RiDERgy

IBE INTERMOBILITY AND BUS EXPO

Energy management software for EV fleets

Supported By

Audi Denkwerkstatt

TotalEnergies

CF

eit Urban Mobility
Co-funded by the European Union

SQM

dena Deutsche Energie-Agentur

BdKEP

UNTERNEHMER TUM

EnBW

Microsoft for Startups

THE BIG PICTURE

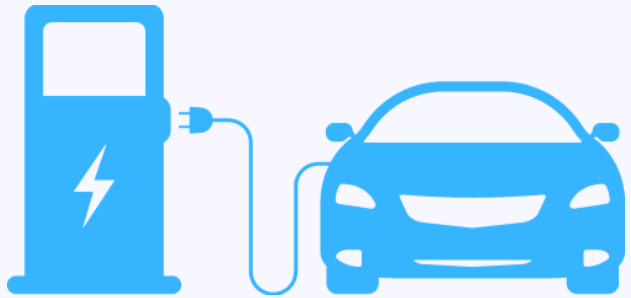
The energy transition needs to be sustainable but faces huge challenges

Our mission: enabling smarter fleet charging

SMART CHARGING POTENTIAL

600 GW of flexibility capacity by 2030 globally

£2.2 billion savings in the **UK alone** using smart charging



Sources *OFGEM: Future Insights Series - Implications of the transition to electric vehicles

1 | BNetzA 610 Mio EUR worth of energy waste in Germany– trend increasing.
2 | ELIA avoiding 600,000 tonnes CO2 in Germany and Belgium by charging EVs optimally.
3 | Netzentwicklungsplan
4 | EAFO and own calculations

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1

Renewables require flexibility & storage

- We risk black outs and massive energy-waste for peak production.
- Demand needs to occur when renewables produce energy.
- Cheap storage is required e.g. for 200 GWh for Germany.

2

EVs have a big demand and battery

- EV additions double yearly, yet availability and integrations with other devices remain hard to manage.
- Charging at the wrong time intensifies the challenges.
- Idle batteries (if all vehicles were electric the total available capacity for Germany would be 2,000 GWh).

3

Expensive & not green without smart charging

- Optimising for costs correlates with optimising for green energy.
- Contributing to grid instability is penalised by grid operators.
- Unnecessary grid reinforcements are expensive.

CUSTOMER PROBLEM

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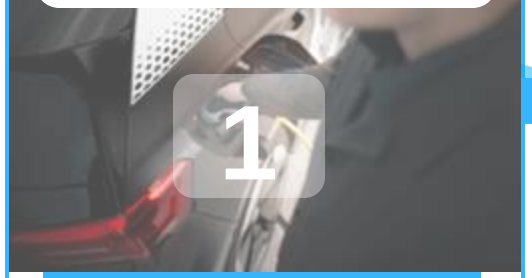
EV fleet managers struggle to keep uptime high, charge with low costs, and use green energy at both their company sites and at public chargers

CHARGING CONTROL



Difficult Operations

Manual control and charging of EV fleets is **costly and time-consuming** for employees

POWER MANAGEMENT

Many co-dependencies

Coordinating energy loads and EV charging throughout the day is **complex and prone to error**.

SYSTEMS COMMUNICATION

Connectivity Issues

Controlling charging and fully **utilising vehicle data** requires low-latency solutions between our software and the cloud.

INTEGRATION FLEXIBILITY

Cloud Computing

Customers struggle to integrate all **systems and hardware,** and so require hardware-agnostic cloud solutions.

THE SOLUTION

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The RiDERgy software for smart EV fleet charging enables high uptime and low costs via AI-based charging algorithms

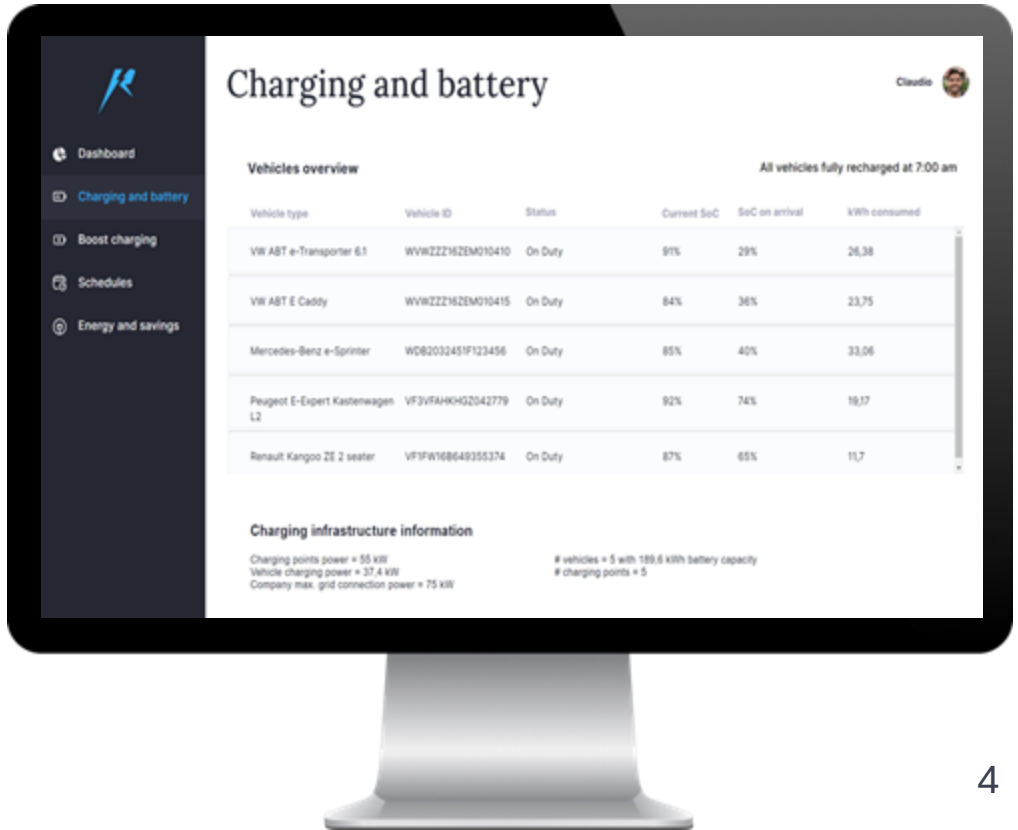
Our vision: catering smart charging to all fleet use-cases

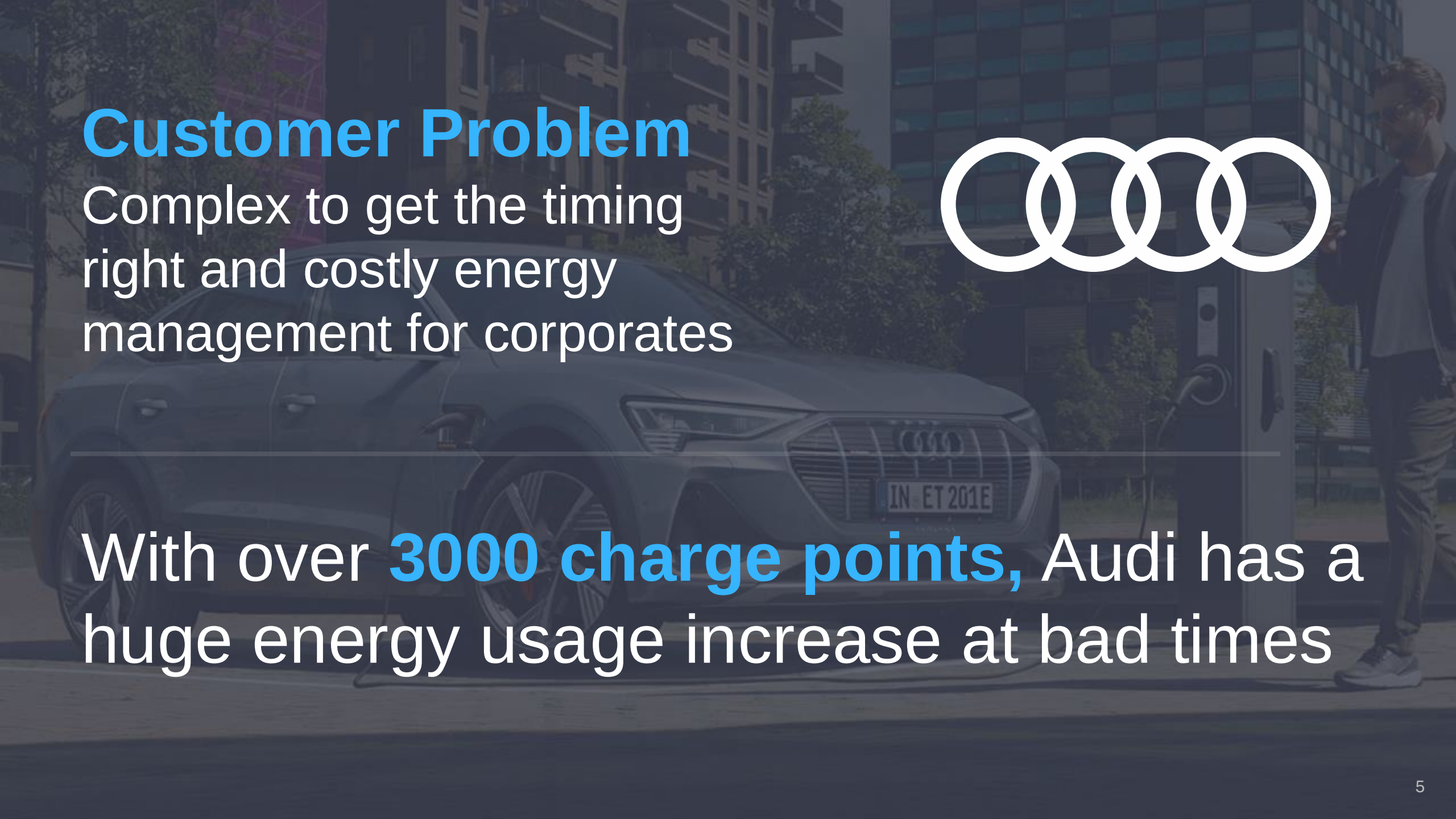
1 AUTOMATED — **AUTOMATIC CONTROL**

2 RESOURCEFUL — **ADVANCED ENERGY MANAGEMENT**

3 PREDICITVE — **AI PREDICTIONS IN THE CLOUD**

4 INTEGRATIVE — **ENHANCED CONNECTIVITY**





Customer Problem

Complex to get the timing right and costly energy management for corporates

With over **3000 charge points,** Audi has a huge energy usage increase at bad times

Which leads to **unnecessary charging costs**

RiDERgy offered the ideal solution

RiDERgy and EIT Urban Mobility

RiDERgy took part in EIT Urban Mobility's Accelerator Programme

Accelerator Programme

eit Urban Mobility X RiDERgy

Opportunities through the Accelerator:

- Contact with investors
- Getting connected with relevant experts
- Learning from fellow start-ups
- Getting connected to different cities

Highlights

Demoday at UnternehmerTum in Munich

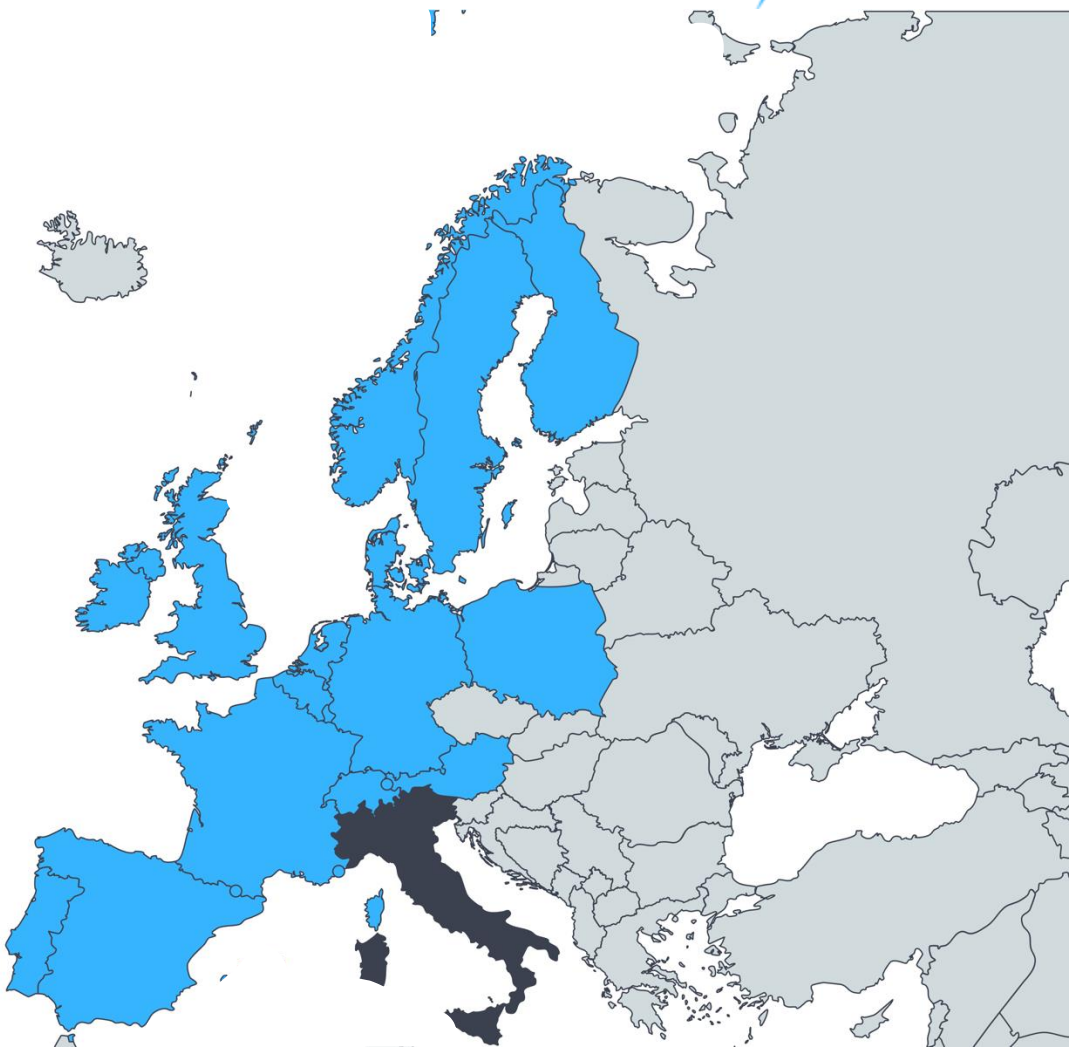
Participating in the Vodafone Innovaction Accelerator

Future outlook

- Customers
  - Bus depots, (inter)national freight transport (E-Trucks!) and last-mile delivery.

- Europe
  - Expansion to other countries
    - PoC for Total Energies in France

- Italy
  - EV sales slowly increasing in Italy, however lots of ground to be covered
  - Italian OEMs switch to electric
  - Electrification of public transport
    - ATACs e-busses in Rome



RiDERgy at IBE

Want to hear more? Let's talk after or connect with RiDERgy on Linkedin!

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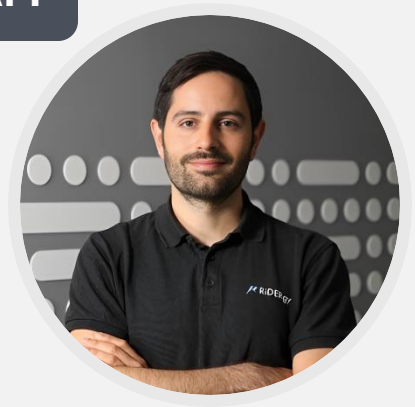
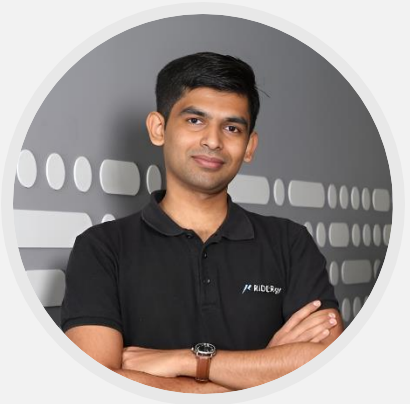
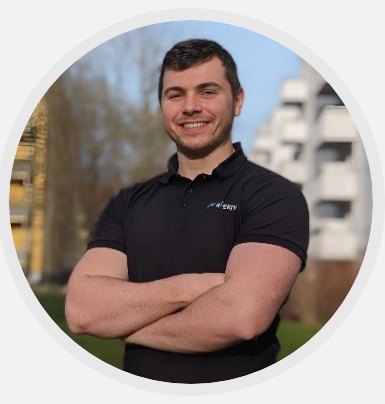
CORE TEAM



Claudio Geyken
CEO & Founder



Aneesh Mohan
Co-Founder & CDS



Richard Clogher
Head of Business Development

And 10+ team members…

ADVISORS

Frank Steuer
Co-Founder Blacklane

Jürgen Mayerhofer
Co-Founder enspired

Thomas Daiber
Ex-CEO Hubject