6G SNS (SNS JU)

Nature of the Initiative	European Project	International Project	Regulation
Mission	They aim to facilitate and develop industrial leadership in Europe in 5G and 6G networks and services.
Sector(s) addressed	Green Deal (including Smart Communities)	Agriculture	Mobility	Health	Manufacturing	Energy	EOSC (Research)
Leading organisation	European Commission & 6G Industry Association
Members (approx.)	27+
Founded (Year)	2021
Social Media Presence	LinkedIn	Twitter – X	YouTube
Relevance for Industry 4.0	It strengthens Europe's industrial position in the global smart networks and services value chain. It pools EU and industrial resources to accelerate the development of secure, energy-efficient smart networks and services technologies.

Key information	Levels	Important links
Data Space Technical Specifications	★	Website
Data Space Governance	★★★★	Reference Documentation
Data Space Demonstration	★★★★	Events, EuCNC & 6G Summit 2024
Data Space Adoption	★★★★	Project Portfolio Link
Connected Data Space 4.0 Initiatives	ETP 4 HPC, Chips JU (formerly known as KDT JU), Quantum Flagship	

Additional Information

Contact (Name/E-mail)	Organisation: SNS JU Email: CNECT-E1-SNS@ec.europa.eu

What is 6G SNS?

The Smart Networks and Services Joint Undertaking (SNS JU) is a public-private partnership with a double mission to:

- foster Europe's technology sovereignty in 6G
- boost 5G deployment in Europe

The SNS JU funds research and innovation (R&I) projects to strengthen Europe's industrial position in the global smart networks and services value chain. It pools EU and industrial resources to accelerate the development of secure, energy-efficient smart networks and services technologies.

It shapes a strategic R&I roadmap and deployment agenda to make the EU 6G vision a technological and business reality. The SNS JU targets a massive digitalisation of societal and business processes through intelligent and sustainable connectivity across the human, physical and digital worlds.

The SNS JU aims to lead the conception, development, and standardisation of next generation connectivity technologies and encourage early market adoption of 6G by the end of the decade. To do so, it works with a critical mass of European stakeholders and facilitates international cooperation on various 6G initiatives.

The SNS JU also aligns with EU countries on 6G R&I programmes and ensures strategic coordination to boost advanced 5G deployment in Europe.

Mission & Objectives

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. It also contributes to the coordination of national programmes, including under the Recovery and Resilience Facility and other European programmes and facilities such as Digital Europe Programme (DEP) and InvestEU.

General objectives

- Foster Europe's technological leadership in future smart networks and services by reinforcing current industrial strengths and by extending the scope from 5G connectivity to the broader strategic value chain including cloud-based service provisioning as well as components and devices;
- Align strategic roadmaps of a wider range of industrial players, including not only the telecommunication industry, but also actors from the Internet of Things, cloud, and components and devices;
- Advance European technological and scientific excellence to support European leadership to shape and master 6G systems by 2030;
- Strengthen the deployment of digital infrastructures and uptake of digital solutions in the European markets, in particular by ensuring a strategic coordination mechanism for the CEF2 Digital programme as well as synergies within CEF2, and with DEP and InvestEU as part of the scope and governance of the Smart Networks and Services Joint Undertaking;
- Prepare the European smart networks and services supply industry for the longer-term opportunities emerging from the development of vertical markets for 5G and later 6G infrastructures and services in Europe;
- Facilitate digital innovation, by 2030, meeting European market needs and public policy requirements, including the most demanding requirements of vertical industries, as well as societal requirements in fields including security, energy efficiency and electromagnetic fields;
- Support the alignment of future smart networks and services with Union policy objectives including European Green Deal, network and information security, ethics and privacy, as well as a human-centric and sustainable internet.

Governance

The governance bodies of the SNS Joint Undertaking are:

- The Governing Board (GB)
- The States Representatives (SRG)
- The Executive Director
- The Stakeholders Group

Events

- **EuCNC & 6G Summit 2024**

The 2024 EuCNC & 6G Summit builds on putting together two successful conferences in the area of telecommunications: EuCNC, in its 33rd edition of a series, supported by the European Commission; the 6G Summit, in its 6th edition, originated from the 6G Flagship programme in Finland, one of the very first in its area. The conference addresses various aspects of Beyond 5G/6G communications systems and networks. It brings together cutting-edge research and world-renown industries and businesses, globally attracting in the last years more than 700 delegates from more than 40 countries all over the world, to present and discuss the latest results, and an exhibition with more than 50 exhibitors, for demonstrating the technology developed in the area, namely within research projects from EU R&I programmes.

In the following link you will be able to find more information about the event: **https://smart-networks.europa.eu/event/eucnc-6g-summit-2024/**