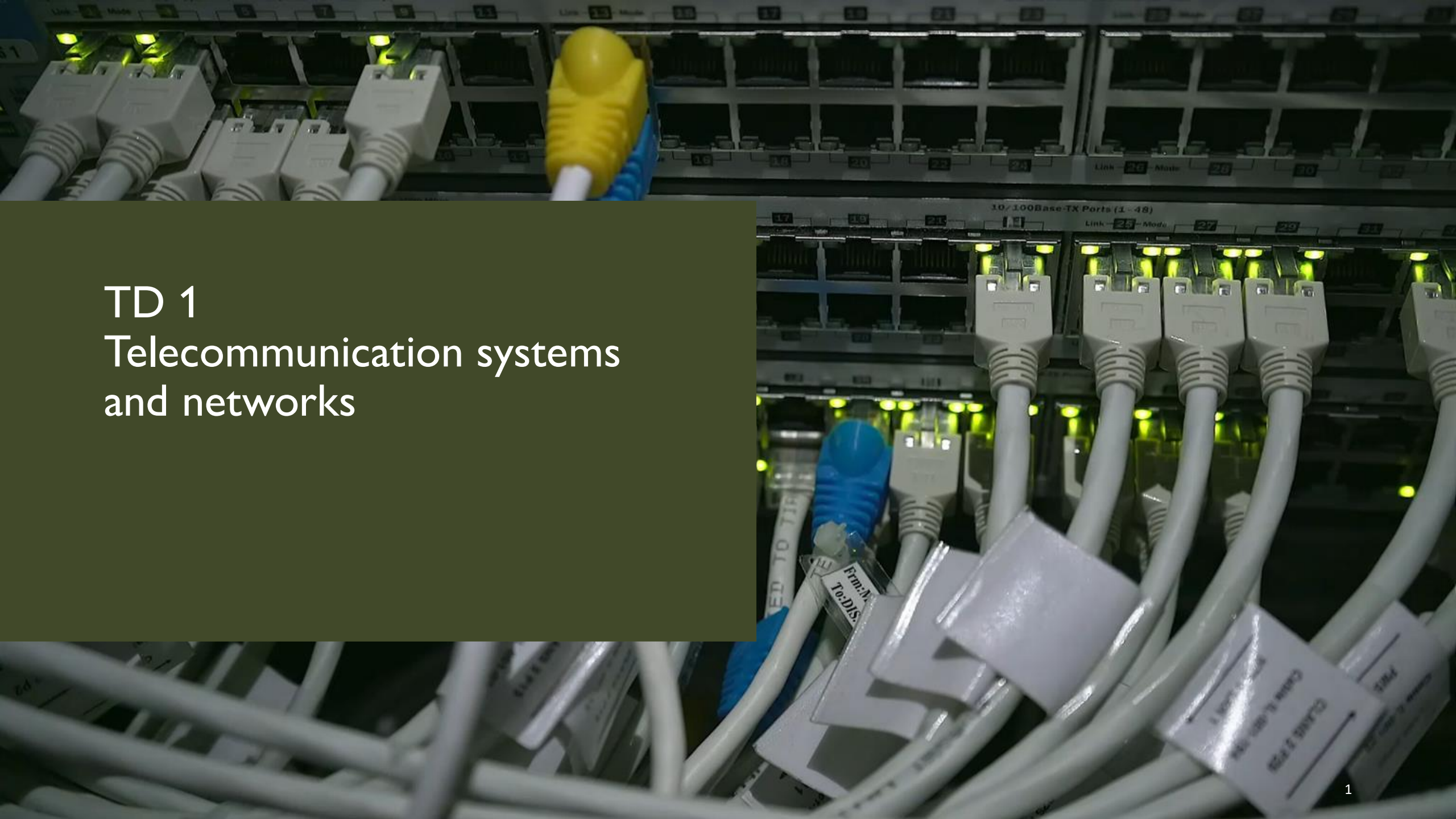

TD 1
Telecommunication systems and networks

Research & Presentation:

- Select one of the standardization bodies mentioned in the lecture and research its history, key contributions, and current projects. You should then present their findings to the class.

Group Discussion: Transmission Media Exploration

- Students are divided into groups and assigned with transmission medium (e.g., twisted pair, optical fiber). Groups should discuss the advantages, disadvantages, and ideal use-cases for their assigned medium and share with the class.

Questions:

- What is the primary purpose of standardization bodies in telecommunications?
- How does an optical fiber transmit data?
- Explain the difference between Single-Mode and Multi-Mode fibers.
- What are the primary components of a data communication system?
- Why might a business choose twisted pair cabling over optical fiber for its local network?