GSMA

ASIA PACIFIC
5G Industry & IoT UPDATES
Oct 2024

APAC 5G
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**5G Revolution:
Transforming Connected
Industries in APAC**

Eight case studies showcasing the versatility and impact of 5G technologies

September 2024

APAC 5G
INDUSTRY COMMUNITY

Eight case studies showcasing the versatility and impact of 5G technologies. This collection of case studies showcases the transformative impact of 5G technology across various industries in the Asia-Pacific and China region. These examples demonstrate that 5G is not just enhancing existing capabilities but fundamentally reshaping industrial landscapes.

The deployment of 5G has led to significant advancements in multiple sectors. In Hong Kong, it has improved operational efficiency in maritime communications, enhanced safety and response times in firefighting operations. In Macau, 5G has elevated user experience and efficiency in scientific research. In Singapore, it is transforming healthcare by increasing surgical precision and improving patient outcomes. In Indonesia, 5G enhances warehouse operations through automated systems, digital twin simulations, automated guided vehicles (AGVs), and AI-powered CCTV. Lastly, in Thailand and Malaysia, it drives digital transformation in manufacturing, achieving remarkable levels of automation and efficiency.

Each narrative showcases the essential role of collaboration among telecom operators, technology providers, and industrial sectors, demonstrating that the successful deployment of 5G technology relies on multi-stakeholder partnerships. These collaborations are crucial for overcoming the complexities of 5G deployment and maximizing its potential benefits.

As 5G infrastructure continues to expand, its capacity to empower industries and transform business models increases, converting challenges into opportunities for innovation and economic growth. The case studies presented offer a forward-looking view of how 5G technology is paving the way for a more connected and efficient future, underscoring its significant impact on economic development in the Asia-Pacific region and beyond.

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APAC 5G Industry Community spotlight

Comms Connect in Melbourne on 16-17 Oct

Major conference and expo for critical comms and public safety professionals in the Southern Hemisphere.

Join us

M360 APAC 2024 in Seoul

The 2-day conference opened with the launch of the GSMA Digital Nations Report, charting the digital transformation of 18 countries across Asia-Pacific.

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Joint mobile & healthcare 5G workshop in HIMSS APAC

Tech and health leaders discussed the diverse applications of 5G, powering the next evolutionary stage of healthcare in APAC during the HIMSS Asia-Pacific Conference in Seoul last week.
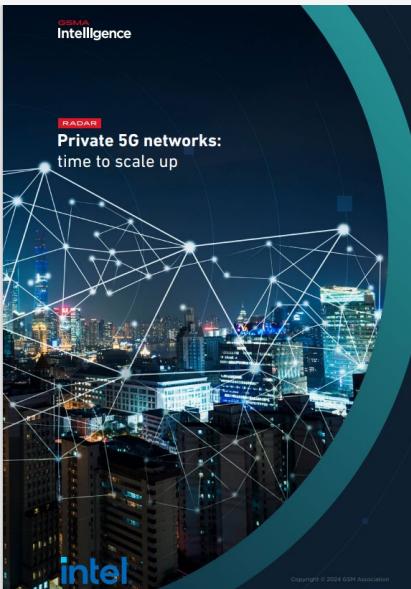
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Second year Digital Nation Summit in Jakarta

Regulators and industries committed to accelerating Indonesia's industrial digital transformation through 5G use cases and ecosystem collaboration in manufacturing and mining sectors.

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APAC 5G Industry Community spotlight

Private 5G networks

Time to scale private networks.

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Spectrum Assignment

Importance of 6 GHz to Evolution.

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Telkomsel Pioneers 5G-Enabled Robotic Telesurgery in Indonesia

5G broadband connectivity to support digital transformation, particularly in healthcare.

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Huawei explores the use of RedCap in various scenarios

RedCap technology can reduce 5G NR module costs by 80%

Read more

Industry Interest group resources

Manufacturing

- How manufacturing, production and industrial companies work with telcos to accelerate their digital transformation -GSMAi
- Operators in Focus: Manufacturing, Production and Industrial Sectors Survey Dashboard 2024 - GSMAi

Logistics, Port and Transportation

- The Next Phase for Commercial Telematics - Quectel
- Automotive Chip Market Forecast to Reach $88B by 2027 - EE Times Asia
- Digital Twins (White Paper) - aecc.org
- Unveiling the Top Trends in the Railway Industry - Nextcontinent

Healthcare

- Transforming Healthcare w High Performance, Adaptive Computing - AMD

Mining, Energy & Utility

- Special Issue: Smart Connectivity for Utilities and grid
- Gastech 2024: AI reducing costs, enhancing operational efficiency for offshore oil and gas production | Offshore

Public Service & Smart City

- When cities get smart, life gets easier – Kore Wireless

Others

- Revisiting 5G monetisation: upping the experience - GSMAi
- Satellite and NTN tracker, Q3 2024 -GSMAi
- Telco AI: State of the Market, Q2 2024 - GSMAi
- How financial services companies and telcos work together to accelerate convergence of mobile and fintech - GSMAi
- Operators in 15 countries already investing in RedCap: GSMA
- ABI Research forecasts 80M 5G RedCap IoT module shipments by 2029
- Connected IoT devices tipped to approach 19B in 2024
- Operators tipped to cash in on 5G IoT roaming
- Private 5G in 2024: Key growth trends, use cases, forecast - iot-analytics
- The top 10 IoT Use Cases - iot-analytics
- 5G Security Software Revenues will triple in the next five years Years
- 5G FWA Takes Mobile Ecosystem Spotlight in August 2024 - Futurum
- Ookla on the competitive advantage of 5G standalone
- Spotlight AsiaPacific September 2024 - GSA

5G & IoT Market News

Asia Pacific

- [Rising Demand in China, India Propel Global Cellular IoT Module Market](#)
- [ACCC approves TPG, Optus network sharing](#)
- [Thailand to award bands for 5G-A, 6G in Q1 2025](#)
- [Telkomsel inks connectivity deals with carmakers](#)
- [ZTE, Smartfren partner on AI RAN integration](#)
- [Maxis partners with HPE to offer 'AI-powered' networking](#)
- [DNB, Ericsson enhance autonomous bus experience with 5G](#)
- [StarHub and NUS to build 'borderless university' in Singapore](#)
- [StarHub puts NTT Docomo's Open RAN through its paces](#)
- [Singtel, Ericsson put F1 fans in pole position with new 5G tech](#)
- [Singtel and GMI Cloud partner to expand GPU capacity in the US and Asia Pacific](#)
- [Singtel, SKT target the cloud GPU business](#)
- [Sinch Partners with Singtel to launch first RCS business messaging (RBM) service in Singapore](#)
- [Singapore and India Ink MoU on Semiconductor Ecosystem Partnership](#)
- [Viettel turns to Nokia for 5G](#)
- [Ericsson and VNPT to collaborate on network APIs to spur innovation in Vietnam](#)
- [Vodafone Idea strikes $3.6B deal with vendor giants](#)
- [Airtel reaches 140,000 villages in India with 5G services](#)
- [Airtel, Nokia and MediaTek claim 'new benchmark' in 5G performance](#)
- [Reliance Jio Infocomm trials 5G network slicing in India](#)
- [KT strikes multibillion-dollar AI deal with Microsoft](#)
- [Korean telcos form triumvirate to standardise their APIs](#)
- [Samsung expands IoT partnership with Hyundai, Kia](#)
- [Hyundai Unveils AI-Driven Vision for Smart City of the Future](#)
- [KDDI taps Starlink to speed tunnel works](#)
- [SoftBank-Toyota venture to take self-driving cars to Tokyo streets](#)
- [SoftBank, Intelsat hatch 'ubiquitous' 5G plan](#)
- [SoftBank plugs into Eutelsat's OneWeb LEO constellation](#)
- [Driverless Bullet Trains to Debut in Japan by 2029](#)
- [New York, Hong Kong trains get Hitach Rail 5G makeover](#)
- [Private 5G: Enabling Smart City New Innovations| NTT Hong Kong](#)
- [Roaming rebound and 5G FWA save SmarTone blushes](#)
- [China targets mobile IoT connection hike](#)
- [China Telecom and ZTE pioneers a new era for smart city parks with 5G-A technology](#)
- [Celona expands private 5G network reach into China](#)
- [Huawei smart auto business Yinwang sells 10% stake for $1.6B](#)
- [Tesla to Bring Full Self-Driving Tech to China, Europe in 2025](#)

Global

- [GSMA tackles AI ethics with industry-wide initiative](#)
- [5G neutral host private networking gains prominence in the U.S](#)
- [Verizon connects Vay's remote-controlled EVs with 5G](#)
- [Verizon Frontline survey shows first responders are optimistic about 5G, AI](#)
- [Verizon scores deal with FIFA for next World Cup.](#)
- [T-Mobile introduces 'T-Priority' featuring the world's first network slice for first responders](#)
- [NTT Data deploys citywide private 5G and IoT in Brownsville, Texas](#)
- [Band 106 Standardization in North America Enables 5G For Utilities](#)
- [Commissioner Carr critical of FCC's revised 5G Fund rules](#)
- [FCC starts application process for IoT labelling](#)
- [Itron to test private cellular for smart metering](#)
- [Drones Get New FCC Rules for Better Management](#)
- [CAMARA releases first official batch of APIs](#)
- [Top operators, Ericsson form 5G API supergroup](#)
- [T-Mobile US and Deutsche Telekom launch joint network API challenge](#)
- [Vodafone deploys 5G MPN at nuclear power plant in European first](#)
- [Vodafone & Kigen accelerate global enterprise IoT connectivity with iSIM](#)
- [Vodafone, Intelsat expand satellite services for private and public sector](#)
- [Eurobites: EE launches 5G standalone in 15 UK cities](#)
- [Free Mobile claims first 5G SA network in France](#)
- [Deutsche Telekom gears up for 5G standalone launch in 2024](#)
- [5G powered robot put to work in German vineyard](#)
- [Citymesh ramps up 5G drone operations for Belgian emergency services](#)
- [Ooredoo, OWS Automotive plot route to smarter transport](#)
- [Huawei and du commercially deploy indoor 5G-Advanced network](#)
- [Nokia combines with e& on industrial AI in UAE, signs AI Pact to facilitate AI Act in EU](#)
- [MTN, ZTE claims Africa's first 5G maritime coverage](#)
- [Nokia unites with Rockwell on 5G for Industry 4.0](#)
- [Nokia intros sustainability calculator to show private 5G's green creds](#)
- [Ericsson unveils strategy for enterprise-driven 5G network adoption](#)
- [Ericsson prepares 5G rail industry push](#)
- [Eurobites: Ericsson sees space as the final 5G frontier](#)
- [A SWOT analysis of generative AI in Industry 4.0 – by Fujitsu](#)
- [NETGEAR launches WiFi 7 5G Mobile Hotspot](#)
- [u-blox satellite 3GPP IoT-NTN cellular module](#)
- [Assembling rebel alliances to compete in the new NTN economy](#)

Best regards,

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