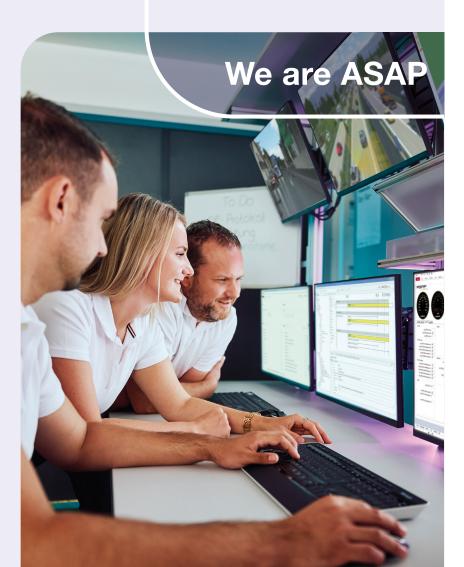
Our driving force is the automobile – our task is the development of future-oriented technologies. As a development partner to the automotive industry, the ASAP Group offers comprehensive services with a focus on the mobility of the future. As an independent subsidiary of the global player HCLTech, we combine stability with an innovative mindset. We are future-oriented and always have the latest technologies firmly in mind.

Benefit from our development expertise in the areas of electromobility, autonomous driving and connectivity. With our five service segments – Electrics/Electronics, Software, Consulting & Service, Test & Validation, Vehicle Engineering – our strategic development focus is on the future-oriented technologies of the automotive industry.



# get in touch

Any questions or projects that you would like to discuss? We'd love to share ideas and explore synergies with you.

asap.de



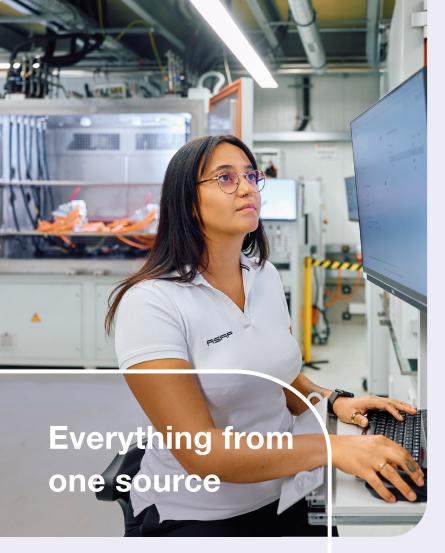
Martin Ott COO martin.ott@asap.de



Dominik SedImair Director Division Test & Validation dominik.sedImair@asap.de



# **Test & Validation**



Electronically. Mechatronically. Mechanically. We offer turnkey solutions for testing automotive components and systems. In our accredited test and validation centers, we cover all process steps of component testing. With individual test environments, state-of-the-art measurement technology and comprehensive know-how. With our expertise, we make cars more reliable, safer and better.

# **Services Test & Validation**

### Component Testing

- Extensive portfolio of environmental testing
- Control unit testing in accordance with relevant standards
- Validation of power electronics and electrical drive systems
- Battery cell testing
- Validation of wiring system components

### Life Cycle Testing

- Electrical drive axles using backto-back test benches
- HV power electronics using life
- cycle simulation systems

# Functional Validation

- Power electronics
- Control unit functions
- Functional validation on different test instances (HIL, power HIL, axle test bench, e-motor test bench)
- Testing in accordance with LV123, LV124 and LV148
- Requirements-based testing in accordance with customer-defined test specifications

# Measurement / Application

- Electric drives
- E-motor measurements (thermal, electrical, mechanical)
- Parametrisation, model validation
- Quality criteria measurement (of applications)

## Homologation

- Testing/approval in accordance with ECE, SAE and GBT (standards)
- Conformity of production (COP) measurements