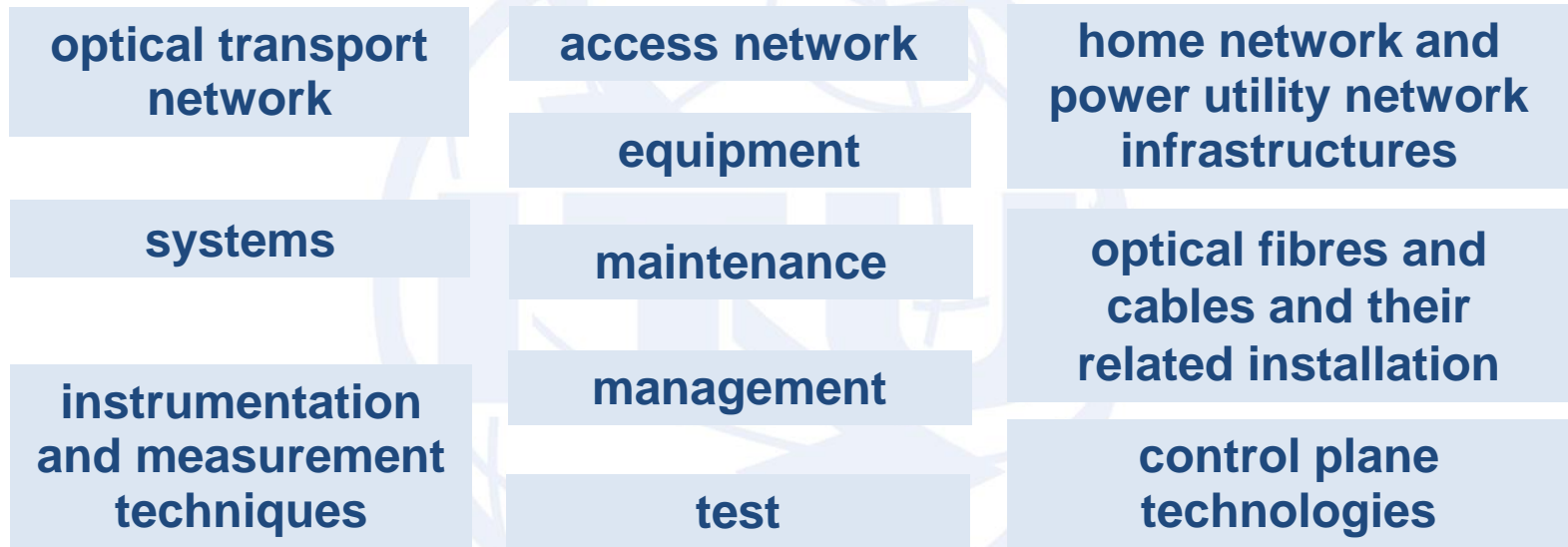


**Session 2:** Legislative, normative and regulatory environment required to enable implementation and development of 4G/5G networks and innovative services

ITU/TSB  
Hiroshi OTA

# ITU-T SG15 - mandate

SG15 is responsible for the development of **standards** on:



to enable the evolution toward intelligent transport networks, including the support of smart-grid applications.

# WP1 – Broadband Access

**G.FAST**

Broadband access  
up to 2 Gbps

**G.mgfast**

Next generation  
G.fast targeting 5-10 Gbps

**DTA**

G.fast dynamic time  
assignment (DTA)  
downstream/upstream bit-rates  
responsive to customer traffic



Continue collaboration with



**G.RoF**

Radio over fiber  
for mobile fronthaul



**NG-PON2**

Next generation of converged  
fiber access going to higher speeds



Visible Light  
Communication  
for home networking



Powerline  
communication (PLC)  
for smart grid and  
home networking

**G.Hn**

G.hn home networking over  
indoor phone, power,  
and coax wires >2 Gbps

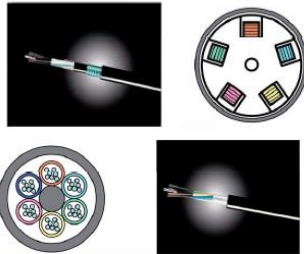
# WP2 – Optical Technologies



**Optical Network Infrastructure**



**Disaster Management issues**



**Optical Fibre Technologies and Cables for easy and environmentally friendly outside plants**

**Multichannel bi-directional DWDM applications targeted at lower cost optical solutions for applications including mobile fronthaul and backhaul**



**100G and future higher-rate coherent multi-vendor interoperable interfaces**

**200G  
400G**



**Short-reach (OTN client) 200G and 400G interfaces reusing components developed for Ethernet applications**

# WP3 – Optical Transport Networks

**5G**

**Transport and synchronization supporting 5G mobile fronthaul and backhaul**

**Optical Transport Networks**

**Synchronization of packet networks and future OTN networks, e.g., beyond 100G**



**Architecture and other Transport SDN Aspects**



**Network survivability (protection and restoration)**

**BEYOND 100G**

**New “B100G” OTN interfaces, including the use of coherent G.698.2 interfaces under development**



**Management aspects of control and transport planes**



**Equipment & management specifications for OTN, Ethernet and MPLS-TP**



**Core Information model enhancement for management of synchronization and optical media**

# ITU-T Study Group 15 meetings

- Geneva, 1-12 July 2019
- Geneva, 27 January – 7 February 2020 (tentative)
- Geneva, 7-18 September 2020 (tentative)

