APRE
Agenzia per la Promozione della Ricerca Europea

6GSNS

SNS – Smart Networks and Services

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SNS JU - European Smart Networks and Services Joint Undertaking

Institutionalized Partnership: aims to facilitate and develop industrial leadership in Europe in 5G and 6G networks and services.

The SNS JU has two main missions:

1 – Fostering Europe's technology sovereignty in 6G by implementing the related research and innovation (R&I) programme leading to the conception and standardisation around 2025. It encourages preparation for early market adoption of 6G technologies by the end of the decade. Mobilising a broad set of stakeholders is key to address strategic areas of the networks and services value chain. This ranges from edge- and cloud-based service provisioning to market opportunities in new components and devices beyond smartphones.

2 – Boosting 5G deployment in Europe in view of developing digital lead markets and enabling the digital and green transition of the economy and society. For this objective, the SNS JU coordinates strategic guidance for the relevant programmes under the Connecting Europe Facility, in particular 5G Corridors.

Smart Networks and Services Strategic areas

Applications

- Seizing the "Trillion €" opportunity in network-based industrial sectors
- New types of applications

Industrial leadership

- Starting 6G race: an opportunity to consolidate EU lead

Societal, Sustainable Development Goals

- Smart connectivity underpinning key societal issues

Sovereignty/ Open Strategic Autonomy

- Value chain approach for a comprehensive EU supply capacity
- Leverage to components to cloud services

2030 Digital decade

- Horizone Europe (HE)
- Connecting Europe Facility (CEF)
- Digital Europe Programme (DEP)

Joint Undertaking: a response to the magnitude of the challenges

European Commission

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SNS pillars - 6G R&I in Europe

5G PPP bridging phase

- The Hexa-X flagship + 9 6G exploratory projects = 65 M€

Accelerating 5G Deployment Connecting Europe Facility (CEF2)

6G Vision and R&I across the broader supply chain

- Tasks set by Council Regulation (2021/2085)
- EU upfront commitment of **€900M** between 2021-2027 (to be at least matched by industry)
- Close involvement of Member States for strategic guidance
- Dedicated Programme Office
- SNS Call 1 (~250 M€): 35 new Projects started on 01/01/2023 with

288 unique beneficiaries
~18% funding for SMEs
~30% not 6G-IA members

SNS R&I Work Programme 2023-2024
(public from 15 December 2022)

6G

Stream B (RIA): Research for revolutionary 6G technology and systems

Stream C (RIA): SNS experimental infrastructures

- ✓ SNS R&I Work Programme 2023 available online
- ✓ Call 2 opened on 17 January 2023
- ✓ Submission Deadline 25 April 2023

Stream D (IA): Large-scale SNS Trials and Pilots with Verticals

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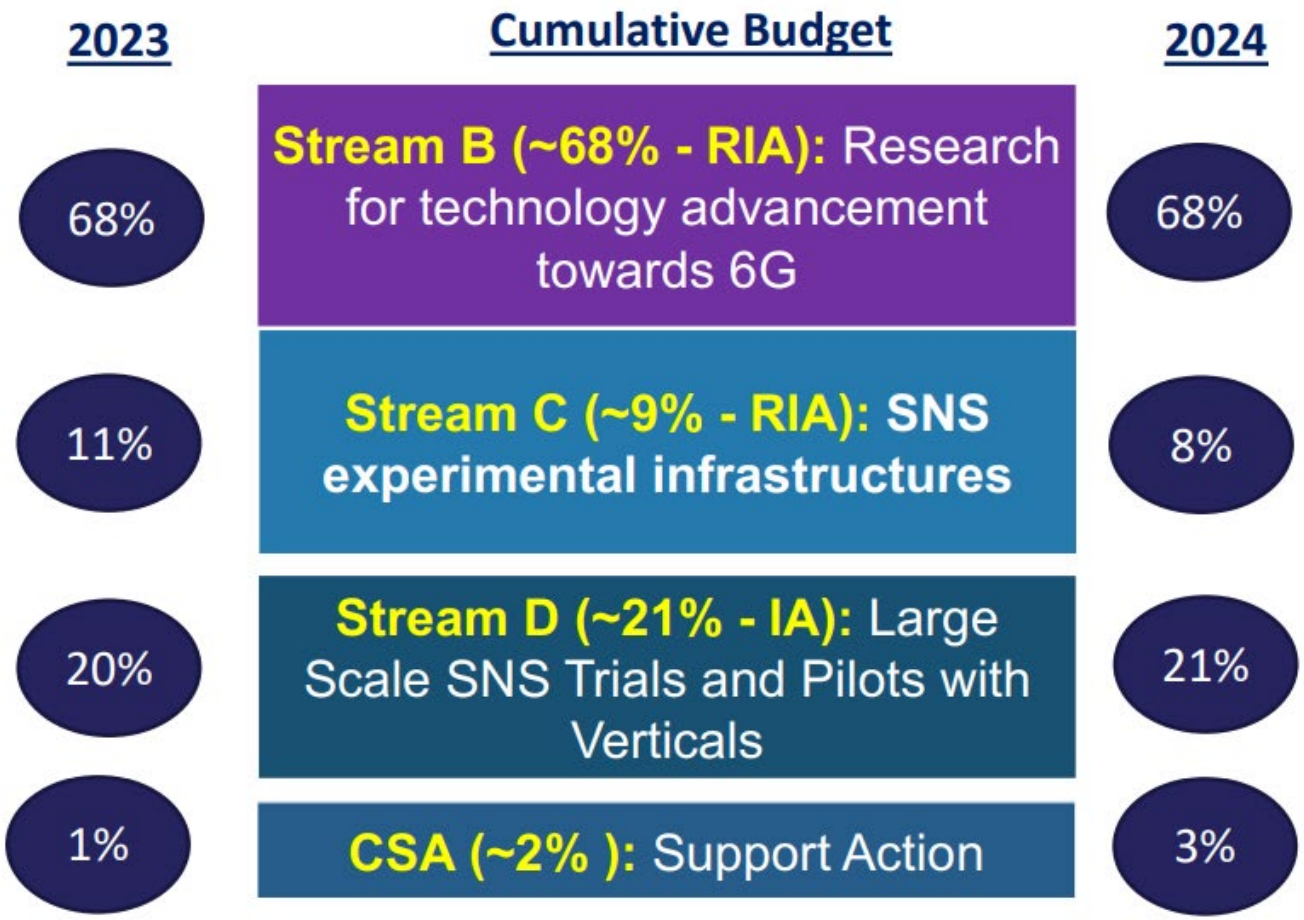
SNS R&I Work Programme 2023-2024



2023 EC Budget:
132 M€
2024 EC Budget:
129 M€

European Commission

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Call 2 budget

Streams / Topics	Topic (Aggregated) Budget (in M€)	Targeted number of projects	Indicative EU contribution per project
HORIZON-JU-SNS-2023-STREAM-B (RIA)			
01-01: System Architecture	20	5	4
01-02: Wireless Communication Technologies and Signal Processing	24	6	4
01-03: Communication Infrastructure Technologies and Devices	12	3	4
01-04: Reliable Services and Smart Security	16	4	4
01-05: Microelectronic-based solutions for 6G networks	15	3	5
01-06: EU-US 6G R&I Cooperation	3	1	3
HORIZON-JU-SNS-2023-STREAM-C (RIA)			
01-01: Complementary SNS experimental Pan-EU federated Infrastructure	14	1	14
HORIZON-JU-SNS-2023-STREAM-D (IA, with FSTP)			
01-01: SNS Large Scale Trials and Pilots (LST&Ps) with Verticals (IA) – Focused Call	27	2	10 to 14
HORIZON-JU-SNS-2023-STREAM-CSA (CSA)			
01-01: SNS Societal Challenges	1	1	1
Total (M€)	132	26	

INFODAY and documents

https://smart-networks.europa.eu/event/sns-call-for-proposals-2023-information-day/

https://smart-networks.europa.eu/
(FAQ + Brokerage tool)

Thank you!

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