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Who's Winning the Al Race? Meet APAC's Top 10 Telcos

A benchmark report uncovering the telcos leading AI transformation across Asia Pacific

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Background

Telcos across Asia Pacific face slowing revenue growth, even as capital expenditures continue to rise. In this shifting landscape, the region's leading telecom operators are no longer content with being just connectivity providers.

The **Top 10 APAC Telcos to Ace AI** report highlights how these companies are transforming into AI-powered technology enterprises, unlocking new sources of value and competitive edge. This study consolidates strategic initiatives, AI investments, ecosystem partnerships, and implementation progress to provide a comprehensive view of telcos' AI transformation and maturity.

Purpose of the report

01

Provide actionable insights into the AI strategies, roadmaps, and investments of APAC telcos.

02

Benchmark 34 telcos' AI maturity across 6 key components and 30 sub-components. 03

Identify success factors, gaps, and best practices shaping AI leadership in the telecom industry.

Target Audience



Executives seeking strategic insights into AI-led telecom transformation plans.



Technology leaders and innovators driving AI adoption within telecom and other operations.



Researchers analyzing AI maturity and deployment trends across telecom ecosystems.

The role of telcos are shifting in the AI era

AI Value Chain for Telcos















Chipset and Hardware Manufacturing AI Embedded Products & Services

AI Model Development & Training AI Model
Deployment
& Execution

AI Applications (Outcome vs Function-based)

AI Services AI Governance

Chipset
manufacturers
design and produce
specialised
processors to
support AI
workloads.

Existing telco stack embedded with AI capabilities (i.e., infrastructure & applications)

- Data Collection
- AI Platforms
- AI Development Frameworks
- Training Infrastructure
- Foundational Models
- Model Tuning & Optimisation

- Where the AI models are deployed:
- On-premises
- Cloud platforms
- Edge computing platforms
- IoT solutions
- End-user device

Outcome-based:

Decision vs Action Co-pilot & Software vs Physical Action

Function-based: CX, InfraOps, SecOps

cX, IntraOps, SecOp vs Telco, Banking, Government

Types of service:

- Consulting
- System integration
- Managed services
- Cloud

Setting proper AI guardrails:

- Security & Compliance
- Monitoring & Maintenance
- Feedback Loop and Iteration
- AI Ethics and Bias Mitigation





























Measuring AI maturity with a 6-part framework

Strategic Alignment	
People & Processes	
Technology & Applications	
Data Manageme	!
AI Governance	

Foundational Level 1

No AI strategy or roadmap

No dedicated AI team or individual AI champion exist

No AI tools or platforms evident in operations

No AI governance, risk

or ethics measures

present

Minimal AI

experimentation; no

formal process

Fragmented, inconsistent data with ement no governance

Risk & Ethics

Innovation &

Emerging Level 2

AI mentioned in isolated pilots; no clear alignment

Small pilot teams or individual AI champion exist

Piloting selected AI tools with limited system integration

Initial data hygiene practices; partial data unification efforts

Early awareness; informal guidelines or discussions

Isolated pilot projects

Developing Level 3

AI goals and roadmap defined for some business units

Formal AI roles and pilot team structures established

Operational AI platforms deployed in key areas

Centralized data platform with governance in place

Defined governance policies: basic risk framework

Formal AI experimentation pipelines established

Advanced Level 4

AI integrated into business strategy across functions

Cross-functional AI teams embedded across operations

Integrated AI solutions across multiple business units

Real-time, integrated data pipelines supporting AI

Comprehensive governance covering ethics and compliance

Innovation labs and programs testing new AI solutions

Transformational Level 5

AI drives enterprise-wide differentiation and growth

AI culture embedded: AI-led decision making-enterprise

Proprietary AI tech stack embedded in product & services

Enterprise-wide data governance: data as strategic assets

Proactive AI governance with fairness audits and transparency

Continuous AI innovation embedded in enterprise R&D

Experimentation

experimenting with AI



Presenting the top 10 APAC telco leaders in AI

The telcos we studied in this Asia Pacific analysis indicates a strong potential for the region to meaningfully contribute to the global AI phenomena. Today, these connectivity providers are not just adopting AI for the productivity and efficiency gains—they are rearchitecting their core to become AI-native enterprises to gain from business model disruptions.

From SoftBank's AI chip investments to SK Telecom's sovereign AI infrastructure play and Indosat's mission to make AI a national agenda, these leaders are aggressively moving beyond experimenting with POCs and are starting to scale projects.

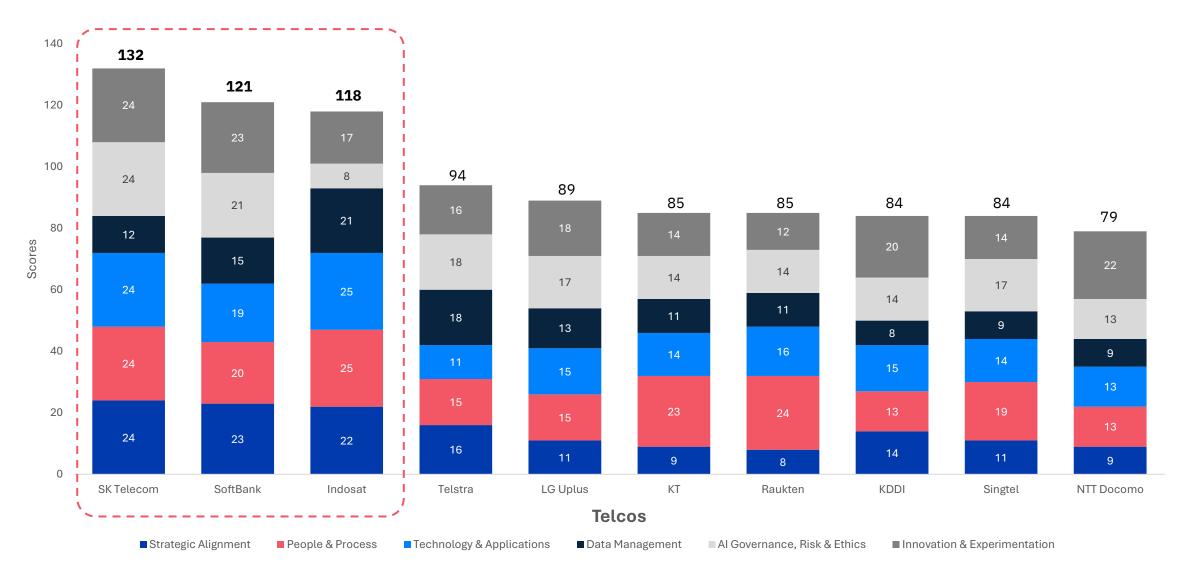
From our research, we see that leaders invest significantly to ensure that every facet of AI adoption is done right: from building alignment across strategy and operations, designing the right technology and data architecture, ensuring governance is baked into development and production, and developing new-age operational models to drive execution.

What sets them apart is not the technology alone, but the ability to integrate AI into business outcomes—driving efficiency, innovation, and new value creation across the telecom stack.

Telcos	Rank
SK telecom	1
SoftBank	2
indosat ooreboo Hutchison	3
Telstra	4
⊕LGU ⁺	5
kt	6
Rakuten Mobile	7
(A)	8
Singtel	9
dŏcomo	10



SK Telecom, Softbank and Indosat are leaders in the region





Leaders set the gold standard across six pillars of AI maturity



Strategic Alignment

- Clear AI vision aligned to enterprise goals
- KPIs tracked at board/executive level
- Cross-functional alignment between business and tech units



People & Processes

- Federated AI CoEs embedded across functions
- Upskilling across all levels, not just technical teams
- Roles and responsibilities clearly defined for AI delivery



Technology & Applications

- Integrated MLOps and cloud-native AI platforms
- Enterprise-wide GenAI/LLM deployment
- AI embedded in core product and service stack



Data Management

- Unified data platform supporting model training and deployment
- Data treated as a strategic asset
- Strong data governance policies and access control



AI Governance, Risk & Ethics

- Explainability, fairness, and bias checks integrated
- Global compliance (e.g., ISO 42001, GDPR, PIPA)
- Ethics frameworks enforced by dedicated governance councils



Innovation & Experimentation

- Dedicated AI labs for testing new ideas
- Co-innovation with startups and ecosystem players
- Internal metrics to track PoC conversion and scalability



AI-driven Telco Highlights

Key AI deployments from the telco leaders in APAC



Let the network think for Itself

Rakuten Mobile

AI maturity score



SK Telecom

AI maturity score

132

Champion zero-touch network automation

Rakuten operates the world's first fully virtualized mobile network, eliminating the need for traditional legacy infrastructure.

Its **AI-powered, cloud-native architecture** enables a zero-touch, zero-defect approach to network operations — automating fault detection, traffic optimization, and performance scaling in real time.

Automate and predict network performance

SK Telecom uses its AI Orchestrator network platform to proactively monitor, predict, and self-heal network anomalies.

By integrating **AI into 5G infrastructure** management, SKT improves uptime, ensures faster response to faults, and delivers seamless connectivity with predictive capacity allocation.

Redefine customer support with AI agents

Indosat

AI maturity score



Singtel

AI maturity score



Build multilingual, intelligent support at scale

Indosat's **virtual agent platform**, powered by NLP and multilingual AI, handles millions of customer queries across Bahasa, English, and local dialects.

By combining automated intent detection with personalized routing, the platform reduces wait times and increases first-contact resolution — improving overall CX efficiency.

Elevate experience with AI-powered self-service

Singtel integrates **conversational AI and analytics** across its contact center to support tier-1 service queries and track customer sentiment.

With **automated resolution journeys** and real-time escalation triggers, the telco delivers faster, more personalized customer support.

Build intelligent infrastructure to scale AI

SoftBank

AI maturity score



Telstra

AI maturity score



Invest in sovereign AI to future-proof infrastructure

SoftBank is building a **Japan-first LLM** stack via partnerships with companies like SB Intuitions and OpenAI Japan.

With investments in **domestic compute capacity** and specialized AI chips, SoftBank is localizing AI infrastructure to ensure data sovereignty, scalability, and ecosystem control.

Establish enterprise-wide AI enablement layers

Telstra has built a **centralized AI infrastructure stack** supporting machine learning operations (MLOps), scalable cloud models, and enterprise LLM integrations.

The telco's **AI@scale** architecture enables rapid experimentation, automation, and deployment across network ops, customer experience, and product innovation.

Turn AI into products and revenue

KDDI

AI maturity score



NTT Docomo

AI maturity score



Launch AI-powered super apps for daily life

KDDI is transforming user engagement through 'au PAY', an AI-powered super app integrating lifestyle services like taxi booking and restaurant reservations.

By embedding AI into **digital touchpoints and payment ecosystems**, KDDI personalizes experiences and drives cross-service stickiness.

Use AI to create smart & Connected ecosystems

NTT Docomo has built **AI-enhanced digital twins** and contextual services for smart cities, using predictive analytics and location-aware intelligence.

It is also investing in **open API platforms** and LLM-based solutions to power new service models across mobility, energy, and retail.

Top 10 Telcos Driving the APAC AI Revolution

Summarized profiles of telco leaders in AI





SK Telecom | AI Transformation

SK Telecom is working to integrate AI in all realms of business and establish the needed infrastructure.

Ryu Young-sang

Chief Executive Officer, SK Telecom





Key AI pillars	Objectives	Implementations
AI Innovation & Services	Scale AI assistants (A., Aster) for global user engagement	Partnered with Perplexity & Anthropic; launched A (dot) and Aster with agentic features like AI phone and summaries
Enterprise AI Integration	Embed AIX tools (A.Biz, Telco LLMs) to boost productivity across SK Group	Deployed AI contact centers, legal automation, and AI-driven customer support across 21 group affiliates
AI Infrastructure Development	Establishing hyperscale AI data centers (AIDCs) in South Korea, with a testbed launching in Pangyo	Sapeon's X330 AI chip, delivering 2x computing power and 1.3x efficiency over current inference chips

Major investments

USD 200 Mn data center

Invested USD 200 Mn in SGH, a US based integrated AI data center solution provider

Invested in Anthropic

Invested USD 100 mn to develop LLM focused on creating advanced AI models

Investment in Perplexity

Invested USD 10 Mn to develop personalized AI assistants and personalized search experiences

Twelve Labs

Invested in AI-powered video analysis startup for enhancing its capabilities in analyzing video content

Sapeon X330

Developing next-gen AI chip 'X330' which has 1.3 times better power efficiency





Partnerships



perplexity Partnered with Perplexity AI to develop personalized **AI** assistants

Integrating generative AI into its services, to enable personalized AI assistants for users to improve AI-driven search capabilities, allowing for more intuitive, efficient, and context-aware search experiences across various platforms.



Collaborated with Lambda to establish large-scale NVIDIA GPU clusters

Building high-performance computing infrastructure using NVIDIA GPUs to accelerate AI model training and inference. This initiative enhances SK Telecom's AI cloud capabilities, providing scalable and efficient computing power for AI applications across industries.



PENGUIN Joined forces with SK hynix and Penguin Solutions to advance AI data center solutions

Driving innovation in AI data centers by integrating memory solutions and high-performance computing architectures.

AI Deployments

AI Network Quality Prediction

Intel-powered AI detects network anomalies for proactive maintenance.

AI Contact Centers

Proprietary LLM-powered customer support with RAGenhanced knowledge retrieval.

Intelligent Document Processing

AI automates document categorization & customer service workflow.

Governance & Compliance

- T.H.E. AI Principle (March 2024) By Telco, for Humanity, with Ethics AI → SKT's AI responsibility framework.
- ISO/IEC 42001 Certification (April 2024) First Korean telecom to achieve international AI governance certification.





SoftBank | AI Transformation

Artificial Super Intelligence will evolve into Super Wisdom and contribute to the happiness of all humanity.

Masayoshi Son

Chief Executive Officer, Soft Bank



AI Infrastructure

Development

Key AI pillars	Objectives	Implementations
AI Innovation & Services	Invest in cutting-edge AI & deliver commercial AI platforms	SoftBank Vision Fund focuses on AI startups revolutionizing telecom, finance, mobility, and automation.
Enterprise AI Integration	Embed Cristal Intelligence across SoftBank corporate ecosystem and Japanese enterprises	SB OpenAI Japan JV will deploy Cristal & ChatGPT Enterprise tools initially at SoftBank, Arm, PayPay — then to clients
	Build large-scale AI infrastructure	Combining on-premises A systems with cloud-based NVIDIA GPU clusters; co-

leading \$500B Stargate

Center

project and Sakai Brain Data

to support SoftBank's AI

ambitions.

Major investments

OpenAI Partnership

Formed a joint venture, SB OpenAI Japan which has USD 3bn annual budget for AI implementations in Arm, PayPay and enterprise clients

Strategic investment in avatarin Inc

Made strategic investment in July 2024 to accelerate development of its new customer service solutions.

Graphcore Acquisition

Acquired UK-based AI chipmaker Graphcore for USD 500 mn

AI-Driven 5G Optimization (AITRAS)

Enables AI-powered network automation and energy efficiency with NVIDIA Aerial RAN Computer-1 and Grace Hopper Superchips, cutting power consumption by 40% and increasing 5G uplink throughput by 20%





Partnerships

SOpenAl

Established SB OpenAI Japan, a 50-50 joint venture with OpenAI

SoftBank and OpenAI launched SB OpenAI Japan, a joint venture aimed at delivering AI-driven solutions to businesses across Japan with an annual budget of USD 3 bn.

avatarin

Strategic investment to develop new customer service solutions

Partnership aims to focus on developing and advancing multimodal AI agents to enhance customer experiences in airports and public spaces, leveraging human expertise for more intuitive, responsive interactions.

GRAPHCORE

Acquired UK-based AI chipmaker Graphcore for approximately USD 500 mn

Acquired major stake in the AI semiconductor company to enhance SoftBank's AI hardware and infrastructure portfolio.

AI Deployments

Hybrid AI Computing Model

On-Premises AI Systems integrated with cloud-based NVIDIA GPUs

AI compute clusters featuring NVIDIA DGX SuperPOD with 25.7 exaflops total capability

AITRAS (AI-Driven RAN Architecture)

AI-powered telecom automation using Red Hat OpenShift & NVIDIA AI Enterprise

Real-time AI inference for autonomous vehicles and robotics control

Governance & Compliance

- AI Governance Working Group under the Group Risk & Compliance Committee (GRCC)
- Strict AI risk management protocols with internal AI planning, development, and ethical checklists





Indosat | AI Transformation

This is the reason behind our 'Indosat AI NorthStar.'
Our mission aligns with Indonesia's Golden Vision
2045, establishing the country as a lighthouse for
digital innovation.

Vikram Sinha

Chief Executive Officer, Indosat





AI Nation

Shaper

Key AI pillars	Objectives	Implementations
((w)) AI-Native Telco	Embed AI into core telco operations to drive hyper-personalization, optimize CAPEX, and boost CX	AI-driven network automation, resource allocation, and intelligent marketing
AI-TechCo Development	Establish new AI business lines focused on sovereign AI, AI security, and national cloud infrastructure	Deployed "GPU Merdeka" sovereign AI cloud via Lintasarta + NVIDIA; built AI factory and enterprise AI services
		Released Sahabat-AI LLM

Develop national AI capabilities

and sectoral AI transformation

through education, talent building,

Major investments

USD 200 mn AI center

Collaboration with NVIDIA to establish an AI Center of Excellence in Central Java for AI-cloud infrastructure and talent training

AI experience center

Opened at Solo Technopark (Aug 2024) with 5G-powered AI applications in smart cities, arts, and F&B

AIonOS Partnership

Developing AI for food security, tourism, and talent development

AI factory

(multilingual 70B) with chat

service; invested USD 200M

launched CoE & internships

AI center in Central Java;

for key sectors

USD 250 mn investment via Lintasarta, equipped with NVIDIA H100 GPUs, serving 20+ enterprise clients

Sahabat-AI (LLM Initiative)

Joint project with GoTo to build Indonesian-language AI models for localized AI solutions





Partnerships





NOCIA First mobile operator in Southeast Asia to deploy AI-**RAN**

Announced partnership with Nokia and NVIDIA to deploy AI-RAN infrastructure across Indonesia, integrating AI with 5G Cloud RAN to enhance performance, efficiency, and scalability

ERICSSON 🔰

Deployed world's first full-stack digital monetization platform

- Partnered with Ericsson, to deploy world's first full-stack Digital Monetization Platform (DMP), enabling real-time monetization, 5G readiness, and advanced B2B solutions
- Serves around 100m Indosat subscribers across Indonesia
- The collaboration also extends to AI-driven innovations, accelerating monetization and next-gen telecom capabilities

accenture Partnership with Accenture to accelerate sovereign AI cloud

Indosat Ooredoo Hutchison, through its unit Lintasarta, partnered with Accenture to accelerate Indonesia's sovereign AI Cloud, leveraging the Accenture AI Refinery platform

AI Deployments

Network Optimization

Digital Intelligence Operations Center (DIOC) for AI-driven performance improvements

Customer Experience

AI-driven hyper-personalization & customer retention strategies

AI Cloud Infrastructure

Sovereign AI Cloud Platform with Accenture ensuring data sovereignty

Governance & Compliance

- Developing sovereign AI Cloud in collaboration with Accenture for Indonesian enterprises
- Ethical AI development in line with Indonesian regulations





Telstra | AI Transformation

AI is the technology of our time, and it is not enough to simply be users of that technology.

Vicki Brady

Chief Executive Officer, Telstra





AI Infrastructure

Development

Key AI pillars	Objectives	Implementations
AI Innovation & Services	Accelerate enterprise-wide AI adoption through strategic partnerships and large-scale investments.	\$700M joint venture with Accenture to accelerate AI roadmap and enterprise tools.
Enterprise AI Integration	Embed AI tools into workflows to boost employee productivity and enhance customer service.	Integrated AI tools like 'Ask Telstra' and 'One Sentence Summary' into workflows to enhance staff productivity and customer service.
	Build high-capacity, reliable	Extended Intercity Fibre Network (~1,800 km) with

network fiber to support growing

AI data and compute demands

Microsoft as anchor tenant;

first routes live; aiming for

14,000 km by 2027

Major investments

\$700 Million Joint Venture with Accenture

Formed a 7-year partnership to accelerate Telstra's AI and data modernization roadmap.

Microsoft Partnership

Invested in 21,000 Microsoft 365 Copilot licenses, representing Australia's largest deployment of the generative AI service.

Quantium Joint Venture

Reduced AI vendors from 18 to 2 by establishing strategic partnerships with Accenture and Quantium to streamline AI initiatives.

Investment in AI Infrastructure

Investing in ultra-fast Intercity Fiber Network and subsea cable network enhancement to boost AI infrastructure capacity.





Partnerships



Formed Joint Venture with Accenture to accelerate AI roadmap

Formed a 7-year, \$700 million joint venture with Accenture to accelerate AI roadmap, develop agentic AI capabilities, and embed responsible AI practices.



Expanded Microsoft Partnership to enhance AI infrastructure and tools

Expanded strategic partnership with Microsoft to enhance AI infrastructure, including deploying 21,000 Microsoft 365 Copilot licenses—the largest in Australia.

CISCO

Collaborated with Cisco to design resilient AI network solutions

Collaborating with Cisco to design AI solutions improving network autonomy and resilience through advanced telemetry and edge computing.

AI Deployments

- Ask Telstra & One Sentence Summary
 In-house generative AI tools integrated into customer service operations to assist frontline teams with knowledge access and customer interaction summaries.
- AI-Powered Insights Platform (Insights Hut)
 AI-driven platform consolidating \$40 million in research assets, providing personalized access to insights for executives and strategy teams.
- AI-Powered Autonomous Network Vision
 Developing a highly autonomous network by 2030 using AI, machine learning, and digital twins to enable self-healing network capabilities.

Governance & Compliance

- Operates a Responsible AI Policy aligned with Australia's AI Ethics Principles, embedding accountability, fairness, and transparency in AI systems.
- Established the Risk Council on AI & Data (RCAID) and Executive Data & AI Council for governance and lifecycle oversight of AI systems.





LG Uplus | AI Transformation

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No matter how innovative AI technology is introduced, we cannot create true customer impressions if quality is not supported.

Hwang Hyeon-sik

Chief Executive Officer, LG Uplus





Key AI pillars	Objectives	Implementations
AI Agent Ecosystem	Build a scalable AI agent ecosystem across customer interactions	Launched ixi-O, integrating Google Gemini AI, deployed AI across 8+ platforms
Enterprise AI Integration	Expand B2B AI solutions to drive ₩2 trillion revenue by 2028	Developed sLLM (ixi-GEN), deployed AI in smart factories, scaled Agent Assist
AI Cloud & Infrastructure Development	Establish sovereign AI cloud and AI-ready infrastructure	Built hyperscale data center; partnered with AWS; developed AI chips with DeepX

Major investments

₩3 Trillion AI Investment Plan

Announced investment of ₩3 trillion (~\$2.1 billion) in AI by 2028 to transform into an AI-centric company.

AWS Partnership for AI Cloud

Partnered with AWS to develop Korean sovereign AI cloud and co-optimize LG's ixi-GEN with AWS's Nova.

Google Partnership for AI Agent

Partnered with Google to integrate Gemini AI into ixi-O for personalized AI call agent services.

Hyperscale AI Data Center Construction

Building 100,000+ server hyperscale AI data center in Paju, Gyeonggi Province, for AI workload processing.





Partnerships



Partnered with Google to integrate Gemini AI into ixi-O platform

Integrating Google Gemini AI into ixi-O for advanced call summarization, expanding to multimodal AI capabilities.



Collaborated with AWS to develop sovereign AI cloud and models

Collaborating with AWS to develop sovereign AI cloud and optimize ixi-GEN and AWS Nova language models.



Co-developed AI-powered smartphone assistant

Co-developing AI-powered smartphone assistant combining ixi-O and Samsung Galaxy AI.



Partnered with DEEPX to develop AI chips

Partnering with DEEPX for AI chip development to power ondevice AI in robotics, mobility, and telecom.

AI Deployments

ixi-O AI Agent

On-device AI call agent with voice phishing detection, transcription, and customer interaction summaries deployed across customer services.

AI Contact Center Expansion

Scaling 'Agent Assist' from 200 to 2,300 agents, achieving 30% operational efficiency improvement.

Smart Factory AI Solutions

Deploying AI for digital twins, predictive maintenance, and big data analytics to enhance manufacturing operations.

Governance & Compliance

- Standardized EIA procedure to assess risks across AI lifecycle.
- Aligning AI systems with PIPA (Korea), GDPR, and preparing for EU AI Act.





KT Corporation | AI Transformation

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True AI innovation demands global collaboration—while preserving sovereignty over data and infrastructure.

Kim Young-shub

Chief Executive Officer, KT Corporation





AI Infrastructure

Development

Key AI pillars	Objectives	Implementations
AI Innovation & Services	Transform into an AICT leader by embedding AI across telecom, enterprise, and media operations.	Invest ₩7T (~\$5.4B) by 2027 in AI tech, infra, & services; deploy Mi:dm LLM, AI agents, voice AI.
	Enhance AI-driven customer & enterprise solutions to deliver scalable & localized Korean AI	Built AI Studio Lab for media AI; AI Meister/Operator for
Enterprise AI Integration	offerings.	networks; AI contact cente deployment.
	Build an AI-ready infrastructure ecosystem for AI innovation, sovereignty, & autonomous	AI Data Center Demo Cente (2025), Databricks Data Platform, AMD/NVIDIA AI

hardware deployment

data centers

Major investments

₩7 Trillion AI Investment Plan

Investing ~\$5.4B by 2027 across AI infrastructure, AI services, core technologies.

Microsoft Strategic Partnership

Five-year, multibillion-dollar partnership for AI innovation, AI solutions tailored to Korean language & culture.

Investment in AI Chipmaker Rebellions

Led \$124M Series B round to develop Korean AI chips for cloud & telecom

AI Data Center Demonstration Center

Launching 2025; first step toward autonomous, sustainable AI data centers.





Partnerships



Strategic Collaboration with Microsoft to Build AI Cloud and GPT Model

Multibillion-dollar collaboration: custom GPT-40 Korean model, sovereign public cloud, AI transformation services, upskilling 19,000+ employees.

Q Palantir

Integrated Palantir AI Solutions for Enterprises and Joint Market Ventures

Integrated Palantir's AI solutions for enterprise clients; codeveloping AIP Bootcamp; joint ventures in domestic & U.S. markets.



Partnered with Databricks to Scale AI Platform and Advance Innovation

Scalable AI & data platform; supports AI innovation in regulated industries; AI Center of Excellence for advanced training.

AI Deployments

AI Agent Solutions

Mi:dm-based AI agent solutions deployed for customer service, combining natural language processing, real-time transcription, and AI voice phishing detection for improved security.

AI-Integrated Media Production

AI Studio Lab integrating AI throughout the content lifecycle—from investment review to production and distribution—enhancing media efficiency, accuracy, and quality.

Governance & Compliance

- Oversees ethical AI practices, ensuring fairness, transparency, and safety across deployments(RAIC)
- Embeds AI ethics education into employee programs with grievance channels for reporting ethical concerns.





Rakuten Mobile **AI Transformation**

We're not competing with OpenAI—we're building vertically integrated, specialized AI powered by Rakuten Mobile's data.

Hiroshi Mikitani

Chief Executive Officer, Rakuten Group

Rakuten Mobile

Cloud-Native AI

Infrastructure

Key AI pillars	Objectives	Implementations
Generative AI Enablement	Democratize AI usage across 100% of business functions through Rakuten AI for Business platform.	Launched Rakuten AI for Business with customizable prompts, RAG features, and utilization dashboard, now used by 30,000+ employees.
(3)	Build proprietary Japanese- language AI models to enhance customer experience and	Developed Rakuten AI 2.0 and Rakuten AI 2.0 Mini models, optimized for Japanese
AI-Nization of Business Operations	operational efficiency across the Rakuten Group of services.	language, deployed across internal and external use cases.

Enable AI-driven telecom and

enterprise services through

scalable, cloud-native

infrastructure

Deployed a cloud-native, AI-

Intel and Cisco partnerships

powered mobile network with

Major investments

\$10 Million AI & 6G R&D Investment (India)

Invested in Bengaluru R&D center to enhance AI capabilities and 6G research, driving AI-nization and innovation in telecom services.

Investment in Proprietary AI Models

Launched Rakuten AI 2.0 and Rakuten AI 2.0 Mini in Dec 2024 to deliver localized AI solutions for Japanese language tasks.

Launch of Rakuten AI for Business

Introduced in Jan 2025 as a GenAI platform supporting document creation, translation, research, and brainstorming.

Partnership with OpenAI

Collaborating to co-develop telecom-specific AI solutions targeting customer service, predictive maintenance, and network optimization.



Rakuten Mobile

Partnerships



Partnered with OpenAI to Co-Develop Telecom-Focused AI Solutions

Joint development of telecom-focused AI solutions for customer experience, network optimization, and predictive maintenance..



Collaborated with Universities to Advance Open RAN and AI Research

Partnered with National Institute of Informatics, Tokyo Institute of Technology, and Technical University of Munich to advance AI + Open RAN research and AI-driven network digital twins.



Formed Strategic Collaborations to Embed AI Apps into Open RAN

Collaborated with zTouch Networks to embed AI rApps and xApps into Open RAN; partnered with Science Arts to integrate Buddycom communication with Rakuten's AI ecosystem.

AI Deployments

Rakuten AI for Business

A browser-based GenAI platform enabling employees to perform document creation, translation, brainstorming, and analysis; features job-specific prompts and RAG function integrated with internal data.

AI in Network & Field Operations

AI applied to Open RAN management, real-time optimization, and detecting network anomalies like "sleeper cells"; used in technician verification via photo analysis.

Governance & Compliance

- Oversees AI ethics through an AI Code of Ethics (established July 2024), promoting fairness, transparency, compliance, and safety across AI initiatives.
- Governance structures report AI activities to the AI & Data Committee, escalating insights to the Board of Directors for transparency and accountability.





KDDI | AI Transformation

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We're advancing Life Transformation by combining AI with next-gen connectivity to empower every individual.

Makoto Takahashi

Chief Executive Officer, KDDI Corporation



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Objectives

Implementations



Promoting Data-Driven Practices & Generative AI Empower enterprise and non-tech users with generative AI for productivity and innovation Launched internal LLM apps (e.g., legal summaries, meeting notes), "au Support AI Advisor" for CX, and partnered with dotData & AI Dynamics for enterprise AI.



AI Infrastructure **Development**

Build Asia's largest, sustainable AI data center to power generative AI workloads Acquired Sharp Sakai Plant for Osaka AI Data Center (1,000-GPU GB200 NVL72); built liquid-cooling, renewable energy setup.



AI Governance

Ensure ethical, transparent, and risk-managed AI deployment across business lines Published AI R&D & Utilization Principles; established oversight via HAIP Transparency reporting aligned with OECD & NIST

Major investments

Investment in Sakana AI

Invested in Tokyo-based startup to support the development of generative AI foundation models, providing access to data and computing resources

Partnership with Groq, Inc

Invested in US -based Groq, Inc., advancing generative AI applications to promote high-speed AI inference technology in Japan

Google cloud partnership

Integrated Gemini AI into KDDI's metaverse and Web3 platform (αU) for AI-driven shopping and entertainment

Elyza acquisition

Acquired majority stake in Japanese AI startup to strengthen domestic AI model development

AWS partnership

To assist businesses and municipalities in adopting generative AI for digital transformation





Partnerships



Partnered with Google Cloud to integrate Gemini AI into KDDI's metaverse

Google Cloud

Leveraging Google Cloud's Gemini AI to enhance user experiences in its metaverse and Web3 platform, αU.



Collaborated with AWS to support businesses and municipalities in adopting generative AI

KDDI and AWS are working together to drive digital transformation across industries by providing generative AI solutions for enterprises and local governments.



SHARP Partnered with Sharp to develop one of Asia's largest AI data centers in Osaka

KDDI and Sharp are jointly building a large-scale AI data center in Osaka to support the growing demand for AI computing power.

AI Deployments

AI Data Center Development

Osaka-based AI data center, featuring NVIDIA GB200 NVL72 computing platforms.

WAKONX Business Platform

Network Layer: Optimized 5G and IoT networks. Data Layer: Secure AI-driven data management. Vertical Layer: AI solutions tailored for industries.

Governance & Compliance

- Formulated a business ethics committee that oversees AI governance and compliance.
- Developed an internal business ethics helpline for AI ethics and compliance reporting.





Singtel | AI Transformation

AI-driven innovation will be front and centre as we bring its transformative powers to our retail and enterprise customers

Yuen Kuan Moon

Group Chief Executive Officer, Singtel





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Objectives

Implementations



Democratize AI by providing GPU-as-a-Service, AI cloud, and end-to-end orchestration for enterprises and public sectors

Launched RE:AI (AI cloud + orchestration via Paragon), GPUaaS via Nxera & NVIDIA, and partnerships with ScaleAI and Bridge Alliance



Enhancing Customer Experience Elevate support and engagement through AIdriven tools in customer operations. AI-enabled chatbots, callcentre summarization, legal migration to generative assistants; integrated into 5G edge for live analytics via Nvidia



Enterprise AI & Developer Enablement

Empower enterprises and developers to deploy and scale AI with training, R&D ecosystems, and HPC for innovation Set up AI Accelerator & training with NUS/NTU/AI Singapore; hosted research via NSCC (RE:AI R&D platform); expanded Nxera DC with sustainable GPU-ready capacity (58MW DC-Tuas)

Major investments

Investment in ST Telemedia Global Data Centre

In collaboration with Kohlberg Kravis Roberts & Co, a global investment firm, invested SGD 1.75 bn into STT GDC to enhance AI data center infrastructure

Earmarked investment for fiscal year 2025

The company has earmarked SGD 1 bn for data centers and AI-related equipment, reflecting a notable increase from the SGD 2.2 bn total capex in fiscal 2024

Developing AI training programs

Partnered with AI Singapore, Nanyang Technological University, National University of Singapore to develop AI training programs for workforce upskilling





Partnerships

scale

Partnered with Scale AI to enhance the accuracy of generative AI solutions

RE:AI partnered with Scale AI to accelerate AI adoption across industries by improving model training, data labeling, and enterprise AI applications.

H₂O.ai

Formed a partnership with H2O.ai to deliver Generative AI-as-a-Service

RE:AI partnered with H2O.ai to enable businesses to deploy AI models at scale, improving automation, insights, and decision-making processes.



Formed a strategic partnership with Nscale to unlock global GPU capacity

Collaborated with Nscale to provide enterprises with high-performance and cost-effective AI computing resources.

AI Deployments

RE:AI – Singtel's AI Cloud Platform

Provides AI compute infrastructure, AI workspaces, and orchestration tools.

Integrated with Singtel's Paragon platform for seamless AI deployment.

 SingVerify – AI for Identity Verification & Fraud Prevention

Uses AI to match customer phone numbers with registered data to prevent account takeovers & unauthorized transactions.

Governance & Compliance

- Collaborating with GSMA and global telcos to develop the Responsible AI Maturity Roadmap.
- Adheres to Personal Data Protection Act (PDPA) in Singapore & other global privacy laws.





NTT Docomo | AI Transformation

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Developing 6G is our chance to shape AI-native networks that drive sustainability, efficiency, and next-generation customer experiences

Takaaki Sato

Chief Technology Officer, NTT Docomo

döcomo

Key AI pillars

Objectives

Implementations

Launched internal use for LLM value-added platform with RAG & ethics filters; hosted org-wide promptathons, no-code app workshops; ~10K MAUs and 3 M monthly LLM calls

Deployed Alli-powered apps:



AI Integration Across Business Operations (BizOps)

Embed generative AI into customer support, legal, and operational workflows

Deployed Alli-powered apps: legal summary, meeting minutes, call-centre Q&A; integrated Databricks platform to analyze usage and boost productivity 10×



AI-Optimized Network & Open RAN Build flexible, cost-effective AInative mobile networks via O-RAN. Commercialized Open RAN since 2020 (>27 M subs); launched OREX ecosystem and joint venture (OREX SAI); using AWS-EKS for 5G Open RAN; Nokia, NEC, Nvidia-powered vRAN stacks

Major investments

\$3.3 Billion AI Infrastructure Investment (with Toyota)

Investing to develop an AI platform for autonomous driving, improving driver-assist technologies and traffic safety.

Launch of "tsuzumi" Large Language Model

Developed compact, energy-efficient proprietary LLM to support AI applications across NTT Group companies.

Establishment of NTT AI-CIX Inc.

Formed in 2024 to transition from individual AI projects to interconnected AI services across industries.

6G AI-Native Air Interface Collaboration

Partnered with SK Telecom, Nokia, and NTT to codevelop AI-native 6G air interface for optimized wireless communication.





Partnerships



Partnered with Samsung for Joint Research on AI Applications

Joint research on AI applications for next-generation mobile communications, improving quality and efficiency.



Established Open RAN Ecosystem with Red Hat for 5G Solutions

Established an ecosystem including Red Hat to promote open, interoperable 5G RAN solutions and best-of-breed deployments.



Collaborated with SK, Nokia, NTT to Co-Develop AI-Based 6G Interface





Partnered with SK Telecom, Nokia, and NTT to co-develop AI-based 6G air interface; conducting real-world validation tests.

AI Deployments

- AI-Driven Customer Recommendations
 Deployed AI technology at customer touchpoints to personalize interactions, improving satisfaction and subscription rates.
- Retail AI Automation Solutions
 Combined AI and surveillance cameras for automated customer service and marketing in retail settings to address labor shortages.

Governance & Compliance

- Follows comprehensive AI Risk Management Policy, categorizing risks (prohibited, high, limited) and enforcing dual-phase assessments.
- Implements AI Governance Structures via Co-CAIOs and AI Governance Office overseeing risk management across NTT Group.

Measuring AI Maturity of Telcos

Key findings from our research

APAC: AI Telcos Leaders vs Challengers

Leaders Group













































AI Maturity Breakdown: How Leaders Outperform the Rest

Component	Leaders Avg. Score	Challengers Avg. Score	Reasoning
Strategic Alignment	4.92 / 5	2.38 / 5	Stronger C-level sponsorship, defined AI roadmaps, and consistent KPI/ROI tracking
People & Processes	4.94 / 5	2.93 / 5	Robust AI talent strategy, enterprise-wide literacy programs, and formal testing & scaling processes
Technology & Applications	4.81 / 5	3.03 / 5	Mature GenAI tech stacks, cloud-native infra, and seamless integration into core systems
Data Management	3.90 / 5	2.69 / 5	Centralized data pipelines, improved accessibility, and stronger data governance
AI Governance, Risk & Ethics	4.09 / 5	2.34 / 5	Formal AI ethics policies, lifecycle governance, and regulatory alignment
Innovation & Experimentation	4.86 / 5	3.03 / 5	More investment in AI R&D, strong PoC pipelines, and better ecosystem collaboration



Emerging AI Initiatives Across APAC's Challenger Telcos (1/2)



Network & Customer Intelligence

- Uses Jio Brain, an inhouse AIOps platform, for AI-driven network fault prediction, selfhealing, and real-time optimization
- Leverages Jio Haptik
 to power intelligent
 customer engagement
 across channels using
 conversational AI and
 virtual assistants.



Customer Engagement

- Uses Wynk Studio's AI engine to deliver hyper-personalized audio experiences across its music platform
- Partners with Airtel IQ and conversational AI solutions to automate customer interactions and drive self-service



Customer Support

- Launched GoChat
 Super App powered by
 AI for messaging,
 payments, and
 personalized offers
- Enables hyperpersonalized
 engagement through
 intelligent automation
 and recommendations



Network Optimization

- Operates Mindu Brain, its proprietary AI platform, to enable real-time network selfoptimization and intelligent fault management
- Leverages AI-powered orchestration across 5G infrastructure to automate maintenance and improve service reliability



AI-Powered CX & Network Intelligence

- Deployed Mari-AI, a voice + chat virtual assistant via True Voice, handling 22M+ interactions with 92% success in 2024
- Launched BNIC, an AIdriven center for realtime network monitoring, fault detection, and anomaly resolution.



Emerging AI Initiatives Across APAC's Challenger Telcos (2/2)



Customer Support

- Deployed TM One Contact Centre AI, enabling sentiment analysis and intelligent routing for customer support.
- Uses LLM-powered chatbots to handle Tier-1 queries, improving resolution time and reducing agent load



AI-Enhanced Customer Service

- Launched Globe
 Digital Assistant
 (GDA) to automate
 customer service
 across channels with
 natural language
 understanding.
- Uses AI-powered analytics to monitor and enhance customer experience in real time



AI Platform & Infrastructure

- Built a GenAI-ready infrastructure stack, integrating cloudnative platforms for scalable AI deployment.
- Established structured
 AI testing and scaling
 frameworks to move
 pilots into production
 faster.



Intelligent Infrastructure & Operations

- Operates "AI Factory" architecture to centralize AI training, modeling, and service deployment across verticals.
- Embedded AI powered automation
 into network
 operations for real-time
 fault detection and
 predictive
 maintenance.



Customer Support

- Established a centralized AI Factory model to drive intelligent service innovation across provinces and industries
- Deployed AI-enabled customer support and infrastructure ops as part of its enterprise service platform

Takeaways That Redefine AI Maturity in APAC Telcos



Strategically curated foundations give leaders an advantage



Strategy starts in the boardroom

e& UAE, SK Telecom, and China
Telecom have made AI a boardlevel priority — with C-suite
ownership, aligned KPIs, and clear
execution paths. They treat AI as
strategy, not experimentation.



CoEs are scaling engines, not experimental playgrounds

Leaders like Airtel and Indosat have
evolved AI Centers of Excellence into
cross-functional execution hubs —
upskilling frontline teams, not just
engineers. AI champions are now
embedded in business units, not just IT.



Owning infrastructure is a strategic edge

SoftBank, SKT, and Telstra are not just consuming AI — they're building their own infrastructure stack. From hyperscale compute to ML platforms, they've realized: owning AI infra is owning future value.

Effective leaders scale AI end-to-end



Unified data beats isolated dashboards

Even high scorers struggle with fragmented systems. But telcos like Rakuten Mobile and Telkomsel are pushing toward governed, real-time, API-accessible pipelines — not just dashboards.



Build Responsible AI into delivery of outcomes

Governance isn't about lofty
principles — it's about explainability,
risk controls, and compliance. True
Corporation and e& UAE are already
embedding responsible AI
frameworks into delivery pipelines.



Innovation only matters if it scales

Top telcos like Jio, Globe, and SK
Telecom don't stop at GenAI pilots
— they industrialize. These leaders
co-build with startups, track PoCto-scale conversions, and focus on
real impact metrics.

Growing influence of AI in telecom boardrooms spark strategic realignment and industry-wide disruption

How will telcos evolve in the AI era?



AI CoEs Will Evolve into Enterprisewide AI Fabric

Telcos will expand AI Centers of Excellence into full-stack delivery hubs that support organization-wide enablement, standardization, and integration — becoming the core of AI operating models.



Real-Time Data Infrastructure Will Become the Norm

To support GenAI, telcos will accelerate investment in unified, real-time, and governed data platforms — moving away from batch systems to meet latency, scale, and security demands.



PoC-to-Production Metrics Will Shape AI Strategy

Success will no longer be defined by experimentation, but by execution. Telcos will track PoC conversion, industrialize AI delivery, and build internal frameworks to move AI from labs to production sprints.



Proprietary AI Hardware Expansion

Telcos in mature markets looking to diversify will increasingly explore inhouse chip development and AI compute infrastructure to secure control over AI workloads and performance.



AI-Driven Customer Experience Innovation

AI-powered contact centers, autonomous stores, and AI assistants will accelerate customer engagement transformation across physical and digital channels.

Scaling AI Governance and Compliance

Following the lead of frontrunners, emerging telcos will formalize AI ethics frameworks, fairness audits, and certification processes to meet rising regulatory and consumer trust demands.



Research Methodology

To evaluate the AI maturity of leading telecom operators across the Asia-Pacific region, Twimbit conducted an extensive secondary research study involving public disclosures, company reports, investor presentations, press releases, and news sources across 15 countries in APAC.

The research process involved systematically mapping telcos' AI initiatives, investments, partnerships, deployments, and governance practices across a proprietary AI Maturity Framework of 6 main components and 30 sub-components.

Each telco was evaluated and benchmarked based on publicly available data, supplemented by expert interviews and analyst insights where applicable.

The final report synthesizes these findings to provide a strategic overview of the AI maturity landscape in the APAC telecom industry.

	Nations	No. of Telcos
	Indonesia	3
** **	Australia	2
	UAE	1
	Korea	3
®	India	4
*	Taiwan	2
	Philippines	2
	Japan	4
(:	Singapore	2
(*	Malaysia	3
*3	China	3



Top 10 APAC Telcos AI Maturity Scores

This table presents the AI maturity scores for 10 top APAC telcos, assessed across six core dimensions in our proprietary AI Maturity Framework. Scores reflect maturity levels ranging from **1** (Foundational) to **5** (Transformational)

Telco	Strategic Alignment	People & Process	Technology & Applications	Data Management	AI Governance, Risk & Ethics	Innovation & Experimentation	Total
SK Telecom	24	24	24	12	24	24	132
SoftBank	23	20	19	15	21	23	121
Indosat	22	25	25	21	8	17	118
Telstra	16	15	11	18	18	16	94
LG Uplus	11	15	15	13	17	18	89
KT	9	23	14	11	14	14	85
Raukten	8	24	16	11	14	12	85
KDDI	14	13	15	8	14	20	84
Singtel	11	19	14	9	17	14	84
NTT Docomo	9	13	13	9	13	22	79



Scoring Methodology

☑ Scoring Scale (1 to 5, but redefined for practicality)

Score	Meaning
1	No information available or no evidence of activity (default baseline) (NA)
2	Very limited activity: maybe early signs, mentions, or pilots with no depth or clarity
3	Clear evidence of structured efforts; some implementation visible but not widespread or mature
4	Strong activity; implemented across several areas or units with measurable outcomes
5	Mature, enterprise-wide capability; well-documented, scaled, and optimized with best practices



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reachus@twimbit.com www.twimbit.com