- Consolidation and visibility of the SNS JU results.

- Groundwork of future industrial capabilities (e.g. devices, AI, testbeds).

- Global positioning and strategic partnerships (e.g. with India, standards bodies).

			TRL	FR	Attn
Stream CSA Coordination and Support Actions towards **Consolidation & visibility of SNS JU Results, International collaboration & Future roadmaps**	**CSA-01.** SNS Operations and Output optimisation	**1 x 3M€ - Support SNS JU** on Programme implementation, project collaboration, community engagement, dissemination and standardisation, EuCNC	N/A	90%	2 years
	CSA-02. 6G Devices	**1 x 2M€ - Define a European roadmap towards 6G ready devices** bringing together main actors of the European telecom and microelectronics industries, vertical support	N/A	90%	Up to 2 years
	CSA-03. EU-India International Collaboration	**1 x 1M€ - Facilitate structured cooperation and exchanges** between EU and Indian stakeholders in connectivity research	N/A	90%	
Stream B **Research for revolutionary and evolutionary 6G Technology and systems**	**B-01.** Collection, Generation and Validation of Datasets suitable for training AI Models for 6G Networks and for AIaaS	**1 x 8M€ -** High-quality real-world and synthetic datasets (and data space) for improving network performance and empowering networks to provide AI-as-a-Service to vertical industries and applications	Up to 7 (5 or 6 for specific outcomes	70% (IA)	
Stream C **Smart Network & Services experimental infrastructure**	**C-01.** SNS experimental infrastructure	**1 x 8M€ -** evolvable infrastructure for running experiments and for validation of key 6G technologies (6 technology areas) during SNS Phase 3	From TRL 4 up to 5 or 6	90% (RIA)	FSTP (20%)

CSA-01 SNS Operations and Output optimisation

- Community-level collaboration across Phases 1, 2 and 3 - supporting activities foreseen in the cross-project collaboration agreement.

- Facilitate the operation of working groups of the SNS JU interest

- Monitor outcomes against SNS JU Key Performance Indicators (KPIs) plus the 6G KPIs and Key Value Indicators (KVIs)

- Support the SNS JU: international cooperation, cooperation with national authorities, vertical sectors, and relevant European bodies and initiatives.

- Further develop and update the Europe-wide cartography of relevant initiatives and identify interlinkages with national and EU-level programmes.

- Communicate and promote results across technical, industrial, and policy communities (SNS JU Communication policy and priorities).

- Support the organisation of EuCNC & 6G Summit conferences 2027 and 2028.

- Support the translation of research outputs into standardisation activities.

A project duration of 2 years is expected.

- **A European roadmap towards 6G-ready devices, together with a companion implementation strategy**

- **Federate European relevant actors around a device initiative for the next MFF**

- A structured dialogue: European telecom, microelectronics industries, Vertical Industries, Institutional players (e.g. for security of public service-type applications)
- Identification of the key/priority use-cases - including core requirements (storage, computing, intelligence, connectivity.)
- SWOT for the global EU technological competitiveness on 6G devices.
- Identification of key technologies (notably in the microelectronics domain) - gaps in the supply chain, how to "close the gaps" (technological sovereignty, not autarky).
- Potential linkages with the Chips JU and their tools, like the pilot lines.
- 3 basic scenarios: i) TN only devices corresponding to strategic verticals;
  ii) TN and NTN compatible devices, Integration of WiFi (indoor scenarios);
  iii) high-end smartphone-like devices as benchmark scenarios
- Definition of an option-dependent roadmap (preferably based on open technologies e.g., RISC V *where applicable*)
- Consider the role of AI at the edge is particularly relevant.
- Eco-friendly device design from a construction/deconstruction perspective.
- Software development ecosystem
- Identification of relevant national initiatives - cooperation strategy

A project duration of up to 2 years is expected.

- Industrial policies and approaches in India and the EU in the 6G context, including opportunities and risks.

- Analysis of the industrial ecosystems in both regions (Requirements, complementarities, areas for cooperation).

- Identification of priority domains of 6G technological cooperation

- Joint exploratory on 6G Vision, technologies, platforms, socioeconomic aspects.

- Research-oriented roadmaps for possible future collaborations

- Alignment of views on future exploitation in international standardisation

- Describe how the EU-India cooperation will be organised within the project

- How to engage with Indian stakeholders & Interact with relevant Indian organisations.

- Description of specific cooperation activities (exchange of information and results, sharing of data, sharing of methodologies, researcher exchanges and visits, joint workshops, joint testbeds etc.

- A strong and demonstrated innovation and industrial understanding of the 6G ecosystem of India is expected.

B-01. Collection, Generation and Validation of Datasets suitable for training AI Models for 6G Networks and for AIaaS

- Collecting and making available high-quality real-world datasets from realistic deployment scenarios
  - operational networks (real data) or
  - network digital twins
  - gen AI tools,
  - experimental platforms (emulators) or trials,
- Full protocol stack, open-source simulators for producing correlated reference datasets at different network layers, and across different network points.
- Support for multi-radio access technologies, Multi-band operation with accurate propagation and channel modelling
- Network anomalies and network attacks
- Open-source framework and toolset for generating high quality realistic synthetic data, tailored to diverse environmental scenarios

Innovation Action – up to TRL 7

- Validation, quality assessment of the existing SNS JU project datasets, verifying the data's accuracy, consistency, and completeness, ensuring their alignment with the specific use case and performance requirements of the 6G network.

- Metadata definition (to have a common descriptor for the data), methods to verify that the data is valuable for the training of realistic AI models and ensure data reusability.

- Engagement with standardisation bodies and relevant open-source communities

- Creation of tutorials and implementation of dissemination activities to encourage widespread use of the framework

This Topic expects proposals with **strong industrial participation** with demonstrated **AI and operational expertise** to ensure **credibility, usability, and engagement with standardisation bodies**. Academic institutions and RTOs will complement consortia where their expertise adds clear value

C-01. SNS experimental infrastructure

- Wide range of technologies towards 6G (e.g., RIS, ISAC/JCAS, NTN/5G, security, privacy, core evolution, AI, RAN evolution, network disaggregation…).
- Hosting advanced pilot "6G" use-cases not feasible during the lifecycle of ongoing Stream D projects
- A well-defined catalogue of experimentation and KPI reporting tools
- A low-barrier entry to an experimental facility enabling SNS-JU technologies, to run experiments.
- Providing trial facilities to enable hands-on experience
- Integrating contributions from participants to expand the capabilities of the platforms.
- Ensuring security provisions for remote connectivity
- Provide plans for reusability and evolvability of the platform over the lifetime of the SNS JU Programme.

Experimental activities are expected to bring the technologies under test from TRL 4 up to 5 or 6 by the end of the experimentation cycle.

Technology added to the platform needs to have a TRL 5 as a minimum.

Experimental platforms are expected to have a TRL 6.

- The platform will be open to any participant interested in running an experiment.
- No funding for the experimenters, who will propose to join according to their interests.
- FSTP (Financial Support to Third Parties) is available to developers from current running SNS-JU projects to integrate their solutions into the platform.
- SNS projects in Phase 3 are expected to include integration and experimentation resources with the new infrastructure in their Grant Agreements.
- For SME and academia, the project will allocate up to 20% of the proposal budget on the FSTP mechanism in the form of up to 50 K€ grants to support the integration efforts of key technologies developed in previous SNS JU calls until Call 2025.
- Solutions from SNS JU Call 2027 projects are not eligible for FSTP