

Harnessing ICT technology to build a Better Connected World

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Where there is vitality, there is the center of the world

Steel
Pittsburgh City



140 Years Ago

Automobile Detroit City



70 Years Ago

?



Digital Information Era



ICT is our new vitality, creating a decentralized world



Shatters the limits of time and space







Promotes global sharing







Drives interdisciplinary innovation





Distributed vitality creats a decentralized world, bringing more opportunities to the margins of society



ICT drives Digital Economy and Competitiveness

20%
reduction of global CO2e emissions by 2030

30% increasing agricultural crop yields

ICT

Over \$11 Trillion

Increase in

GDP

in economic benefits per year by 2030

300 trillion liters of water

ers of wate saving Per year 25 billion

barrels of oil saving per year

- China: Turnovers of e-commerce exceed CNY18 trillion, bypassing the credit card stage and directly entering the e-payment era, 12.7% of the total retail sales of consumer goods
- Malaysia: MyTeksi enables mobile taxi booking and goods delivery, mitigating traffic jams and enhancing efficiency

Source: WEF 2015, GCI 2016, GeSI



Broadband stands out among the five key tech enablers

Priorities for investing in technologies in 2016



Source: Huawei CGI 2016



Global Connectivity Index (GCI) quantifies countries' digital transformation

Compared with 2015, in 2016:

Global digital transformation is gaining momentum

Countries in the Asia Pacific get excellent GCI rankings

Source: Huawei GCI 2016





•Malaysia invested more in cloud services and DCs



Synergy of Three Factors Drives ICT Development





China: Going digital by increasing ICT demand

Going digital by increasing ICT demand



Launched Broadband China strategy. By 2020:

- · High-speed broadband to reach 98% of rural villages
- Urban broadband access to hit 50 Mbps while rural access to reach 12 Mbps
- FTTH to deliver 1 Gbps speeds in its most modern cities

Next step: a global manufacturing center based on low carbon economy

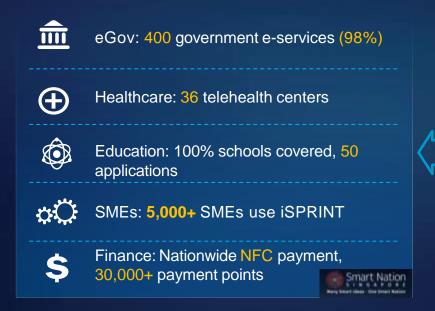
Launched the "Made in China 2025" strategy

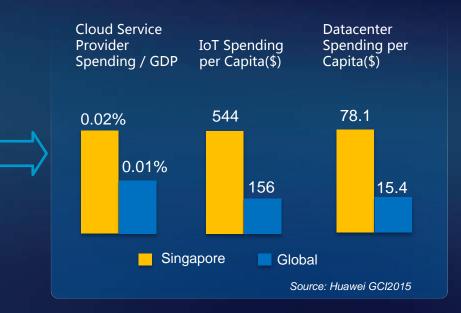
 Incentive policies and investments focusing on cloud services, Big Data analytics and IoT

Encourage independent innovation of SMEs



Singapore: Promoting applications to drive supply and building a smart nation







Government plays Important Role to promote National Broadband development



Government

Funding

- Malaysia: Government subsidy in PPP model
- Cameroon:
 Commercial loan

Regulations

- China: Department of Housing published mandatory regulations on FTTH access for new buildings
- US: "Dig Once", one trenching within a certain time

Collaboration

- Kenya: shared infrastructure, government tax subsidies
- Sweden: allowing electricity, gas and other utility companies to build fiber networks for rent



Rational Spectrum Planning is Important to MBB Development

Rational Planning



1. More Spectrum

For LTE spectrum

Carrier E(TOP1): 39.5MHz

Top Carrier in Singapore: 200MHz



2. Spectrum Concentration

For Capacity upgrade

Carrier E: spectrum fragmentation

LGU + : refarming, 4CC



3. Spectrum Efficiency

For high & low spectrum combination

Carrier A: Lack of high-frequency

Softbank: full coverage



Unleashing the potential of MBB Site Resources & Acquisition

New Base station can be anywhere!



Philippines:

Plenty of Site Resource remain Unused!

Site Types	Site Resource	Quantity	Owner
Outdoor	Bus Station	1,000 ?	Government / Local Council
	Billboard	10,000 ?	
	Lamp pole	60,000	
	Power pole	10,000	
Indoor	shopping Mall Hospital Airport Stadium	930+	Big Consortium/ Corporate



Huawei accelerating ICT transformation to build a Better Connected World



Innovation for A Better Tomorrow

\$30Bn

R&D Investment Accum.



10

JICs & Labs



15,000

Talents Development





...through Openness and Collaboration



JOIN US IN BUILDING A BETTER CONNECTED WORLD