

Fujitsu Network technology for IOWN connected AI community

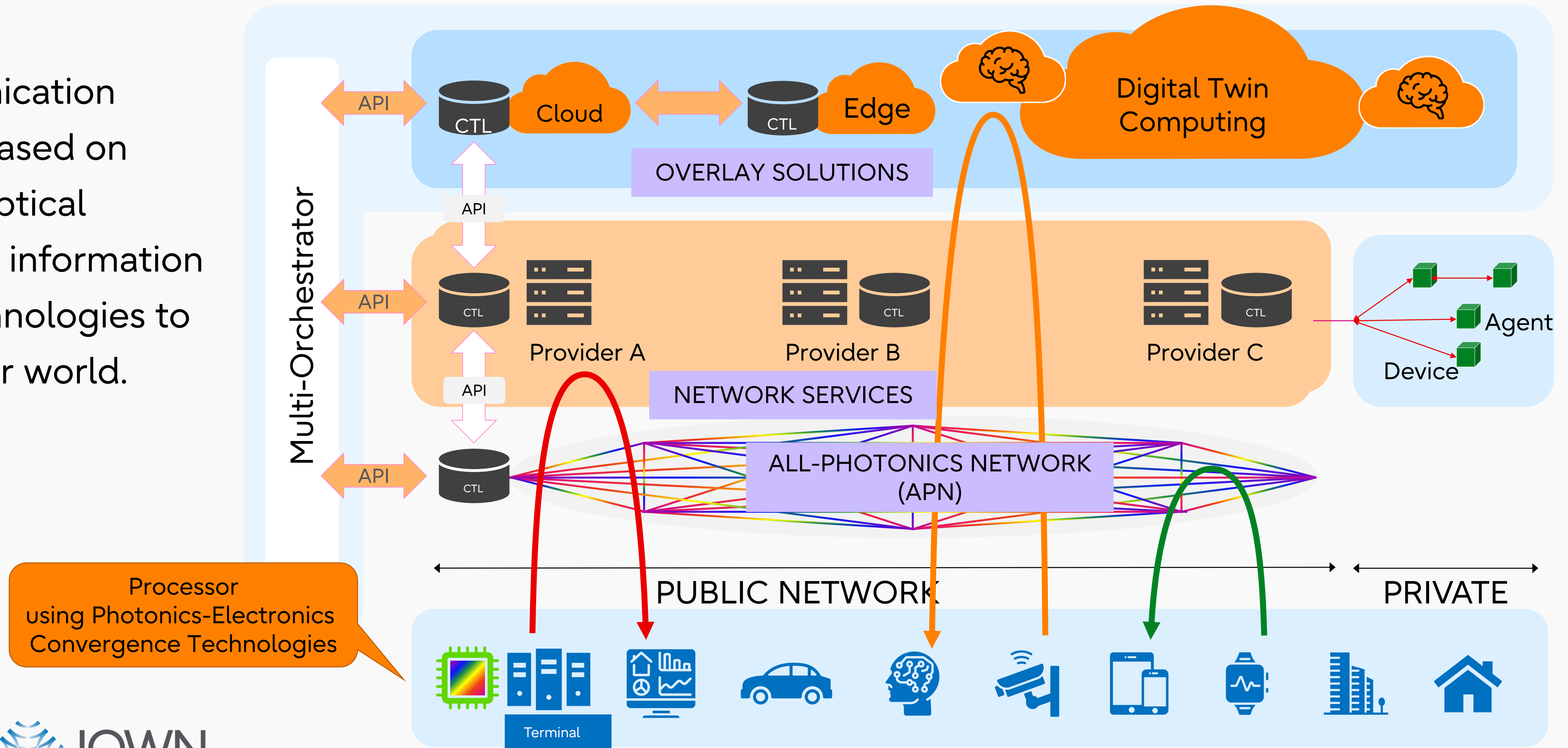
Next-generation Communications and
Infrastructure Technology



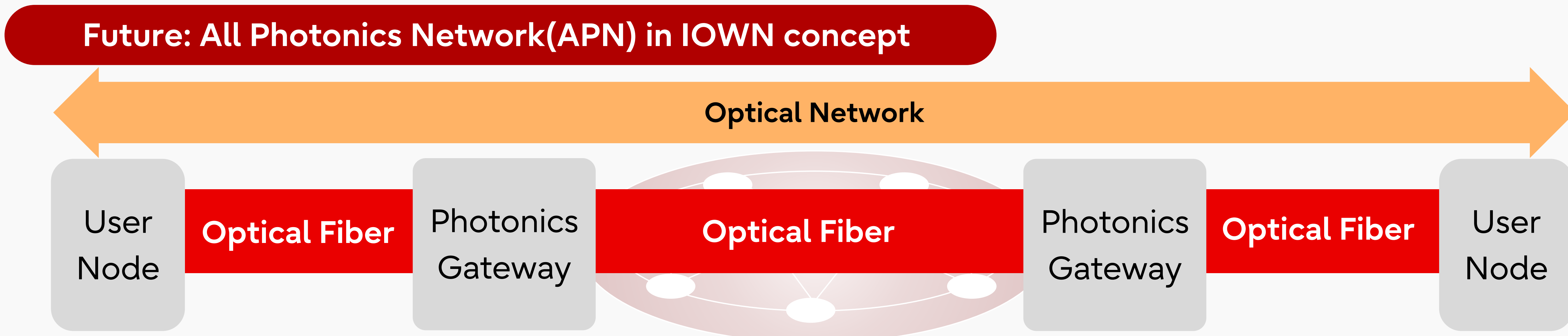
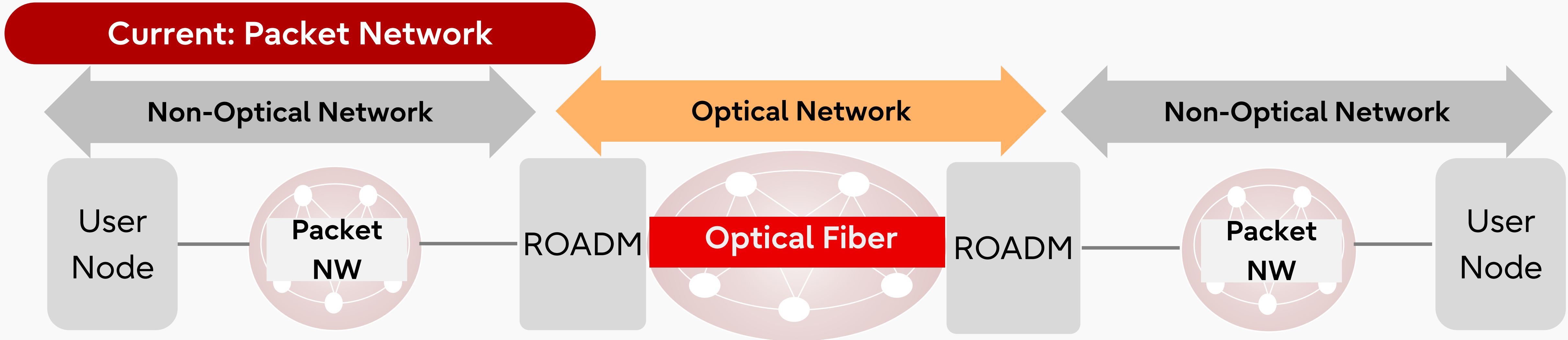
What's IOWN?

Innovative Optical and Wireless Network (IOWN)

Future communication infrastructure based on leading-edge optical technology and information processing technologies to realize a smarter world.



Future Image of All Photonic Network in IOWN concept



Fujitsu's 5 Key Technologies and IOWN Global Forum Technology Areas



Fujitsu's 5 Key Technologies



Computing

Supercomputer
HPC Quantum

HPC : High Performance Computing



Network

Cloud-native network
Photonics PEC

PEC: Photonics-Electronics Convergence



AI

Explainable AI
Trustworthy AI
Human-sensing



Data & Security

Blockchain
Data trust
Digital identity



Converging Technologies

Cutting-edge digital technology
X
Knowledge of humanities / social science

Data Centric Infrastructure

- DCI functional architecture
- Acceleration of data transfer

Open All Photonic Network

- Open APN architecture

Mobile Network using IOWN

- Use of APN and DCI in mobile networks

Fiber Sensing

- Incorporation of fiber optic sensing equipment into Open APN

IOWN Security

- Information security on APN/DCI
- Post quantum computing security

Digital Twin Framework

- Digital twin in use cases of IOWN Global Forum



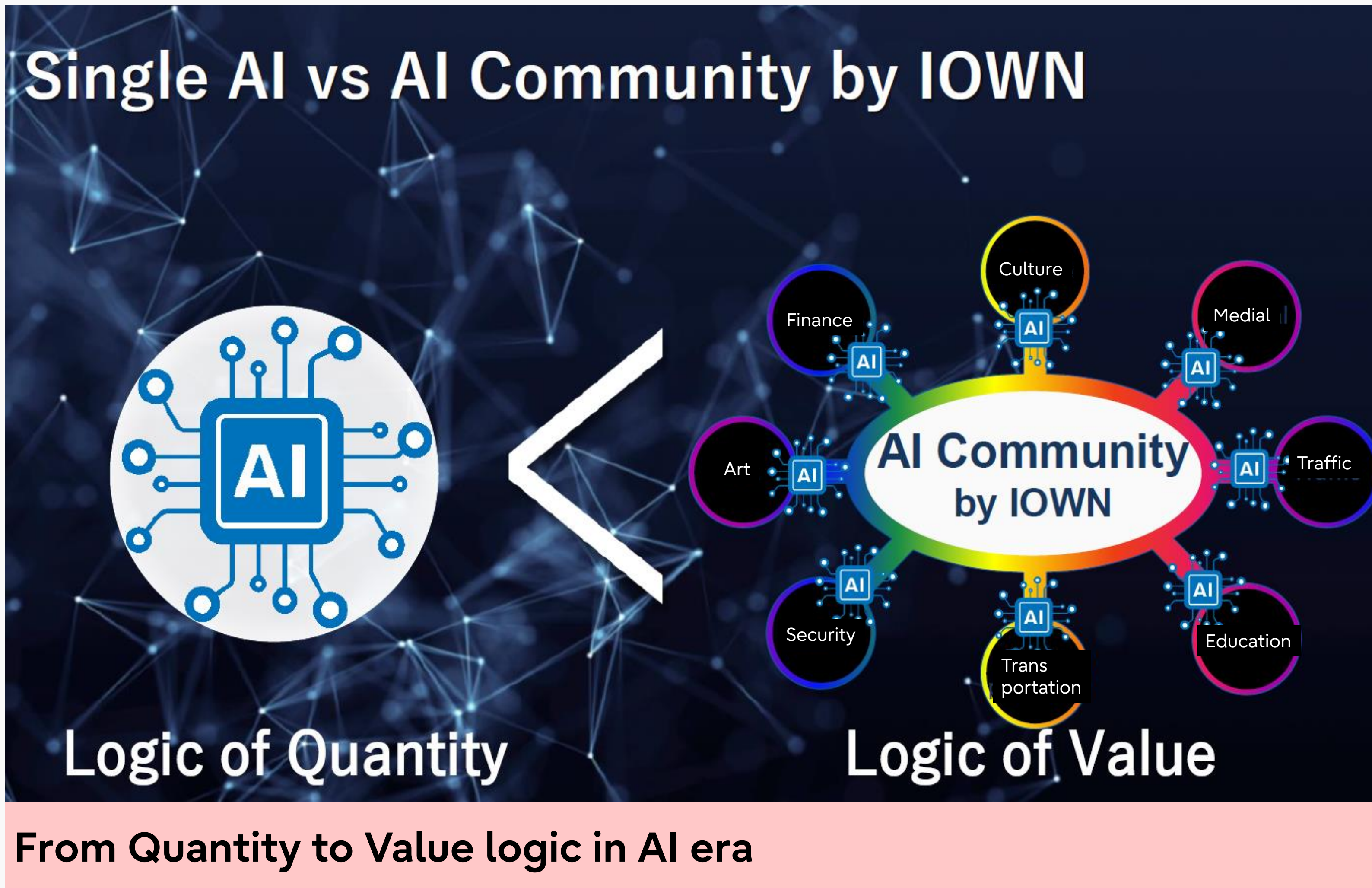
IOWN Global Forum's Technology Area

Our network vision is focused on three main areas;

1. **Open Network**
 2. **Disaggregation**
 3. **Intelligent Networks and Green Technologies**
- Open Network and Disaggregation cover APN, Mobile base station (open RAN), Open Management systems, and Open Transport.
 - Network Visualization, Automation & Optimization with AI/Machine Learning are the main components of Intelligent Network, while Green Technologies include Sub-terahertz, Photoelectronic Fusion, and liquid-cooling Technology.

IOWN connected AI community

Latest focus area, Artificial Intelligence



IOWN connected AI community

Latest focus area, Artificial Intelligence



IOWN connects Real World with AI Community/Digital Twin

Fujitsu is planning to support AI Community by our network technology.

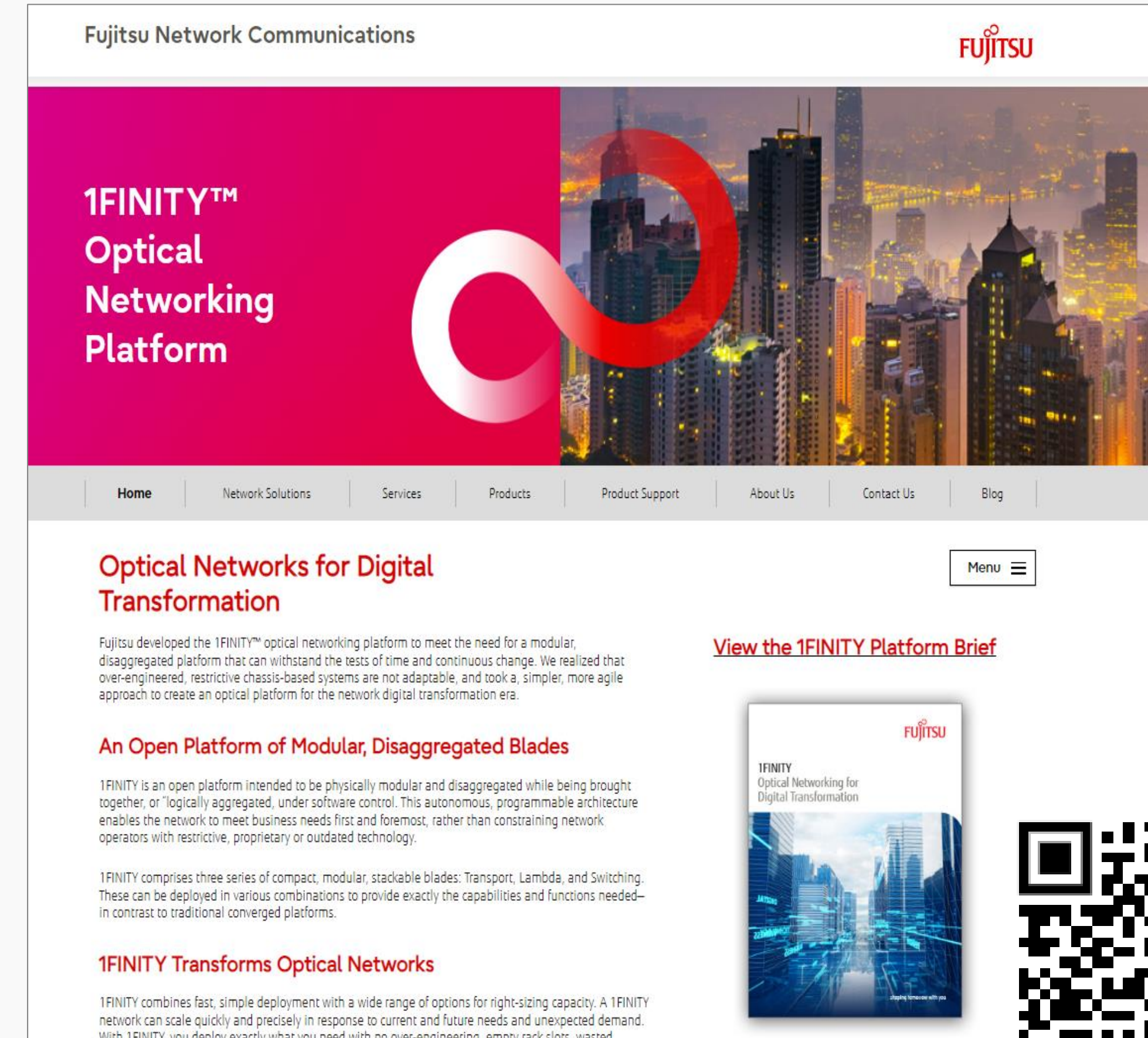
For More Details



Fujitsu IOWN Global Forum Web Site



Fujitsu 1FINITY™ Optical Networking Platform



Thank you

