#### **GSMA**

**Summit** 

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## Focusing on RedCap Scale Development, Accelerating the Prosperity of Industrial Ecology

聚力RedCap规模发展,加速产业生态繁荣

**Speaker** 



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China Mobile

Hosted @ MWC

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喻伟

中国移动通信集团有限公司政企事业部副总经理



# 聚力RedCap规模发展,加速产业生态繁荣

Focusing on RedCap scale development, accelerating the prosperity of industrial ecology

中国移动政企事业部 喻伟

Government and Enterprise Business Dept, China Mobile Yu Wei

## 5G从技术引领到规模应用,中国移动全面领跑

From technological leadership to large-scale application, China Mobile leads comprehensively

### 中国移动坚持5G创新引领,携手产业开启通信产业全球领先新时代

China Mobile persists in 5G innovation leadership, partnering with industry to usher in a new era of global telecommunications dominance

### 5G标准技术全球领先

5G standard technology leads globally

270+国际标准

**270+ international standards**Global Leader in Initiating 5G International Standards Projects among Telecom Operators

5200+56专利

5200+5G patent
Among the Top Global Telecom Operators
in Patent Amounts

#### 5G网络覆盖全球最大

The largest global 5G network coverage

220万+56基站

**2.2 million+5G base station**the 5G network scale ranks first globally, exceeding 1/3 of the world

100%56覆盖

100% 5G coverage5G coverage in urban and county areas as well as key rural towns and villages

#### 5G应用规模全球最多

**World's Largest Scale of 5G Applications** 

5亿十5G网络用户

**500 million+5G network users** world's largest user base with user penetration rate > 50%

3.9万 + 5G行业商用案例

**39000+5G industry commercial cases** leading globally in industry coverage and number of projects















## RedCap是5G规模发展的重要"催化剂"

RedCap is a crucial "catalyst" for the large-scale development of 5G

RedCap应用业内领跑,全面助力5G规模化商用,为行业提供优质普惠的网络服务 Leading the industry in RedCap applications, comprehensively supporting large-scale 5G commercialization, providing high-quality and inclusive network services for various sectors

#### 视联之城

The City of Vision



亚运会安防视联 Hangzhou Asian Games Security Vision

#### 工业之城

The City of Industry



苏州 华兴源创智慧工厂 Suzhou HYC Technology Smart Factory

#### 海域之城

The City of Ocean



**Ningde Sanduao Smart Ocean Platform** 

#### 园区之城

**The City of Parks** 



Ningbo Lihuili Hospital Park

#### 创新之城

**The City of Innovation** 



城管局环卫全周期监管

**Shenzhen Urban Management and Law Enforcement's** Comprehensive Supervision of Sanitation Lifecycle

## 加快RedCap产业成熟,全面领航规模商用

Accelerate the maturity of the RedCap industry, leading comprehensive commercial deployment

### 加速贯通RedCap网络标准、产品能力、行业应用、生态合作等产业全链条,推动RedCap在干行百业规模应用

Accelerate the comprehensive integration of RedCap network standards, product capabilities, industry applications, and ecosystem collaborations across the entire industry chain, promoting RedCap's large-scale application across various sectors and industries

Demonstration drive, application penetration

Focus on strong penetration in 8 major industries



智慧电力

**Smart Power** 



智慧海洋

Smart ocean



智慧城市

**Smart Cities** 



智慧工业

Smart Industry



Internet of Vehicles Smart Government



视频安防

Video security



Low-altitude economy

#### 产品升级 产业贯通

Product upgrade, industry penetration

Enrich terminal product catergories for diversified supply



#### RISC-V自研芯片

One RISC-V self-developed chip



10+ Communication modules



**100+ Industry terminals** 

#### 网络先行 覆盖贯通

**Network First, coverage penetration** 



Continuous network coverage in 300+ cities



20+ 5G-A行业先锋城市





Personalized Station Construction for Key Customers

## 新网络 | RedCap全面融入5G专网, 赋能干行百业数智化转型

New Network | RedCap fully integrates into the 5G private network, empowering the digital transformation of thousands of industries

### 发挥网络规模优势,依托"流量、园区、入驻、双域"四大专网,适配差异化场景需求

Harnessing the advantages of network scale, leveraging the "Traffic, Park, Settlement, Dual-domain" four major dedicated networks, adapting to diverse scenario demands

#### 全国规模最大的 RedCap商用网络

((A)) 40万+ RedCap基站 250+**个** 城市连续覆盖

The largest RedCap commercial network nationwide

400,000+ RedCap base station

250+ Continuous urban coverage

#### ① 流量专网 raffic Dedicated Network





#### **Mobile Live Streaming**

**Cloud Games** 

- High-volume data plans, high bandwidth, user-friendly
- General/purpose-specific data plan, selectable on demand, high costeffectiveness
- Integrating the QoS and DNN network for value-added capabilities

#### ② 园区专网

Park Dedicated Network





#### **Smart Cities**

**Smart Finance** 

- Municipal shared UPF, low network construction cost
- Dedicated channels for soft and hard slicing, ensuring business security isolation
- High-frequency applications integrated with 5G edge cloud for rapid and convenient deployment

#### ③ 入驻专网

On-site Dedicated Network





#### **Smart Factories**

**Smart Mines** 

- UPF, UPF+, customized core network
- High reliability, high security, high protection
- 5G LAN, dual-broadcast selection, highprecision timing

#### ④ 双域专网

**Dual-Domain Dedicated Network** 





#### Smart Education

**Smart Government** 

- Seamless access without changing cards or numbers
- Cross-province access, low latency, wide coverage
- Integrated with super SIM, national encryption technology

## 新产品 丰富RedCap自研硬件产品矩阵,锻造核心竞争力

New Products | Enrich the RedCap self-developed hardware product matrix to forge core competitiveness

### 加快自研5G RedCap芯片、模组和硬件产品上市,赋能重点行业应用场景创新

Accelerate the launch of self-developed 5G RedCap chips, modules, and hardware products to empower innovation in key industry application scenarios

### RedCap芯片

RedCap Chip



### RedCap模组

**RedCap Modules** 



#### RedCap终端

RedCap Terminal



## 新应用 | 5G RedCap赋能全连接工厂,助力企业降本增效

New Applications | 5G RedCap empowers fully connected factories, assisting enterprises to reduce costs and increase efficiency

### 面向工业客户生产设备、生产辅助设备、传感设备、安防设备,进行设备的联网与数据采集

Providing industrial customers with production equipment, production support devices, sensor devices, and security equipment, enabling device connectivity and data collection

#### 产线、车间、工厂全生产场景

Production lines, workshops, and entire factory production scenarios







Quality inspection



Positioning

#### 工业网关+OneCyber平台

Industrial gateway + OneCyber platform



#### 分散独立组网→全连接专网

Decentralized independent networking → fully connected private networkt





#### @浙江喜临门

@Zhejiang Xilinmen

#### 设备5G联网率

The 5G network connection rate of equipment

80%

#### 数据采集点位

Data collection points

>10

0

#### 一套成熟流程

A set of mature processes

#### 一张可靠网络

A reliable network

#### 一个安全平台

A secure platform

#### N个高频应用

N high-frequency applications

## 新应用 | 5G RedCap助力社会治理,实现全方位安全防护

**New Applications** | 5G RedCap Empowers Social Governance, Achieving Comprehensive Security Protection

#### 面向视频安防客户,提供实时视频监控和AI智能分析,赋能行业应用

For video security customers, provide real-time video monitoring and AI intelligent analysis, empowering industry applications

#### 社会治理监管场景

Social governance supervision scenarios



**Drowning Prevention** 



Water Body Governance



Fire Prevention



Garbage Sorting Monitoring

#### AI摄像头+干里眼平台

Al Cameras + Qianliyan Platform



#### 人防→技防+人防+物防

Manpower approach -> Al-integrated approach





#### @江苏赣榆水利局

@Jiangsu GanYu Water Resources Bureau

#### 水域覆盖率

Full coverage of water bodies

100%

#### 全年溺亡事故

Drowning accidents throughout the Year

D

#### 高性价比终端

Cost-effective terminals

#### 视频算力一张网

One network for video-computation

#### 全网智能调度

Intelligent scheduling across the network

#### AI视频智能分析

Al video intelligent analysis

# 新应用 J 5G RedCap聚焦智慧电力,提升生产管理效能 New Applications | 5G RedCap Focuses on Smart Power, Enhancing Production Management Efficiency

### 面向电力行业客户,提供"平台+终端"一站式双碳能耗解决方案,助力双碳目标实现和新型电力系统建设

Providing a one-stop "platform + terminal" Carbon-Energy Synergetic solution for power industry customers, empowering the achievement of dual-carbon goals and addressing new data acquisition needs in "source-network-load-storage

#### "源-网-荷-储"数采需求

"Source-network-load-storage" data acquisition demand

# 源-新能源场站管理 Source-new energy

station management



Load-Wear Management



management

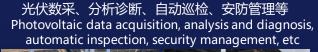
#### 电力网关+双碳能耗平台

Power gateway + Carbon-Energy Synergetic Platform



#### 数采效率低→精细化管理

Low data collection efficiency → Refined management





#### @广东华电

@Guangdong Huadian

巡检效率 Increase inspection efficiency

**1** 220%

运维成本 Reduce O&M costs

**↓15%** 

One-stop solution

一体化运维 Integrated O&M

#### 国产化程度高

High degree of localization

#### 多场景适用

Suitable for multiple scenarios

## 繁荣互促,助推5G RedCap产业成熟

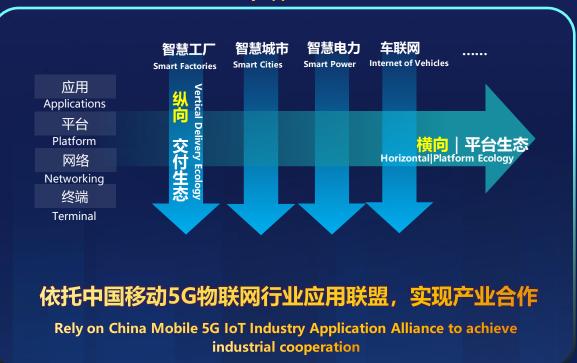
Prosperity and mutual promotion, help 5G RedCap industry to mature

### 产业成熟是商业成功的保障,我们将秉承"开放共赢"的理念,共同推进数字化转型发展

Industry maturity is the guarantee of business success, we will adhere to the concept of "open and win-win", and jointly promote the development of digital transformation

#### 基于"横纵生态"体系,构筑行业应用联盟

Based on the "horizontal and vertical ecological" system, we have constructed an industry application alliance



#### 一体拉通产业供需,共拓万亿数字蓝海

One body pulls together industry supply and demand, and jointly develops a trillion-dollar digital blue ocean



# 中国移动愿携手产业各界 共建RedCap新生态,共创5G物联新未来

China Mobile is willing to collaborate with various industries to build a new ecosystem for RedCap, jointly creating a new future for 5G IoT