



E-Mobility Strategy of Volkswagen Saxony

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The following presentations as well as remarks/comments and explanations in this context contain forward-looking statements on the business development of the Volkswagen Group. These statements are based on assumptions relating to the development of the economic, political and legal environment in individual countries, economic regions and markets, and in particular for the automotive industry, which we have made on the basis of the information available to us and which we consider to be realistic at the time of going to press. The estimates given entail a degree of risk, and actual developments may differ from those forecast. Any changes in significant parameters relating to our key sales markets, or any significant shifts in exchange rates or commodities relevant to the Volkswagen Group or deviations in the actual effects of the Covid-19 pandemic from the scenario presented will have a corresponding effect on the development of our business. In addition, there may be departures from our expected business development if the assessments of the factors influencing value enhancement and of risks and opportunities presented develop in a way other than we are currently expecting, or if additional risks and opportunities or other factors emerge that affect the development of our business.

We do not update forward-looking statements retrospectively. Such statements are valid on the date of publication and can be superseded.

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Our Ambition: Taking responsibility for climate change and society



Global Ramp up of our ID.family based on our dedicated platform MEB

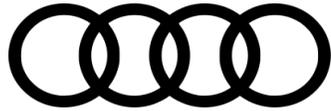


2020

2025



Starting 2021 a broad MEB based portfolio is available



Zwickau products



ID.3



ID.4



ID.5



Q4 e-tron & Sportback



Enyaq

Zwickau products

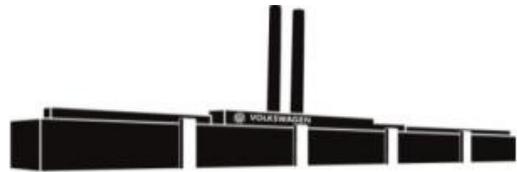


Born



ID.6 

Volkswagen Sachsen GmbH: Start of VW Group MEB rollout



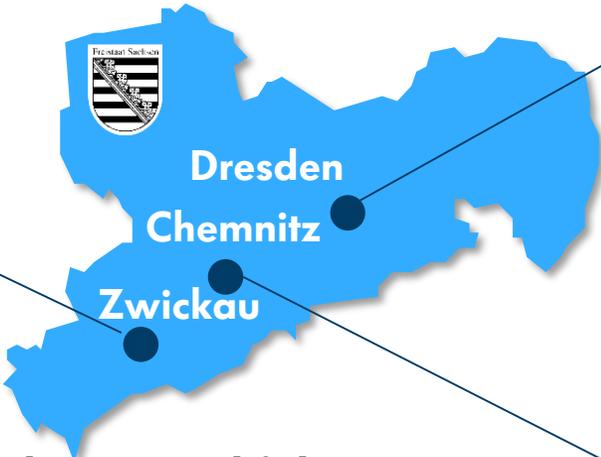
Zwickau

 headquarters

 ~330,000 vehicles per year

 up to 10,000 car bodies for luxury vehicles

 > 8,000 employees



Dresden



 up to 16,000 vehicles per year

 ~ 380 employees



Chemnitz



 ~ 860,000 engines per year

 > 1,700 employees

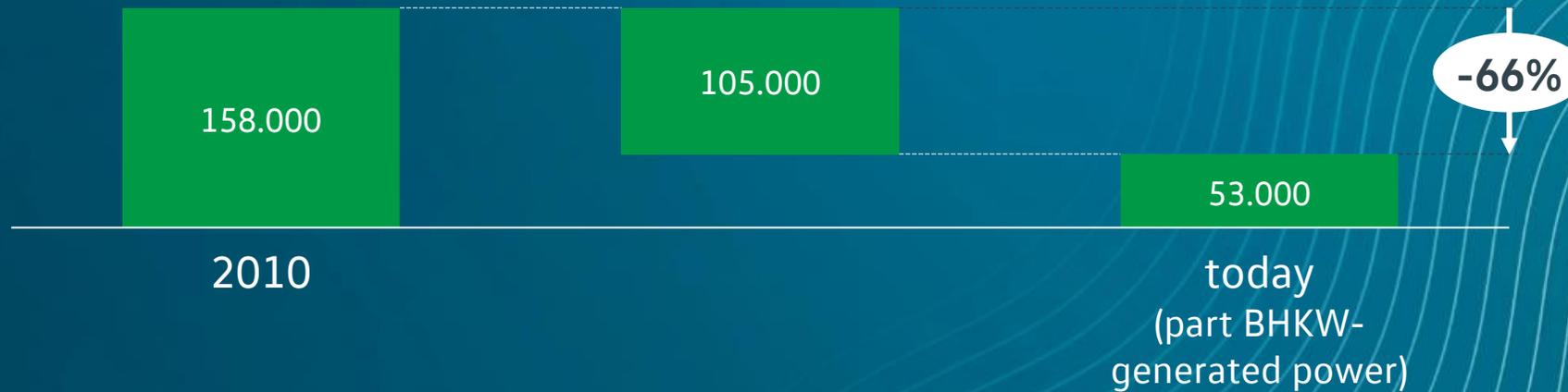
Reduction of CO2 through the purchase of renewable energy



The Zwickau vehicle plant obtains 100% renewable energy from hydropower. A significant contribution to the reduction of CO2.



CO2 emissions per year in tons



Our roadmap to a dedicated BEV factory



 **100% MEB** 

Launch excellence

6 models, 20 launch levels
2.000 pre-series vehicles



Qualification

Products & processes
of the future



Production and logistics 4.0

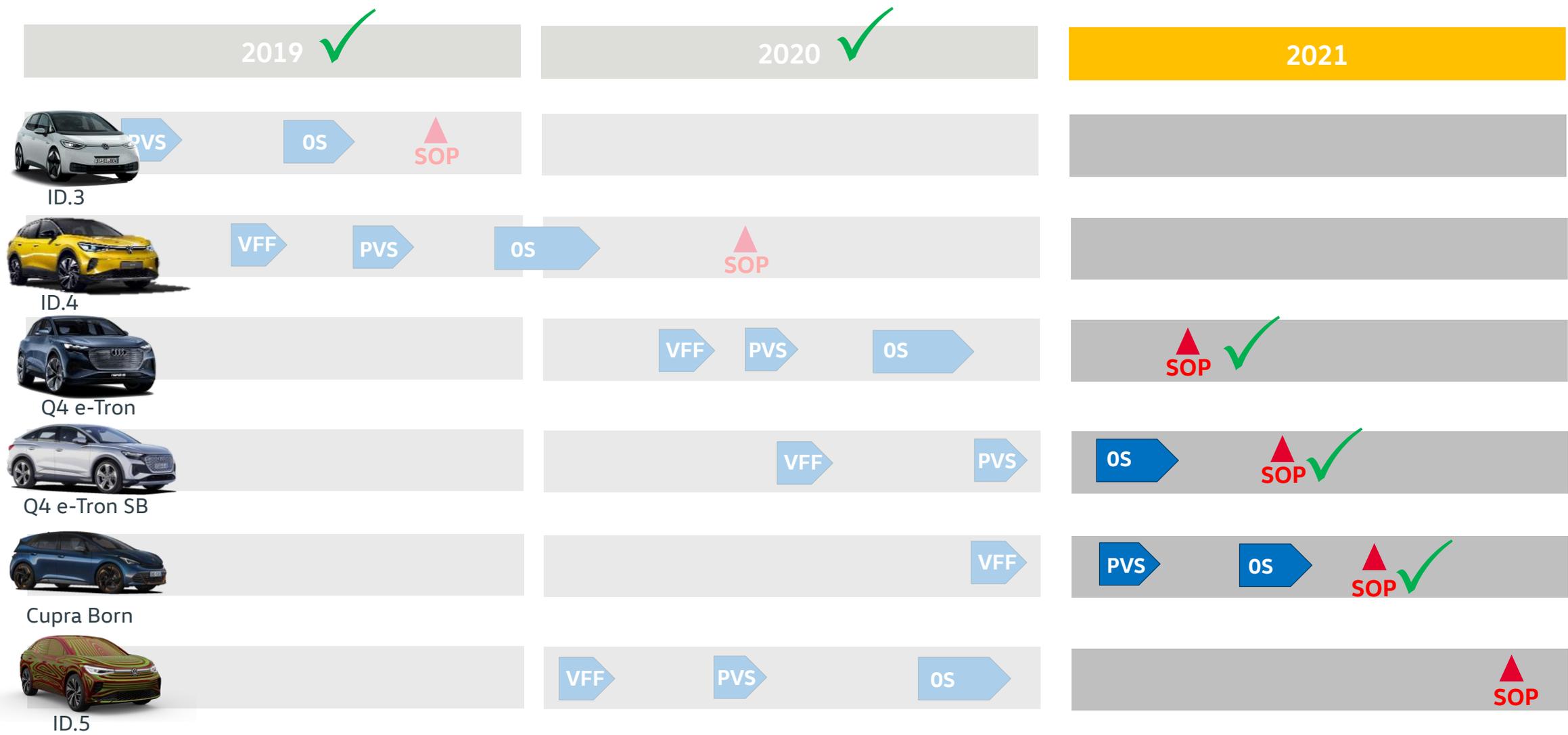
Automation and digitization
in the production processes

Structural changes

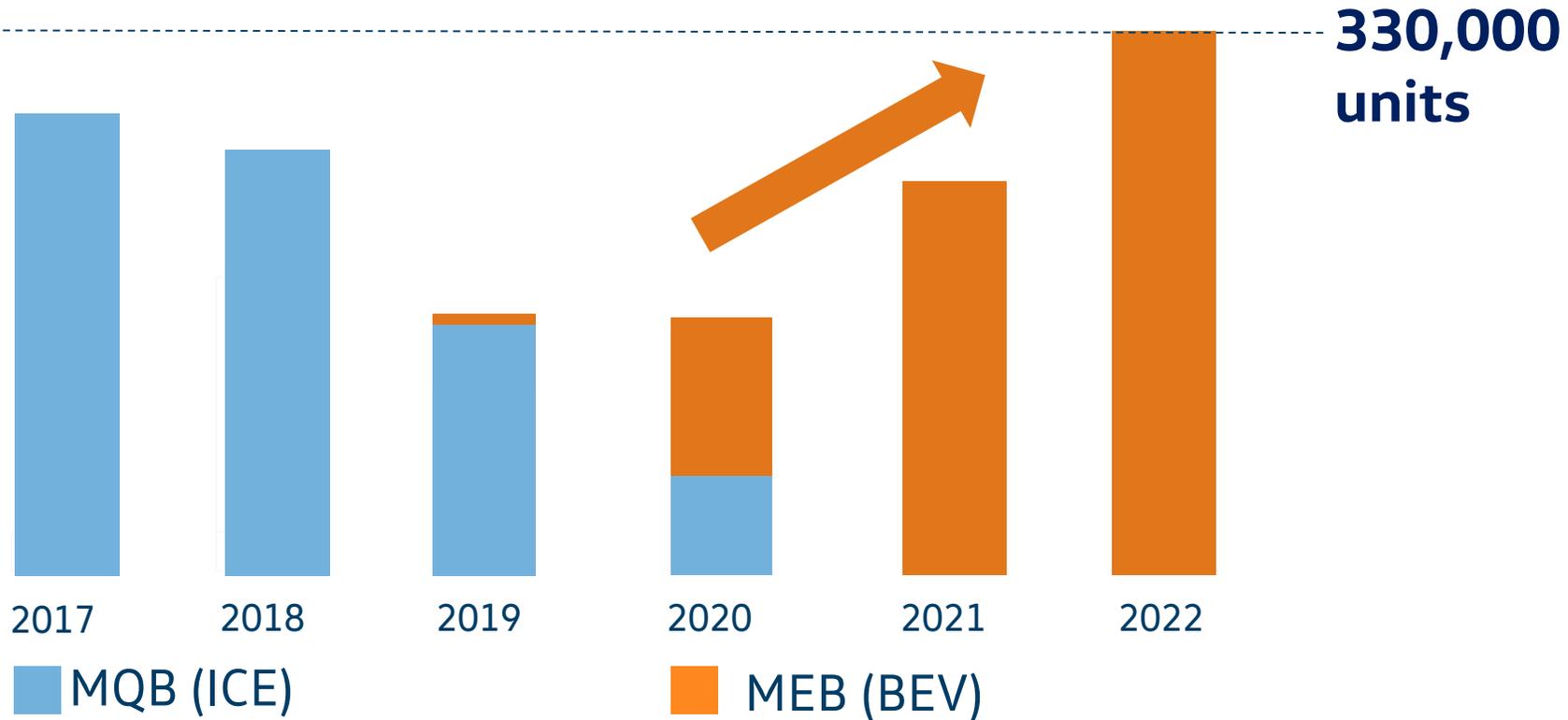
„Brownfield“: wide extensions,
annexes and reconstructions



Zwickau plant: 5 of 6 MEB models already launched successfully



Transformation of Zwickau plant from ICE to BEV in record time & ongoing production



2018: Original Zwickau factory ICE layout



 ICE powertrain factory



Golf



Golf Variant

 Luxury class factory



Bentayga

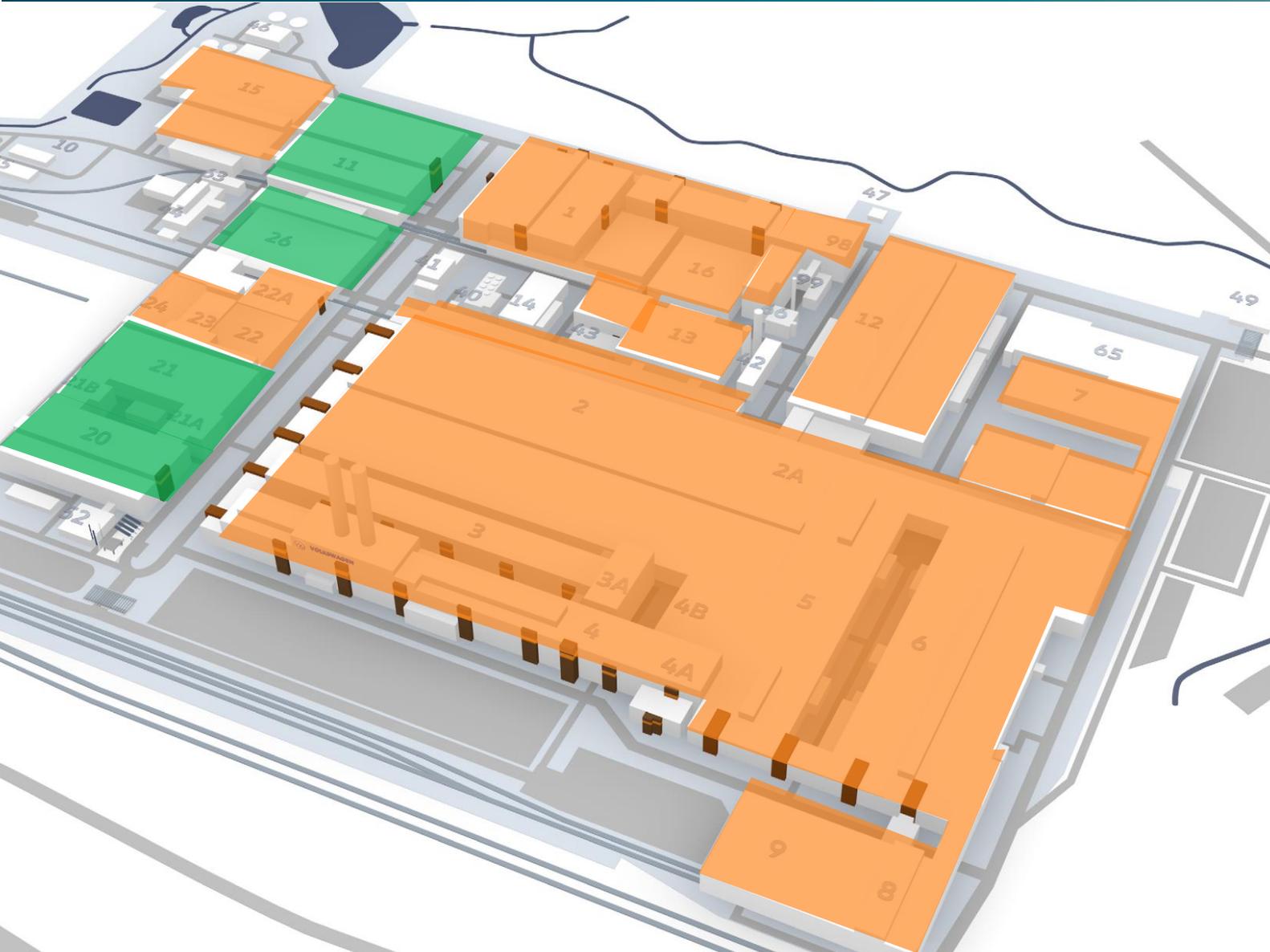


URUS



2021/22: Zwickau factory after MEB transformation

85% of the plant modified



 **Multibrand BEV factory**



VW ID.3



VW ID. 4



Cupra Born



Audi Q4 (Sportback) e-tron



CUPRA



 **Luxury class factory**



Bentayga



URUS



BENTLEY

Zwickau plant Transformation nearly complete



Logistic area 15
autom. battery handling
completed

Factory structure
Area expansions
completed

Quality assurance
Test centre hall 20
completed

Bodywork FL2*
Scaffolding MEB H.12,2A,2
completed

Paint Shop
Roof blacking line MEB
completed

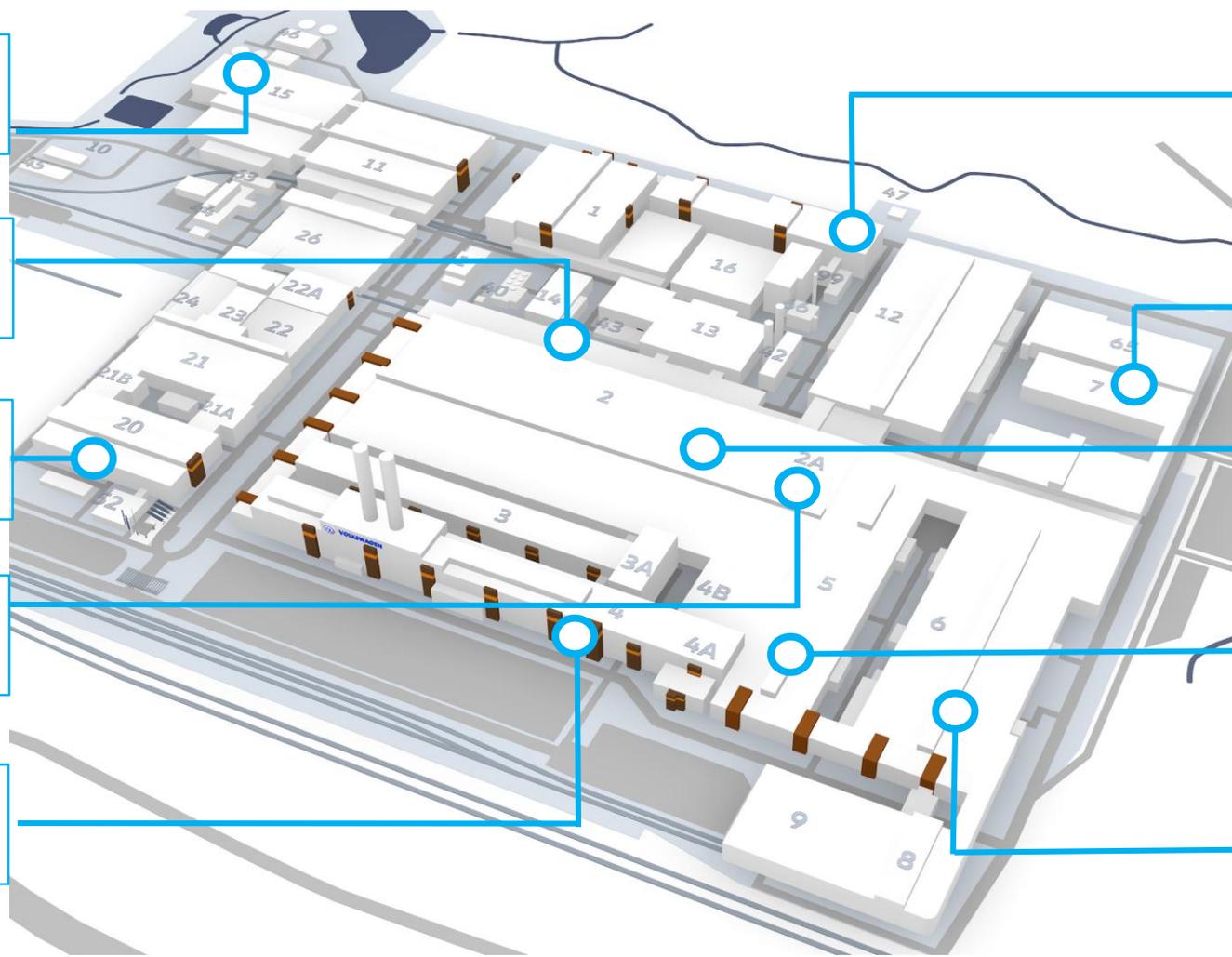
Press plant
New massive press
completed

Logistic area 7
New construction
completed

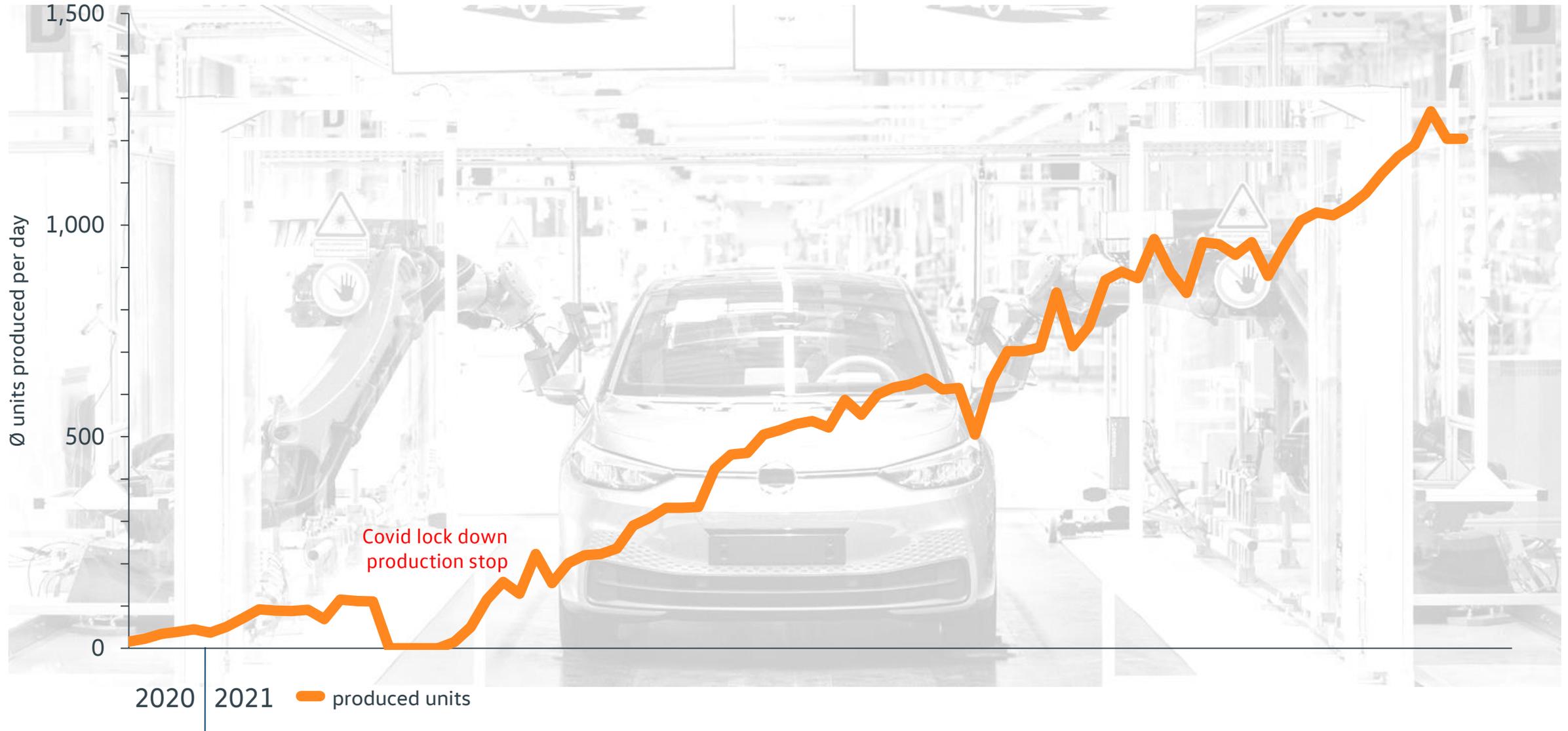
Bodywork FL1*
Scaffolding MEB hall 2
in run-up

Assembly FL1*
Conversion of hall 5 to MEB
completed

Assembly FL2*
Conversion of hall 6 to MEB
completed / in run-up

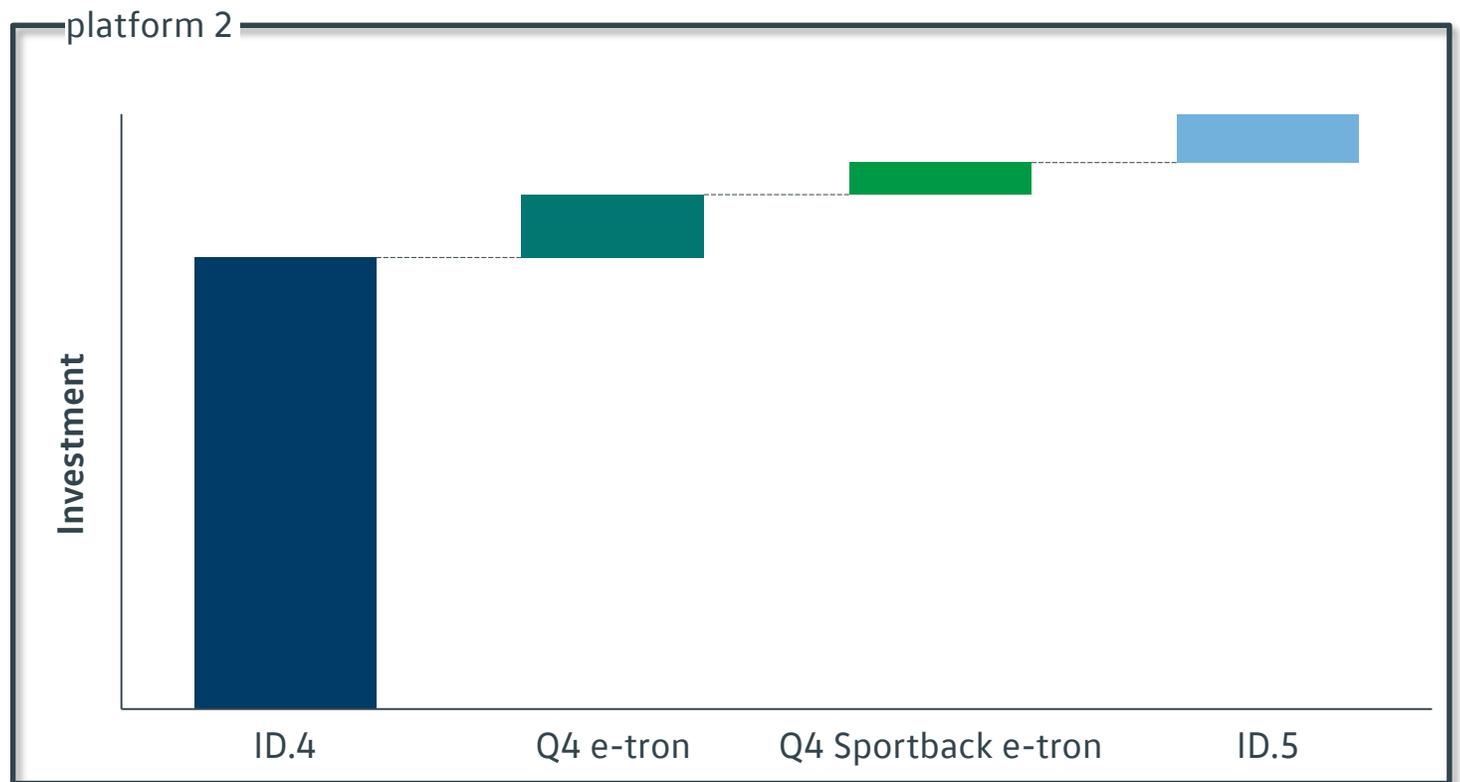
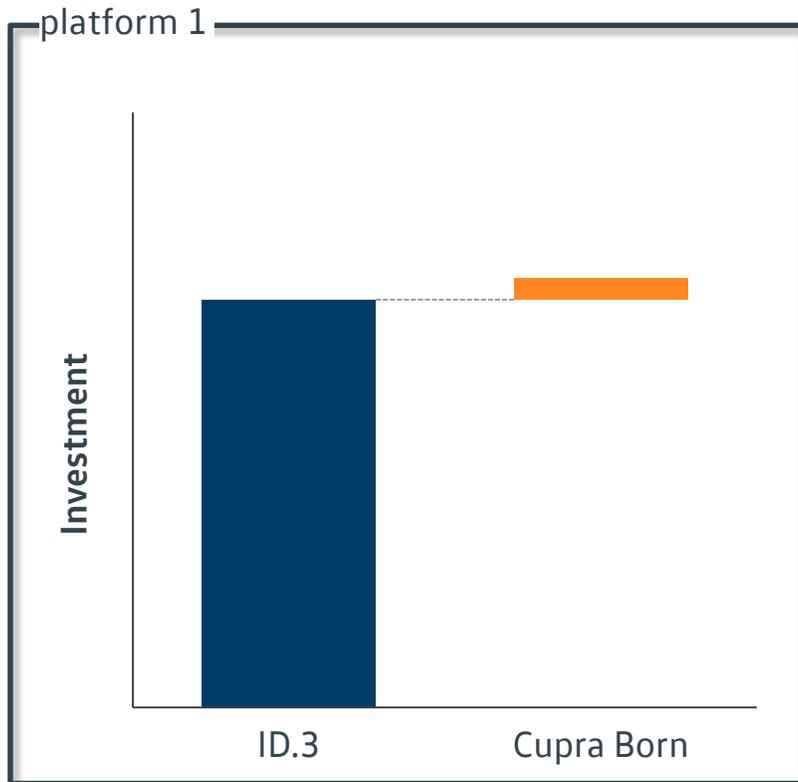


MEB production output plant Zwickau is rising continually



Zwickau plant: Investment more than €1 billion

Subsequent Group models benefit from original investment



Increased automation of vehicle production leading to higher efficiency



increased productivity

reduced factory costs

improved ergonomics



Plant section	MQB	MEB
Body shop	85%	89%
Paint shop	75%	75%
Assembly	17%	28%

Automation: Examples in our MEB production



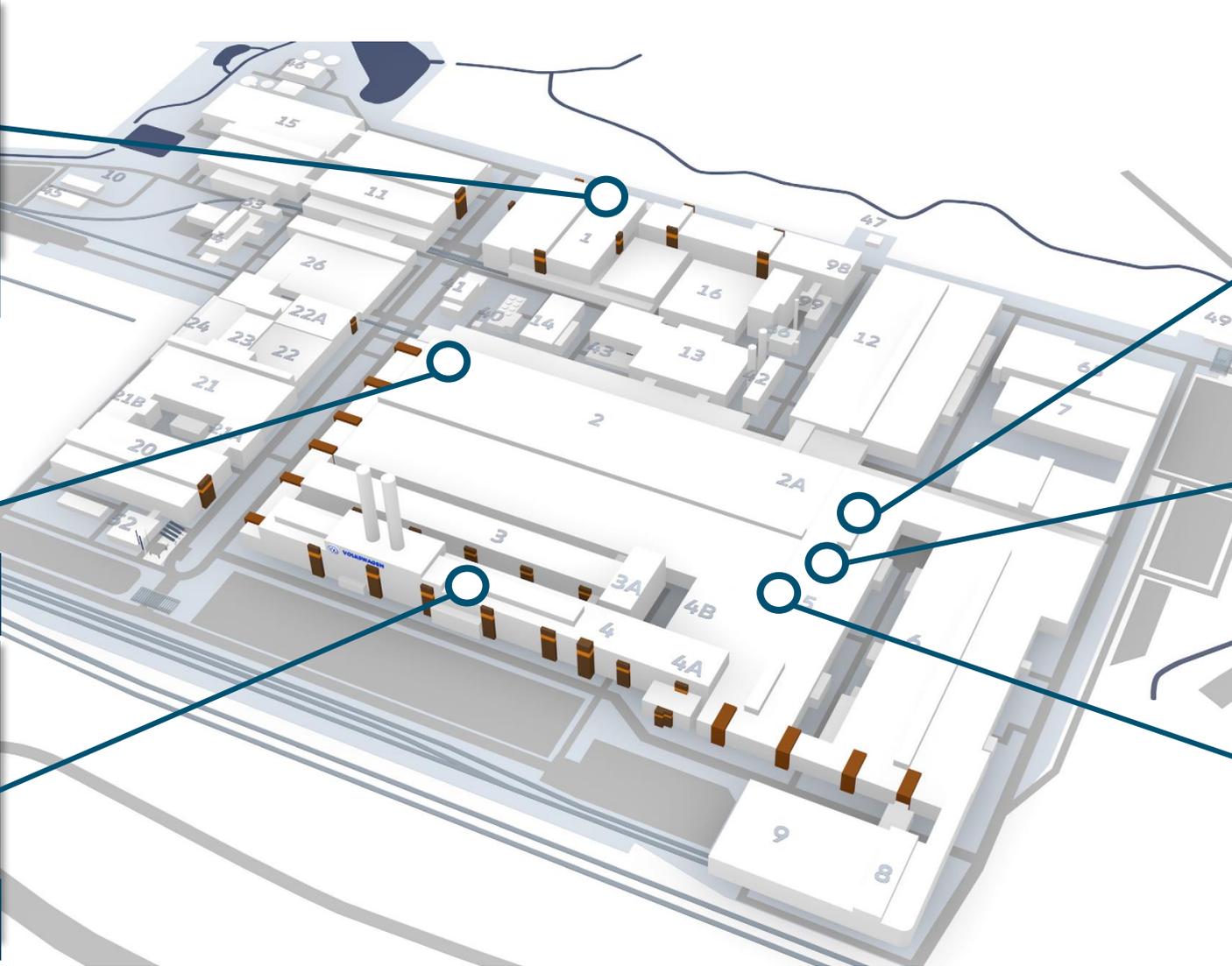
Press Plant
automated destacking



Body Construction
Automated part selection



Paint Shop
fault detection



Assembly Dashboard



Assembly Automated sealing

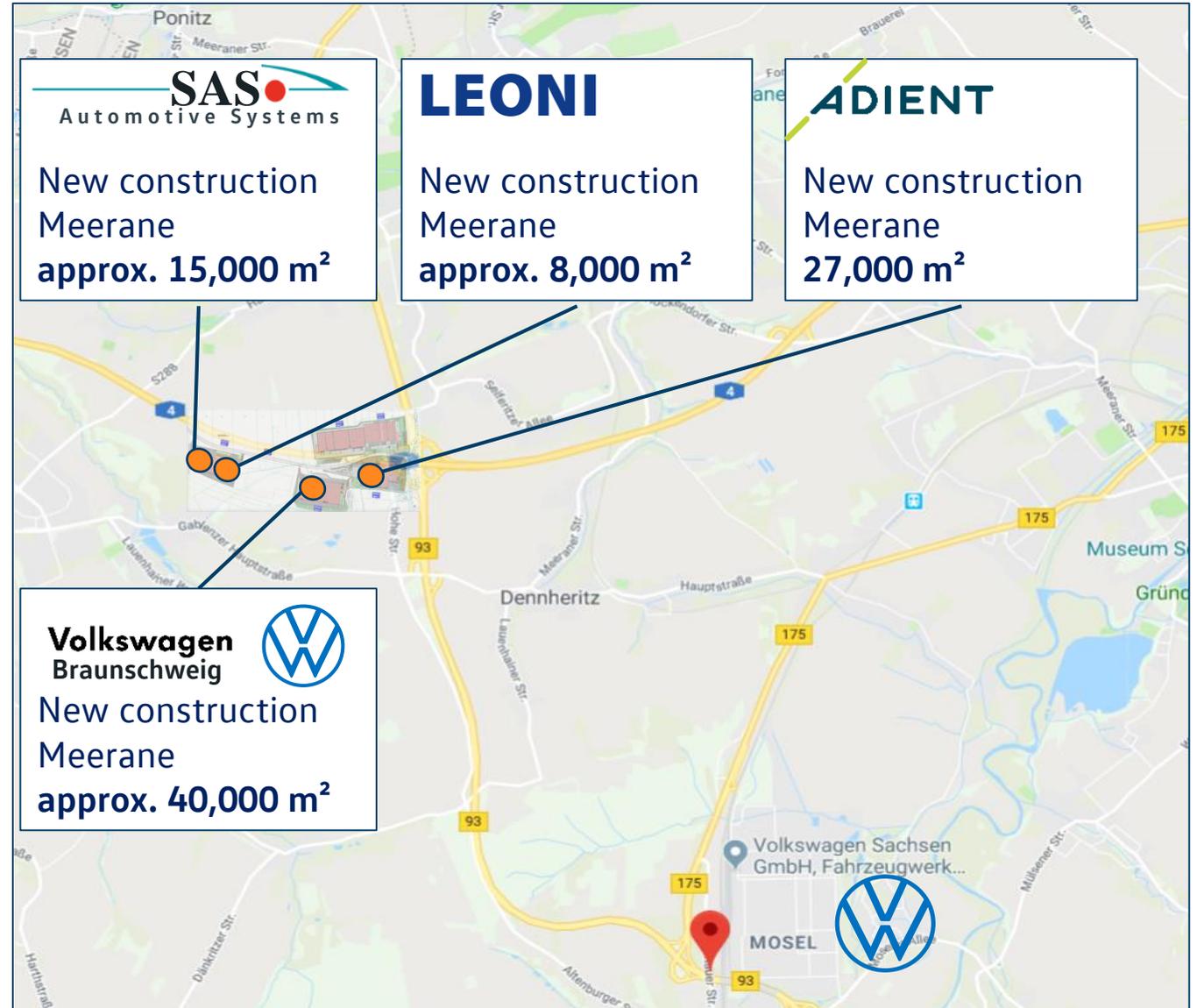


Assembly automated windshield insertation

Key suppliers remained deeply involved for MEB production



- 4 new production facilities were built by our suppliers close to the plant with investments of more than €130 million
- Simplified production, e.g. elimination of exhaust system & fuel tank from our suppliers





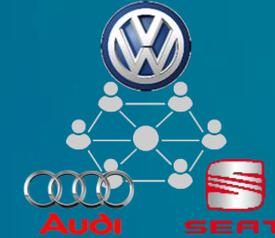
Our employees: The transformation to e-mobility is accompanied by an extensive qualification program



- **Largest "training camp" at Volkswagen**
 - E-Mobility training center: 3,000 employees
 - High-voltage license: 1,500 employees
- **Contents: Fundamentals of e-mobility, handling of high voltage MEB production.**

VW Zwickau plant as best practice

Extensive global VW management training



Coordination between Group brands and headquarters



Developing the Group's launch know-how



Agile working

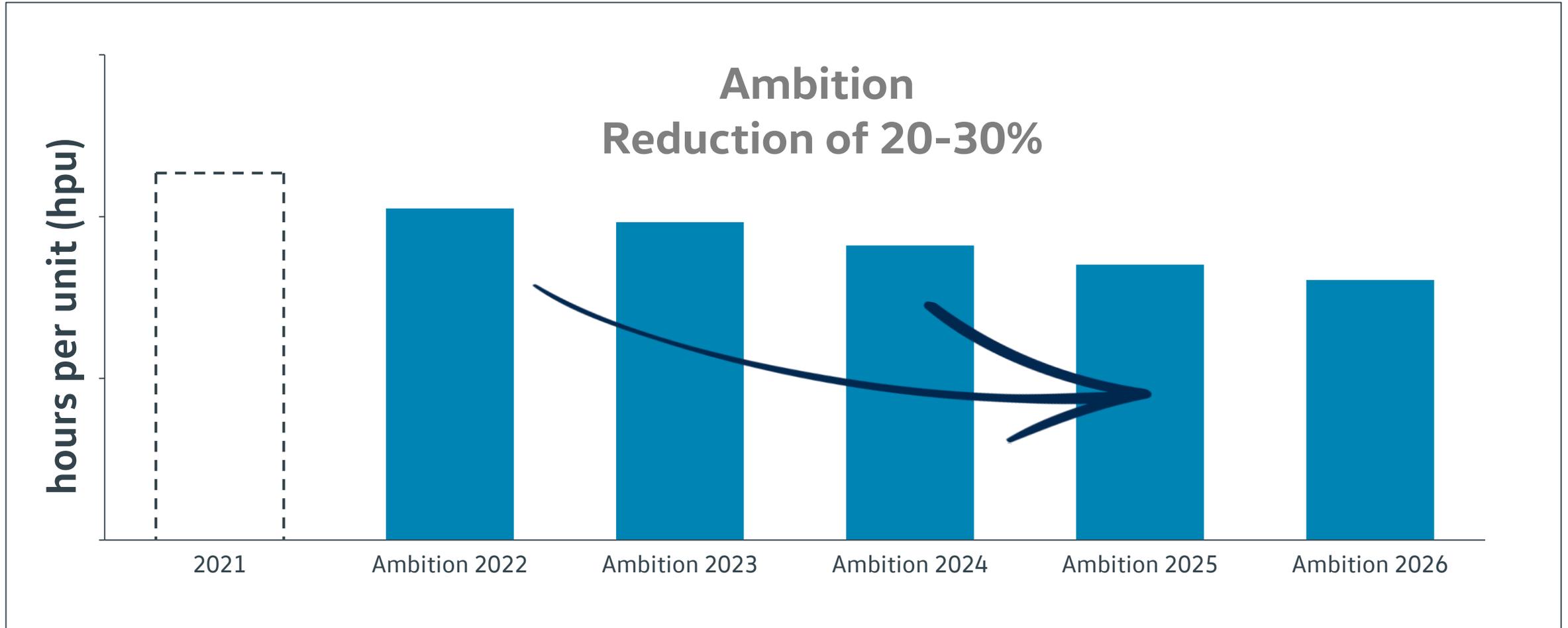


Shopfloor orientation



Project management

MEB allows for reduced production time



Volkswagen ID.4 from Saxony

