

Supplier Strategies for the

Mobility Transformation

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Bosch - A Global Network



ADA 410,000*

Bosch associates make these solutions possible



Four business sectors



Mobility Solutions



Industrial Technology



Energy & Building Technology

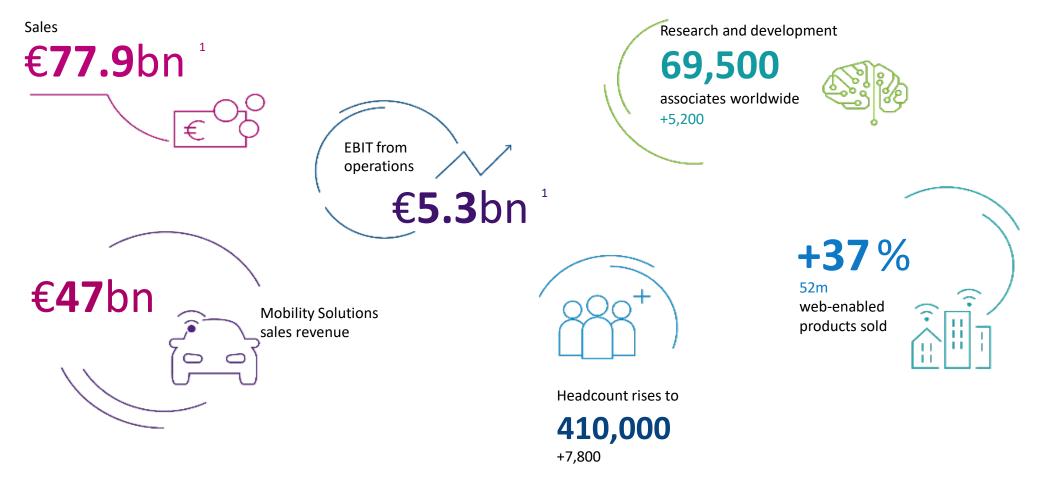


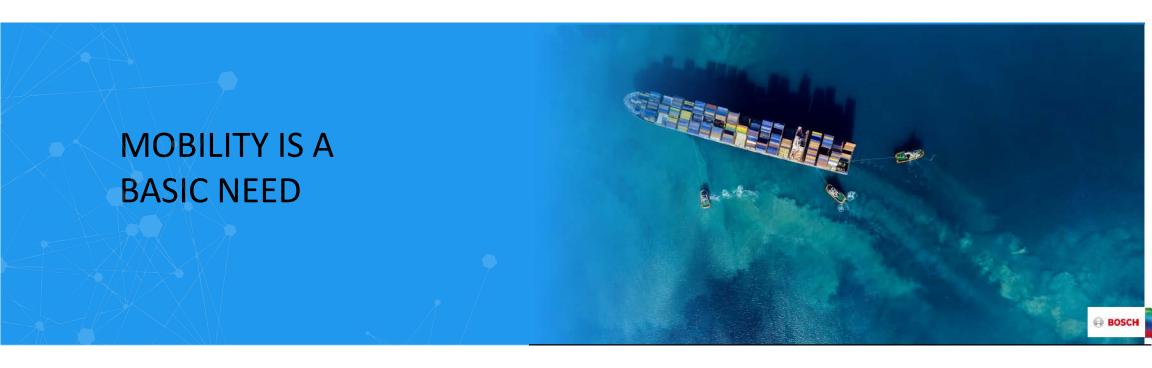
Consumer Goods

* As of 12.18



Highlights of the 2018 business year









⊜ BOSCH









It is time for a CHANGE









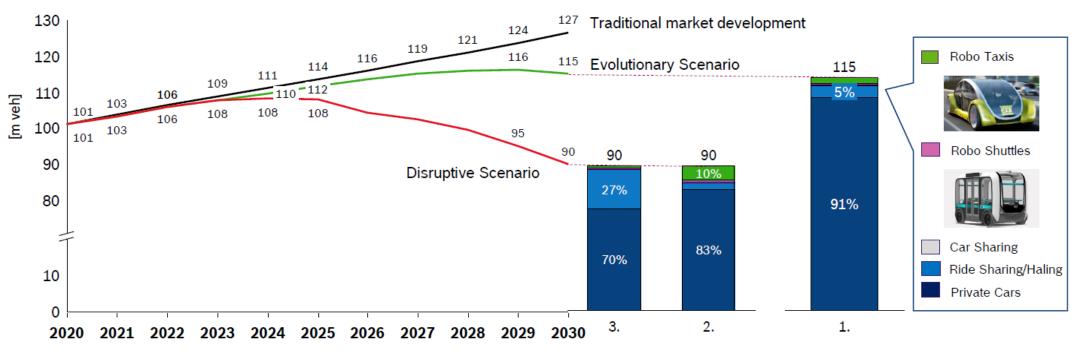






Mobility Transformation Scenarios

Reduction of private single car use in disruptive scenarios

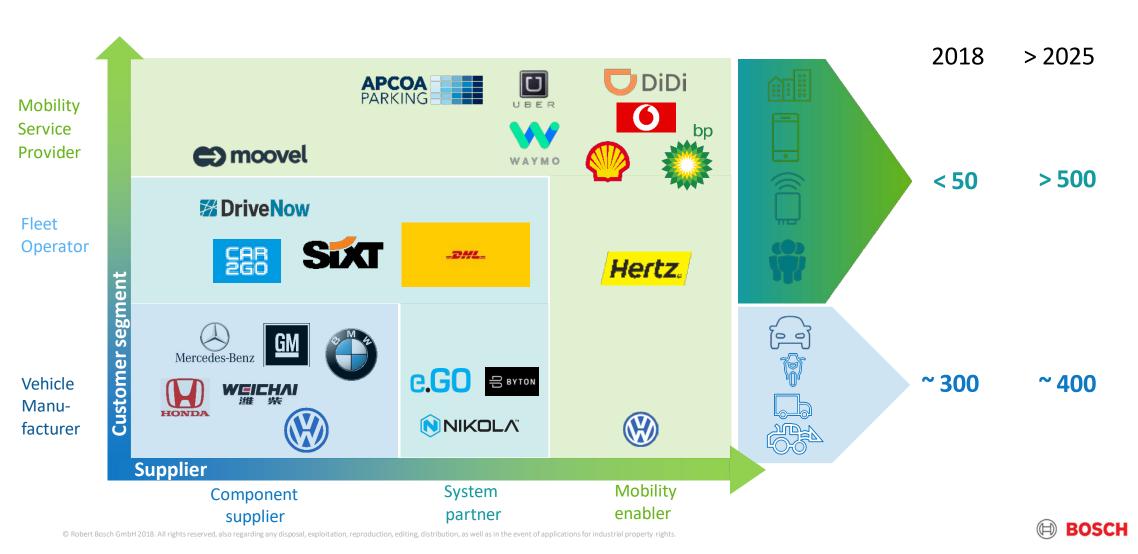


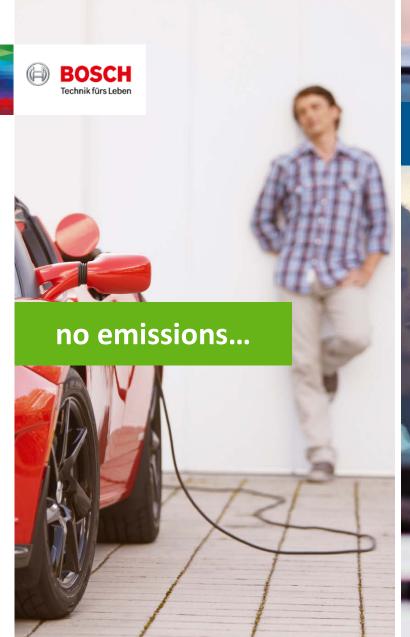
	Scenarios	CAGR '20-'30	Total Shared	Robo Shuttle	Robo taxi	Total SR*	Premises/Assumptions 2030
-	1. Evolutionary Sc.	1,3%	9% (x m)	0,7%	2,6%	2,2	Private car use still dominating
_	2. Disruptive Sc. Robo**	-1,2%	17%	1,4%	10,2%	3,8	Strong increase of robo-taxis
-	3. Disruptive Sc. Sharing	-1,2%	30%	1,7%	1,1%	2,4	Strong increase of ride sharing (less single private car use)

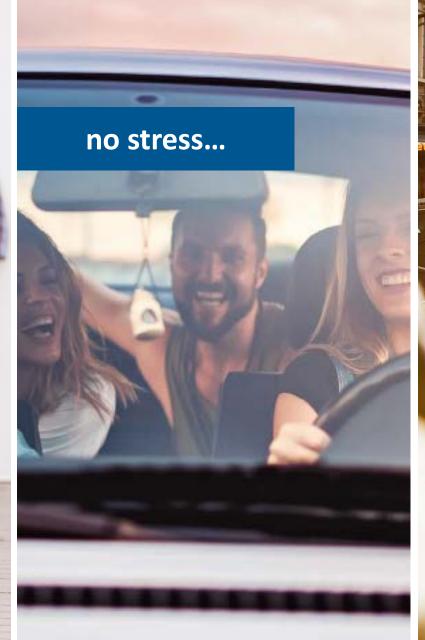
^{*} SR - Substitution Rate **Robo - Highly automated driving

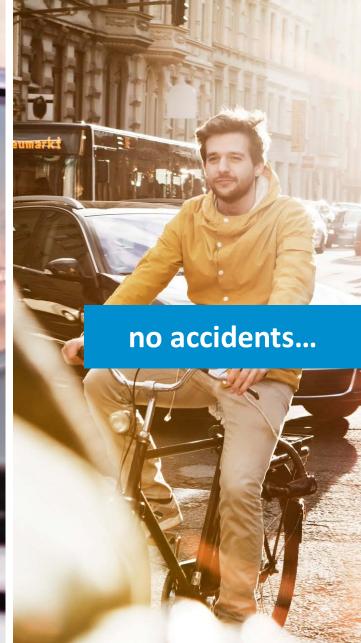


Extended Customer Landscape





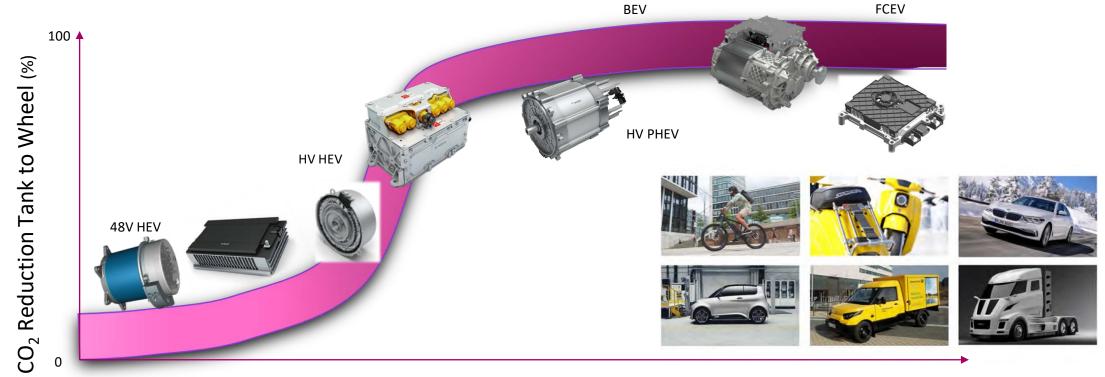








Powertrain Electrification



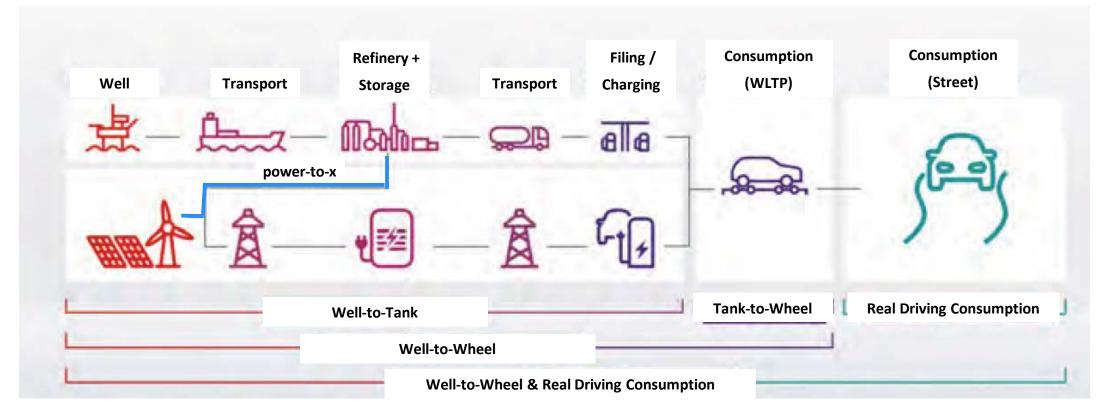
Degree of Electrification



CO₂ Emissions

No emissions

CO₂ challenge

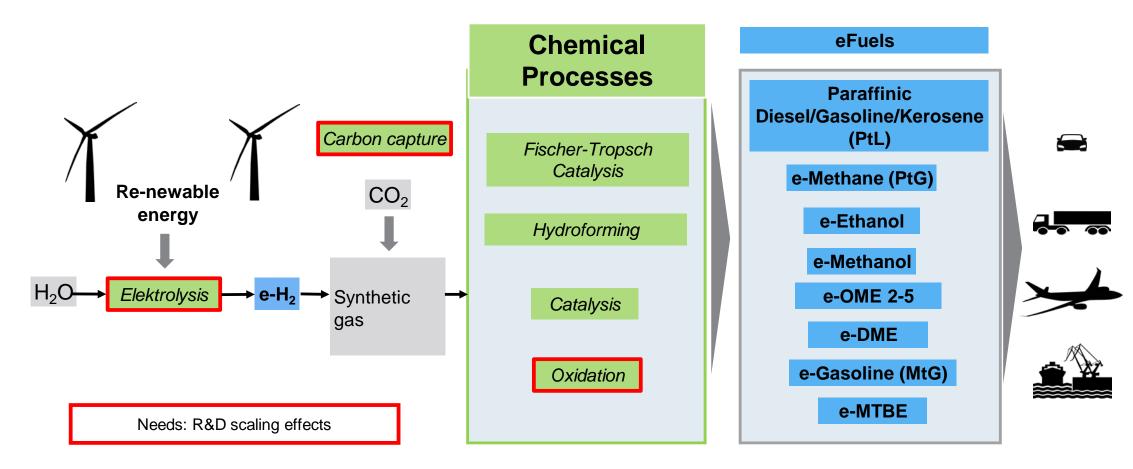


Well to Wheel Transparency / More Clarity in Climate Protection



Powerfuels: A needed contribution to de-carbonizing mobility

eFuels = re-newable energy, H_2O and CO_2

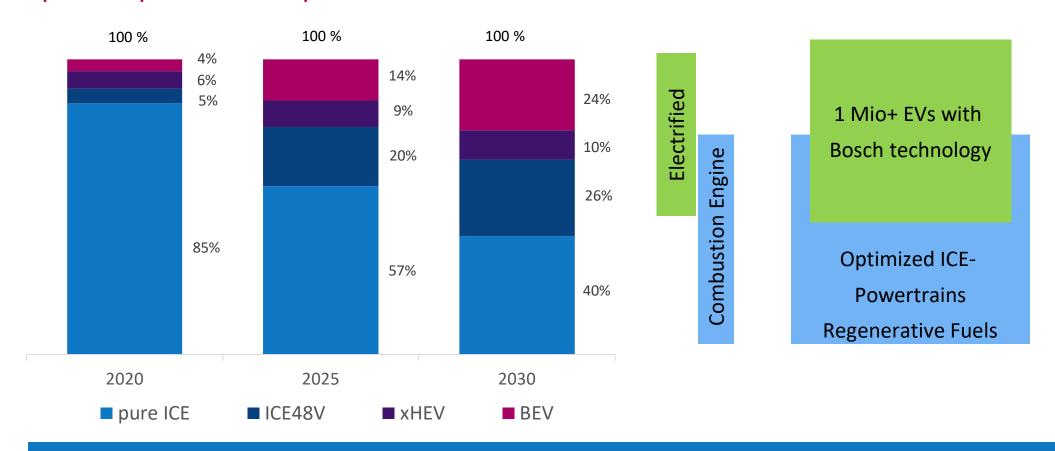




Propulsion 2030

no emissions

Expected powertrain split PC and LCV < 6t



In 2030 ~25% of new registrations are purely electric. Combustion engine remains important

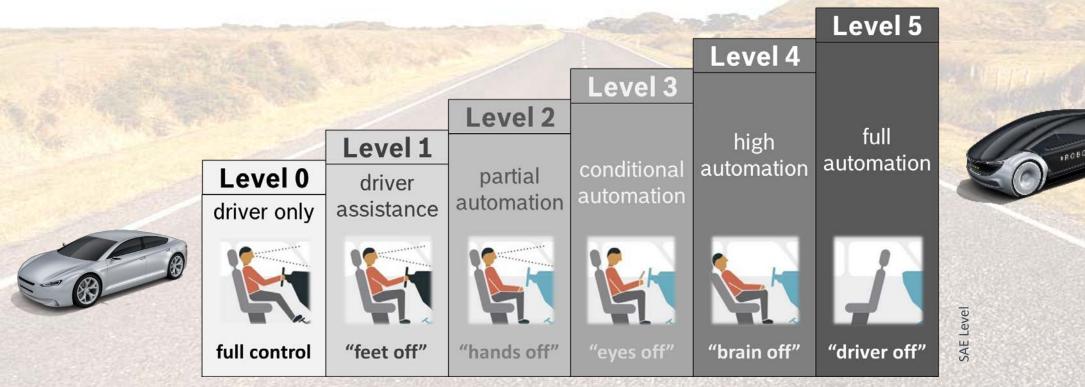




Paving the way to Automated Driving

Different Steps towards Full Automation

no accidents...



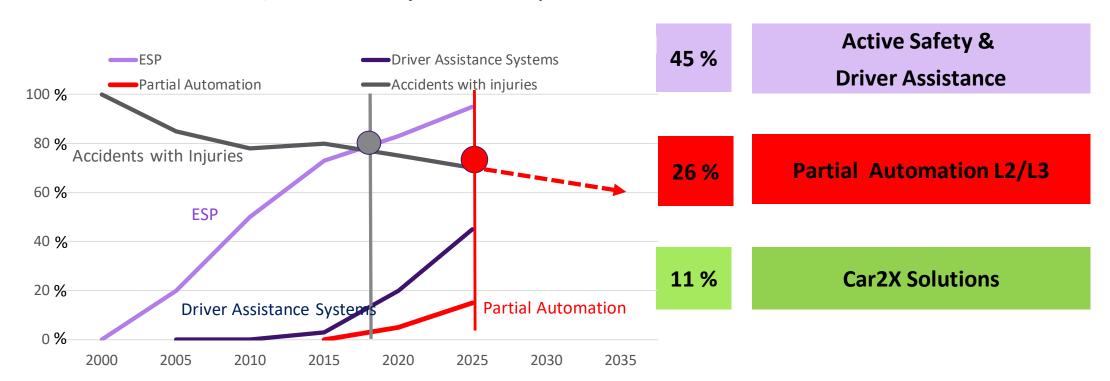


Automated Driving

Safety Potential

no accidents...

Installation Rates / Accidents with Injuries in Germany



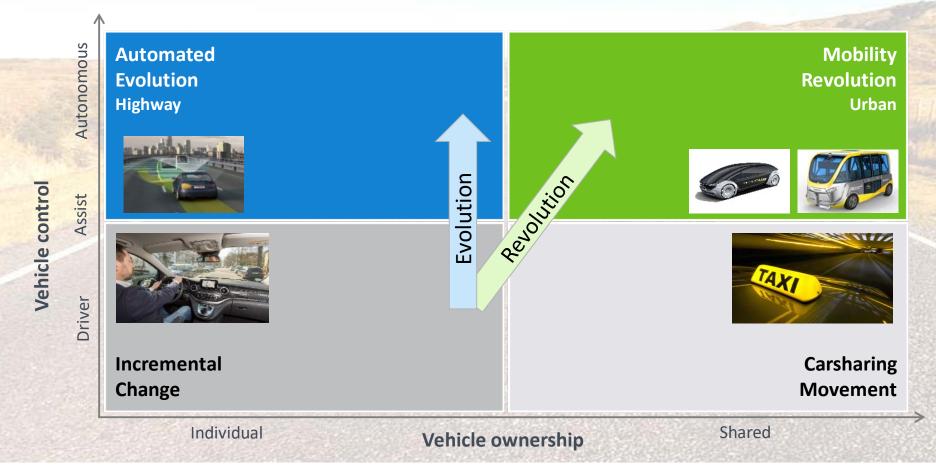
Automated driving has big potential for accident avoidance



Paving the way to Automated Driving

Two main areas emerge in the market

no accidents...



Paving the way to Automated Driving

Major challenges and enablers

no accidents...



highly robust in all use cases

redundancies for sensing, ECU's & actuation required (fail operational)

protection against technical failure and deliberate attacks







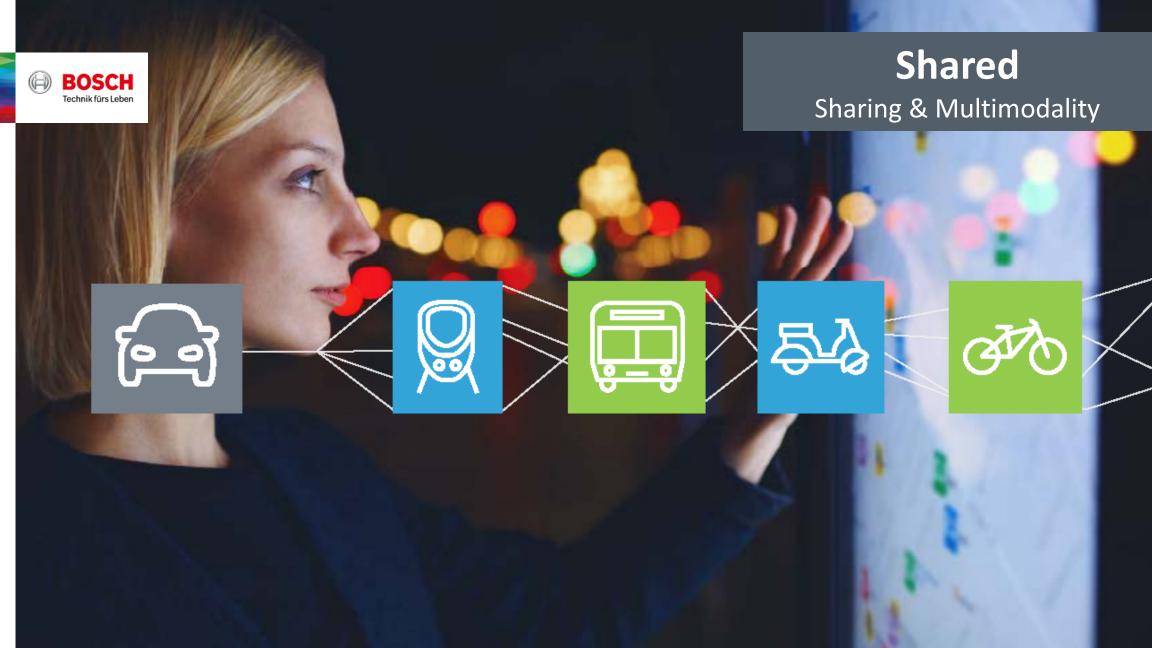
Connected

~5 Million cars already connected with BOSCH IoT Hardware & Software

200+ Bosch cybersecurity specialists







Individual Mobility

































➤ Different Solutions for individual mobility needs





FUTURE MOBILITY WILL BE



















THANK YOU

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