

New Changes in Cloud Era, New Opportunities in Optical Network

Gigabit Everywhere



- Naked-eye 3D: Up to 10Gbps
- End User Access:100M->1000M->10G

Digital Transformation



- User-DC: More enterprises, minute-level TTM
- DC-DC: More clouds, xTb-level E to W traffic

Guaranteed Experience



- PL 0.1% → training efficiency 50% →
- DC dual-active, >99.99%, RTT < 1ms

Bandwidth: 30% CAGR 🕈

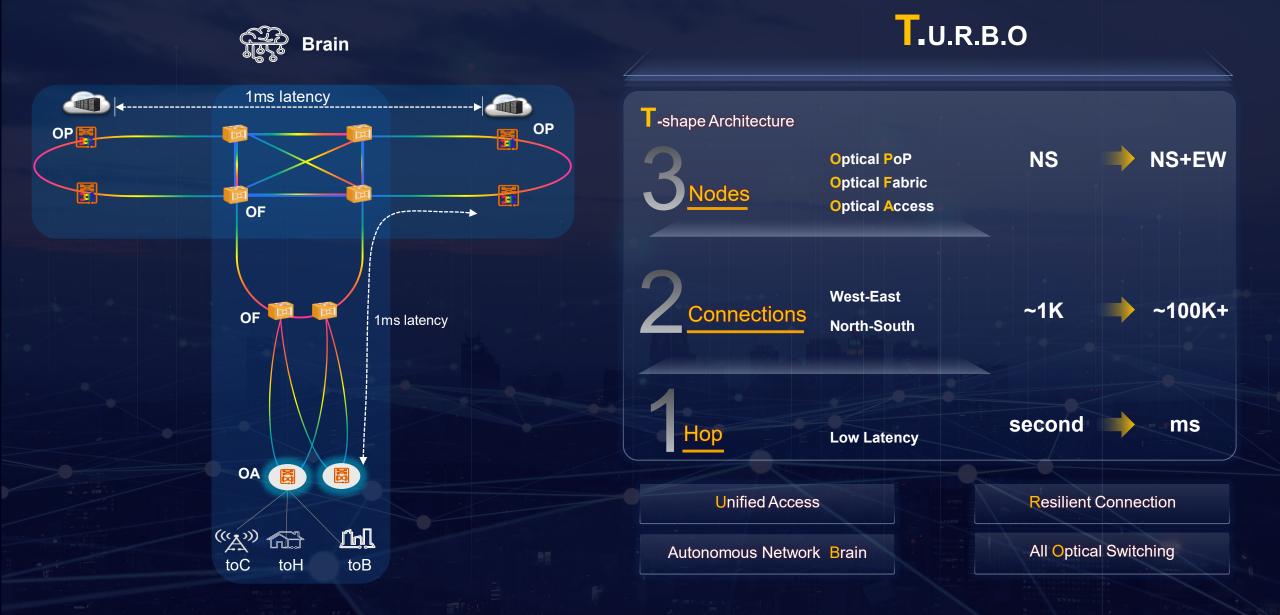
Flow Topology: S/N -> S/N + E/W

Low latency: Min to 1ms

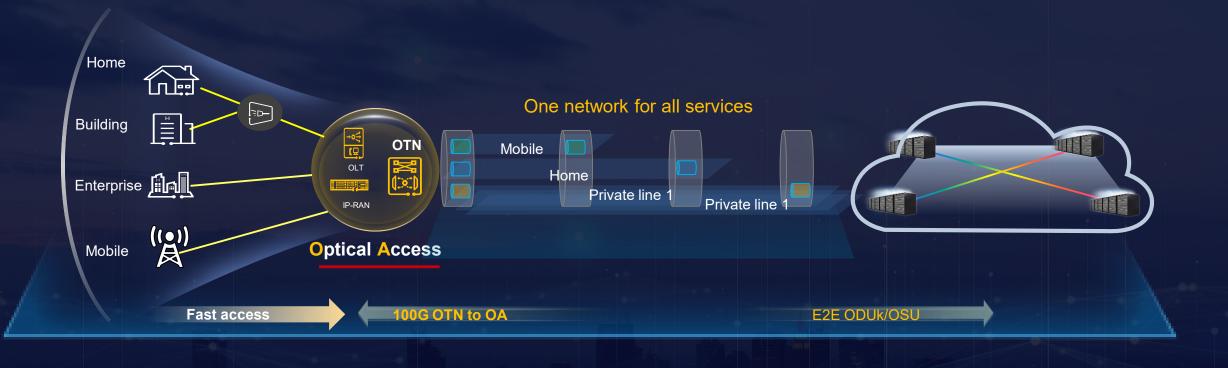
Value of All-optical Network



T.U.R.B.O, The All-optical Target Network in Cloud Era



Unified Access: Simplified & Optimal TCO FMEC Network



Simplified Network, 3→1

- All services in 1, FMEC
- Multiple networks → one network for all

Capacity Upgrade, 10G→100G

- 100G coherent to OA: capacity 10X
- Long-term evolution with 400G to OA

Fast TTM, Weeks → Days

- OA close to User (OLT/CSG/ASG)
- OA close to Enterprises

Resilient Connection, Guaranteed Experience for NaaS



Connection on-Demand

- Lambda: 100G~800G, second-level autocommissioning
- OSU: 10M~100G, 10K/100G connections



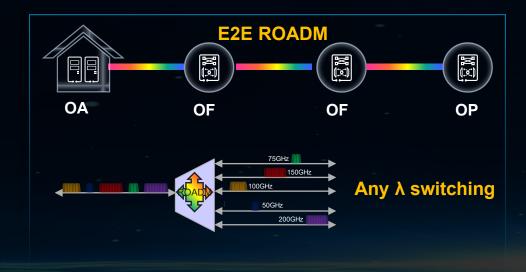


Quality on-Demand

- Availability 99% ~ 99.999%
- Latency 1ms ~ 1s

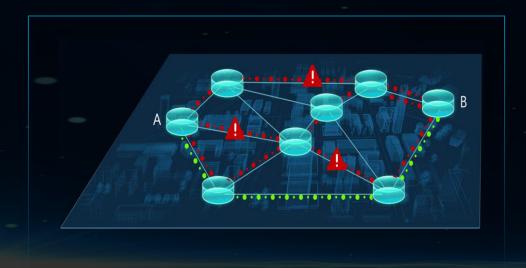
All Optical Switching, Building an Efficient and Reliable Foundation

All Flexgrid-ROADM



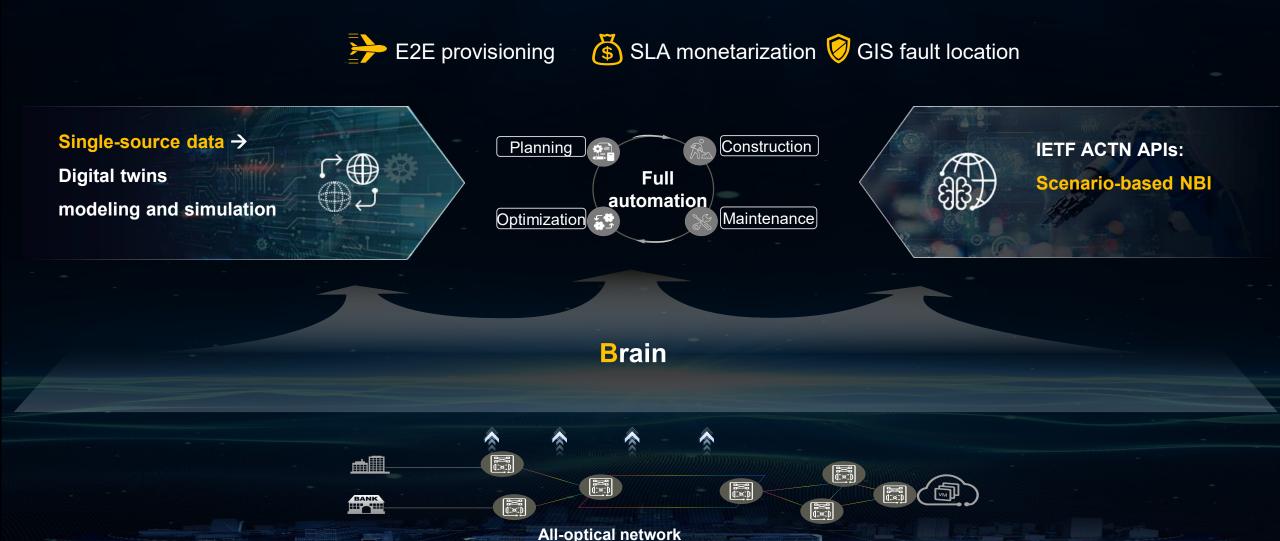
- Any λ to any site, 0 Blocking
- 100G/200G → 400G/800G/1.2T+

Automatic Optical Rerouting



- Restoration Time: Seconds → ms level
- Restoration SLA: Best Effort → Deterministic

Autonomous Network Brain: Full Automation & Agile Monetization



Towards "T.U.R.B.O" All-optical Target Network





T.U.R.B.O All-optical Target Network OTN to EverySite

Building a Fully Connected, Intelligent World