

# Agenda

WHEN

08:30 - 08:55

08:55 - 09:15

09:15 - 09:50

09:50 - 10:25

10:25 - 11:00

11:00 - 11:35

11:35 - 12:10

12:10 - 12:45

12:45 - 14:15

14:15 - 16:00

WHAT

Welcome & Site Presentation

**Preparation for Production** 

**SMD** 

**USV (incl. Al Projects / Funding)** 

**Front Cam** 

IP Next (incl. Scalable Standard Cells)

Lidar

**Logistics (incl. Smart Electronic Storage)** 

Lunch / Q&A Session

WHO

**Markus Hein** 

All

**Tobias Cislaghi** 

Klaus-Stefan Lehner

**Gregor Wichary** 

Jochen Vallon

**Tobias Vogel** 

**Carina Ritter** 

All

**WHERE** 

Meeting Room "Nürburgring"

**Meeting Room "Nürburgring"** 

Genba

Genba

Genba

Genba

Genba

Genba

Meeting Room "Nürburgring"

Transfer from Wemding to Airport Munich

#### **AUTONOMOUS DRIVING LEVEL ILLUSTRATIONS vs. SYSTEM COMPLEXITY**





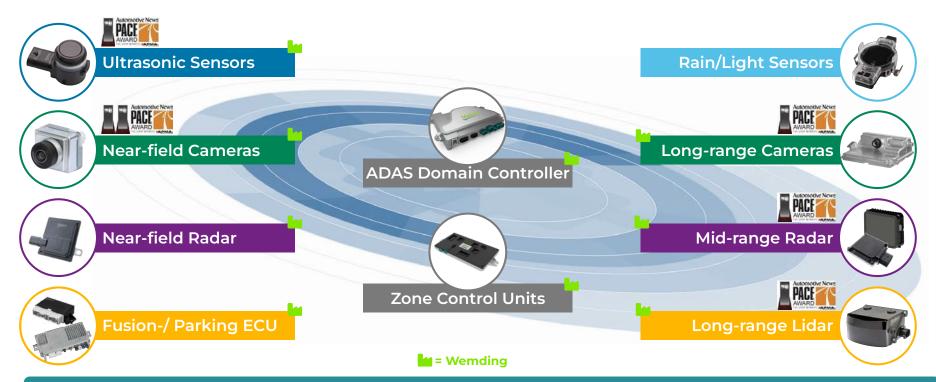








# TECHNOLOGY FOR RANGING, VIEWING AND COMPUTER VISION Product Family Strategy - Globale Process Standard



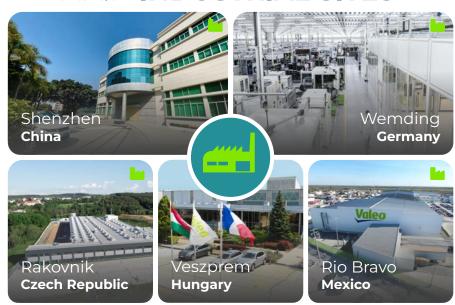
Covering 360° around the vehicle from Near-field to Long-range

## A WORLDWIDE PRESENCE\*

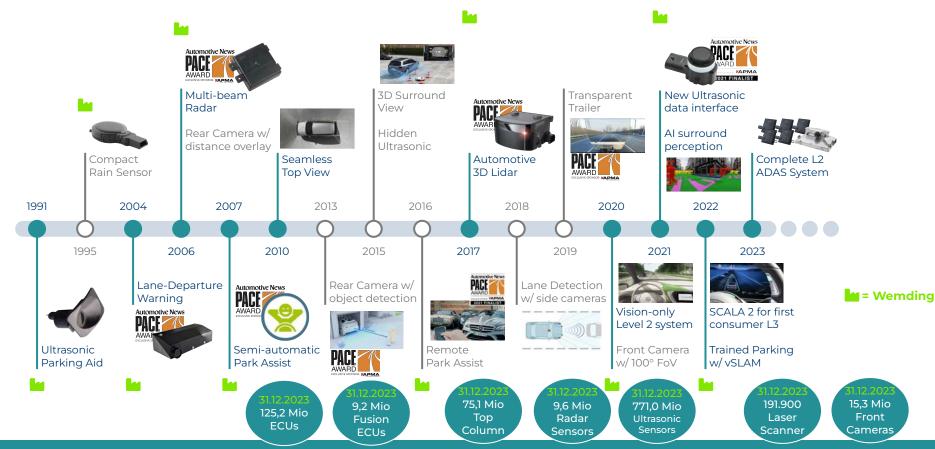
# MAIN R&D SITES



# MAIN INDUSTRIAL SITES



# A HISTORY OF INNOVATION - FIRST to PRODUCTION



# **Mother-Daughter Know-How Transmission**

WEMDING - CDV Industrial Competence Center for Global Know-How Transmission



# **Cooperation with research institutes**





# **Robotic Density per Employee (Automotive)**



# **Intelligent LEAN - Digitization**



## **Valeo Suite**







e-Workstation

e-OCDM



**Quick Response** 

**Action Plan** 



### **Traceability**

110 SMD & **Production Lines** connected with & without interlocking

Recording of single components & Process parameters





#### **Production** Control

**Production Line** Interfacing and Orchestrating system

real time production declaration system fully automatic and fully integrated with the production lines

#### e-KOSU

**Automate** recording of Line Efficiency

Real Time Data Gathering Tracking on hourly base

Acquisition and monitoring of all production relevant data for all production lines

#### **E-Workstation**

Document management system for work-related documents

Verification systems for flexible use of employees (training units for emplovees)

#### E-QCDM

Display of all productionrelevant data on the production lines (KPIs)

#### Quality-critical and production-critica I data accumulation

Recording and correction of machine malfunctions

Source for long term learning and improvement

#### **Truck Time Table**

digitalisation of the Truck Time Table monitor fully interfaced with SAP

Valeo Standard Tool Set - developed in Wemding

# AI @ Production - Research Projects

#### **ADeUSPro**

<u>A</u>nomaly <u>D</u>etection in <u>U</u>ltrasonic <u>S</u>ensor <u>Pro</u>ductior

- Research in AI infrastructure
- Predictive Quality in Automotive Ultrasonic Sensor Production









**Ancud** 



#### **PALIM**

Performance Accelerated Learning for Intelligent Manufacturing

- Evaluation of SW Solutions for real-time data-gathering
- Predictive Maintenance in automotive Front Camera systems











Bavarian Ministry of Economic Affairs, Regional Development and Energy

#### AI4CO2Opt

AI to reduce CO<sub>2</sub> emissions through energy optimization of production.

- Research in energy monitoring systems
- Prediction of energy consumption with AI











Bavarian Ministry of Economic Affairs, Regional Development and Energy

#### **FEDIMA**

Federated Interpretable Modular Machine Learning for Manufacturing

- Train AI model on distributed data without centralising the data
- Research in the area of explainable AI (XAI) and data privacy in AI











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VALEO RESERVED October 2024 |

## **ESD-CLOTHING**

#### You will need:

- ESD-Jacket
- ESD heel strap
- Hair net
- The yellow visitors badge
- Your name plate







## **PRODUCTION TOUR**

3 GROUPS









SMART TECHNOLOGY FOR SMARTER MOBILITY