

A project on human-machine  
interaction

# Maintenance with Mixed Reality



As a technology-driven provider of industrial services, our goal is to be prepared for the various technical refinements and challenges that affect your company's infrastructure. Thanks to our longstanding expertise and global network of experts, we are not just your reliable partner today but also your innovative partner for tomorrow!

## Benefits for the maintenance technicians of the future

- **Technical support via live video**
- **Reduced travel costs**
- **Data overlay in the technician's field of vision**
- **Maximum scope for action**
- **Transfer of data in real time**
- **Mobile, wherever and whenever required**
- **Improved transparency and efficiency**

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## Smart solutions for maintenance

In this era of digitalization, developments in data visualization are increasingly gaining momentum.

We are passionate about trying out new technologies in collaboration with our customers and partners and putting promising solutions into practice. In this conjunction, we also work hand in hand with universities and research establishments on innovative projects. The project **“Maintenance Assistance Application (MA<sup>2</sup>)”** with the Hochschule der Medien Stuttgart, for example, was initiated to generate practical applications for the use of mixed reality in maintenance.

## Mixed reality makes maintenance more efficient and practical

In the field of maintenance in particular, the use of data glasses (smart glasses) is becoming increasingly important. Smart glasses to assist with certain maintenance activities are not only technically feasible but already possible today.

The overlapping of virtual components and real-life reenvironment allows a wide range of uses in the manufacturing sphere. Thanks to flexible information acquisition and management, the work performed becomes more accurate, efficient, interactive and simple.

Our objective is to use this technology in industrial maintenance, inspection and repairs to ensure the maximum possible quality and efficiency of the service provided by our specialist personnel.

## Benefits at a glance

- Access to the technical expertise of our worldwide network of experts in specific troubleshooting scenarios on site
- Specific identification of components in the field of view of the technician via live video
- Reduction of travel costs and the amount of work necessary to rectify the problem
- Combination of bi-directional communication options and maximum scope for action thanks to hands-free working
- Data overlay in the field of vision of the technician's smart glasses on site
- Blend of physical and digital information for more efficient execution of technical tasks - mobile and wherever and whenever needed
- Greater transparency by linking the smart glasses to the CAFM system for data synchronization



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The logo for Leadec, featuring the word "leadec" in a bold, blue, lowercase sans-serif font. The letter "a" is stylized with a blue and orange gradient. The letter "e" is also stylized with a blue and orange gradient.