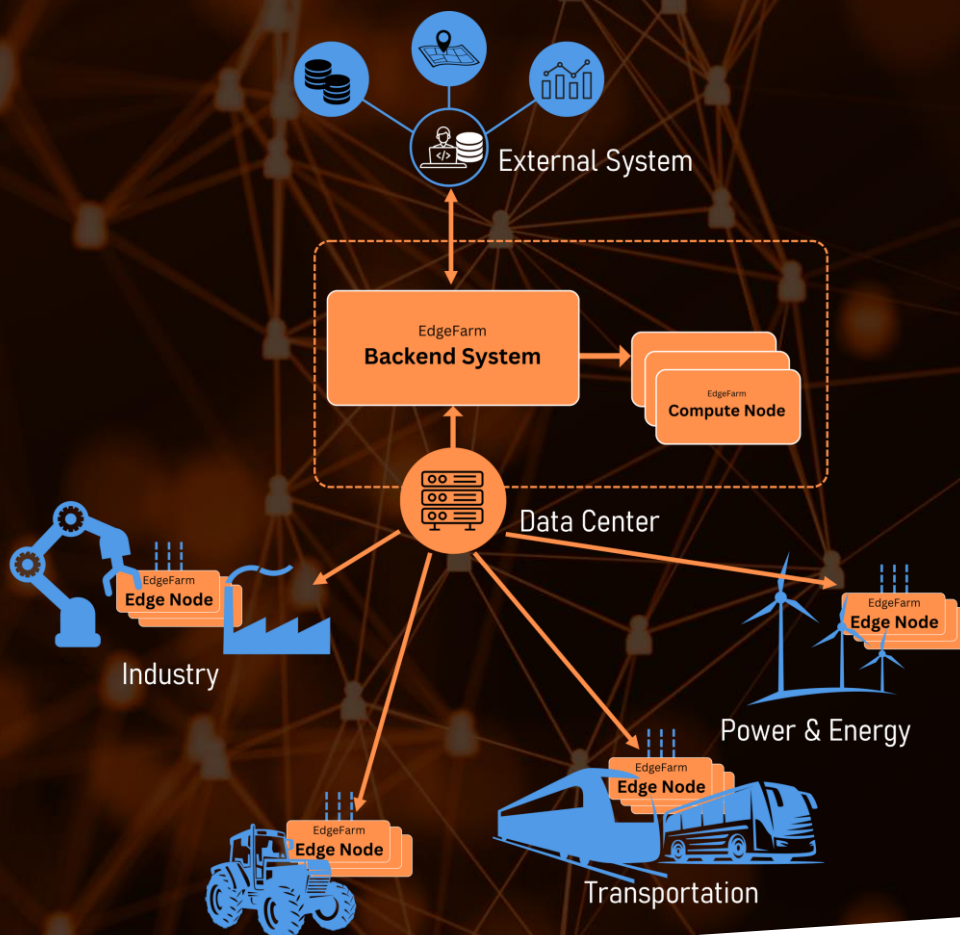# Computing Intelligence for Rail & Public Transport

EdgeFarm

Revolutionize your IoT deployment with EdgeFarm, the open-source platform for management of containerized applications, device firmware updates and monitoring of the entire system, even on unstable network.

Focus on your core competence, we will take care of the rest.

EdgeFarm is a cloud native IoT platform for management of edge- and hybrid applications where application assets can be freely orchestrated between edge and cloud. The cloud agnostic platform integrates edge devices and applications into the Kubernetes cosmos and thus allows simplified management as cloud resources.

EdgeFarm features:

- Over-the-Air firmware / OS / App updates for field devices - **edgefarm.devices**
- Dynamic deployment of edge- or hybrid applications – **edgefarm.applications**
- Reliable communication capable of handling instable networks – **edgefarm.network**
- Monitoring of field & cloud elements and infrastructure - **edgefarm.monitor**

Concentrate on your Business
Simplify complexity through fully managed EdgeFarm IoT platform.

One System – End to End
Manage easily everything from sensor up to user data in one system.
Robust data communication within complete network.

Maintain your Installation Base
Integrates easily in your existing system by supporting any Linux computer.
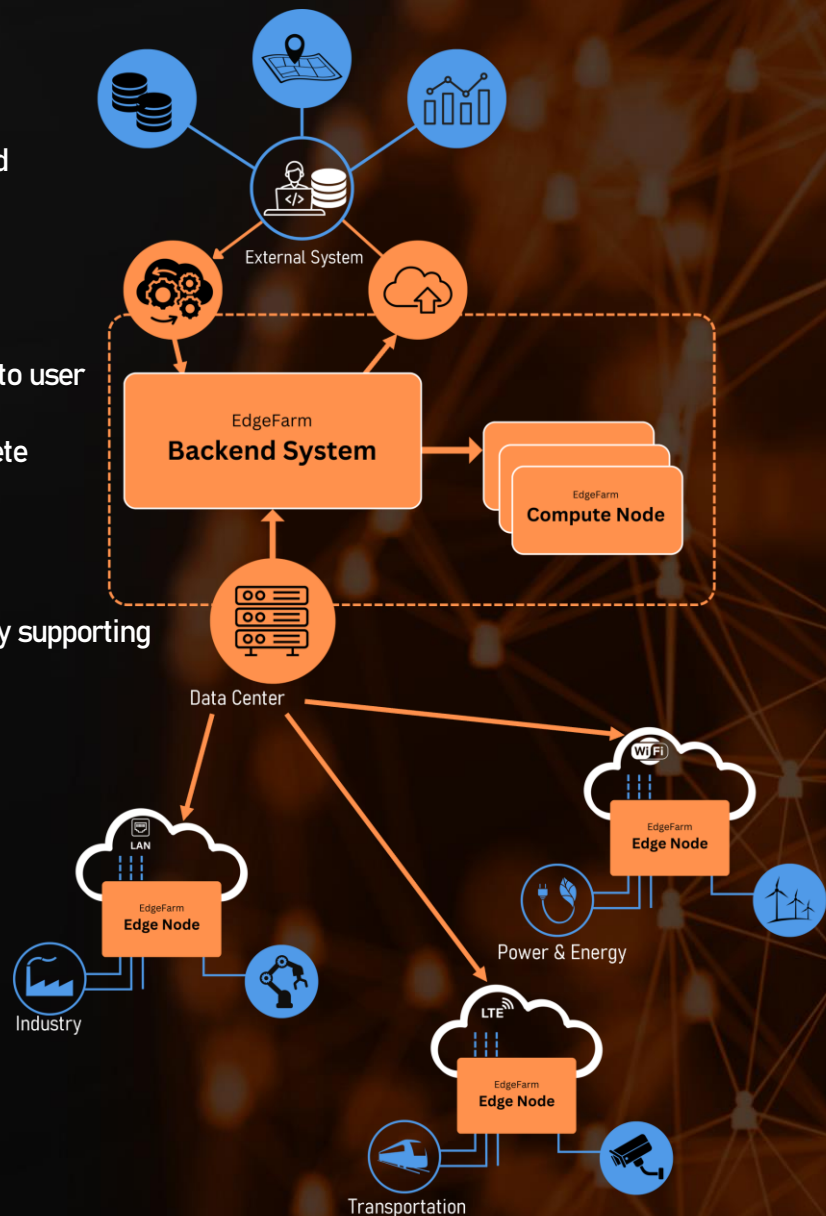Shortens your time to market.

Create Transparency
Learn about the performance of your IoT system in the field. Live and continuously.
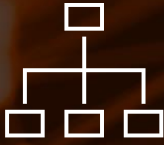
Open Source
Public contributions without vendor lock-in.

... as managed solution, PaaS or on premise

Ci4Rail

One stack to manage everything

Based on Kubernetes, EdgeFarm provides one technology stack to keep you concentrated on your business logic.

No matter if you roll out a new firmware release or just adjust your application configs, all is done in the same way.

Cloud-native as the key

EdgeFarm enjoys all the benefits of Kubernetes and extends it to create a fully GitOps ready platform. Just define your desired state and EdgeFarm takes care of it and remains fully scalable, including edge devices.

Keep your entire system up to date

One solution to centrally update your distributed IoT stack, from the sensors over the edge devices up to the applications on edge or cloud.

Simple integration – easy to use

Your applications run in containers, allowing you to use any programming language. No need for embedded knowledge since simple APIs abstract the interfaces to cloud and sensors.

Lossless communication

EdgeFarm is built to handle unreliable connections. Simply drop your data and the internal network components will ensure that your data is delivered reliably and securely to its destination.

Deal with issues before they occur

By integrating a full Grafana based monitoring stack, EdgeFarm provides all the information to always have an eye on your IoT stack including your edge devices.

THE COMPANY

We increase the competitiveness of transport operators through computer-aided solutions using latest technologies such as machine learning and IT security for condition-based and predictive maintenance.

Ci4Rail offers computer and service solutions that support mobility operators, vehicle manufacturers and manufacturers of subsystems in their digital transformation.

ISO 9001:2015

LRQA
CERTIFIED
ISO 9001

UKAS
MANAGEMENT
SYSTEMS
0001

Approval number(s):
ISO 9001 - 00038589

Our Mission:

Driving the digitalization of rail and public transport with game changing technologies.

Our Vision:

A world in which everyone likes to use public transport because it is faster, cheaper and more environmentally friendly than other forms of transport.

Our focus is both on new equipment and retrofit for:

- Long distance passenger transport

- Freight rail transport

- Rail-bound local public transport

- Road-bound local public transport