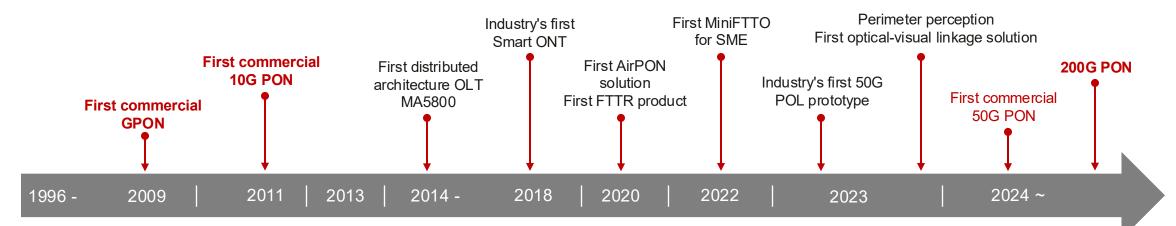
Fast and Stable Infrastructure, accelerating ISP Intelligent

Jan Horacek April 24th, 2025 Kam kráčí digitální sítě, Olomouc, Czech Republic



Huawei Leading Optical Access Communications Technology Innovation



Core Innovation and Outstanding Contribution



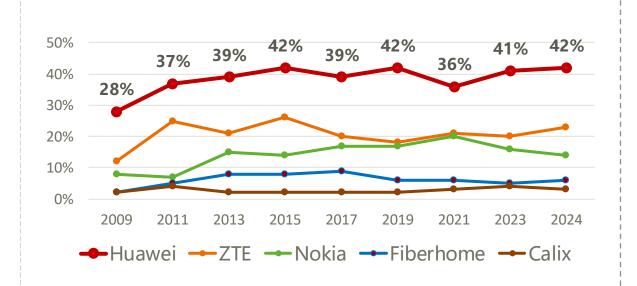


Huawei won the "Outstanding FTTH Solution Award" in 2022, BBWF, for its leading 50G PON innovation.



Huawei iFTTR F50 Wins the Leading Home Wi-Fi Networking Service Award at the Broadband World Forum 2024

Access Network Market Share: No.1 for 16 Consecutive Years





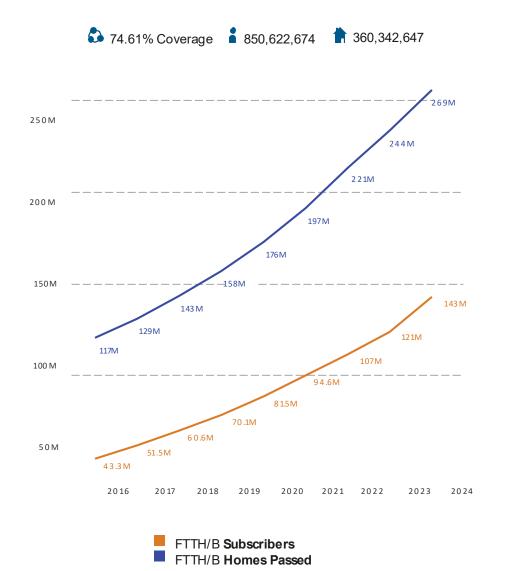
Agenda



2 Huawei Fast and Stable FTTH Infrastructure



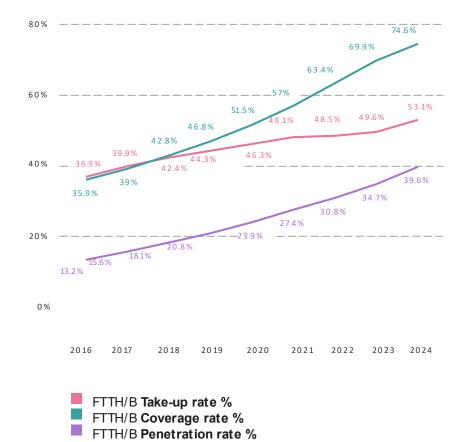
FTTH Is the Trend: EU39 FTTH penetration rate reaching 39.6%



Last 3 Years

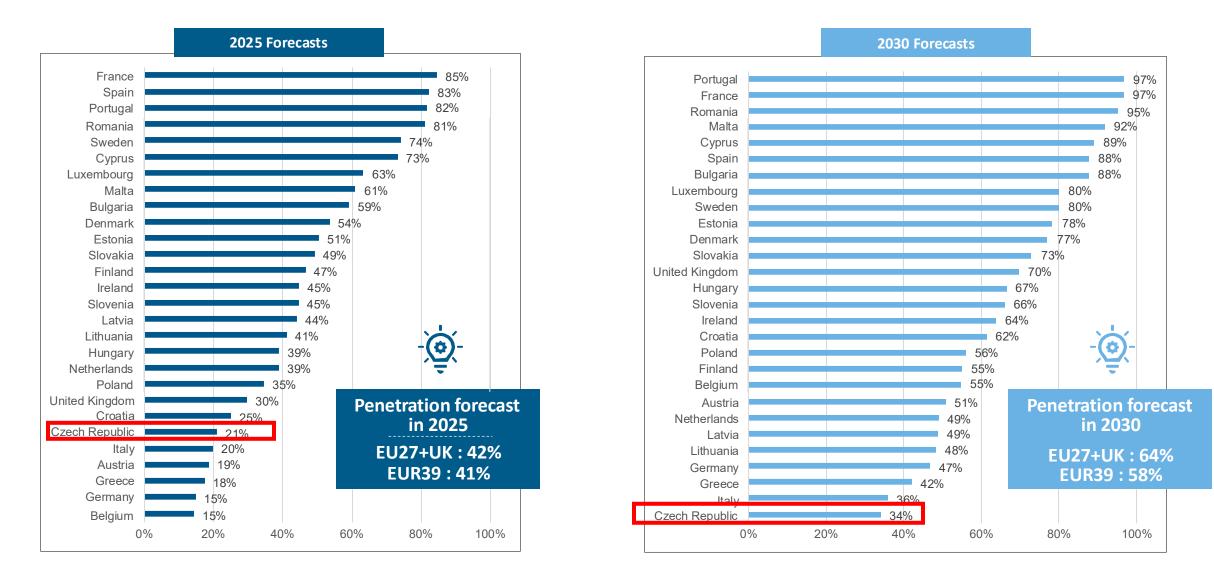
Households passed growth rate %	21.6%
Subscribers growth rate %	32.9%

100 %





2025-2030 FTTH Penetration Rate Forecast





Status of Copper Switch-off in EU Countries

no plan publicly available (15)

 Austria, Bulgaria, Croatia, Estonia, Germany, Greece, Ireland, Italy, Latvia, Lithuania, Malta, Poland, Slovakia, Slovenia, Switzerland

- NRAS ensure the switch-off transparent timetables and conditions
- Gigabit recommendation, establish a substitution matrix

commercial closure or switch-off started (12)

 Belgium, Cyprus, Czech, Denmark, Finland, France, Hungary, Luxembourg, Netherlands, Romania, Spain, Sweden

Five countries: target date complete switch-off:
 Spain (2025.5) , Sweden (2026) , Ireland (2028) ,
 Luxembourg (2030) , France (2030)

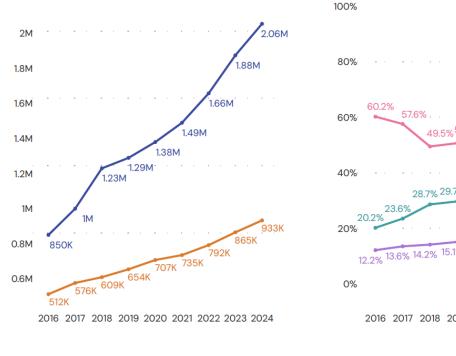
Availability of alternative products

Full transparency towards

Non-discrimination

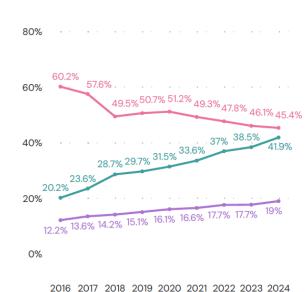


FTTH Development Progress in Czech Republic



Trends of the main FTTH KPIs

FTTH/B Subscribers FTTH/B Homes Passed

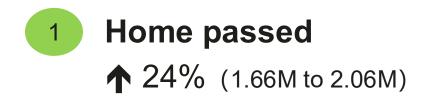


FTTH/B Take-up rate %

FTTH/B Coverage rate %

FTTH/B Penetration rate %

2024 VS 2022



2 Home Activated
 ↑ 18% (792K to 933K)

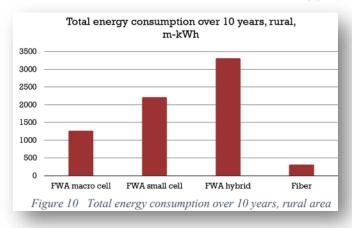


Source: FTTH Council Report 2025

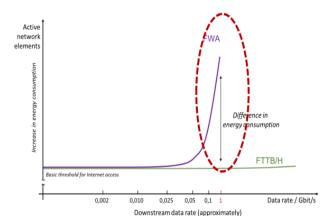


Energy Consumption and Cost Impose Constraints on FWA

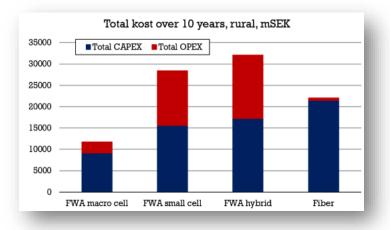
(1) Energy Fiber use 20% of FWA energy



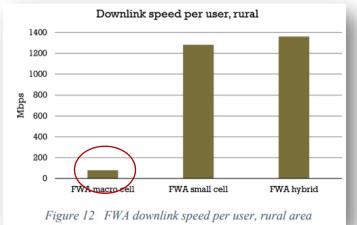
FWA consumes more energy per Giga Under high penetration of Fiber



② Cost Fiber save 30% cost



FWA macro cost is low but speed is limited





Agenda



2 Huawei Fast and Stable FTTH Infrastructure



Typical challenges in FTTH development

Regulatory

increase project complexity.

Build

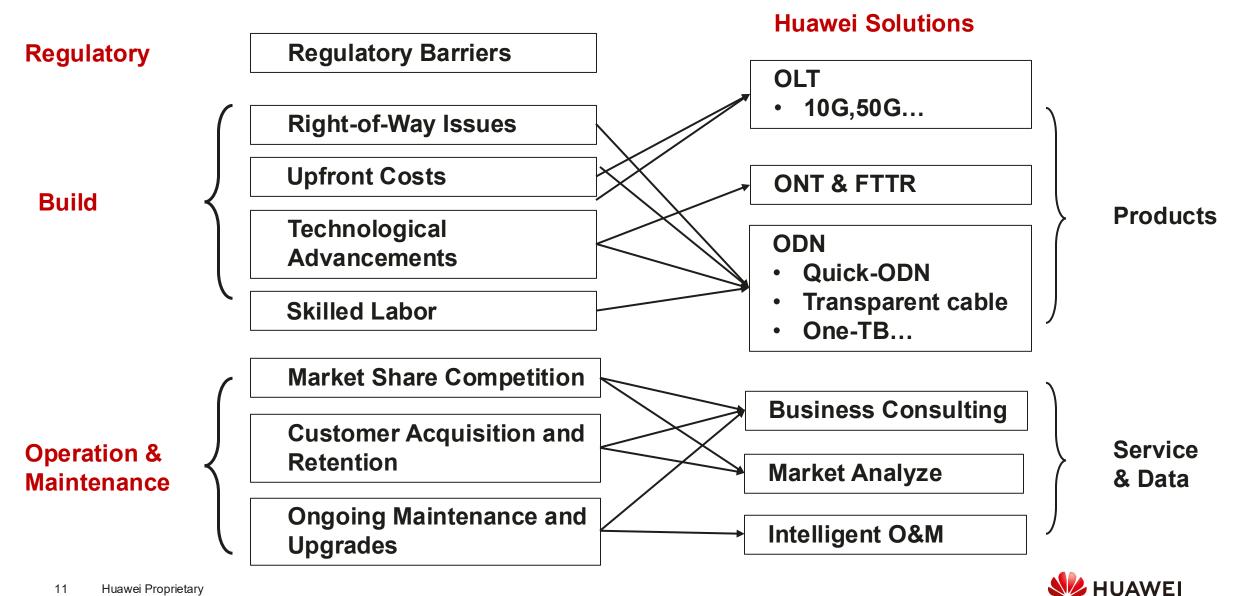
Right-of-Way Issues	 Overcoming these regulatory and logistical hurdles is a substantial challenge.
Upfront Costs	 High initial costs, especially in rural and underserved areas, can be a major barrier.
Technological Advancements and Compatibility	 Failing to do so can result in network obsolescence and significant re-investment.
Skilled Labor	 FTTH construction and maintenance require skilled labor. Ensuring access to qualified workers is critical to avoiding delays and escalating labor costs

Operation & Maintenance

Market Share Competition	•	Gaining market share demands strategic pricing, marketing, and exceptional customer service.
Customer Acquisition and Retention	•	Attracting and retaining customers is an ongoing challenge
Ongoing Maintenance and	•	Ongoing maintenance and timely technological updates are essential
Upgrades		for ensuring reliability and speed.

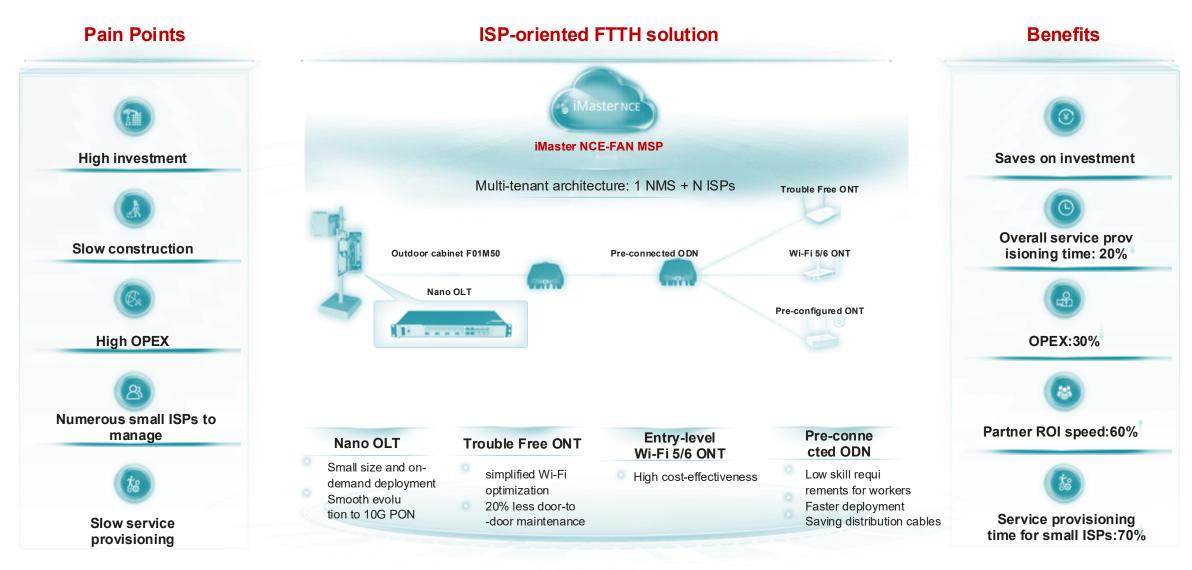


Huawei can help on for these challenges



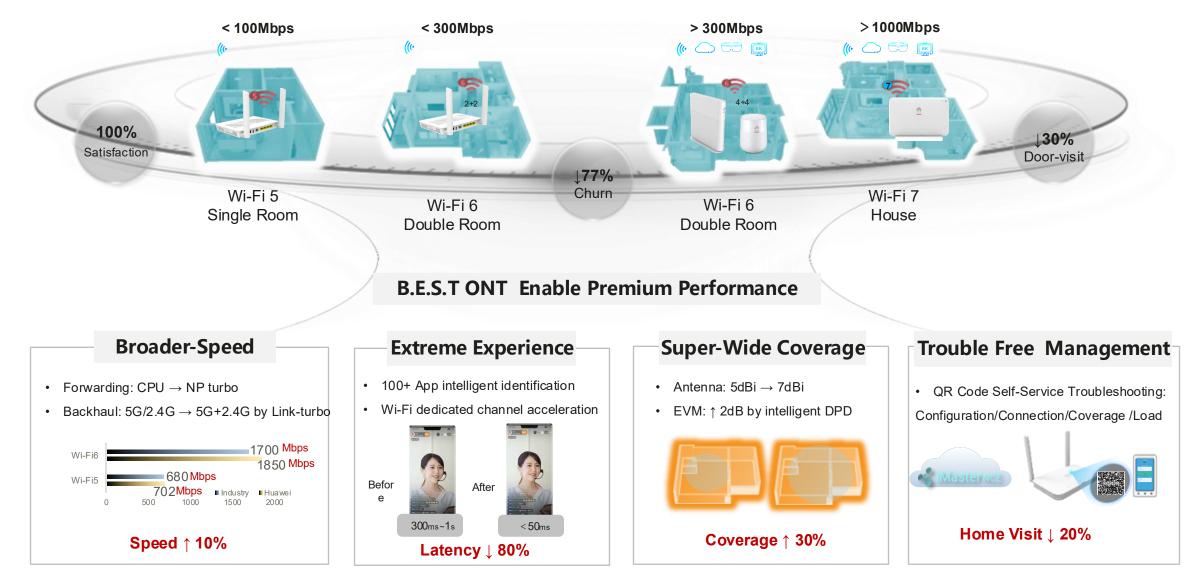
11 Huawei Proprietary

Huawei FTTH Solution Drives Business Success for ISPs





B.E.S.T ONT Bring Carrier Level Wi-Fi Experience to Every Home

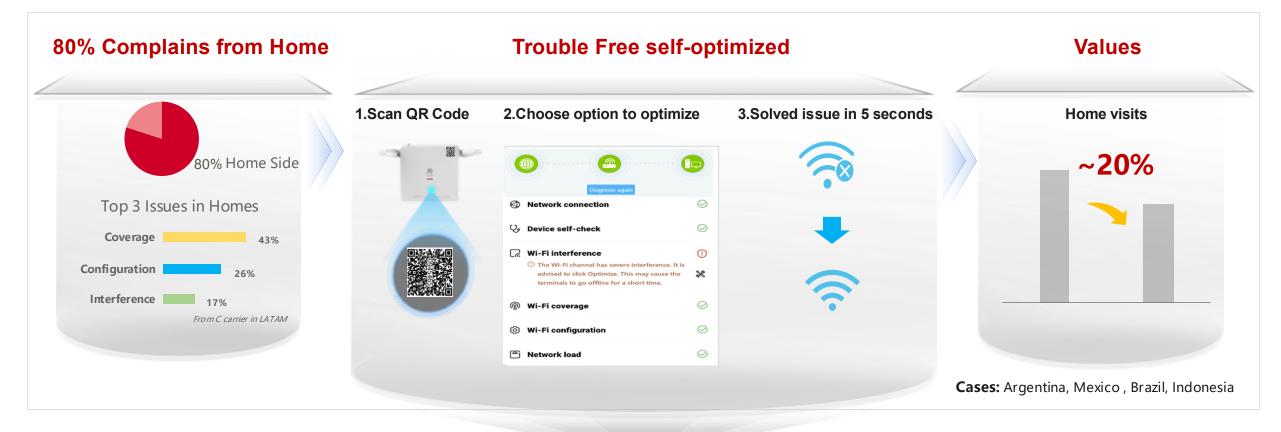


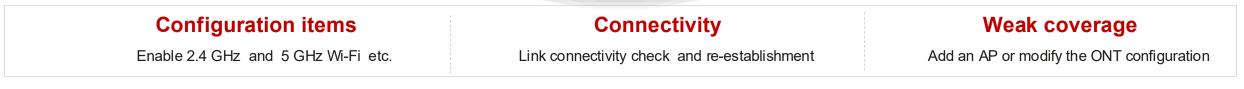


ONT

OLT

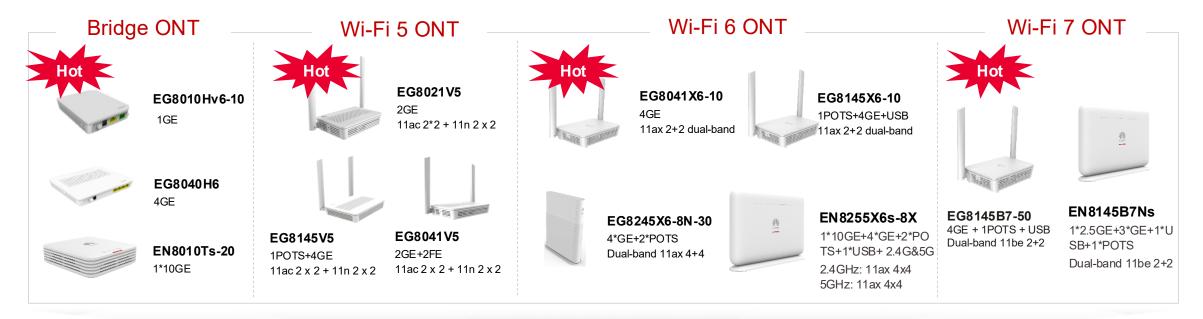
One less home visit: Trouble Free ONT Self-optimized



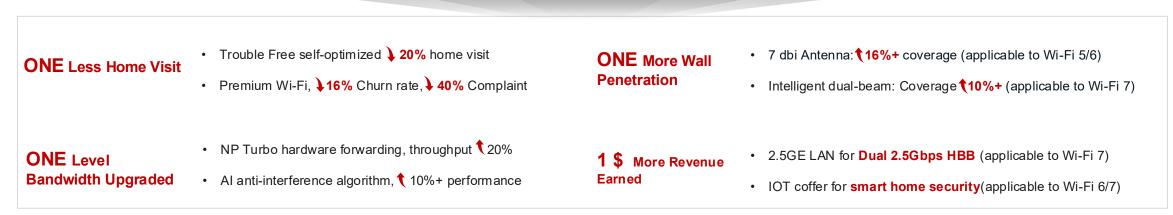




Huawei OptiXstar Series ONT Products



Four "ONE" Competitiveness

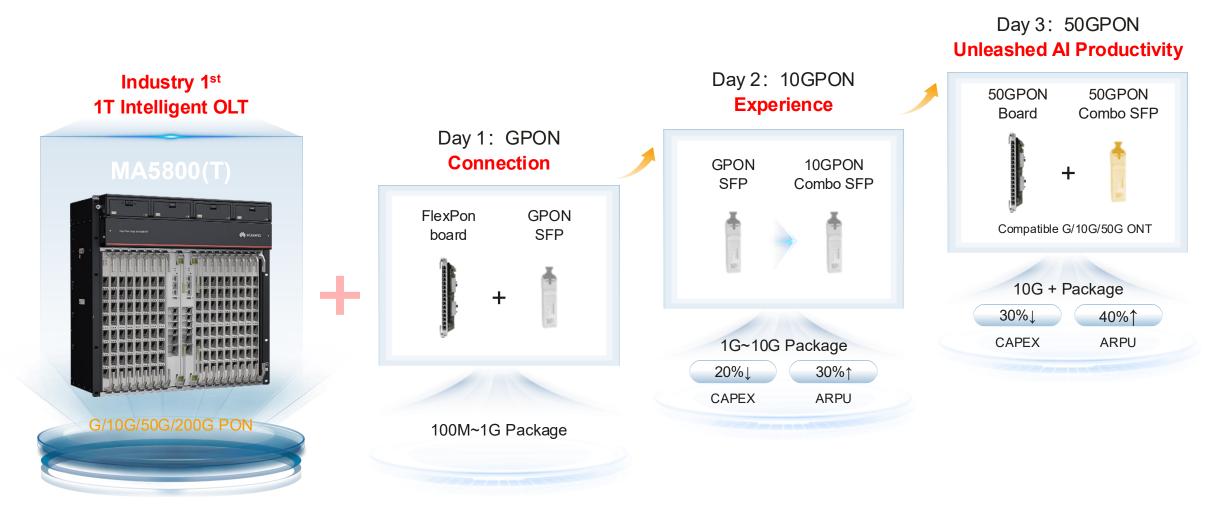




ONT

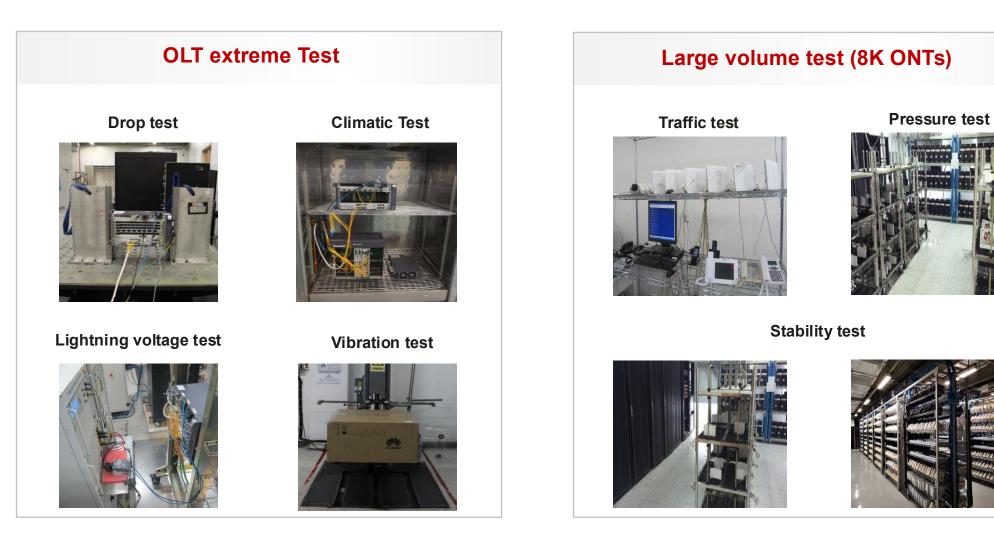
OLT

MA5800(T) OLT Platform Support Smooth Evolution from GPON to 50GPON





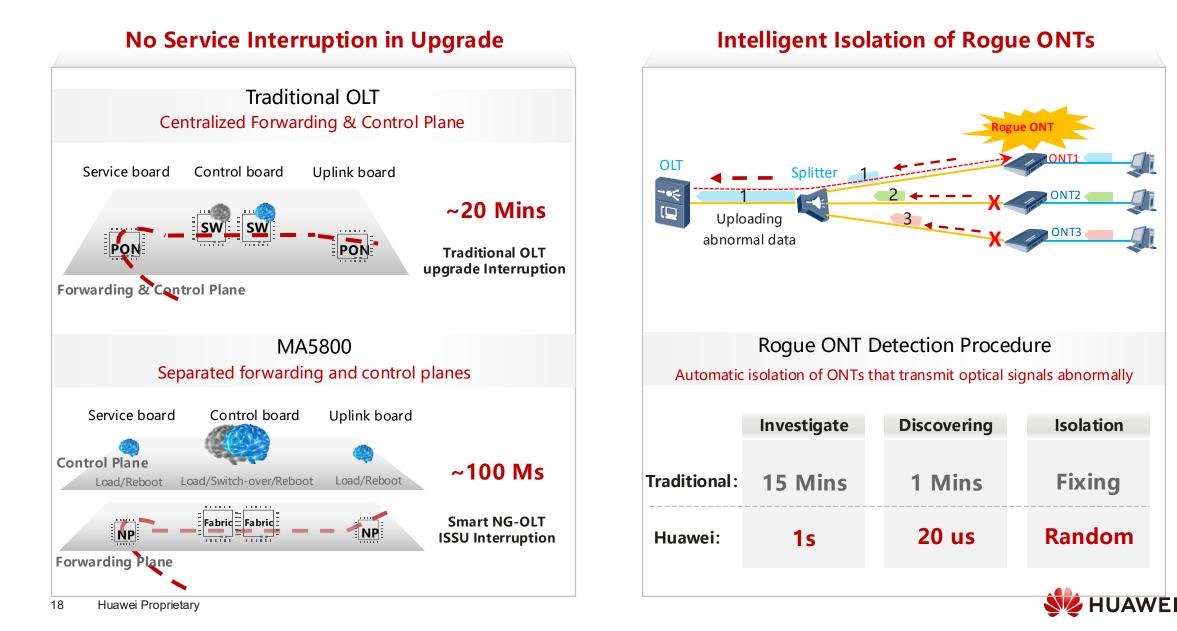
Less on-site maintenance: OLT strictest test, Better Quality



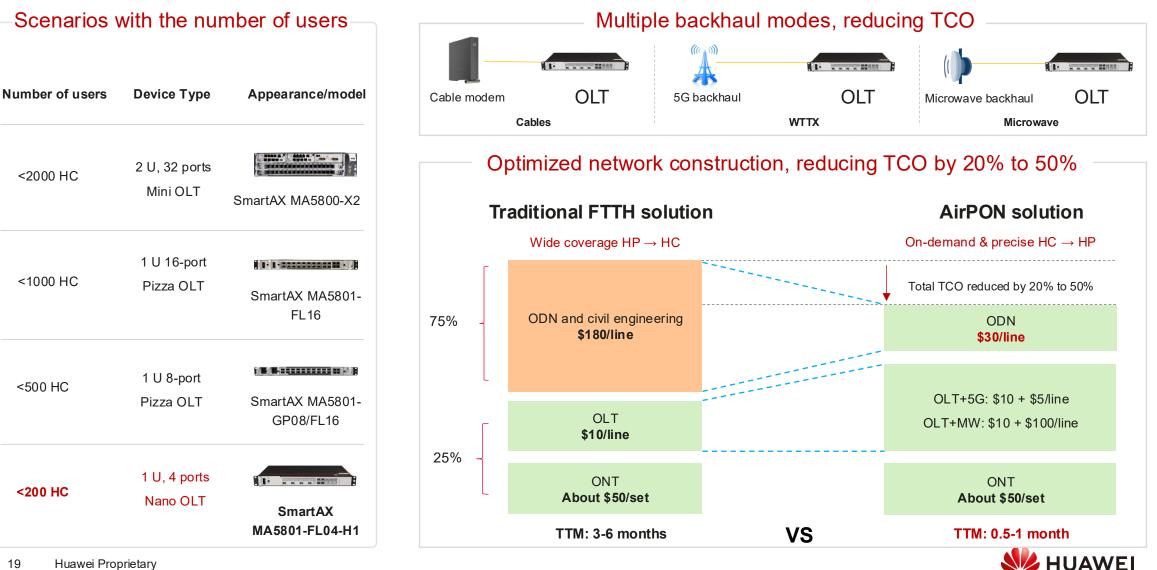
Strict Test Requirement Guarantee System Reliability >99.999%



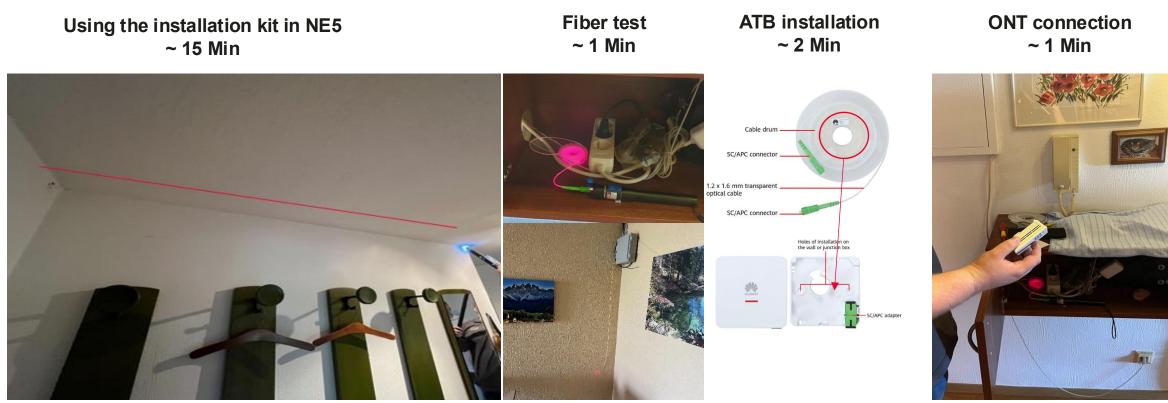
Sustainable Development : OLT performance, Ensure business continuity



Full-Scenario PON Matching the Requirements of HBB in Multiple Scenarios



Huawei Transparent Fiber bring Benefit for NE4/NE5 Deployment



- Align with customer for the route plan
- 1m / min fiber deployment speed in straight way
- Slowly moving when pass the corner and **press the corner point** until fully stick
- Extra adhesive are suggested for the corner



 Use laser source pen to check if there is brocken on the fiber

Shorten TTM 50%+

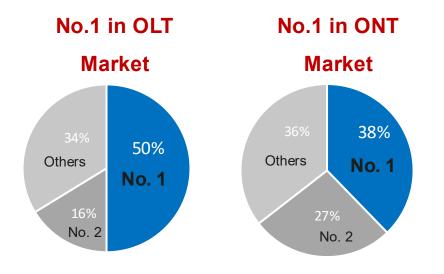
- Install **ATB box** to store
 the Fiber Trommel
- Connect ONT device with transparent fiber
- the transparent Fiber make the End customer more easy to accept FTTH.
 HUAWEI

20 Huawei Proprietary

OLT

ONT

Huawei is Your Best Partner in FTTH Business Development



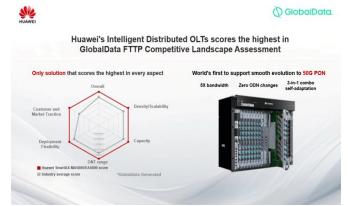
50G PON: Totally 30K+ ports shipment by HW@2024

FTTR: Totally **40M+ FTTR Users** by Huawei FTTR Solution @ Mar. 2025

- China: 3M Monthly Increase of FTTR Users, 40M Total
 FTTR Users
- Oversea: 28 Carriers Launched FTTR Package, 200 K
 Sets for Commercial Use

Source: OMOIA *Cignal A

Ranks No. 1 in OLT Competitiveness GlobalData 2024 MA5800T&MA5800



FTTx Innovation Award 2024 Lightwave Innovation Reviews

2024



RedDot Design Award 2024 OptiXaccess MA5800T



Leading In-Home Wi-Fi Service Network X 2024 iFTTR F50





Thank you.

Bring digital to every person, home and organization for a fully connected, intelligent world.

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