AHK – Business Meets Innovation Bosch 2023 Tech Challenge

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Who we are

94% of company shares are held by Robert Bosch Stiftung GmbH, a charitable foundation

In 2022









88.2

billion euros sales revenue 3.8

billion euros EBIT from operations

421,300

Bosch associates worldwide at year-end (approx.)

5,600 in Italy across 18 locations and with 3 R&D centers

2020

Bosch achieves carbon neutrality worldwide in scopes 1&2



Who we are

Our business sectors



Mobility Solutions



Industrial Technology



Energy and Building Technology



Consumer Goods





Where we want to go Future mobility

Bosch is pursuing a vision of mobility that is as safe, sustainable, and exciting as possible. To get there, we are focusing on four megatrends: connectivity, electrification, automation, and personalization. Thanks to our decades of cross-domain expertise, we are an innovation leader in all these areas.

Where we want to go Software and services are gaining importance, and hardware will continue to play a central role in our business

- Application software and services expertise goes hand in hand with hardware know-how
- We will focus on building a platform business and enter segments that generate annually recurring revenues.
- Today software is embedded in the hardware. In future, we will also see hardware and software applications being separated.
- New business models are emerging, upgrades can be made over the entire life cycle. Opportunities: shorter time to market, end-to-end architecture, and hardwareagnostic software & services.





Bosch 2023 Tech Challenge Vehicle Should Run

Enhance availability fast & cheap repair

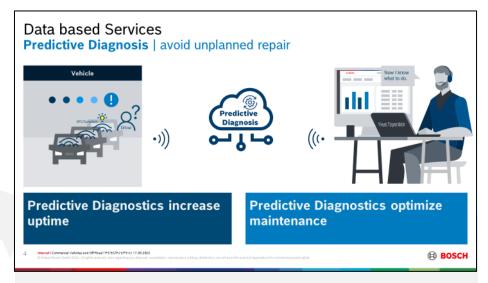




Bosch 2023 Tech Challenge Vehicle Should Run

Enhance availability fast & cheap repair



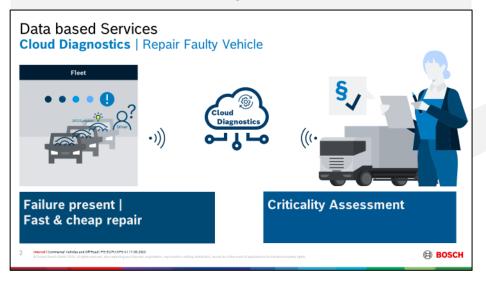


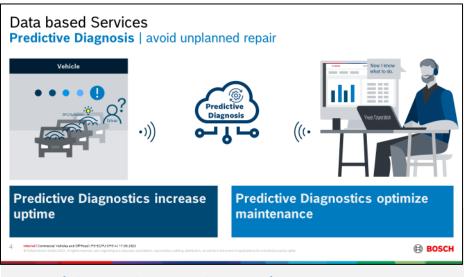
Avoid unplanned repair



Bosch 2023 Tech Challenge Vehicle Should Run

Enhance availability fast & cheap repair





Avoid unplanned repair

- Mobility2.0 increase the availability for commercial use for the fleet operators
- Reduce impact in failure case and go in the preventive maintenance
- One-solution cover the different vehicle brands

Challenge: understand the technical language of all different vehicle



Bosch 2023 Tech Challenge

Translation of data of different vehicle in one common language

Language:

- Diagnose based on UDS
 - Understand UDS sequences commands failure codes
 - Translation to commands and failure codes
- Different CAN networks (powertrain, infotainment, ...)
 - Understand the different CAN messages
 - Translation to physical meaning
- => brand specific implementation & vehicle specific adaption

Challenges:

Translate Diagnose and CAN network in a common language



