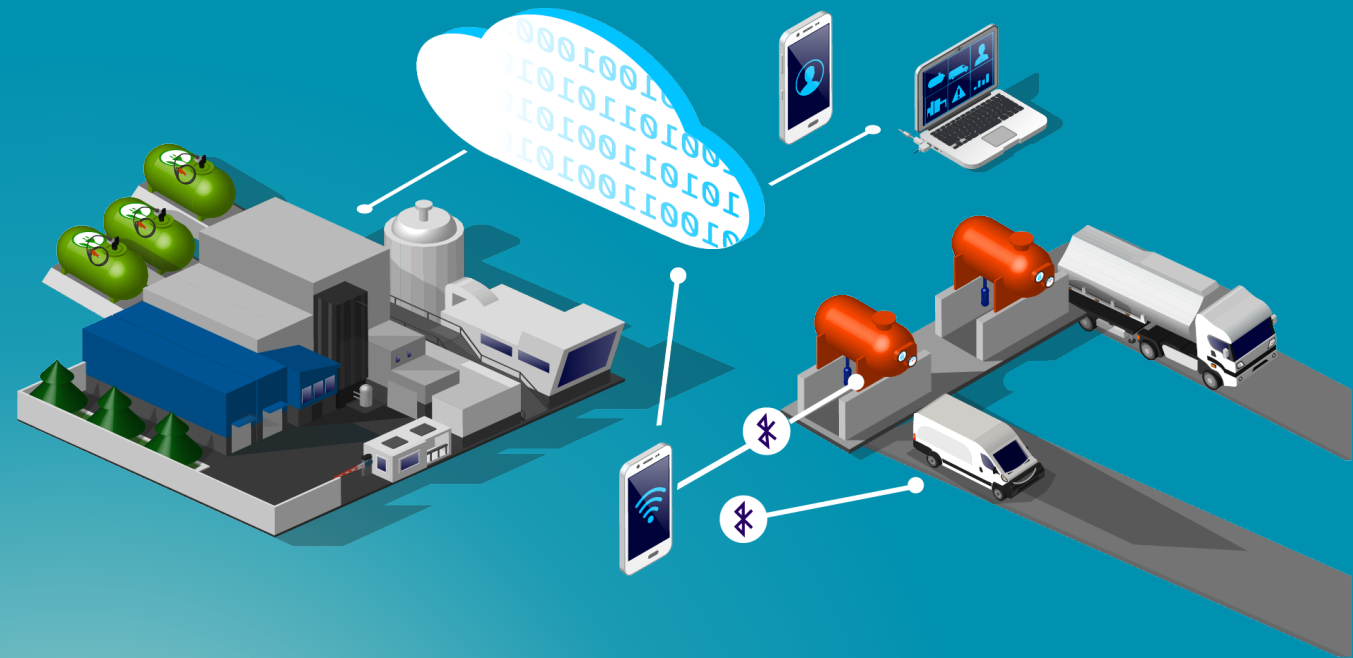




The IIoT Platform for Energy Integrity  
and Operational Accountability



Horizon 2020  
Programme

# Outdated Management of Operational Liquids



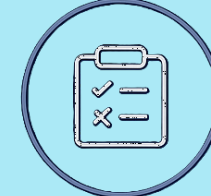
## Fossil fuel use under pressure

- Costs
- Taxes
- CO<sub>2</sub> and fuel emissions regulation
- Social acceptance
- Traceability requirements



## You cannot control what you do not see

- Fuel theft / fuel loss: 5 – 15% per tank filling
- Undocumented refuelling
- Inefficient refuelling and missing transparency: 5–15 % excess fuel use and CO<sub>2</sub> emissions

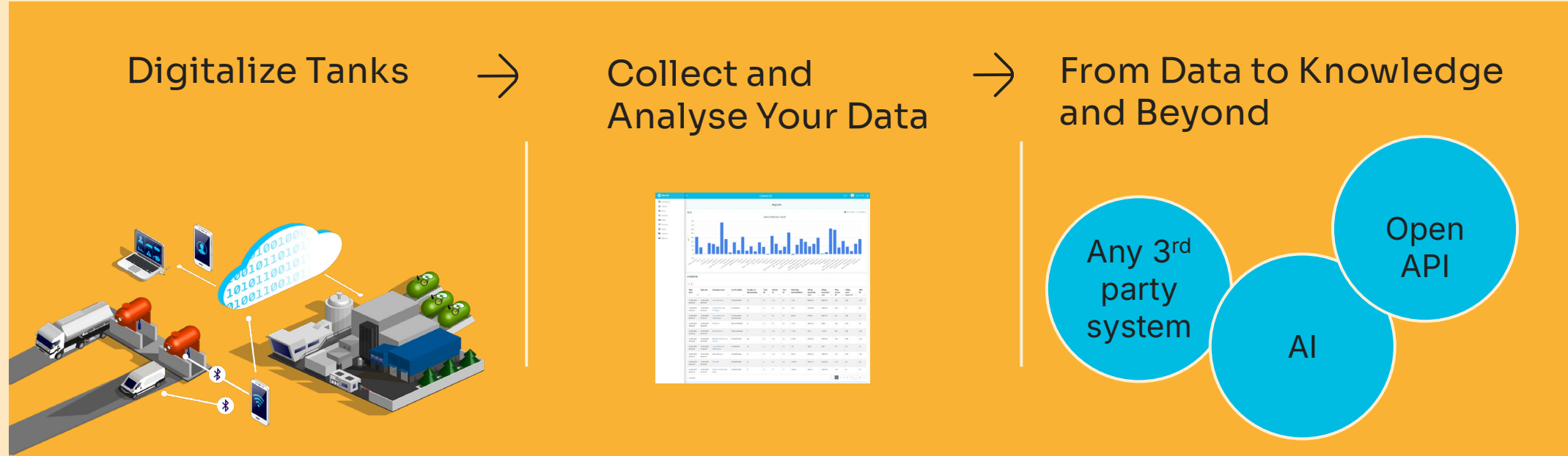


## No integrated solutions

- Long-term investments
- Heterogeneous, very complex infrastructure
- Technologically outdated
- Poor digitalization
- Quickly growing legal reporting requirements

Current management of industrial liquids creates blind spots, high costs, theft, fraud, and weak compliance. At scale, it's a strategic risk.

# The Intelligent Liquid Monitoring Platform



Digitally integrated and highly modular from A - Z

Tracks any liquid in any tank — mobile or stationary

Audit-proof authentication

Extends monitoring technology to hybrid and renewable energy carriers (biofuels, hydrogen, electricity).

# How Does Cipacto Work?

The user logs into the Cipacto app.

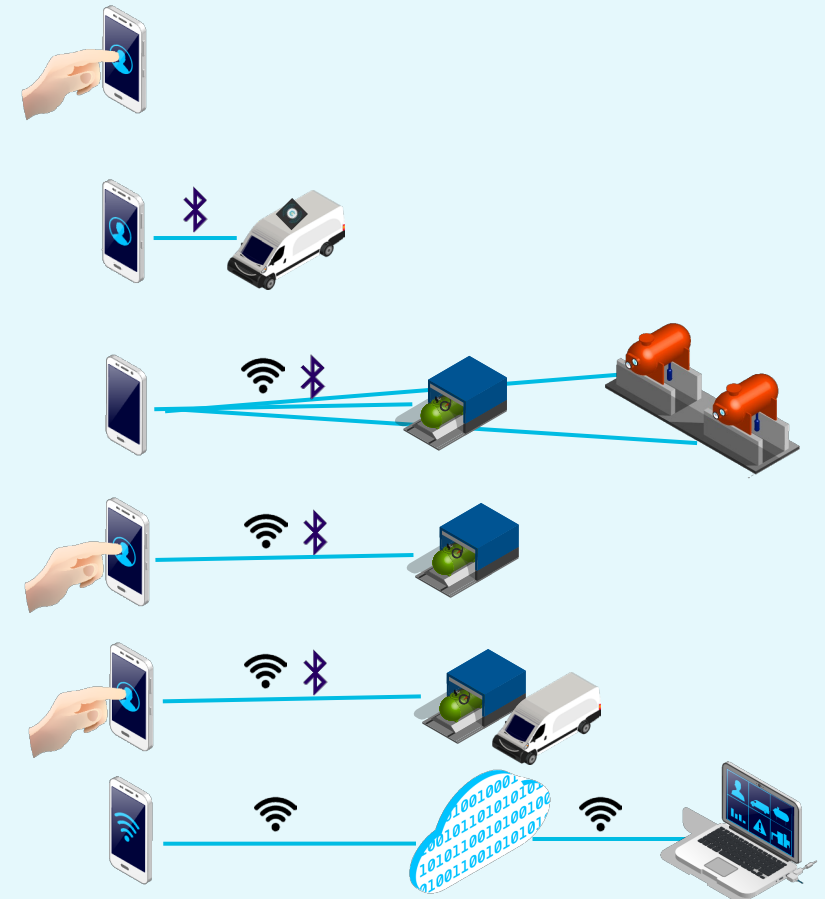
The app connects with the machine (or vehicle) authentication device (BLE beacon or NFC tag) and confirms the authorisation.

The app displays available tanks.

The user selects a tank and confirms refuelling.

All tank and refuelling data are captured in real time and transmitted via the Cipacto microcontroller (SRU) and app to the central application platform (CAP).

Cipacto instantly aggregates, validates, and analyses the data — enabling AI-supported anomaly detection, consumption forecasting, and operational insights across all sites.



# What Makes Cipacto Work?

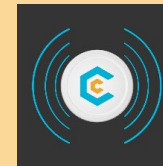
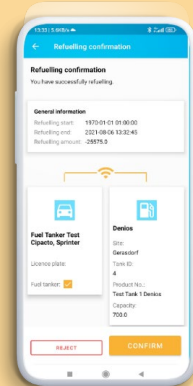
## Hardware



### Tank equipment

- Filling level sensor
- Flow meter
- Cipacto microcontroller (SRU)

## Software



### Cipacto App

- User Identification via app
- Vehicle authorisation (NFC/BLE)
- Secure tank access & data transfer

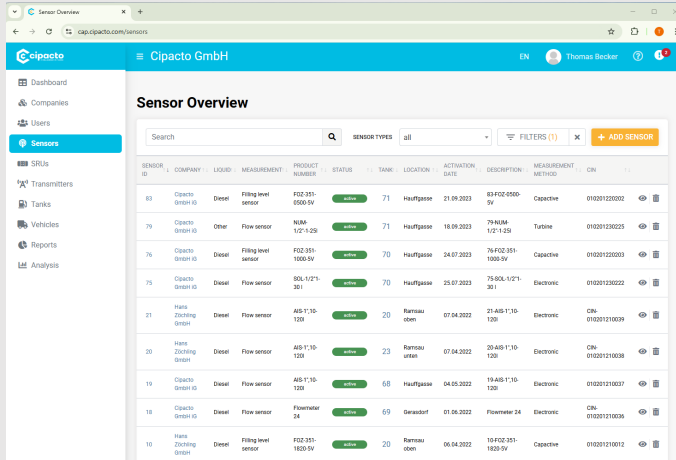
## Intelligence



### Cipacto Application Platform (CAP)

- Administration & Management
- Reporting
- Analytics

# Cipacto Application Platform – CAP



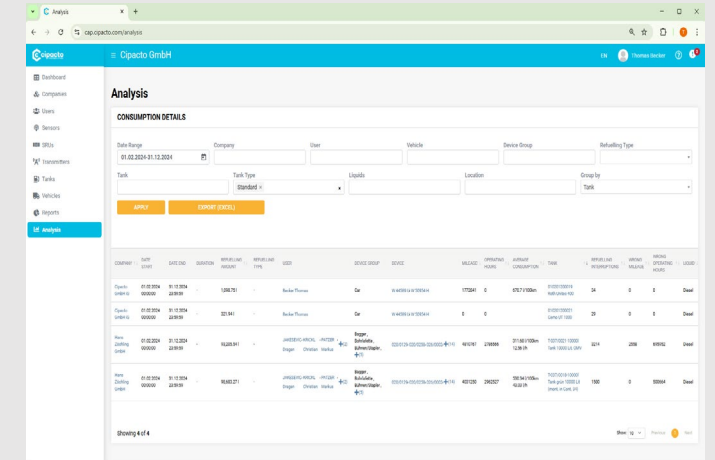
## Administration

- Multi-client administration platform
- User rights and access control
- System setup and configuration



## Reporting

- Real-time refuelling data
- Detailed reports with numerous filtering options
- Highlighting anomalies
- Alerts and warnings



## Analysis

- In-depth usage analytics
- Support for operational oversight and efficiency tracking

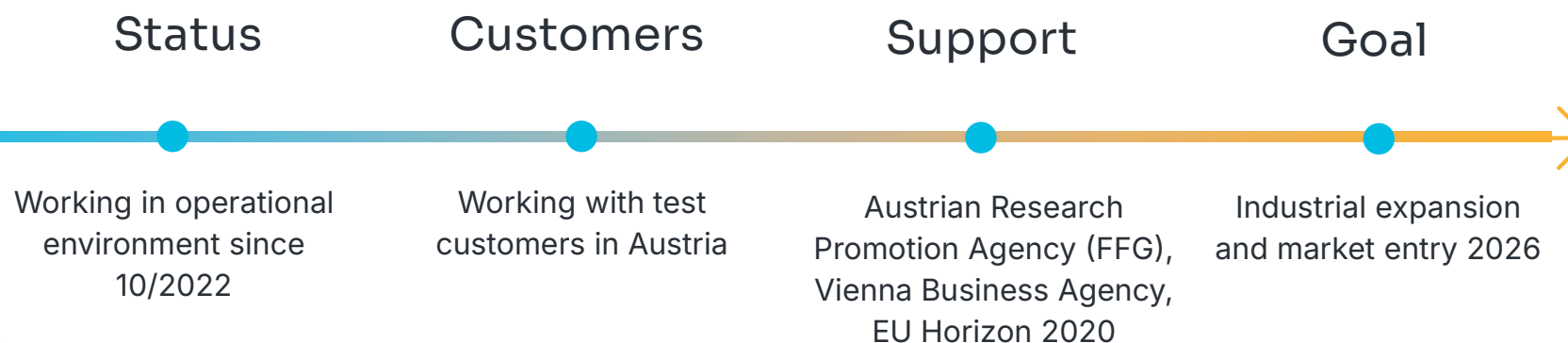
# What Makes Cipacto Unique?



- Proprietary microcontroller ("SRU")
- Combined secure access and data capture functionality
- Information depth - exploitable data value
- Versatility and flexibility regarding 3<sup>rd</sup> party hard- and software
- Integration with corporate systems (ERP, compliance)
- Extends proven monitoring technology to hybrid and renewable energy carriers (biofuels, hydrogen, electricity)

Proprietary hardware and software setup ensures flexibility and long-term investment security.

# Where We Are



Technically validated | Industry-proven  
Ready for scale-up partnerships



# Validated In Harsh Conditions

EnergieDirect

 **EnergieDirect**  
*Mein EnergieVersorger*



**Shell Markenpartner**

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Zoechling



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Geschäftsführer Finanzen  
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+43.664.60791505

**Home Base**

Active system on mobile tanks  
with 200 – 1.000 l capacity



Industrial validation in continuous operation. Technology proven, assets ready for scale-up.

# Who We Are



## Thomas Becker

Product, Finance  
& Communication

- > 25 years of digital transformation leadership
- Co-Founder of 3 Startups



## Oliver Weichert

Web, App  
& Machine Learning

- > 15 years of software development
- Machine learning
- Data analysis



## Frank Hieminga

Embedded System  
& Sensor Technologies

- > 20 years of embedded system development
- Sensors and interfaces



## Jörg Pachale

System Infrastructure  
& Production

- > 25 years of IT administration
- Security & Infrastructure



# Trusted Integrity Layer

Cipacto is an integrated, end-to-end digital solution that monitors liquids in mobile and stationary tanks and all operational participants. It reduces consumption and costs, produces business-relevant intelligence, and improves environmental performance.

Cipacto is the Integrity Layer for Industrial Liquids and Energy Carriers.

- Track any energy source — diesel, AdBlue, water, electricity
- Monitor human input and behaviour: authorizations, errors, patterns
- Provide accountability infrastructure for industrial energy operations



# Open To Talk



- Strategic partnership
- Strategic investment
- Product development
- Pilot testing



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Thank you very much!

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<https://cipacto.com>





# What makes Cipacto unique?

**Tank monitoring 200 – 20.000 l, mobile, stationary, any make, size, form, material**

**Real-time tank access control, otherwise unavailable in-depth information**

**Hardware, software, intelligence**

