## **Guo Ping**

**Rotating Chairman** 

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### Digitalization



## Innovating ICT theories and architectures to support the sustainable development of the digital economy





#### Overcoming energy efficiency bottlenecks with ICT

Further digitalization poses carbon emission pressure



4D data for 147 million km<sup>2</sup> of the earth's surface

470 ZB of data4.3 billion tons of CO2



State Grid-Shandong: 600 Million kWh of green electricity 590,000 tons of CO<sub>2</sub>



### Continued innovation for new vitality in the digital economy

Connectivity density

Computing power

Digital economy's strength

[5G+F5G+loT]

[AI+MEC+Cloud]

[Digital economy/GDP]



#### Digital economy's vitality



Increasing strategic investment into E Com foundational technologies

Working with partners to continuously Ô create value for customer



### Reshaping 3 areas of the ICT industry



Fundamental theories



Architecture



#### Restructuring fundamental theories: more and beyond Shannon





#### Reshaping system architecture: cross-domain integration to build new sustainable architecture

#### Wireless + Optical

To achieve high frequency, ultra-large bandwidth, and ultra-high speed

Photonic and electronic synergy





#### Refactoring software: building Al-centered, full-stack software





#### Heavier investment for R&D breakthroughs

#### Increase R&D spending and rankings —

R 2016	lanki	ng 2017	R&D Sp	pending	CAGR
4	_	1	Alphabet	22.47B\$	15.3%
8		2	HUAWEI	17.46B\$	13%
5		3	- Microsoft	16.88B\$	9.7%
2		4	SAMSUNG	15.90B\$	7.5%
11		5	Ú.	15.28B\$	13.3%
29	5	6	f	15.03B\$	25.5%
1		7		13.89B\$	0.3%
7		8	Roche	11.25B\$	4.2%
3		9	intel.	11.05B\$	1.2%
9		10	Johnson-Johnson	9.91B\$	6%

Source: The 2021 EU Industrial R&D Investment Scoreboard, European Commission, JRC/DG R&I.

Optimized system architecture

Highly reliable and trustworthy supply chain

Doubled software performance





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#### Maximizing customer value through software-hardware synergies

#### Wireless

3rd-generation MM: simplicity & convergence

AHR Turbo algorithms for Meta AAU

Sub 6GHz in one antenna







#### Gaining a head start through a complete suite of ICT capabilities







### More bits, less watts

More connections and computing power supported by each watt



Software & algorithms breakthroughs Al-assisted power tracking

2.7x

More energy efficient for Huawei mainstay products

> Theories breakthroughs Projectable phase transition for evaporation



#### Unwavering globalization strategy

#### **Standard**

Advocate globally unified standards for the communications industry (e.g. 6G)

#### Talent

Continue embracing global talent and bring together top talent to address global problems

We are committed to helping customers who choose us to achieve the greatest business success

#### Procurement

Stick to a global sourcing strategy and join hands with outstanding, high-potential suppliers worldwide



## Join us for a better future for ICT

Gigaverse Ultra-automation Initiative Speed up

Intelligent Computing & Network aaS

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Differentiated Experience On-demand ESG More Bits, Less Watts