

Digital Transformation: Building a Fully Connected and Intelligent Caribbean

Cesar Funes

Industry Policy and Ecosystem Development

Contents

- 1 Huawei Update
- 2 Digital Economy Development
- 3 Industry Trends

Huawei: Leading Provider of ICT Infrastructure and Smart Devices

Vision and mission

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



208,000

employees



54%

of employees work in R&D



170+

countries & regions



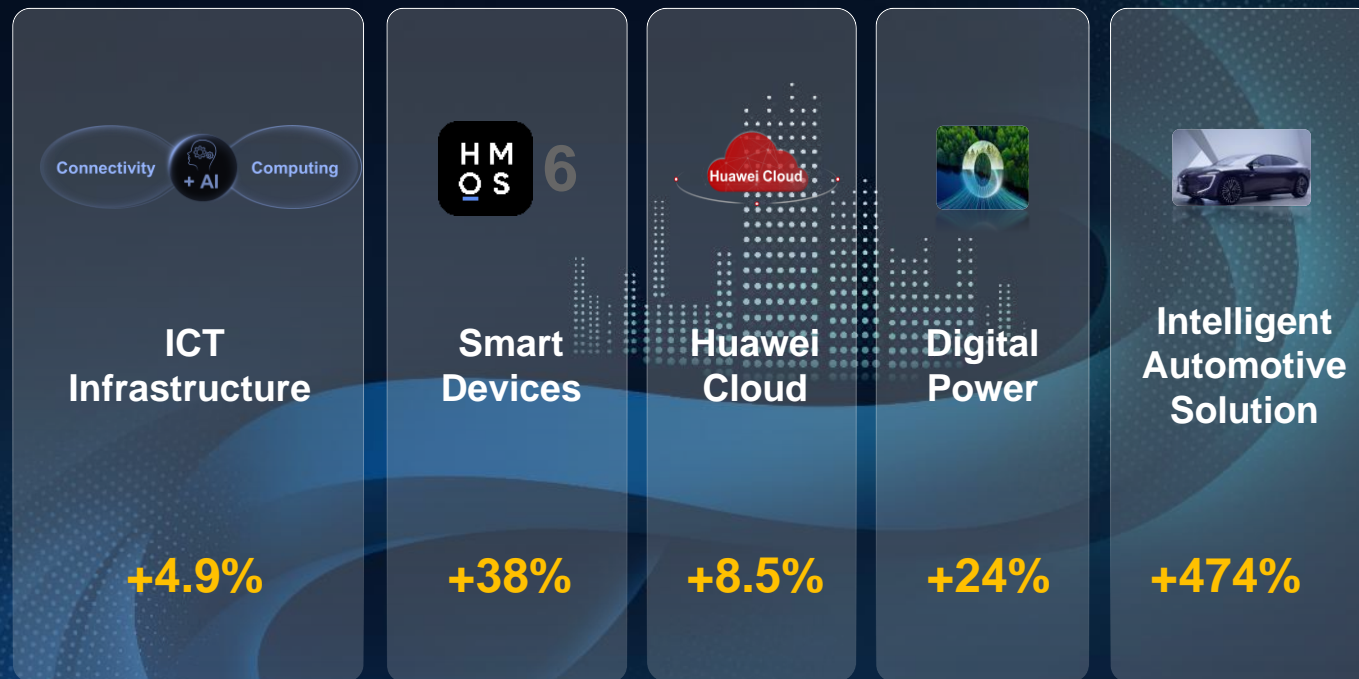
CNY862.1 bn

US\$ 118,162 Million

2024 revenue, 22.4% Growth

Building a Fully Connected, Intelligent World

Key Business Progress

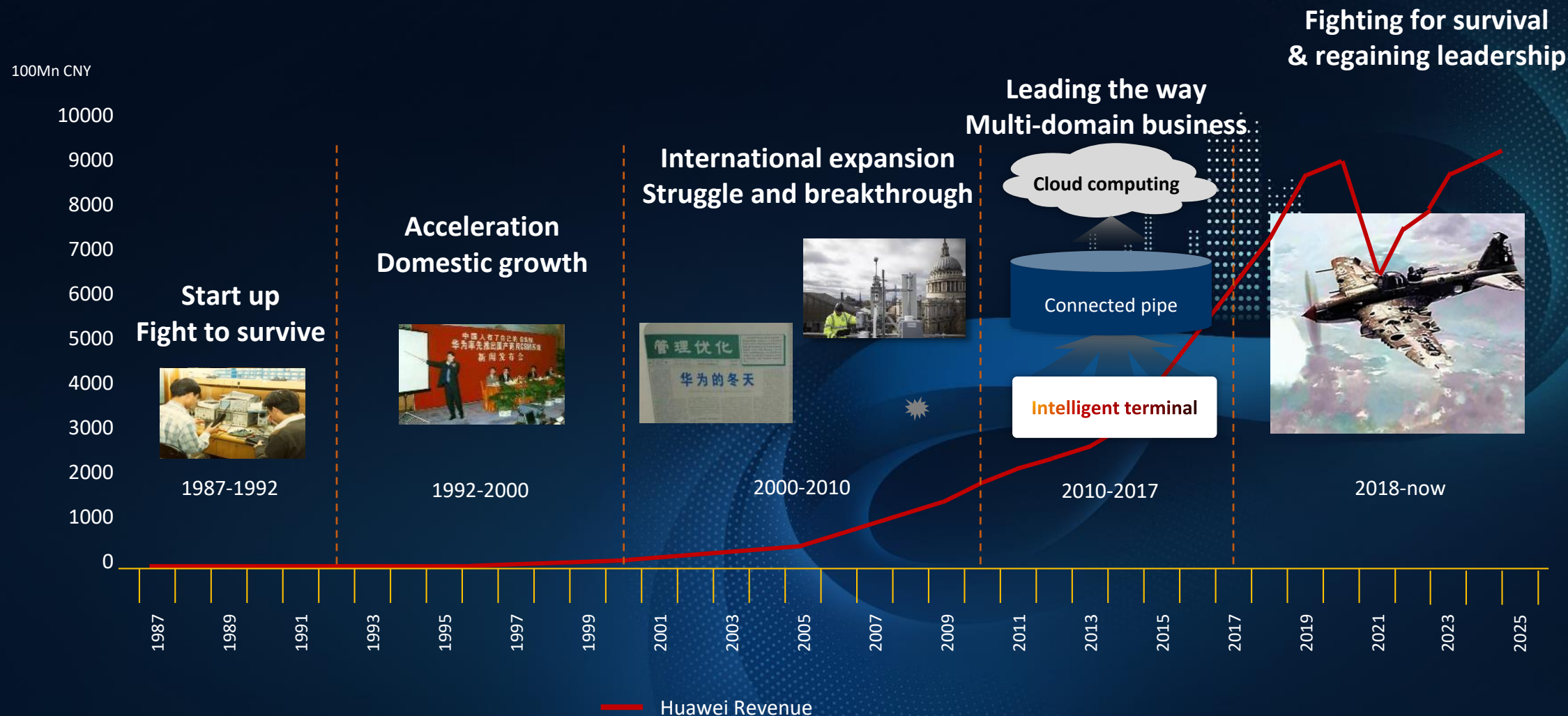


2012 Lab

HiSilicon



Huawei's 38-year Full of Learning and Growth



Building a Fully Connected, Intelligent World

Continuous ICT Innovation through Heavy R&D Investment

Global Top 5 total sum of 2019 ~ 2023

\$23 bn

Invested in R&D 2023

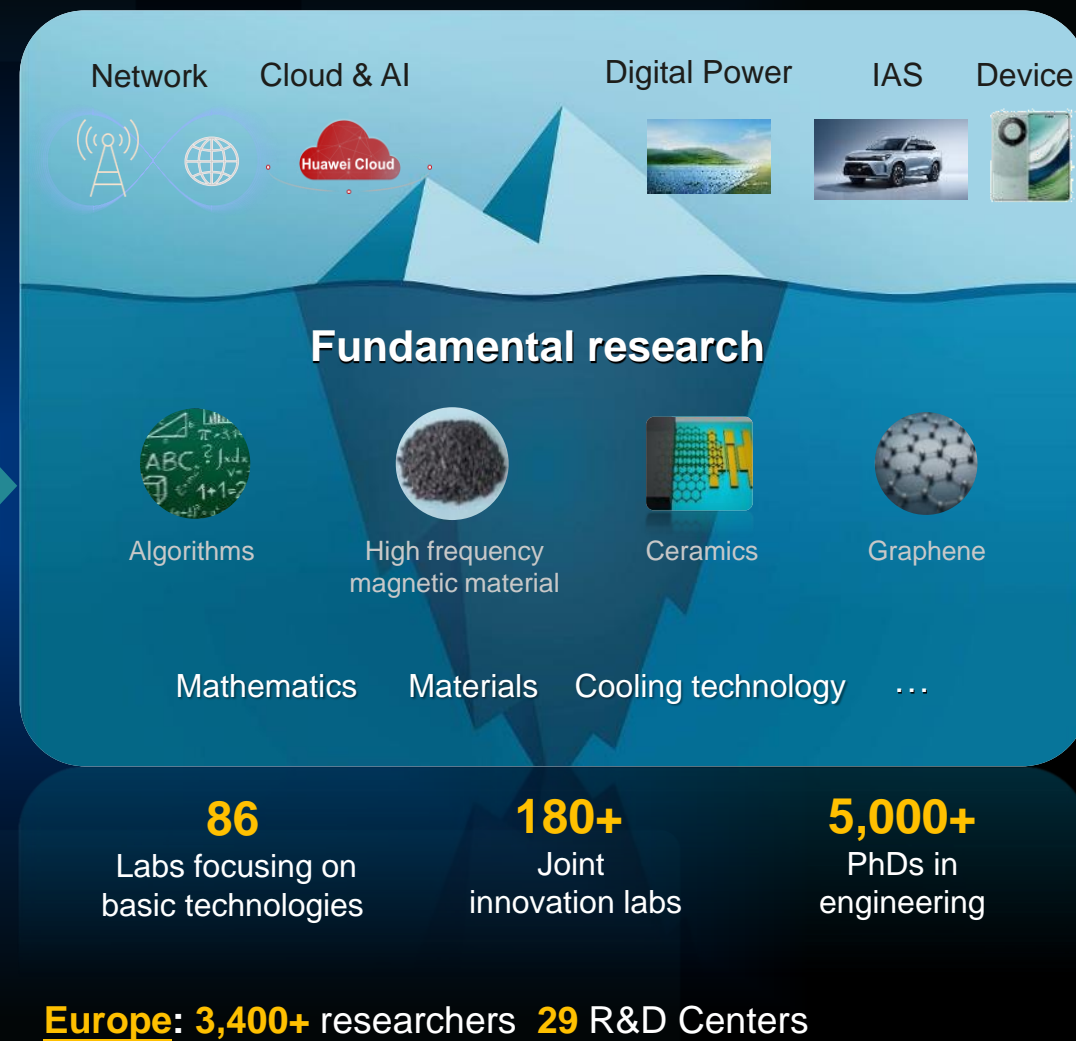
No.1 (15%)

5G Standard Essential Patents

*Source: patently 100, Jan, 2025



*Source: The EU industrial R&D investment scoreboard



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Digitalization “As an Opportunity” Is Recognized Globally

2015

15%

Digital economy's share
of Global GDP

10 ZB

Global Data
Created a Year

5Mn

New jobs
in digital industry

2024

41%

400 ZB

60 Mn

170+ countries & regions → Digital Nation Strategies
60+ countries & regions → AI Development Strategies



Source: Global Digital Economy White Paper (2024)



China: Digital Economy Is Thriving

National Telco 5Y plan

The 14th (2021-2025)
Digital China

The 13th (2016-2020)
New Infrastructure

The 12th (2011-2015)
Broadband China

The 6th - 11th (1981~2010)
Basic connectivity

Forward Looking Digital Infra

5G users
(2024.11)

1Bn

Industry robots
installation(2024.03)

No.1

BB penetration
(2024.12)

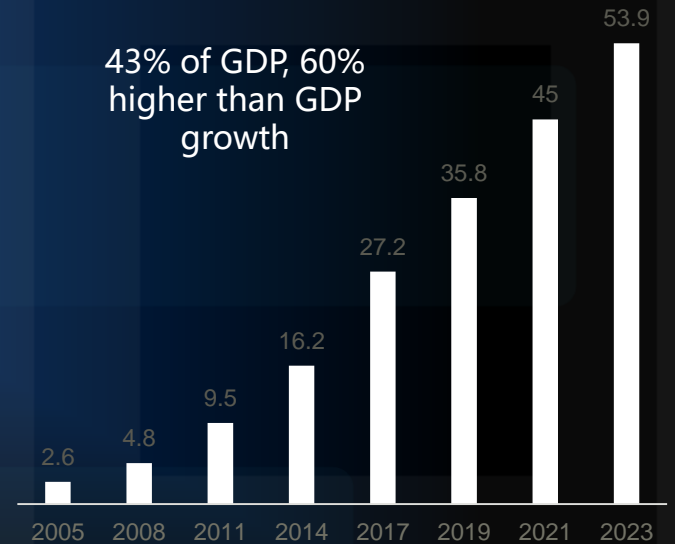
~100%

Top 10 AI models
(2025.04)

No.2

No.2 Digital Economy

43% of GDP, 60%
higher than GDP
growth



Source:: CAICT



Generating Wealth and Changing People's Life

Single's Day 11.11 in 2024

201 Bn
USD



A large number of Digital Giants
have emerged



Many people's life changed



Xing Wei and his family

Source: New York Times



Improve Social Efficiency - Smart Parking, Smart Delivery



Smart Parking

- 90% Parking lots open to the public
- Enter time < 1 mins, Exit time < 2 mins
- 1 Million Smart Parking Lots Deployed In 3 Years



Robot Delivery Service @ Hotel

- Room phone call
- Fully self service in 8 mins



Improve Manufacturing Efficiency

Past



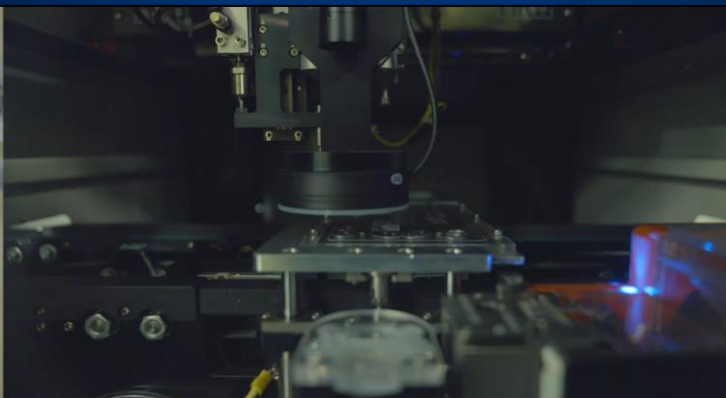
Now



Automated manufacturing
efficiency **300%** ↑

AI intelligent quality control

Time of
detection 2 mins → **6 secs**
Detection
accuracy 98% → **99.55%**



Digital Economy Plays a Key Role in Boosting Employment

China

113+ Mn

24.7% Of Urban employed Pop.

ASEAN

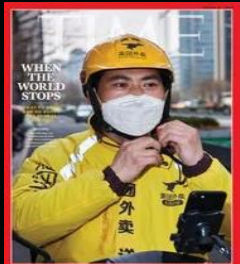
35+ Mn

15.3% Of Urban employed Pop.

Cambodia

0.5+ Mn

20.3% Of Urban employed Pop.



Meituan Rider



E-commerce



Live Show/Commerce



E-Hailing Motor



E-Gets Rider



ABA PAY

The digital economy creates new employment opportunities

Contents

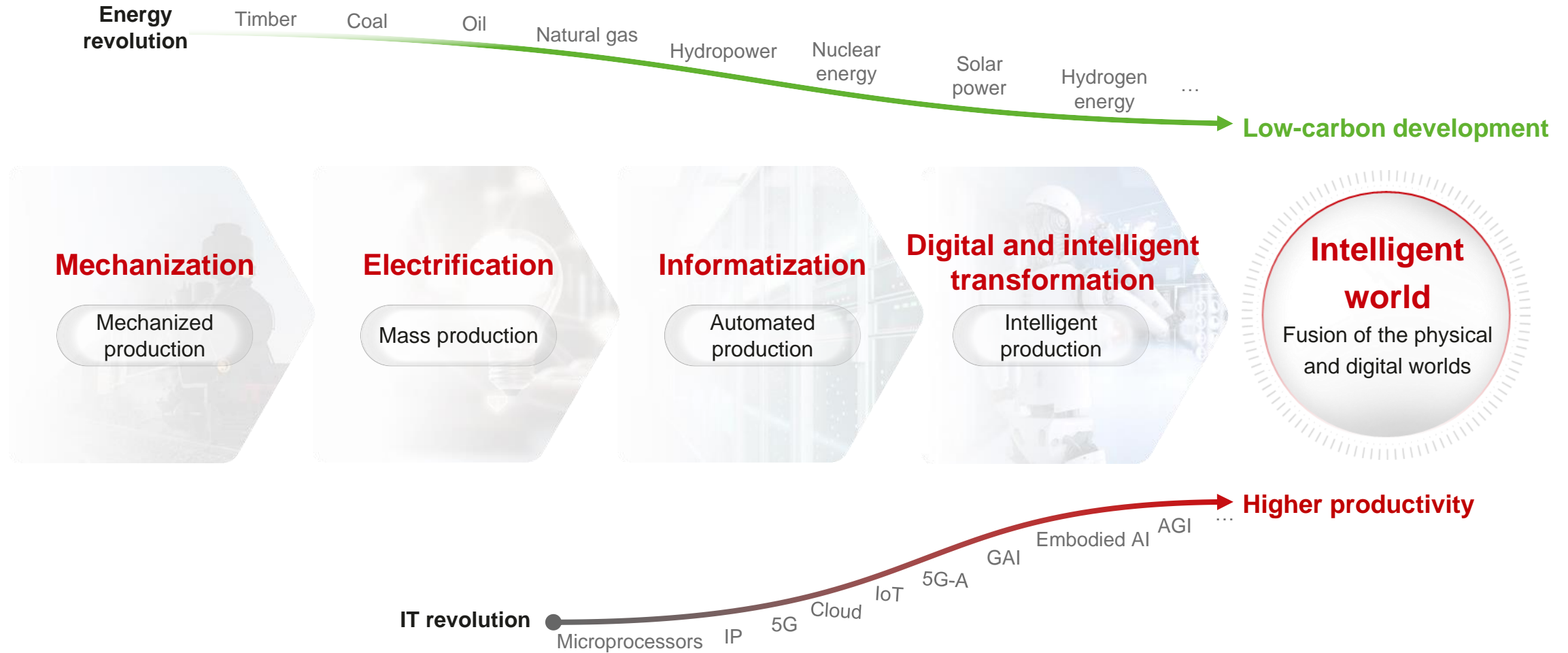
- 1 Huawei Introduction
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Trends

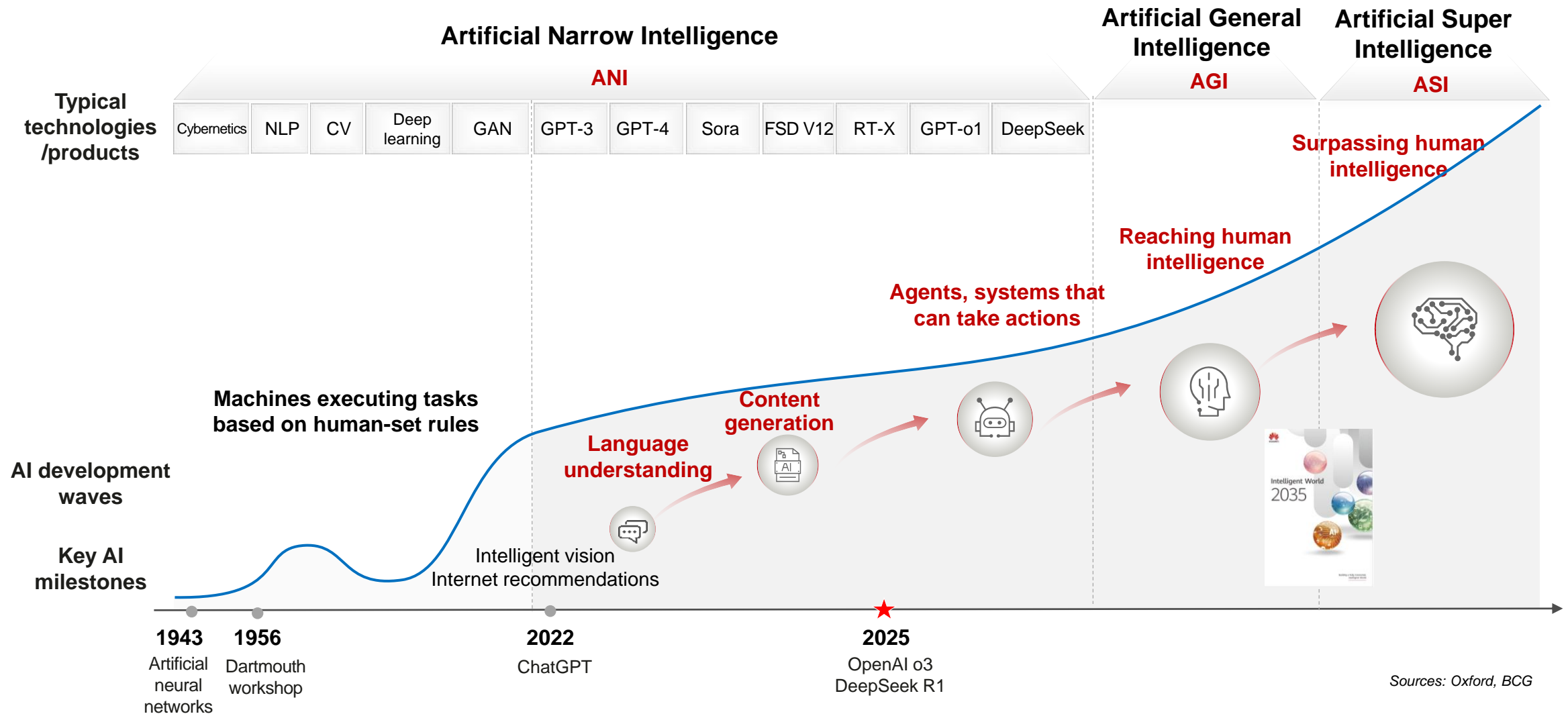
General

Technology

The Fourth Industrial Revolution: Digital and intelligent technologies take productivity to new heights

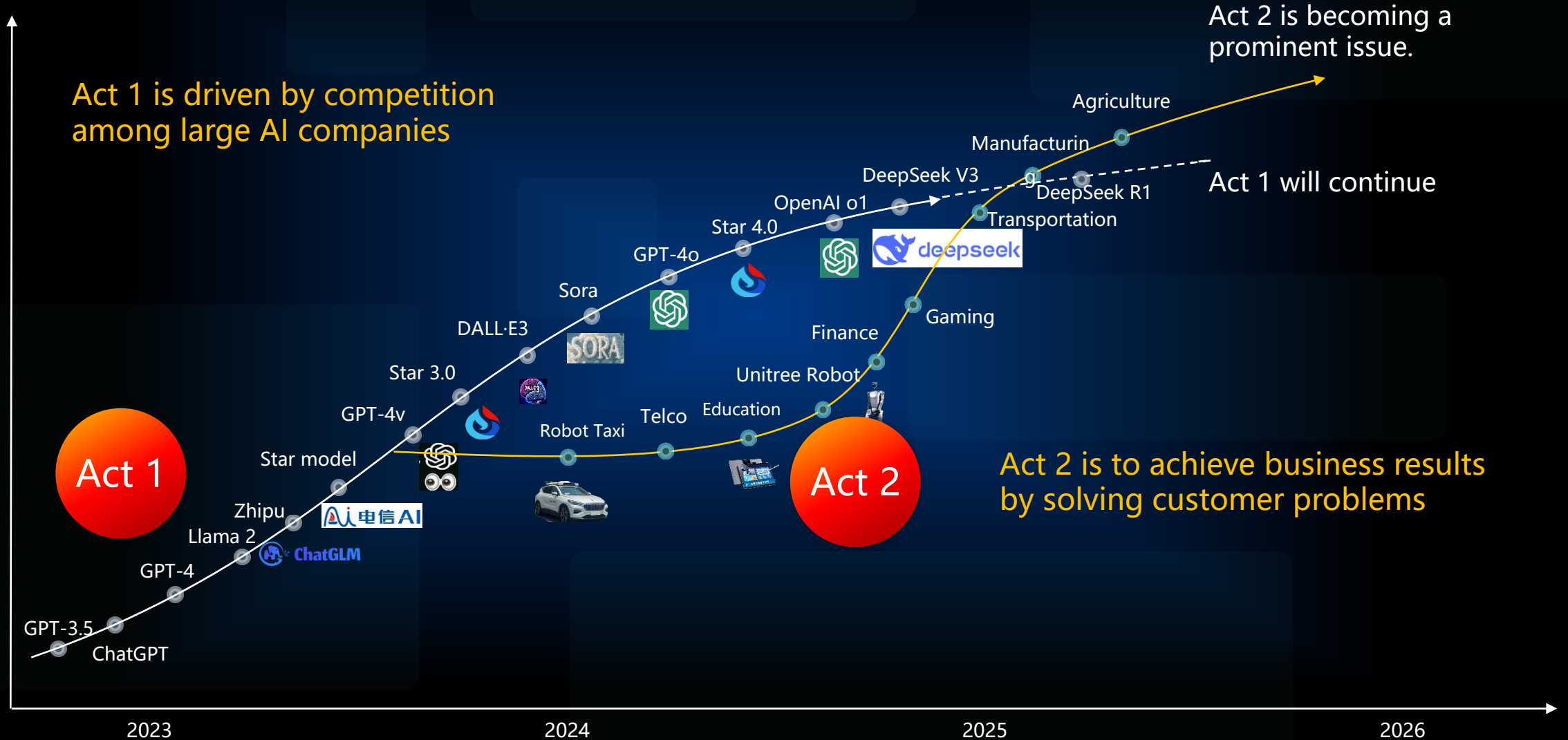


AI: Everything we imagine today is too little for tomorrow



Act 1: Technological Advancement, Shift Toward Customer Value

Act 2: Industry Problem Solving



Huawei AI Strategy : Build Full Stack AI Capability, Leading All Intelligence

AI Governance

Well-being of human, society and environment

AI For Telco

ADN

Lossless DCN

Telecom Foundation Model

AI For Industries

Bridging the Chasm
Between AI and Industry

AI For Consumers

AI content

AI assistant

HarmonyOS

AI For Vehicle

ADS 3.0

Harmony Cabin

Full-stack AI Capability

Ascend

CANN

MindSpore

ModelArts

Research & Innovation

114,000 R&D

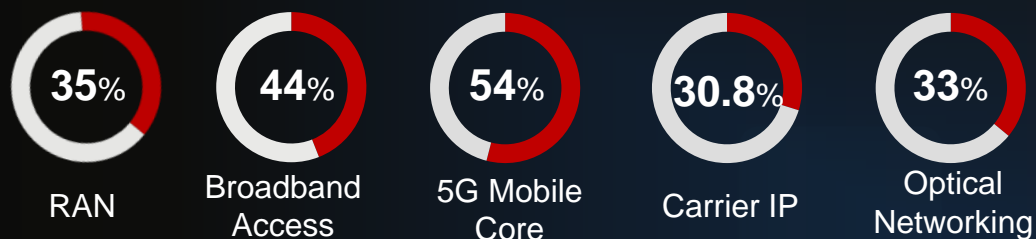
180+ joint labs

Ecosystem



Amplify AI and Build Best-in-class ICT Infrastructure

No.1 Market Share in All Domains



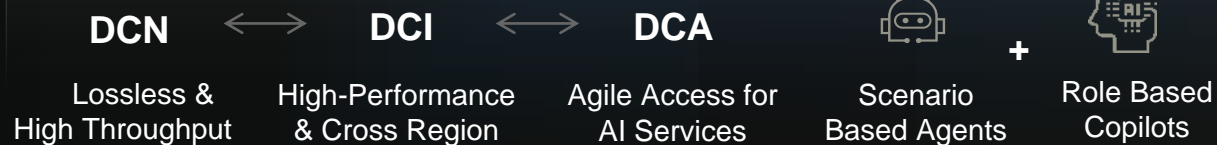
* Source: 3rd party report for 2024Q2~2025Q1

Network for AI

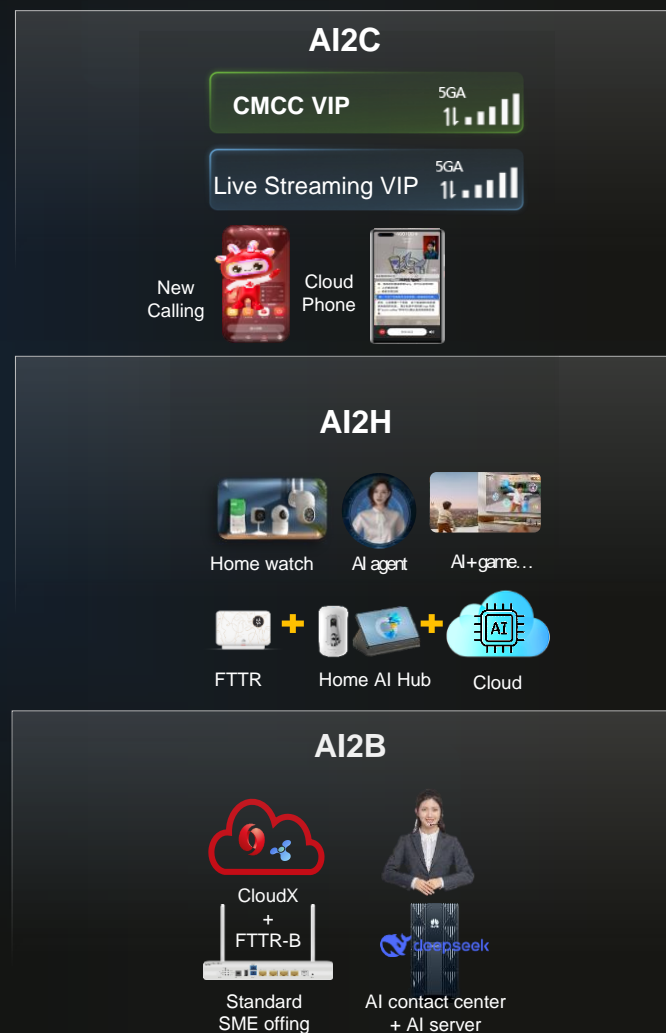
AI-Centric Target Network

AI for Network

Autonomous Driving Network L4

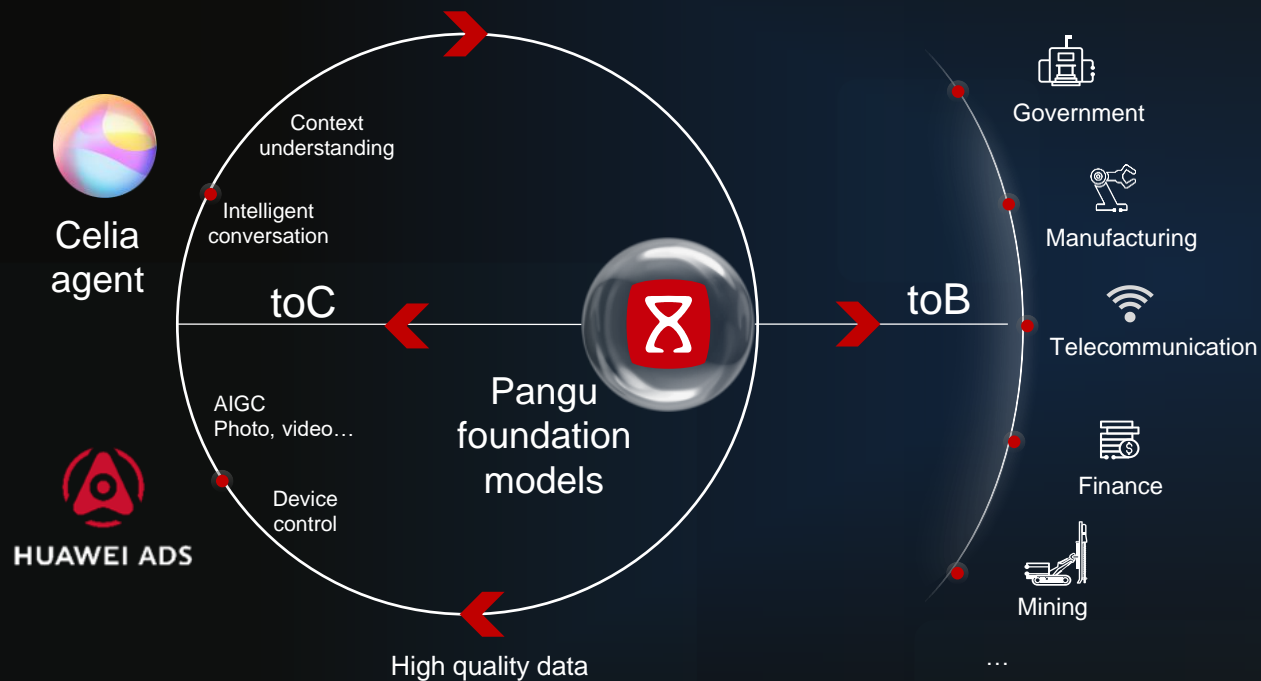


Innovation for better network and services



Huawei Pangu AI LLM Models Enable Industry AI Applications

Build Data Flywheel



Support Partners Enabling Industries



Autonomous driving model:
One-stop service from data
to simulation



High-speed railway model:
From image-only to multi-
modal



Mining model: From manual to
automatic monitoring



Embodied AI: From remote
control to autonomous
decision-making

Using AI to Improve Internal Working Efficiency

Employees
208,000

Offices
1023+

Whiteboards
20,000+

Mini applications
1,800+

Unified Working Interface Office & Marketing Assistant for Everyone

Office
Assistant



Welink
Athena

- **AI Meeting:** Create, Participate...
- **AI Read:** Webpage/PPT/Word file...
- **AI Summarize:** Unread Messages

Marketing
Assistant



Dora

- **Ask for Product Specification**
- **Market Insight:** Business, Network...
- **GTM:** Scenarios, Solution, Cases ...

Fully Automated Reimbursement Financial Agent for the whole process

Receipt
OCR*

Key
information
extraction

Verify bills
authenticity

Associated
with Orders

2s
for recognizing
per Receipt

98%
Identification
Accuracy

100%
Authenticity
Accuracy

100X ↑
E2E
Efficiency

*OCR: optical character recognition

Using AI to Improve Logistics Accuracy & Efficiency, Prevent Extreme Risk

170+
Countries

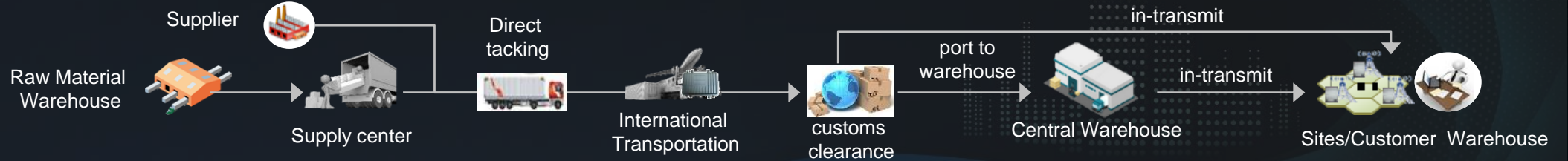
3000+
Employees

1000+
Subcontractors

200+
Central Warehouse Nodes

75k+
Logistics Routes

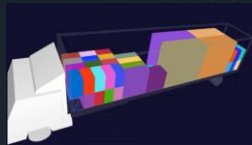
physical
supply
chain flow



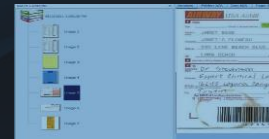
AI
Scenarios



Demand forecast



Simulated Loading



Customs risk identification



Plan transportation routes

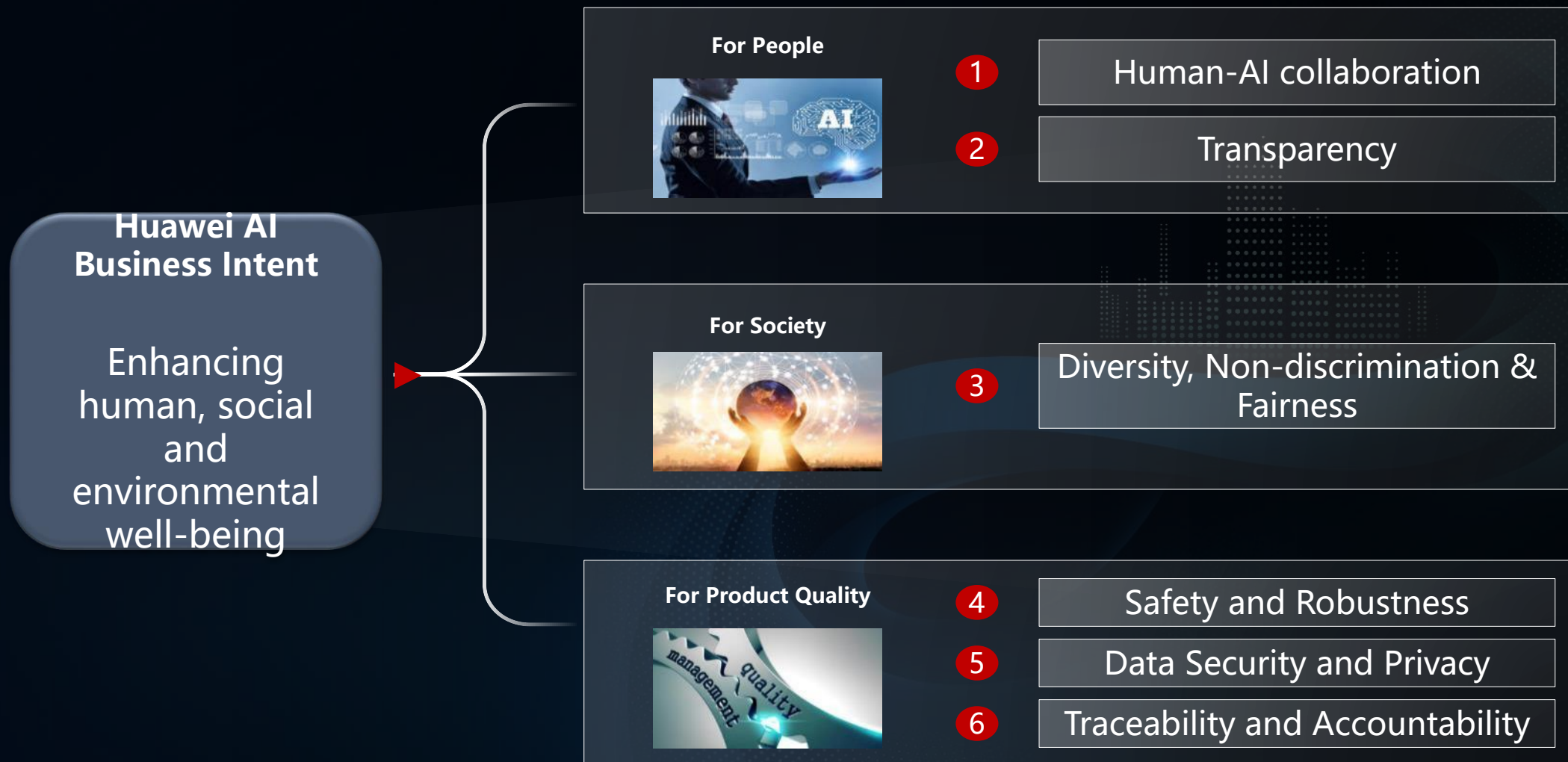
5% ↑
packing rate

- Volume Estimation
- Counterweight Calculation
- Loading Suggestions

0 impact from
Suez Canal Blockage

- Cargo Visualization
- Best route from millions of options
- Emergency Replenishment

Huawei: AI Business Intent and Governance Principles



Green and low-carbon development: From global consensus to global action

Low-carbon power generation



- **PV**: Installed capacity 16% → **38%**
- **Energy storage systems (ESSs)**: 96 GWh/year → **516 GWh/year**

Sources: IRENA, BNEF, 2023 → 2030

Mobility electrification



- **EVs**: Penetration rate 16% → **60%**
- **Chargers**: 13 mn → **128 mn**

Sources: IEA, EVTank, Huawei Digital Power MI, 2023 → 2030

ICT green transformation



- **Data centers**: Carbon emissions ↓**53%**
- **Mobile networks**: Carbon emissions ↓**45%**

ITU L.1470 & GSMA Setting Climate Targets, 2020 → 2030

PV + ESS technology trends

Smart Renewable Energy Generators will accelerate PV adoption, making it the main energy source.

All-scenario grid forming will become ubiquitous.

EV technology trends

High-voltage ultra-fast EV charging will become increasingly popular.

Comprehensive ultra-fast charging infrastructure is the future.

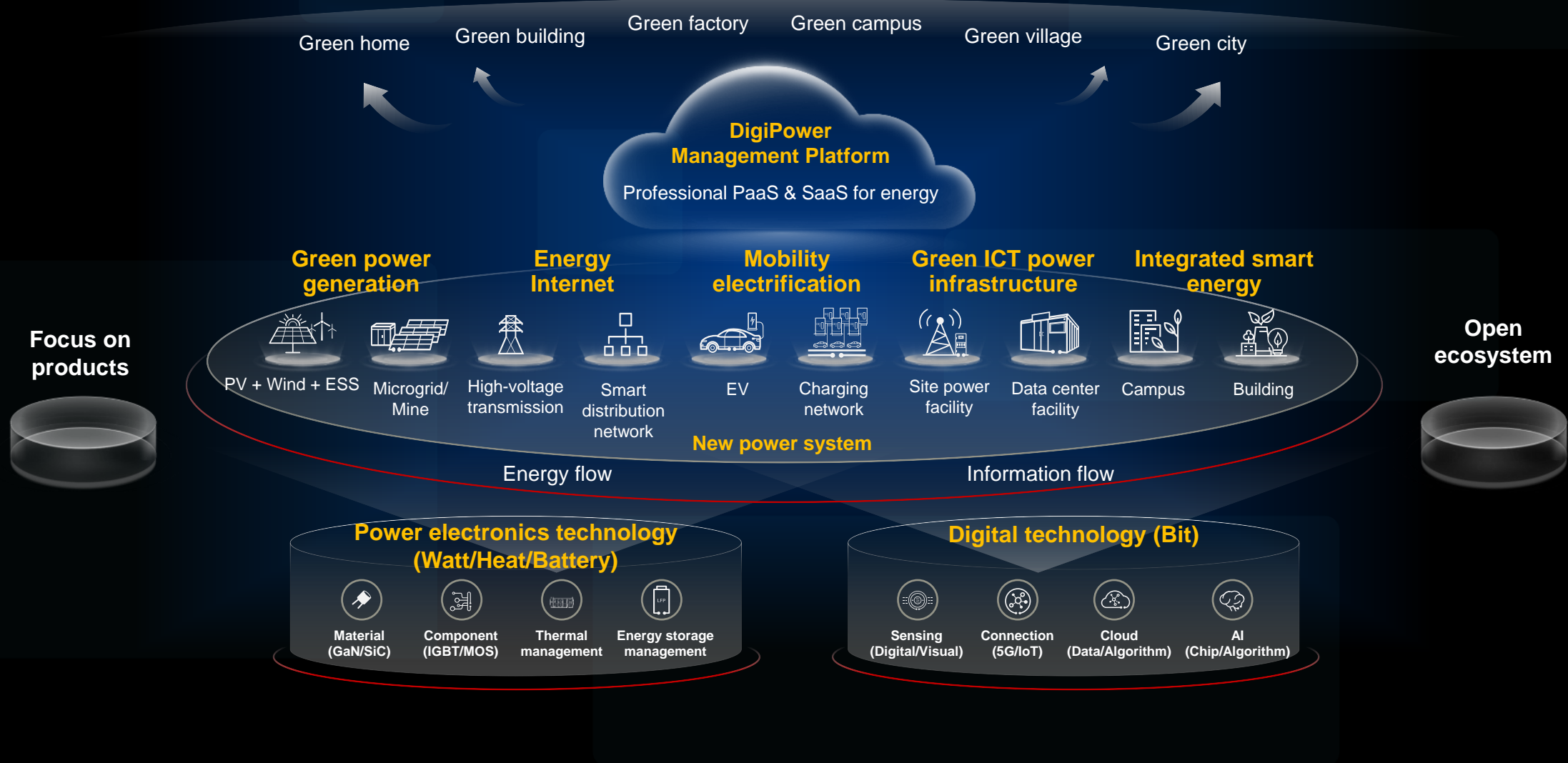
ICT power infrastructure technology trends

Reliability is the primary core requirement of intelligent computing data centers (DCs).

Operators will transition from being energy consumers to prosumers.

Integrate digital and power electronics technologies, develop clean power, and enable energy digitalization to drive energy revolution for a better, greener future

Evolving from high carbon to low carbon, and finally to net-zero carbon



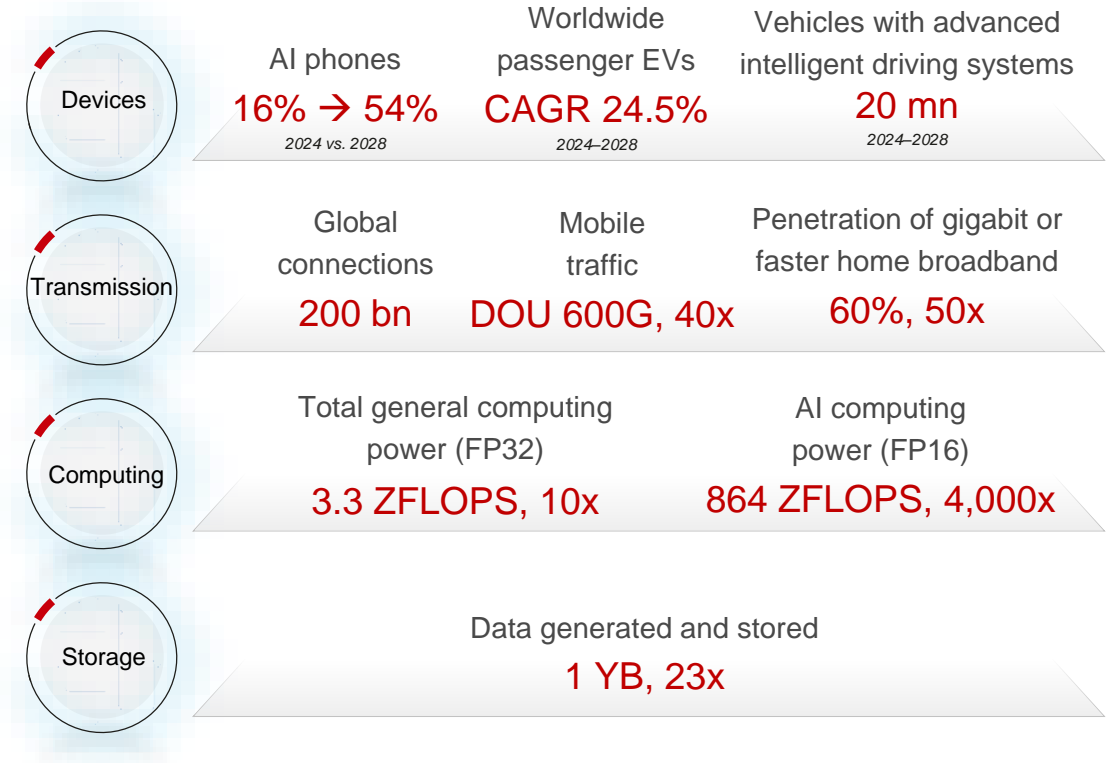
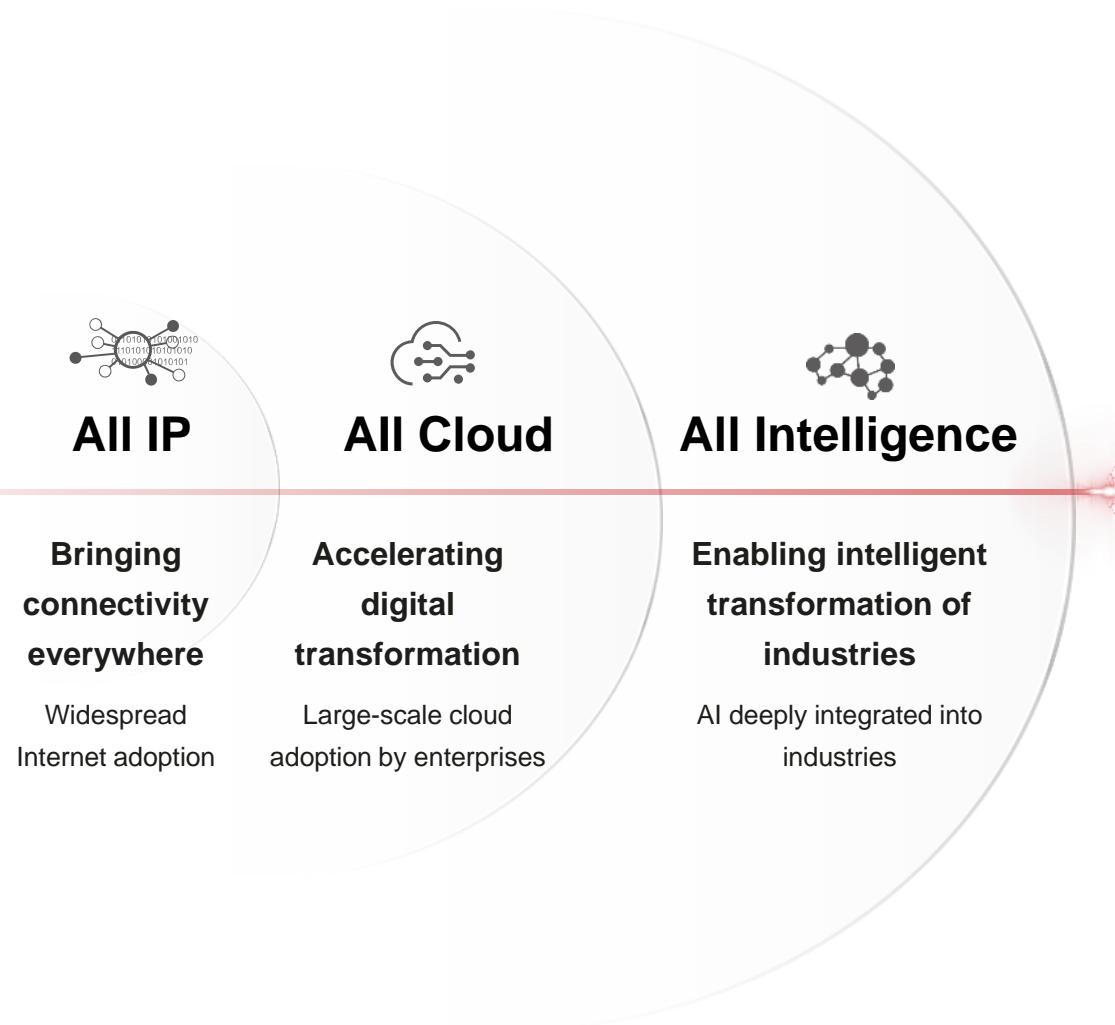
Trends

General

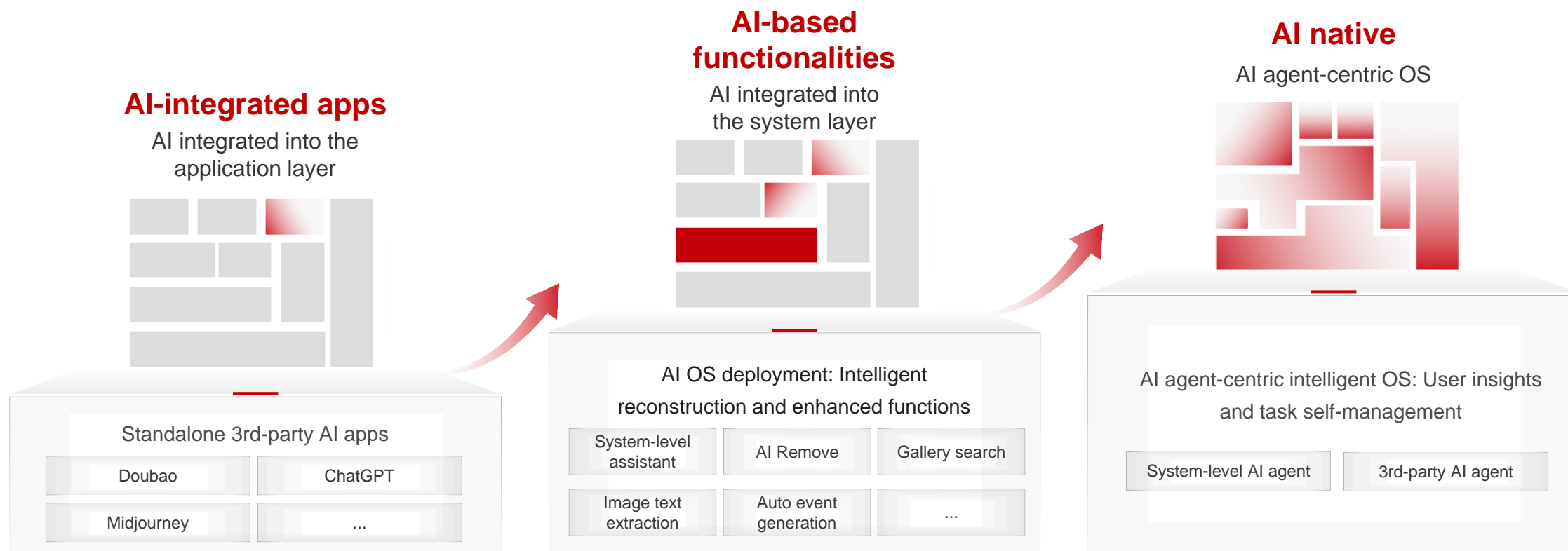
Technology

Paving the way for All Intelligence

AI is driving explosive growth of computing power, data, and networks



Deepening AI integration enhances device scenarios and experience



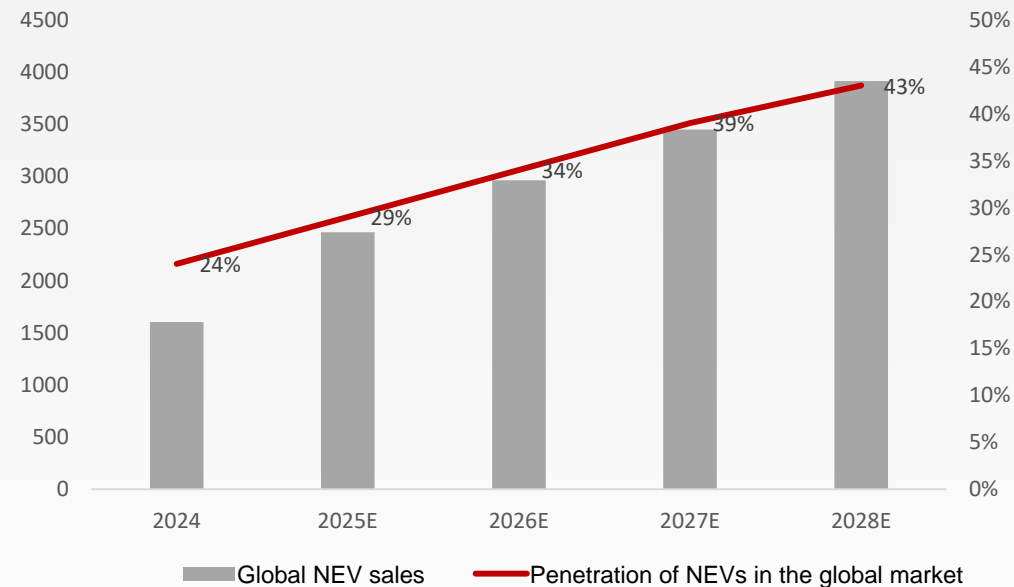
Using cutting-edge AI technology, we are pioneering intelligent collaboration and human-machine interaction, breaking down device and application barriers to create an interconnected, human-centric smart service experience.

Rapid growth in the NEV industry, with a clear trend towards intelligence

The CAGR of the global new energy vehicle (NEV) industry will reach 24.5% in the next four years

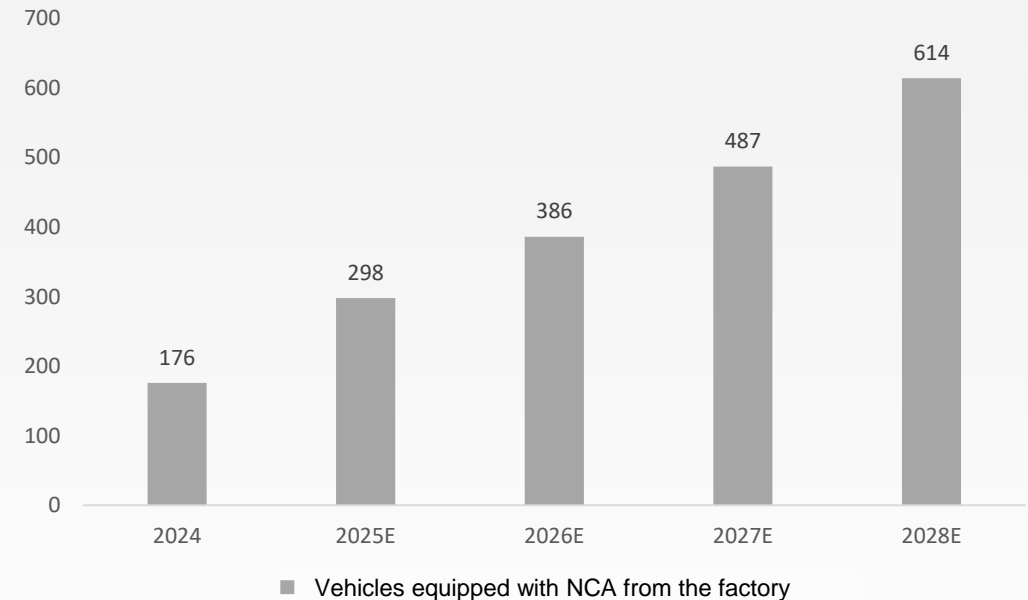
Advanced intelligent driving features like Highway and City NCA are gaining popularity

Unit: 10,000 vehicles



- The global market for NEVs is projected to hit **40 mn units** by 2028.
- The Chinese market is predicted to have 17.5 mn NEVs by 2028, a penetration rate of over **70%**.

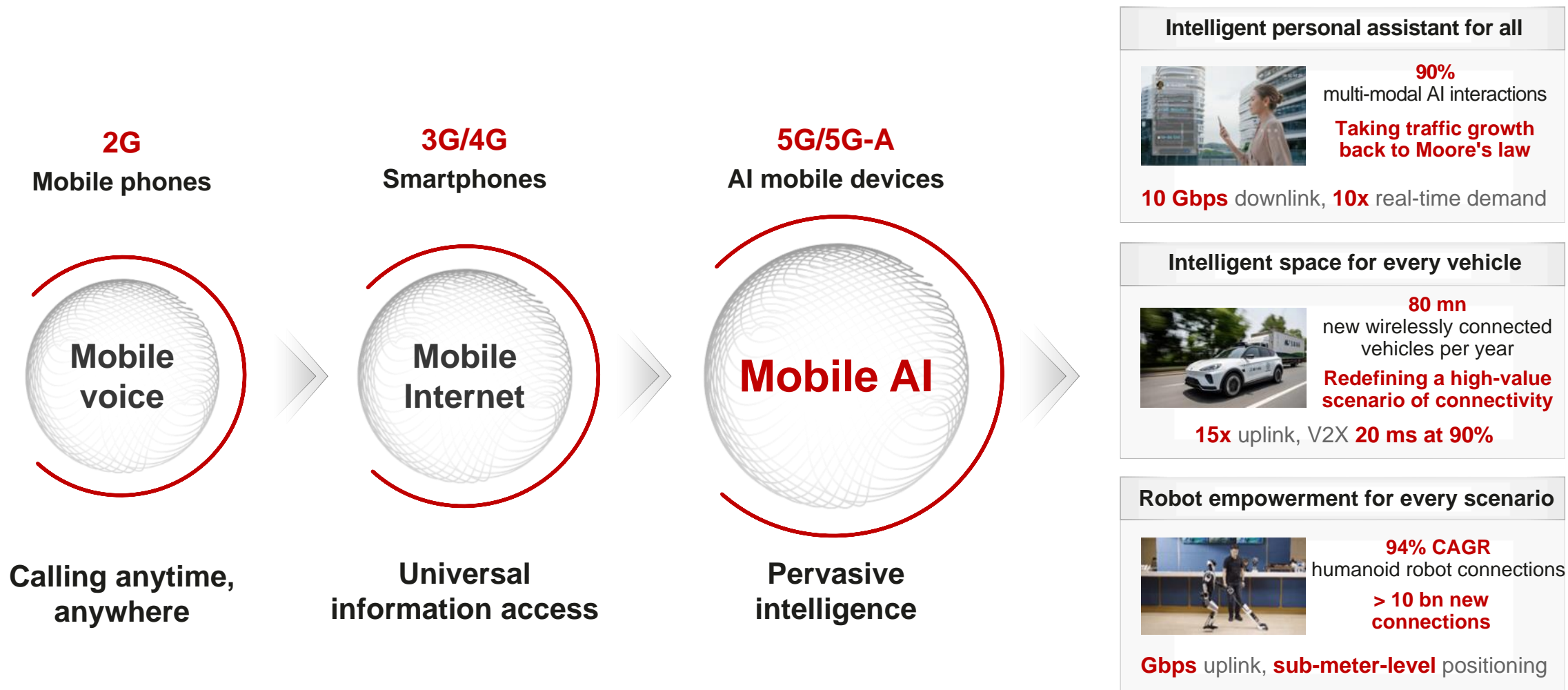
Unit: 10,000 vehicles



- **65%** of NEVs priced above CNY200,000 now have L2+ automation.
- Between 2024 and 2028, a total of **20 mn NEVs** will feature higher levels of automation.

Sources: Canalys, Gasgoo, public information, ChinaEV100, etc.

The move from mobile Internet to mobile AI is revitalizing society

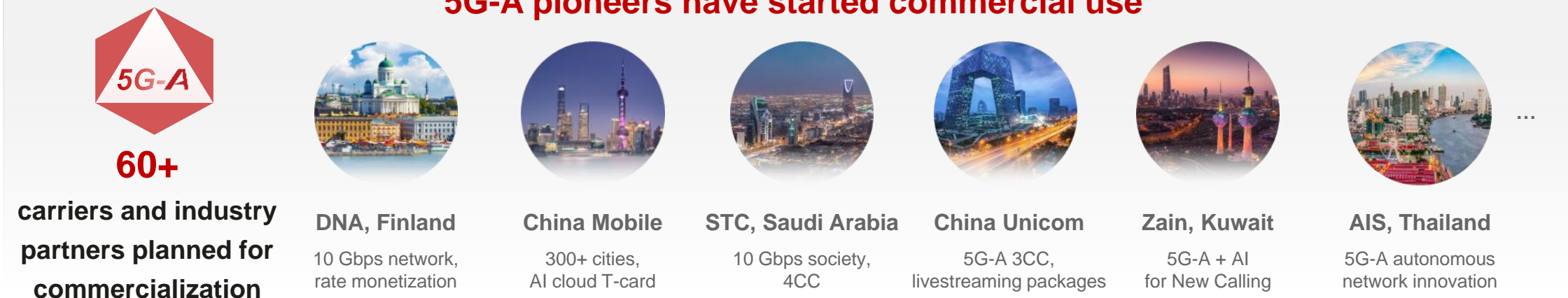


The matured 5G-A industry is moving from vision to commercial use

The end-to-end 5G-A industry is ready

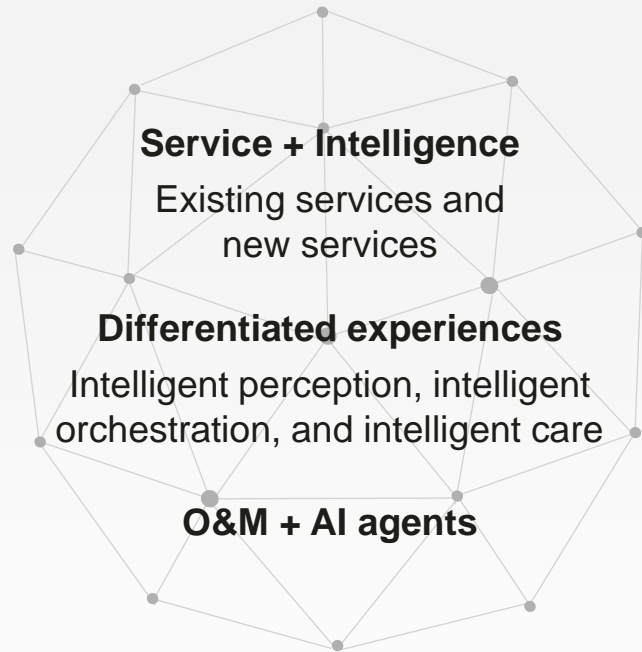


5G-A pioneers have started commercial use



5G-A intelligent core network: Integrating AI with core network, accelerating service innovation for carriers

Integrating AI with core network transforms the industry



5G-A + intelligence realize industry value

One-stop AI services

Single-modal → Multi-modal, improving user experience and efficiency

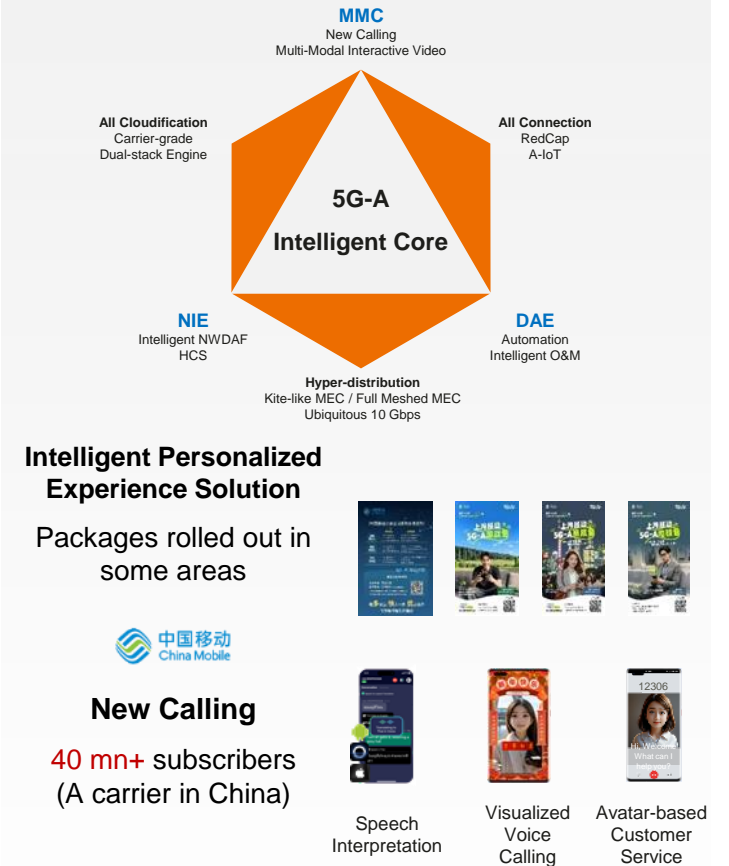
Experience monetization

Homogeneous experience → Differentiated experiences, reshaping business models

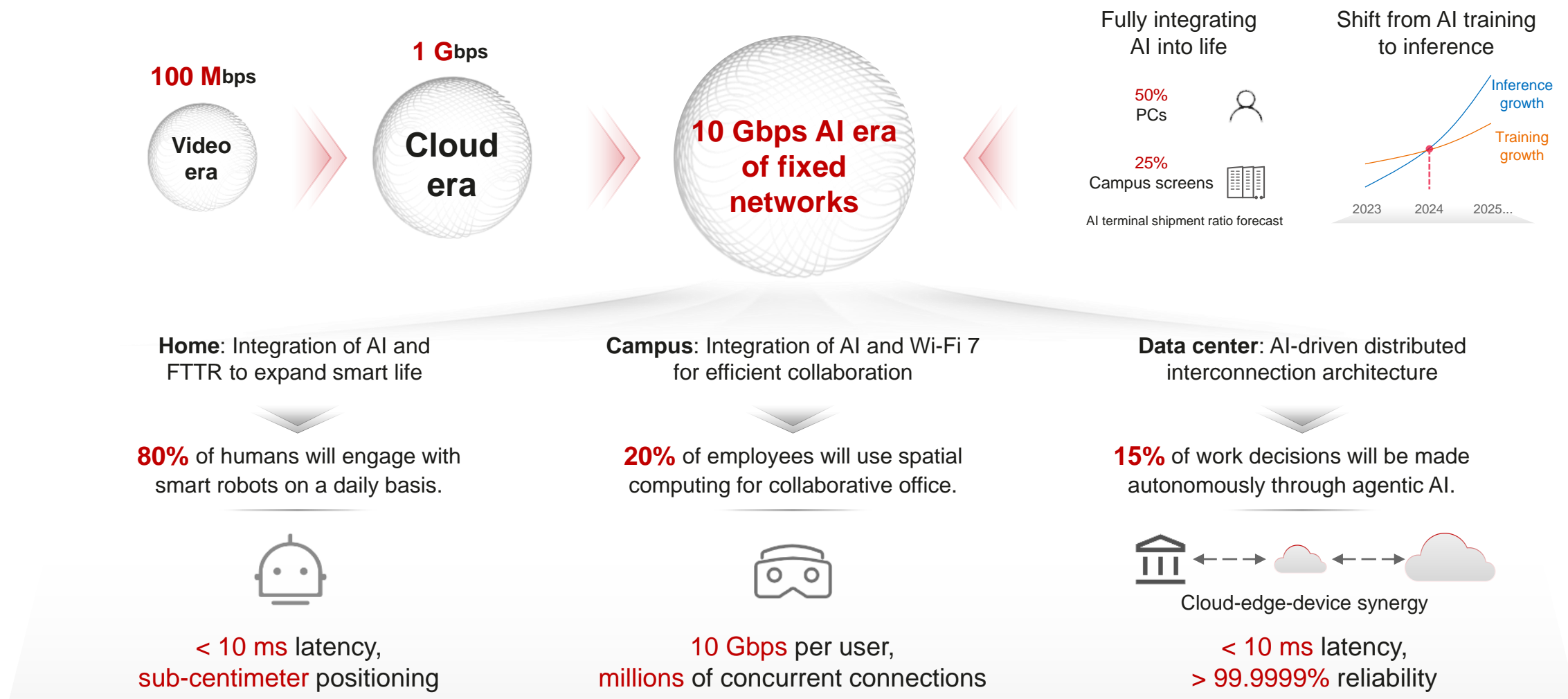
Intelligent O&M

Manual orchestration → Automatic orchestration, improving quality and efficiency with digital employees

5G-A intelligent core network accelerates service innovation



Moving towards the 10 Gbps AI era of fixed networks



Sources: Gartner's Top 10 Strategic Technology Trends and Huawei MI

F5.5G industry is advancing, and 10 Giga business is in full swing

Growing F5.5G industry consensus

Industry generations and standards



F5G-A R3
released

IOT-2030
proposed

National industry policies

China's all-optical industry policies



10 Gbps Optical
Network Pilot



City Computing
Network Initiative

Industry benchmarks
outside China



10 Gbps Society,
10 Gbps City

Industry standards



POL used in industries
like construction,
education, and healthcare



fgOTN adopted as a new
standard for electric power
communications

Continuous Giga prosperity

All-optical coverage
acceleration

1.1 bn (8.0%)
FTTH coverage rate



Bandwidth rate
upgrade

220 mn
Number of gigabit
broadband users



All-optical networks promote
industrial intelligence

40+
F5G industry
scenarios



9,000+
F5G all-optical
campuses



Fast-growing 10 Giga

Global carriers accelerate 10G network deployment

60+
carriers released
10G packages

35 mn+
FTTR home
users

10+
1 ms metro transmission
network benchmarks

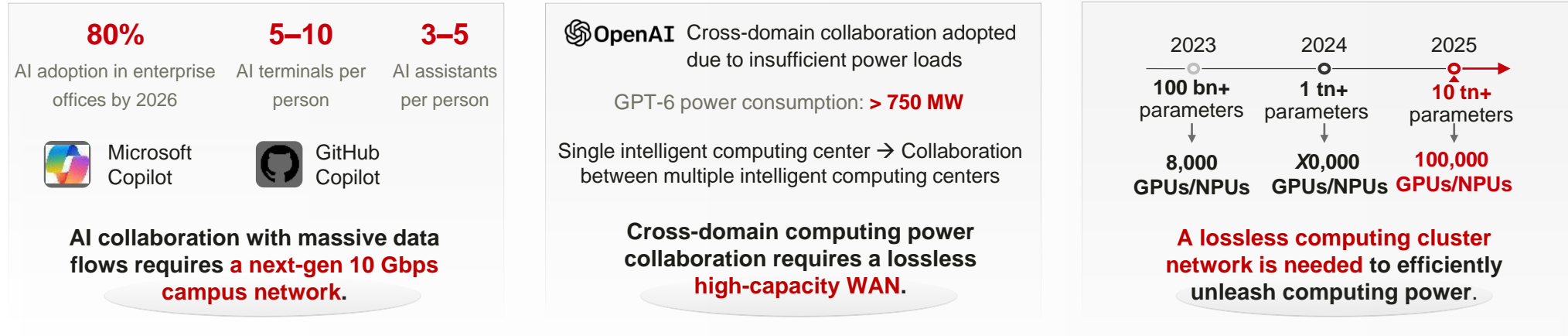
110+
50G PON
commercial sites

210+
400G/800G
commercial sites

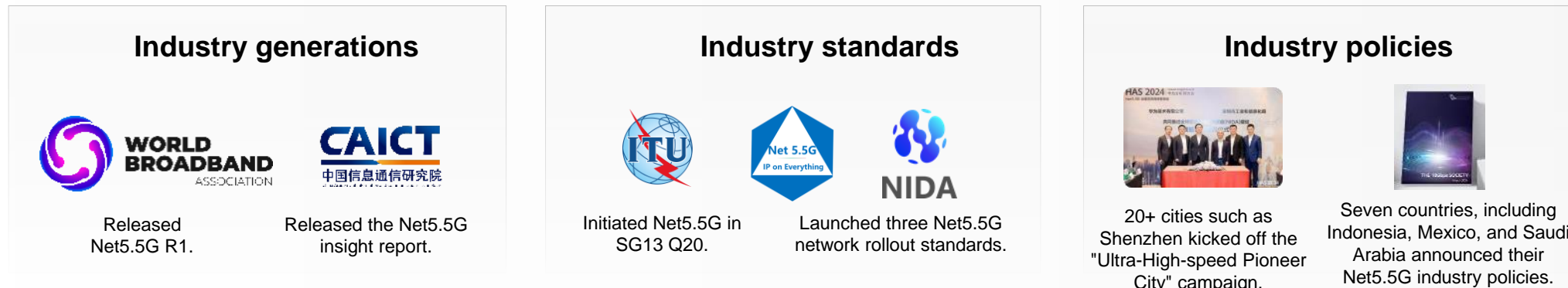
Source: Global industry data by the end of 2024

Net5.5G grows in popularity in the industry and provides elastic, reliable connections for the 10 Gbps AI era of fixed networks

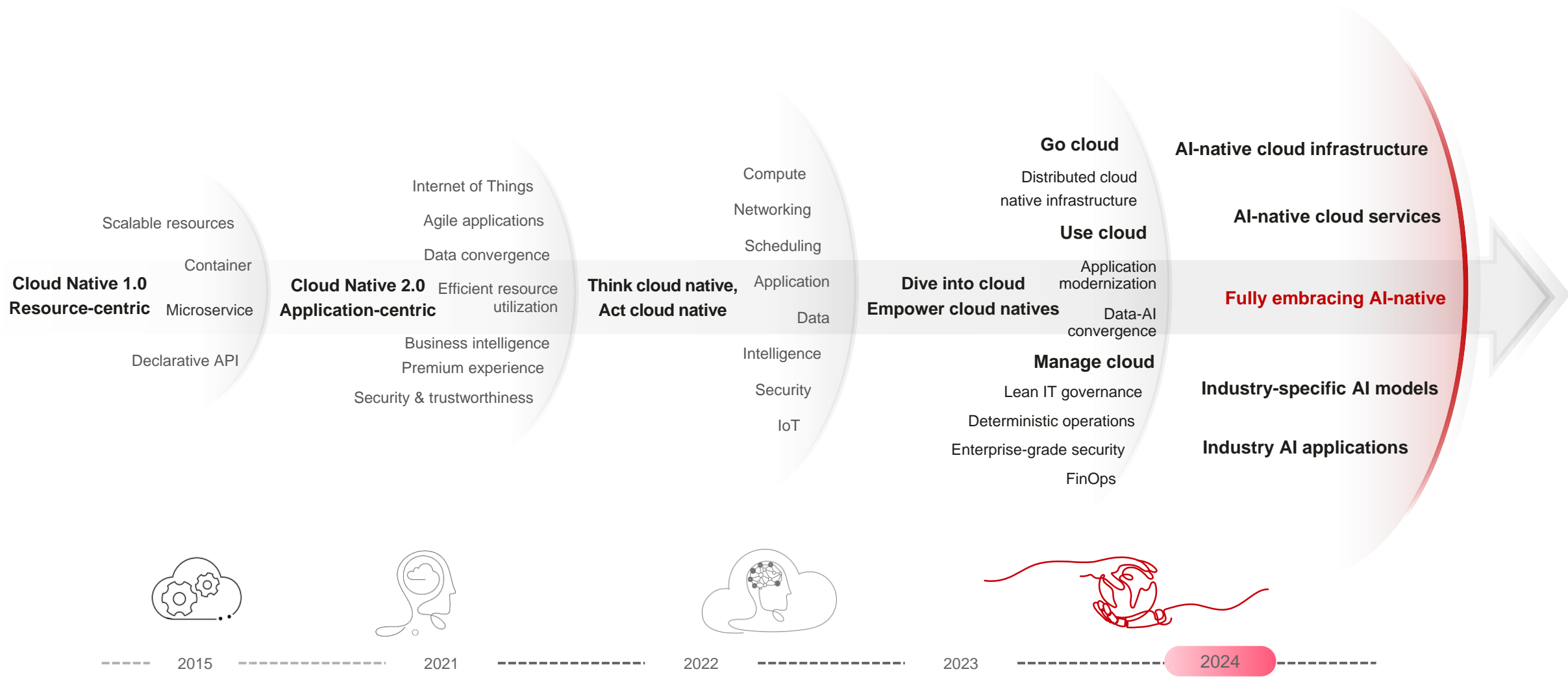
Net5.5G, a next-gen data communication network, is the cornerstone of the 10 Gbps AI era of fixed networks.



Net5.5G industry consensus has been further enhanced.



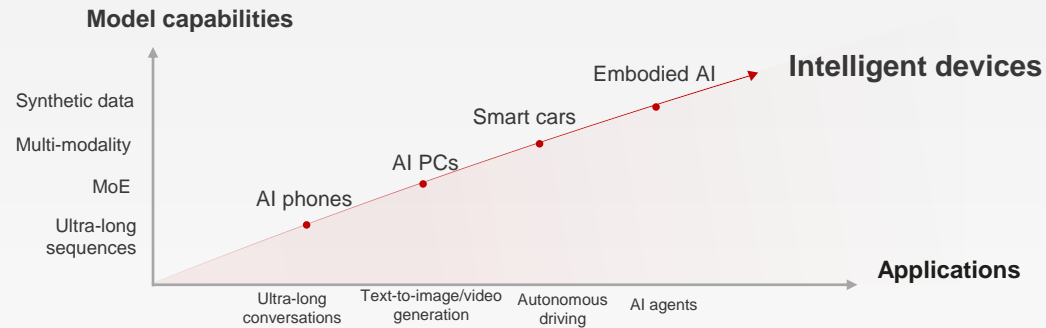
Cloud computing: Act AI-Native to evolve towards intelligence



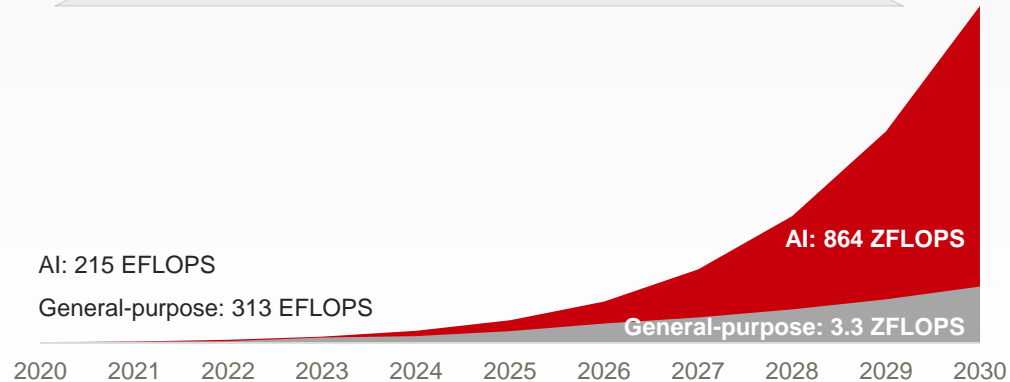
Explosive growth in computing power is driving foundation model development

Explosion in computing power with AI computing as a major increment

Computing power enhances foundation models, which accelerates AI adoption



10x growth of general-purpose computing power and 4,000x growth of AI computing power



Source: *Computing 2030* by Huawei

Model development enabled by breakthroughs in AI computing clusters

Models are scaled up to 10-trillion parameters with exponential growth in compute, network, and storage needs

Models with 100-million parameters

Single PFLOPS servers

Intra-node interconnection

TB access server drives

Compute

Network

Storage

Models with 10-trillion parameters

EFLOPS AI clusters

Supernode interconnection

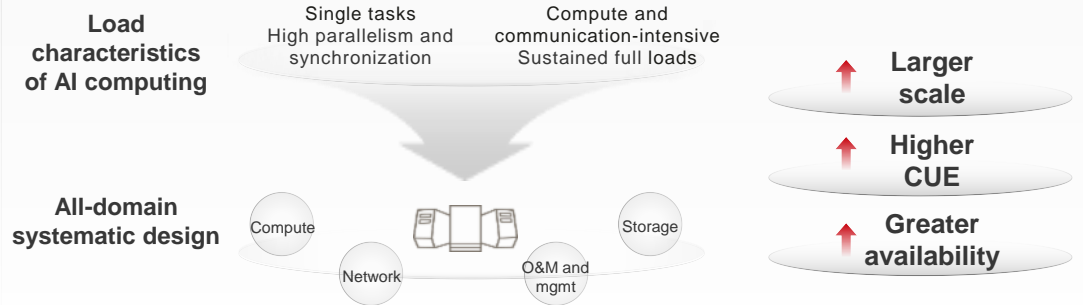
PB high-concurrency tiered storage

↑1,000x

↑100x

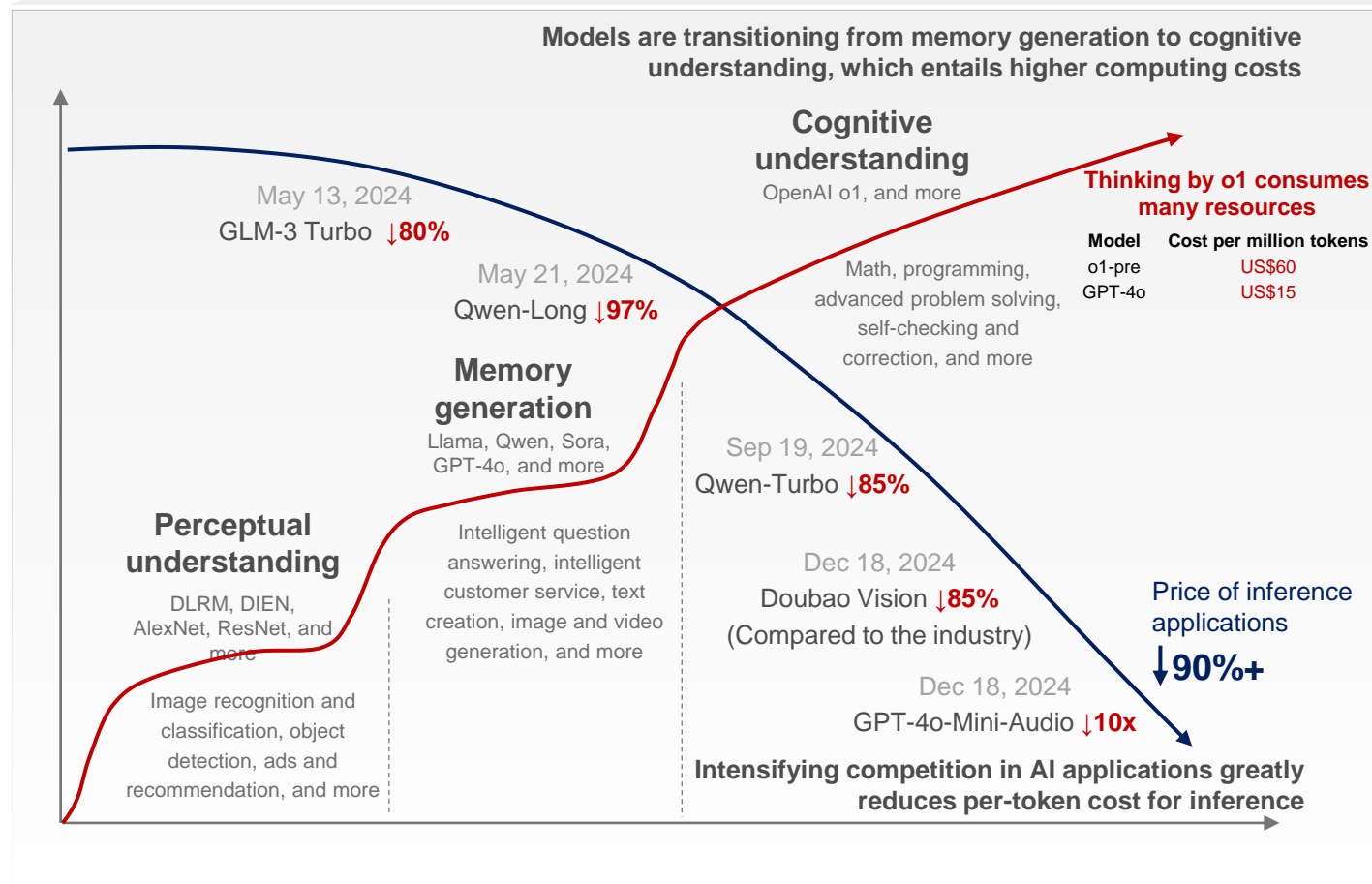
↑1,000x

From node stacking to DCaaS: Cross-domain collaboration on AI clusters for computing power breakthroughs



Inference efficiency and cost are key competitive factors for AI

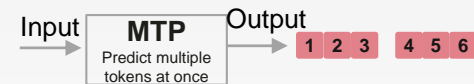
The widening gap between the cost of AI inference and the price of each token makes high efficiency and cost-effectiveness critical



Lower inference cost

Architecture innovation

Multi-token prediction (MTP)



Multi-token prediction at once multiplies inference efficiency

Deployment optimization

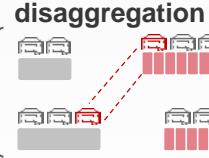
PD disaggregation

PD hybrid deployment



■ Prefill ■ Decode

PD disaggregation



Disaggregation of compute-intensive and storage-intensive tasks improves resource utilization

Digital and intelligent transformation drives up the value of mass data, requiring future-proof storage power

80%

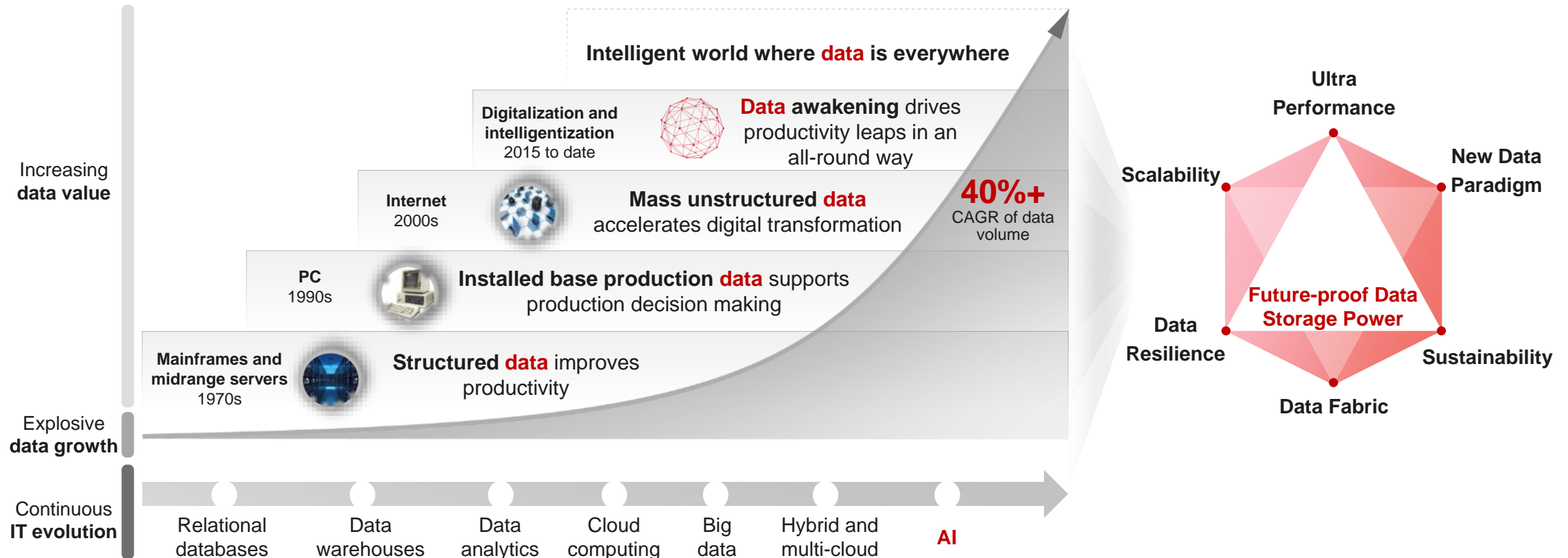
Of historical data is awakened
by large AI model training

2x
in 2 years

Data volume growth thanks to
intelligent industry upgrades

11
seconds

Time between ransomware attacks,
with AI lowering the attack barriers



Thank you.

把数字世界带入每个人、每个家庭、
每个组织，构建万物互联的智能世界。

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

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