



SNS JU Phase 1 projects

***Webinar #2** – Smart Communication Components, Systems and Networks for 5G Evolution Systems*

Dr. Colin Willcock, Chairman of the Board 6G Smart Networks and Services Industry Association (6G-IA)

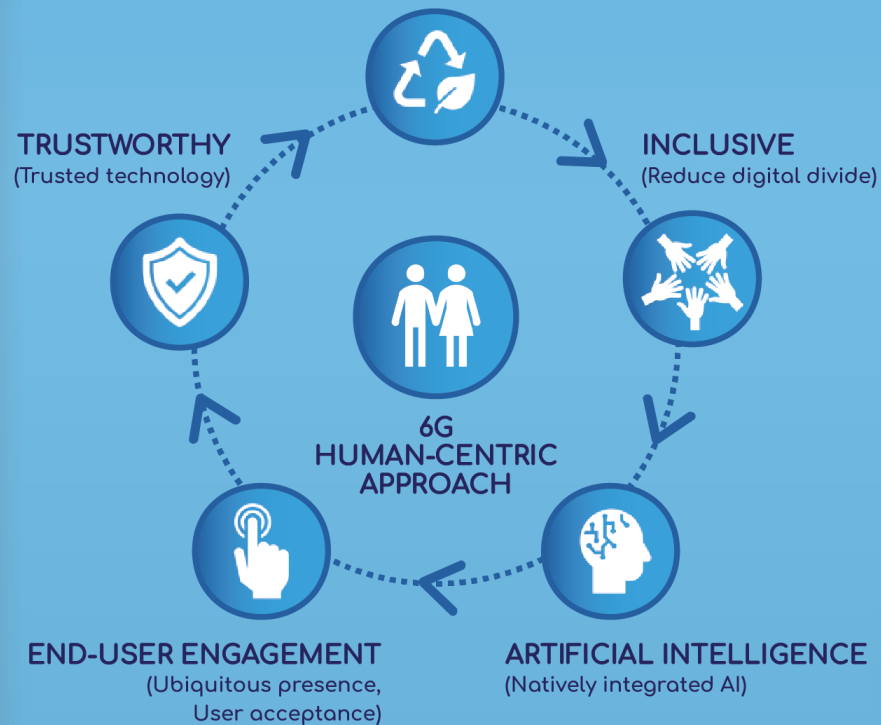
Chiara Mazzone, Program Officer, Smart Networks and Services Joint Undertaking

Moderator: Kostas Trichias, Senior Researcher, 6G-IA



SOCIETY

SUSTAINABLE / ENERGY CONSCIOUS OPERATION
(Sustainable Development Goals, EU green Deal)



POLICY



BASED ON EU VALUES



SECURE INFRASTRUCTURE & DATA



TECHNOLOGICAL SOVEREIGNTY
(Strong position in Global market with International collaborations)

BUSINESS



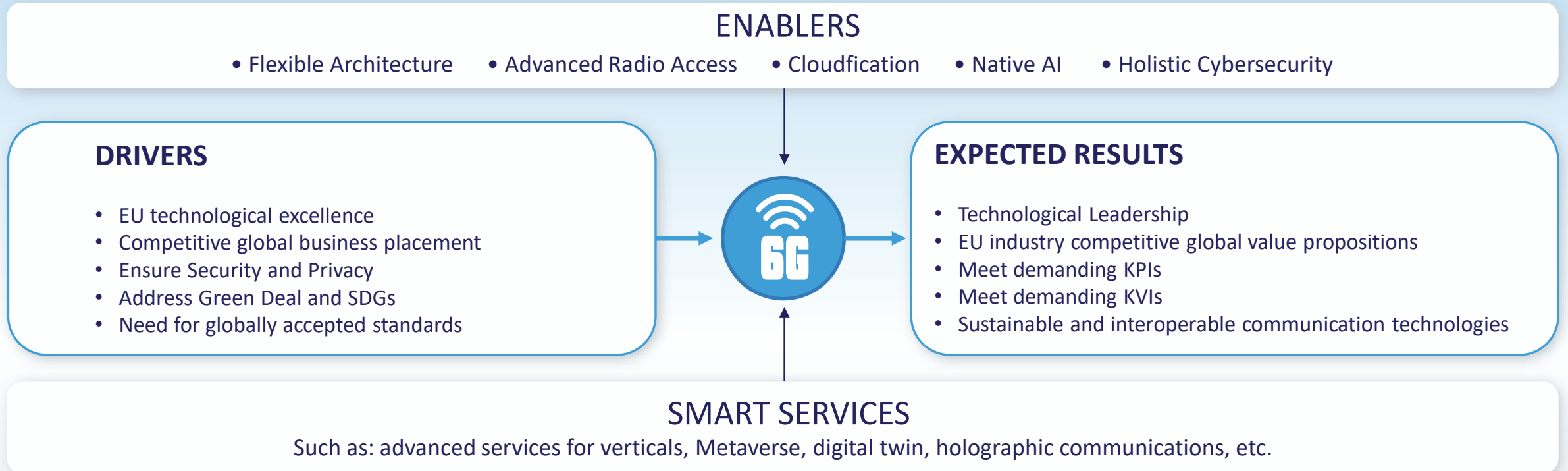
BOOSTING EU ECONOMY
(6G to improve the economy of member States)



NEW BUSINESS
(Emergence of novel business models)



CHALLENGES/CRISIS PROTECTION
(Cope with pandemics & other crisis)



INTERNATIONAL COLLABORATION



- The SNS Collaboration agreement is ready. The signing process has started in the following order
 - 6G-IA Board members – ongoing
 - SNS JU projects – not started yet
 - 6G-IA members – not started yet

- Three types of WGs are envisioned
 - a. SNS Projects WGs (similar to the 5G PPP WGs)
 - b. 6G-IA WGs
 - c. SNS Strategic WGs (To be created by the SNS GB)

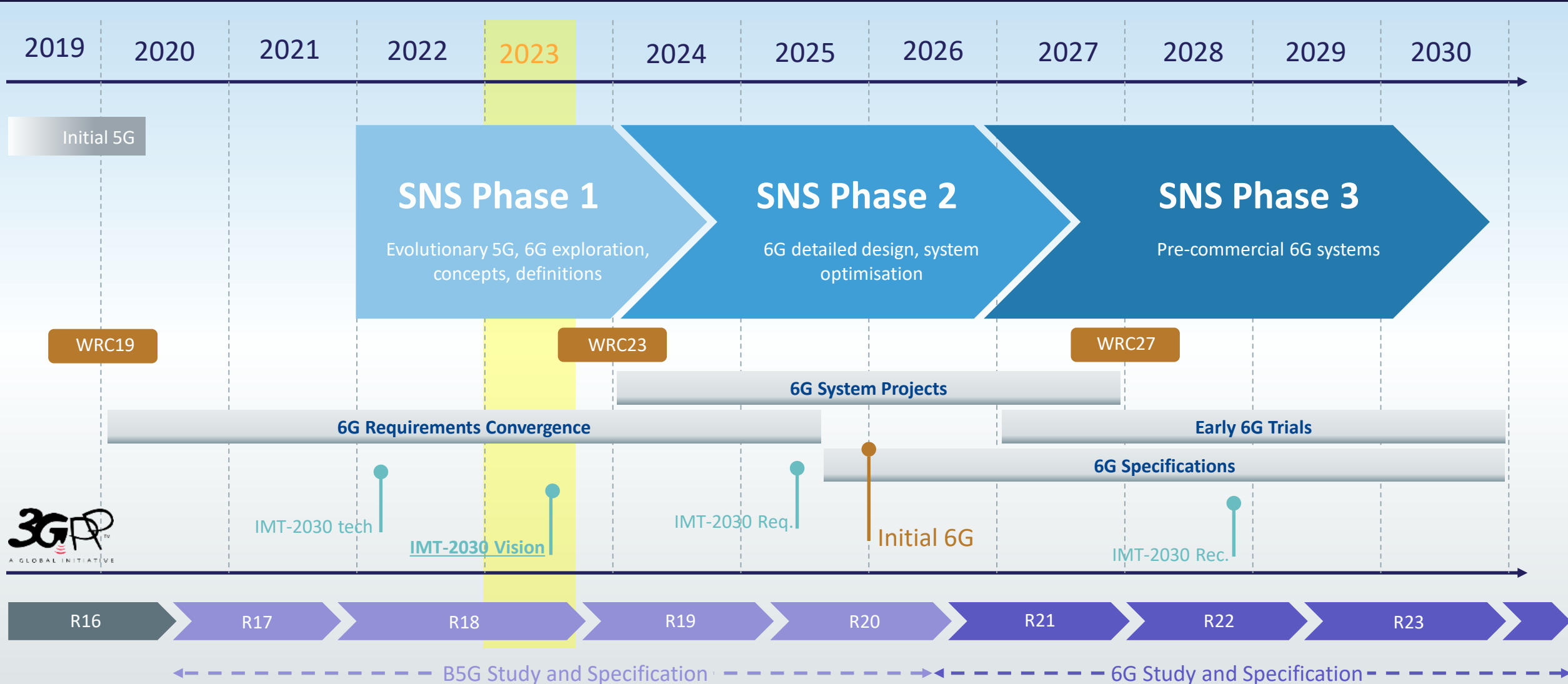
A plan is being prepared – SNS WGs will be discussed/decided involving the Projects

A webinar will take place (May 2023) to present the plan and open a consultation

Target to present the final structure at EuCNC 2023

Guarantee continuity from the 5G PPP era

- Next steps:
 - Until the collaboration agreement is signed by a critical mass of projects/project members an unofficial pre-SB will be setup to start the coordination among projects
 - When a 70% of projects will have signed the CA, an election process will open to select the Chairs for the SB/TB
 - After the SB is officially formed, the formal decisions for the SNS Project WGs will be taken





Evolution

Stream A (RIA): Smart communication components, systems and networks for 5G mid-term Evolution systems

Radio:

Building Blocks and Systems

System and Security:

Secure Softwarisation
Real-time/ Zero touch
Services

Architecture:

Evolved Design
Advanced Cloud/Edge
Converged Optical Transport

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



Stream B (RIA): Research for Revolutionary 6G Technology and systems

System Architecture

Wireless Communication
Technology and Signal
Processing

Holistic System Perspective

Trustworthy and Secure
Service Development and
Provision

Communication
Infrastructure Technologies

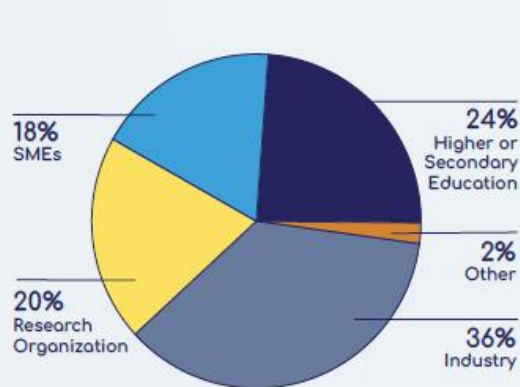
Stream C (RIA): SNS experimental infrastructures

See Results: Europe scales up 6G research investments and selects 35 new projects worth €250 million

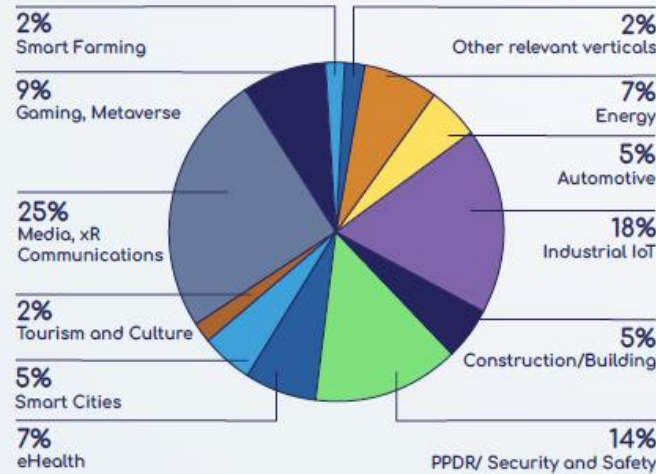


PHASE 1 PROJECTS TO START 1/1/2023

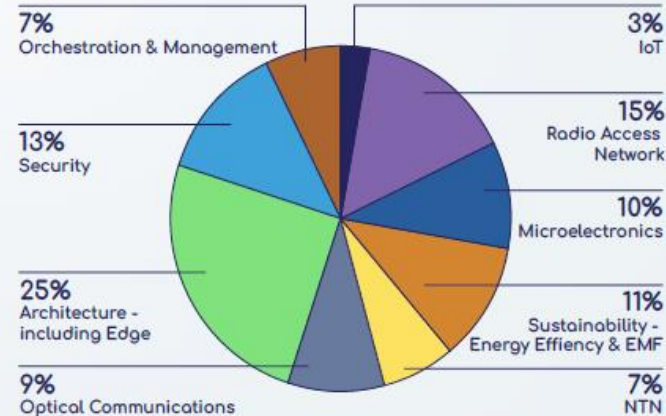
35 R&I Projects, 9 Key Technological Areas, 250 M€ Investments



BENEFICIARIES DISTRIBUTION



PHASE 1 SNS VERTICALS COVERAGE



PHASE 1 SNS TOPICS COVERAGE

- 288 unique beneficiaries
- ~30% not 6G-IA members
- Covering 10+ different Vertical Industries

- ▶ Evolutionary path with complementary research topics to address emerging mid-term requirements
- ▶ Focus on smart communication components, systems and networks for 5G Advanced / pre-6G systems view
- ▶ Energy efficiency a key driver
- ▶ Seamless and cost-effective integration of multiple enablers (AI/ML, IoT, security,...)
- ▶ Strong contribution to mid-term evolution of 5G standards
- ▶ ***Discontinued in SNS Phase 2 - coming late to influence 5G Advanced standardization***

#Green radio technologies

#Ubiquitous radio access

#Sustainable capacity networks

#Evolved architectures for global green systems

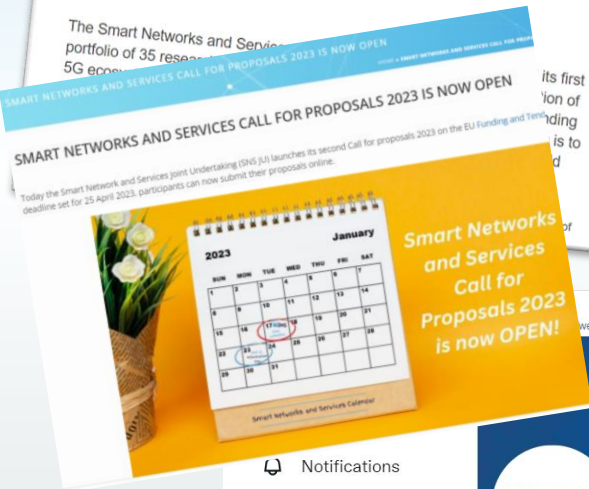
#Edge computing evolution

#Trustworthy and Reliable end-to-end connectivity Software platforms

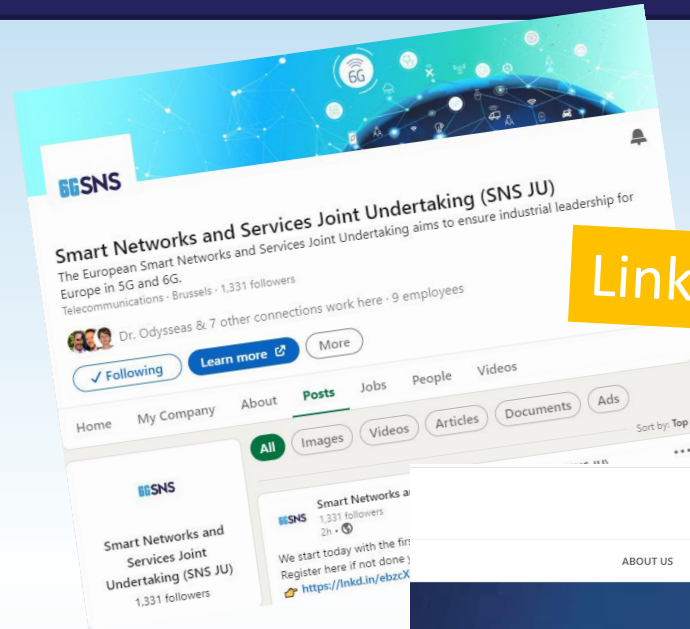
Real-time Zero-touch Service Technologies

6G SNS Projects are instrumental to SNS communication!

Press releases



Twitter



LinkedIn

NEW

YouTube

SNS brand and Projects communication guidelines... (to come)

Website

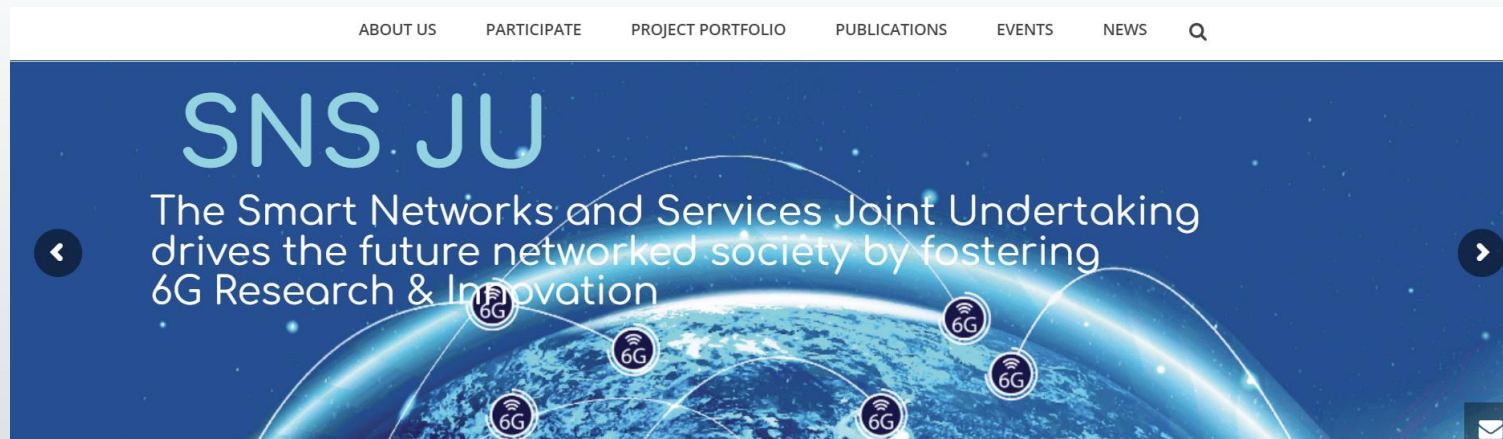


6G SNS



Thank you!

Visit SNS JU website: <https://smart-networks.europa.eu/>



Smart Networks and Services
Joint Undertaking (SNS JU)



@6G_SNS