

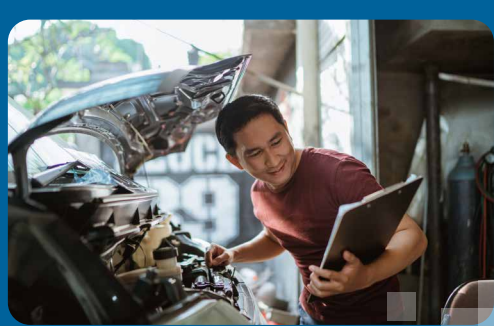
Powered by Mixed Reality  
Driven by Information

## Bosch XR solutions for Automotive Aftermarket



### AR service co-pilot

Intuitive, interactive vehicle diagnostic & repair information



#### Today's workshop Challenges

With technological advancement in modern day vehicles, it can be difficult for seasoned technicians to keep up their skills and even more difficult for novices to know where to start.

Diagnosis and rectification of possible fault sources in modern vehicles is often challenging for workshops and their staff:

- Repair information must be researched in different service system & data has to be transferred to relevant places
- Increasing complexity in diagnosis & repair of modern vehicle
- Traditional 2D workshop manuals are ineffective to understand and complex procedures
- Ensuring technician safety while servicing electric vehicles
- Lack of digital tools for service technicians to be agile
- High cost of training/re-training of resources with limited knowledge retention

AR service co-pilot from Bosch is an intuitive & intelligent solution that enables service technician to have all contextual information they need during vehicle diagnosis & repair on one device when and where needed.

Re-conceptualize 2D technical information into a step-by-step visual guide using full scale 3D models, animations supplemented with information on tools, torque specifications, warnings, measurement values, wiring details & more.

Technician can quickly search diagnosis, repair procedures, wiring, connector information, system overview and view them in 3D or Augmented Reality visualising the exact location of the component/harness on the vehicle.

Solution also enables technicians to capture vehicle data in the form of images, videos, text which gets uploaded to central repository for further analysis and recommendation.

In case of any assistance required from OEM/expert, technician can remotely connect with service expert to get real time guidance.

This empowers your technician to be agile, safe & efficient.

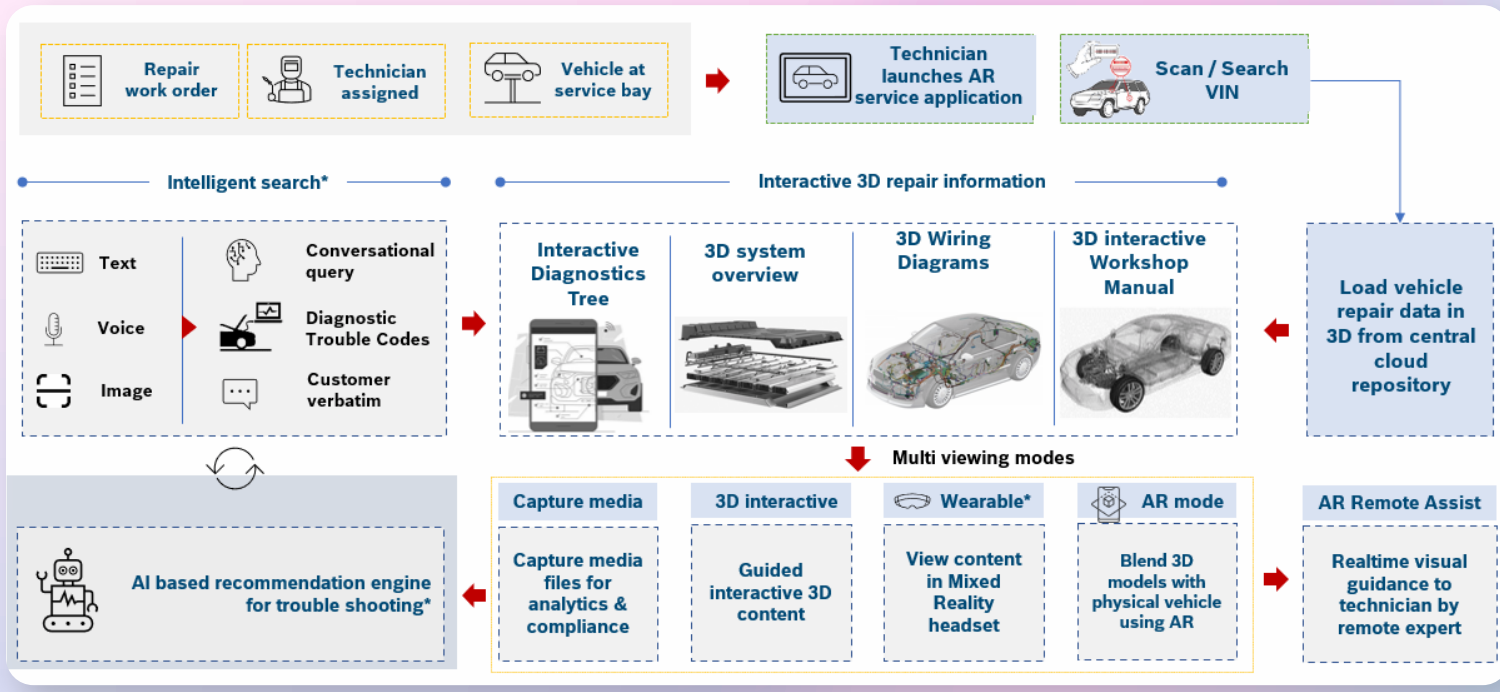


#### Enter AR Service co-pilot

Maximize workshop efficiency and accuracy in vehicle repair by delivering Right information in Right time at the Right place.

### Interactive application for vehicle diagnosis & repair

Purpose built enterprise grade solution to improve service technician efficiency & accuracy



\*functionality under development

### High level solution features

#### Guided Interactive repair instructions

Contextual step by step repair information using 3D

#### Interactive 3D Current Flow Diagrams

Explore wiring information incl. loom, connector, wire, pins...

#### Interactive Diagnostics Tree (iDT)

Step by step vehicle diagnostics procedure with documentation functionality

#### System overview in 3D

Functional description & exploded views with part info.

#### Augmented Reality Mode

Seamlessly blend 3D information onto physical vehicle

#### Rapid iDT authoring tool

No code self authoring tool to create & publish Diagnostics Tree

Intelligent search

AR remote Assist

Analytics & Dashboard

User management

In built ticketing system

CMS

Scalable Architecture

Enterprise grade

Device agnostic

### AR visual guidance system Connect | Collaborate | Resolve: Remotely

With AR remote assist, technicians can now receive remote assistance from experts across the globe. By wearing AR headset or using handheld, technicians can share their live view of a vehicle in service, enabling remote experts to guide them through complex repairs, offer advice, and even draw annotations in the technician's field of view. This collaborative approach saves time, reduces costly travel expenses, and enhances the overall quality of repairs.

#### Onsite technician



#### Remote expert



#### AR remote assistance solution

#### Purpose-built, enterprise-grade AR remote assist solution

Device agnostic solution

Compatible with Real Wear, HoloLens, Vuzix smart glass

Session summary with call history for traceability

Multi-user/Group calling

SaaS platform

Enterprise-grade solution

### Benefits for your workshop at a glance

Improve workshop efficiency.

Faster, better repairs

Improve customer satisfaction.

Reduce service training cost & time.

