Regulative challenges on the way to 6G

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• Connectivity of new applications and networks
• Decentralized networks -> edge computing
• „Network of networks“ (public and private)
• Inclusion of satellite-capacity
• Artificial intelligence in the core
❖ Higher data rate, improved access, minimal latency
❖ New area of spectrum > 100 GHz
Timeline of regulation

- **6G**
  - Vision & Tech. Standard
  - Deployment
  - 8 years or shorter

- **5G**
  - Vision & Tech. Standard
  - Deployment
  - 8 years

- **4G**
  - Vision & Tech. Standard
  - Deployment
  - 12 years

- **3G**
  - Tech. Standard
  - Deployment
  - 15 years

Events:
- WRC-23
- [2028]
- WRC-27
- WRC-31

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Worldwide availability

- International frequency allocation
- IMT-footnote or ITU-recommendation

Harmonized conditions

- Regional CEPT & EU decisions

Sufficient capacity

- Technology neutral authorization / licenses

WRC-2027 or WRC-2031

- WRC-preparation
- 6G Roadmap
- RSPG Opinion
- ...

- Auction
- ???
Challenges

- Propagation in Sub-THz
- AI - networks
- Radioservice definitions?
- Review of Radioservice definitions?
- Sustainability?
- New business cases

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Thank you! Vielen Dank! Merci!

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