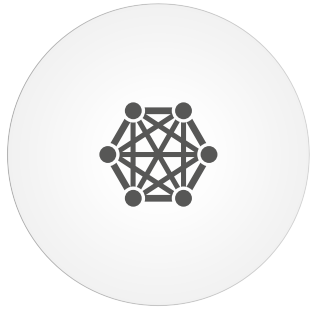


Tendencias Tecnológicas sobre Conectividad Universal



Huawei's value propositions

Building a fully connected, intelligent world



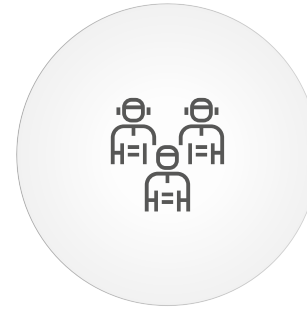
Ubiquitous Connectivity

- Wireless network
- Data communications
- Optical transport network
- Optical access network
- Core network



Pervasive Intelligence

- Enterprise Intelligence (EI)
- HiAI
- Autonomous driving network (AND)
- Edge intelligence
- Intelligent computing (Kunpeng computing, Ascend computing, and cluster computing)
- Intelligent data storage
- Intelligent collaboration
- Intelligent security



Personalized Experience

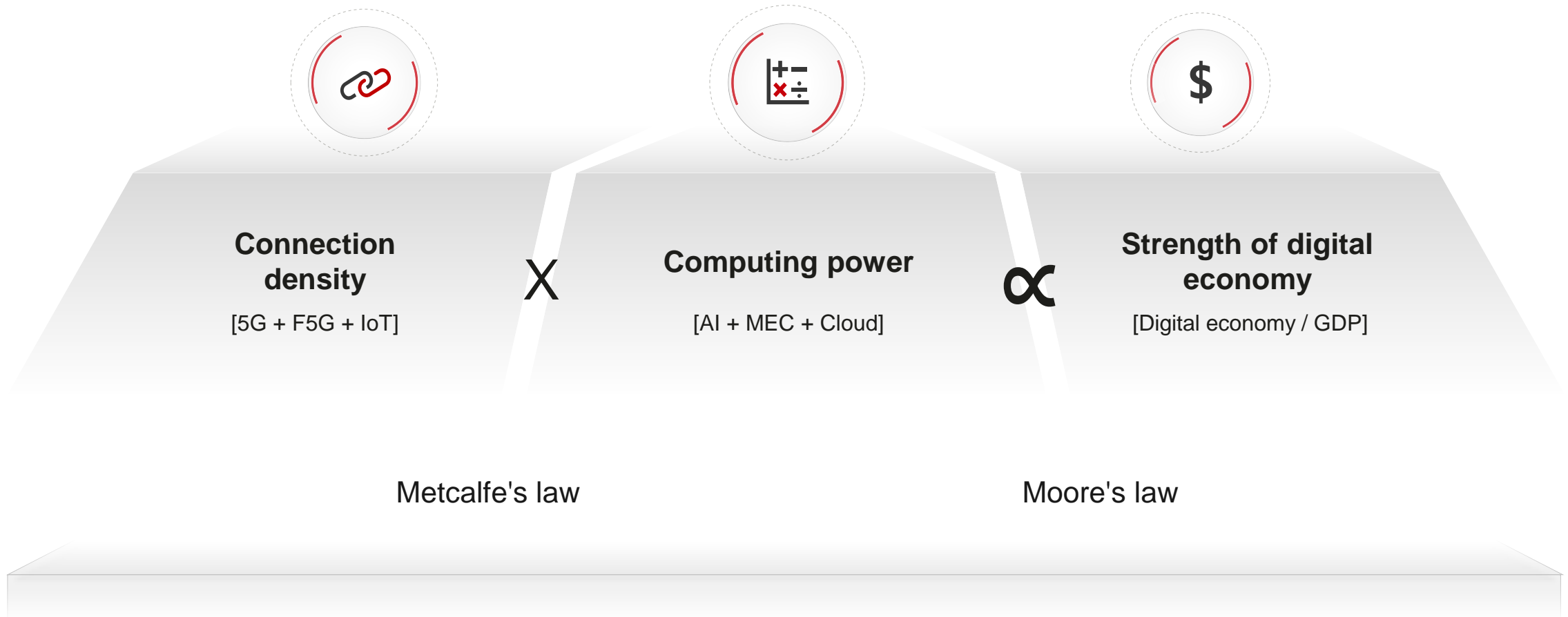
- All scenarios: Personal, car, home, and office
- Intelligent experience
- Chip-device-cloud synergy
- Intuitive interaction
- Multi-level security: Chips, devices, and cloud



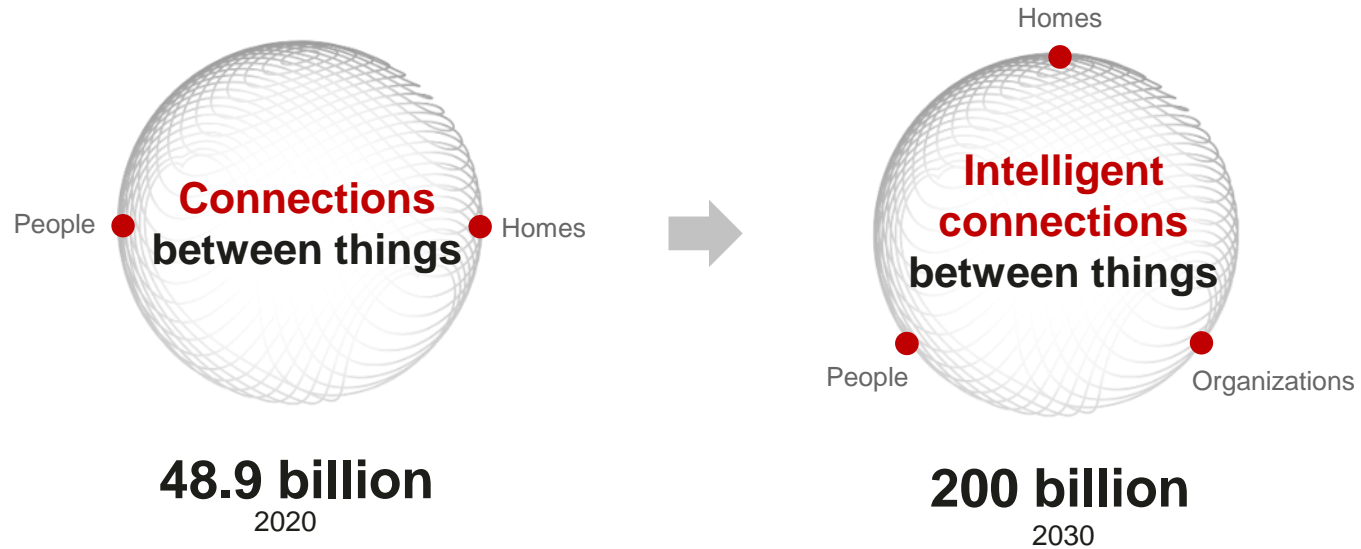
Digital Platform

- Open, trusted cloud platforms (public cloud + Huawei Cloud stack + edge cloud)
- ICT infrastructure platform with device-network-cloud collaboration

Connectivity and computing: Bedrock of the digital economy



From connections to intelligent connections



Metcalfe's law

$$\text{Connectivity value } V = k \times N^2$$

(K: Value coefficient; N: Number of connections)

The new Metcalfe's law: Connectivity is productivity

$$\text{Connectivity value } V = \sum_{\text{Slice 1}}^{\text{Slice n}} \frac{k \times Bw \times N^2}{T}$$

(k: Value coefficient; Bw: Bandwidth; T: Latency; N: Number of connections; 1->n: Network slice)

Sources: Huawei GIV, ARM

Electric power: Digital transformation is key to building new power systems with five features needed for carbon neutrality

High proportion

Clean energy supply

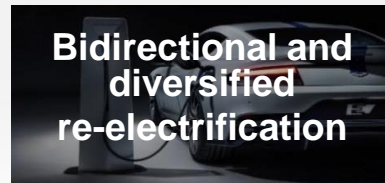


Highly distributed power electronics

Generation:
Environmental pressure

High interactivity

Electrified energy consumption

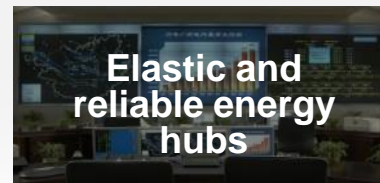


Bidirectional and diversified re-electrification

Load:
Social pressure

High elasticity

Energy networks with flexible resource configurations

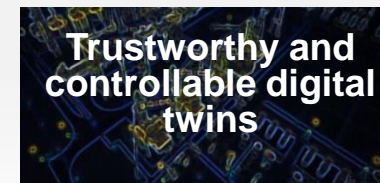


Elastic and reliable energy hubs

Network:
Security pressure

High convergence

Digitally enabled energy systems

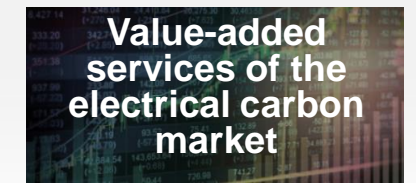


Trustworthy and controllable digital twins

System:
Transformation pressure

Low cost

Low-carbon energy markets



Value-added services of the electrical carbon market

Market:
Operating pressure

New power systems that primarily rely on new energy

Traditional power systems

High inertia



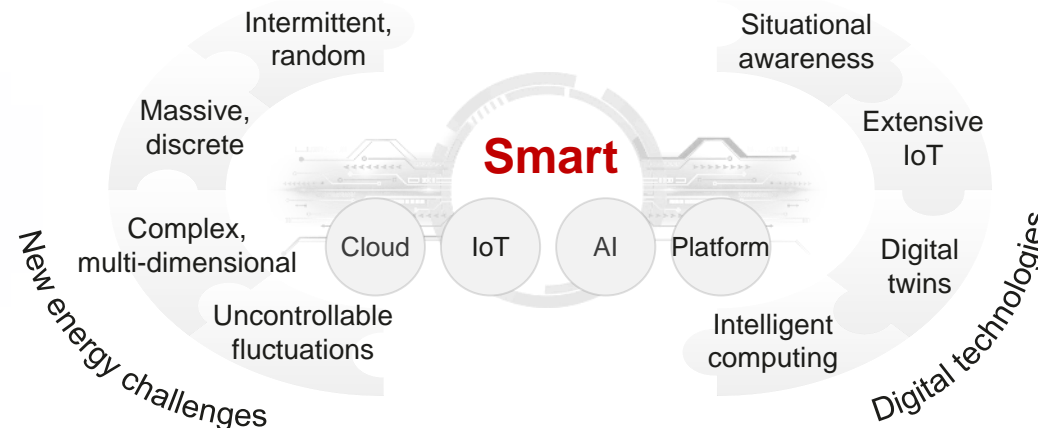
Thermal power Nuclear power Hydropower

High certainty



Stable load Weak fluctuations Weak randomness

Real-time, dynamic, balanced



New power systems

Low inertia



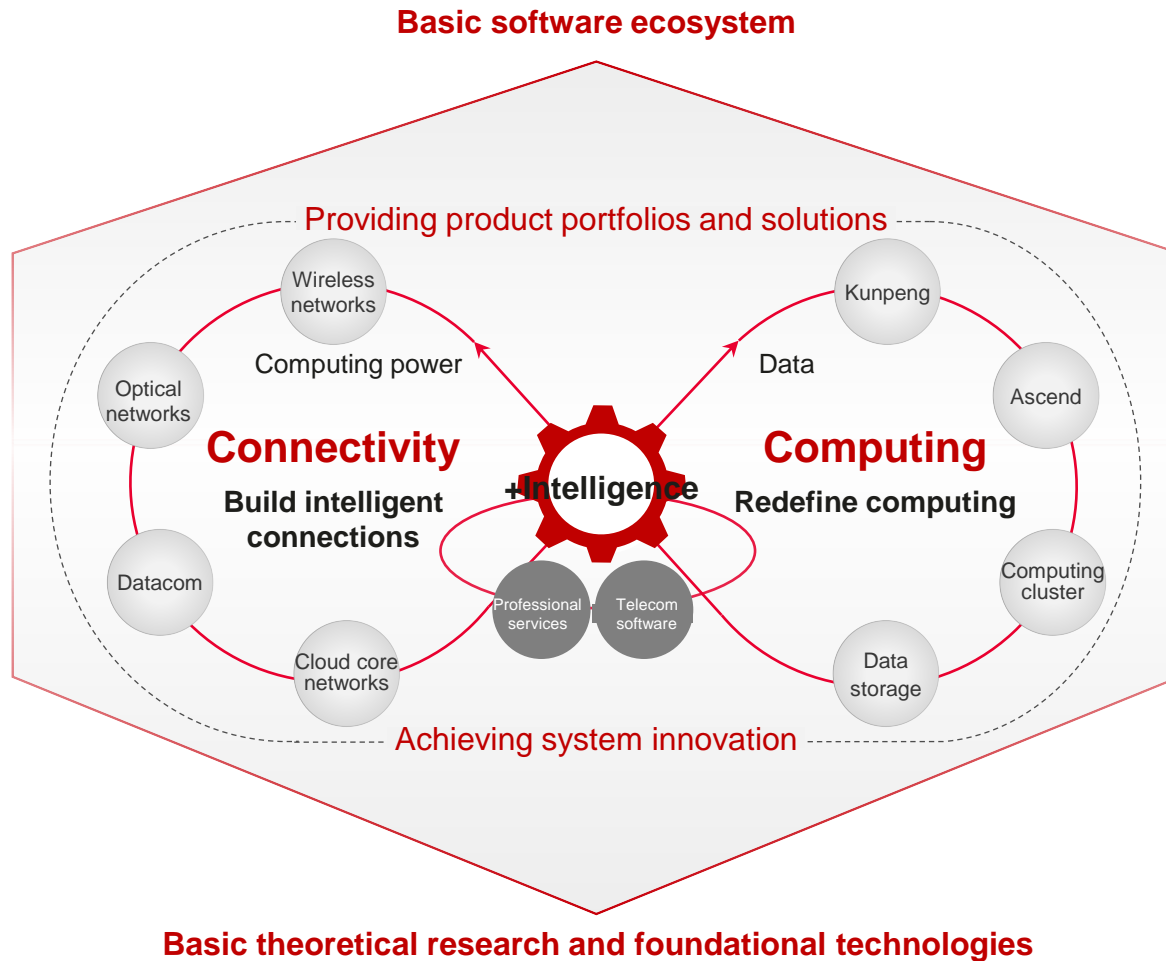
Wind power Solar

High uncertainty



Elastic load Highly distributed
Drastic fluctuations

Huawei's ICT infrastructure strategy: Build intelligent connections and redefine computing to achieve system-level excellence and open leadership



Connectivity + Computing

Build intelligent connections and redefine computing

System-level excellence

Invest in basic theoretical research and foundational technologies and create a basic software ecosystem. Achieve innovation in multiple dimensions (e.g. platform and architecture) to maintain system-level competitiveness and leadership.

Open leadership

Focus on standards and technological innovation to continuously lead the connectivity industry. Build a new computing ecosystem by providing open hardware, making software open source, empowering partners, and nurturing talent

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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