



**CAR REPAIR 4.0**



# Car Repair 4.0

The goal of Car Repair 4.0 is to create a data space for secure and trustworthy exchange of industry-specific data and AI models. CR 4.0 strives to advance the digitalization of the medium-sized workshops, provide secure solutions to address the industry's shortage of skilled personnel and help to save resources - all these benefits are made possible by employing the innovative network of Gaia-X.

The background to this research approach is the fact that fault diagnosis in vehicles predominantly relies on proprietary diagnostic systems utilizing the On-Board Diagnostics (OBD) interface.

However, the error codes, known as Diagnostic Trouble Codes (DTC) merely indicate the parts recommended for replacement by the system, rather than referring to the actual cause of an error.

The project aims to use oscilloscopes to capture data within the engine compartment, enabling more comprehensive and accurate diagnosis, reducing unnecessary repairs, and promoting sustainable maintenance practices through the conservation of resources. This data-driven diagnostic system will also be made available for older vehicles, ensuring the integration into the everyday work of car repair shops. Industry-specific data and AI models will be provided on a data space for trusted exchange.

<b>Domain</b>	Mobility
<b>Start</b>	January 2022
<b>Term</b>	3 years
<b>Funding amount</b>	7.521.368,32 €

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**gaia-x**

 Hub Germany

## Partner

Autointern GmbH  
DEKRA Digital GmbH  
Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI)  
eco – Verband der Internetwirtschaft e.V.  
Hochschule Osnabrück  
Technische Hochschule Agricola der DTM-LB  
Vergölst GmbH

## Website

[www.car-repair40.org](http://www.car-repair40.org)

## Social Media

[LinkedIn](#), [Instagram](#), [YouTube](#)

## Further information:



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