### BEREC Workshop on Open RAN Regulator and policy maker roles and responsibilities

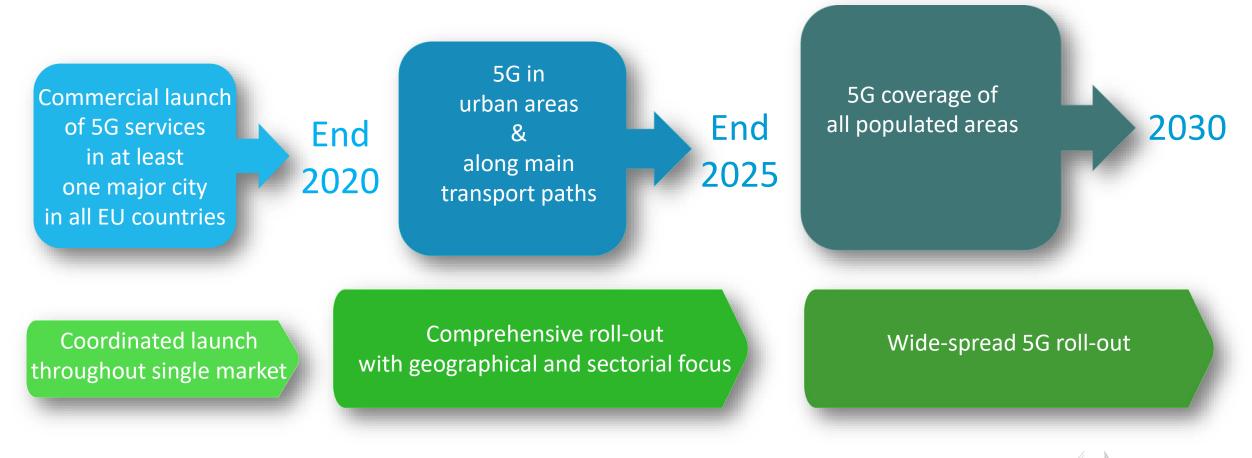
24 May 2022

Peter Stuckmann Deputy Director, Future Networks, DG CONNECT Interim Executive Director, Smart Networks and Services Joint Undertaking





### 5G targets in the digital decade



European Commission

# Next Generation EU

20%

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**26%** (EUR 117 bn) of total allocation<sup>1</sup> to **digital** measures

#### **Key investments**

- Fixed and 5G connectivity infrastructure (EUR 13bn)
- Digitalisation of public administration including services (EUR 43bn)
- Digitalisation of businesses, in particular SMEs (EUR 24bn)
- Digital skills (EUR 20bn)
- R&I and deployment of advanced technologies (EUR 18bn)
- Cybersecurity

#### Key reforms

- Modernising public services and administrations
- Removing existing barriers to 5G
- Mainstreaming digital skills acquisition in school curricula

#### **Multi-Country Projects**

- Microelectronics
- Cloud
- 5G corridors
- Very high capacity submarine cables



# **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

Partnership: a response to the magnitude of the challer es European Commission

# Commission Study on Supply Market Trends

- A common Union approach towards accompanying Open RAN in the context of cyber-security, competitiveness, and innovation
- Enable innovation in the field of Open RAN to the benefit of operators, suppliers, and new European players in particular SMEs
- Commission study (9/2020-7/2021, final report <u>here</u>):
  - Baseline: status of the European and global 4G and 5G supply markets in 2020
  - Existing and expected market trends that could be shaped by the technological and strategic developments in this field
  - Possible policy measures for European and national authorities to address the risks and opportunities of such developments (stakeholder engagement, funding opportunities, standardisation and certification, regulatory measures)

# NIS report on Open RAN Cybersecurity

- Continuity of Toolbox approach, ambition to maintain a coordinated approach on 5G cybersecurity
- Content of report:
  - Security assessment of Open RAN
    - > Impact of Open RAN on identified security risks (EU Coordinated risk assessment)
    - New security risks of Open RAN
    - Security opportunities of Open RAN
  - $\,\circ\,$  Guidance on Toolbox implementation for Open RAN deployments
- Main conclusions:
  - Importance of technology neutral regulation to foster competition
  - Address potential dependencies or lack of diversity across the whole communication value chain for the diversification of supply
  - Cautious approach to moving towards this new architecture is recommended



### International cooperation

- Broad range: Multilateral cooperation, e.g. 5G Global events, Trade and Technology Council EU-US, Digital Partnerships (e.g. Japan)
- Fostering security, diversity, interoperability, and resilience across the ICTS supply chain
- Discuss market trends towards open, interoperable approaches alongside the continued importance of trusted, established
- Take a principles-based, technology-neutral approach to ensure competitiveness and strengthen innovation and technology development in general
- Contribute to enhancing security, performance, energy efficiency, and interoperability of such open, interoperable approaches through research and development funding and support for global and transparent standards development in line with the World Trade Organization Agreement on Technical Barriers to Trade
- Address all of the layers and elements of the ICTS supply chain, from the physical to application layers, from microelectronics components to networks to cloud infrastructures and integration

### 6G R&I in Europe has started





• 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

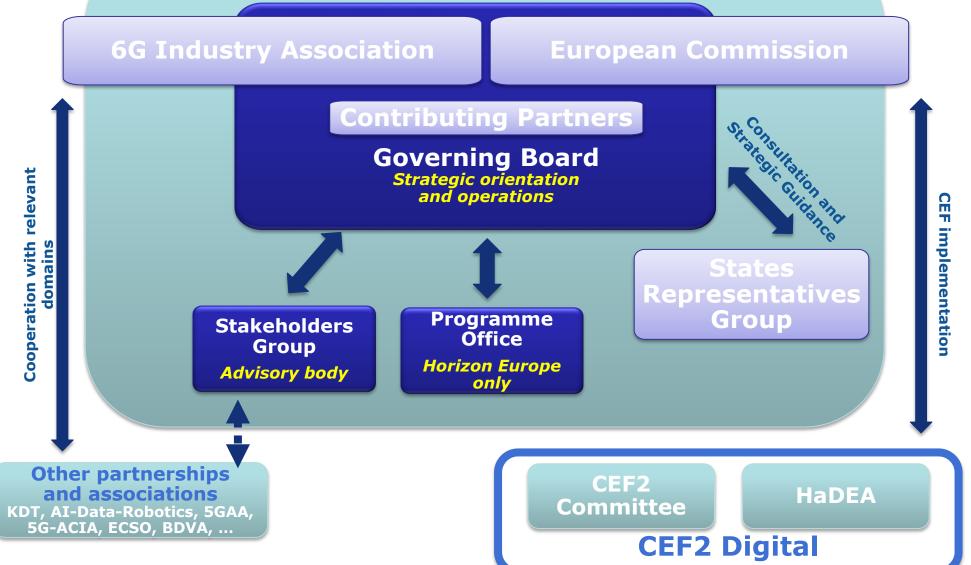
**FESNS** 

- Tasks set by Council Regulation (2021/2085)
- EU upfront commitment of €900M between 2021-2017 (to be at least matched by industry)
- Close involvement of Member States for strategic guidance
- Dedicated Programme Office



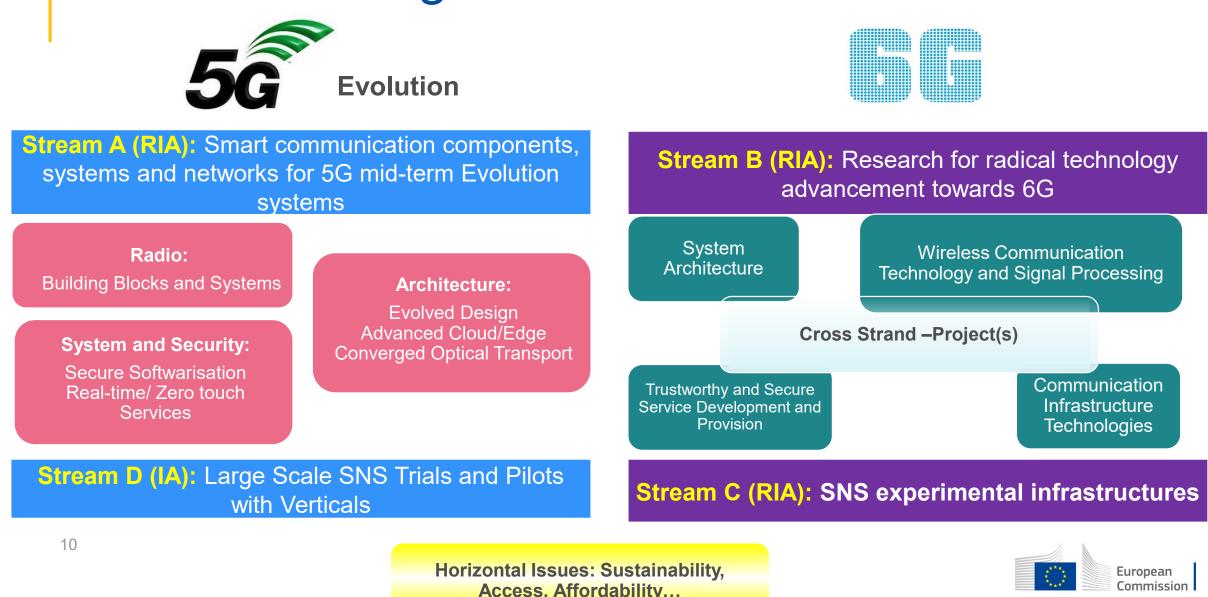
#### Governance

#### **SNS Joint Undertaking**



### SNS Work Programme 2021-2022







# **Open SNS Working Group**

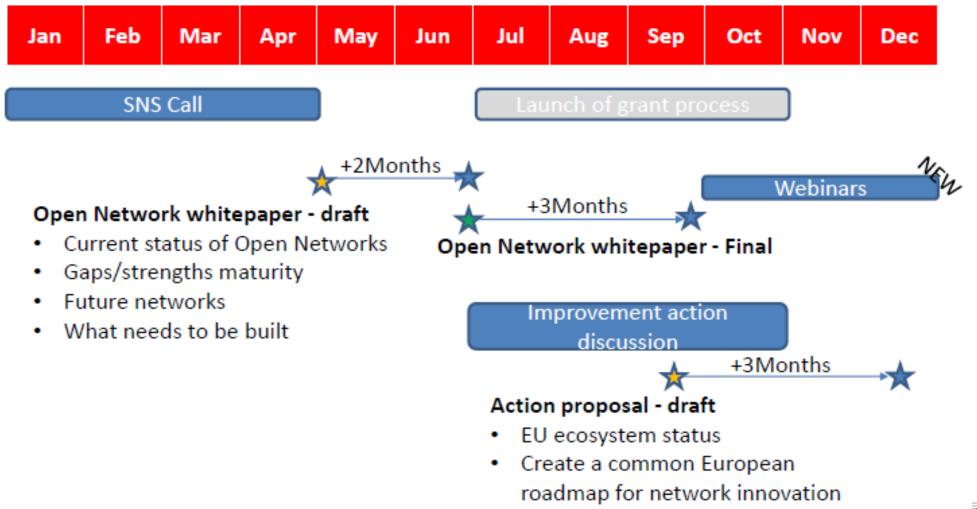
#### **Overall purpose:**

promote and support the evaluation, adoption, deployment, and evolution of open solutions for 5G and beyond 5G/6G networks.

#### **Main Objectives**

- Influence the definition of the technical work programme to evolve the maturity of open solutions.
- Support the evaluation and the adoption of disaggregated solutions in legacy and future networks to enable a true multi-vendor environment.
- Promote a common understanding of standards and architectures and maturity status.
- Promote actions for the formation of a dynamic European Open ecosystem.
- Engage with European Security Framework to assure the Open based networks comply with the security standards defined by EU.

### Open SNS WG: 2022 Time Line







# Thank you!

#### https://digital-strategy.ec.europa.eu/en/policies/5G





European Commission