Smart Networks and Services

Introduction

SNS Call for Proposals 2023
Information Day
23 January 2023

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6GSNS

European Commission

Overall Vision: 2030 Digital Decade

Skills
ICT Specialists: 20 million + Gender convergence
Basic Digital Skills: min 80% of population

Infrastructures
Connectivity: Gigabit for everyone, 5G everywhere
Cutting edge Semiconductors: double EU share in global production
Data – Edge & Cloud: 10,000 climate neutral highly secure edge nodes
Computing: first computer with quantum acceleration

Public Services
Key Public Services: 100% online
e-Health: 100% availability medical records
Digital Identity: 80% citizens using digital ID

Business
Tech up-take: 75% of EU companies using Cloud/AI/Big Data
Innovators: grow scale ups & finance to double EU Unicorns
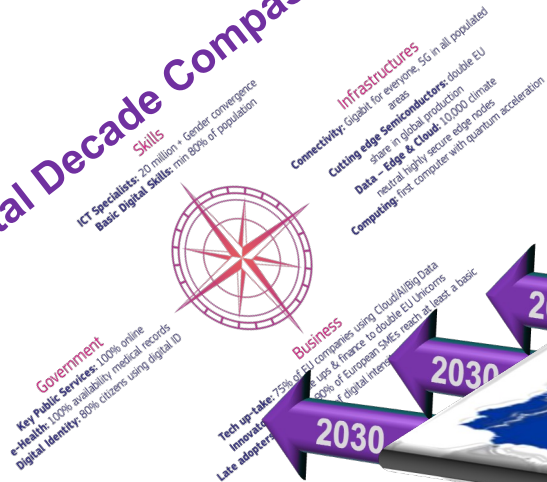**Late adopters:** more than 90% of European SMEs reach at least a basic level of digital intensity

European Commission

DIGITAL EUROPE

- EU-Wide deployment
- Strategic capacities
- Advanced digital skills
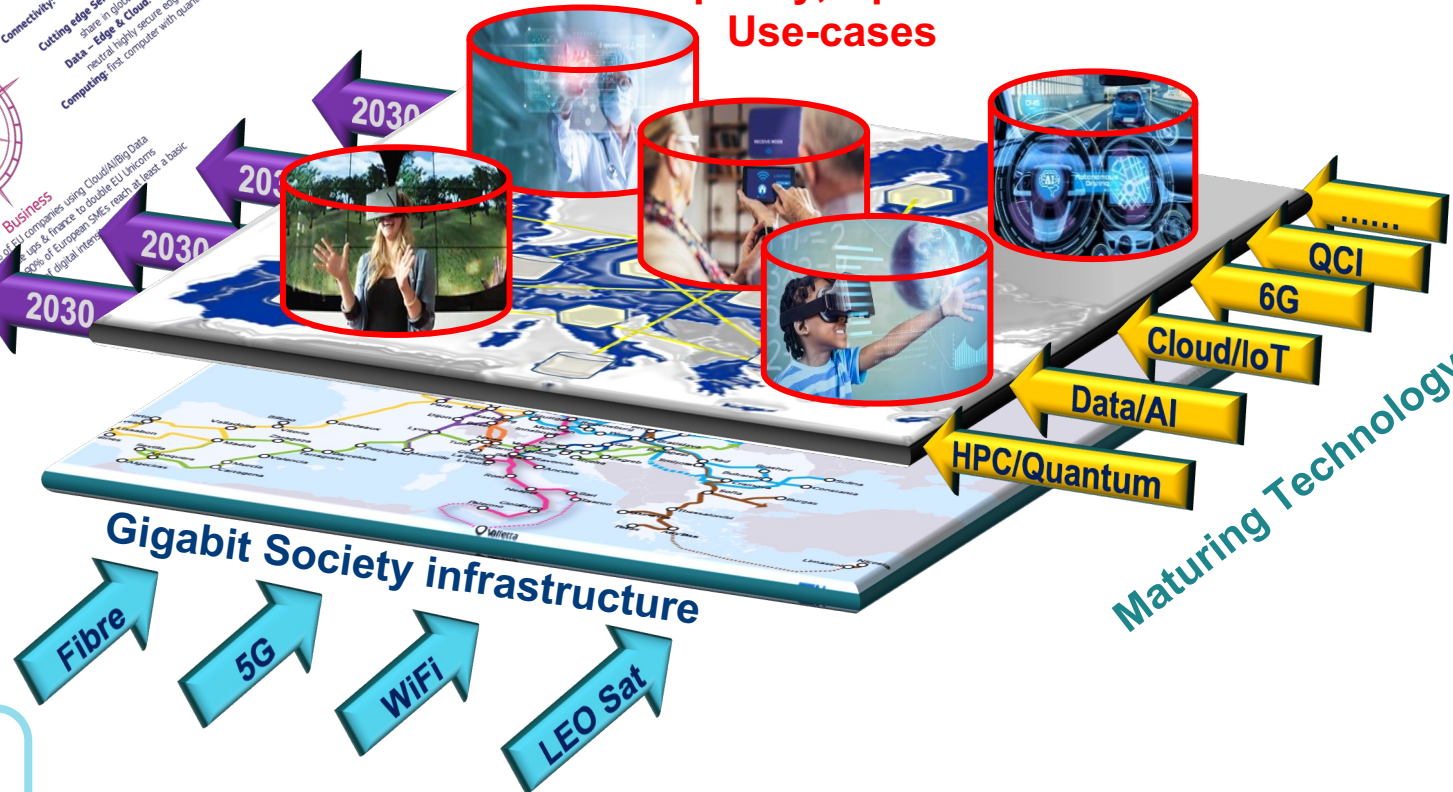- Testing Facility

HORIZON EUROPE

- Preparing/maturing technology & progress (AI/Quantum…)
- By-design regulatory compliance (e.g. privacy friendly, unbiased AI)
- Leading & best in-class (e.g. strategic open autonomy, quantum)
- Prosperity, people & planet lens (green tech, societal challenges, industrial lead...)

Digital Decade Compass

Skills
ICT Specialists: 20 million + Gender convergence
Basic Digital Skills: min 80% of population

Infrastructures
Connectivity: Gigabit for everyone, 5G in all populated areas
Cutting edge Semiconductors: double EU share in global production
Data – Edge & Cloud: 10.000 climate neutral highly secure edge nodes
Computing: first computer with quantum acceleration

Government
Key Public Services: 100% online
e-Health: 100% availability medical records
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Business
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Late adopters: 90% of European SMEs reach at least a basic of digital intensity

Capacity, Uptake & Use-cases

2030

Maturing Technology

QCI
6G
Cloud/IoT
Data/AI
HPC/Quantum

Gigabit Society infrastructure

CONNECTING EUROPE FACILITY

- Strategic Backbones
- Fixed + Wireless Connectivity

Fibre
5G
WiFi
LEO Sat

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Smart Networks and Services Strategic areas

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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

Joint Undertaking: a response to the magnitude of the challenges

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SNS pillars - 6G R&I in Europe

5G PPP bridging phase
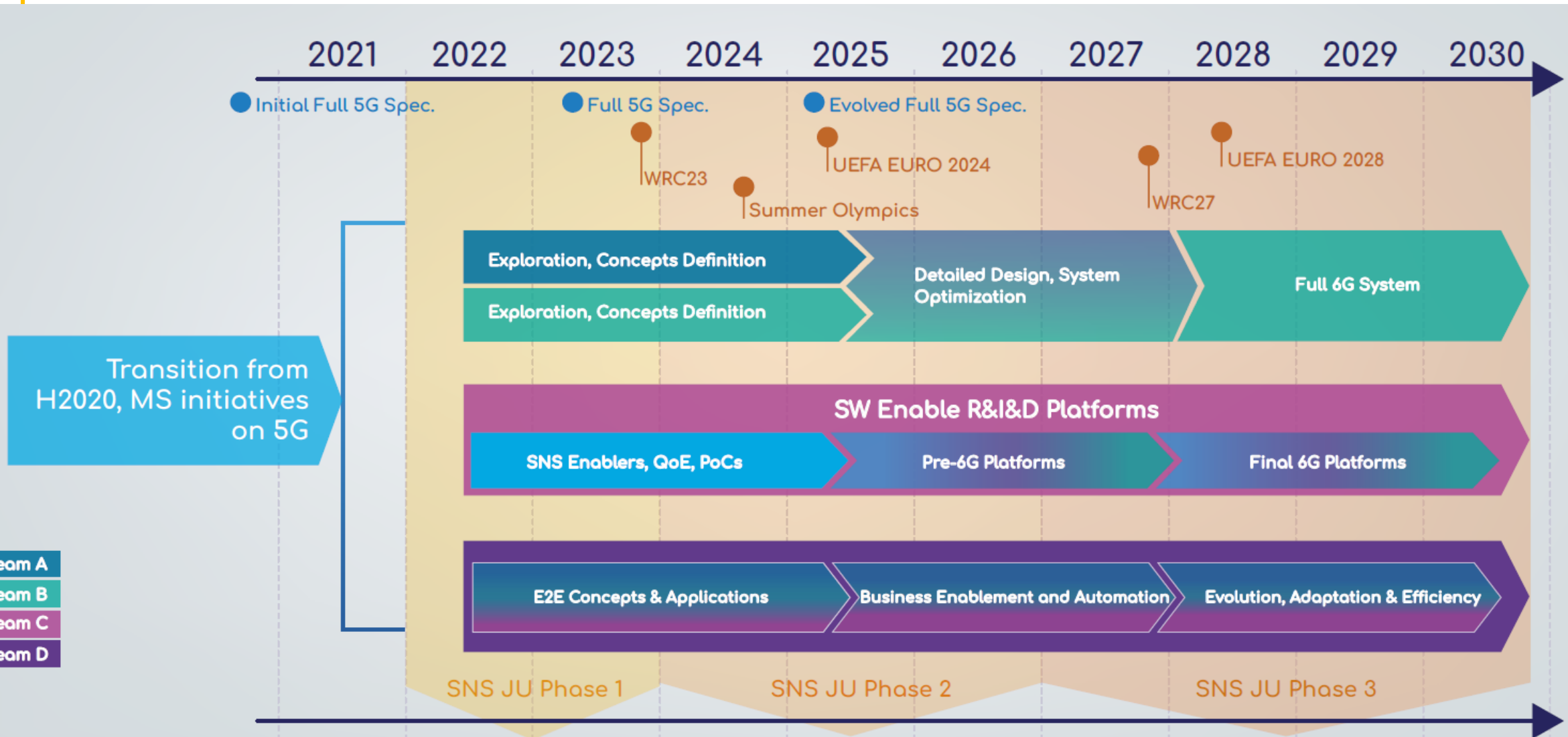
- The Hexa-X flagship + 9 6G exploratory projects = 65 M€

Accelerating 5G Deployment Connecting Europe Facility (CEF2)

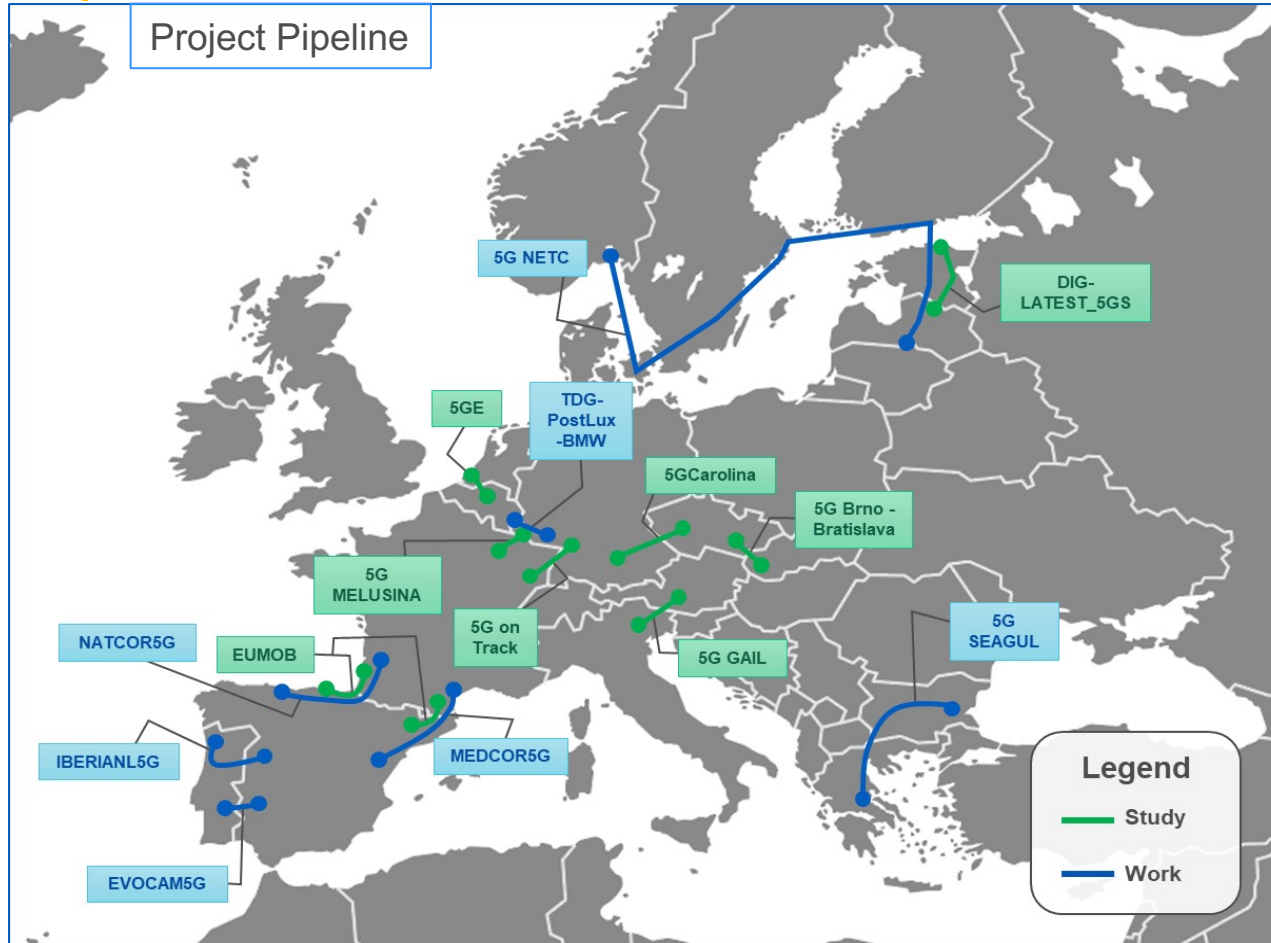**6G Vision and R&I** across the broader supply chain

- 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 JU Roadmap

SNS 5G Deployment pillar
Multi-Country Project (MCP) – 5G Corridors

Project Pipeline

Legend
— Study
— Work

- 15 Call 1 cross-border projects selected:
  - 7 Works projects: € 41 million
  - 8 Inception studies: € 2.1 million
- Good mix of road and rail projects, encouraging geographic coverage
- Room and scope to increase coverage during calls 2 (open until 23/02/2023) and Call 3 (2023 ~Q3)

Call 2: open until 23/02/2023	Budget EUR	Funding Rates
5G Corridors Works	25.000.000	Up to 50% (cross-border)
5G Corridors Studies	3.000000	
5G for Smart Communities	50.000.000	Up to 75%
5G-Edge-Cloud Integra (CSA)	2.000.000	100%

DIGITAL EUROPE - Securing 5G Strategic Digital Infrastructures and Technologies

6G SNS

- Scope

  ➢ Support to 5G cybersecurity, contribute to the 5G cybersecurity "toolbox".

  ➢ Capacity building of security and interoperability aspects of open and disaggregate solutions, such as Open RAN.

- Expected outcome

  ➢ Trusted and secure 5G services.

  ➢ Cooperation between national authorities and private technology providers on piloting, testing and integration of security and interoperability aspects of 5G solutions.

- Targeted stakeholders: All stakeholders, in particular national authorities (such as regulators of electronic communications or security agencies).

  ➢ Projects involving national authorities from several EU Member States will be prioritized.

- Topic details

  ➢ Simple Grants (50% funding rate).   ➢ Foreseen project duration: 12-36 Months

  ➢ Security restrictions under Article 12(5) apply.   ➢ Foreseen project budget: 1-3 M€

Overall budget: 10 MEUR

European Commission

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

✓ SNS R&I Work Programme 2023 available online

✓ Call 2 opened on 17 January 2023

✓ Submission Deadline 25 April 2023

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

Stream C (RIA): SNS experimental infrastructures

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

Thank you!

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