



中國通信服務  
CHINA COMSERVICE

CHINA COMMUNICATIONS SERVICES CORPORATION LIMITED  
(A joint stock limited company incorporated in the People's Republic of China with limited liability)  
Stock Code : 552

# 2019 Interim Results

27 Aug 2019



*CHAIRMAN*

*MR. ZHANG ZHIYONG*



*PRESIDENT*

*MR. SI FURONG*



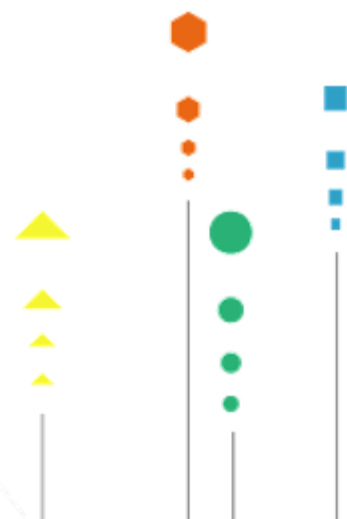
*EXECUTIVE VICE PRESIDENT*

*MR. LIANG SHIPING*



*EXECUTIVE VICE PRESIDENT & CFO*

*MS. ZHANG XU*





## *Overview*



## *Business Review*



## *Financial Results*





# Overview

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Overall results maintained steady growth with sound development quality, notwithstanding the slower growth and even decrease in revenue in the telecom industry



Growth momentum noticeably transformed to domestic non-operator market and OPEX-driven business of domestic operator market



Software capabilities and brand influence were further enhanced, and revenue growth of software related services surpassed industry level

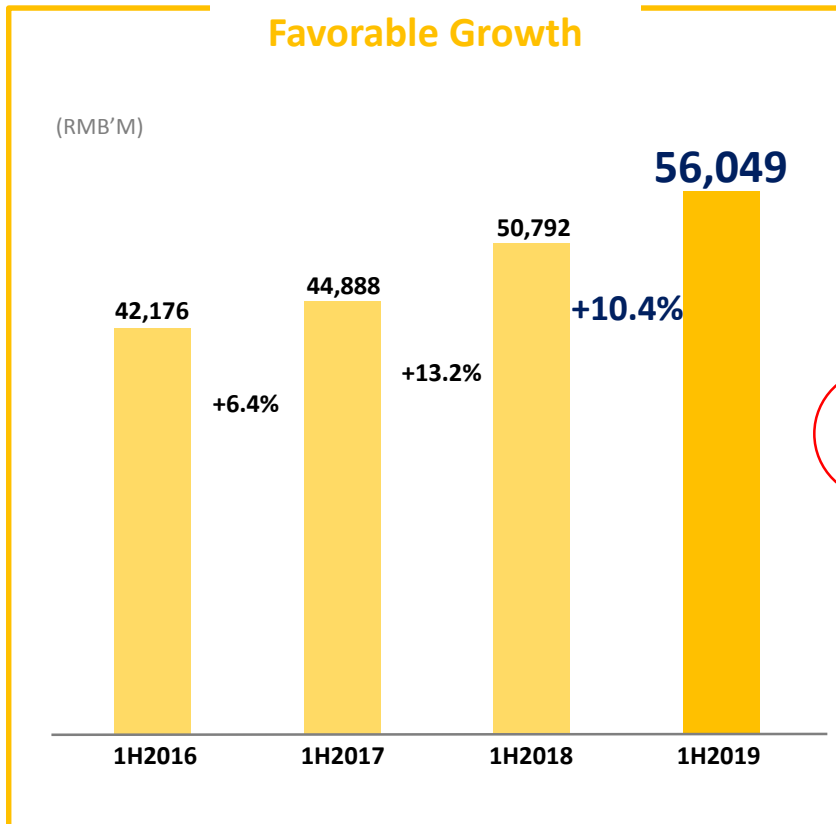


New positioning of “New Generation Integrated Smart Service Provider” steers the Company to capture the new demands arising from the new era of digital transformation

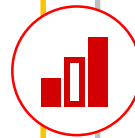
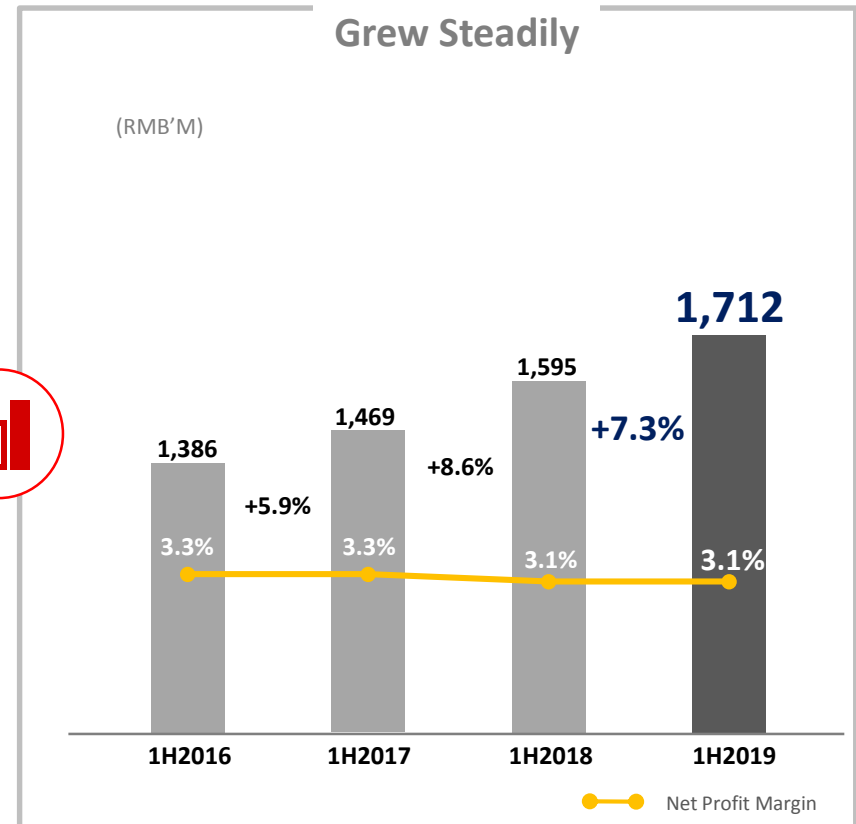


# Steady Growth in Overall Results Sustained

## Revenue Maintained Favorable Growth



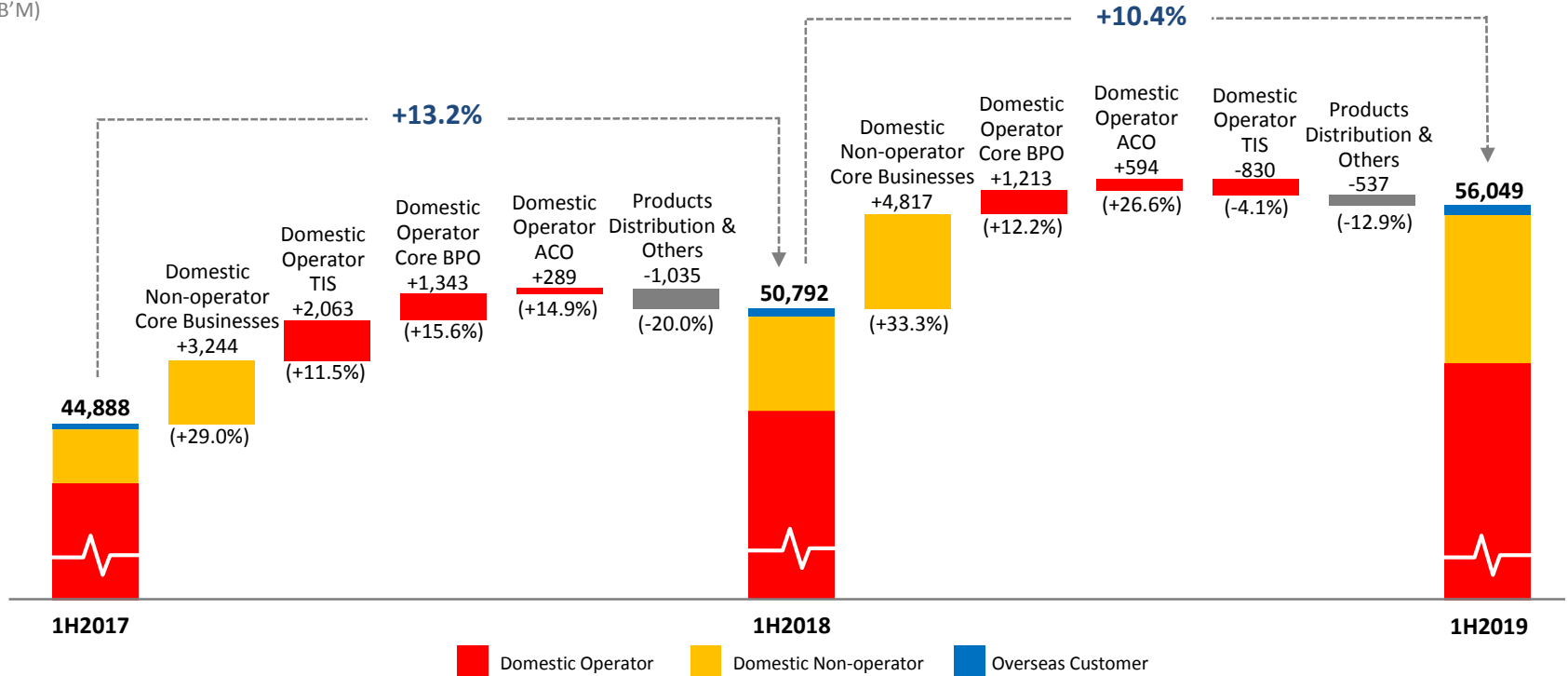
## Net Profit Grew Steadily



# Growth Momentum Noticeably Transformed...

## Revenue Growth Drivers

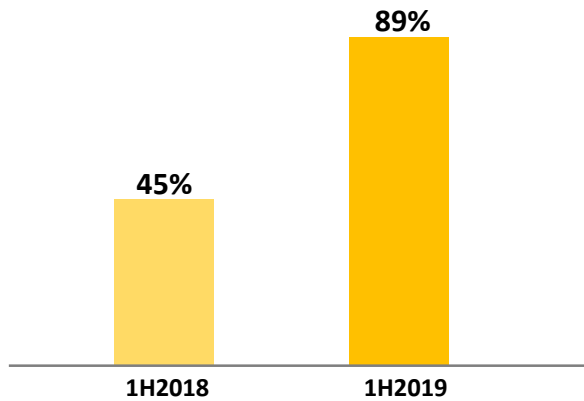
(RMB'M)



- By vigorously developing informatization construction and the related businesses, domestic non-operator market became the main growth driver and its contribution to overall incremental revenue surpassed domestic operators
- Intensely developed OPEX-driven business of domestic operators, and the incremental revenue contributed by Core BPO businesses became the main growth driver of such market
- Through bolstering the transformation of domestic operators and satisfying relevant ICT service demand, ACO business of domestic operator market experienced accelerated growth and increased revenue contribution

## I. Revenue Contribution from Domestic Non-operator Market Increased Significantly

- Contribution to overall incremental revenue increased substantially

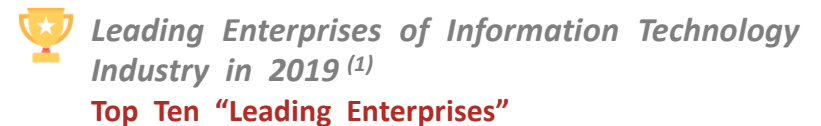


- Became the largest customer for the first time

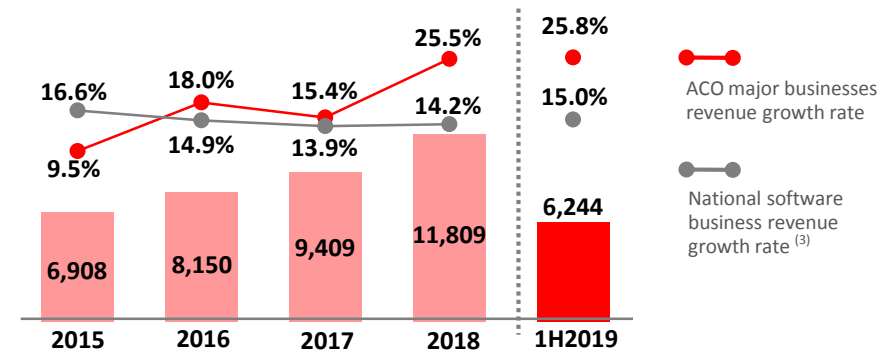


## II. Enhanced Software and IT Capabilities

- Gradually elevate status in software industry



- Revenue growth of ACO major businesses <sup>(2)</sup> surpassed industry level



<sup>(1)</sup> Coordinated by China Information Technology Industry Federation

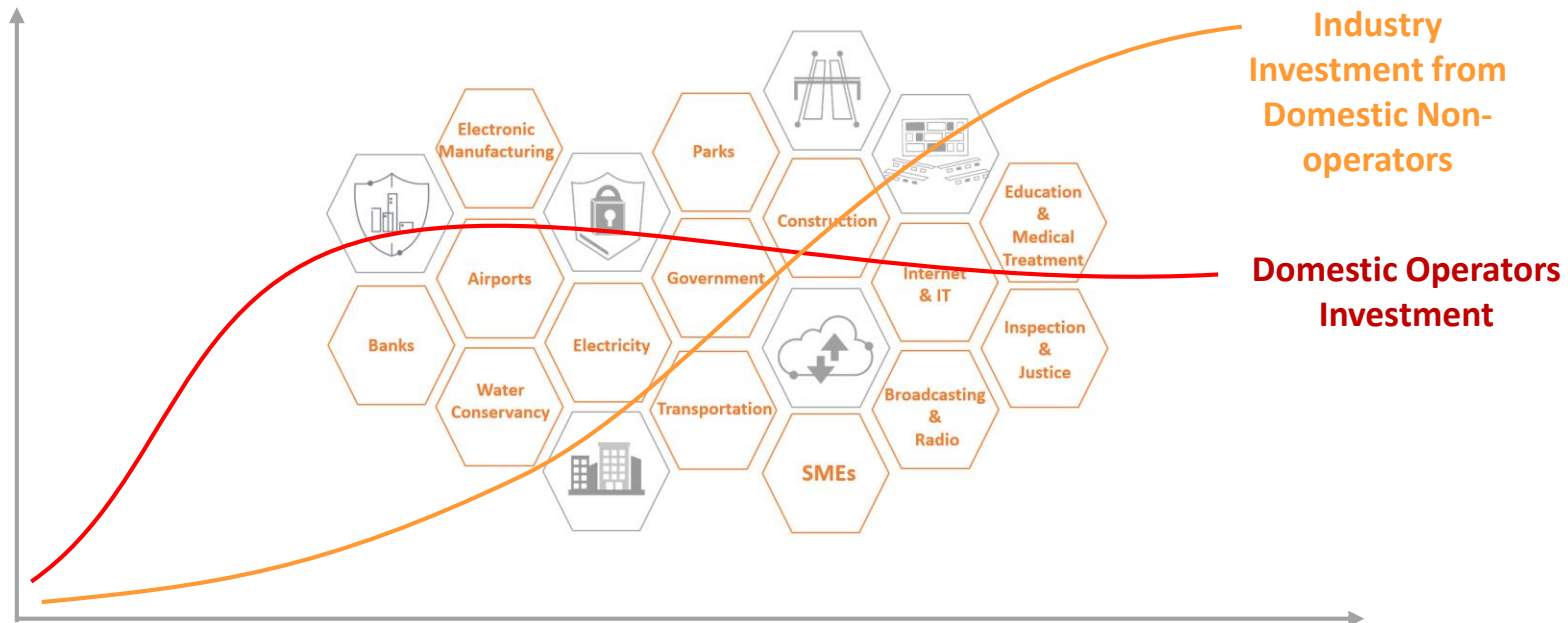
<sup>(2)</sup> ACO major businesses include System Integration, Software Development & System Support and Value-added Services

<sup>(3)</sup> Source: Software business revenue announced by Ministry of Industry and Information Technology of the People's Republic of China (MIIT)



# Vast Development Opportunities Brought by 5G

5G network construction, and the deep integration between new technologies such as Big Data, Cloud Computing and IoT with various industries will greatly stimulate the demand for and investment on smart applications

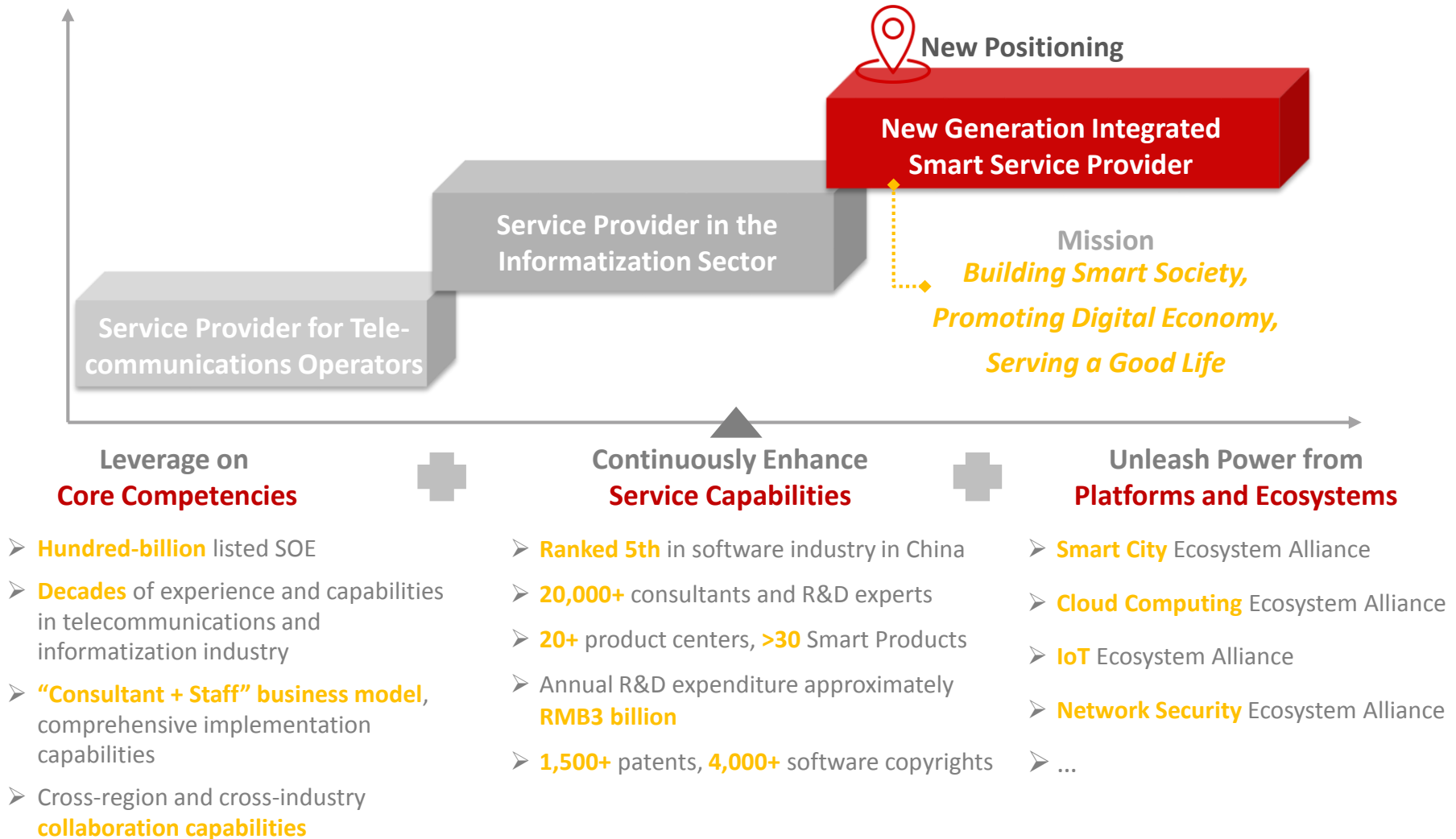


**5G will bring continuous and significant development opportunities to the Company in various stages**



# New Positioning: New Generation Integrated Smart Service Provider

*Grasp Opportunities in New Era:  
Demand arising from Digital Transformation and Industrial Internet*



# Focus on Three Main Tracks of Development Rise to Challenges and Capture Opportunities

## Opportunities

- China GDP growth stayed at reasonable range, among which, information transmission, software and IT services recorded rapid growth, at over 20% <sup>(1)</sup>
- Scale of Digital Economy accounts for over 30% <sup>(1)</sup> of GDP and has become a core economic growth driver
- New technologies such as Big Data, Cloud Computing, IoT, and 5G expedite evolution, especially deep integration with economy
- SOE Reform and “Belt and Road” Initiative bring new opportunities...

## Challenges

- Changes in macro environment bring uncertainties to economic growth and industry development
- Market competition intensifies, service value in telecom industry remains on a downward trend, labour costs increase continuously
- Transitional impacts on profitability due to the strategic deployment of resources during the Company's transformation ...

## Value Driven, Seeking Steady yet Progressive Growth and High-quality Development

### Domestic Non-operators

- Accelerate deployment in smart products and markets, deepen market penetration in key industries
- Through capabilities accumulation, enabling and expansion, cultivate platforms and ecosystems, collaborate internal and external resources to expedite development
- Bolster promotion on “New Generation Integrated Smart Service Provider”

### Domestic Operators

- Strengthen CAPEX and OPEX as dual drivers, fully support 5G network construction and maintenance service demand
- Capture new opportunities from transformation, enhance cooperation in new areas such as smart solutions, Cloud Computing, IoT

### Overseas

- Focus on major projects, execute “EPC+” new model
- Facilitate the promotion of smart products in overseas market
- Develop businesses synergistically with other enterprises, including domestic operators



# *Business Review*

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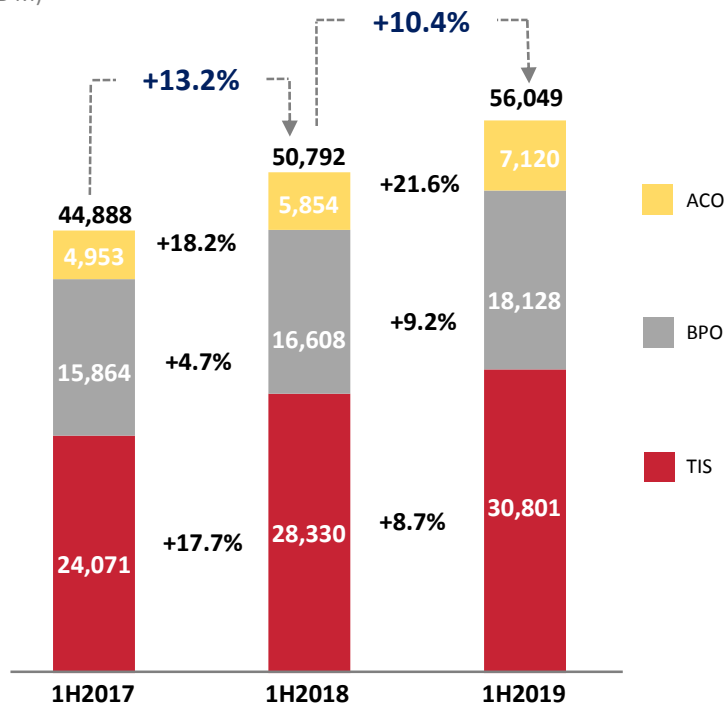
# Business Revenue Breakdown

(RMB'M)	1H2018	1H2019	Change %	% of Revenue
<b>TIS (Telecommunications Infrastructure Services)</b>				
Design	5,355	5,145	-3.9%	9.2%
Construction	20,942	23,875	14.0%	42.6%
Supervision	2,033	1,781	-12.4%	3.2%
<b>Subtotal</b>	<b>28,330</b>	<b>30,801</b>	<b>8.7%</b>	<b>55.0%</b>
<b>BPO (Business Process Outsourcing Services)</b>				
Maintenance	6,604	7,349	11.3%	13.1%
Facilities Management	2,353	2,711	15.2%	4.8%
Supply Chain	4,937	5,788	17.2%	10.3%
<b>Core BPO Businesses Subtotal</b>	<b>13,894</b>	<b>15,848</b>	<b>14.1%</b>	<b>28.2%</b>
Products Distribution	2,714	2,280	-16.0%	4.1%
<b>Subtotal</b>	<b>16,608</b>	<b>18,128</b>	<b>9.2%</b>	<b>32.3%</b>
<b>ACO (Applications, Content and Other Services)</b>				
System Integration	3,198	4,232	32.3%	7.5%
Software Development & System Support	950	1,055	11.0%	1.9%
Value-added Services	813	957	17.8%	1.7%
Others	893	876	-1.9%	1.6%
<b>Subtotal</b>	<b>5,854</b>	<b>7,120</b>	<b>21.6%</b>	<b>12.7%</b>
<b>Total</b>	<b>50,792</b>	<b>56,049</b>	<b>10.4%</b>	<b>100%</b>

# Revenue Growth Trend by Businesses and Markets

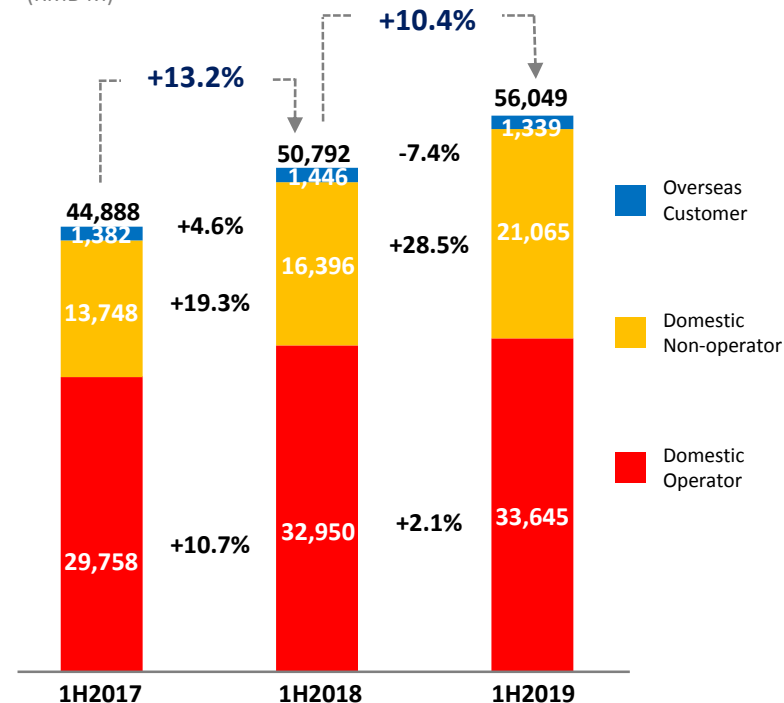
## Revenue Growth by Businesses

(RMB'M)



## Revenue Growth by Markets

(RMB'M)



- Effectively captured the informatization and intelligentization demand of various industries, ACO business continued to be the fastest growing business
- Capitalized on ACO core products, the provision of integrated solutions drove TIS and BPO businesses
- Continued to vigorously develop OPEX market of domestic operators to drive BPO business, while fulfilling the increasing demand for ACO business brought by transformation of domestic operators



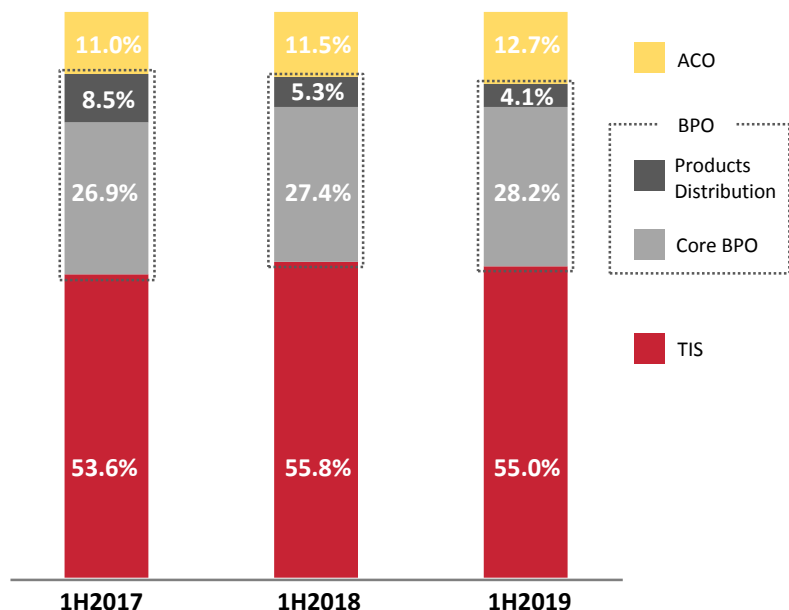
**Domestic non-operator market** sustained robust growth



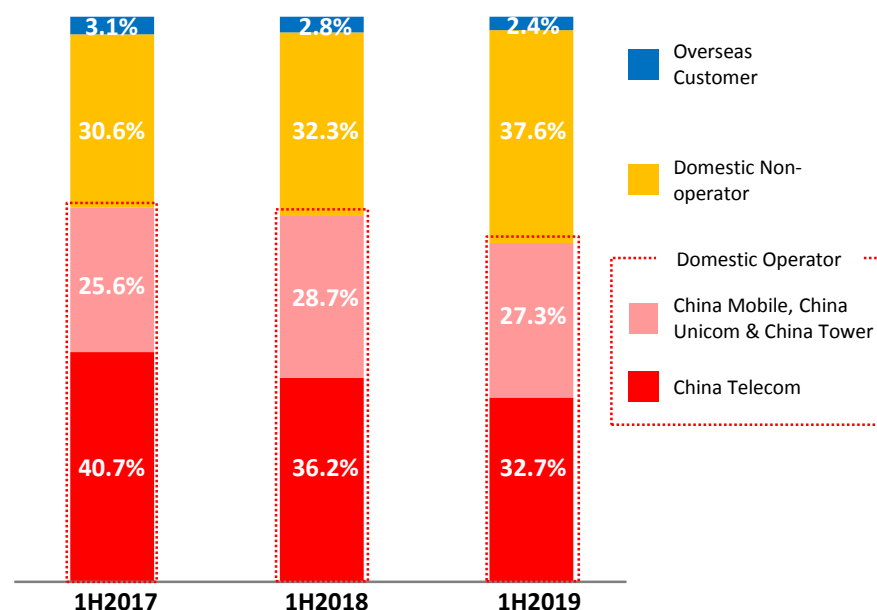
**Domestic operator market** maintained steady growth

# Revenue Composition by Businesses and Markets

## Revenue Composition by Businesses



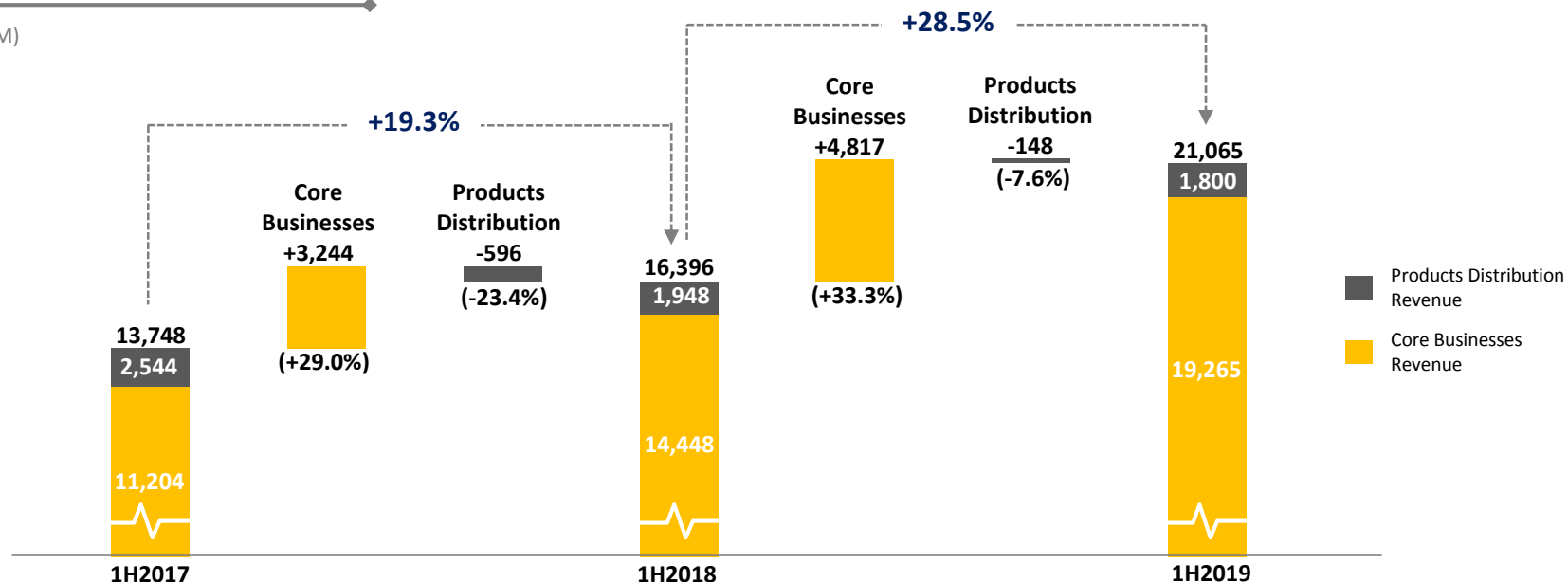
## Revenue Composition by Markets



- **Business Structure Continued to Optimize:** portion of revenue from ACO business and Core BPO businesses continued to rise while portion of revenue from products distribution business kept decreasing
- **Market Structure Further Diversified:** Domestic non-operator became the largest customer group for the first time

## Revenue Growth Drivers

(RMB'M)



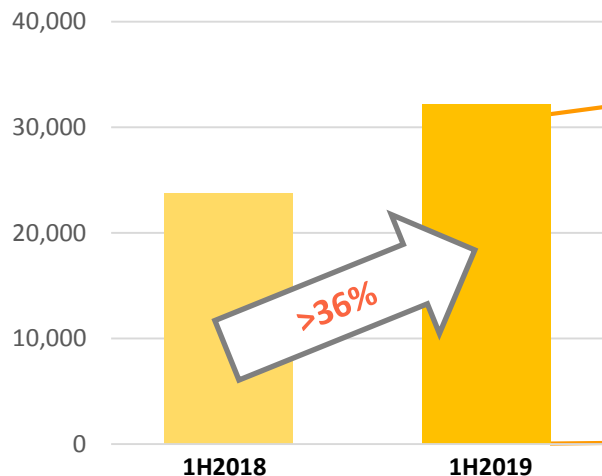
- Seizing the opportunities from Digital Economy and Smart Society and focusing on the construction opportunities from the informatization and intelligentization of key industries, we are dedicated to providing integrated comprehensive solutions
- Consistently enhanced integrated service capabilities and industry influence
  - Enhance internal software R&D capabilities and strengthen internal collaboration through capabilities accumulation, enabling and expansion, while raising key capabilities and producing industry-leading comprehensive solutions by building ecosystems
  - Deeply penetrate into key industries, accelerate deployment in products and markets
  - Continue brand building and further promote the brand of “New Generation Integrated Smart Service Provider”
  - Ranked as top 10 enterprises in the major rankings of the domestic software & IT service, information technology industry



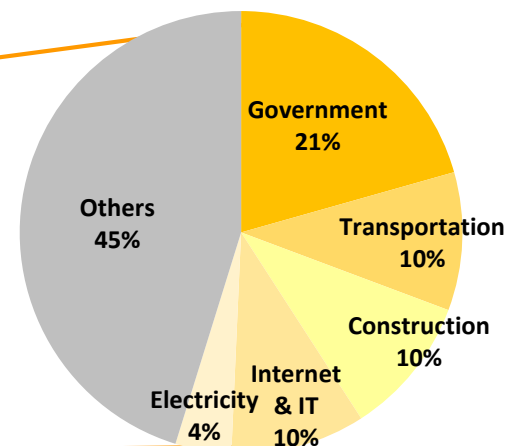
# Domestic Non-operator Market II – Deeply Penetrate into Key Industries and Enhance Industry Influence

Total Amount for Newly Signed Contracts

(RMB'M)



Sector Breakdown of Newly Signed Contracts in 1H2019



## Focus on Key Industries and Opportunities

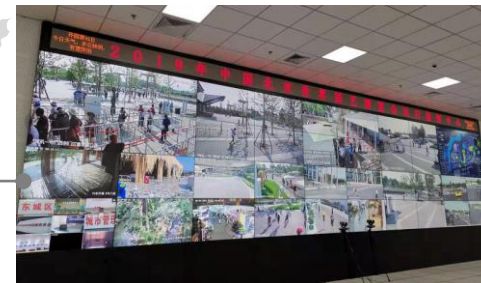
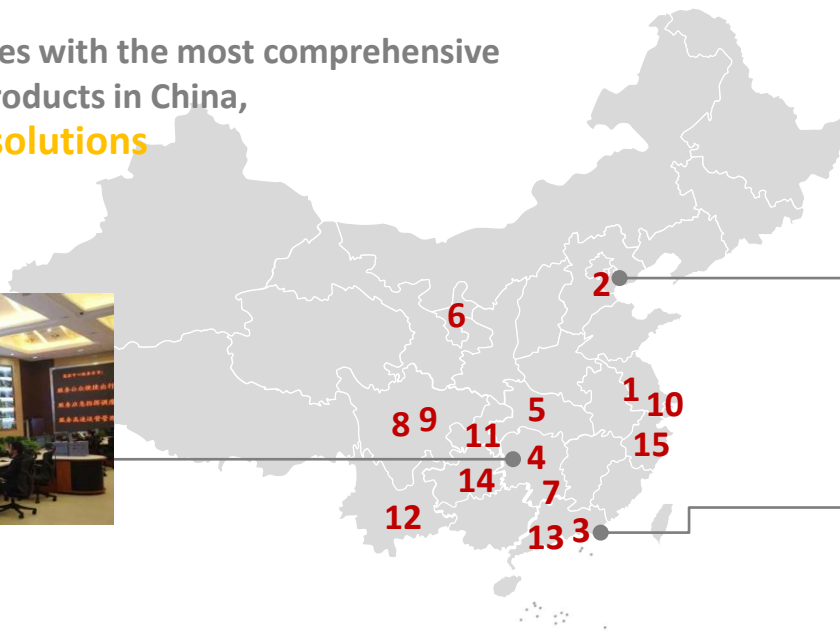
- **Government:** Focus on applications such as Smart City, Smart Government Services, and Smart Justice; and also provide intelligentization construction, system integration services etc.
- **Transportation:** Focus on applications such as Smart Highway, Smart Airport, Smart Waterborne Transportation and Smart High Speed Rail; and also provide pipeline relocation, system integration services etc.
- **Electricity:** Focus on applications such as Smart Grid, Ubiquitous Power Internet of Things; and also provide design, construction, integration and maintenance services for power wireless private network and weak current system
- ...

## Facilitate the Operation of Our Ecosystem Alliances, Cultivate Leading Comprehensive Solutions for Key Industries

- Smart Justice and Smart Inspection garnered Top 10 Innovative Products awards
- Smart Airport awarded “Best Solution Provider”
- Awarded “Outstanding National Standard Research Contributor” in China International Software Expo - Software Engineering and Quality Forum
- ...

# Domestic Non-operator Market III – Accelerate Deployment in Products and Markets

➤ One of the enterprises with the most comprehensive coverage of smart products in China, provides over 30 solutions



## Signature Projects

### 1. Jiangsu – Smart City

Smart Nanjing Operation and Management Platform

### 5. Hubei – Smart Airport

Integrated Consultation & Design Project for Tianhe Airport

### 9. Sichuan – Smart Inspection

People’s Procuratorate Smart Inspection Service

### 13. Guangdong – Smart Water Conservancy

Smart Water Conservancy Cloud Platform Project

### 2. Beijing – Smart Park

International Horticultural Exhibition “Smart Expo” Project (Beijing Expo 2019)

### 6. Ningxia – Smart Emergency

Safety, Risk Alert , Management & Monitoring Cloud Service Platform

### 10. Shanghai – Smart Education

China Maritime Safety Administration Online Learning Platform

### 14. Guizhou – Smart Agriculture

Agricultural IoT Platform

### 3. Shenzhen – Intelligent Building

Intelligentization Project of Shenzhen World Exhibition & Convention Center

### 7. Hunan – Smart Justice

“rufa.gov.cn” Integrated Law Service Platform

### 11. Chongqing – Smart Community

Smart Community Prevention and Control Project

### 15. Zhejiang – Cloud Engineering

China Telecom Cloud Computing Center in Inner Mongolia

### 4. Hunan – Smart Highway

Highway Informatization Project

### 8. Sichuan – Smart Gov. Services

Integrated Government Services Platform Project

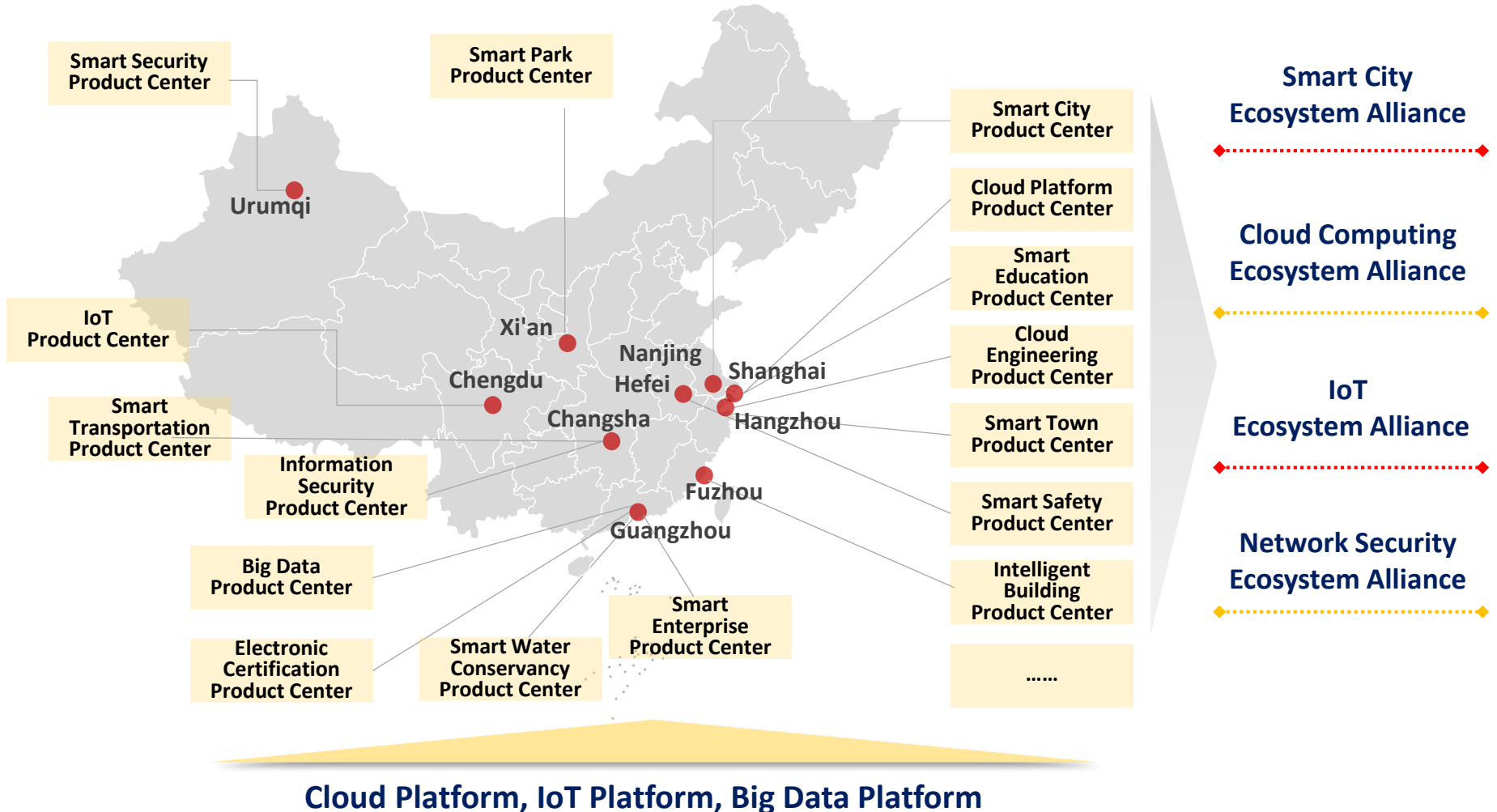
### 12. Yunnan – Smart Scenic Area

Informatization and Management System Construction Project in the Colorful Sand Forest Scenic Area

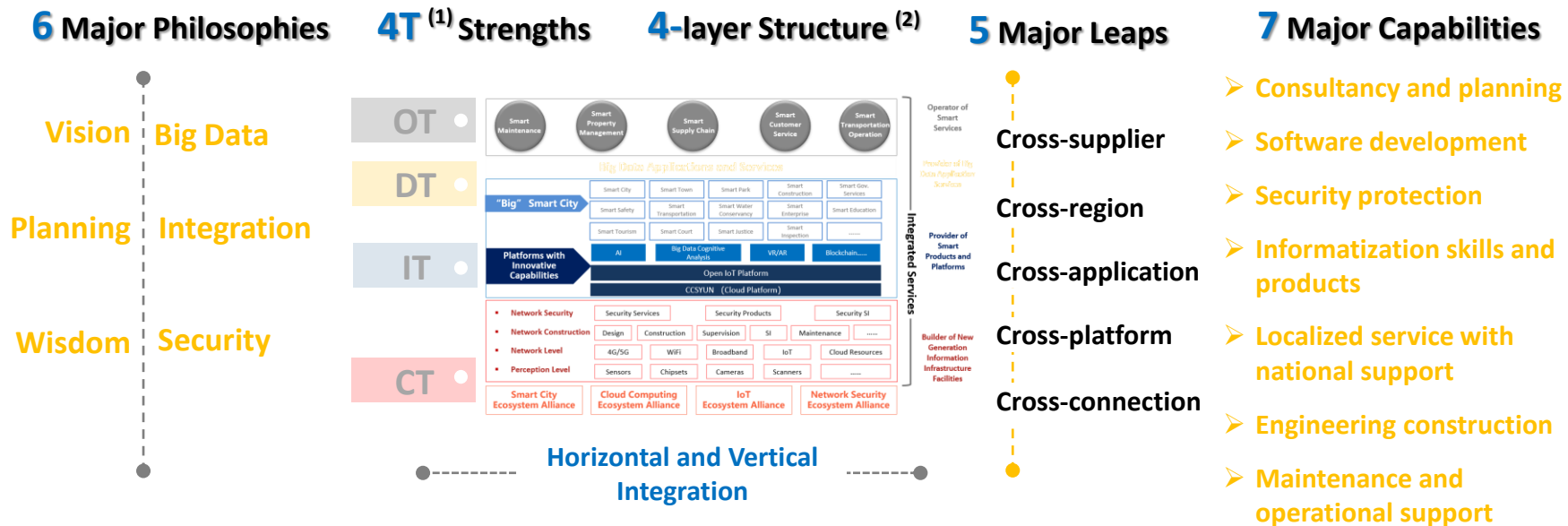
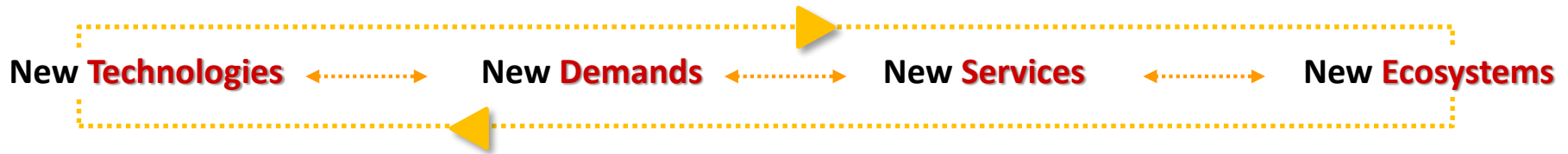
Others.....

# Domestic Non-operator Market IV – Enhance R&D and Continuously Upgrade Core Capabilities

➤ Possess **over 20 R&D centers** across the country and promote “**product-oriented projects, platform-oriented products**” through widely dispersed R&D; facilitate the formation of ecosystem alliances and accelerate **capabilities accumulation, enabling and expansion** to support national services and upgrade core capabilities



# Domestic Non-operator Market V – New Generation Integrated Smart Service Provider

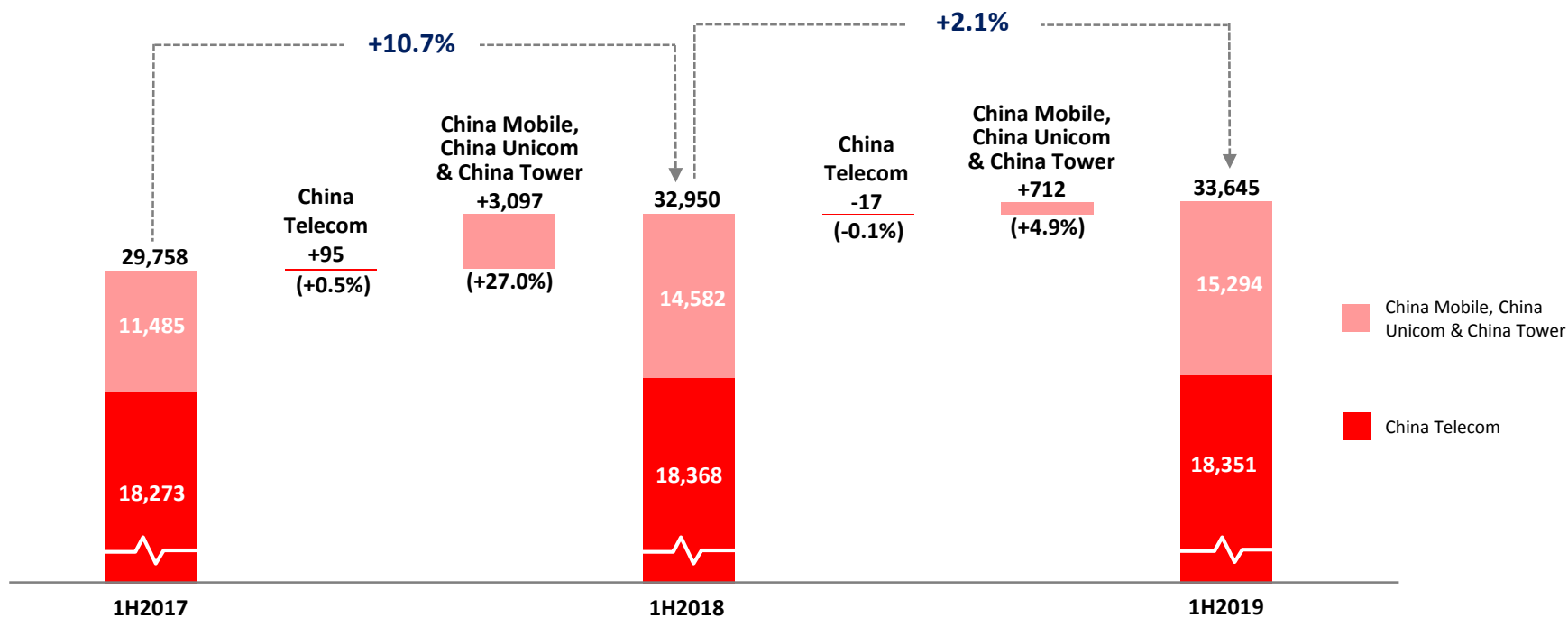


<sup>(1)</sup> 4T includes: Operational Technology, Data Technology, Information Technology, and Communications Technology

<sup>(2)</sup> Please refer to slide 33 for 4-layer Structure - Smart Society Products of China Comservice

## Revenue Growth Drivers

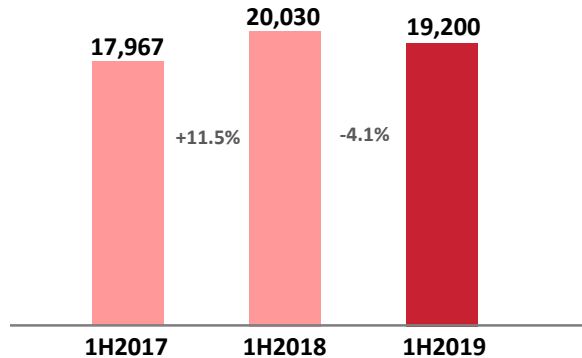
(RMB'M)



- Despite the high base in 1H2018 and 5G network construction of domestic operators being yet at scale, revenue from domestic operator market still achieved steady growth
- Excluding products distribution business, revenue from China Telecom increased by 1.1% yoy in 1H2019

## TIS Business <sup>(1)</sup>

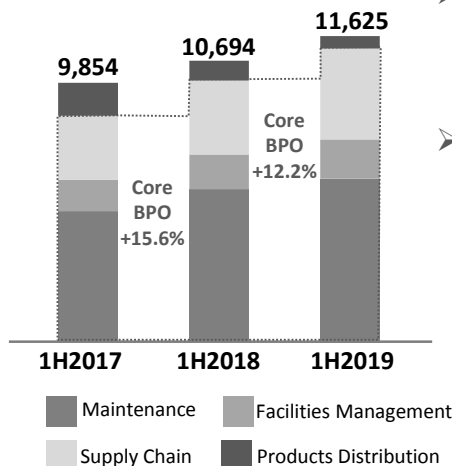
(RMB'M)



- Domestic operators will gradually increase 5G network construction investment in the coming 1 - 2 years
- Fully support the 5G network construction of domestic operators and strive to maintain stable market share
- Continue to uphold leading industry position in telecommunications infrastructure services, and enhance scale and quality through building up industry standards, strengthening subcontracting management etc.

## BPO Business <sup>(1)</sup>

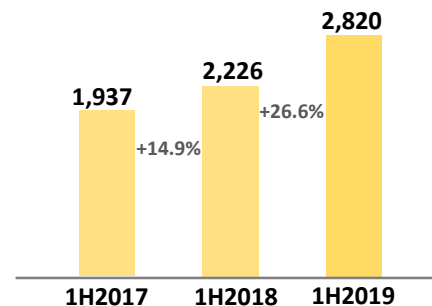
(RMB'M)



- Generally sustainable, steady and generates relatively stable cash flow
- Core BPO businesses (including maintenance, supply chain and facilities management) maintained a relatively steady and double-digit growth in past 2 years

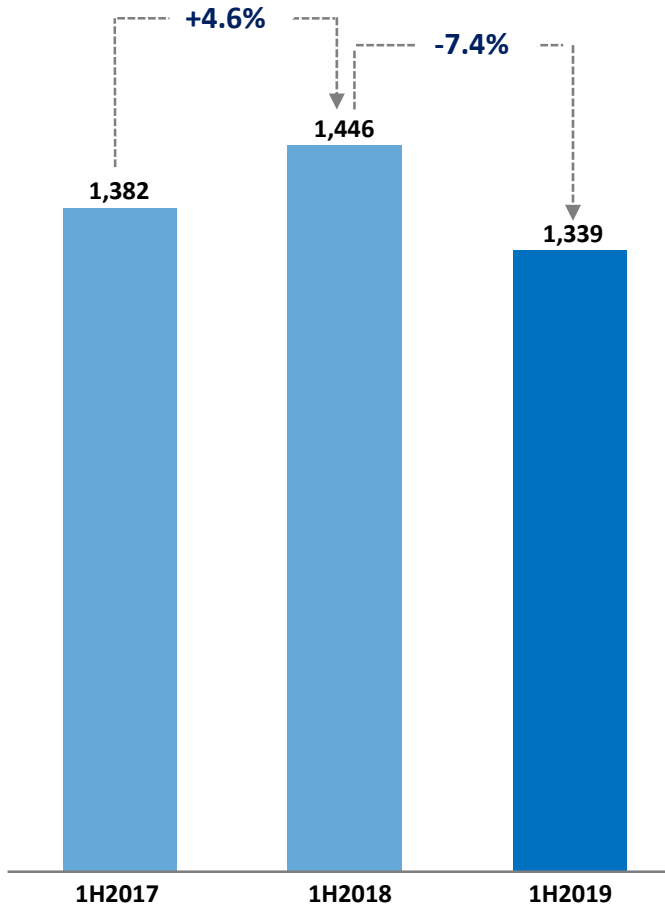
## ACO Business <sup>(1)</sup>

(RMB'M)

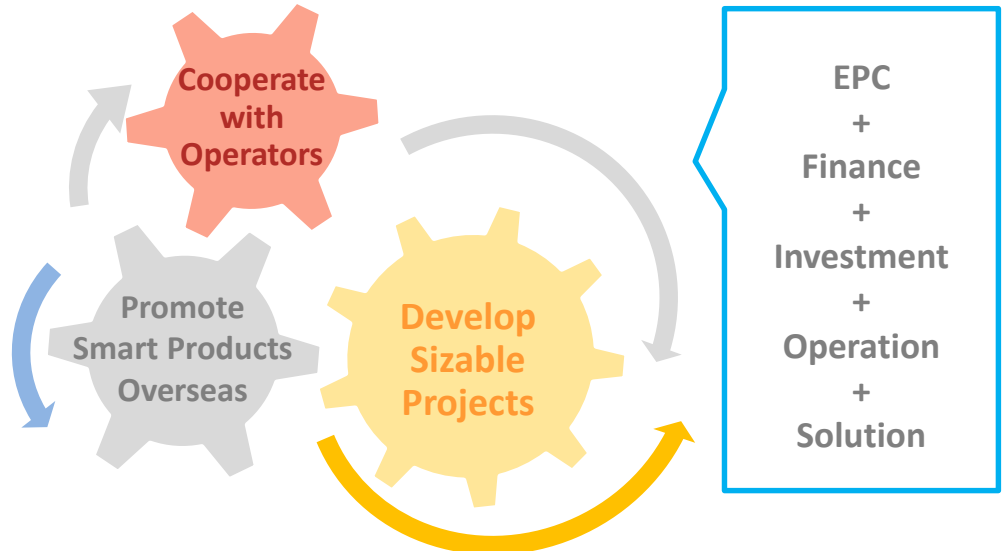


- Closely follow new technology services demand brought by 5G; support transformation of domestic operators and enhance cooperation in the field of smart services, IoT etc.
- Enhance collaboration with domestic operators and jointly develop the informatization market of government and enterprise customers

Revenue from Overseas Market  
(RMB'M)



- Overseas business experienced cyclical fluctuation as existing major projects nearly completed while the new major projects have not started generating meaningful revenue
- Actively promote the new “EPC+” expansion model and pursue the transformation and upgrade of overseas business
- Closely follow the digital transformation opportunities arising from overseas customers and extend the domestic smart society products overseas
- Deepen the collaboration with domestic operators to further develop businesses in overseas market





# *Financial Results*

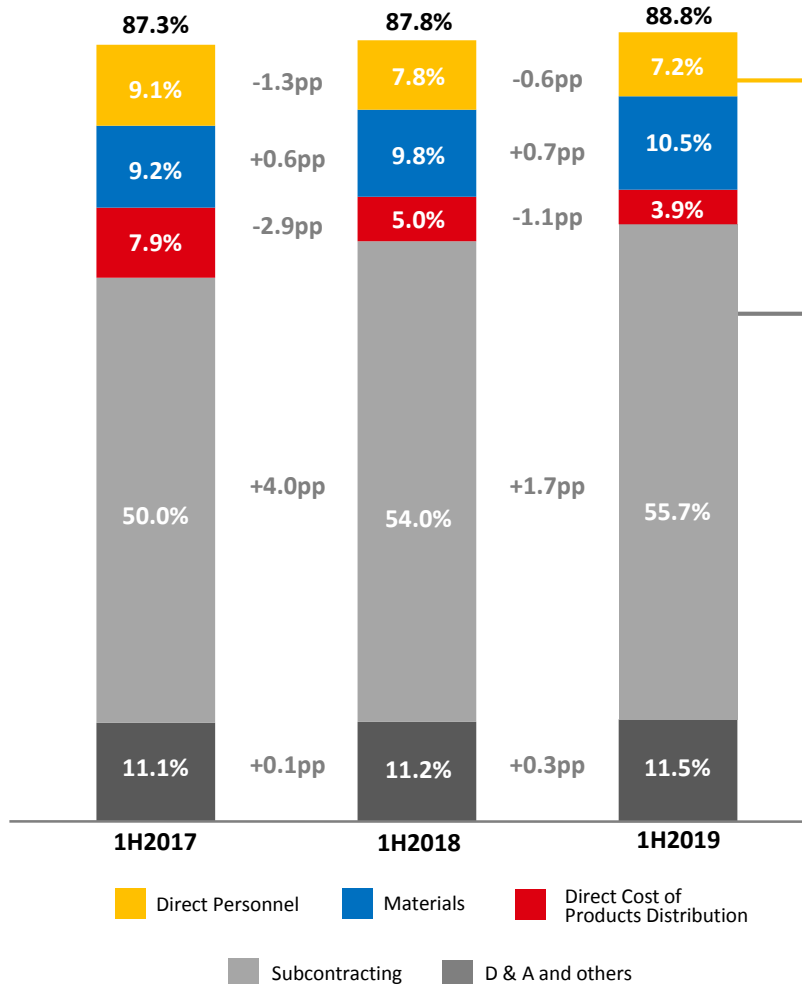
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(RMB'M)	1H2018	1H2019	Change %	% of Revenue
<b>Revenue</b>	<b>50,792</b>	<b>56,049</b>	<b>10.4%</b>	<b>100%</b>
<b>Cost of Revenue</b>	<b>44,616</b>	<b>49,749</b>	<b>11.5%</b>	<b>88.8%</b>
Direct Personnel	3,959	4,040	2.1%	7.2%
Materials	5,008	5,904	17.9%	10.5%
Direct Cost of Products Distribution	2,529	2,175	-14.0%	3.9%
Subcontracting	27,414	31,188	13.8%	55.7%
D & A	239	351	47.1%	0.6%
Others	5,468	6,091	11.4%	10.9%
<b>Gross Profit</b>	<b>6,176</b>	<b>6,300</b>	<b>2.0%</b>	<b>11.2%</b>
<b>SG &amp; A</b>	<b>4,661</b>	<b>4,985</b>	<b>7.0%</b>	<b>8.9%</b>
<b>Net Profit</b>	<b>1,595</b>	<b>1,712</b>	<b>7.3%</b>	<b>3.1%</b>
<b>EPS (RMB)</b>	<b>0.230</b>	<b>0.247</b>	<b>7.3%</b>	-

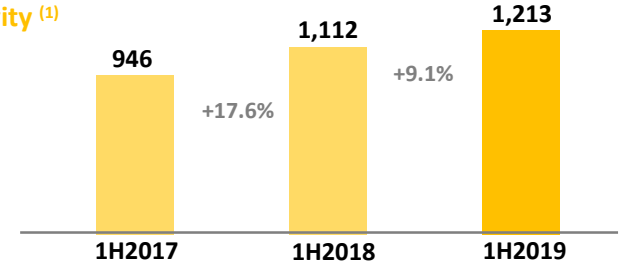
Cost of Revenue as a % of Revenue



By utilizing subcontracting resources adaptively and controlling total staff number, direct personnel cost as a % of revenue kept declining while labour productivity kept increasing

**Labour Productivity<sup>(1)</sup>**

(RMB'000/staff)

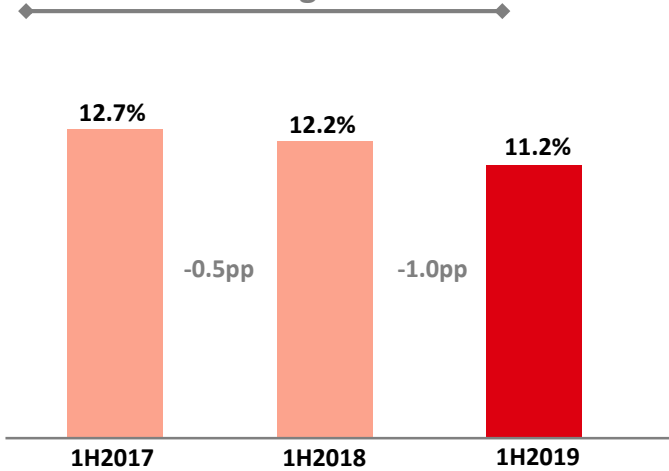


By strengthening subcontracting management, growth of subcontracting cost as a % of revenue noticeably eased

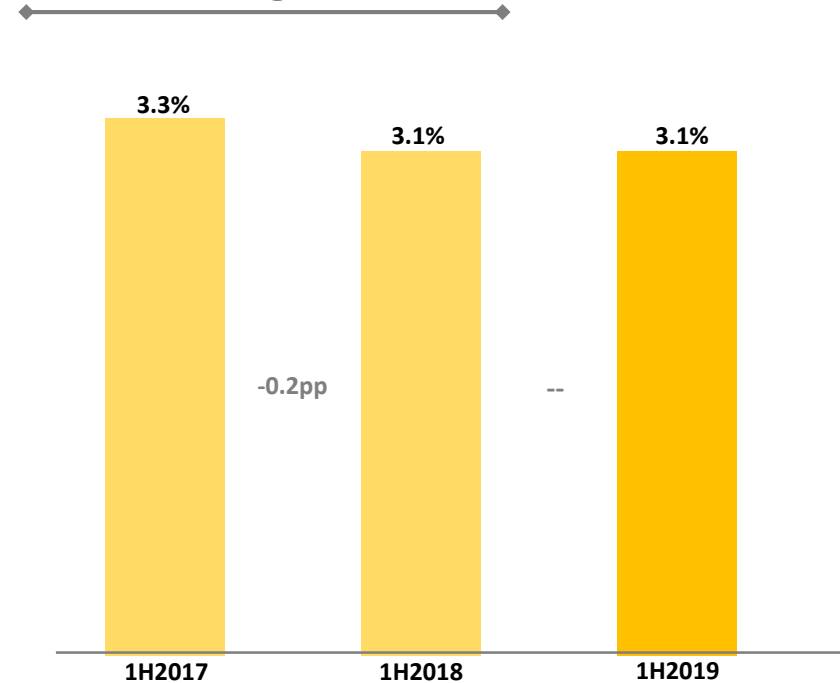
Rapid growth of construction business in domestic non-operator market and system integration business drove the relatively fast increase in materials cost

By proactively controlling the products distribution business, direct cost of products distribution as a % of revenue fell by 1.1pp

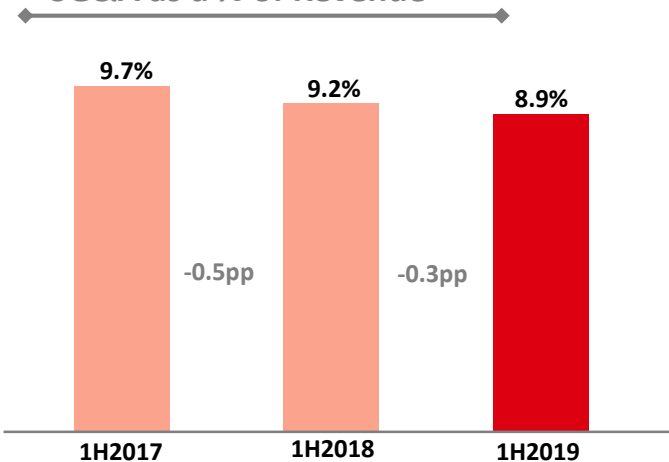
### Gross Profit Margin



### Net Profit Margin

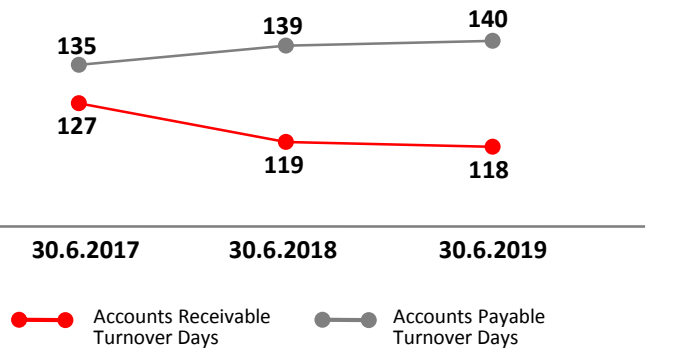


### SG&A as a % of Revenue

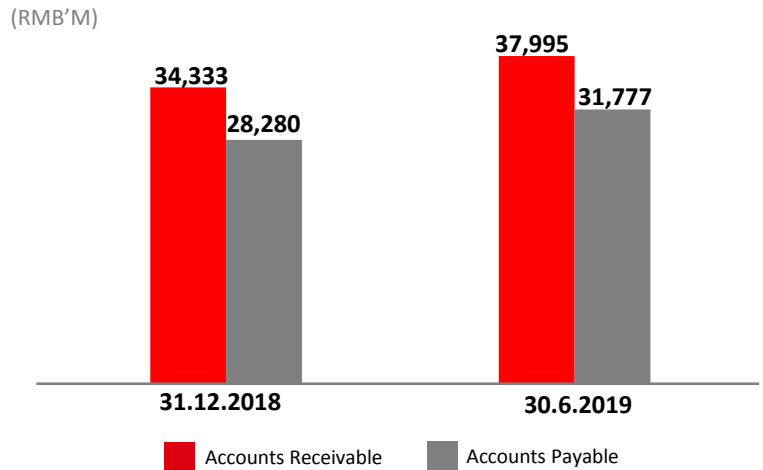


- Gross profit margin decreased due to various factors including the decreasing service value in telecom industry , the development in the domestic non-operator market still being in the preliminary introductory phase and increased labour related costs
- SG&A grew as R&D expenditure increased to forge smart solutions and enhance software capabilities, but SG&A as a % of revenue continued to decrease due to scale benefit

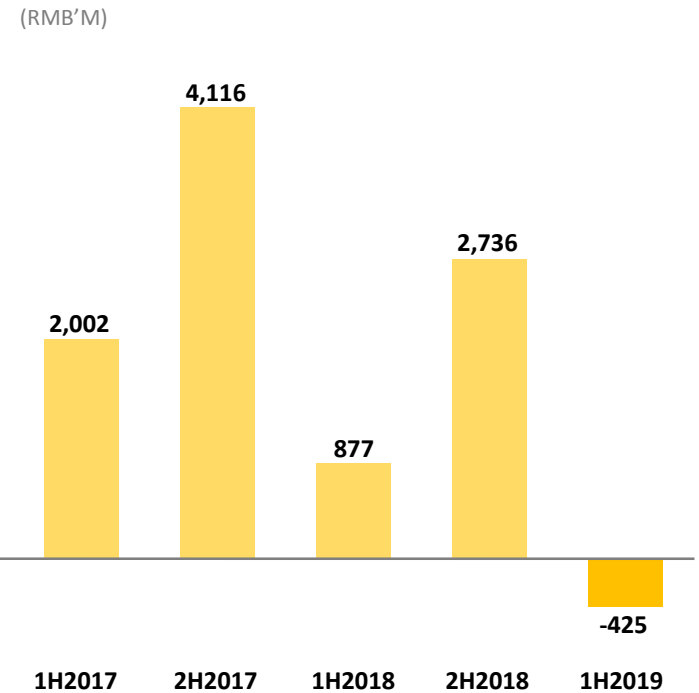
## Accounts Receivable <sup>(1)</sup> and Accounts Payable Turnover Days



## Accounts Receivable <sup>(1)</sup> and Accounts Payable



## Free Cash Flow <sup>(2)</sup>



<sup>(1)</sup> Disclosures on certain items of financial statements have been adjusted following the adoption of new accounting standards from 2018. To maintain the comparability with past year figures, the amount of accounts receivable as at 30 June 2019 and 31 December 2018 is the sum of "Accounts and bills receivable, net" and "Contract assets, net" in financial statements. For details, please refer to financial statements.

<sup>(2)</sup> Free cash flow = profit for the year + depreciation & amortization – changes in working capital – CAPEX. The Company has adopted a new accounting standard on leases since 2019. Excluding the impact of the new standard, free cash flow in 1H2019 was RMB-572 million.

- Robust financial condition offers financial flexibility to support the Company's development, and also supports further innovation and transformation of the Company

(RMB'M)	30.6.2018	31.12.2018	30.6.2019
<b>Total Assets <sup>(1)</sup></b>	<b>79,108</b>	<b>80,926</b>	<b>85,734</b>
<b>Total Liabilities</b>	<b>47,604</b>	<b>48,097</b>	<b>51,921</b>
<b>Equity Attributable to Equity Shareholders</b>	<b>31,022</b>	<b>32,331</b>	<b>33,327</b>
<b>Total Liabilities / Total Assets (%)</b>	<b>60.2%</b>	<b>59.4%</b>	<b>60.6%</b>
<b>Debt-to-Capitalization Ratio (%)</b>	<b>1.3%</b>	<b>1.4%</b>	<b>1.4%</b>
<b>Cash and Deposits</b>	14,747	18,235	15,795
<b>Interest-bearing Liabilities</b>	408	471	476

# Thank you!



- Platinum Award - Excellence in Environmental, Social and Governance
- Best Investor Relations Team Award

-----by *The Asset*



- The Best of Asia - Icon on Corporate Governance
- Asian Corporate Director

-----by *Corporate Governance Asia*



- Best CEO
- Best Investor Relations Company

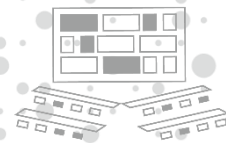
-----by *Corporate Governance Asia*





# Appendix

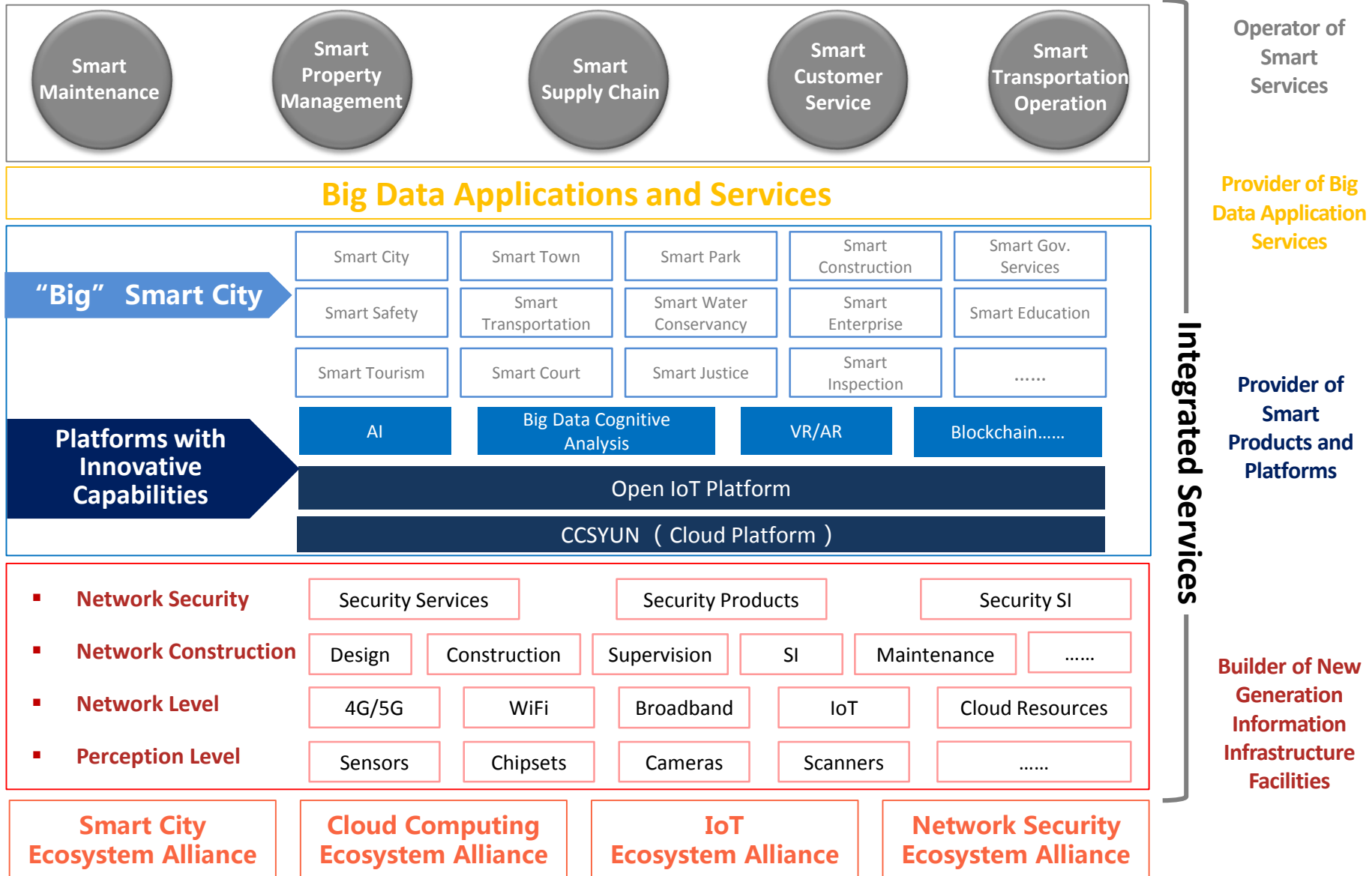
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# Business Revenue Breakdown – By Customer

(RMB'M)	1H2018	1H2019	Change	Change %
<b>TIS (Telecommunications Infrastructure Services)</b>				
Domestic Operator	20,030	19,200	-830	-4.1%
Domestic Non-operator	7,273	10,665	3,392	46.6%
Overseas Customer	1,027	936	-91	-8.9%
<b>TIS total</b>	<b>28,330</b>	<b>30,801</b>	<b>2,471</b>	<b>8.7%</b>
<b>BPO (Business Process Outsourcing Services)</b>				
Domestic Operator	9,943	11,156	1,213	12.2%
Domestic Non-operator	3,793	4,568	775	20.4%
Overseas Customer	158	124	-34	-21.3%
<b>Subtotal (Core BPO)</b>	<b>13,894</b>	<b>15,848</b>	<b>1,954</b>	<b>14.1%</b>
Products Distribution	2,714	2,280	-434	-16.0%
<b>BPO Total</b>	<b>16,608</b>	<b>18,128</b>	<b>1,520</b>	<b>9.2%</b>
<b>ACO (Applications, Content and Other Services)</b>				
Domestic Operator	2,226	2,820	594	26.6%
Domestic Non-operator	3,382	4,032	650	19.2%
Overseas Customer	246	268	22	9.1%
<b>ACO total</b>	<b>5,854</b>	<b>7,120</b>	<b>1,266</b>	<b>21.6%</b>
<b>Total</b>	<b>50,792</b>	<b>56,049</b>	<b>5,257</b>	<b>10.4%</b>





## Construct a power wireless private network and facilitate the construction of Ubiquitous Power Internet of Things



- Participate in the **top-level planning and design** for the power wireless private network of State Grid
- Participate in the **research and edition work for enterprise standard** of power wireless private network of State Grid
- Assist in the **construction of power wireless private network** for various provincial power companies across the country



### Terminal Communication Access Network in Jiaxing, Zhejiang

CCS participated in the design, construction and supervision of the project and assisted State Grid to construct the first full coverage power wireless private network at prefecture-level in Jiaxing, Zhejiang



### 5G Power Slicing Test in Nanjing

CCS cooperated with China Telecom to finish the first slicing test for 5G power control and management business based on actual power network environment in the electricity industry

# Case Introduction – Smart Electricity

Provide various smart applications and management systems that raise the intelligentization level in power



## Communication Resource Management System for Main Power Network

- Professional physical resources management
- Mode arrangement and management
- Malfunction analysis and management
- Migration management



## Integrated Smart Control and Management System for Communication of Electricity Distribution Network

- Resource management
- Integrated network management
- Operation and control

## Smart Application System for Video and Image in Power Network



- Scenarios for the operation, transmission and transform for power network
- Integrated management for video resources
- Facial recognition
- Systematic analysis for massive amount of videos



## 110kV Smart Transformer Station in Dujiangyan, Chengdu

- Standardized intelligent design for indoor transformer station
- Distribution mode structure
- Smaller size
- Fast construction speed
- Energy saving and environmental-friendly

Technological Consultation

Framework & Development

Construction & Implementation

Data Collection & Record

Operation & Maintenance

Decision-making & Analysis

## CCS Intelligent Building Management System (CCS-iBMS) – the “Brain” of building management which provides comprehensive solutions



Centralized  
Equipment  
Monitoring



Centralized  
Warning  
Management



Event  
Interconnection



Smart  
Equipment  
Dispatch



Integrated  
Property  
Management



Integrated  
Maintenance  
& Operation  
Management



Energy  
Consumption  
Smart  
Analysis







Haixi Commercial Building

## Construction Scope

- Construction of 21 systems including structured cabling system, computer network system, program-controlled exchange system, equipment automation system, energy billing system, smart lighting system, cable TV and satellite inception system, video surveillance system, invasion alert system, one-card management system, wireless intercom system, chiller plants multiple control system, property management system, intelligent building management system etc.

## Project Detail

- A 43-storey commercial building located at the CBD with 110,000 m<sup>2</sup> of total gross floor area, which is also one of the new landmark buildings in Fuzhou

## Benefits to Customer

- Establish a 5A intelligent commercial building of international standard that is the new landmark building of Fuzhou
- Adopt the “**Smart Management + Smart Operation + Smart Service**” model and leverage on a wide variety of intelligent applications in CCS-iBMS to showcase various management, operation and service data of the building and achieve visualized management
- Project construction and quality are highly recognized by the NDRC and key development department of Fujian Province and awarded as the **Outstanding Project for Key Project Assessment of Fujian Province in 2018**



Guangdong Foshan  
110 Command Center



Shandong Yangxin  
People's Hospital



Jiangxi Guangfeng  
Cigarette Factory



Chongqing Jiangbei  
Doctorate Entrepreneurship  
Building

The Company would like to caution readers about the forward-looking nature of certain statements herein. These forward-looking statements are subject to risks, uncertainties and assumptions, which are beyond its control. Potential risks and uncertainties include those concerning the growth of the telecommunications industry in China, the development of the regulatory environment, and our ability to successfully execute our business strategies. In addition, these forward-looking statements reflect the Company's current views with respect to future events and are not a guarantee of future performance. The Company does not intend to update these forward-looking statements. Actual result may differ materially from the information contained in the forward-looking statements as a result of a number of factors.