

## 6G and the Future of Connectivity

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## EU policy priorities

- Commission Work Programme 2025; competitiveness <u>compass</u>: competitiveness, decarbonisation, security
- Europe's strategic autonomy in <u>critical technologies</u>:
   Al, cloud, quantum, semiconductors advanced connectivity
- Tech/ market <u>trends</u>: softwarisation, openness, convergence telco-edge-cloud, AI, ...
- Connectivity backbone of digital economy; but Digital Decade Report shows that EU still lags behind on connectivity goals



## Legislative proposals and programs

EU Digital Networks Act

EU Cloud and Al Development Act

Horizon, DEP, CEF > new MFF

Challenges: sovereignty and supply chains, slow deployment, fragmented markets, lack of investments, skills, socio-eco drivers

## 6G as game changer; R&I challenges

- Artificial intelligence and automation
- Resilience and security, cybersecurity and privacy protection
- Radio interface, spectrum efficiency, new frequencies
- Ubiquitous coverage
- Sustainability
- Openness
- Cloud-Native RAN, softwarisation, Interoperability,...
- → SNS JU achievements in addressing technology, Verticals, International cooperation, standardisation