TUAWEI

NetX2025

GUIDE to the Future Network

Outlook for The Next 10 Years

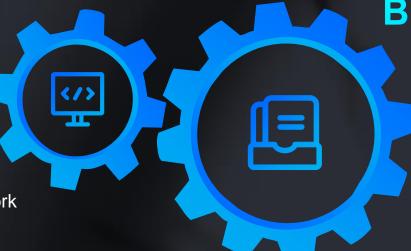
Technology Driven

Cloud computing

• Penetration: 100% enterprise

Al is becoming mature

Deep learning, artificial neural network



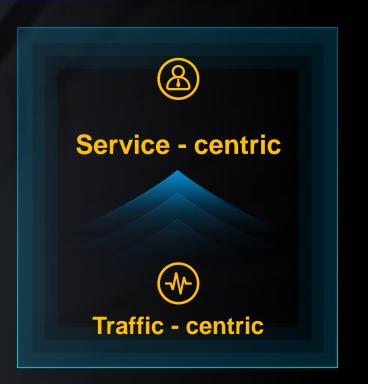
Business Driven

Service type

- Consumer services → industrial services
- Best effort → controllable assurance

Customer type

• 2C/2H → 2B + 2C/2H



Business and **Technology** Drive the Evolution of Telco Networks...

SDN/NFV have transformed network productivity
5G drives digital transformation accelerating

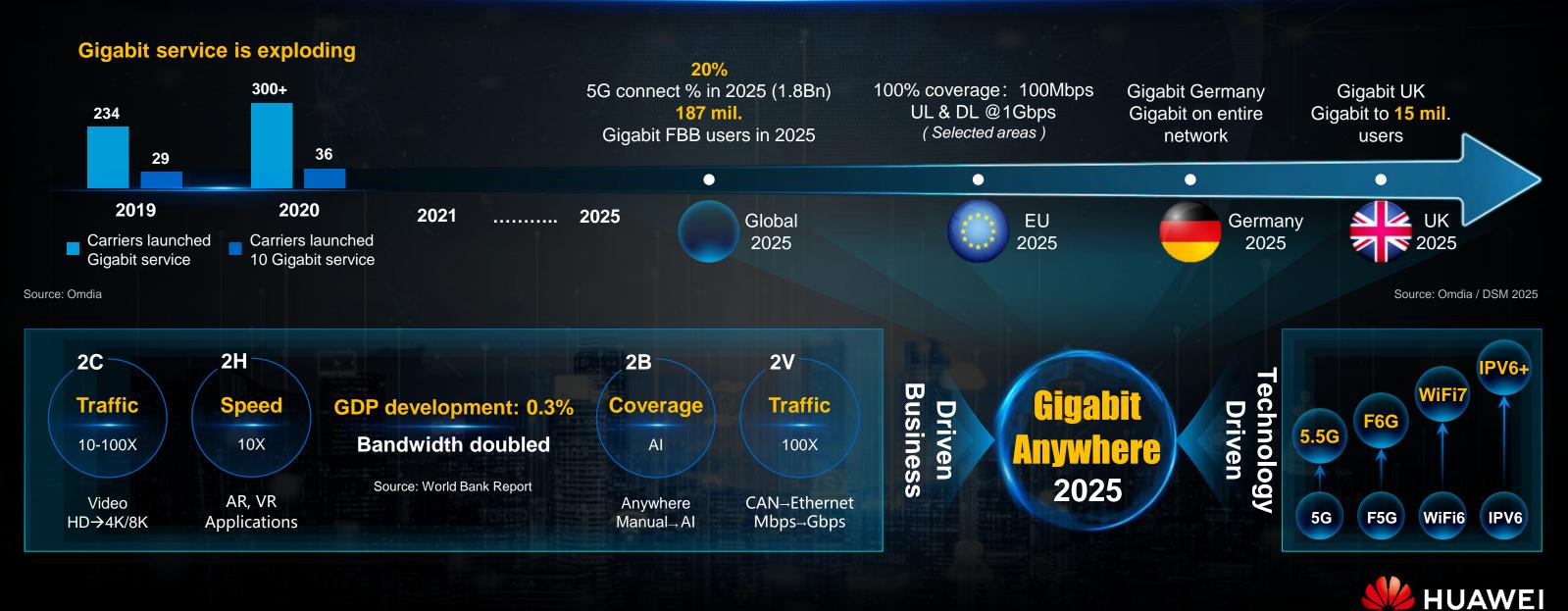
Services change is the key for target network planning

Al promotes the leap from human intelligence to machine intelligence

Business oriented target network planning for the next 10 years



1 All-scenario Services Lead Gigabit Anywhere



2 BigData & Intelligence Enable Ultra-Automation

Ultimate 2B service experience

DIY service

Second-level cloud + network provisioning

Cloud-network resource management and visualization

E2E experience from subscription, usage to payment

Business Driven

2025

Technology Driven

Top 10 strategic technology trends in 2020

Trend No 1. AUTOMATION

Target: DTO + Al-driven Decision-making

Digital twin of the organization (DTO)

Gartne

5G requires ultra-automation

Leave simplicity to people and complexity to Al



Industry network connection density with 5G



Number of 5G parameters to be configured

More accurate planning

Faster deployment

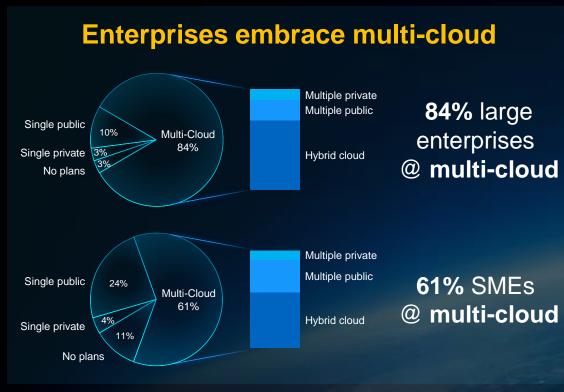
Simplified O&M

2025

More efficient optimization

3 Industrial Digitization Requires Intelligent Multi-Cloud Connection

Business Driven



source: RightScale cloud report 2019

Intelligent Multi-Cloud Connection

2025

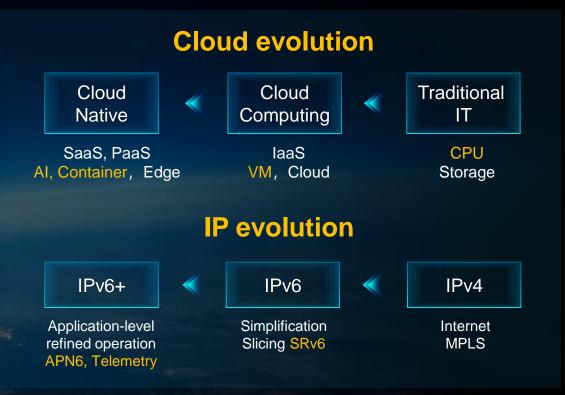
Aggregated Clouds Infrastructure

- MEC + Own Cloud + Partner Cloud
- One account for access and self-service

Intelligent Cloud-Network

- One line to multiple clouds
- One-click network and cloud access
- Full mesh between clouds

Technology Driven

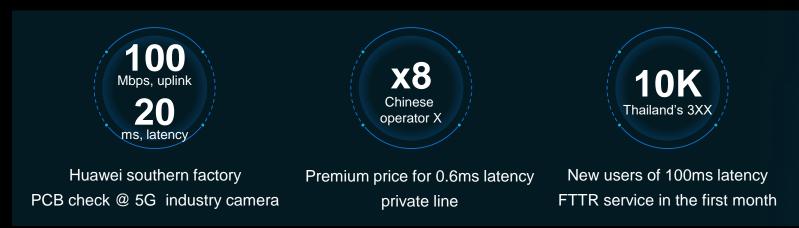


APN: Application-aware IPv6 networking



4 Demand Diversities Promote Differentiated Experience for Monetization

Business Driven



Technology Driven







Base



Experience

5 Environmental Harmony for Sustainable Development





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Demand Diversities Promote

Differentiated Experience for Monetization

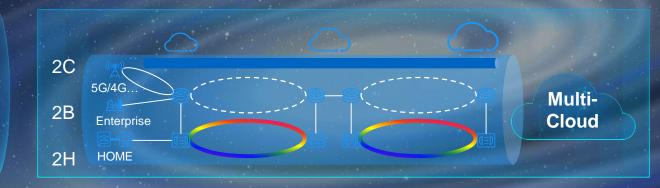
4 For Business

All-scenario Services Lead

Gigabit Anywhere

1

Access



For O&M

BigData & Intelligence Enable

Ultra-Automation

2

For Sustainability

Environmental Harmony for Sustainable Development

5

Industrial Digitization Requires
Intelligent Multi-Cloud Connection

3

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NetX2025 Technical White Paper