### Turning Autonomous Vehicles into a Tool for Mobility

MOI

BS @ VQ 459 E

Felix Breitstadt, MOIA GmbH

RIVINGTESTINEHICL

MOIA has successfully established on-demand ridepooling as a new urban mobility solution



**MOIV** 

# Since 2017 MOIA is developing innovative digital mobility solutions and ...



... operates Europe's **biggest** ridepooling fleet with 500 fully electric vehicles in Hamburg and Hannover



... as **tech company** has developed a product suite covering the entire value chain



... has transported over six million passengers since 2019

the state





... with **4.8/5 stars** is one of the highest rated mobility services in Germany

### WOIV

## **MOIA** ridepooling: Comprehensive setup and operation of app-based mobility service

Software: App, operations, vehicle interfaces & algorithmus



## MOIA fleet: Complex operational handling due to mix of on-demand, EV and driver requirements

Fleet management, driver management & charging infrastructure



### Along our journey it is obvious that mobility changes require public and private cooperation



Consistent expansion of public transport as the backbone of city traffic



### "Verkehrswende" e.g., in Hamburg

**Digital integration** (through the HVV switch app) of classic and new forms of mobility with a focus on comfort and service

**On-Demand Ridepooling** – sustainable, flexible and comfortable mobility



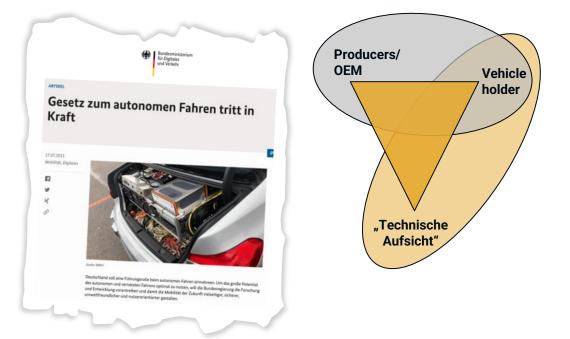
## Next: Autonomous Driving technology will provide basis for scaling overcoming today's hurdles



## Germany: Legislation setting the framework for autonomous operations and homologation

With the new law on autonomous driving, framework conditions have been set that enable important pioneering work in the field of autonomous mobility in Germany.

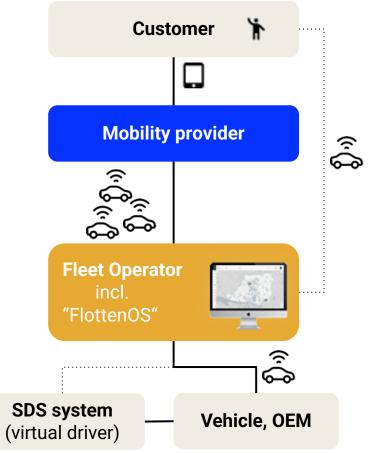
Apart from OEM also operators need to start engaging as severe process and operational requirements of daily operations are defined.



As Mobility Operator our focus is beyond the technology of the virtual driver to ensure...

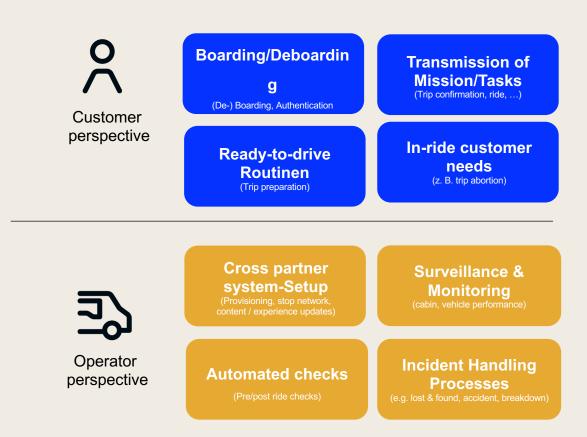
... <u>safe</u> operations and handling of the passengers

... <u>efficient</u> handling of vehicles, service and incidents



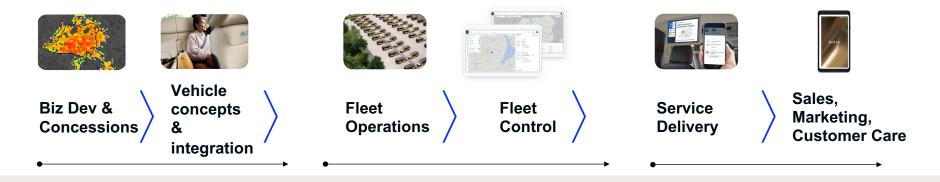
### Commercial capabilities will be defined by

- 1. Performance level of self-driving system
- 2. Use case-oriented vehicle integration
- Operational tooling for vehicle (edge case) handling



WOIV

### We now take ridepooling to the next level



We are condensing our experience and understanding of AD mobility operations in our first AD project in Hamburg:

As of 2023, vehicles will operate an AD testing operation in Hamburg as part of our mobility offering together with the city of Hamburg.



# Thank you!

Felix Breitstadt Head of Product Strategy and Mobility Analytics felix@moia.io

MOIA GmbH Alexanderufer 5 10117 Berlin

www.moia.io

