

FERNRIE

Keynote: Driving logistics automation



Hendrik Kramer
CEO & Co-Founder





Accelerating the transition towards automated and sustainable logistics.



FERNRIDE

FERNRIDE

FERNRIDE

253522
2261

HBTU

MAX GR
TARE
NET
CAP

>10 years

of R&D at the Technical University of Munich before launching FERNRIDE in 2019

>20 m€

funding from world-class investors

>80

employees and growing



manager magazin [Abonnement](#) [Anmelden >](#)

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Fernride
Start-up für Robo-Lkw wildert bei Autokonzernen

Fernride verspricht eine Abkürzung beim autonomen Fahren und will Trucks wie im Konsolenspiel aus der Ferne steuern. Das Start-up wittert ein Milliardengeschäft. Nun kommen Topleute von BMW und Argo AI.

Von **Christoph Seyerlein**
13.05.2022, 07:08 Uhr





  
 B/S/H/  TERBERG
 28   BOSCH



\$3trn
trucking industry



\$3trn
trucking industry



Lack of **400.000**
truck drivers in EU



\$3trn
trucking industry



Lack of **400.000**
truck drivers in EU



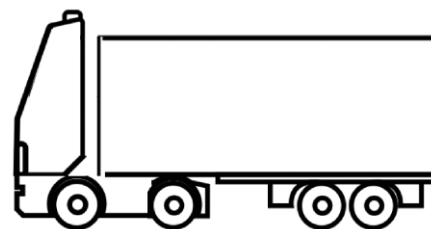
39% of transportation
GHG emissions in EU



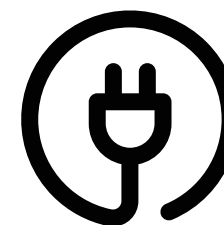
AUTONOMOUS



CABINLESS



ELECTRIC



A dark, stormy landscape with a large, illuminated structure in the background. The structure appears to be a large, multi-story building or a wall, possibly made of metal or a similar material, with a grid-like pattern. The sky is dark and cloudy, with a bright light source visible through the clouds on the right side. The ground is dark and appears to be a mix of dirt and sand, with some sparse vegetation in the foreground. The overall mood is ominous and futuristic.

No-one has delivered this future yet.





- ▶ Charging infrastructure does not exist
- ▶ Autonomous driving at high speeds does not work yet
- ▶ Electric Trucks 5x more expensive



FERNRIDE is able to deliver that future today.

TIPPING POINT FOR ELECTRIC, AUTONOMOUS YARD- TRUCKS IS NOW!



GRADUAL AUTONOMY



YARD-TRUCKING ALLOWS FOR FASTER COMMERCIALIZATION



PRIVATE GROUND ALLOWS
UNMANNED DRIVING TODAY

MAX. SPEED OF 30 km/h

CONNECTIVITY AND CHARGING
INFRASTRUCTURE IS READY TODAY

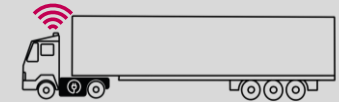
Use cases of terminal tractors on private ground



Internal production supply

Transport process: Cargo is loaded into permanently coupled semi-trailer and transported between transshipment points

Exemplary route: **Production hall** ← → **Warehouse**



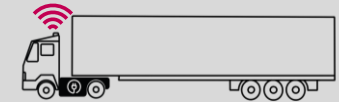
Use cases of terminal tractors on private ground



Internal production supply

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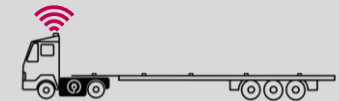
Exemplary route: **Production hall** ← → **Warehouse**



Container handling

Transport process: Container is loaded onto permanently coupled container chassis and transported to different location

Exemplary route: **Port terminal** ← → **Container depot**



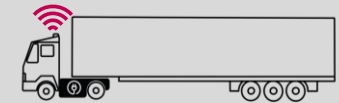
Use cases of terminal tractors on private ground



Internal production supply

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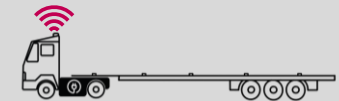
Exemplary route: **Production hall** ← → **Warehouse**



Container handling

Transport process: Container is loaded onto permanently coupled container chassis and transported to different location

Exemplary route: **Port terminal** ← → **Container depot**



Yard shunting of trailers

Transport process: Semi-trailer is coupled, then transported and decoupled at different location

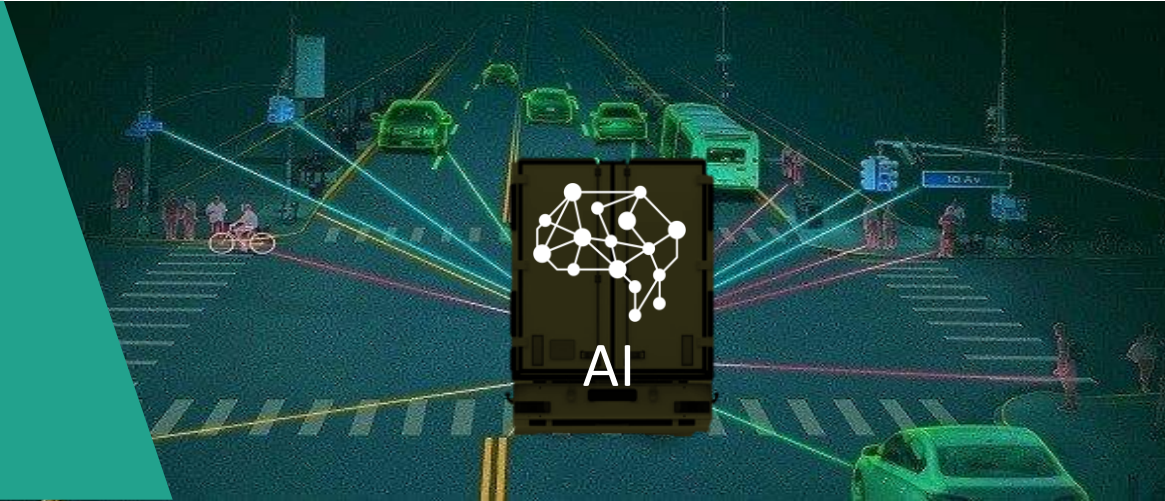
Exemplary route: **Trailer yard** ← → **Loading dock**



Gradual Autonomy

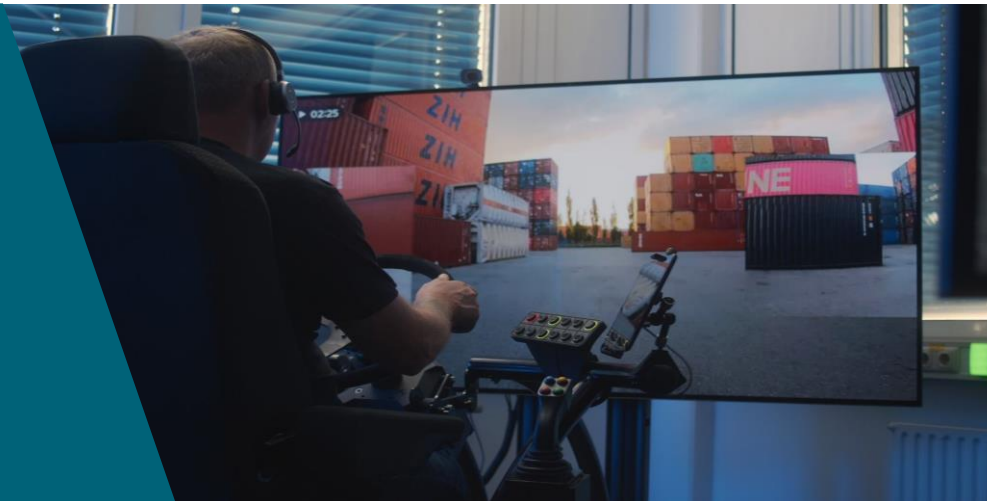
Autonomous Driving

Self-driving software introduced gradually



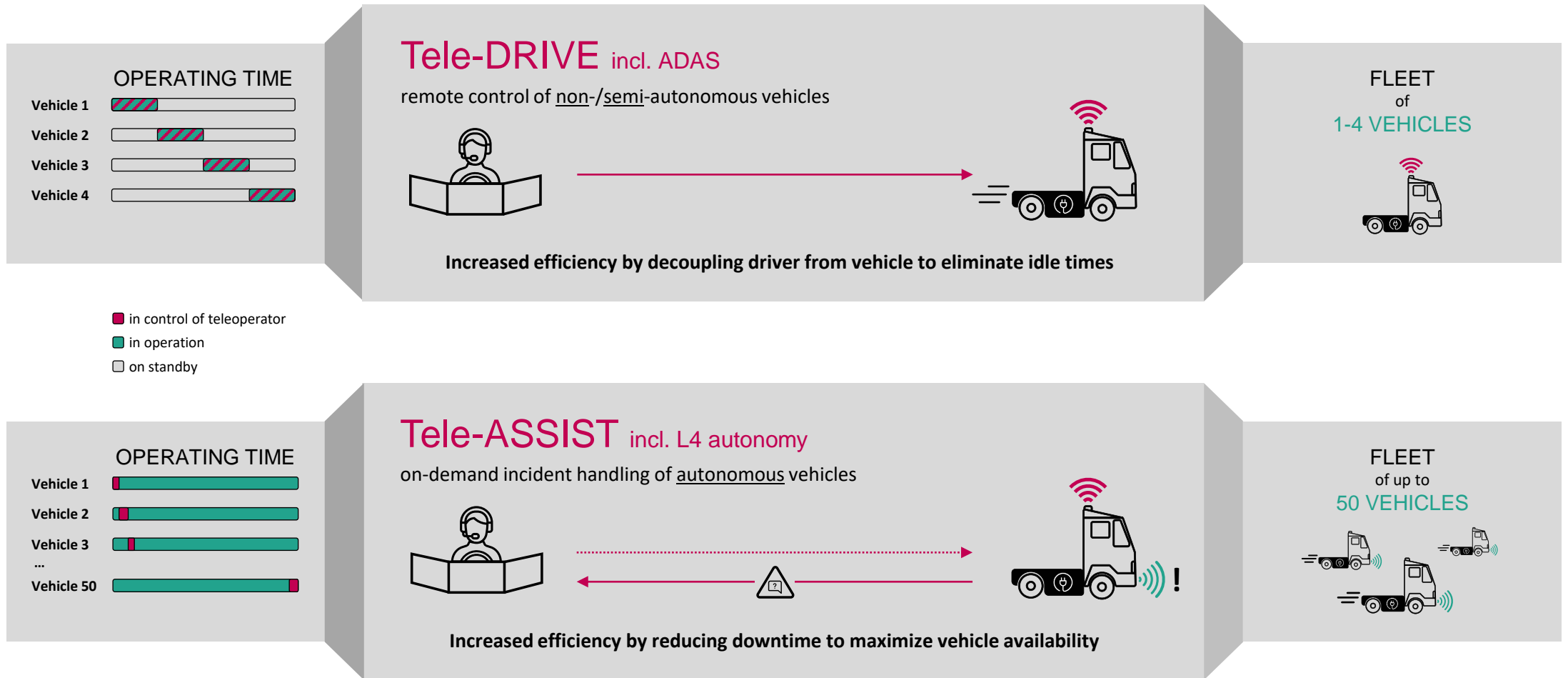
Tele-Driving

Remote-control vehicle operation via low-latency video streaming



1:50

USP of Fernride: Gradual autonomy delivered through teleoperation & autonomous driving in one platform



A driver wearing a black cap and glasses is seen from the side, looking at a tablet mounted in the truck cab. The tablet displays a navigation map with a blue highlighted route. The background shows a road and some greenery. The text is overlaid on a semi-transparent white box with a green arrow pointing right.

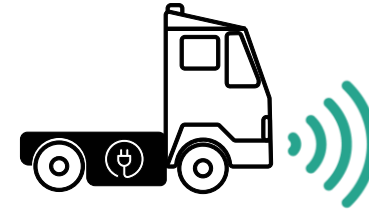
Enabling a **seamless transition** that empowers today's drivers instead of disrupting them while keeping **100% service reliability**.

END-TO-END SOLUTION



SOFTWARE

FERNRIDE



HARDWARE



FIRST STEP: Transport as a Service

Fernride offering full service & operating platform

Seamless integration & competitive pricing



FIRST STEP: Transport as a Service

Fernride offering full service & operating platform

Seamless integration & competitive pricing

SECOND STEP: Platform as a Service

Enable carriers/OEMs/shippers to operate the platform

Scale autonomous, electric Transport as a Service quickly



2023

2024

Next Milestones



20 Vehicles in Operations



Series Product start: Safety Driver Out, 50% Autonomy, Fernride-enabled Trucks available to the market from our OEM partners

2023

2024

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Markets



Yard-Trucking



Public Road Trucking



JIS / JIT



Hub-to-Hub





Some learnings from our projects:
Are you future-proof?



Some learnings from our projects: Are you future-proof?



Humans in the organizations



Processes & Digital Interfaces



Infrastructure (investments)



Equipment future-proof?



FERNRIDE is the partner, not the disruptor.

Carrier | Shipper | Trailer-OEM | Truck OEM | Connectivity Provider | Tier-1

Come to our booth to discuss how we can create the future together



Shippers with Yard Operations

who wish to benefit from
sustainability, efficiency, safety



Carriers with Yard-Trucks

who want to learn how to operate a
fleet of automated, electric trucks



DRIVING,
LOGISTICS
AUTOMATION

WE ARE FASTER TOGETHER

FERNRIDE

DRIVING LOGISTICS AUTOMATION



fernride.com



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