



Digital InfraCo Capabilities & Technology Stack

Orchestration

GPUaas

Platform

Connectivity

Paragon

Al Cloud

Nxera DC

Network Fabric

Digital InfraCo Vision

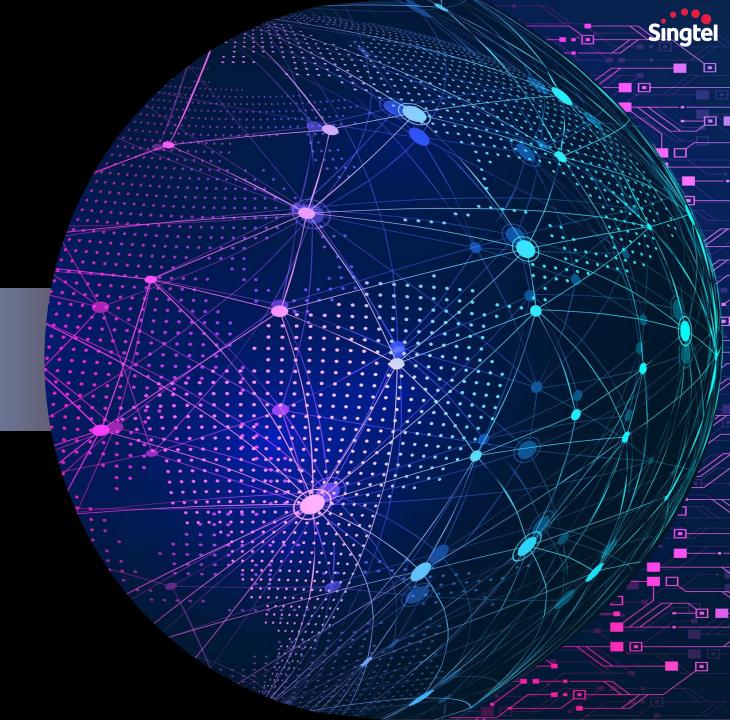
Enable and empower Telcos, Enterprises and DC operators to thrive in the 5G edge and Al cloud era

Regional Al-as-a-Service provider with the best connectivity service offerings

Sustainable, Hyper-connected, Al Ready DC provider in Asia

Leading connectivity operator in Asia Pacific to enable digitalisation

Nxera





ready DC platform in the region





KC2, DC West and DC Tuas

Total: 120 MW

JV with Gulf (40%), Singtel (35%), AIS (25%)

Up to: 50MW

JV with PT Telkom (60%), Singtel (35%), Medco (5%)

Total: 50MW



JV with TM (51%), Singtel (49%)

Up to: 200MW

In progress to build Green DC Platform > 400MW



Q2'2025

Q4'2025

Q1′2026

Q4'2026

Beyond 2026

Thailand DC







Batam DC







SG Tuas DC







Malaysia DC



Target to operationalize > 200MW by end 2026 (out of total >400MW inventory)

- All our greenfield DCs will be Al-ready, equipped with best-in-class standards and liquid cooling capabilities
- Interconnected via subsea cables and will operate under a single operating system
- **Energy transition plans** with strategic energy partners

Note: Based on calendar year

Differentiator: Key Attributes of Nxera Platform



Industry leading power density design

- High efficiency
 Direct to Chip liquid cooling capabilities
- Rack density of up to 150KW/rack
- PUE < 1.3
- Leading WUE performance

Excellence in Development & Operations

- Next-Gen, scalable and secure infrastructure
- Smart Operating Platform (SmartOSS) Digital Twin with AI/ML Ops

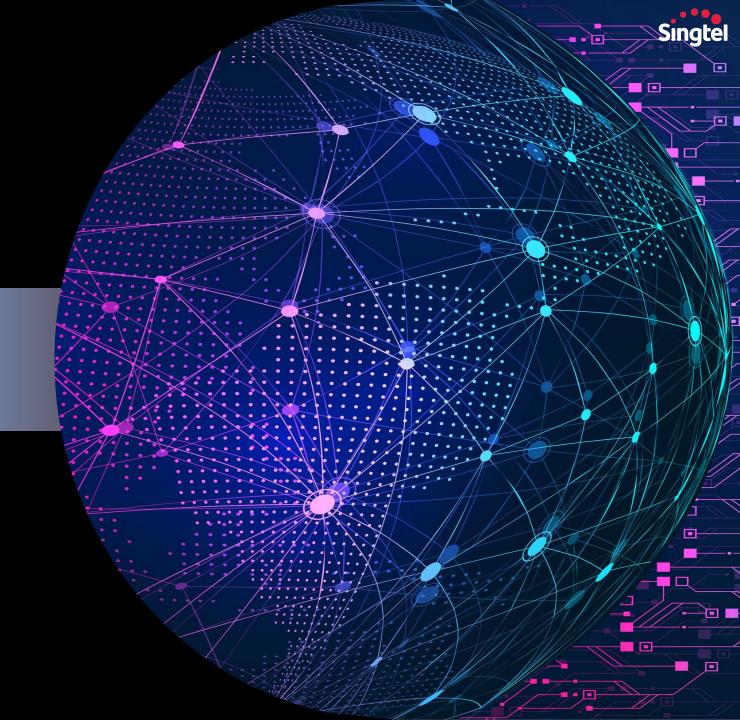
Hyper connectivity

- Subsea cable landing station at DC Tuas
- Carrier Neutrality
- Growing Data Centre Interconnect

Sustainability

- Net Zero Operational Emissions by 2028
- Access to Renewable Energy sources through strategic partnership and JV partners
- Self-serve customer decarbonisation platform

GPUaaS

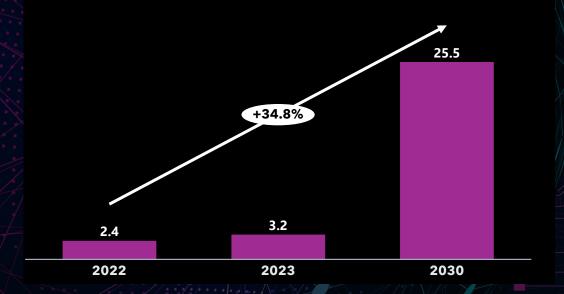


GPUaaS Industrial Overview



GPUaaS industry is expected to benefit significantly from the rapid adoption of artificial intelligence uses cases

GPUaaS is forecasted to surge at a CAGR of **34.8%** to US\$25.5B from by 2030



Singapore Landscape

Al innovation remains a key focus for the Singapore government:

Singapore National Al Strategy 2.0 (NAIS 2.0)



\$\$1B commitment to AI development in Singapore over the next 5 years







NATIONAL ARTIFICIAL INTELLIGENCE STRATEGY 2.0 TO UPLIFT SINGAPORE'S SOCIAL AND ECONOMIC POTENTIAL

Singapore, 4 December 2023 – Singapore's second National Al Strategy (NAIS 2.0) was officially launched today by Deputy Prime Minister (DPM) and Minister for Finance Lawrence Wong to address the challenges of our time, and uplift Singapore's collective economic and social potential over the next three to five years. The strategy

THE STRAITS TIMES FEB 21, 2024, 11:42 AM -

In his Budget speech on Feb 16, Deputy Prime Minister and Finance Minister Lawrence Wong said the Government will invest more than \$1 billion over the next five years into AI compute, talent and industry development.

GPUaaS: Singtel's Partnership with Nvidia



Singtel announces new business line GPU-as-a-Service with Nvidia's GPUs, available in Southeast Asia in 3Q



Nicole Lim

ie, Mar 19, 2024 • 10:51 AM GMT+08 • • 2 min read









The telco will be among the world's first to deploy Nvidia's GB200 Grace Blackwell superchips, dubbed 'world's most powerful chip' for Al. Photo: Bloomberg

Among the first in the world to deploy the most powerful next-generation NVIDIA GPUs

Singapore, 19 March 2024 – Singtel today announced it will be launching its GPU-as-a-Service (GPUaaS) in Singapore and Southeast Asia in the third quarter of this year, providing enterprises with access to NVIDIA's AI computing power to drive greater efficiencies to accelerate growth and innovation.

At launch, Singtel's GPUaaS will be powered by NVIDIA H100 Tensor Core GPU-powered clusters that are operated in existing upgraded data centres in Singapore. In addition to NVIDIA H100 GPUs, Singtel will be among the world's first to deploy NVIDIA's next-generation GB200 Grace Blackwell Superchips, which deliver 30X faster real-time large language model inference than its predecessor. Singtel will be one of the first NVIDIA Partner Network Cloud Partners to receive them early next year. This will give enterprise customers options of different types of accelerators for their advanced computing and Al needs. The GPUaaS will then be expanded to run in three new sustainable, hyper-connected, high-density Al data centres by Singtel's regional data centre business Nxera in Singapore, Thailand and Indonesia when they begin operations. Singtel will be deploying more than 100MW of these next-generation sustainable Al-ready data centres through Nxera within the next three years.

"Our GPUaaS will run in AI-ready data centres specifically tailored for intense compute environments with purpose-built liquid-cooling technologies for maximum efficiency and lowest PUE, giving them the flexibility to deploy AI without having to invest and manage expensive data centre infrastructure."

Bill Chang, CEO of Nxera and Singtel's Digital InfraCo

Singtel is the preferred partner to NVIDIA as an NCP with early access to the upcoming NVIDIA roadmap.



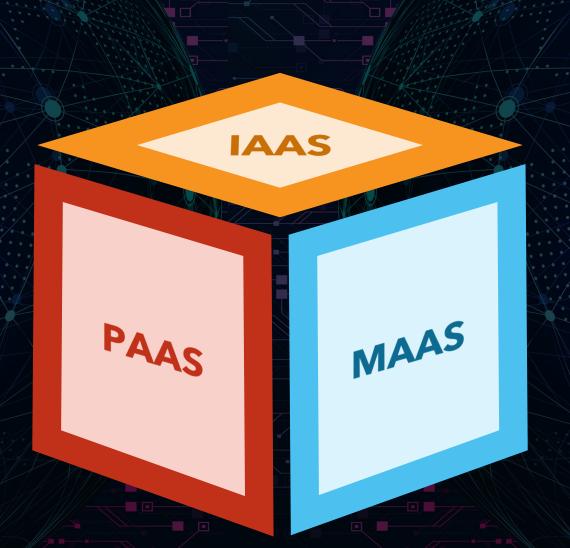
Key Features of Singtel Al Cloud to address Enterprise challenges on Al adoption

VGPU AND VM AS A SERVICE

VM's with CPU, Memory and entire physical GPU cards or vGPU cards optimized for inferencing workloads

AI WORKSPACE AS A SERVICE

- Tensorflow as a service on VM cluster or Multi-server cluster.
- VisualStudio as a service on VM cluster or Multi-server cluster
- PyTorch/Jupyter as a service on VM cluster or Multi-server cluster for Al model training coding.
- Kubernetes as a service on VM cluster or multi-server cluster for Al inferencing and training.



AI CLUSTERS AS A SERVICE

Multi-server cluster with each server having 8*H100 GPU cards. Available with Linux and Windows OS as per customer needs.

MODELS AS A SERVICE

Pre-trained Al models like LAMA2, MISTRAL available as a service as base models for customers to build incremental training on the base model and build Al apps rapidly

GPUaaS: Our competitive advantages to differentiate and win





Position as key **National Sovereign Al Cloud** provider for Govt and local large enterprises



Enhance latency and throughput to GPU cloud with orchestration of fixed, mobile and satellite networks to the edge



Expand Sovereign cloud proposition with strategic partners in the SEA region



SLA assurance for GPU performance to support mission critical Al use cases.



Leverage on Nxera's DC capabilities in building, managing and operating sustainable, hyper-connected AI ready DCs (with liquid cooling capabilities at scale)



Establishing **key partnerships** with leading U.S. and European GPUaaS providers to form **global alliance** to drive in bound AI workloads

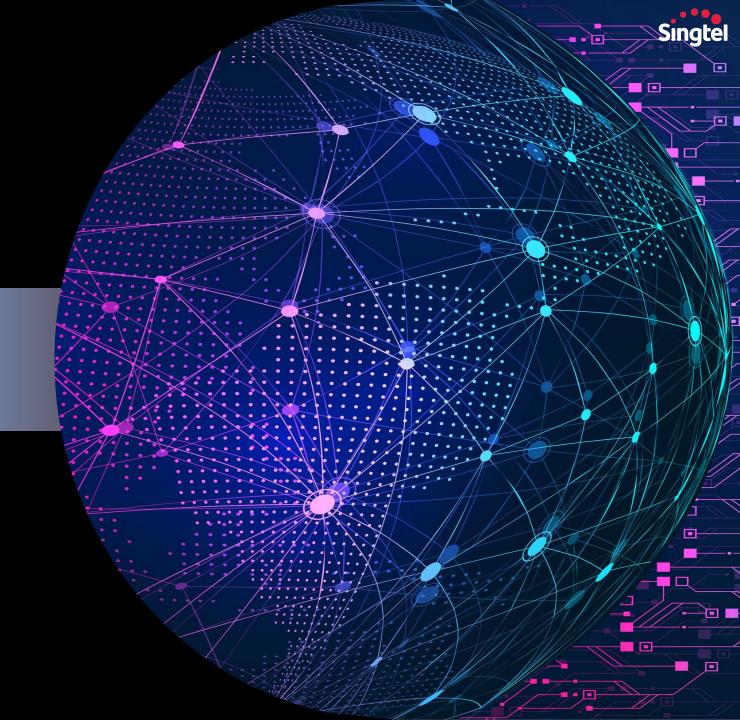


Paragon orchestration platform for ease of use by customers with different Al workloads.



Attract and develop AI ecosystem.

Enterprise Platform



Differentiating our telco Offerings Beyond Connectivity with Edge Cloud, Applications & Services

Paragon - Industry's 1st Multi-Network, Multi-Infra and Multi-Cloud Aggregation & Orchestration platform





APP Marketplace



















Digital Interface with APIs







Application Services



Multi-cloud Broker

MEC Manager

NaaS

Multi Public Cloud





Edge/Private/GPU Cloud





laaS **GPUaaS**

Fixed Mobile





Singtel



Paragon diverse beyond 5G and Edge, laying the foundations of growth in adjacent markets and unlocking value from existing markets



Telcos



Manage connectivity, assurance, network slicing, MEC and onpremise Edge computing



Enterprises



Implement and manage private 5G and cloud



Data Centers



Monetize data center assets via destination-based routing, fine grain metering of transit traffic

Paragon-X global adoption



TELCOS WITH PARAGON-T DEPLOYMENTS















ENTERPRISE WITH PARAGON-E DEPLOYMENT



GPUaaS Orchestration WITH PARAGON-D DEPLOYMENT









