



北京 2022 年冬 奥会官方合作伙伴 Official Partner of the Olympic Winter Games Beijing 2022

NEW BEGINNING NEW OPPORTUNITIES NEW JOURNEY

ANNUAL RESULTS 2021

China Unicom (Hong Kong) Limited HKEx stock code: 762
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Forward-looking Statements



Certain statements contained in this presentation may be viewed as "forward-looking statements". Such forward-looking statements are subject to known and unknown risks, uncertainties and other factors, which may cause the actual performance, financial condition or results of operations of the Company to be materially different from any future performance, financial condition or results of operations implied by such forward looking statements. In addition, we do not intend to update these forward-looking statements. Neither the Company nor the directors, employees or agents of the Company assume any liabilities in the event that any of the forward-looking statements does not materialise or turns out to be incorrect.



New Beginning: Steady Growth in Revenue and Profit



(RMB Mil)	2020	2021	Change YoY
Operating Revenue	303,838	327,854	7.9%
Service Revenue ¹	275,814	296,153	7.4%
Net Profit ²	12,493	14,368	15.0%
Basic EPS (RMB)	0.408	0.470	15.0%

Service revenue growth reached eight-year high

YoY growth rate exceeded industry average³ in 4Q 2021

Profit growth accelerated

Note: Unless otherwise stated in this presentation,

- 1. Service revenue = operating revenue sales of telecommunications products.
- 2. Net profit represented profit attributable to equity shareholders of the Company.
- 3. Industry data sourced from MIIT website.

New Opportunities: Huge Potential in Digital Economy





Serving national strategy



New infrastructure

The Company resolutely fulfils its missions in the Cyber Superpower, Digital China, Smart Society and technological innovation. Leveraging 5G network, nationwide integrated IDC system and national industry Internet, accelerate the construction of comprehensive and intelligent digital information infrastructure which is fast and ubiquitous, extends from sky to ground, features cloud-network integration, smart and agile, green and low-carbon, secure and controllable, in order to build an unobstructed information channel for the economy and society.



Cyber Superpower Strategic Implementation Outline

Digital Economy Development Outline

"14th Five-year" New Infrastructure Development Planning

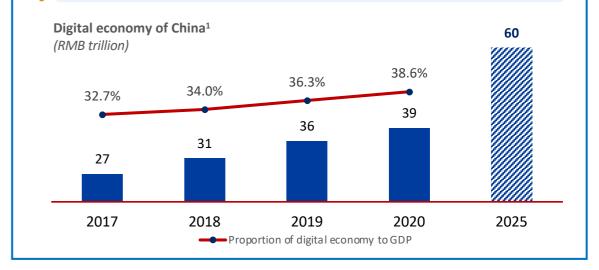
"Dual-gigabit" Network Development & "Eastern Data, Western Computing" Project



Riding on industry development trends

New economy

- Digital economy is becoming a key force in restructuring global resources, reshaping global economic structure and changing global competitive landscape.
- Industrialization of data and digitization of industry are speeding up, driving faster integration of digital and real economies.



Notes:

.. Based on data from "Whitepaper on China Digital Economy Development 2021" by the China Academy of Information and Communications Technology

New Journey: Total Strategy Upgrade





New Positioning



Big Computing

Big Data

Big Application

Big Security

Strengthen and solidify

Preserve and innovate

Integrate and open

National team

in the operation and service of digital information infrastructure

Key force

in the establishment of Cyber Superpower,

Digital China and Smart Society

Frontline troop

in the integration and innovation of digital technologies

Tap into blue ocean in digital economy

Higher positioning Broader landscape Stronger responsibilities

Fully Implement New Strategy to Boost Growth Quality



Firmly adhere to "1+8+2" strategic planning



Resolutely Building Premium Networks: "Dual-gigabit" Network **Development Reaching New Level**



Riding on the "dual-gigabit" upgrade cycle, dedicated to building premium networks with quality customer experience, high degree of intelligence and low carbon emission



5G network

Coverage

Downtown areas of cities, counties and major towns

Speed

2.7 Gbps Highest downlink speed in the world Scale

690K BTS

(1 310K vs 2020.12)



Gigabit broadband network

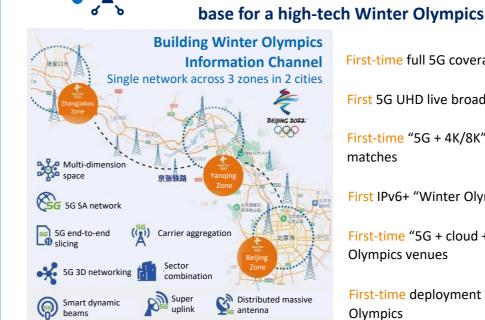
Total leadership in broadband in the North 92%

Coverage ratio of gigabit broadband in the North

Gaining good reputation

No. 1 in industry

Broadband satisfaction



First-time full 5G coverage at Olympics venues

⁹ China Unicom's premium networks serve as a robust digital

First 5G UHD live broadcast studio on high-speed rail

First-time "5G + 4K/8K" live broadcast throughout all matches

First IPv6+ "Winter Olympics private network"

First-time "5G + cloud + XR" match-watching at Olympics venues

First-time deployment of L4 autonomous driving at Olympics

"There are many breakthroughs in this Winter Olympics, especially the broadcasting and communication technology."



Thomas Bach, President of International vmpic Committee

Yiannis Exarchos CEO of Olympic **Broadcasting Services**



"The quality of broadcasting infrastructure is the highest in the history of Winter Olympics, which is attributable to China's global leadership in 5G technology"

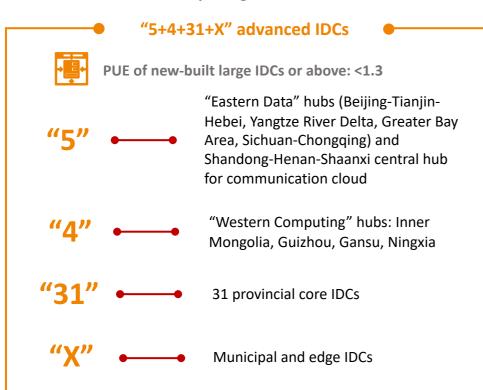
Resolutely Building Premium Networks: Énhancing Integrated Computing Network Infrastructure



Seizing new opportunities brought by "Eastern Data, Western Computing", dedicated to offering integrated computing network services encompassing "connectivity + sensing + computing + intelligence"



Building green, centralized, secure and reliable computing infrastructure



Building a nationwide-integrated, agile and advanced computing network







Integrated at national, provincial and municipal levels

"Multi-cloud connectivity, cloud deployment with single click"

Coordination of multi-tier computing power

Unicom Cloud featuring cloud-network integration, security and reliability, tailored customisation and multi-cloud collaboration



Sensing IoT cloud



Data storage cloud



Smart video cloud



Smart chain collaboration cloud



5G ed clou



Proprietary controllable



Hybrid cloud

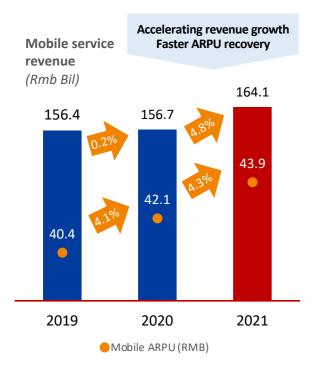


Unified technical foundation
Cloud services with integrated full-stack capabilities

Strengthening Economy of Scale: Steady Growth in Basic Businesses







317.12mil

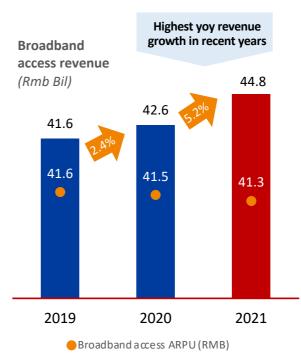
(11.30 mil)
2021.12 mobile subscribers
Net-add turned positive

(* 26pp yoy)

5G package subscriber

penetration





95.05_{mil}

72%

(** 7pp yoy)

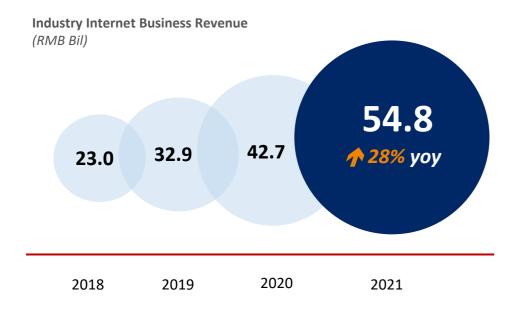
Integration penetration

Stepping up Innovation-driven Development: Rapid Growth in Innovative Businesses

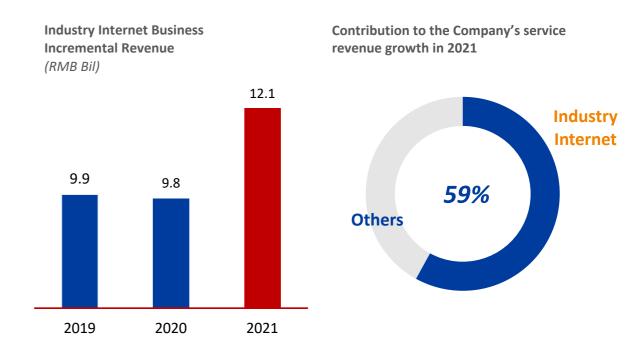




Industry Internet Business



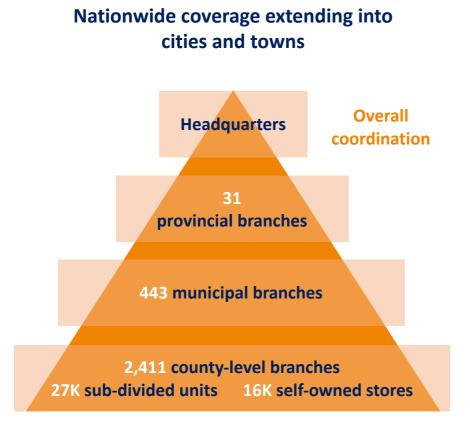
Industry Internet has become the No. 1 driver of the Company's revenue growth



Stepping up Innovation-driven Development: Rapid Enhancement in Innovative Capabilities



Foster holistic development with resources integration and interoperable capabilities





Stepping up Innovation-driven Development: Strengthening Technological Innovation





Strengthened technological R&D capabilities

R&D expense growth 61.7%

Proportion of technological innovation talents

22%

No. of patents granted
120%

1,128 patents granted



Insisted on enhancing competitiveness in core technologies through innovation

Advancement in core technologies



Led first-time domestic substitution of high-precision time-frequency synchronization chips

Broke the monopoly to provide 5G network with precise time standard

Network innovation

Launched Cube-Net 3.0 innovative network offerings

Provided integrated terminal-edge-cloud services combining connectivity, computing and data



Intelligent operation



Launched China Unicom Intelligence Brain. Core capabilities of the "Five Middle Platforms" basically established

Iconic and industry-leading brain-like intelligent middle platforms

Bolstering Customer Service with More Measures: Building Quality Reputation



Committed to offering excellent services and service quality continued to enhance



More convenient

- China Unicom APP fully revamped, pioneering "full-range services with single click".
 MAU >120 mil
- Smart Home engineers connected with 80 mil broadband users via a single click in APP, enabling swift response



Smarter

- Offering personalized services that "know customers better" with Big Data + Al.
 Smart service ratio: 80%
- 10010 customer hotline full centralized across 31 provinces



More efficient

- Largest cBSS system among global operators, pioneering "network-wide service enabled through a single access point"
- Launched "cross-region sharing" service, enabling cross-region integration among mobile and broadband businesses



More caring

 Caring for the underprivileged such as the disabled and the elderly by adapting products and services to the needs of the elderly and the disabled



Touching moments of highquality service



Bing Dundun (Winter Olympics mascot) exclusive to China Unicom customers

"Got a Bing Dundun badge from a blind box. My first SIM card is from China Unicom. I will continue to support China Unicom."

—— China Unicom customer



Built an **industry-leading** centralized command and service deployment system for the Beijing Winter Olympics, achieving **zero fault, zero mistake and zero complaint** in Olympics service support.



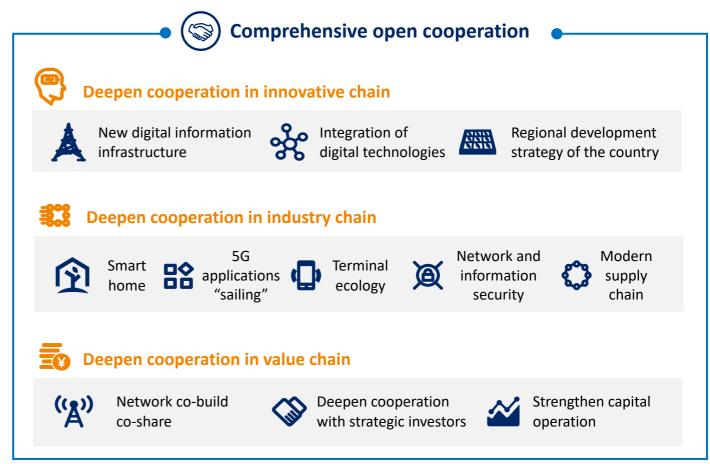
Wang Mengyun, staff of Jingmen, Hubei branch, learnt of the disabilities of customer Chen Gangyin during a visit in 2006. She then attended to him for 16 years.

Broadly Deepening Integration and Open Cooperation: Factor Integration and Market Convergence



Engage in team competition with partners to form a high-quality growth ecology





Broadly Deepening Integration and Open Cooperation: Expanding Cobuild Co-share



Efficiently enhancing competitiveness and value as well as building a green and low-carbon network



Deepening co-build co-share with China Telecom with marked achievements

Cumulative CAPEX savings for both combined RMB 210 bil

Annual electricity savings
>17.5 bil kWh

Cumulative CO₂e emission savings
> 6 mil tonne



5G co-build co-share

Built the largest "co-build co-share" 5G network in the world

690K

Shared BTS



4G co-build co-share

Focused on new-build, complementary coverage and co-location of existing BTS

660K

Shared BTS



Full co-build co-share

Drove cooperation and sharing in technological innovation, cloudnetwork integration such as IDC.

Actively advanced co-build co-share and co-maintenance of infrastructure and key business platforms such as transmission lines, pipes and fibres, equipment rooms and antennae, DAS, etc.





To steer on the main course of digital economy, striving for a new future •

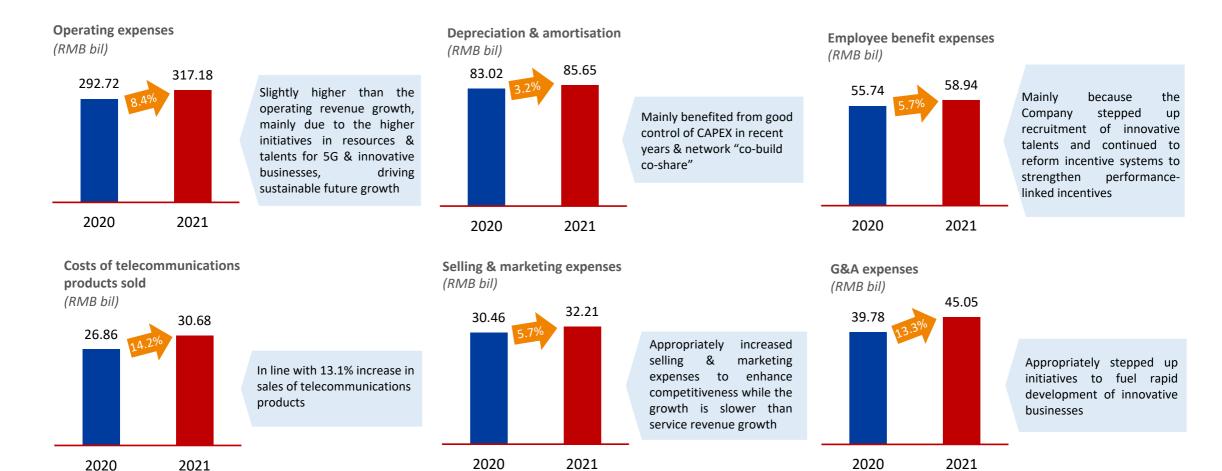
To insist on the overall working principle of making progress in a steady manner, fully implement new development philosophies, contribute to the establishment of a new development landscape and promote high-quality development. With the goal of establishing "Cyber Superpower, Digital China, and Smart Society" and adhering to the Company's "1 + 8 + 2" strategic planning, the Company will focus on its five main businesses of "Big Connectivity, Big Computing, Big Data, Big Application and Big Security", stabilise growth, optimise network, deepen reform, enhance capabilities, strengthen synergy and prevent risks, in order to create greater value for shareholders, customers and society.

OVERALL RESULTS

FINANCIAL PERFORMANCE

Analysis of Key Cost Items



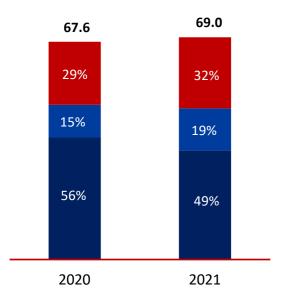


Strengthening Business-network Synergy and Supply-demand Alignment





CAPEX Structure (RMB Bil)



- Infrastrcture, transmission & others
- Fixed-line broadband & data
- Mobile network

Meticulous management of network operation expenses



Cooperation with private capital in broadband

Streamlined 2G base

stations

3G base station of single

carrier frequency >99%



Insourced network maintenance and optimisation



Promoted AI applications in network maintenance and developed >20 innovative network products, saving >RMB 1.0 Bil



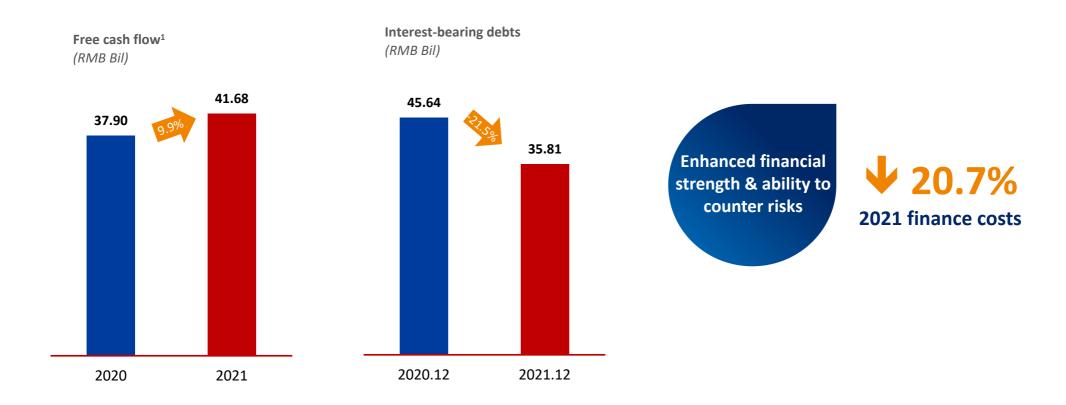
Better leveraged the favourable new infrastructure policies for 5G & IDC in different regions



Actively promoted 4G/5G collaborative intelligent energy-saving management with proprietary R&D

Strong Cash Flow & Financial Position





Note:

^{1.} Free cash flow = operating cash flow – CAPEX

Enhancing Shareholder Value through Quality and Efficiency Enhancement



Fully implement new strategy, forge head and create greater value for shareholders

Value orientation

Be value-oriented and dynamically adjust budget and KPIs to incentivize revenue and profit generation

Risk control

Establish full-process fullchain risk control system to prevent and resolve various risks

Technological innovation

Facilitate digital transformation and smart operation upgrade with technological innovation

Flexibility and agility

Build a platform-based organizational structure which is flat, coordinated, agile and connected with ecosystem

Effective incentive

Establish differentiated incentive system focusing on strategic deployments







Thank You!

For more, please visit



China Unicom 5G Industry Applications Digital Exhibitions (Chinese only)



China Unicom Innovation Experience Centre Cloud Exhibitions (Chinese only)





Appendix I: Extracts from Consolidated Statement of Financial Position



(RMB Mil)	2020.12.31	2021.12.31	
Current Assets	108,636	126,228	
Non-current Assets	471,980	464,848	
Total Assets	580,616	591,076	
Current Liabilities	222,028	236,185	
Non-current Liabilities	31,068	21,458	
Total Liabilities	253,096	257,643	
Total Equity	327,520	333,433	

Appendix II: Key Operating Metrics



		Unit	2020	2021
Mobile Business	Billing Subscribers	Mil	305.811	317.115
	Billing Subscriber ARPU	RMB	42.1	43.9
	Total Handset Data Traffic	Bil MB	36,852.6	48,716.4
	Handset User DOU	GB	9.7	12.7
	Handset User MOU	Mins	157	184
	5G Package Subscribers	Mil	N/A	154.928
Fixed-line Broadband Business	Subscribers	Mil	86.095	95.046
	Access ARPU	RMB	41.5	41.3
Fixed-line Local Access Business	Subscribers	Mil	47.339	47.193
	ARPU	RMB	10.6	10.3