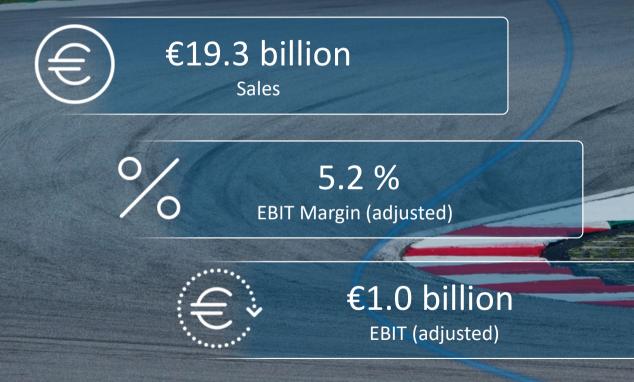


Learning Journey "Factory of the Future" - ZF Group Best Practices

Marcus Vukitsevits | ZF Friedrichshafen AG

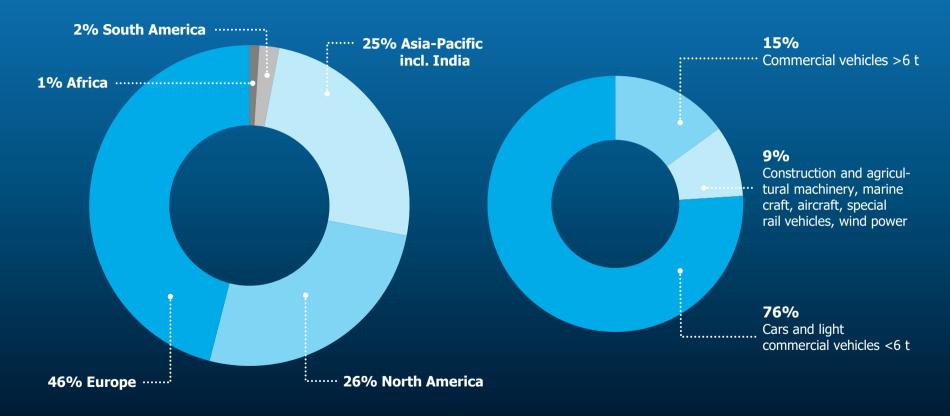


2021 Half-Year Figures





Overall Sales €32.6 Billion in 2020





Key Figures – Locations



Worldwide Presence – Production, Development, Sales and Service

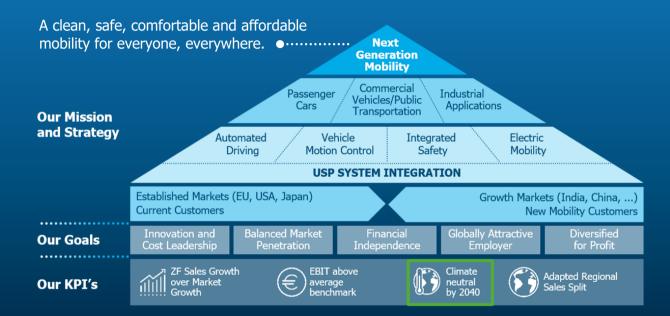


On Track with our 2021 Priorities





Next Generation Mobility Strategy



ZF's ambitious climate strategy: Climate neutrality across all emission categories by 2040



ZF – Next Generation Mobility



•

ZF Shapes the Future in Four Technology Domains





Our USP – Technology Transfer to all Segments

DAE

PASSENGER CARS

COMMERCIAL VEHICLES / PUBLIC TRANSPORTATION

see. think. a

F

INDUSTRIAL APPLICATIONS

AFTERMARKET BUSINESS



Next Generation

Micro-Mobility

Urban Mobility

Mid- and Long-Range Mobility



Climate Neutrality at ZF



ZF's Target: Becoming Climate-neutral by 2040



Direct CO₂ emissions (Scope 1) CO₂ emissions from energy consumption (Scope 2)

CO₂ emissions of upstream value chain & product use (Scope 3)



Measures in Focus to Achieve 2030 Targets



$\sqrt{1}$	+20% energy efficienc in 10 years
	in 10 years



90% of European steel from electric arc furnace



>40% fully electrified powertrain



100% green power in all ZF Locations worldwide

50% CO₂ neutral road transport in ZF logistics network

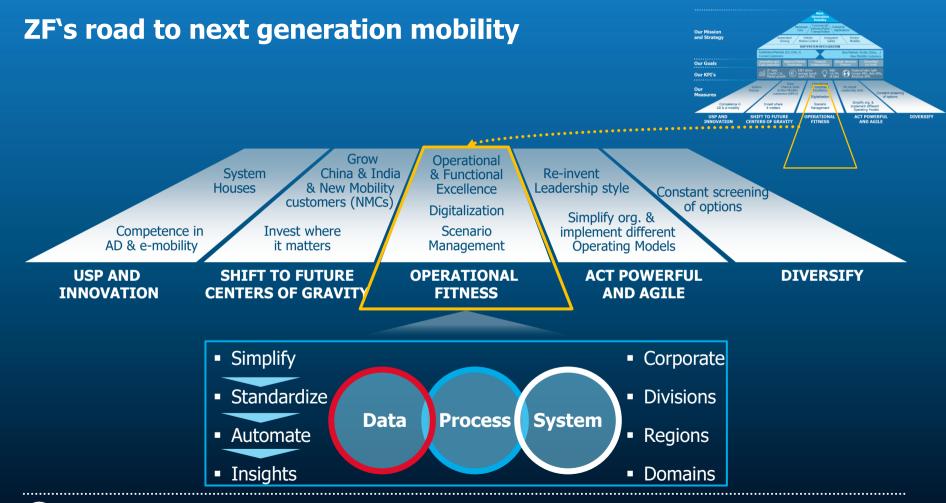


50% recycled materials in ZF products



ZF's Way to Smart Factory







ZF way to realize faster innovations and reduce costs by consolidating system landscape



From heterogenous system landscape to real-time intelligent enterprise



Consolidated system architecture

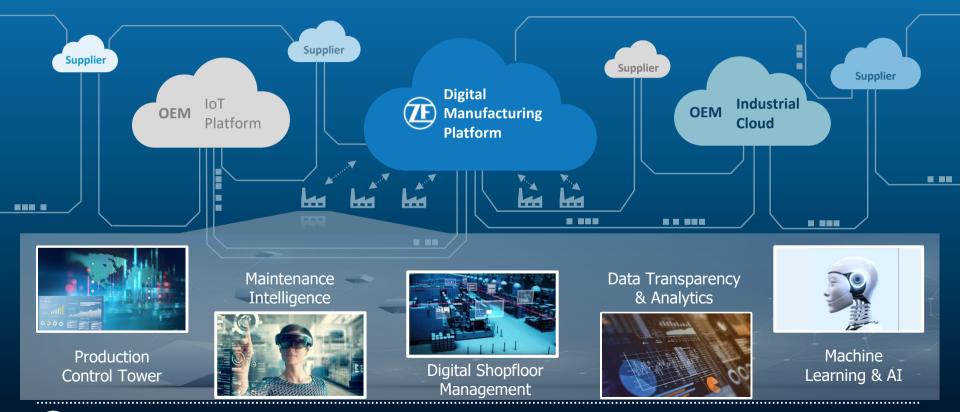
Harmonization and innovation for system landscape





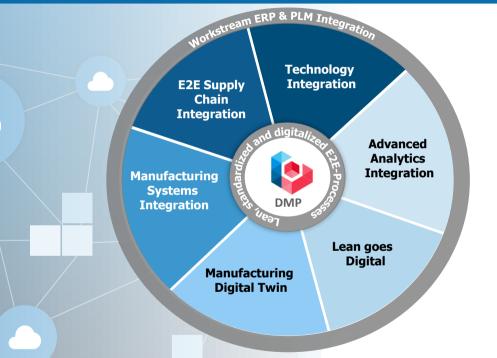


ZF's IIoT platform as key enabler to achieve our vision of connected smart factories





Digitally enabled "One Global Production Network with leading efficiency, flexibility and productivity"





Digital Manufacturing Strategy Mission

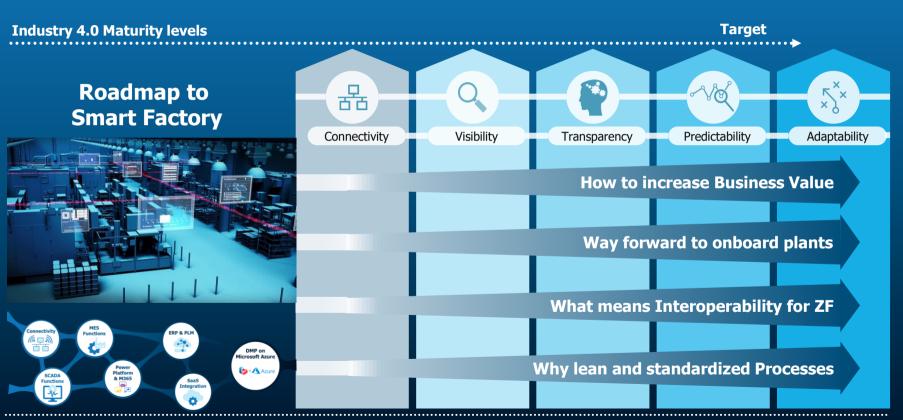
Establish a **learning culture** with a flexible organization and standardized IT solutions to

- enhance productivity
- increase efficiency
- provide flexibility and guicker value to our company

With a powerful IIoT platform (DMP) as key enabler for significant productivity increase in manufacturing



ZF's way forward to digitally enabled one global production network with leading efficiency, flexibility and productivity





ZF's Way to Smart Factory

Learning Journey "Factory of the Future" in February 2022 at ZF in Saarbrücken