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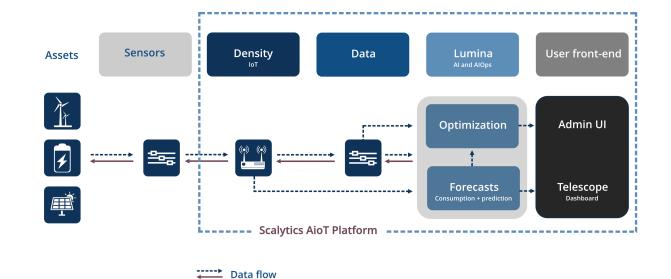
# **Democratizing Big Data**

infinimesh AloT is a scalable open- source platform on **Kubernetes**  We support
Apache
Wayang as an
incubator

Runs on edge, on premise, in the cloud

Is Zero Trust and 100% GDPR compliant, privacy by design **No** vendor lock-in 1500 Downloads per month on GitHub

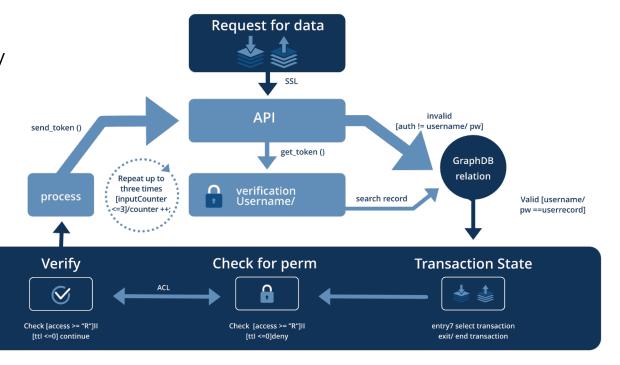






### **Collaboration as a Service**

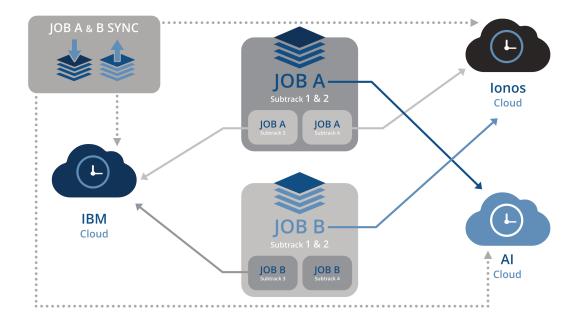
- Token-system for sovereignty, security and privacy
- Crowdsourcing datasets
- Al for everyone, avoiding BIAS, empowering everybody
- Runs all data and sensor environments
- Proof of **user-centricity** and hands on
- Future: Micropayment and blockchain enabled





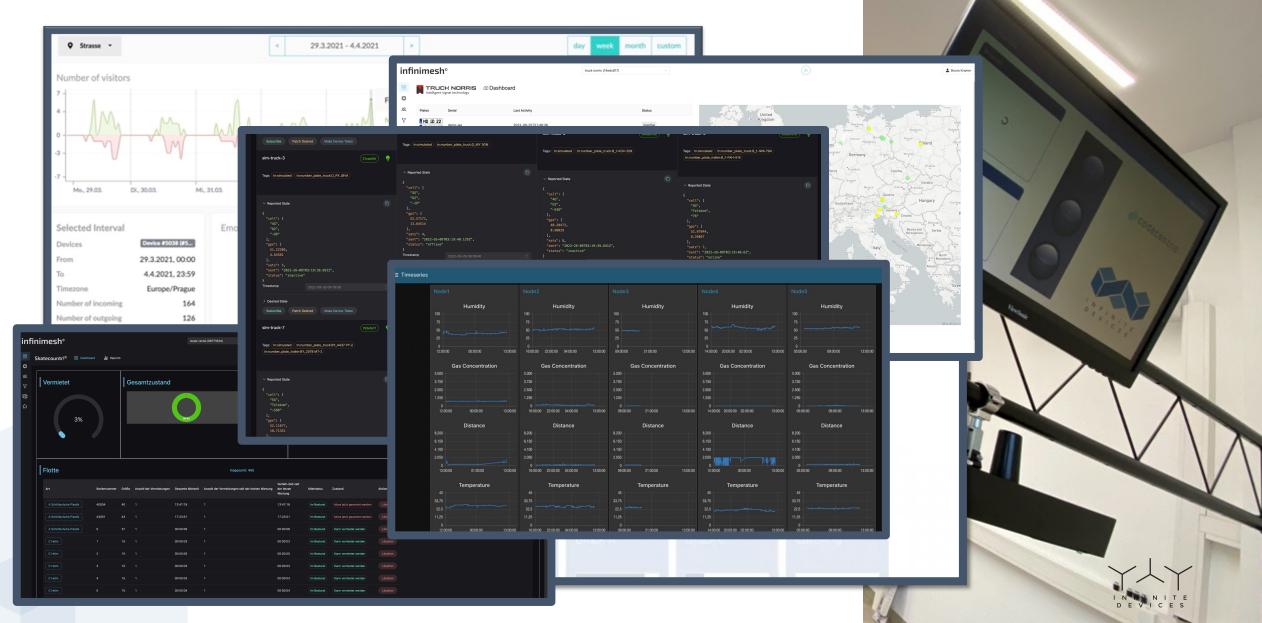
# Data sharing is Data caring

- Open Meta Processing API instead of dedicated execution
- Graph Database
- Plugins for all ecospheres (Redis TS, SAP Hana, Grafana etc.)
- Infrastructure for LSTM AI
- Cloud Orchestration and Scheduler with **Scalytics**
- Al automated selection of optimized frameworks, GDPR compliance and infrastructure
- Distributed workloads and sharing mechanisms



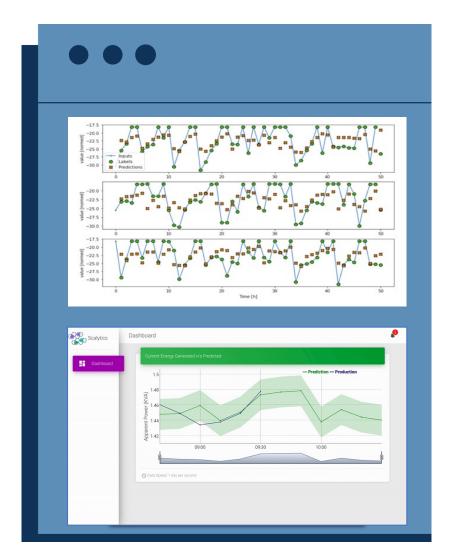


# **Multiple Open Source Dashboards**



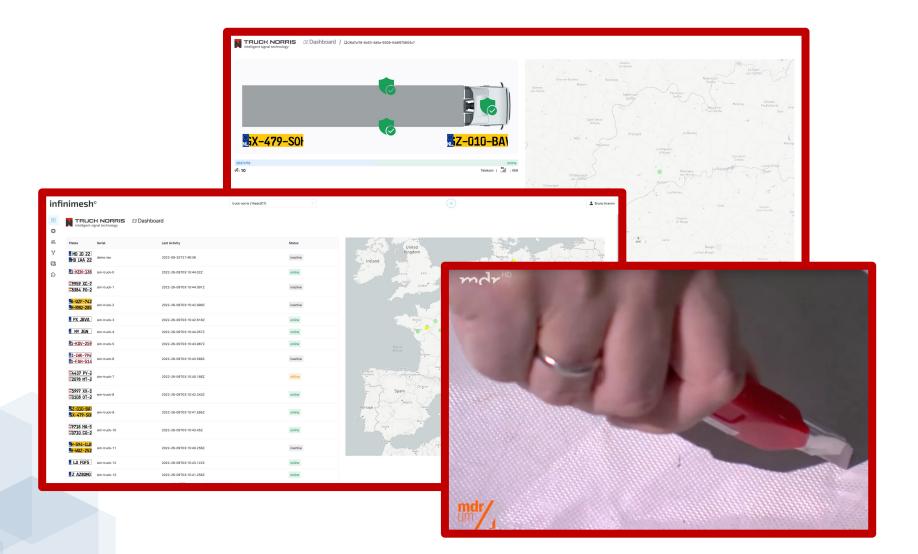
# IoT - eyes and ears of Al

- Predictive Maintenance by long term listening / Analytics
- **12x** faster with large chunk datasets / side injections
- 200x faster with small data (Genome, energy consumption)
- App. **50%** less cloud costs with Scalytics Workload Scheduling
- Various Infrastructure **Plugins** (Redis TS, Grafana, SAP Hana)
- End to End (MQTT Sensors, GSM, NB-IoT, 5G)
- **GDPR-sensitive** workload detection & distribution





# Security TRUCK NORRIS Intelligent signal technology







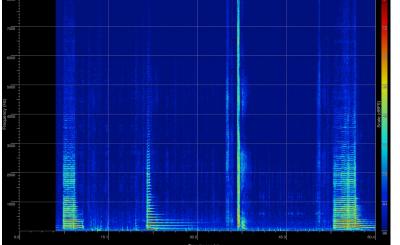


# Colab Predictive Maintenance Audio Recognition & Retrofit

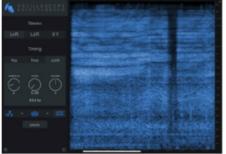
- Gyroscopes / 6 axis
- Microphones (various cardioids)
- Listens to vibrations
- Learns patterns
- Tells about irregularities
- Shares & compares patterns with others (Zero Trust Token)

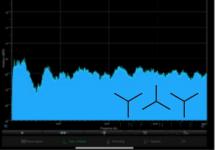








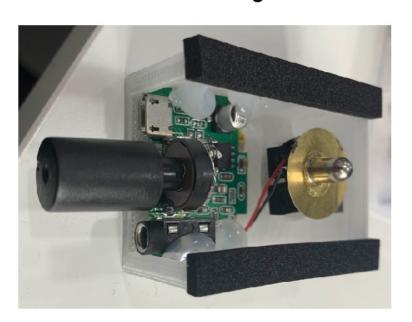






# 3 MIKROFONIE + ULTRASCHALL-SAMPLING

ARF kombiniert konventionelle Mikrofonie (Subkardioid/Omnidirektional)
und Ultraschallsampling (über einen
Bereich von 22 kHz - 48 kHz) zum
optimierten Detektieren von SprayGeräuschen auch bei Regen und Wind.



Wir tasten mit 96 kHz statt den üblichen 32/48 kHz ab. Damit wird ein größeres Spektrum für die FFT Analyse (Fast Fourier Transformation) erfasst. Dadurch erhalten unsere Computervision-Spektrogramme größere Aussagekraft.

Regelmäßige Updates mit neuen

Datasets aus verschiedenen

Umgebungen und Use-Cases werden auf das Device ortsunabhängig via

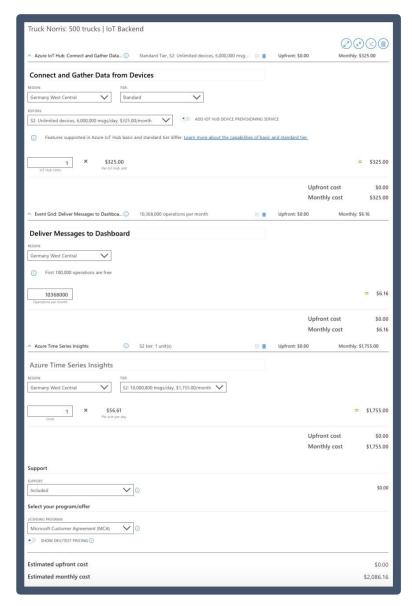
GSM aufgespielt. Die erste KI-SaaS
Sicherheitslösung gegen Graffiti.

- Mehr als zehn Recording-Sessions auf Truck-Folien unterschiedlichster
   Dicke, Alter und Steifigkeitsgrad
- Unterschiedliche Schnittarten entlang der X/Y Achse, Radial, Variable Geschwindigkeiten, verschiedene Schnittwerkzeuge
- Fieldrecording an Planen-LKW (Parkplätze seit dem 4. Mai 2022)
- 1,4 GB Daten: Das entspricht 5000 Schnitten, die ausgewertet wurden!
- Hohe Performance: Das Basismodell läuft mit durchschnittlich 98%
   Accuracy Training auf Hintergrundgeräusche auf NVIDIA Cloud
- Aufzeichnung Spray Detection und Integration

# **ROI: OpenSource vs. Cloud Provider**

- Example: 500 Trucks on IoT Plattform with Timeseries
- Cloud Service >2k € per month

- Infinimesh on Premise
- Infinimesh on Commercial Provider 29,90 € / month
- DSGVO Conformity







# Take data under your control!

### Contact

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