

# BOUNDLESS POSSIBILITIES @EDGE

Transform your business with  
Tata Communications Vayu Edge

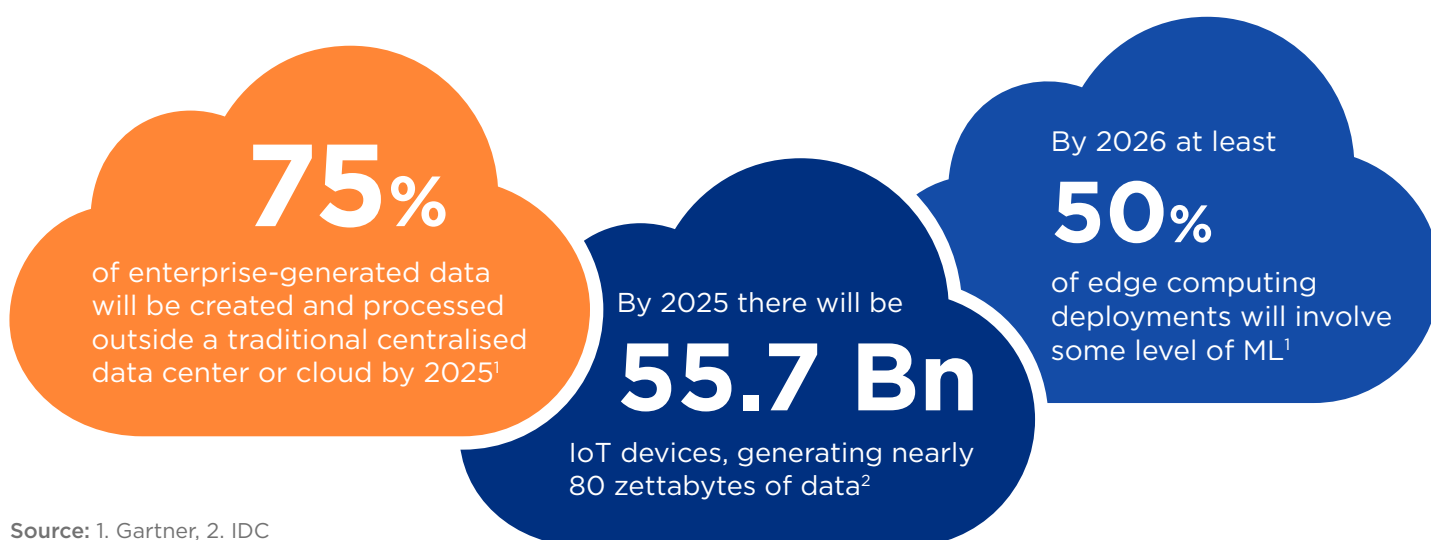
In the fast-evolving hyperconnected business landscape as the demand for real-time data processing, low-latency applications and intelligent decision-making evolve across industries, businesses are embracing the potential of edge computing to unlock new possibilities and drive innovation to optimise their overall business value.



Businesses today are more connected than ever before, fuelling the explosion of data at the edge. The line between the physical and digital worlds is fading. Edge computing stands at the forefront of this transformation, by processing and analysing data at its point of origin rather than relying solely on centralised cloud servers. It has not only revolutionised business operations but has also redefined the boundaries of efficiency, speed and agility, allowing organisations to adapt, innovate, and collaborate.

The rapid advancement of technology, coupled with the widespread adoption of 5G, IoT and cutting-edge innovations, is driving a transformative shift.

From the predictive maintenance of critical infrastructure to intelligent supply chain management, from AI-powered retail analytics to improving driver experiences and safety, the possibilities at the edge are limitless.



Source: 1. Gartner, 2. IDC

## Organisations are using Edge



**To enable use cases** that are challenging to implement due to data latency



**To optimise costs** by processing data at the edge and reducing the reliance on expensive backhaul



**To ensure compliance** with local data residency laws necessary to experience the benefits of both cloud & edge



**To have more granular control** over individual and enterprise data by limiting reliance on public cloud



**To execute AI inferencing locally.** Eliminates cloud communication delays and enables decision making in milliseconds







**To improve resiliency & availability** by distributing workload on high available edge infrastructure to eliminate single point of failure

As the volume and complexity of managing legacy systems alongside modern, containerised workloads grow, the need for an orchestration platform that's open, agile and truly adaptable becomes evident.

Such a platform serves as the backbone, bridging the gap between infrastructure and the centralised cloud services. That's where Tata Communications Vayu Edge steps in, powered by open-source kubernetes and designed to provide top-tier support for virtualised, containerised and serverless function-based applications.

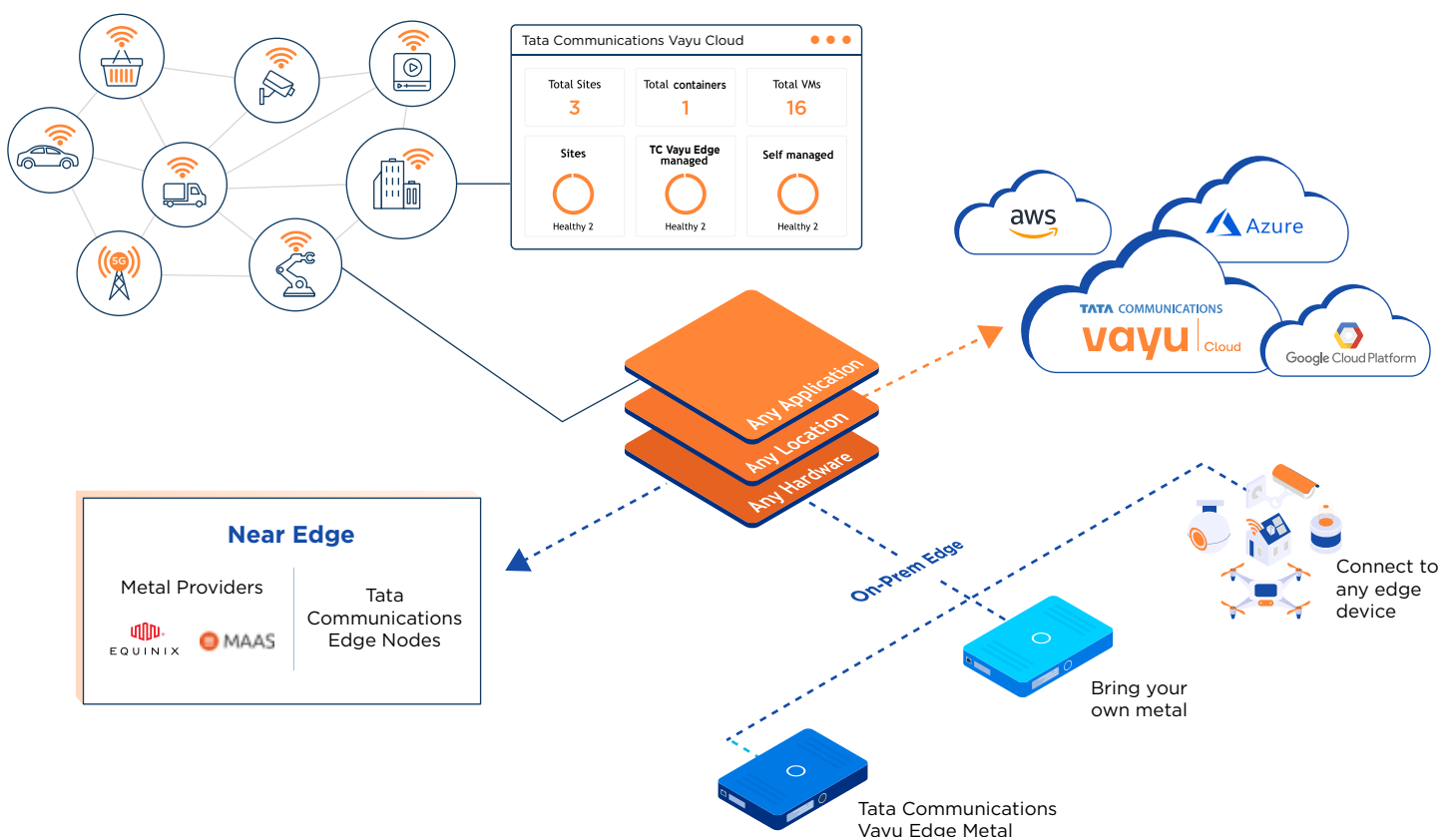
## Top Challenges

-  **Hardware/Cloud diversity:** Different IT and environment resulting in fragmented visualisation, control, and management
-  **System:** Concerns with future-proofing investments, considering how edge investment will impact legacy equipment, work
-  **Security:** Concerns that hinders moving from pilot to production
-  **Skills:** Navigate the breadth of technologies and skills needed in the ecosystem

## Drive value driven outcomes for your business with Tata Communications Vayu Edge

Tata Communications Vayu Edge is a fully automated edge computing platform for driving industry leading edge use cases that accelerates innovation while delivering significant value and digital experience to customers with the freedom of deploying and managing any application on any hardware at scale.

From enabling real-time analytics at the edge for instant decision-making to ensuring secure and scalable deployment of edge applications, Tata Communications Vayu Edge unlocks endless possibilities. It empowers businesses to transcend boundaries, explore business use cases, and thrive in an increasingly data-driven world.



# 3 P's of Tata Communications Vayu Edge: Giving you the freedom of choice

## 1. Tata Communications Vayu Edge Prime

Get started quickly with fully managed and hosted platform

- SaaS platform for you to quickly start
- Faster deployment with deployment time as low as 30 mins
- Instant geographic scaling with access to 100s of geographic locations
- Fully managed services for compute, network & storage with managed platform services like DBaaS PostgreSQL, Redis & more
- Pay as you go pricing
- 24\*7 support through certified professionals



## 2. Tata Communications Vayu Edge Proximate

Seamlessly connect with Plug and Play convenience

- Readymade edge in a Box for driving leading industry use cases
- Run your application at Ultra-low latency.
- Infrastructure and application lifecycle management
- Robust security and compliance
- MRC pricing
- 24\*7 support through certified professionals

## 3. Tata Communications Vayu Edge Private

Craft your own edge cloud

- Get full control of the Tata Communications Vayu Edge platform and data
- Data sovereignty
- Tailor your solution with scalability and customisation
- Optimised software with diverse hardware support
- Subscription-based pricing
- 24\*7 support through certified professionals

# Top 3 Use case scenarios

## Manufacturing

- Quality control
- Production line diagnostics
- Warehouse Automation
- Supply chain optimisation



### Impact:

- ↑ Supply Chain Performance
- ↑ Transportation Efficiency
- ↓ Scrap & waste rate
- ↓ Damaged goods rate
- ↓ Inventory turnover
- ↑ Overall equipment efficiency
- ↑ Process efficiency
- ↓ Production cost per unit

## Retail

- In-store Shopping Enhancement
- Magic Mirrors and Virtual Try-Ons
- Robust POS Systems
- Shrinkage Reduction
- Seamless Walkout Checkout
- Stock-Out Monitoring



### Impact:

- ↑ Avg. time spent in store
- ↑ Avg. transaction value
- ↑ Sales Productivity
- ↑ Customer footfall
- ↓ Wait time
- ↑ Real time inventory visibility
- ↓ Shrinkage stock outs

## Connected cars

- In-Car Entertainment & Infotainment
- V2X (Vehicle-to-Everything) Communication
- SOTA
- Mobility
- Driver Assistance and Safety



### Impact:

- ↑ Customer Retention
- ↑ Operational Efficiency
- ↑ Cost savings
- ↓ Costly recalls



# Why our solution is the perfect fit for your business



## Supercharge your business

With industry leading edge use cases

- **50+ Ready** to use Industry leading use cases available
- **Effortless and secure orchestration** of compute, storage, edge apps, AI foundry and multi cloud network
- **Collaboration** through a robust partner ecosystem



## Empower data driven excellence

With AI@Edge capabilities

- **Data driven** insights and decisions with comprehensive range of Data-lake solutions including Hadoop, DBaaS, Object Store and more
- **Enhance real-time performance** with Inferencing@ Edge via GPU enablement
- Design, schedule and trigger low code data pipelines with **unparalleled flexibility**
- **Accelerate the deployment** of AI@Edge applications with ML Ops and no code data connectors
- **Exploratory data analytics** at the Edge for real time decision making with customisable dashboard for insights



## Transform, modernise & future proof

with our fully automated, cloud and infra agnostic edge computing platform coupled with complete set of managed services

- Deploy and manage **ANY** application on **ANY** hardware at **ANY** location
- **Centrally** provision & orchestrate edge infrastructure in a fully automated manner
- Hassle free experience with **fully managed services** providing modern DB, MQ, Caching, Big data, NoSQL, API mgmt., as a managed service



## Flexible deployment options

from 3P's (Prime, Proximity, Private) of Tata Communications Vayu Edge providing unlimited options on network/hardware/form factors

- **Scale** to unlimited devices from **ANY** cloud at **ANY** location with Tata Communications Vayu Edge Prime
- **Enjoy the ultra low latency** along with Plug & play convenience with Tata Communications Vayu Edge Proximate
- **Get full control** of the platform and data with Tata Communications Vayu Edge Private



## Accelerate your time to value

With Zero touch quick deployment, self-serve, pay as you go services

- **TC\* self-service portal** can scale up and down bandwidth and virtual network functions in minutes
- **Transparent cost** with up to 30% reduction in total cost of ownership
- One console, one view to manage diverse edge infrastructure and applications through **single pane of glass**