

Advanced Connectivity & the Leap to Intelligent Services

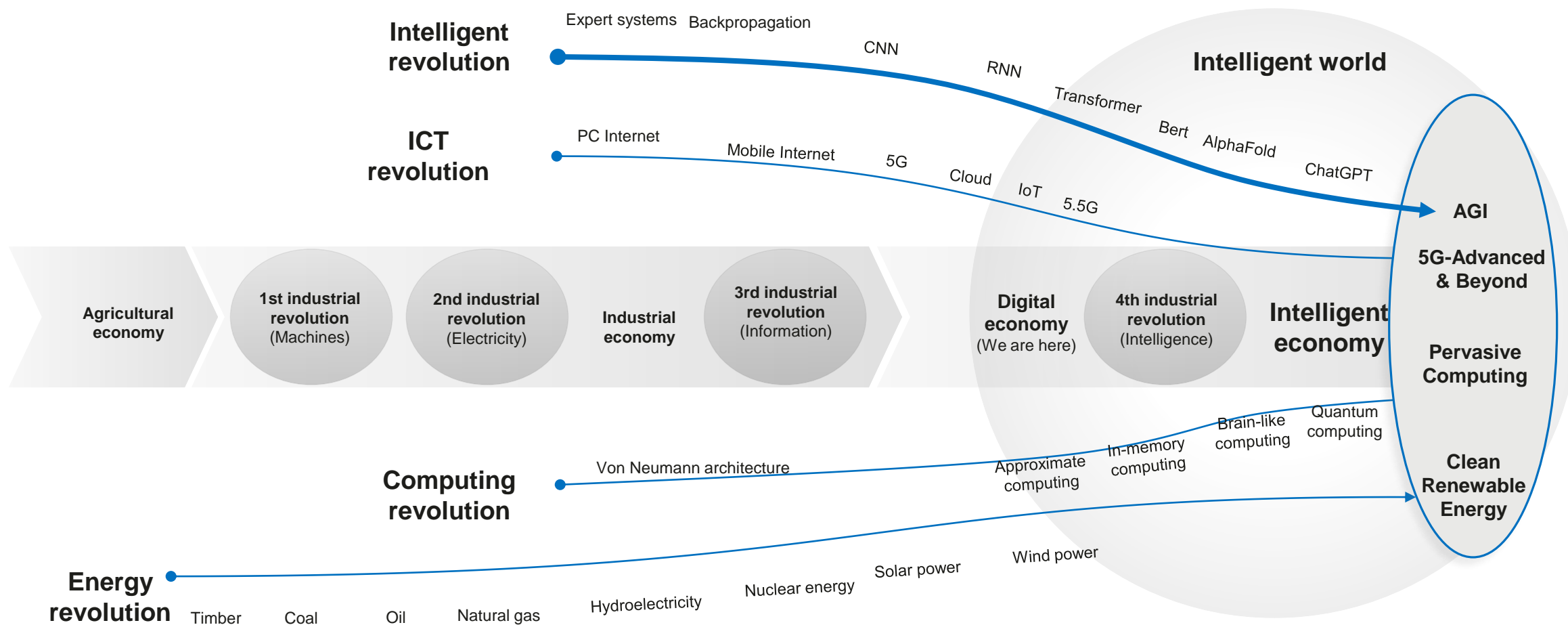
Keynote presentation for: InfoCom World 2024, Digital Greece: Time for a Leap!

Building a Fully Connected, Intelligent World



We are Rapidly Entering an Age of “All Intelligence”

Connectivity + Computing + AI are the Pillars of Tomorrow



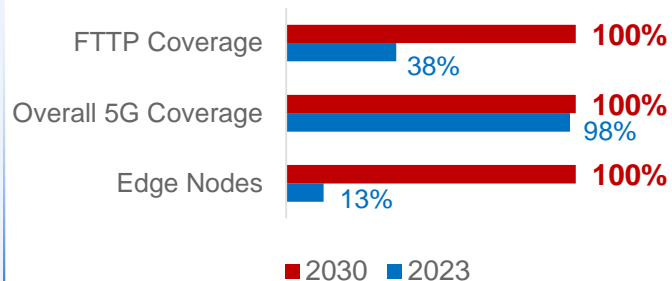
Working Towards a Digital, Intelligent & Green Greece



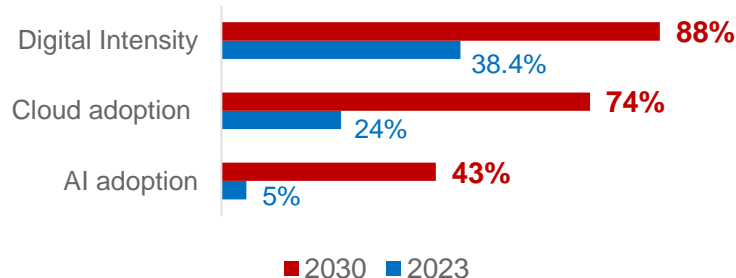
GREECE DIGITAL DECADE

Government Skills Infrastructures Business

Digital Infrastructure



Digital Enterprises



Climate and Energy Strategy (National Climate Law - 2022)

GHG Emissions: 55% (2030) / 80% (2040) reduction.

Power Generation: Boosting use of **renewable energy**.

Transport: Subsidies/Policies to increase **EVs adoption**.

Advanced Connectivity

5G-Advanced 50G PON 10Gbps Campus

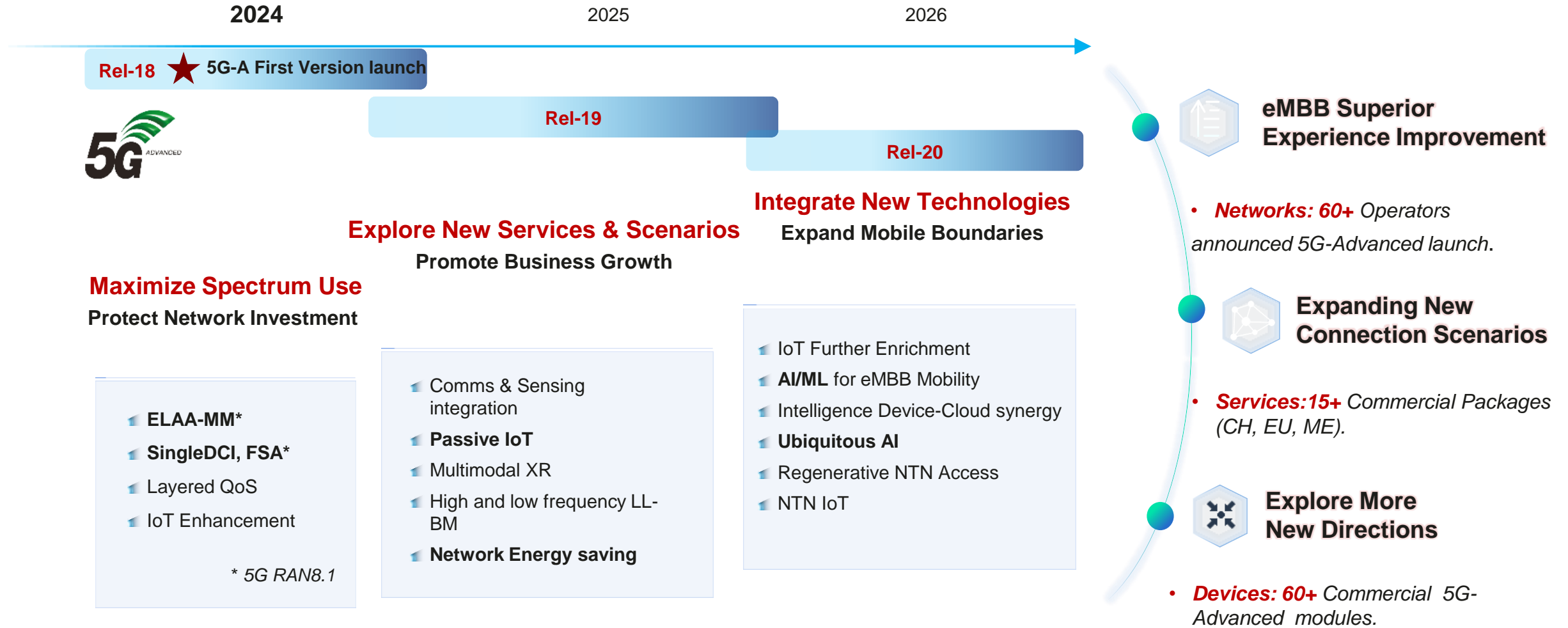
Boosting Cloud & AI

Hybrid/Edge Cloud AI Storage

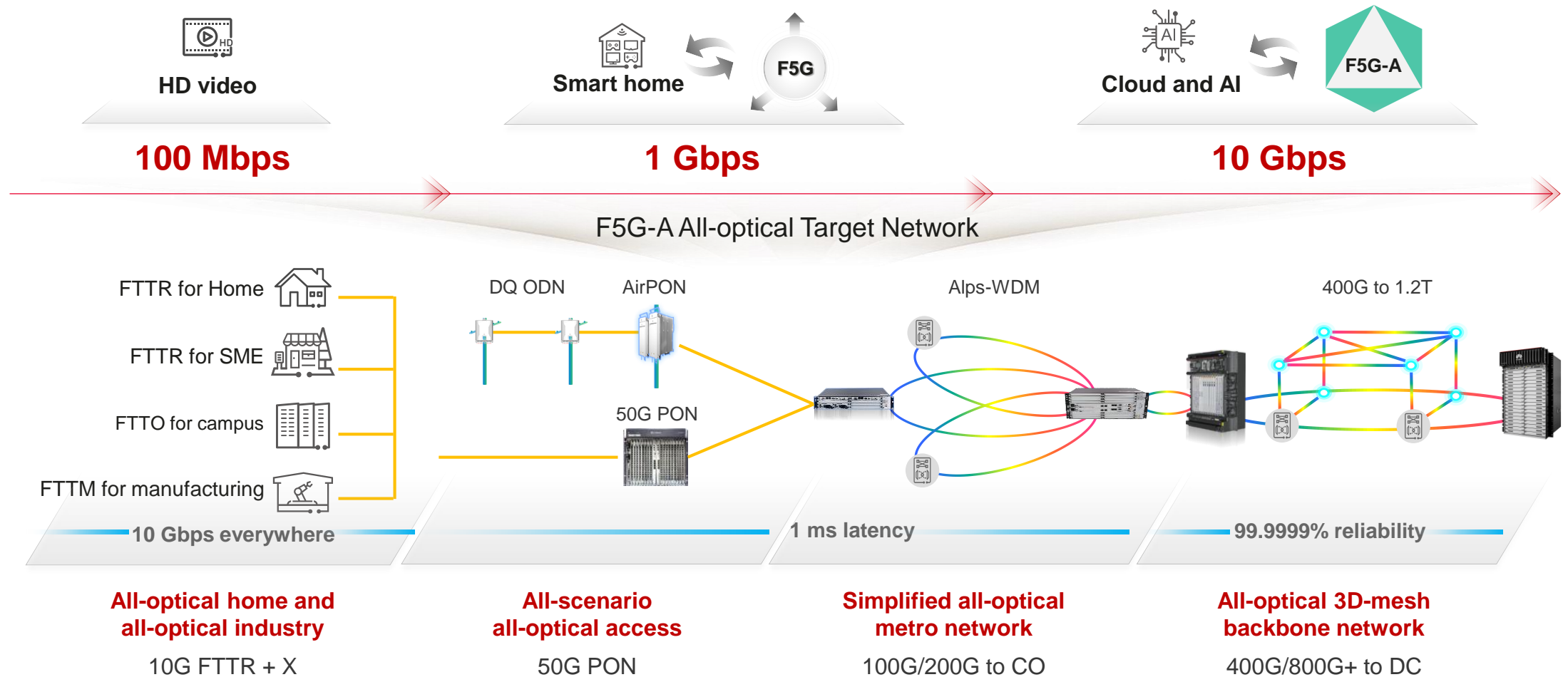
Green Transformation

Green Energy & EV Charging

Advanced Connectivity: The 5G-Advanced Journey Has Begun



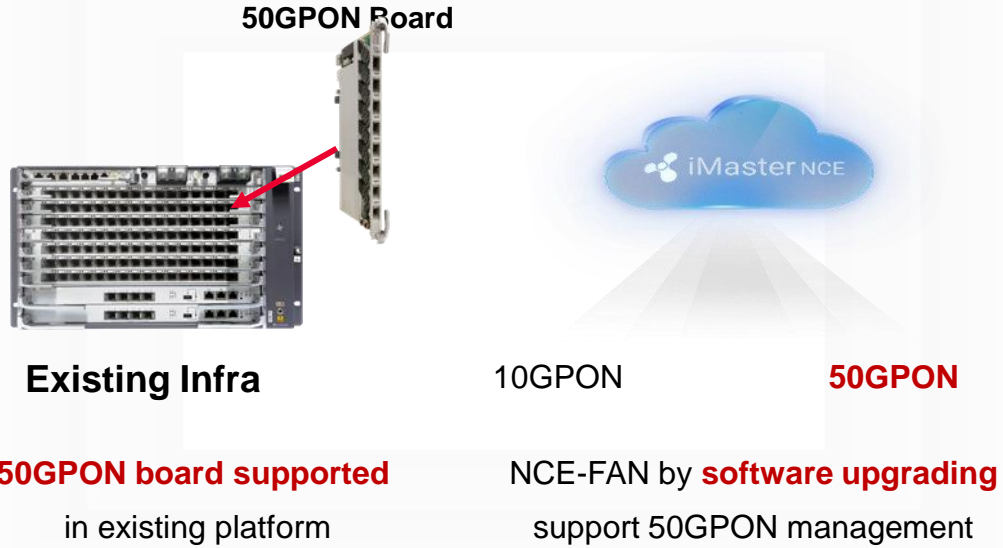
Advanced Connectivity: 50GPON & All-optical Ultra-broadband Network



Advanced Connectivity: Ultra-broadband Platform Smooth Evolution

Upgrade Existing Platforms

50GPON Board Supported to Fast Develop Users



Future-proof OLT Platform

10GPON/50GPON boards Supported for Cost Saving



Future-proof OLT

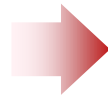
Key Infrastructure Requirements:

- Smooth evolution : 10GPON→50GPON
- G/10G/50G PON boards reuse supported

30+ Operators Testing & Verifying 50G PON



50GPON



B2B



Large Enterprise



Wi-Fi 7 Campus Backhaul

B2H



Support higher FTTH
Tariff and higher ARPU

Advanced Connectivity: Monetization Evolution Towards Smart Homes

One Fiber

1Gbps → 10Gbps



Online



Online



10GPON
Wi-Fi 6

50GPON
Wi-Fi 7

One Home Network

FTTH → FTTR



Broadband



Voice + SIM



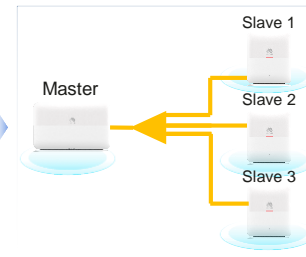
HD TV

- 10Gbps to all rooms
- 10ms latency
- 8TB home storage
- 0 PLR roaming

MESH



FTTR



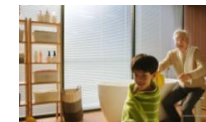
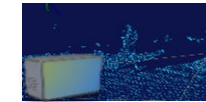
One Smart Home

Digital Home → Smart Home

Connected & Visible



AI sensing with privacy, detectable, manageable



FTTR Home AI Hub



Bandwidth Monetization

Experience Monetization

Service Monetization

Cloud & AI: Telecom Foundation Models to Enable Intelligent O&M Operations

Telecom Foundation Model



Network maintenance

Intelligent inference, efficient resolution

Experience assurance

Integrated sensing, multi-objective optimization



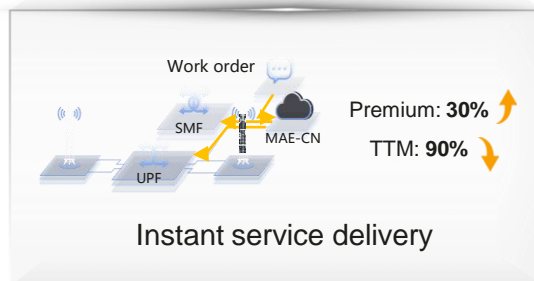
Telecom Foundation Model for AN L4

Service enablement

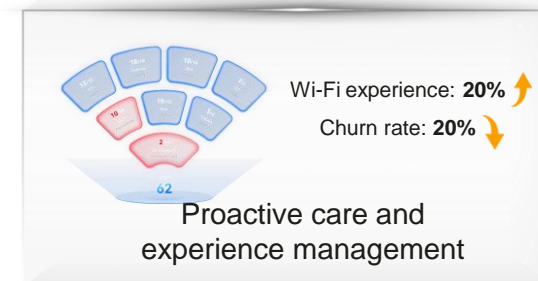
Intent-driven provisioning, agile go-to-market

Value Creation

+ Monetization capability



+ Customer experience



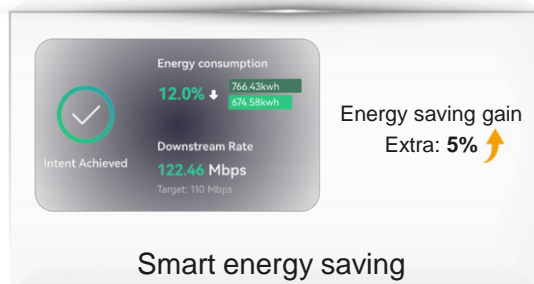
Agents

Scenario-based machine-machine collaboration
Policy-driven, automated closure

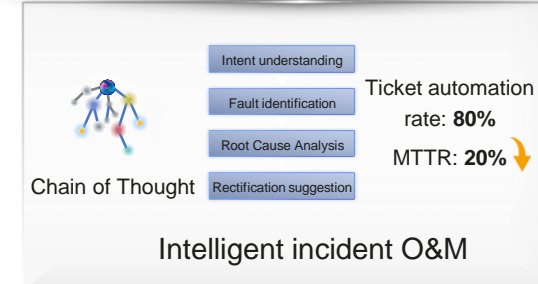
Copilots

Role-based human-machine collaboration
Intelligent Q&A, assisting O&M

+ Resource efficiency



+ O&M efficiency

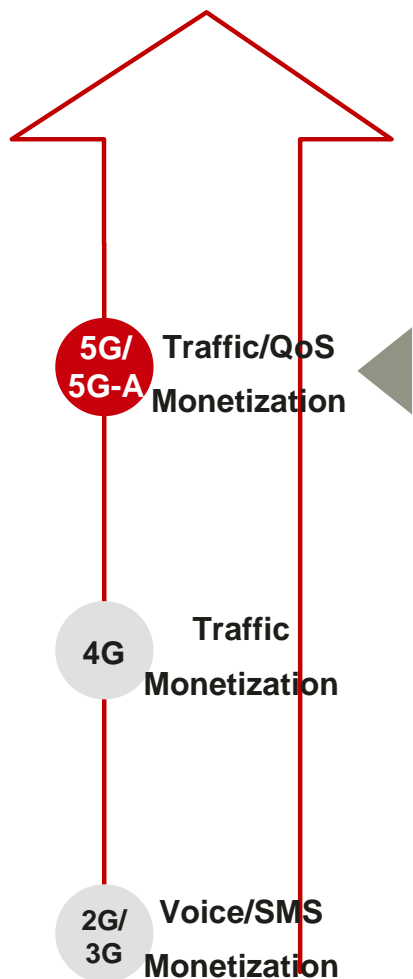


Network – Cloud – Intelligence Synergy to Open Up New Opportunities



Synergy for : User Experience / Business model / Network Architecture Re-construction



Network: Experience Monetization is the New Trend



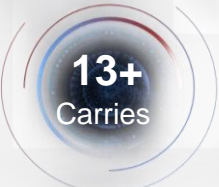
① DL Speed-based Monetization

- Speed Priority for High End  

Data Volume	Unlimited Basic	Unlimited Smart	Unlimited Max
25 GB 50 GB 140 GB...	3 Mbps 29.99 €	15 Mbps 39.99 €	500 Mbps 99.99 €

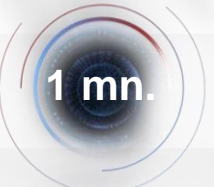
② Uplink Monetization Thrives

- Live Streaming Tariff



13+ Carriers

with Uplink Live Streaming Plans




1 mn.

Livestream Subs in China


③ VIP Users with High Network Priority & Customized Logo

SUPREME Unparalleled Experience				Ordinary
51 \$	64 \$	81 \$	102 \$	16~29 \$
150 GB	200 GB	250 GB	350 GB	30~100 GB
Thereafter Data < 1Mbps		Thereafter Data < 5Mbps		-
Network Priority: QCI = 6				QCI=9
Customized Logo: SUPREME				-


60+ 5G Operators
Monetizing 5G
Network QoS




AIS
Hotspot
Booster Add-on




3
QoS Privilege
for VIP Users



du
Speed-Tiers
in 5G era

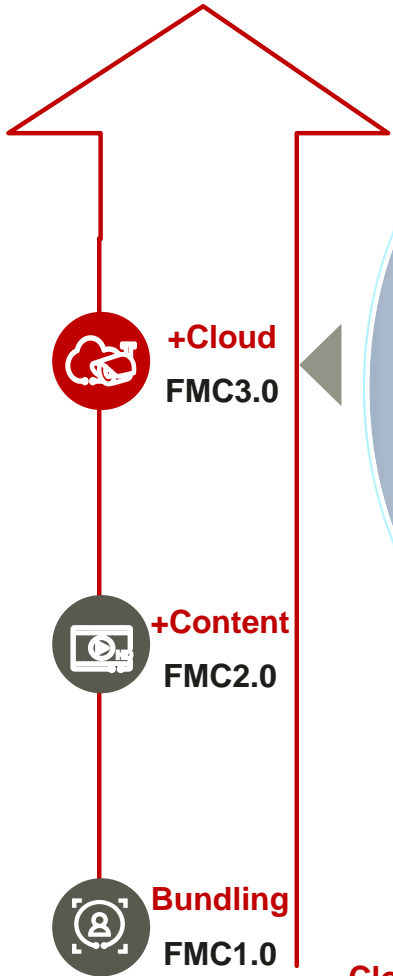


中国移动
China Mobile
Uplink-based Live
Streaming



ooredoo
5G Gaming
Accelerator

+ Cloud: FMC3.0 Extends Connections, Explores New Growth Spaces



ToB

Smart Education

Full Stack Solution (Cloud IaaS/SaaS, Network & Terminal)

ToH

Video Monitoring

eCloud Camera

Users YoY 100%
 20 million 2021 → 60 million 2023

- Bandwidth
- ARPU ↑ 13%

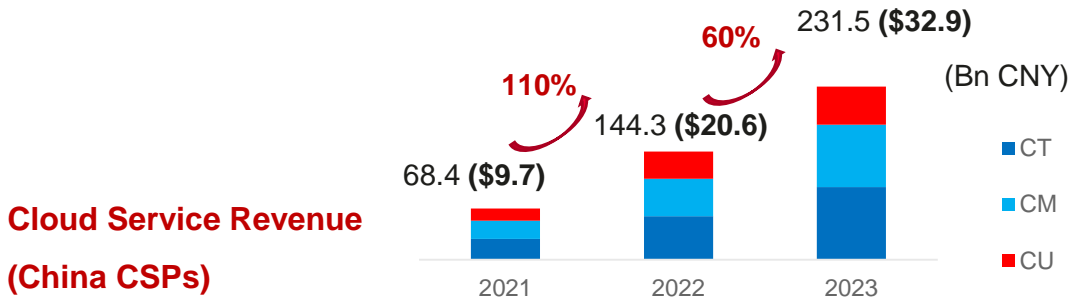
ToC

Cloud Phone

Cloud Phone

Carrier Benefits

- 18M users by 1 year
- DOU: ↑ 23%



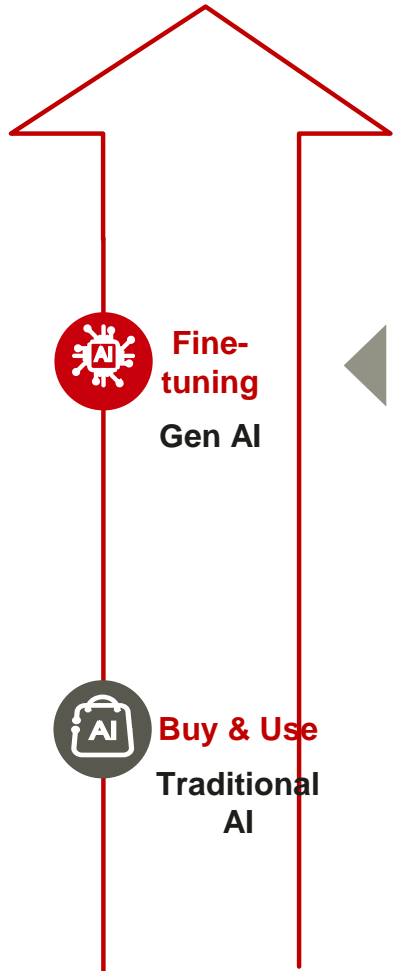
AIS: Cloud IP Camera

STC: Cloud Storage

stc Cloud Storage Services

- Disaster Recovery as a Service (DaaS)
- Backup as a Service (BaaS)
- Correspondence management systems (SaaS)

+Intelligence: Innovating Customers Relations Through AI Services





China Mobile AI+ Initiatives for 2024

Create “Model as a Service”
AICC, Government Services, ...



CMCC **Jiutian** AI platform

Build AI Product Families
New Calling, Cloud Drive, AI Camera...





Real-time Translation Visualized voice calling Barrier-free Calling

Develop AI Industry Applications
Smart Steel, Smart Healthcare, ...

35%
Basic services

IoT

5G Private Network

Fiber Private Line

+

65%
DICT services

AI applications

Industry Cloud

IDC

...



AI Corp
Transformation



Kernel 2.0
Apply Gen AI for key workflow



300+ live AI initiatives
2200+ AI and Data experts
500+ patents in AI and Big Data



A. A.: Personal AI assistant
AIX AIX: AI for core business
AI Infra AI Infra: DC, AI chips, LLM

1. Improve communication efficiency.
2. Network and IT automation;
3. AI service monetization

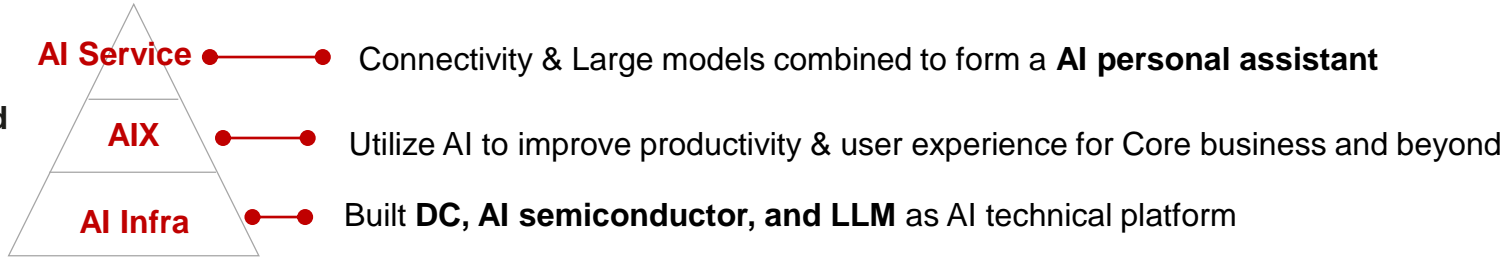
Top 3 AI priorities

1. Make networks smarter
2. Improve operating efficiency
3. Reinvent customer experience

SK Telecom AI Pyramid Strategy: A Leading example of NW + Cloud + AI Synergy

AI Pyramid Strategy: AI Infrastructure, AI Transformation (AIX) and AI Service

AI Pyramid Strategy



Planned heavy investment in AI

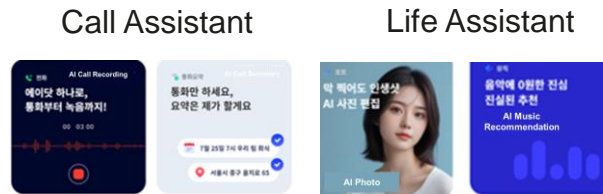
	2023	2028
AI Capex proportion	12%	33%
Revenue Trillion won	17.6	25

Strategy Execution

- | | | |
|--|--|---|
| <p>AI Infra:
Self-developed + cooperation</p> <ul style="list-style-type: none"> • Datacenter • Chip / AI Computing • Model | <p>AIX:
Internal efficiency + Industry enablement</p> <ul style="list-style-type: none"> • Network • Telecom service: AI TV and AI Home; AICC • ToB: AI-assisted diagnosis; AI financial security | <p>AI Service:
Serving the world</p> <ul style="list-style-type: none"> • AI call assistant • AI life assistant • Terminal innovation, introduce of AI Pin services |
|--|--|---|

Service Design

① A. Personal Assistant



② NUGU AI Service



③ X Caliber Pet X-ray Image AI Diagnostic Service



Complete the analysis within **30s**
~8 USD /time or ~225 USD/month

As a Summary: Digital & Intelligent ICT Infra Will Enable the Intelligent World

Intelligent World 2030

