

Cloud Native at the Far(m) Edge

Running Kubernetes and AI on Tractors

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USING TECHNOLOGY FOR A MORE SUSTAINABLE ORCHARD



- At least **25%** of crops globally cannot reach the market due to post harvest losses.
- Our aim at **Aurea Imaging**: reduce crop waste with technology.
- How? By **running AI on tractors!**



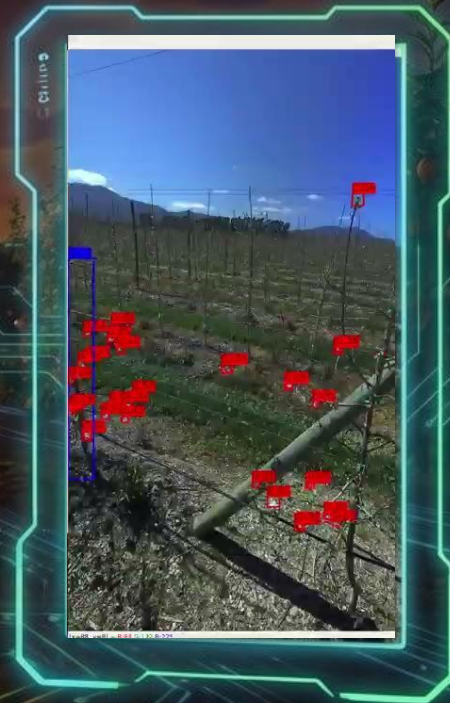
The TreeScout



1. Integrated Hardware



2. Real-time Scanning



3. AI-Driven Insights

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**CLOUD NATIVE
BELGIUM**



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Challenges of running at the EDGE



High availability



Data encryption



Cold boot attacks



Physical attacks



Setup



Maintenance

Kairos, designed for the EDGE



Enhanced Security



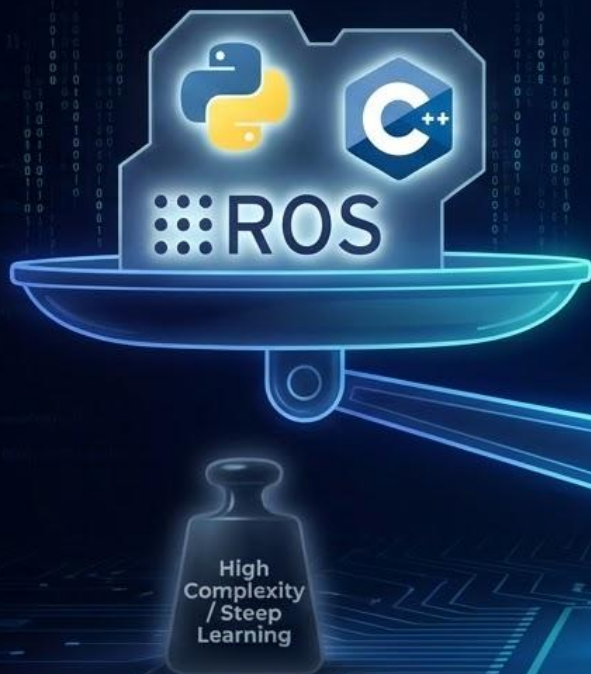
No Config Drift



**Simple
Maintenance**

Why Kubernetes on the EDGE?

TRADITIONAL EMBEDDED APPROACH



CLOUD-NATIVE APPROACH



Kubernetes at the EDGE is already a reality

GE HealthCare



Dentsply
Sirona



Putting it all together

How things are better for Aurea



We don't have to send an engineer on site



Reliable troubleshooting - no more snowflakes



Easier operations and customer support

How things are better for the farmer



20% less waste



How things are better for Kairos

**Support for more
devices**



**Feedback on
using Kairos**



**Improve our
collaboration
mechanism**





Thanks!

Documentation



How to integrate
Kairos architecturally
into an edge AI
platform



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