

Empower inclusive digital economy with ICT infrastructure innovation

Abel Deng

President of Huawei Asia Pacific Carrier Business



Inclusive economy is a priority strategy in the post-epidemic era

ASEAN pushes for **inclusive business models** for sustainable growth



BALI, 24 August 2023

Focus on micro, small and medium enterprises (**MSMEs**)

- **Linking MSMEs** to larger companies and **platforms**
- Pilot **innovative financing tools** to provide access to finance for inclusive businesses
- Expand business through **digitalization** in Tourism, hotels, trading, etc.
- **Skill** upgrading and knowledge transfer
- ...

The new PM's first policy report in Parliament, **Urgent action** to tackle 'sick economy'



"Policies to build a good quality of life, enhance safety, and build dignity and pride for all Thai people"

Source Bangkok Post 11 SEP 2023

Focuses on economic stimulus and **inclusive economy**

- Recharging **10,000** baht to citizens' **digital wallets**
- Promoting the development of new economies, such as **digital economy**, high-tech industries, and green industries
- Setting up an industrial fund, which will **invest in potential startups**
- Improve agricultural production efficiency and quality through **technology innovative**, such as **precision agriculture**
- ...

Digital economy is an effective way to boost the inclusive economy

Digital economy in Thailand: The current development level is at the level of China in 2016

| | Thailand@2022 | China@2016 | China@2022 |
|--|---------------|------------|------------|
| Internet economy in total retail goods and service | 14.2% | 15% | 30% |
| Digital economy in GDP | 20% | 25% | 40% |

Inclusive Digital Economy in Thailand

- Online Logistics and delivery Job Opportunities: **300,000**, Average monthly income **18,000** baht
- **30,000** restaurants have connected to online service platforms (Total 500,000 restaurants)
- **45%** of SMEs have access to the cloud and have an official website (IPV4)
- **65% population** has accessed government online services
- ...

Digital Thailand MasterPlan(2023-2027)



- Digital economy in GDP 20%@2022 ↗ **30%**@2027
- Adopting digital technology MSMEs in business activities 50%@2020 ↗ **80%**@2027
- The proportion of digital technology use in agriculture shall not be **less than 50%**@2027
- Create more job opportunities for **300,000** digital technology talents.

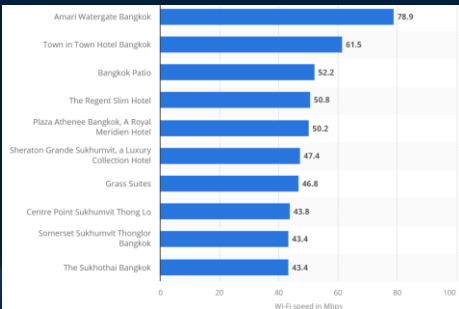
The potential of Thailand's inclusive digital economy to be unleashed

ICT infrastructure: New network needs at inclusive digital economy scenario

In some scenarios, **4G/5G coverage** is insufficient



Bad Wi-Fi experience in most hotels
No pre-deployment of fiber in new apartments



Tiktok bitrate is only **480P** and cannot show the quality of goods in the live broadcast sales



Network IPV6 evolution lags behind cloud IPV6 evolution



Only **45%** network IPv6 capable or IPv6 ready (IN 80%, MY 62%, VN 52%)



DCN
E2E IPv6 evolution

DCN
IPv6-only

Support IPv6-only
architecture

Source: <https://stats.labs.apnic.net/ipv6/XD>

Digital Trust limitations

Internet fraud



Personal information leaked



Digital skill

Only **13.30%** of Thai people have middle-level digital skills

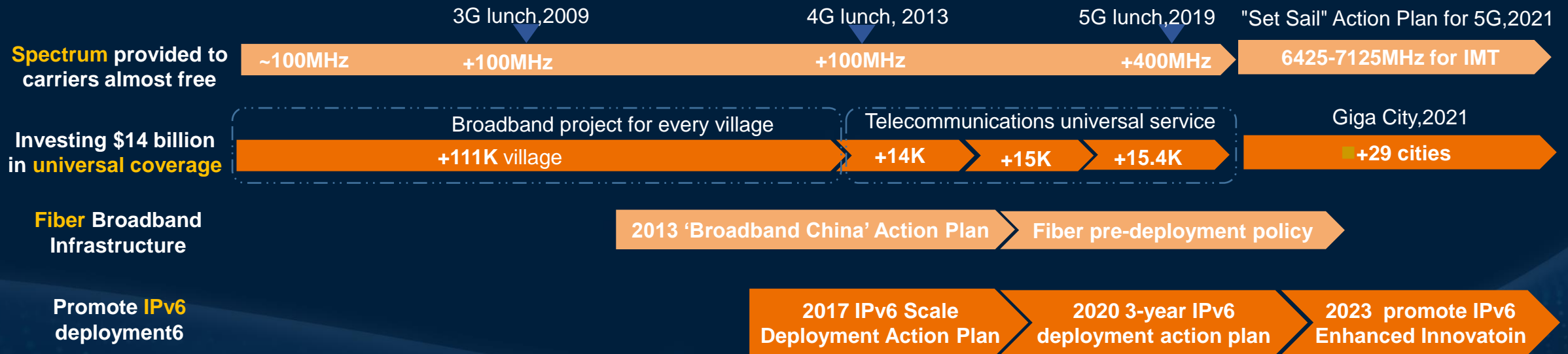
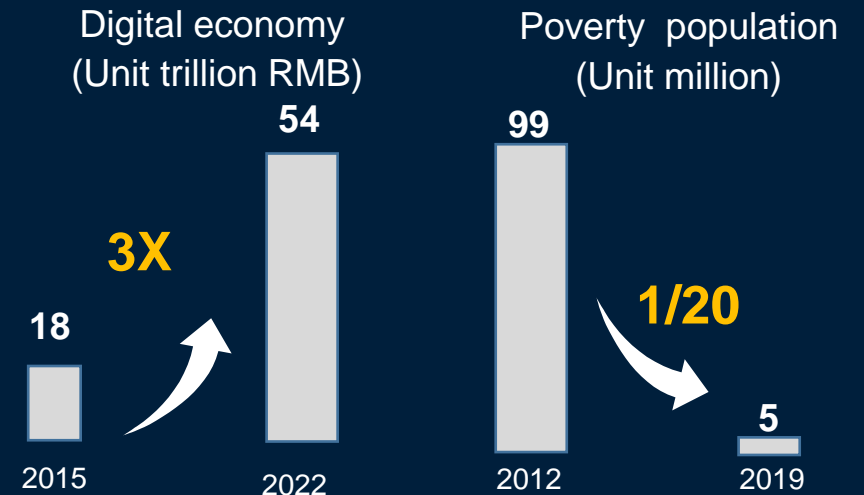
Source ONDE 2023

China Case: Digital economic development and poverty alleviation

The telecom industry effectively drives digital economic growth



Industry CAGR (2014-2018), Source China MIIT



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Policy initiatives suggestion to drive ICT infrastructure innovation

- **Optimizing 4G and 5G network experience** in inclusive economic scenarios, Community markets, mobile stalls, garages, MSMEs, etc.
- Subsidizing **network and fiber deployment** for universal service through **USO funds**
- **Subsidy** for Grab Boy's communication expenses (Current average monthly fee is about 1,000 baht)
- Legislation guides new apartments, hotels, and shared offices to be **pre-deployed fiber-to-room**
- Establish a **joint working group** of regulators, carriers, and OTTs to **promote IPV6**
- ...



Unleashing the potential of inclusive economies in Thailand by 2030

- Online logistics and delivery Job opportunities: **1,300,000** (10X)
- **300,000** restaurants operation on digital platforms (10X)
- **250,000** shared car driver (5X)
- **800,000** hotel rooms offer fiber broadband (5X)
- **90% of** SMEs have access to the cloud and have an official website (Dedicated IP address) (2X)
- ...



Mission of Huawei Thailand

Bring digital to every person, home and organization for
a fully connected, digitalized, and green Thailand

