# Verizon's Perspectives on Industry Engagement in ITU-T

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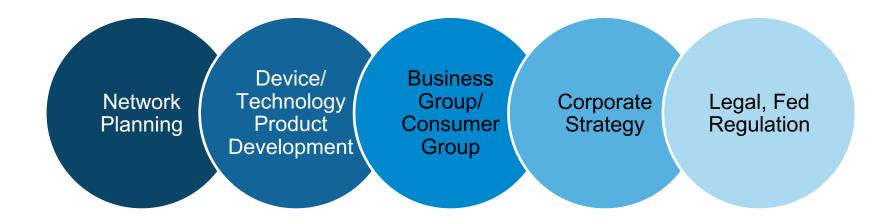


# **Outline**

- Technology standards planning in Verizon
- Success stories in SG15
- Project initiation process in other SDOs
- Summary



# Five dimension collaboration in Verizon



Serving customers, employees, shareholders, and society



**Technology standards planning** 

# **Verizon participation**

## Wireline, Transport:

ITU-T, FSAN, IEEE 802.3, etc.

### Wireless:

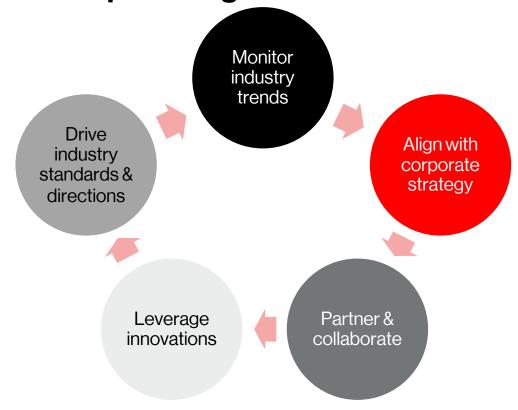
ITU-R, 3GPP, O-RAN, GSMA, etc.

### **Verticals:**

Automotive, Industrial, Video media, etc.

### Regional:

ATIS, ETSI, etc.





# ITU-T is the only SDO guiding the development of global E2E standards essential to telecom industry.



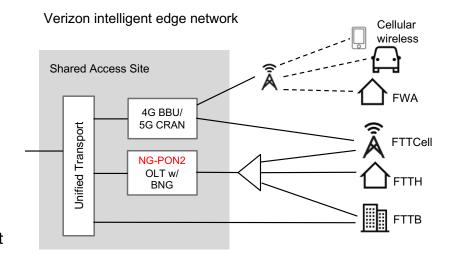
# Many success stories in SG15

# NG-PON2 standards (G.989.x) in Q2/15

- 4x10 Gb/s Passive Optical Networks approved in 2015
- Technology foundation for Verizon FiOS service
- Enables Verizon iEN architecture

# Distributed fiber optic sensing (G.dfos) in Q6/15

- Optical interface specification for DFOS in terrestrial optical transmission systems
- For network reliability and operational efficiency improvement – detecting fiber cut before it happens
- Project initiated in Dec 2023 SG15 plenary with support from 7 global operators and 5 vendors





# Consideration of project initiation process

**OBSERVATION**: Many Study Groups and Questions receive significant number of regional contributions, resulting in Recommendations less suitable for global markets.

### **PROJECT INITIATION PROCESS in other SDOs:**

### 3GPP:

• "Each proposed new Work Item shall be supported by at least four Individual Members...The supporting Individual Members are expected to contribute to and progress the new work item throughout the drafting phases."

### **IEEE 802:**

- PAR (Project Authorization Request) defines the scope, purpose, and contact points for the new project
- CSD (Criteria for Standards Development) includes project process requirements and five criteria

### **Metro Ethernet Forum:**

• Support from at least four contributors incl. two service providers



# Behind the two SG15 success stories...

# NG-PON2 standards (G.989.x) in Q2/15

- Global Tier 1 network operators (Asia, NAM, Europe) in FSAN collaborated to provide consolidated and concrete requirements to Q2/15
- Operators and vendors jointly contributed to the development of Recommendations

# Distributed fiber optic sensing (G.dfos) in Q6/15

- Operators have been researching the technology and conducting field trials for many years
- Verizon and NEC published the first field trial results in an OFC 2019 Post-deadline Paper
- G.dfos project initiated by Verizon and 6 other global Tier 1 operators as well as 5 vendors

**Common Theme:** Concrete requirements from Tier 1 operators across multiple regions

**ITU-T** could consider a process requiring clear requirements from operators and support from multiple regions before project initiation.



# **Summary**

- ITU-T is the only global SDO guiding the development of E2E standards essential to the telecom industry many success stories
- Verizon network deployments and services enabled by ITU-T standards
- Rigorous project initiation process with concrete operators' requirements and multi-regional support would enhance the value of ITU-T and benefit the industry
- Verizon supports ITU-T's core mission to develop international ICT standards



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