Passenger Transport

Industry Overview

The passenger transportation industry is in a constant state of evolution, compelled by the ever-increasing need for efficiency, safety, and passenger satisfaction.

The drive to deliver safer services to happy passengers while at the same time improving operational efficiency is pushing transport providers to find new ways to improve their services and offerings. The key to success in this dynamic field lies in harnessing revolutionising technologies such as edge computing to provide efficient, safe, and attractive services.

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

Edge Computing in Passenger Transport

Information sharing for a safer trip:
Edge computing uses real-time data to provide drivers with a clear, consolidated view of essential journey information for a comprehensive understanding of their trip without compromising safety.

Prompt notifications of critical events impacting passengers and crew are obtained via the edge.

Optimising operations, resources & safety:
Edge computing ensures transportation providers and operators have access to data to optimise operations, resource management, and passenger safety.

Personalised & seamless experience:
Edge computing enables a personalised and seamless experience.

Passengers today expect real-time updates on routes, schedules, and disruptions, digital ticketing solutions, timely notifications , and access to entertainment options. All of which can be supported by edge computing.

Nuvla.io, the innovative infrastructure of SixSq, an Ekinops company, can respond to these needs, keeping a focus on the transport landscape and stakeholders alike.

Nuvla.io in Passenger Transport

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

Cockpit
Create data fusion for an inclusive overview

Detect
Enable issue detection and subsequent alerts

Statistics
Produce GDPR compliant statistics
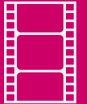
Accounting
Simplify financial processes

Cybersecurity
Protect your digital ecosystem

Video
Gather video analytics for safety and efficiency

Data
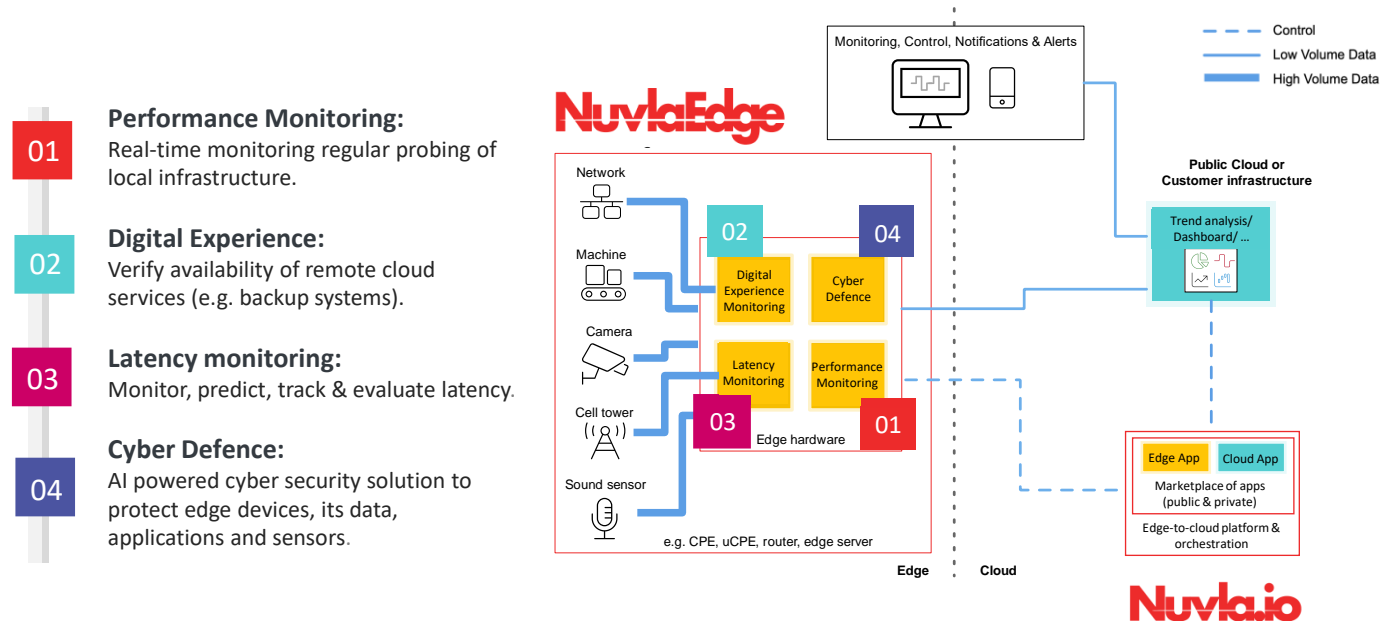Get insightful data on location & occupancy

Media
Provide on board entertainment & ads

and more…

How can Nuvla.io support Passenger Transport

Edge computing practices normally require technical knowledge, training, and specialised personnel able to understand and run a complex, digital ecosystem. Nuvla.io takes this complexity away, keeping you focused on your business.
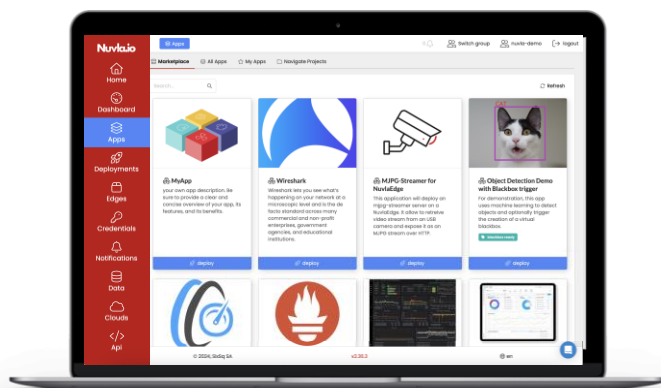
Nuvla.io provides a diversified suite of applications in a unique edge-first marketplace to enable your business at the edge. We operate to avoid vendor lock-ins and provide a simple interface and enjoyable user experience which allows anyone to operate otherwise complex edge computing systems.

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

02 Digital Experience:
Verify availability of remote cloud services (e.g. backup systems).

03 Latency monitoring:
Monitor, predict, track & evaluate latency.

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

NuvlaEdge is SixSq's software that enables hardware to become smart edge devices, securely and remotely managed from Nuvla.io. NuvlaEdge runs on most Linux-based operating systems with support for Docker and Kubernetes.

A Bouquet of Solutions

✅ **Cutting edge computer vision, analytics, reporting, dashboarding and insights:** 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, including cameras and sensors.

✅ **Acceptable by workers and unions yet improving health and safety:** You get a solution designed to be respectful of the privacy sphere of workers and the public.

✅ **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. To learn more, visit our catalogue.

You have total freedom to combine other apps, create your own, or register applications of your choice to the Nuvla.io ecosystem. This gives you huge flexibility to enable you to reach your passenger transport goals.

Unleash the power of Edge Computing with Nuvla.io