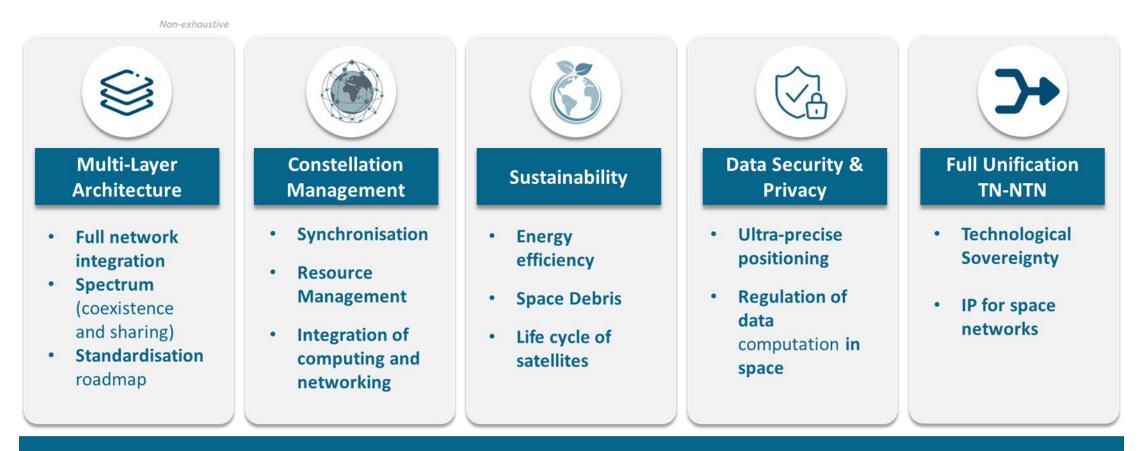
FFSNS NTN offer clear advantages...

TN-NTN Integration guarantees full-service reliability





FFSNS ...but **technology breakthroughs in R&D** still required



TN-NTN convergence will incentive network management and orchestration innovation



Relevant NTN-related projects of SNS JU





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FFSNS In summary....

- The definition of the 6G vision has begun and NTN is recognized as playing a pivotal role in future fully integrated systems.
- SNS vision is multilayer and involves the cooperation of terrestrial, airborne and space nodes.
- A **complex landscape for research ahead** as each layer of the architecture presents differing challenges.

Europe should not miss this opportunity to be at the forefront of the next frontier in telecommunications

