

STEP INTO ALL INTELLIGENCE

5G-A

5G





STEP INTO ALL INTELLIGENCE

2024 marked the first year of commercial deployment for 5G-Advanced (5G-A), while 2025 stands as the year of leapfrog achievements. If 4G popularized the mobile internet and 5G initiated the Internet of Everything, then the convergence of 5G-A and AI is unlocking new network value by shifting focus from “bytes” to “tokens.” In 2026, we find ourselves transitioning from “basic connectivity” to “intelligent connectivity.”

The social value of communications networks manifests through the services they carry. Networks once established channels for basic services; today they bridge devices and cloud, delivering rich audiovisual experiences. Over the next decade, by supporting multimodal information across five senses, spatial and environmental perception, networks will generate richer content with real-time interaction. By 2035, it is estimated that 9 billion people will be served by 900 billion AI agents, requiring an entirely new type of network that we define as “agentic Internet.”

From China to the world, ultra-fast, reliable and innovative network capabilities are springing up, user bases are expanding

rapidly, and ecosystems are maturing day by day. The “5GA” signal icon has transitioned from demonstration to tangible services, with industries moving from pilot projects to scaled deployment. From traffic monetization to experience monetization, the synergy of **Connectivity** and **AI** is reshaping telecom business paradigms.

This collection features 9 representative global practices integrating connectivity and AI in 2025, spanning personal, home, and industrial scenarios.

In the AltoC (Consumer) domain, experience monetization is core. Agent-centric interactions demand networks with high uplink, low latency, high reliability, and high concurrency.

- In the **UAE**, LampSite-powered 5G-A indoor networks deliver HD livestreaming and cloud office experiences. Combined with 25Gbps E-band microwave backhaul overcoming fiber constraints, this forms a replicable commercial model from indoor to wide-area coverage.

- In **Beijing**, a high-low-band integrated network provides ubiquitous 5G-A experiences. With intelligent operations, this delivered “human + object + robot” network assurance for the world’s first humanoid robot sports event and Beijing marathon.

- In **Tianjin and Henan** province of China, 5G-A × AI intelligent scheduling achieves “deterministic assurance.” Users enjoy exclusive speed boosts during dense scenarios like football matches, whilst

carriers transform their business models from traffic-based to “experience-first” monetization.

- In **Zhejiang**, China, 5G RedCap with AI large models improves diagnostic accuracy while reducing consultation times, allowing premium medical resources to safeguard elderly health across 4,600 kilometers.

- In **Brazil**, MetaBlade converged antennas and iBeam intelligent beam technology achieve greater capacity, wider coverage, and lower energy consumption. São Paulo’s 5G coverage leaped from 70% to 90%.

- In **Anhui, Fujian, and Liaoning**, China, carriers have initiated the world’s first Level 4 High-Level Autonomous Networks powered by Telecom Foundation Models. AI agents enable self-healing faults, self-optimizing energy, and self-tracking beams, creating “people-centric” experiences in tourist spots and transportation hubs.

In the AltoH (Homes) domain, physical boundaries dissolve as AI home assistants are entering millions of households. Supported by “smart devices + intelligent clouds,” services like “voice-command movie streaming” and “AI health assistants” are created. Spaces upgrade from “living areas” to “family intelligent agent centers” that understand what you think and ensure every family member’s experience that permeate daily life.

- In **Morocco**, a carrier deploys “three magics” of 5G planning, 6D precise site selection, and 64T

MetaAAU to achieve leadership in coverage, experience, and value, cultivating 1 million FWA users while saving millions annually in electricity costs.

- A **Saudi** carrier built the Middle East’s first 600MHz low-band NR network, launching Mobile-Homestar services that elevate mobile gaming to home broadband quality.

In the AltoB (Business) domain, productivity transforms as carriers collaborate with manufacturers to deploy embodied intelligence for handling, assembly, and maintenance. Low-latency networks and real-time analytics enhance operational efficiency and reduce costs.

- In **Shenzhen**, China, an embodied intelligent robot serves as the “Torchbearer No. 0.” during torch relay of the 15th National Games. Meanwhile the “AoNR (Agent over New Radio)” solution enables precise identification and differentiated assurance of agent multimodal services. With ultra-large uplink and low latency, it supports scaled commercialization of embodied intelligence in logistics, retail, and power.

Exploring the unknown is to illuminate the path ahead; leaping into the future is to anchor our shared course. These case studies serve not only as a microcosm of connectivity technology’s evolution but also as a beacon of commercial value in the mobile AI era. Let us discover how intelligent connectivity lights up the future.

5G-A TURBOCHARGES EMBODIED INTELLIGENT ROBOT DEVELOPMENT

China Mobile and Huawei Jointly Innovate in Key Multimodal Agent Technologies



On November 2, 2025, the torch relay for the 15th National Games of China was simultaneously held in Hong Kong, Macao, Guangzhou, and Shenzhen. The relay featured a special No. 0 torchbearer—the world's first 5G-A-powered humanoid robot called Kuavo. This was the first time that 5G-A had been used to support embodied intelligent robots (EIRs) in mobile scenarios, representing a key breakthrough in the convergence of 5G-A and embodied intelligence technologies.

Embodied intelligence refers to a system where an agent (such as robots, drones, and smart vehicles) perceives, learns, makes decisions, and acts through real-time interaction between its physical body and the real-world environment. In September 2025, China Mobile and Huawei, leveraging the 5G-A network, has achieved the world's first innovation in differentiated network assurance for multi-type services including Agent-based multimodal applications, enabling embodied intelligence in real-world scenarios.

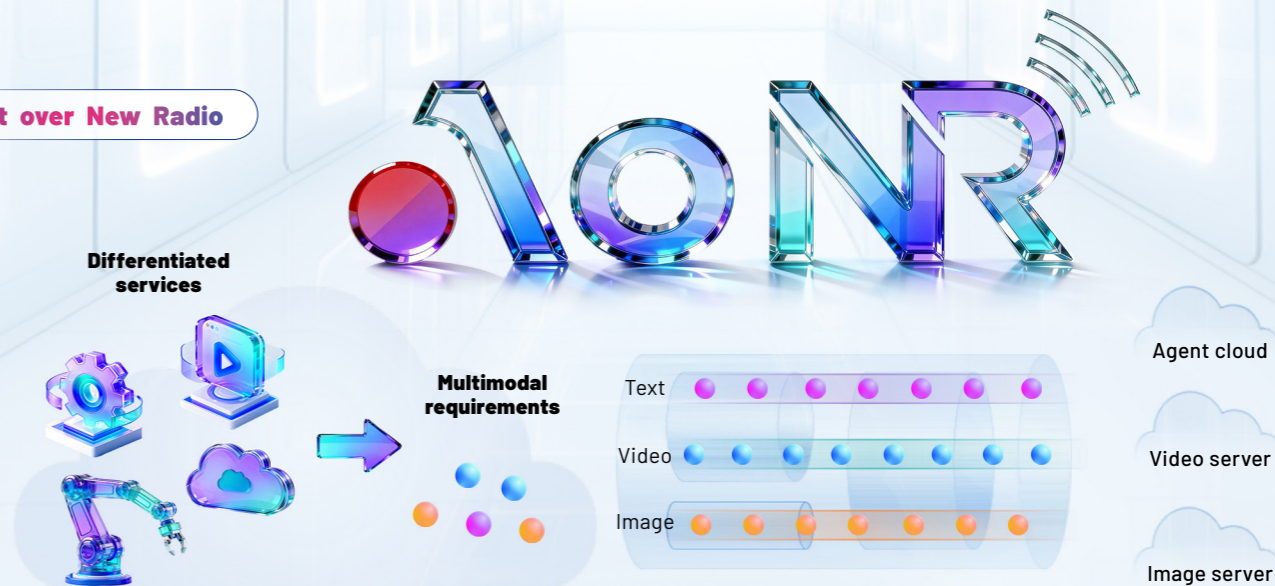
AoNR: Enabling faster data transmission for AI agents

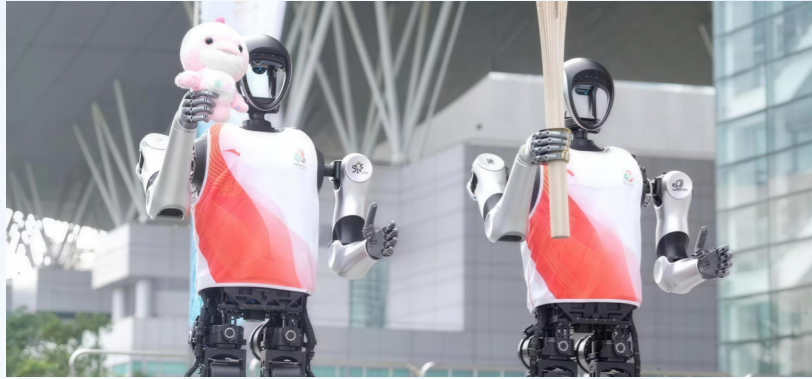
Traditional mobile networks have struggled to keep up with a sharp spike in user demand for differentiated network experiences caused by the rapid rise of mobile AI applications and multimodal interactions.

China Mobile and Huawei teamed up to tackle this issue by developing and piloting the innovative AoNR (Agent over New Radio)—a powerful ultra-broadband network solution powered by 5G-A, that can precisely identify services like AI agents and EIRs, and guarantee differentiated experience for each service.

The solution also enables 5G-A networks to deliver ultra-large uplink capacity and lower latency, so that multimodal information, including

Agent over New Radio





5G-A × EMBODIED INTELLIGENCE:

Safer work and easier life

Embodied intelligence has been trialed in a number of home and industry scenarios, including logistics, retail, and electric power. In logistics, embodied agents are being used and remotely controlled to perform tasks like package pickup and delivery via 5G-A networks. 5G-A networks are able to provide differentiated service guarantees to enable rapid robot scheduling at the flow level, including when the robots are moving at 7 km/h (1.89 m/s).

voice, image, video, and sensor data, can be stably transmitted to a “cloud brain” in real time for rapid analysis and decision-making. AoNR’s wide coverage and intelligent identification technology have improved AI agents’ scenario identification accuracy to 90%.

AI AGENT CAPABILITY PLATFORM:

Laying the foundation for device-network-cloud collaboration

The AI agent capability platform enables intelligent collaboration across networks, devices, and models, and thus improves the efficiency and intelligence level of AI services. This platform provides a unified intelligent foundation for a range of smart devices, such as EIRs, vehicle-mounted terminals, and home appliances.

Whilst device vendors focus on product design and scenario innovation, 5G-A network serves as the capability foundation. Together, both can significantly lower the barrier to large-scale commercial deployment of embodied intelligence application.

30%
Increase in the product
recommendation conversion rate

84%
Increase in substation
inspection efficiency

90%
Accuracy in scenario
identification

In retail, shopping guide robots are interacting with consumers and recommending products using natural language. In one field test, the introduction of large-model-powered EIRs increased the proactive customer interaction rate by 50% and product recommendation conversion rate by 30%. In addition, intelligent O&M systems are being used to monitor store conditions in real time, reducing average anomaly response times from 4 hours to 1 minute.

Finally, in the electric power industry, 5G-A-powered EIRs are being used to help protect the safety of frontline workers during hazardous operations. First, AoNR-powered 5G-A networks provide high uplink speeds and low latency to support the fast transmission of high-quality data, such as HD videos and sensor data, to an AI model tailored to the electric power industry. The model then promptly analyzes the data, detects faults, sends warnings, and issues execution instructions to the EIRs through cloud-edge collaboration. China Southern Power Grid is already using EIRs and 5G-A for grid inspections, with engineers remotely controlling robots’ on-site operations. This has improved the efficiency

of substation inspections by around 84%, and eliminated the need for workers to enter certain hazardous high-temperature and high-pressure environments for regular inspections.

By 2030, nearly 3 billion AI robots are expected to be used in factories and homes. Industrial robots will improve productivity by over 60%, and drive more enterprises to actively embrace intelligence. AI-assisted companion robots will be widely used in homes, and become able to perform more natural and emotional interactions and more efficient collaboration. Powered by 5G-A networks and multimodal models, EIRs will evolve from simple toys to efficient tools that serve as our partners for household chores, education, caregiving, and other common tasks. For example, EIRs with advanced visual recognition and grasping force control will be ideal for home cleaning and organization. AI agents will be able to respond to user demand within milliseconds through multimodal perception. AI voice assistants on cloud phones

can improve user experience for elderly users through voice interaction functions.

5G-A is not only a key communications technology behind EIRs, but also a driver of intelligent upgrade for EIRs. By integrating 5G-A and embodied intelligence technologies, we can reshape human-machine interaction and production models, and use AI to create benefits for society at large.

Moving forward, China Mobile plans to collaborate with device vendors and industry partners to continue deploying AoNR networks, expanding the AI agent ecosystem, and creating more models that serve different industries, ultimately building a new era of Agentverse where 900 billion intelligent agents work collaboratively with humanity.



CHINA UNICOM BEIJING CREATES NEW OPPORTUNITIES FOR GROWTH WITH 5G-A EXPERIENCE MONETIZATION



On-device AI is accelerating AI adoption in diverse industries. The collaborative application of large and small models has enabled tenfold, or even up to one hundredfold efficiency gains and has fundamentally transformed products and user experiences. This has sparked demand for technological upgrades across industries.

To meet this demand, China Unicom Beijing is working with Huawei to leverage the outstanding 5G network to build a high-quality, AI-powered 5G-A 10 Gbps network that delivers an unparalleled user experience and drives intelligent industrial transformation.

The integration of 5G-A and AI is fostering a synergistic development model, becoming a key pathway and new growth engine for the intelligent evolution of industries. On August 14, 2025, the World Humanoid Robot Games took place at the National Speed Skating Oval in Beijing, against the backdrop of the AI industry's accelerating large-scale deployment and competitive growth. China Unicom Beijing served as the exclusive global communications service partner of the event, working with Huawei to provide full 5G-A network coverage both inside and outside the venue, showcasing the powerful ability of communications networks to support emerging industries.

Outside the event venue, a 5G-A 3D network coordinated 1:1 high and mid bands to provide peak uplink and downlink speeds of 4Gbps and 11.2Gbps, respectively. Inside the venue, LampSite enabled an ultra-wide bandwidth of 300 MHz and a peak us-

er-perceived speed of 2.4Gbps. With high uplink, high reliability, and wide connectivity, the multi-dimensional network capabilities laid a solid foundation for robot operations and data transmission.

At the event, China Unicom Beijing introduced a 5G-A venue package, which gave subscribers exclusive value-added services like intelligent assurance and priority access to the intelligent network channel. Subscribers to the 5G-A package would receive a China Unicom World Humanoid Robot Games icon on their phones indicating their access to the 5GB high-speed data plan. This network package enabled a superior network experience for live streaming and instant sharing on social media.

China Unicom Beijing has extended its innovative integration of cutting-edge technology into major events from indoor arenas to outdoor events. On November 2, 2025, the Beijing Marathon kicked off at Tiananmen Square. As the official event support partner, China Unicom Beijing worked with Huawei to deploy the world's first high-uplink, AI-powered 5G-A network, providing coverage for over 90% race route. The network's average uplink speed remained steady at 20Mbps along the entire route for over 95% of the event.

For the marathon, China Unicom Beijing introduced wireless AI-powered intelligent boards to optimize network support, an industry first. This technology allows the network to identify the types of apps being used by connected devices, enabling on-demand and

scheduled resource allocation. The launch of China Unicom Beijing's region-specific 5G-A package captivated runners and fans. Subscribers would receive a China Unicom VIP icon on their phones that indicated their access to 3Gbps peak downlink and 300Mbps peak uplink speeds. Building on this event's success and insights, China Unicom Beijing used its AI-enabled intelligent operations platform to refine its intelligent network O&M for higher service quality and network efficiency.

In the era of mobile AI, the innovative integration of AI into 5G-A will continue to surge forward. China Unicom Beijing has demonstrated that network assurance and optimization driven by high-value scenarios can stimulate business growth and enhance user experience. This approach will enable large-scale development of high-value users, unlocking business value of networks.



A SHIFT FROM INDOOR TO FULL COVERAGE:

MAKING du IN THE UAE A BENCHMARK IN GLOBAL 5G-A NETWORK

With 5G-A gaining strong momentum, over 50 5G-A networks have been put into commercial use. As a pioneer in global 5G-A network commercialization, the UAE has faced numerous challenges, including intensive indoor high-value scenarios, and limited outdoor space. To tackle these complex challenges, du in the UAE has been working with Huawei to develop high-quality networks that offer full coverage. The carrier has introduced innovative solutions to enhance its network capabilities and constantly expand its business scope.

It has deployed the Middle East's first three component carrier (3CC) indoor network, introduced solutions such as Dual-band MetaAAU to improve the 3CC alignment rate of outdoor macro base stations, and achieved the world's first integrated deployment of 25Gbps E-band microwave backhaul and 5G-A network. These end-to-end innovative practices truly set du apart as a benchmark in global 5G-A network while providing a replicable commercial paradigm for high-quality industry development.

Indoor experience first: Accelerating 3CC commercialization to establish benchmark 5G-A application scenarios

The UAE is characterized by intensive indoor scenarios such as high-rise buildings, airports, and hotels. As a result, there are nearly 20% more indoor base stations than outdoor base stations. In light of users' staying indoors for long periods and a large concurrent business volume, indoor network experience determines local users' "perceived value" of 5G-A network.

To address this major issue, du UAE, together with Huawei, has taken the lead in deploying the Middle East's first 3CC indoor 5G-A network by adopting the LampSite X indoor digital solution. The multi-carrier capability has been introduced for indoor in-depth coverage and hotspots. Since the deployment, indoor uplink rate has increased by 870% to 468Mbps, and downlink rate has increased by 300% to 4Gbps. This excellent network performance has laid a foundation for more stable and efficient connections in application scenarios such as HD live streams, cloud workspace, and AR/VR in high-density scenarios.

Furthermore, LampSite base stations adopt a three-layer DIS architecture, rather than the former six-layer DAS architecture. This new architecture has helped greatly shorten the time to market and lower the total cost by 40%, laying a solid foundation for 5G-A scaled deployment.

870%

Indoor uplink rate

300%

Indoor downlink rate

188%

Download rate

17%

Number of subscribers
in a single cell



**Outdoor transmission quality improved:
Continuously improving the 3CC alignment rate,
and achieving simplified architecture alongside
premium performance via dual-band transmission**

To meet increasing demand in FWA, du keeps investing in multi-carrier alignment in terms of transmission and enhance its network capabilities. Thanks to the technical solution of a dual-band independent array, Huawei's

Dual-band MetaAAU achieves a balance between network deployment costs and performance enhancement.

According to statistics of 3CC base stations enabled on du's network in the UAE, the download rate has seen a significant 188% improvement, with uplink rate increasing by 19%. User experience has been significantly improved, network capacity has been further released, downlink and uplink traffic volumes have increased by 33% and 37% respectively, and the number of subscribers in a single cell has increased by 17%. Therefore, a virtuous circle of experience improvement, user increase, and traffic growth has been created.

On the engineering technology front, Dual-band MetaAAU provides a sustainable method for large-scale deployment. This has been achieved by integrating 2.6GHz and C-band into one device without expanding site space, thus enabling one box for two bands and overcoming antenna space limitations. In addition, Huawei's "0 Bit 0 Watt" energy-saving technical solution has been introduced to reduce energy consumption during off-peak hours through deep dormancy. In this way, operating cost optimization is considered during device capacity expansion.



**Expanding backhaul network capacity:
Leveraging 25Gbps E-band to establish a fiber-level wireless backhaul base**

In areas that are short on optical-fiber resources, conventional microwave links cannot deliver the bandwidth required for the accelerating capacity expansion of 5G-A base stations, and optical fiber deployment is constrained by high costs and long construction periods. To resolve this dilemma, du has adopted 25Gbps E-band high-capacity microwave links that can deliver fiber-level wireless backhaul. It is just like deploying an invisible aerial optical fiber cable, thus overcoming existing limitations and boosting overall network capacity and scalability.

This solution uses 2T2R E-band devices to deliver up to 25 Gbps of bandwidth per module. With intelligent beam tracking (IBT) 2D antennas, the devices can counteract typical sway and distortion at pole and tower sites even in severe weather, including high winds, heavy rainfall, and lightning, guaranteeing optimal received signal levels (RSL) and stable link performance. Additionally, the full-band convergence platform enables multi-directional 25Gbps E-band aggregation links, satisfying 5G-A peak capacity requirements and providing network scalability for future growth. Overall, 25Gbps E-band not only delivers ultra-high transmission capacity, but also offers distinct advantages in terms of deployment time, implementation convenience, TCO, and much more. It is also applicable to a wide range of scenarios, from densely populated urban areas to remote rural areas, enabling rapid construction of reliable 5G-A network.

du has defined a clear 5G-A evolution path centered on "perceptible experience, replicable capability, and end-to-end delivery." In the future, end-

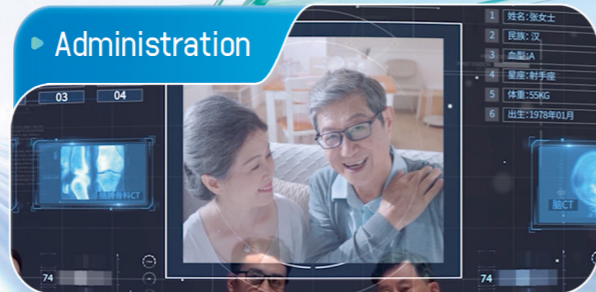
to-end 5G-A network will enable a leap in capabilities of existing network infrastructure without the need for extensive civil works, thereby establishing a strong digital infrastructure for the UAE's smart city program.

Saleem Alblooshi, Chief Technology Officer at du commented on the successful deployment: "Achieving the world's first 25Gbps E-band microwave deployment in 5G-A networks demonstrates du's commitment to pushing technological boundaries. Our partnership with Huawei delivers fiber-equivalent capacity with the flexibility and speed our 5G-A expansion demands, ensuring we can bridge connectivity gaps across the UAE—from dense urban centers to remote regions—while laying the groundwork for our 6G future."



SCAN SAFEGUARDING ELDERLY HEALTH WITH 5G REDCAP

China Telecom Zhejiang, Sir Run Run Shaw Hospital and Huawei Jointly Develop A Remote Healthcare Solution



According to the World Health Organization, by 2030, one in six people in the world are expected to be at least 60 years old. As our population becomes older and older, elderly health management will face critical challenges, including a scarcity of primary healthcare resources, the absence of closed-loop health monitoring systems, and inconvenient access to cross-regional healthcare services. However, these challenges can be ameliorated with technology, with digital resources unlocking inclusive access to high-quality healthcare services.

Hangzhou in China's Zhejiang Province, is over 4,600 kilometers away from the city of Aral, Xinjiang. Despite this, expert teams at the Sir Run Run Shaw Hospital (SRRSH), affiliated with School of Medicine, Zhejiang University in Hangzhou have been able to create a customized care plan for one critically-ill patient in Aral suffering from pancreatitis. By using 5G networks and AR smart glasses, the experts were able to communicate and examine the patient in real time. This breakthrough was made possible by the **SCAN plan—the industry's first end-to-end health monitoring and management solution for the elderly powered by device-network-cloud collaboration**. This plan was jointly launched by China Telecom Zhejiang, SRRSH, and Huawei.

The solution integrates the latest health monitoring devices, robust mobile networks, and a cloud platform linked to a chronic disease database with an industry-first AI model that is trained on years of medical case data. By combining these elements, the solution is significantly improving elderly health management services and medical care experiences, in addition to bridging urban-rural resource gaps by supporting high-quality telemedicine.

Hong Yucai, SRRSH's Emergency Department Director, says that the SCAN project team has provided a four-step pathway for elderly patients.

Screen: First, the team has the patients scan a QR code to complete a health-risk screening questionnaire.

Confirm: Next, the team provides real-time remote consultations via 5G RedCap wearables and AR smart glasses to confirm the patients' health status.

Administration: The team then provides customized intervention plans for medium-to-high-risk individuals.

Network: Finally, the team collaborates with local communities to implement grid-based health management for the broader at-risk population.

The SCAN plan has integrated risk screening, continuous monitoring, remote expert support, and community follow-ups into a seamless end-to-end workflow. Currently, the plan has reduced average consultation times at primary medical institutions from hours to minutes, while significantly improving diagnostic accuracy. From a technical perspective, **all of this was made possible by an industry-first device-cloud-network collaboration technical assurance solution.**





More effective daily care with long-lasting healthcare monitoring devices and real-time health data transmission

Unlike Wi-Fi devices which rely on fixed hotspots, the newest generation of health monitoring devices are powered by 5G RedCap, a technology that better supports wide-area connectivity and real-time data transmission.

By leveraging end-to-end encryption protocols, these devices can securely and reliably deliver health data to cloud platforms, allowing families and healthcare service providers to monitor elderly patients' conditions in real time and more quickly respond to emergencies.

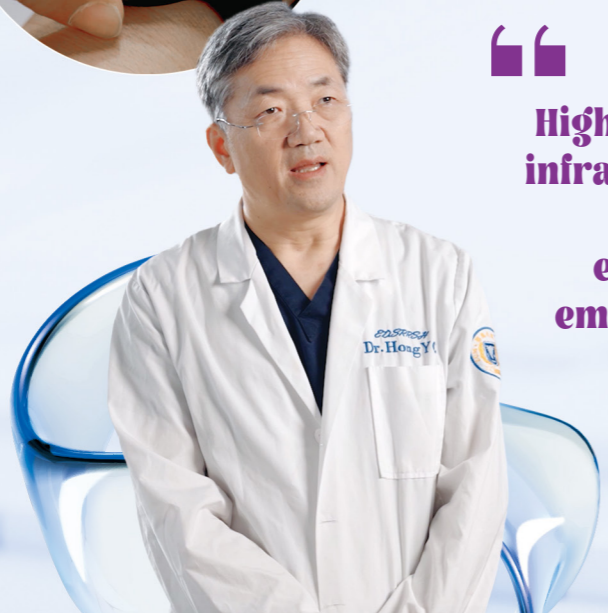
For example, 5G RedCap devices can predict atrial fibrillation (a form of arrhythmia) with over 90% accuracy. Compared to standard 5G devices, 5G RedCap devices

also offer longer battery life (over two weeks) and a streamlined architecture that reduces costs, making them better suited to meet the needs of elderly users.

Inclusive healthcare with highly-reliable and low-latency connectivity

China Telecom has now achieved continuous 5G RedCap coverage in over 300 major cities. In Zhejiang Province alone, China Telecom Zhejiang has rapidly upgraded 66,000 base station cells to ensure seamless RedCap coverage across its urban areas.

5G RedCap is highly reliable, cost effective, and consumes minimal power, providing stable high-speed network connections for real-time interaction between health wearables and backend platforms.



Highly reliable network infrastructure is crucial for the SCAN plan, especially for timely emergency responses.

Hong Yucai
Chief Scientist of the SCAN Plan and
Emergency Department Director at SRRSH



Compared with 4G devices, 5G RedCap devices deliver a significantly enhanced transmission experience with lower latency and more robust connectivity, enabling primary healthcare institutions to coordinate medical devices smoothly and support collaborative diagnosis through telemedicine.

Faster decision-making and diagnoses with SRRSH expert experience and cloud-based AI models

The SCAN plan was built on the world's first quantum-encrypted cloud platform to host medical records, device data, and diagnostic images. Combined with over a decade of data from SRRSH, this platform has enabled the teams of the hospital to develop an industry-first AI model that automatically identifies a number of abnormal indicators and types of lesions, and issues early warnings and diagnostic recommendations.

With millisecond-level coordination across devices, network, and the cloud, the SCAN plan allows hospital expert teams to focus on key diagnostic areas and make more timely decisions. Ultimately, this plan is helping establish an end-to-end collaborative system for elderly health management in China.

As of December 2025, the SCAN plan had been deployed at scale across 102 healthcare institutions in eight Chinese provinces. It has supported over 30,000 remote consultations, served more than 500,000 people.

Additionally, SCAN provides structured telemedicine training each year to hundreds of frontline healthcare workers in primary medical institutions, significantly improving the quality and efficiency of primary healthcare services.

The SCAN plan's success in shifting healthcare services from reactive treatment to proactive, home-based management

makes it a model well-suited for rapid scale-up in resource-limited regions where it can help vulnerable groups, including the children of migrant workers and cancer patients, access essential healthcare services. Through this actionable and inclusive approach, SCAN is leveraging technology to meet the challenges of an aging population and making healthier lifestyles more accessible for all.

102

Healthcare institutions in 8 provinces have deployed SCAN plan

500,000+

People have benefited from with SCAN plan



ZAIN KSA BUILDS THE FIRST MOBILE AI CITY IN THE MIDDLE EAST WITH ALL-SCENARIO LOW-BAND 5G



In 2025, 127 million tourists visited Saudi Arabia, making tourism not only an emerging driver of economic growth but also one of several forces placing new demands on the Kingdom's digital connectivity. Accelerated by Saudi Vision 2030 and the rise of flexible work and lifestyles, expectations are shifting toward reliable digital experiences that perform consistently across locations. These experiences span a wide range of use cases, from real-time language assistance for visitors enabled by multi-modal AI applications to interactive services and immersive entertainment.

However, Saudi Arabia's current digital infrastructure has been struggling to meet the surging demand, as mobile service dead zones are still quite common for a number of reasons, including the particularly-thick walls and glass-curtain walls of local buildings that cause severe signal penetration loss.

Zain KSA, a leading carrier in Saudi Arabia, has worked with Huawei to tackle this issue. Together, they have built the first 600 MHz low-band NR network outside China, which has been specifically designed to address Saudi Arabia's network performance issues. Using this network, Zain KSA has also launched an innovative service that improves user experience across gaming and other applications. Zain KSA's Mobile-Homestar service has already served as a replicable model for other markets in the Middle East.

The 600 MHz low-band NR network enables comprehensive network capability improvement

600 MHz is a uniquely important spectrum band in the sub-1 GHz range for a number of reasons. First, its signals have much stronger penetration capabilities than mid- and high-band signals. This improves network coverage in traditionally challenging 5G scenarios such as underground spaces and buildings with thick walls, addressing the problem of weak signals in indoor environments. Second, 600 MHz signals have a larger coverage radius, so fewer base stations are needed to provide wide-area coverage for cities, major roads, and remote areas. This significantly reduces network deployment and operational costs.

More importantly, the network uses Frequency Division Duplexing (FDD) and the Carrier Aggregation (CA) technology that enables it to collaborate with Zain KSA's existing mid- and high-band 5G networks using Time Division Duplexing (TDD). This way, the network combines the coverage and latency advantages of the 600 MHz band with the speed advantages of mid- and high-bands for comprehensive improvements in network performance, including higher downlink and uplink speeds, wider coverage, and lower latency.



This lays a solid foundation for real-time HD data transmission, and meets the speed and latency requirements of most mobile AI and gaming applications.



Mobile-Homestar's new network access model reshapes user experience

Zain KSA's Mobile-Homestar service over the low-band network re-defines the logic of cross-scenario network access, by leveraging the unique features of 5G-Advanced (5G-A) mobile networks, Mobile Edge Computing (MEC), and intelligent scheduling algorithms. The core advantage of this service is that it enables users to directly access their home computing power, storage, and applications via mobile devices, without using public cloud.

This is particularly useful for mobile gaming, as users can directly connect to their home devices, like a PS5 console, while they are on the move. Specifically, the home device first completes rendering for the game, and then the 1080P HD footage of the game is transmitted to the user's mobile device. This high-speed transmission is possible thanks to the large uplink bandwidth of 5G-A networks powered by FDD and TDD coordination, the shortened transmission paths achieved using MEC technology, and intelligent traffic scheduling. Ultimately, this means users can play technically demanding games on the move as smoothly as they do at home, with millisecond-level responses and uninterrupted interactions.

The Mobile-Homestar service can also be applied to many scenarios outside of gaming. Its innovative model of replacing home broadband with mobile networks breaks down boundaries between mobile network services and home broadband services, and provides users with an integrated network solution for all scenarios. Moving forward, this model can be applied to more scenarios like remote work, HD video calling, and smart home control, creating more opportunities.

Technological upgrade and service innovation set a new benchmark for Mobile AI in the Middle East

Currently, the Mobile-Homestar service is going to be ready in major cities like Riyadh. This will help Zain KSA solidify its leading market position, and created a landmark achievement for Saudi Arabia's digital and intelligent transformation.

This collaboration between Zain KSA and Huawei has verified the commercial potential of 600 MHz low-band 5G networks in consumer applications. Its success proves that low-band 5G networks can both address coverage challenges and support the large-scale adoption of innovative high-demand applications. This project pro-

vides other carriers in the Middle East with replicable and scalable technical approaches and business models. It has also created a benchmark in technological upgrade and service innovation for global carriers that will help accelerate the global commercialization of low-band 5G technologies.

In the future, as network coverage continues to expand and the device ecosystem matures, 600 MHz low-band 5G technologies will enable more industries and accelerate the realization of Saudi Vision 2030.



FROM FASTER INTERNET SPEEDS TO UPGRADED EXPERIENCE:

NEW OPPORTUNITIES FOR GROWTH WITH 5G-A EXPERIENCE MONETIZATION



Commercial 5G-A is seeing extensive development, with applications like network coverage for major events and value exploration. The main user pain point of communications services is no longer **lack of Internet access**, but **service instability at critical moments**. Offering a premium user experience is now the focus and key to success in the communications industry.

Through joint exploration with Huawei, China Mobile has identified a path for breakthroughs in experience monetization: building advanced differentiated service capabilities and transforming profound network expertise into services that are **visible, tangible, and easy to use**. This is not only a technological upgrade, but a redefinition of communications service standards through 5G-A innovation.

Event coverage: China Mobile Tianjin uses 5G-A x AI to provide high-speed assurance for the final match of the 2025 Chinese Football Super League season.

On November 22, the final match of the 2025 Chinese Football Super League season took place between the home team Tianjin Jinmen Tiger F.C and Shanghai Shenhua F.C., with the stadium packed to capacity. In this highly anticipated match that drew nationwide attention, China Mobile Tianjin integrated AI into 5G-A to deliver an immersive viewing experience with zero lag, low latency, and instant uploads to nearly 50,000 spectators in the stadium and millions of fans online.

Prior to the match, China Mobile Tianjin launched a dedicated 5G-A Tianjin Jinmen Tiger stadium package to provide differentiated network assurance to fans on site. When fans scanned a QR code to subscribe to the stadium package, the carrier logo in the upper left corner of their phone screen

instantly changed to an eye-catching icon that said “China Mobile Tianjin—Go Tianjin Jinmen Tiger!” This echoed the cheering slogans of the fans and became an exciting tech phenomenon in the stadium.

Speed tests between 5G-A stadium package user and regular user



At previous major events, it was common for images shared on social media apps like WeChat to be stuck in the loading status. This time, however, the user experience was completely changed. Fans could share their starting lineup analysis and clips of exciting goals in seconds, with a lag-free experience throughout the match.



All this was made possible by the **intelligent scheduling capability of 5G-A x AI**. For applications with sudden massive traffic bursts (e.g., photo/video uploading, live-streaming, and social media sharing), the network is often overloaded by heavily concentrated subscribers. The overly congested network often results in a poor user experience. Unlike conventional networks, China Mobile Tianjin's intelligent network can accurately identify key services like QR code scanning, instant messaging, subscription, and live-streaming and allocate network resources within milliseconds to meet service priorities. Fans can livestream, watch videos, chat on social media, and make purchases with QR codes hassle-free.

Statistics speak louder than words: 48,753 spectators were at the match that day, and the total network-wide exposure exceeded 12 million. The match topped the local trending topics on social media. China Mobile Tianjin enhanced the perception of 5G-A through star player endorsements, KOL engagements with fans, on-site interactions, and loop playback on large LED screens at the stadium.

Thanks to the traffic diversion from multiple social media platforms and the China Mobile app before the match, and China

Mobile Tianjin's innovative mechanism of C2C benefit transfer for network assurance (one purchase can be shared by multiple users), the 5G-A stadium package registered 3,817 subscriptions during the match, setting a new record. On the network side, the match livestream achieved the perfect result of zero faults and zero complaints.

China Mobile Tianjin has achieved full 5G-A x AI coverage in the main urban area of Tianjin, expediting the city's transformation into a smart city. This success story of experience monetization demonstrates the leadership of cutting-edge technologies. It also shows how to break the constraints of conventional traffic monetization and develop an ecosystem based on learned experience. This innovation has made communications services smarter and more user-friendly, setting a new industry benchmark that prioritizes user experience.

User experience upgrade: China Mobile Henan leads the upgrade to Experience Monetization 2.0 with 5G-A

While the event in Tianjin was like a practical drill, the achievement in Henan was more like a top-level design upgrade.

The communications industry is at a turning point in its shift from basic connectivity to user experience prioritization. In the consumer market, the traditional model of traffic and voice-based services has reached its growth ceiling. Simply improving network coverage and speeds is no longer enough for subscribers.



To address this bottleneck, China Mobile Henan has been proactively exploring a new experience monetization model. On December 12, 2025, China Mobile Henan and Huawei officially unveiled the "X-Experience" Joint Innovation Center and shared innovative achievements of 5G-A experience monetization in Zhengzhou, Henan. The world's first Wireless Flexible Network Grading, Interactive UE Logo, and Experience Monetization 2.0 upgrade service released at the event completely transforms user experience in two ways:

• **Wireless Flexible Network Grading:
From best efforts to definite guarantees**

In a packed concert or sports venue, network connections are usually unstable due to insufficient scheduling resources on conventional net-

works and difficulties in distinguishing service priorities. In these cases, carriers can only commit to making best efforts, and network slowdowns and lag are common.

The Flexible Network Grading solves this issue. It enables elastic resource scheduling using the large-bandwidth capacity of 5G-A, which is like providing an exclusive fast lane or emergency lane for subscribers. This ensures network stability regardless of congestion, allowing subscribers to enjoy x-fold faster speeds anytime, anywhere. Coupled with the Live View function of the mobile phone system, this new technology turns faster network speeds from intangible data into a tangible benefit for subscribers. This ensures that subscribers can enjoy faster network speeds than others and a sense of privilege in key applications at key moments.

• **Dynamically Interactive UE Logo:
From a static icon to an intelligent service entry**

In the early stages of 5G-A, a static Assurance logo would appear in the upper left corner of a user's phone screen when the user was covered by scenario-specific assurance. Now, the new UE logo has become an active service button powered by cutting-edge technology, which clearly displays this differentiated service and improves user perception.

The new dynamic experience logo was created through collaboration between devices and networks. It is not only a symbol of identity, but an entry point for smart interactive services. Subscribers only need to scroll down in the notification center and tap the logo to access an exclusive interactive page. On this page, subscribers can see package details like network acceleration rates and try or subscribe to offered benefits. What's more, the system can proactively identify the network requirements of key services through the Live View function.

For example, when you start a game on your phone, the system will ask you whether you would like to turn on game acceleration. This marks a shift from passive to active service provision.

The profound transformation from traffic monetization to experience monetization involves technologies, products, operations, ecosystems, and even organizational cultures. China Mobile's success in Tianjin and Henan has outlined a clear process with three steps: First, consolidate the foundation of 5G-A premium networks. Then, use AI to gain insights into user needs. Finally, use systematic innovation to achieve **product-based monetization** and **intelligent access** for network capabilities. This breakthrough process serves as a blueprint for the entire industry.



CHINA MOBILE ESTABLISHES THE WORLD'S FIRST L4 INTELLIGENT RAN PARKS FOR UBIQUITOUS INTELLIGENT GREEN EXPERIENCE



As global 5G-A rollout gets underway, the mobile communications industry is shifting its focus from “the connectivity of everything” to “the intelligent connectivity of everything.” This not only opens up vast opportunities for digital transformation across industries, but also imposes higher requirements on network stability and O&M capabilities: Network O&M in particular is an area that urgently needs automation, intelligence, and green transformation given the increasing complexity of network architectures, number of intelligent digital services, and efficiency demands. The ultimate goal of this new wave of O&M upgrade is the achievement of deterministic and differentiated user experience assurance.

In 2024, China Mobile and Huawei worked together to develop an innovative “AI for Networks” strategy to address these needs. They defined a development path that would integrate AI, digital twins, and other cutting-edge technologies into 5G-A networks, taking traditional human-driven network O&M model to new intelligent-native heights. The two companies were awarded the prestigious GSMA GLOMO Best Network Software Breakthrough and CTO Choice: Outstanding Mobile Technology Award in March 2025 for the groundbreaking foundation-model-powered Autonomous Networks solution they then developed using this strategy. They also began to establish **Intelligent RAN Parks** in a number of places including Anhui, Fujian and Liaoning, jointly exploring more efficient, intelligent, and low-carbon network O&M transformation paths in the 5G-A era.



Anhui Province:

10%
Lower energy consumption

5%
Increase in data traffic

Autonomous networks with tens of thousands of base stations accelerating troubleshooting and improving user experience

In the city of Hefei, China Mobile Anhui worked alongside Huawei to establish an Intelligent RAN Park that hosted more than 10,000 base stations and a wireless O&M workstation that leveraged a number of cutting-edge technologies including 5G-A, digital twins, and large models. The Park was built with an integrated closed-loop energy efficiency management system that coordinates monitoring, analysis, and control functions to achieve wireless performance optimization, quick fault locating, and dynamic energy optimization.

Data traffic at the Park has increased by 5% using minute-level intelligent management capabilities like multi-RAT, multi-band, and inter-site automatic capacity bal-



World's first 5G-A x AI smart park ushering in a new experience of all-domain sensing for tourism

In Fuzhou's Yantai Mountain Historical and Cultural Block, China Mobile Fujian and Huawei jointly established the world's first 5G-A x AI smart park, where cutting-edge communications technologies are blended with the timeless charm of the Minnan region's centuries-old streets. A uniquely designed base station is quietly changing the mobile network experience of visitors, successfully relieving the network pressure caused by the average daily traffic of 200,000 visitors. Even during peak hours on holidays, when 16,000 mobile users are online at the same time, visitors can still smoothly enjoy services such as ultra-HD live streaming and AR navigation.

This is all thanks to China Mobile Fujian's large-scale deployment of embodied intelligent base stations with all-domain sensing and network adaptation capabilities. The most eye-catching feature of these base stations is the beam tracking units (BTUs) they have

ancing, interference avoidance, and fault rectification, as well as dynamic video acceleration. The Park's fault agent is also able to provide professional guidance for site engineers that improves O&M efficiency and shortens fault rectification time by 20%. Sensing-based dynamic energy optimization is used to reduce base station energy consumption by nearly 10%, enhancing user experience to the fullest while also maximizing network value.

The Park's pilot period was conducted during the Chinese New Year holiday, when the city experienced a massive influx of people from other regions who had come to visit family. Multiple O&M and efficiency gains were recorded during this pilot, including a 37% site energy consumption reduction at subway stations that was achieved by increasing site power over the three kilometers around the station when an inbound train was scheduled to arrive, and cutting the power after it departs. Intelligently controlling the power based on the train schedule ensured passengers received high-speed and seamless Internet access, while achieving energy-saving performance that was accurate to the second.



on top. These specially designed digital intelligent antennas provide wider and more flexible coverage than traditional devices.

These base stations use large communications models to dynamically analyze network requirements, such as sensing changes in tourist distribution, Internet access service volume, and service types, and adjust and allocate optimal network resources in real time. This successfully resolves the conflict between high-density crowds and network capacity. AI agents function as the “brain” of the base stations and handle decision making and orchestration, while the digital intelligent antennas serve as the “eyes” and “hands,” conducting information input and agile execution. This “brain-hand collaboration” model enables always-on signal for users and provides differentiated user experience assurance. In addition, this solution accurately recommends and provisions experience packages for users with over 90% accuracy, achieving the optimal user experience and optimal network coverage.

The intelligence of the base stations is also reflected in their O&M management. The base stations use an intent-driven and intelligent closed-loop network architecture to implement optimal decision-making through multi-agent collaboration. Traditionally, the success or efficiency of base station fault locating depends on an engineer’s personal experience levels. However, embodied intelligent base stations can automatically identify 80% of common faults through the AI diagnosis system. Moreover, the smart park further reduces the energy consumption of individual sites by 4.12%, achieving efficient collaboration between user experience and energy savings. Here, the blending of 5G-A x AI with centuries-old architecture is helping the historical block’s tourism industry thrive.

90%+

Accuracy of experience package provisioning

80%

Common faults identified through AI diagnosis system



Fujian Province:

Liaoning Province:

World's first commercial deployment of BTUs ushering in an era of manageable and adjustable antennas

China Mobile Liaoning and Huawei have successfully deployed the world’s largest-scale BTUs for a wide range of scenarios. These new intelligent base-station devices mark a generational leap from traditional “dumb” antennas to intelligent network elements (NEs) that addresses long-standing pain points linked to antenna maintenance and optimization, including reliance on manual operations, slow adjustments, and low accuracy.

The BTUs use a high-sensitivity Antenna Information Sensor Unit (AISU) to improve the precision of engineering parameter measurement, making them accurate to the half-meter, and the accuracy of topology scans, helping them achieve 100% data completeness and accuracy. This not only replaces traditional manual site surveys and achieves 30 times greater O&M efficiency, but also enables full lifecycle management of antenna resources which gives agents real-time and accurate data inputs to support their decision making.

0.5 meter

Precision for engineering parameter measurement

30 fold

Increase in dynamic beam tuning efficiency

Furthermore, with the real-time, multi-dimensional beam-forming capabilities of the BTUs, optimization is now 30 times more efficient than with manual adjustments. This enables beams to “follow the traffic” and allows networks to “adapt to services.” Network congestion in high-traffic areas has been addressed, ensuring optimal user experience anytime and anywhere, and driving the overall traffic growth by more than 6%.



Looking ahead, China Mobile will continue to focus on technological innovation and comprehensively promote the in-depth integration and innovative development of 5G-A and AI. They will continue enhancing the intelligent capabilities of wireless networks and leverage AI to achieve more accurate intelligent optimization, more efficient troubleshooting, and more reliable service assurance. By steadily pursuing highly autonomous networks, China Mobile will build an agile, reliable, and intelligent connection foundation for digital industry upgrade.

MINIMAL DEPLOYMENT FOR OPTIMAL PERFORMANCE: **TIM BRAZIL** CREATES NETWORK MODERNIZATION BENCHMARK IN SÃO PAULO



São Paulo is Brazil's most populous and industrially dense metropolitan area, which also makes it the country's top traffic hub. The city is home to 10% of Brazil's population, but generates 20% of the country's total mobile traffic. This creates major challenges for urban network construction. Space for network sites is limited and construction can only occur during set times. This, in addition to a number of other challenges, makes network capacity expansion and site deployment difficult.

In October 2025, TIM decided to work with Huawei to modernize São Paulo's mobile network. By leveraging technical solutions like MetaBladeAAU and iBeam, the project achieved minimal deployment and optimal performance, resulting in a remarkable leap in network capabilities.



The greater capacity, wider coverage, and lower energy consumption help us provide faster networks capable of supporting data traffic growth and paving the way for future 5G and digital service innovations.

Marco Di Costanzo
TIM Brazil's CTO



70% » 90%

São Paulo state 5G coverage

50%

Overall performance improvement

13.9%

Total traffic growth



Antenna integrated MetaBlade for lighter urban sites

Traditionally, network capacity expansion would require the addition of new single-band modules to urban sites, in order to accommodate requirements for multi-band and multi-RAT evolution. As the number of equipment containers increases, so does site rental costs, power consumption, and operational complexity. Two-thirds of São Paulo state's tower sites are shared by TIM and other carriers. The costs and antenna space limitations made 5G Massive MIMO deployment difficult.

To overcome these hurdles, TIM jointly developed a MetaBlade solution with Huawei. This technology combines a 5G Active MetaAAU and a 4G Passive Antenna into a single, integrated unit, which allows for higher network capacity with less antenna space. The solution's light design, deployment requirements, and investment needs reduced energy consumption by 20% to 30% compared to traditional AAUs, improved regional signal coverage strength by 2 dB, and significantly reduced operational costs.

MetaBlade + iBeam:

Ultimate spectrum efficiency to offset spectrum scarcity

An additional challenge holding back network upgrade in the São Paulo state was TIM's access to 5G spectrum resources. This meant TIM's modernization efforts needed to focus on not only adding spectrum and equipment, but improving their spectral efficiency per unit.

With MetaBlade's antenna solution and MU-MIMO capabilities, TIM was able to utilize spatial streams that can be concurrently serviced on the same time-frequency resources more efficiently, increasing cell capacity by approximately 30%.

iBeam's higher beam resolution also enabled more precise and faster tracking and beam alignment, which improved the signal-to-noise ratio and interference control, achieving an additional 20% (approx.) capacity gain.

Together, these advancements delivered a combined 50% improvement in overall spectrum efficiency, enabling TIM to compensate for its lack of spectrum resources while also achieving exceptional overall performance.

From network to experience:

Tangible improvements in urban user experience

This modernization project involved an investment of nearly R\$1 billion and spans multiple regions of the São Paulo state. Huawei was responsible for the modernization efforts in the Greater São Paulo area, which covered approximately 3,000 sites in 64 cities. As a result of these upgrades, the network capacity in the region was increased by 40%, while overall energy consumption dropped by 15%. After deployment, TIM's daily 4G and 5G traffic grew from 317 TB to 361 TB, representing a growth of 13.9%. Even in the most challenging coverage areas, the throughput of cell edge users (CEUs) saw significant improvements. Their network downlink rate increased by approximately 20%, while their uplink rate soared by over 140%. Across São Paulo's streets and neighborhoods, users now enjoy more reliable video calls, live streaming, and instant content uploads, dramatically enhancing the mobile network experience for over 10 million users.

Thanks to these brand-new technical solutions, TIM more than doubled the number of cities served, jumping from 94 at the beginning of 2025 to 220 in October of the same year. Statewide 5G coverage also increased from 70% to 90%, while average traffic on 5G network rose from 28% in January to 34% in the same period.

This upgraded 5G SA network is now ready for network slicing and 5G-A evolution. Looking ahead, technical solutions like MetaBlade will continue to provide new problem-solving strategies for large-scale urban network modernization in developing countries, enabling carriers to achieve continuous capacity enhancements, improve user experience, and reduce energy consumption without putting undue burden on municipalities.



BEYOND CONNECTIVITY: MAROC TELECOM LEADING IN 5G ON THREE FRONTS

As the 5G wave sweeps across northern Africa, Morocco refuses to be left behind. 5G has become a key item in the nation's strategic blueprint, especially as network latency and speeds will be a critical factor in how the country experiences the upcoming major international events, like the 2025 Africa Cup of Nations and the 2030 World Cup. Morocco has committed to providing high-quality 5G network coverage to 25% of its population by 2026 and expanding it to 70% by 2030.

Despite the prospects of 5G technology, deployment is still hindered by a number of challenges, such as the high cost of modern infrastructure and optical fiber construction. Carriers need to invest heavily in the deployment of optical fibers and modern equipment. Securing the return on investment in and continuous growth of revenue from network construction has always been a key issue during 4G and 5G rollout.

To lead Morocco's digital development, Maroc Telecom worked closely with Huawei in 2025 to establish a roadmap for leading in 5G on three fronts "target network, experience, and competition" based on the vision of leading the country in 5G network, brand, and market share. This aims to create comprehensive advantages in 5G network, thereby standing out in fierce market competition.

The Target Network Blueprint shaped by three coordinations and four-phased deployment

Faced with complex market competition and limited resources, Maroc Telecom has established a clear strategy together with Huawei. Through close business-network collaboration, the parties have established a network construction methodology with three pillars: spectrum coordination, architecture coordination, and service coordination. They have also drafted a **four-phased evolution roadmap**, from brand leadership through rapid coverage to extensive promotion and deep optimization, thus laying a solid foundation for 5G development.

The focus of spectrum coordination is optimal resource utilization. By efficiently integrating large-bandwidth C-band with existing medium- and low-frequency resources, Maroc Telecom will build a wide-coverage and high-capacity 3D network that combines high- and low-frequency bands. Architecture coordination is aimed at protecting long-term investment. The simplified site design that supports evolution to both NSA and SA is adopted, which will pave the way for smooth



evolution to 5G-A and beyond. Service coordination targets business needs. Network planning is closely aligned with business growth paths, focusing on services like mobile broadband, FWA (fixed wireless access), and industry digitalization. This will link revenue growth directly to network construction.

On the basis of the three coordinations, Maroc Telecom has further planned four-phased deployment to advance 5G network construction step by step. During Phase 1 of this strategy, Maroc Telecom plans to establish their brand leadership by launching 5G in eight core cities, and by focusing on communications assurance for the Africa Cup of Nations. Phase 2 will see the rapid expansion of network coverage to other major cities. During Phase 3, they will launch 5G to all remaining cities in the country and focus more fully on C-band deployment. Finally, in Phase 4, Maroc Telecom will focus on SA evolution to maximize network coverage and optimize user experience. This strategy of network expansion and optimization will ensure they are able to build up a sustainable competitive advantage at the country's earliest stages of 5G deployment.

20%

Network construction efficiency

10%

User experience

5%

Traffic volume

1 million

FWA users

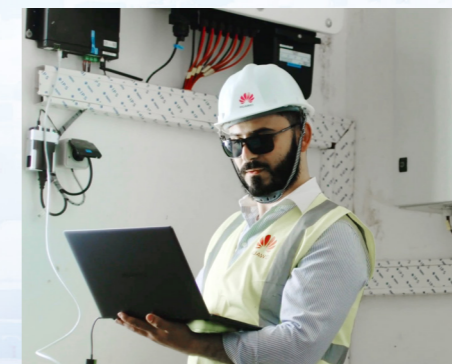
The "6D" Precise Site Selection model showcasing the key to efficient network construction

With this clear top-level design, how can Maroc Telecom precisely invest in the most valuable areas? It has introduced Huawei's innovative "6D" Precise Site Selection model. This model comprehensively analyzes data from six dimensions: 5G terminal penetration, high-value user distribution, 4G user base, network congestion status, traffic demand hotspots, and home broadband, and assigns appropriate weights for quantitative evaluation.

Using this data-driven value detector, the two parties identified more than 1,200 high-value sites in core cities such as Rabat, Casablanca, and Tangier, which will be the first batch of clusters marked for continuous 5G coverage. Deployment has since begun implementation following this plan to ensure that resources can be preferentially concentrated in the areas with the highest scores. This is a significant deviation from traditional network construction models, shifting away from relying on "past experience" and towards "intelligent data analysis". It has greatly improved the investment efficiency and deployment precision of C-band networks and ensured the rapid improvement in the 5G user camping ratio and service experience.

64T MetaAAU leading the way in creating a generation-level advantage in user experience

In the end, premium user experience is the key to success in this market. To this end, Maroc Telecom has also chosen to deploy Huawei's unique flagship product, the 64T64R MetaAAU, which uses extreme large antenna array technology. Thanks to the ultra-large array (hardware) and innovative beam algorithms (software), MetaAAU offers approximately 3dB higher uplink and downlink coverage compared to traditional massive MIMO products. MetaAAU is especially adept at resolving the issue of deep coverage in complex urban scenarios, ensuring continuous C-band coverage and improved 5G user experience by 10%.



So far, tests have proven the advantages of this choice. In core cities such as Casablanca and Rabat, Maroc Telecom's 64TMetaAAU-powered networks have seen a significant increase of its average downlink rate from 295Mbps to 463Mbps, helping them establish a comprehensive lead in key experience indicators. According to third-party evaluations, Maroc Telecom has developed into a carrier that provides the best user experience in the TDD frequency bands in these areas. It has redefined the market benchmark that is at least a generation ahead of the competition and reshaped its brand image as a network leader.



STEP INTO ALL INTELLIGENCE



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