

# Virtual Optical Access

to Support 6G Backbones with Next-generation Optical Technology

## Vision of Optical Access Network after 2030

- **Flexible Optical Access Technology**

- Optimal control according to the required quantity
- PtP/PtMP mode switching
- Rate switching (25Gbps/100Gbps/400Gbps)
- Variable wavelength

- **OSS-based slice allocation Technology**

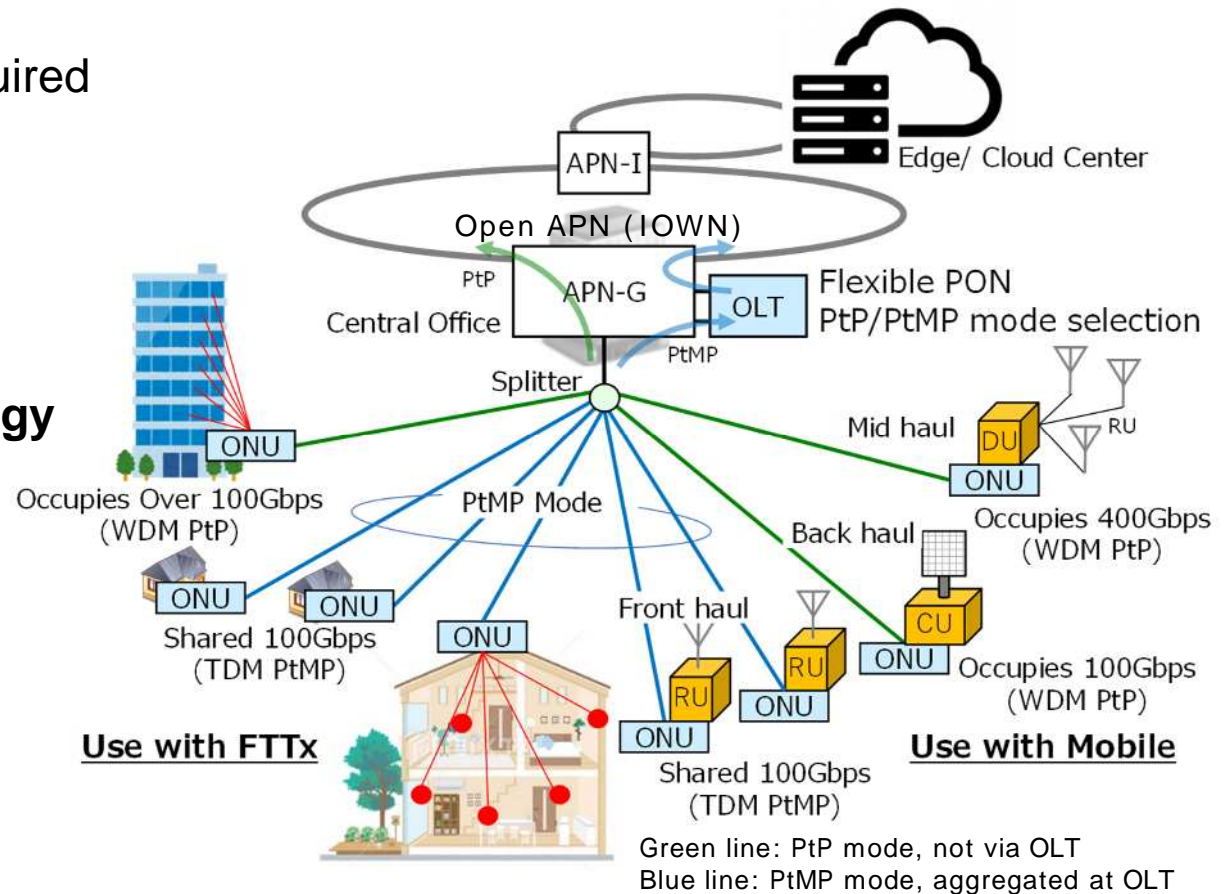
- Management integration through virtualization/ abstraction
- Share of logical network functions Providing slices (G.sup.74)

- **Multi-DBA Technology**

- DBA control for each slices is realized
- High quality logical network

- **AI resource prediction Technology**

- Optimization of network resources by predicting user conditions (mobility, traffic, etc.)



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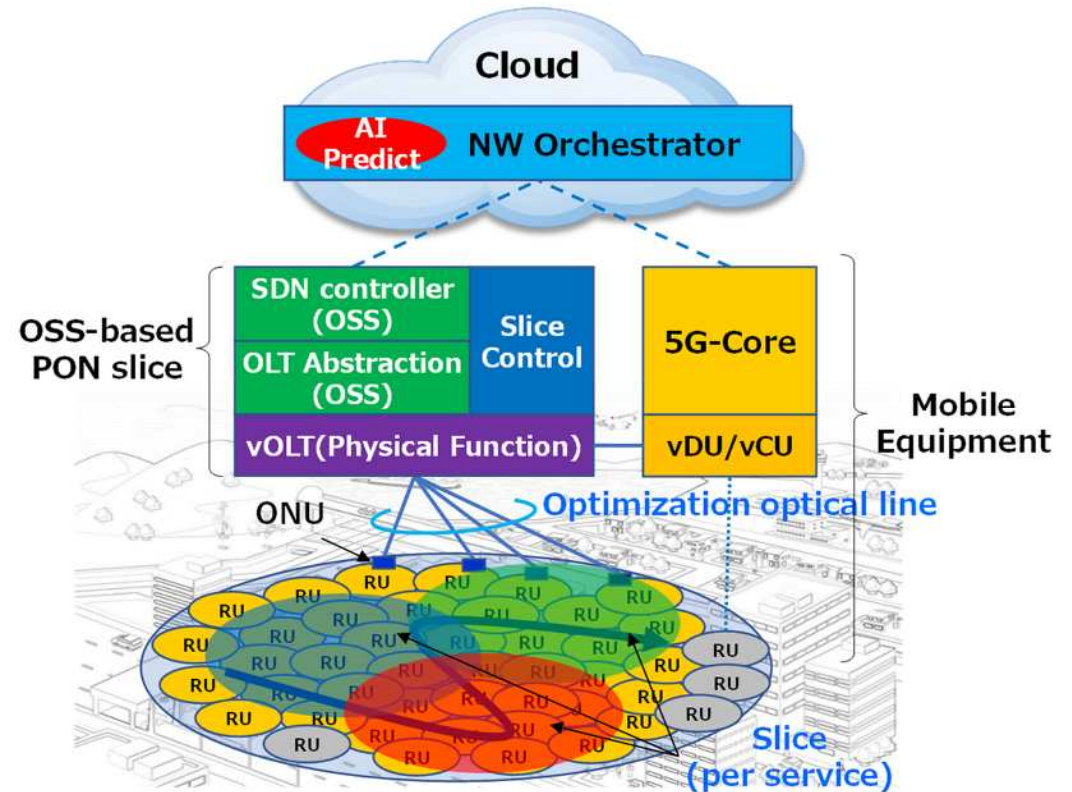
## Open-Source Software based PON Slicing

- **Mobile system with virtual PON (slice)**

In the vast number of base station operations in 5G/6G, AI predicts user conditions and efficiently operates the resources required for mobile base stations and optical transmission equipment to achieve comfort and low power consumption.

- **OSS-based slice allocation Technology**

Advanced IoT services (automatic driving control, remote control of factories, etc.) can be provided.



**Low power consumption Optical access network**