



The Standards People

Workshop : F5G and Evolution towards F6G

Organiser(s)

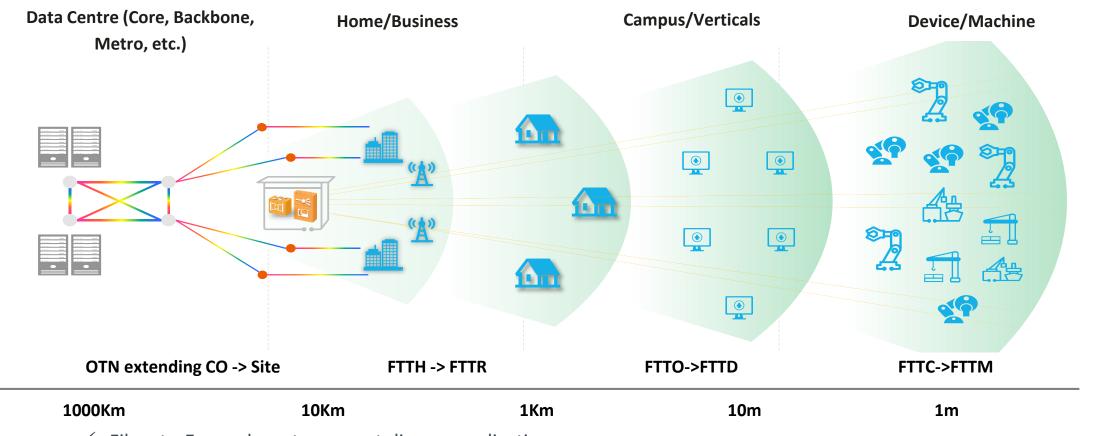
Philippe Chanclou, Orange Labs, France Xiang Liu, Huawei Technologies, China

Time & Location

18.09.2022, 09:00 – 12:30, Room Sydney

ETSI

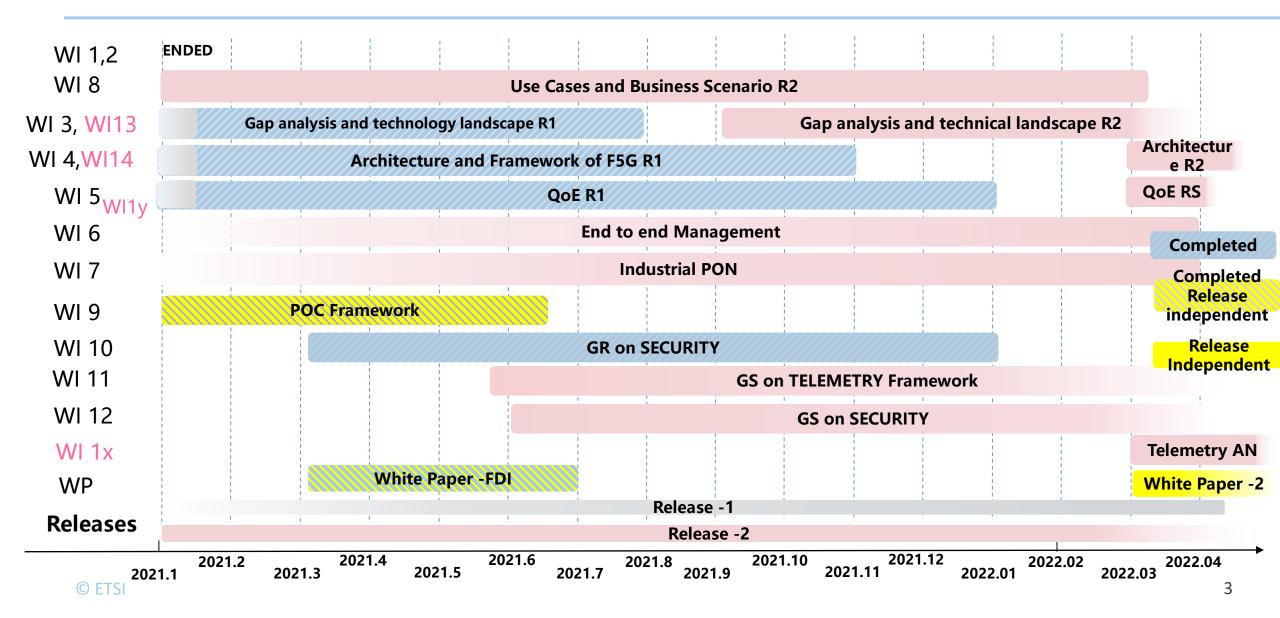
F5G Vision for Fiber to Everywhere & Everything



- ✓ Fiber-to-Everywhere to support diverse applications
- ✓ Extending to more end users: 2Home, 2Room, 2Business, 2Comsumer, 2Mobile, 2Device, 2Machine, etc.
- ✓ Reaching closer to end users everywhere: Km -> 100m -> 10m -> 1m
- ✓ Increasing the number of connections: x3 (Rooms), x10 (Desks), x30 (Machines), x100 (Smart cities)

Key Deliverables





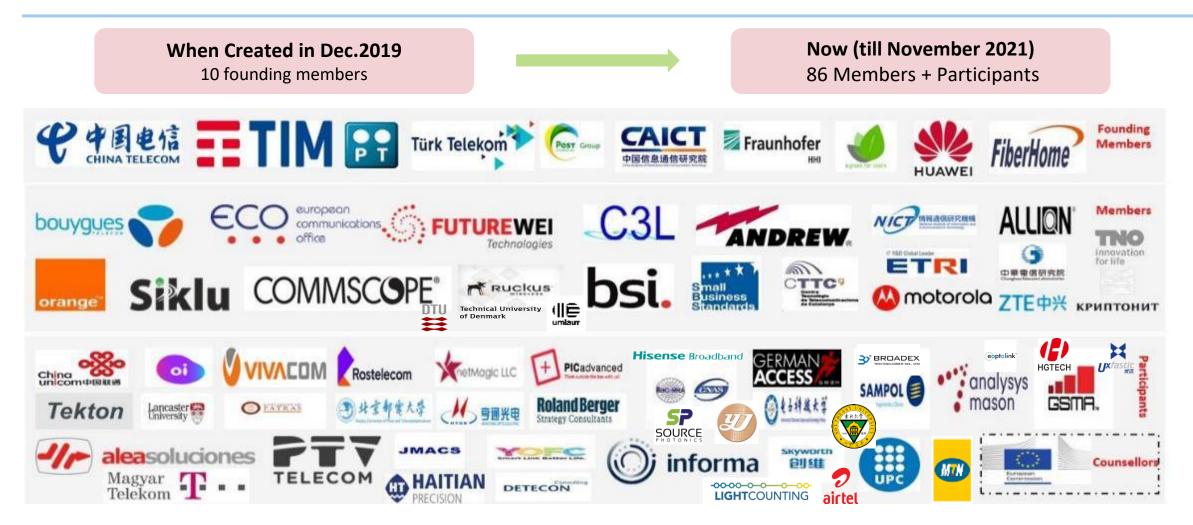


ISG F5G Progresses Made in the 1st Phase (2020~2021)



Members/Participants









Programme & Speakers 1/2:

Session1: F5G Applications 9h00 – 10h30

- 1. F5G Update: Second Release of Use Cases by the ETSI, Luca Pesando, Chair of ETSI ISG-F5G, Telecom Italia, Italy
- 2. F5G Use Cases for Industrial Automation, Johannes Fischer, Fraunhofer HHI, Germany
- 3. Real-Time Demonstration of Fiber-to-the-Room for >1Gb/s Home Networking, Gaël Simon & Fabienne Saliou, Orange, France
- 4. Optical network evolution oriented at computing force network and metaverse, Han Li, China Mobile, China
- 5. Evolution of the fiber infrastructure for fixed networks, Adrian Amezcua, Prysmian, France
- 6. Dynamic Satellite Optical Communication Networks, **Yongli Zhao**, Beijing University of Posts and Telecommunications, China

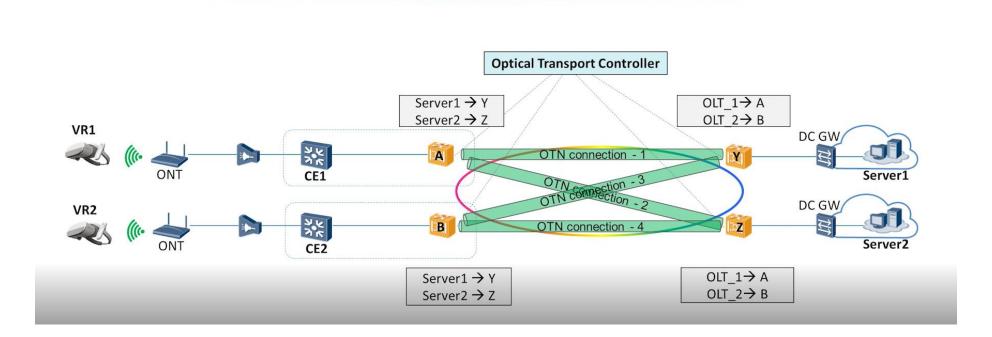
Panel Discussion

Coffee break: 10h30 – 11h00

F5G PoC Demo: Flexible OTN connection to multiple clouds



PoC v2 Demo Content







Programme & Speakers 2/2:

Session2: F5G Opportunities 11h00 - 12h30

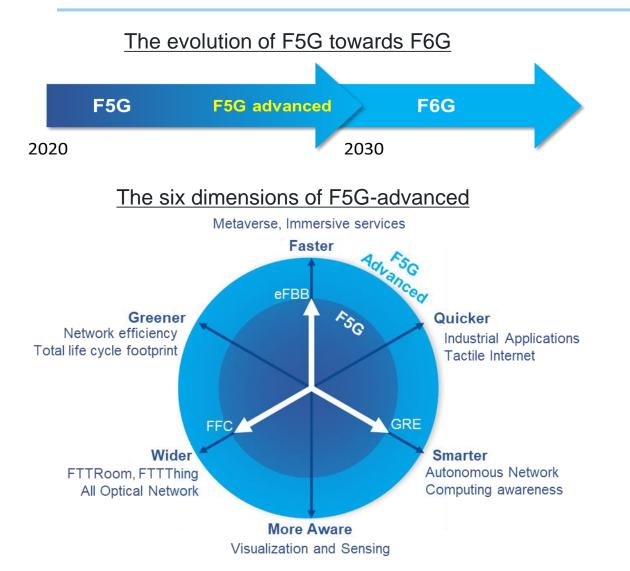
- 1. Innovative Coherent Point-to-Multipoint Technologies for Aggregation Networks, David Welch, Infinera, USA
- 2. Opportunities and Challenges in the Evolution beyond F5G, Ed Harstead, Nokia, USA
- 3. Update on the Innovative Optical and Wireless Network (IOWN) Initiative For Fixed Networks, Jun-ichi Kani, NTT, Japan
- 4. F5G Advanced & Beyond: Vision, Mission and Pace, Frank Effenberger, Vice Chair of ETSI ISG-F5G, Futurewei, USA
- 5. F6G: Vision, Key Enabling Technologies and Research Topics, Jean-Luc Beylat, Nokia, France

Panel Discussion

Closing (12h30)

ETSI White Paper on "F5G Advanced and Beyond"





Freely downloadable at:

https://www.etsi.org/images/files/ETSIWhitePapers/ ETSI-WP-50-F5G-Advanced-and-Beyond.pdf



Exciting Technical Challenges in the F5G-Advanced Era



INFORMATION



- Developing optical technologies and novel innovations that improve communication bandwidth, integrity and access at scalable levels.
- Enhancing connectivity by finding more efficient, speedy and reliable connectivity between devices, communications infrastructure and the cloud.
- Managing the data traffic and coordination required by the smart cities of the future.
- > Balancing the need for resilience and performance with cost and energy efficiency in communication infrastructure.
- Exploring new optical sensing technologies to improve various parameter monitoring capabilities.
- > Other proposals exploring innovative, groundbreaking research or technology developments are welcome and encouraged...

Let's work together to contribute to modern humanity and global economy in the F5G-advanced era!