International Telecommunication Union

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Summary

History of ITU

Objectives & Realizations

A link to 5G





One of the oldest intergovernmental organizations

 Created in 1865, in Paris, at the International Telegraph Convention

 Became a specialized agency of the United Nations in 1947





- Allocates global radio spectrum and satellite orbits
- Develops technical standards

• **Strives** to improve access to ICTs in the world





Divided into 3 sectors:

- **ITU-R** : Radiocommunication
- **ITU-D**: Development
- **ITU-T**: Telecommunication standardization

ITU-R

- **Allocates** bands of the frequency spectrum
- Registers radio frequency assignments and orbital positions
- Eliminates harmful interferences

ITU-D

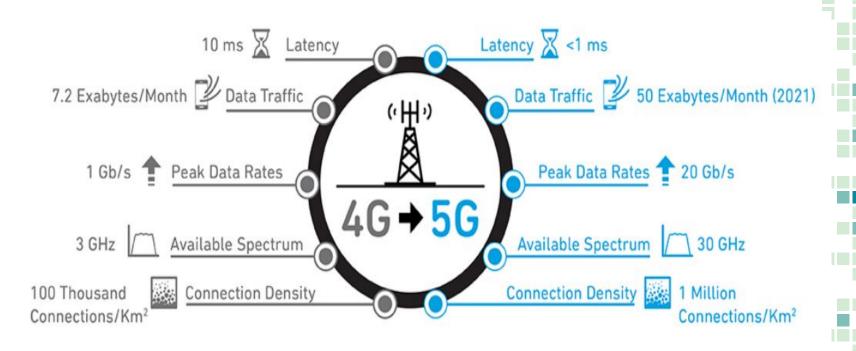
- Encourages international cooperation
- **Fosters** the development of ICT networks
- Enhances confidence, security, environmental protection

ITU-T

- **Assembles** experts from around the world
- **Develops** ITU-T Recommendations
- Helps developing countries



ITU and 5G

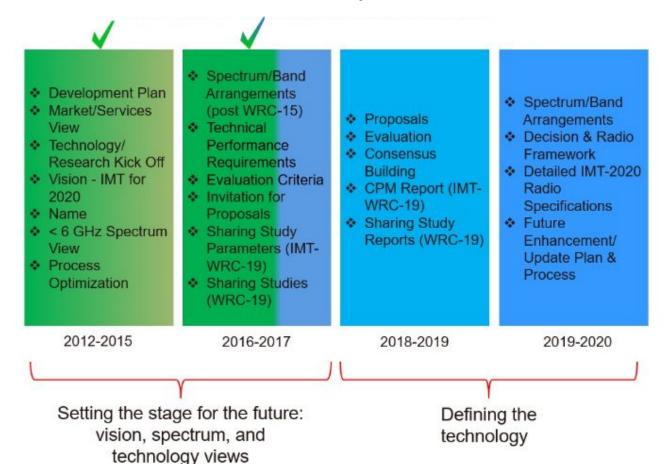




ITU plays a key role in the development and adoption of the global regulations and standards.



IMT for 2020 and beyond





Socio economic implications of 5G



Problems

- High-levels of investment needed to deploy 5G networks
- Danger of increasing digital divide
- 5G networks will generate electromagnetic fields.



Solutions

- Grants, or PPPs to stimulate investment in 5G networks.
- Use of sub-1 GHz frequency spectrum
- Collaboration with WHO to provide guidance and national regulations



ITU Telecom World Sept 2019, Budapest, Hungary



