Software & Standards for Smart Networks & Services Conference

Looking ahead: Is there a role for “open” solutions in R&D?

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Who We Are - What we represent

Strong contributors to EU economy:

- **€ 210 Billion** of European revenues (EU board Members)
- **€ 420 Billion** of European revenues (all EU industry members)
- More than **200 5G Network** deployments in the world.

Focus on:

- **advanced Networking** Tech, systems
- EU industry competitiveness
  - Sustainability
  - Sovereignty.

An industry driven Association of ~400 Members

Committed to Innovation

- Typical R&D investment: 20% of revenues for lead supply companies
- About 40% of Standard Essential Patents from 2G to 5G
- Leading the initiation of new Digital Markets, 5G and 6G for Verticals

Committed to collaborative research

- € 900 millions of private investments in EC 6G Programme
- Partnerships with >130 EU academics and RTOs

What Connectivity and Service platforms represents:

The foundation of the digital economy and society

A crucial infrastructure for security and sovereignty

Dual use, safe and resilient infrastructures

The backbone of digitisation of all EU businesses

A key domain for EU economy

6,7% of EU GDP, Eurostat 2021

Booming public investments from our main competitors

Booming investments for Member States

€ 2 Billion for 6G, e.g.

A high risk, R&D intensive domain

Risk sharing with public policies/partnership

A key technology for EU policies

- EUCCS, IRIS²,
- Sustainability;

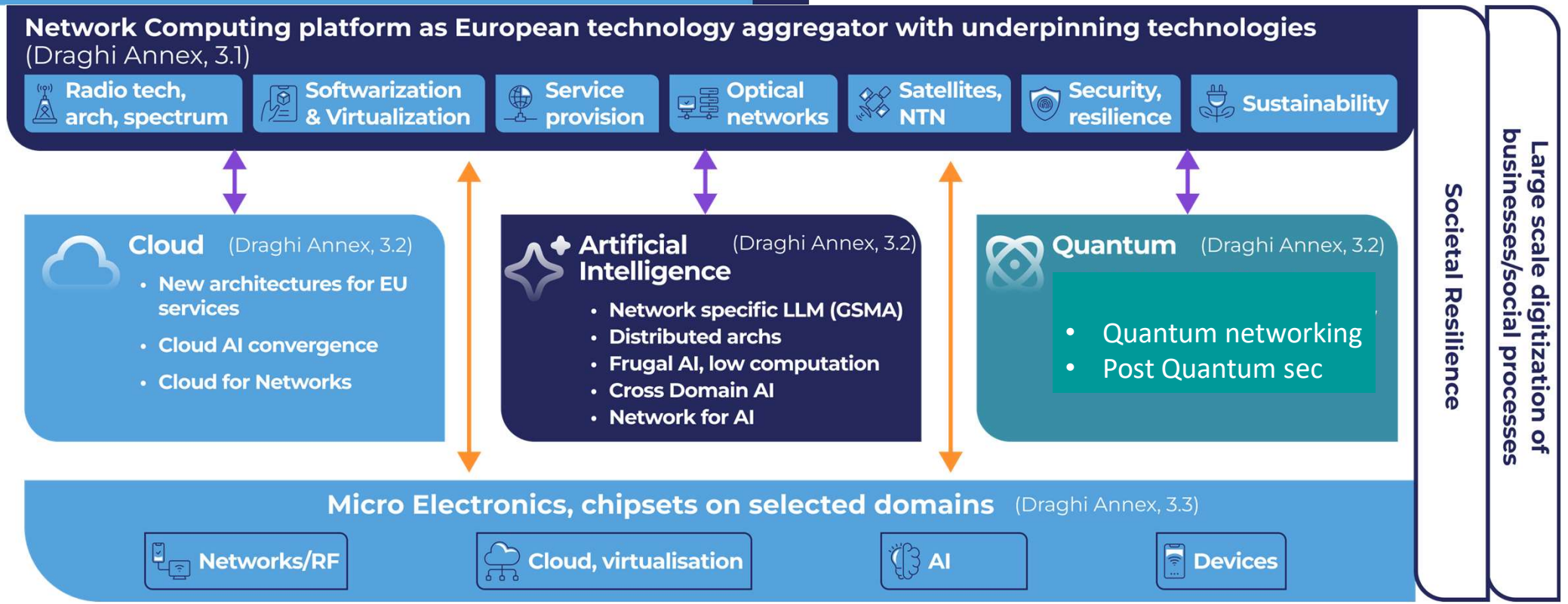
An EU valorisation platform for key technologies

AI, Quantum, HPC, security, chipsets, computing;

The Draghi report : The telecommunication equipment and software sector are also key for the EU's cyber-resilience, security of strategic infrastructures, and protection of citizens' and business data

Our Targets for the next MFF

Adresssing Draghi's report tech challenges:



6G-IA's proposed approach

A Strong Networks and Services initiative to:

- Leverage EU strongholds to develop capabilities in related domains
- Leverage related domains in EUROPE: infrastructure implementations can not be delocalised
- Exploit AI opportunities to develop innovative EU service offers, notably locally;

➔Use Network and Services platforms as an aggregator of digital key technologies, systems and services to minimise EU dependencies at full scale system level

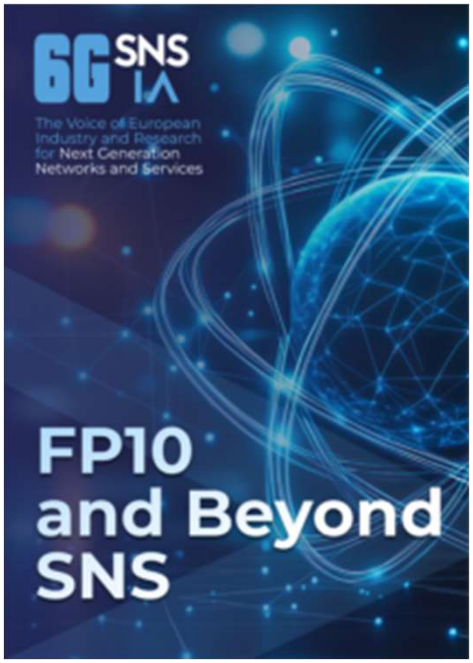
➔Exploit specific EU public policy environments to catalyse take up, e.g., EUCCS

➔Adopt a "Top Down " approach

Need: Integrated Implementation

- **Synergies from R&I to pre-deployment** from the start & at the Progamme level: not all technologies are at the same maturity level.
- Include the entire **life cycle through** a well-defined set of technologies, use cases, and timelines, akin to initiatives in other regions.
- **Include new activities:** defence, transfer of technologies to start ups.
- **Facilitate the execution of cross-cutting activities** (Chips JU, Photonics HPC, Quantum, etc.)
- **Respond to the suggestions from PKH, Draghi, and Heitor reports**

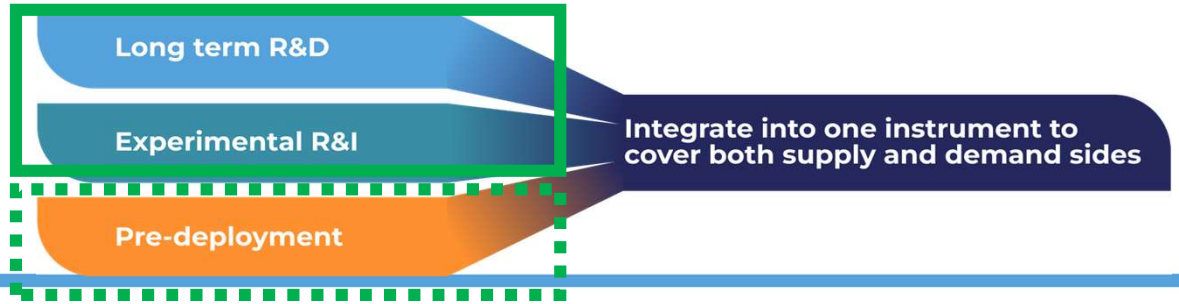
Where is open in this vision



https://6g-ia.eu/plans-papers/

- **Examples/Trends in Technological Areas**:
  - Cloud (latest SNS JU call, CL4 call, IPCEI-CIS) – northbound APIs, edge-hyperscalers interfaces, software solution for telco cloud
  - AI (Latest open call in SNS JU on datasets)

- **Open pan-European experimental platforms**



Some thoughts

- **Open solutions are essential**
  - collaborative R&D that spans more than the lifetime of a single project
  - rapid building up of prototypes, perform early experimentation (learn faster)
  - creating communities of testers and developers

Some thoughts

•Emerging technologies (AI, data formats, APIs, IoT)

- **Open solutions may**:
  - Accelerate standardisation by tuning ideas on shared testable implementations
  - Keep the pace in fast-moving research domains
  - Provide significant insights during pre-regulatory phases
  - Experimental platforms enable adopters and future businesses to acquire practical knowledge rapidly by testing and understanding new technologies in real conditions.

The new era is full of emerging technologies (e.g., AI, data formats, APIs, IoT) that will benefit from open solutions