



EverCore ISI AutoTech & AI Forum

Antoine Lafay
Research & Innovation Director, Driving Assistance

VALEO STRATEGY ALIGNED WITH ADAS AND ELECTRIFICATION ACCELERATIONS



#1 in ADAS

Comfort & Driving Assistance

Order intake
in ADAS

3X

2022 ADAS OEM sales



vehicles equipped with our
Advanced Driver-Assistance solutions



#1 in Electrification

Powertrain + Thermal

Order intake related
to high-voltage EV

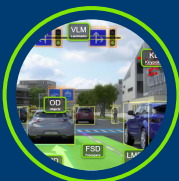
2/3

of 2022 Powertrain + Thermal order intake



vehicles equipped with our
Thermal & Electric solutions

VALEO LEADER IN ADAS WITH THE FULL STACK COMBINING SENSORS, CONTROL UNITS AND SOFTWARE

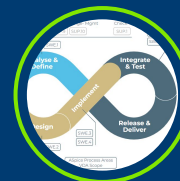


Best in Class Software Parking & Driving

30 years as leader in Parking
Driving Policy to L2+

End to End Integration Partner

SW and System Integration
System Validation



Market Leader in Camera Technology

100+ million cameras shipped
Strong CV expertise



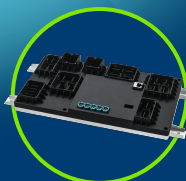
Superior Ultrasonic Sensor Performance

20+ million systems per year
AI enabling data interface



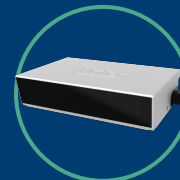
ADAS Control Units for all Segments

From entry SVS to HPC
and Zone Controllers



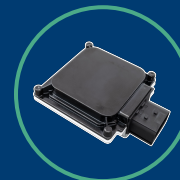
Automotive Grade Lidar Solutions

~12.5 million points/second
Enabling Level 3 @ 130kph



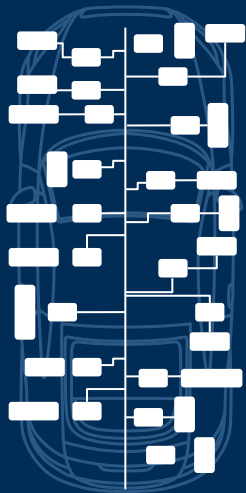
Complete Radar Solution Portfolio

Offering Corner, Front and
HD Radar technology



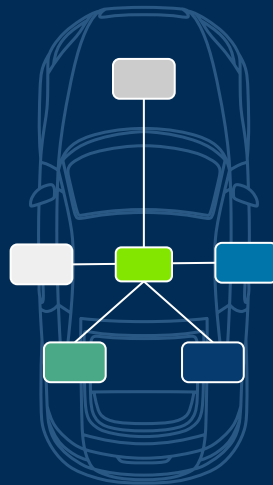
SOFTWARE DEFINED VEHICLE FROM DISTRIBUTED TO CENTRALIZED ARCHITECTURE

TODAY



DISTRIBUTED

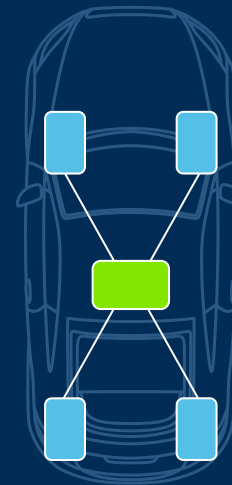
2023-2028



CENTRALIZED

DOMAINS

2028+



ZONAL

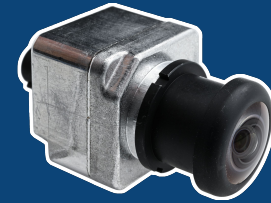
LEADING TO COMPONENT STANDARDIZATION...

FROM



**SMART
COMPONENTS**

TO



SATELLITE
COMPONENTS

... POWERFUL COMPUTING DEVICES / ZONAL AGGREGATORS ...

CENTRAL CONTROLLER

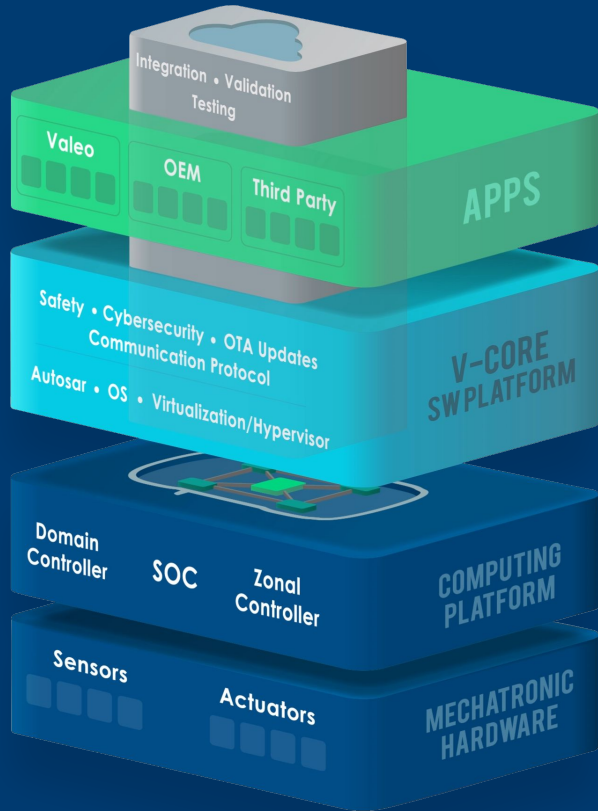


ZONAL CONTROLLER



TOP CROSS COMPETENCIES AND TECHNOLOGIES
IN ELECTRONICS AND THERMAL MANAGEMENT
LEADING TO A UNIQUE PRODUCT OFFERING

... AND SOFTWARE AS A PRODUCT



Full ADAS Software Stack including core software, tool chain, data management and system validation.

APPLICATIONS



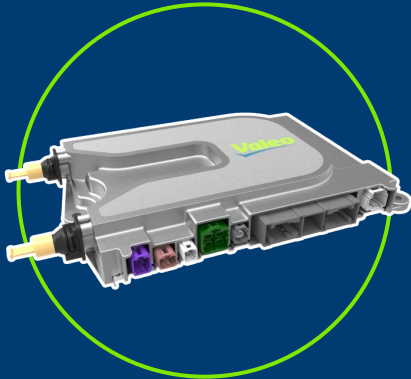
AUTOMATED DRIVING SYSTEM SUPPLIER

VALEO FULL STACK FOR L2+ VEHICLE AUTOMATION



SEVERAL CUSTOMERS PROGRAMS ON-GOING

VALEO & BMW TO JOINTLY DEVELOP THE FIRST L4 PARKING EXPERIENCE IN THE MARKET



**Automated Valet Parking
+ Trained Parking**

SOP 2026-2028

12x  | 4x 
+ SOFTWARE STACK

Embedded Arch. & Integration

Level 4 Dependability

Safety Cocoon

Map Aggregation

AVP Services

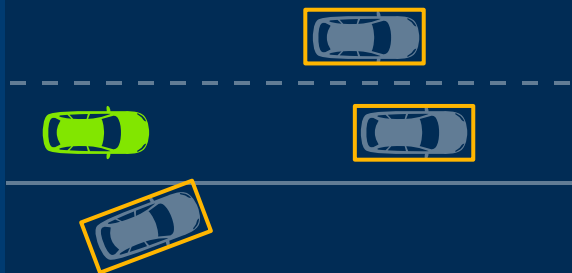
Test & Validation

Deployment

ARTIFICIAL INTELLIGENCE IS MANDATORY TO ...

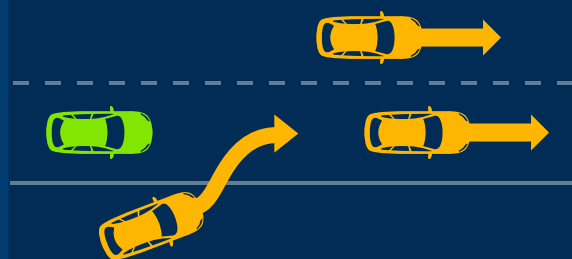
UNDERSTAND

where am I?
what's around me?



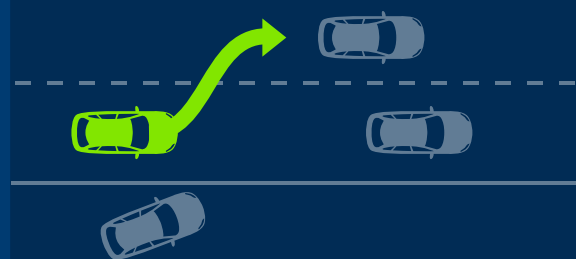
PREDICT

what would happen next?



DECIDE

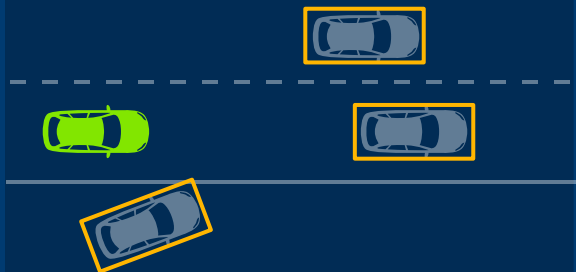
what should I do?



ARTIFICIAL INTELLIGENCE IS MANDATORY TO ...

UNDERSTAND

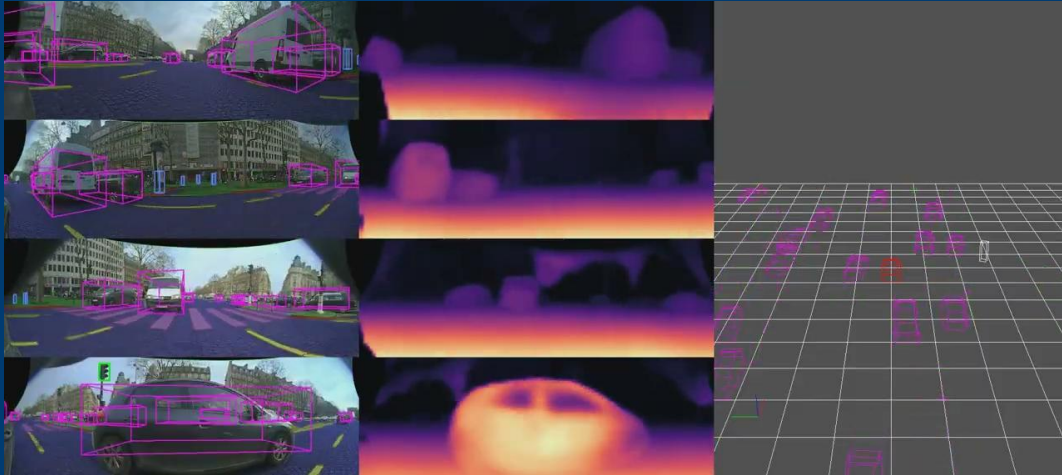
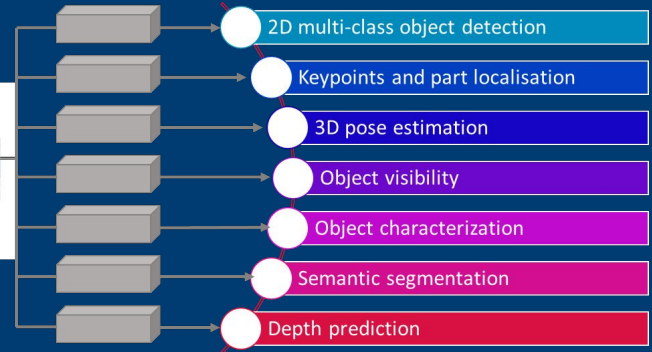
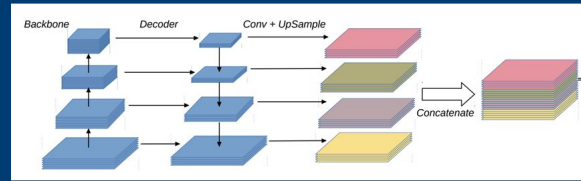
where am I?
what's around me?



- Robustness and accuracy
- Scene complexity and variability
- The long tail

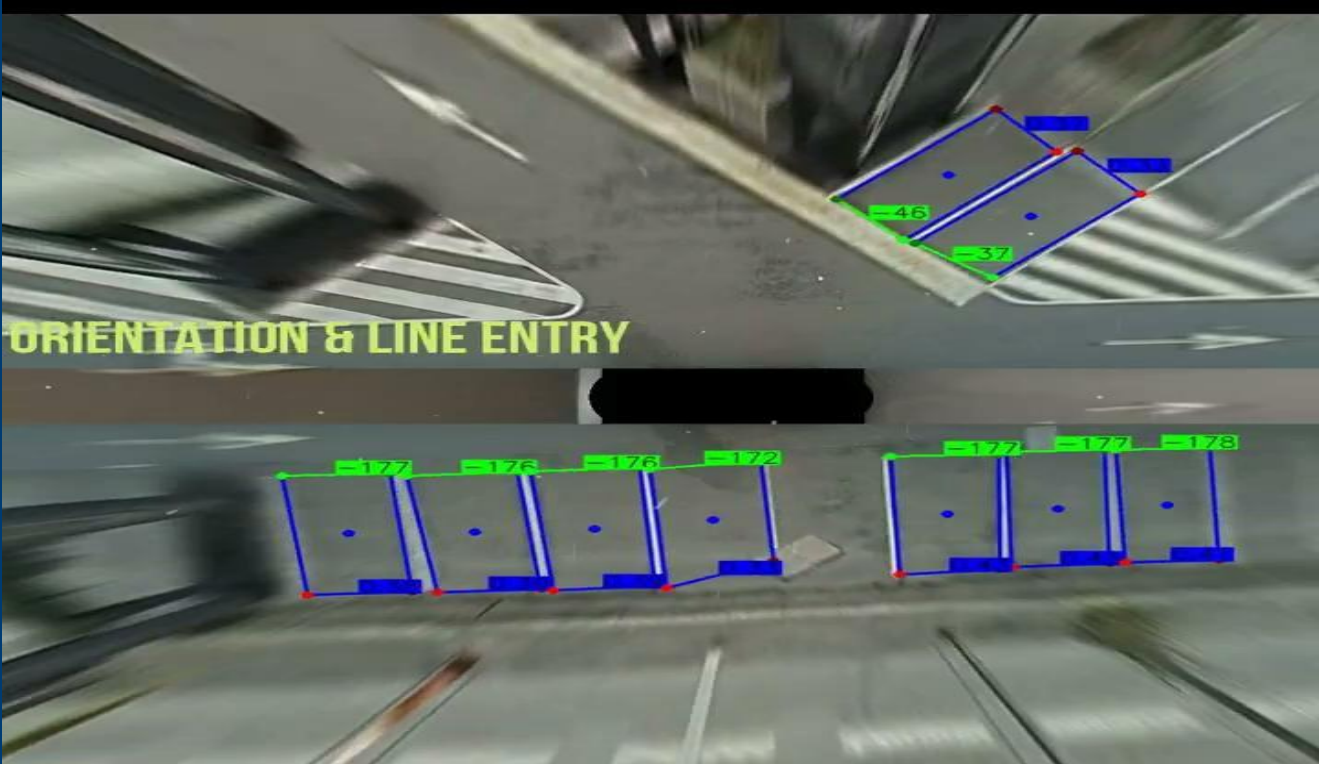
AI Multi-task Perception applied to Surround View Cameras

360° detection without blind spots



AI Holistic Slot detection

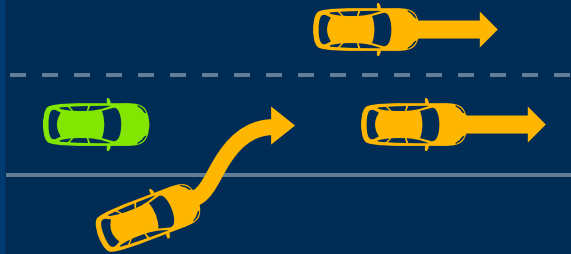
Improving Parking with better scene understanding



3 KEY DECISION-MAKING CHALLENGES

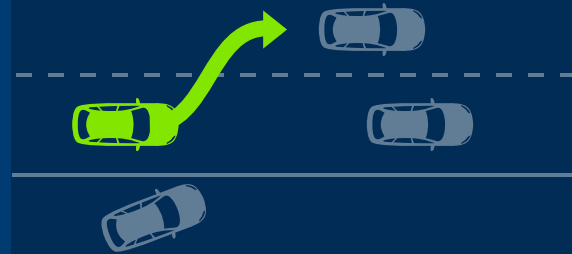
PREDICT

what would happen next?



DECIDE

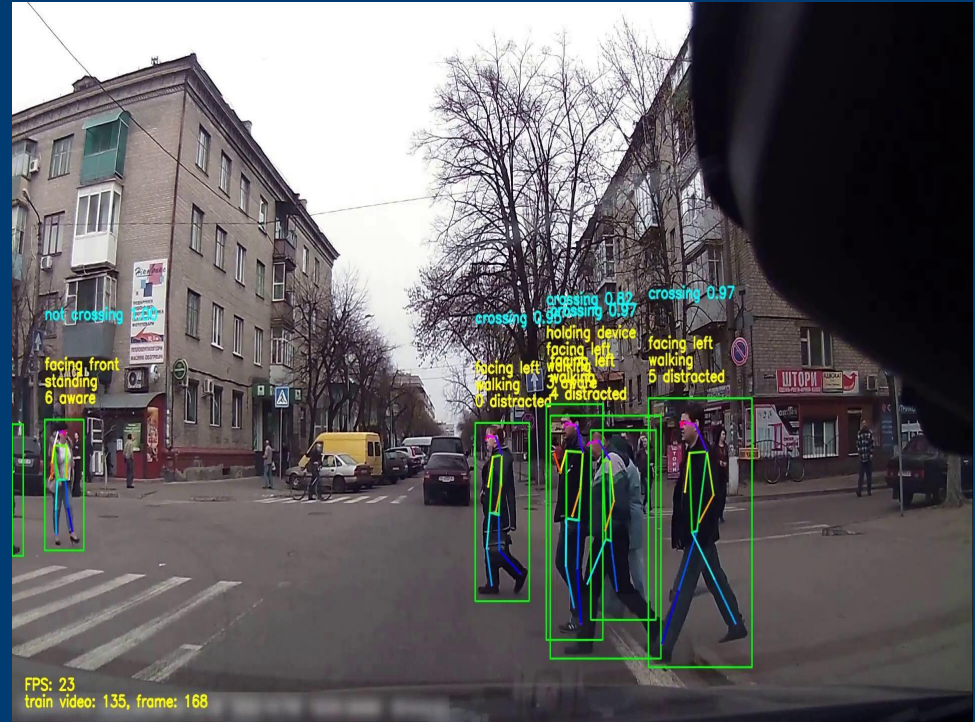
what should I do?



- Complexity of multi-actors interaction
- Scene Handling safely unexpected situations
- Uncertain future - Decision affect the environment

Move.Predict: predicting pedestrians intent is key for safety

Predicting what will happen next



PLOP: Probabilistic polynomial Objects trajectory Planning

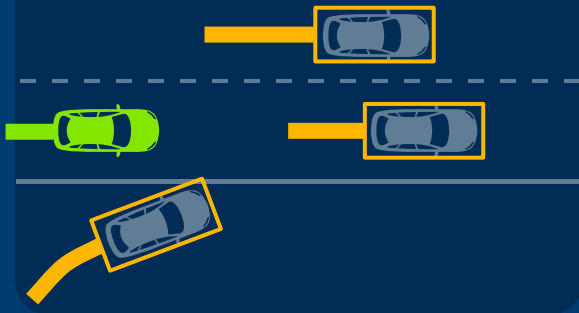
Predicting what will happen next

Inputs

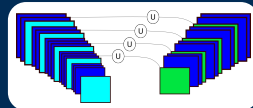
raw data



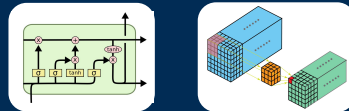
previous vehicles' positions



end-to-end trajectory prediction

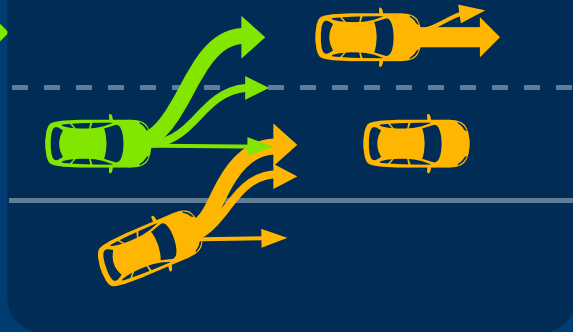


PLOP



Outputs

multiple feasible future trajectories for both the ego-vehicle and its neighbors



Drive4U® demonstrates how Valeo integrates these bricks into an Autonomous Vehicle in Urban Areas





KEY FIGURES



20.0BN

TOTAL SALES



109,900

EMPLOYEES



29

COUNTRIES



183

PRODUCTION SITES



65

R&D CENTERS



18

DISTRIBUTION
PLATFORMS

All figures at end 2022

VALEO'S STRATEGY FROM MOBILITY REVOLUTION TO VALUE CREATION



LIGHTING
EVERYWHERE



ADAS
ACCELERATION



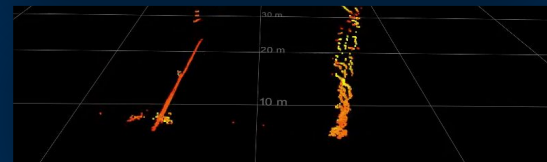
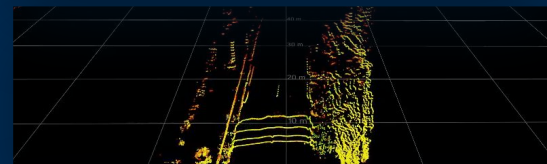
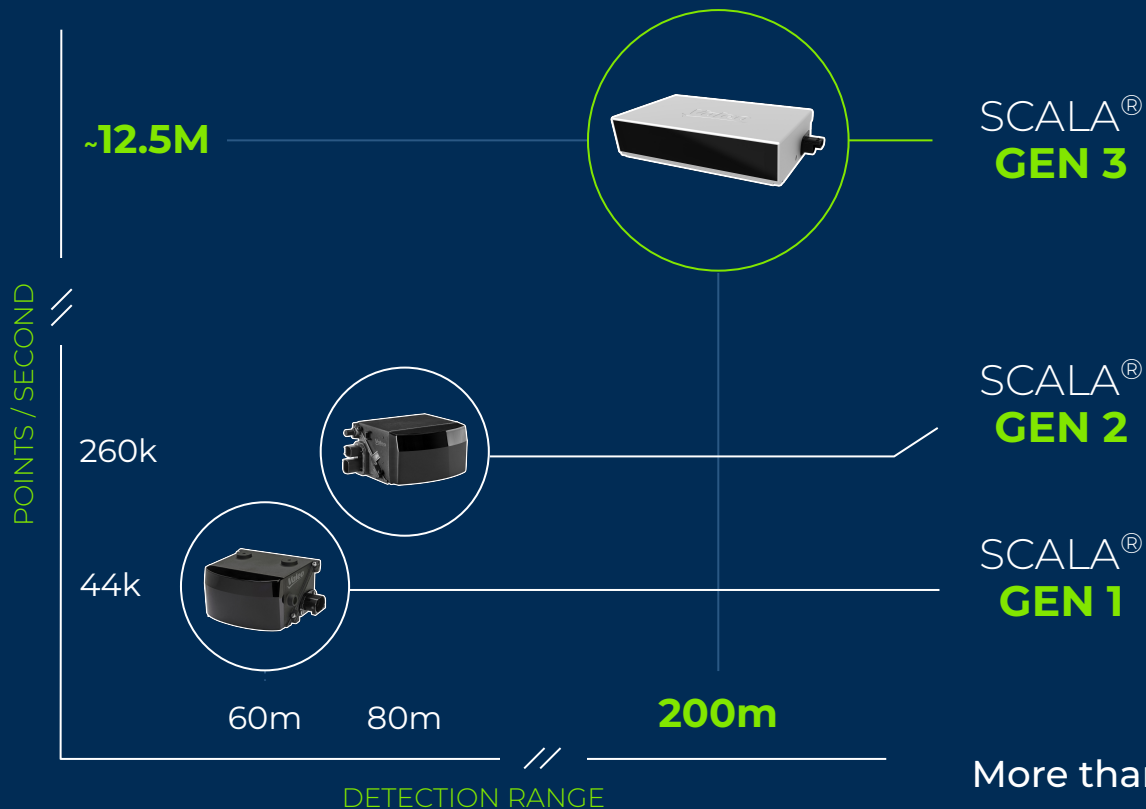
ELECTRIFICATION
ACCELERATION



INTERIOR EXPERIENCE
REINVENTION

VALEO SCALA 3

Long Range camera-like LiDAR



More than 1 B\$ Order Intake already achieved

The Valeo logo is positioned at the top center of the image. It features the word "Valeo" in a white, sans-serif font with a stylized underline that curves under the letters. The background of the entire image is a grayscale photograph of a factory floor with several workers in white lab coats focused on their tasks.

Valeo

100 YEARS

A CENTURY OF INNOVATION
TO BUILD CLEANER, SAFER AND SMARTER MOBILITY