

LIST OF TOPICS (this list is not closed)

#### ACCESS NETWORKS

- New opportunities with FOAN technologies (like XGPON, XSGPON, 10GEPON, NGPON2, UDWDMPON, passive optical LANs (POLANs), Coloured PON FTTx, EP2P, AE, 100G PON, 400G PON, 1T PON);
- Hybrid networks – fiber, DSL and Coax; Integration of different networks: Fiber, FSO, Wireless; New architectures and typologies;
- QoS, QoE, Latency and other characteristics in the field of access network

#### Business cases and regulation impact

- Business cases, cost-effective speed upgrades, solution and the possible upgrade paths; flexible network topology and legacy system compatibility; Impact of regulation on development of access networks;

#### xPON interoperability:

- Test setup, trial experience, OLT to ONT communication, OpenOMCI, Multivendor ONU Connect, PLOAM interaction, Wavelength Mobility, laser switching time

#### Back haul

- Mobile back haul and front haul; Fiber optics in 5G network; Cloud RAN

#### Data Center Network technologies

- Data centers: fiber links to and inside of data center;

#### SENSORS

- Fiber Optics Sensors, sensors in broadband networks, IoT sensors and actuators, sensors in home/office area; Free Space Optics sensors

#### PHOTONICS INTEGRATED CIRCUITS and MICROWAVE PHOTONICS IN ACCESS NETWORKS

- The cost and energy effective systems; GaAs/InP, LiNBO3, SiN, SOI, The hybrid InP/SOI; PIC for PON; A high-capacity radio system based on micro-wave and millimeter-wave frequency bands;

#### POWER over FIBER

- Short and long distance powering, PoF applications, double cloud fiber, powering over SMF,