Industry Overview

Telecommunication companies are facing increasing demands for faster, more secure, and highly efficient services. In addition, market requests are shifting beyond voice and text services, focusing on internet-based communication platforms. This transition is intensified by the growing influence of hyperscale technology giants offering a range of services including cloud computing, data storage, and digital platforms.

With the advent of edge computing, telcos have a unique opportunity to enhance their offerings, providing innovative solutions to enlarge their own service offering, and add new services to various industries. Telcos can take advantage of edge computing to generate additional recurring revenue, leveraging both their wired and mobile networks.

Nuvla.io is SixSq's ecosystem that revolutionises the implementation of edge computing for Telcos. It is safe, easy-to-use, application-centric, hardware-agnostic, cloud-neutral and container-native.

Edge Computing in Telco

Service quality and insights:
Through the power of edge computing, telcos can introduce cutting-edge monitoring solutions that offer real-time insights into network performance. This enables proactive maintenance and rapid issue resolution, ensuring high quality and security.

Security and threats management:
Edge-based cybersecurity mechanisms can identify and mitigate potential security threats, thereby ensuring the integrity of data. The minimized latency achieved through edge computing significantly optimises service delivery, resulting in elevated user experiences.
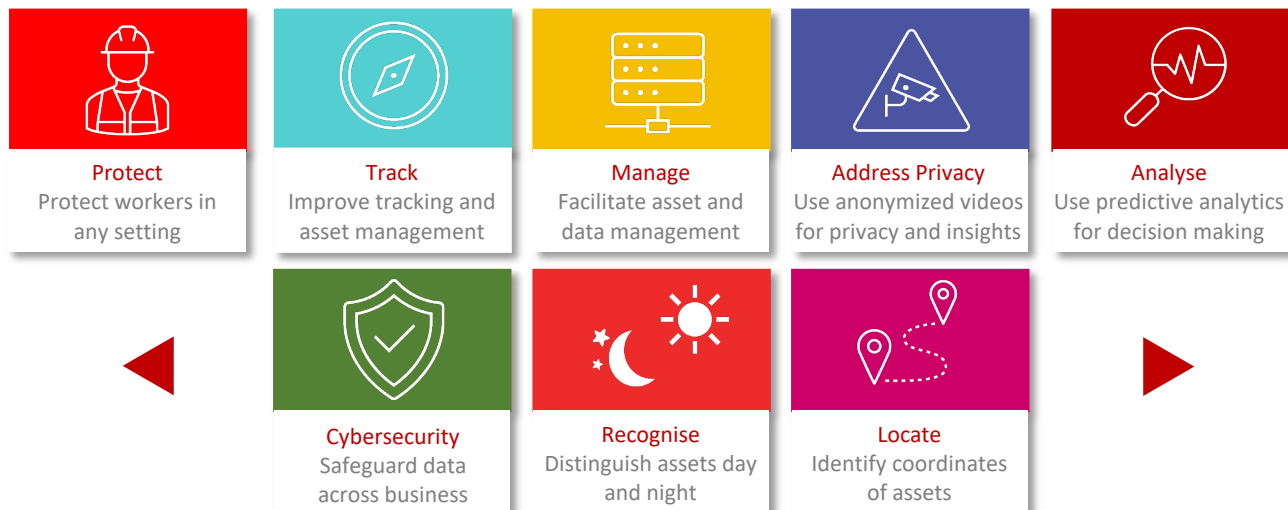
Telcos' customers:
Now customers can benefit from business apps running "in the network" even on their own premises. Delivered by their trusted telco provider, customers don't have to involve new software providers, since apps can be delivered via a simple and effective marketplace.

Containerised applications:
Another challenge involves identifying efficient solutions for managing and scaling containerised applications. Edge computing provides as a powerful solution, addressing the complexity of handling these apps while reducing operational and resource demands.

Nuvla.io in Telco

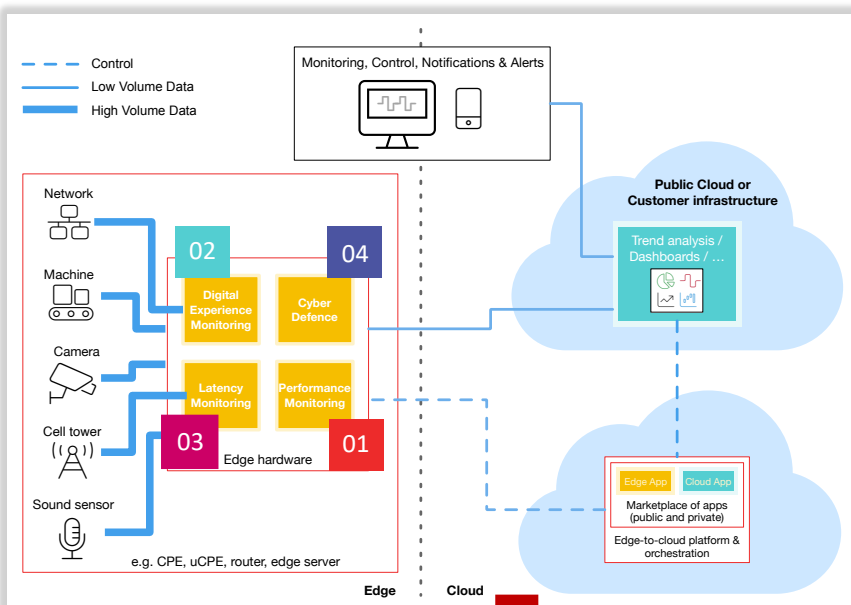The implementation of edge computing through Nuvla.io can help you to:

Protect Protect workers in any setting	**Track** Improve tracking and asset management	**Manage** Facilitate asset and data management	**Address Privacy** Use anonymized videos for privacy and insights	**Analyse** Use predictive analytics for decision making
	Cybersecurity Safeguard data across business	**Recognise** Distinguish assets day and night	**Locate** Identify coordinates of assets	

and more...

How can Nuvla.io support Telcos

Edge computing practices normally require technical knowledge, training, and specialised personnel able to run a complex digital ecosystem. Nuvla.io takes this complexity away, keeping you focused on your business.

Nuvla.io provides a diversified suite of applications in a unique edge-first marketplace to enable your business at the edge. We operate to avoid vendors' lock-ins and dedicate our efforts to providing a simple interface and enjoyable user experience which allows anyone to operate otherwise complex edge computing systems.

To deep dive into more tangible elements linked to your needs, we propose a bouquet of apps from our marketplace:

01 Performance Monitoring: Real-time and regular probing and monitoring of local infrastructure.

02 Digital Experience: Verify availability of remote cloud services essential for business continuity (e.g. backup systems).
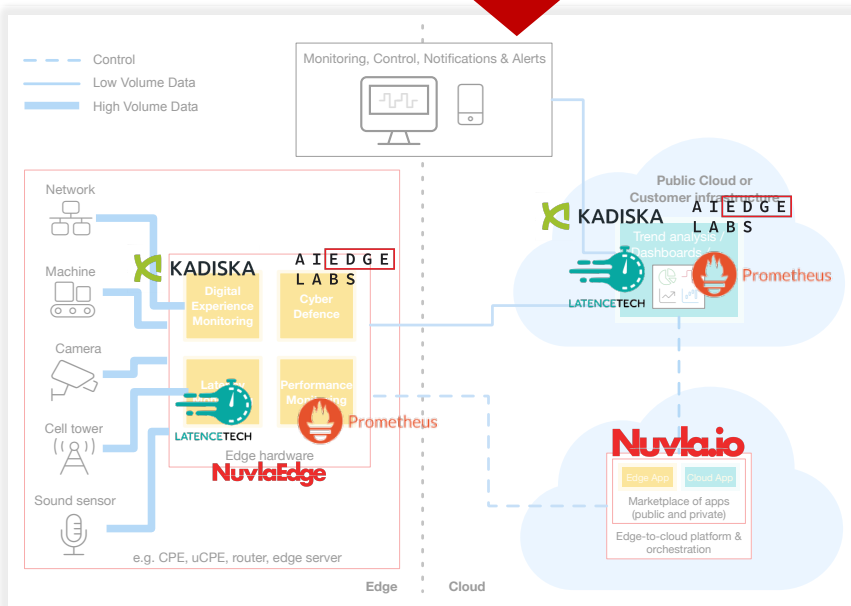
03 Latency monitoring: Monitor, predict, track and evaluate the status of latency.

04 Cyber Defence: AI powered cyber security solution to protect edge devices, its data, applications and sensors.

A Bouquet of Solutions

✓ **Cutting monitoring, QoS verification and alerting, business continuity assessment:** You get a modular solution, with no lock-in, taking advantage of an open eco-system.

✓ **Reuse existing hardware to reduce costs and carbon emissions:** You can deploy on a wide range of existing and new hardware (e.g. routers, CPE and uCPE).

✓ **Easily scales on wide range of sites:** You get an open, low network dependent solution, based on standards.

Nuvla.io offers a variety of existing ready-to-use apps that serve your specific needs. For network operations, Kadiska, LatenceTech, Prometheus, and AI Edge Labs would constitute a comprehensive bouquet of apps; while the same solution can deliver bouquets of apps for sectors such as: retail, logistics, manufacturing, utility/energy and transport.

You also have the total freedom to register in Nuvla.io your own and/or third-party apps.

Unleash the power of Edge Computing with Nuvla.io