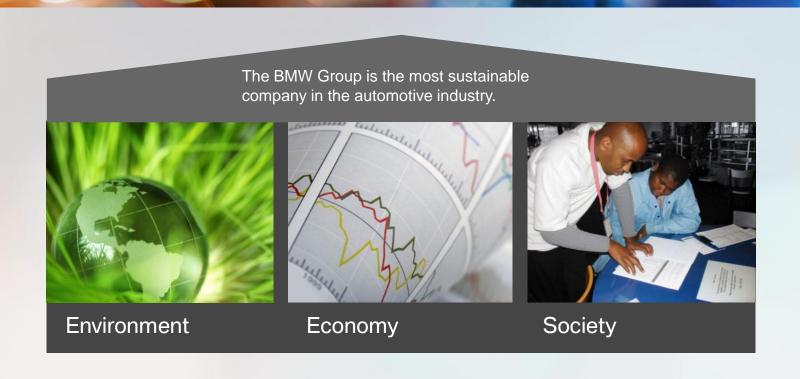
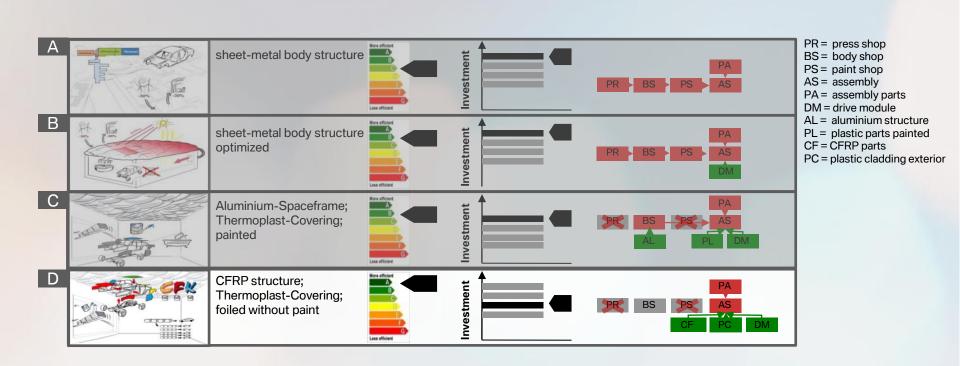


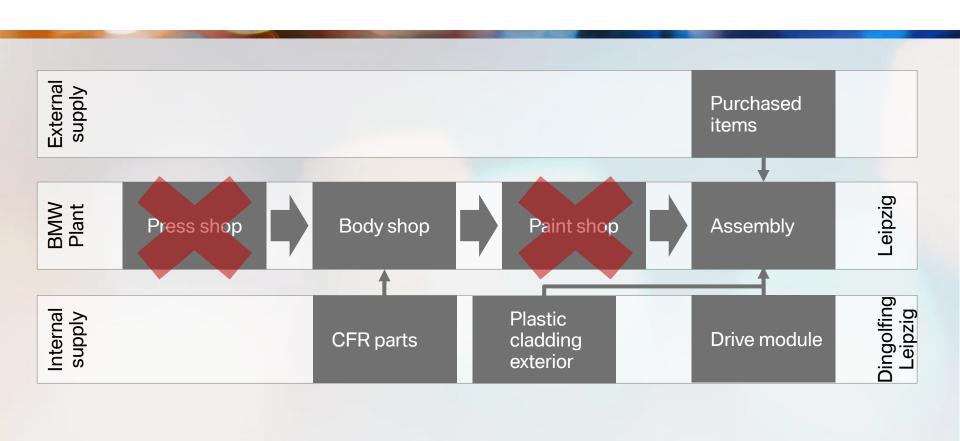
SUSTAINABILITY PLAYS A MAIN ROLE FOR BMW GROUP – AND EVEN MORE SO FOR BMW i.



PRODUCTION CONCEPT DECISION BASED BOTH ON SUSTAINABILITY AND PROFITABILITY.

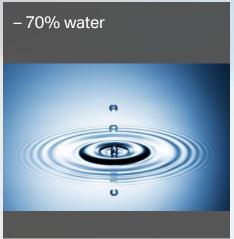


NEW PRODUCTION CONCEPT.



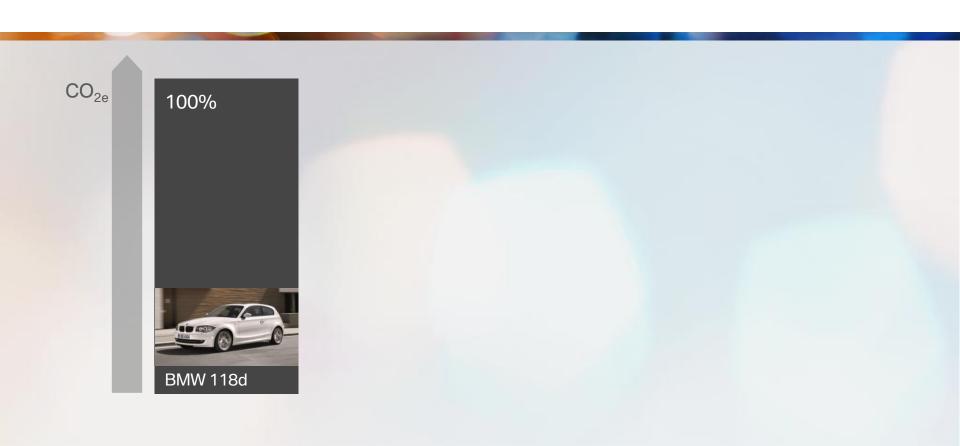
PRODUCTION OF BMW i MODELS IN LEIPZIG IS SETTING BENCHMARKS IN THE AUTOMOTIVE INDUSTRY.



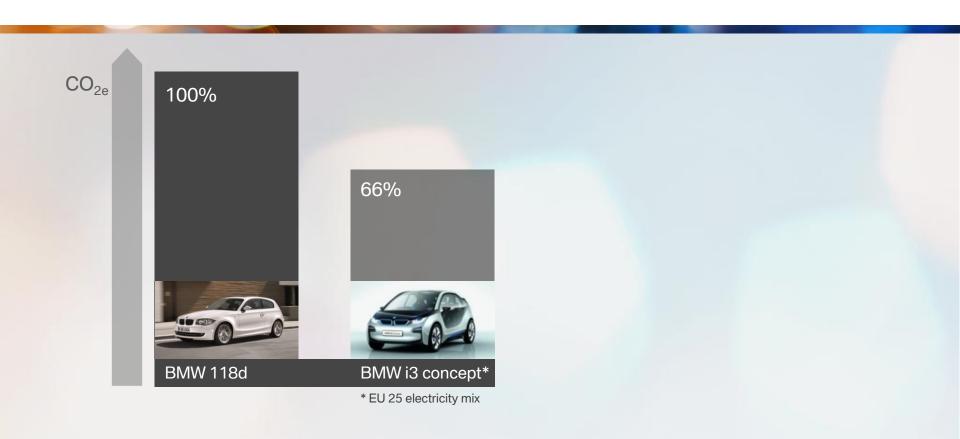




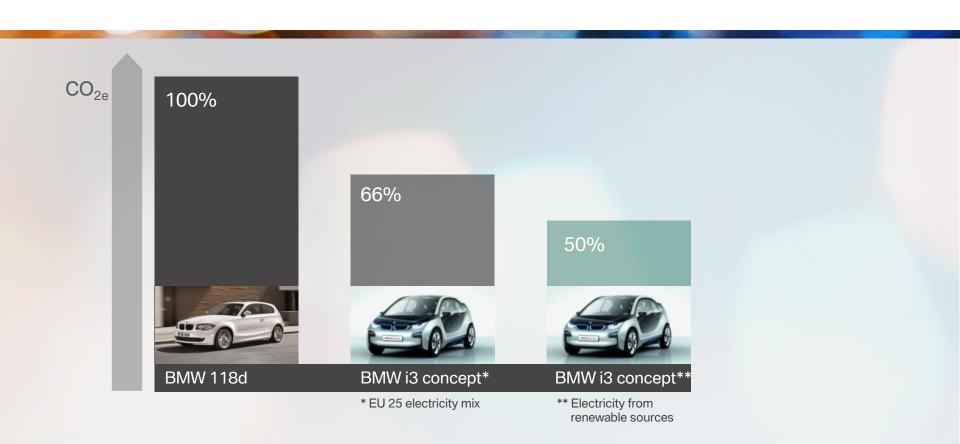
GLOBAL WARMING POTENTIAL IN THE PRODUCT LIFE CYCLE SIGNIFICANTLY LOWER.



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50% LESS CO₂ (EQUIVALENT) EMISSIONS IN BMW i CFRP PRODUCTION.







BMW PLANT LEIPZIG - BMW i PRODUCTION WITH WIND ENERGY.



100 % GREEN ENERGY FOR BMW i PRODUCTION.

4 wind energy plant à 2,5 MW

Average energy output/ year: 26 GWh/ a

Hub height 140 m + blade length 50 m

BMW PLANT LEIPZIG - BMW i PRODUCTION WITH WIND ENERGY.

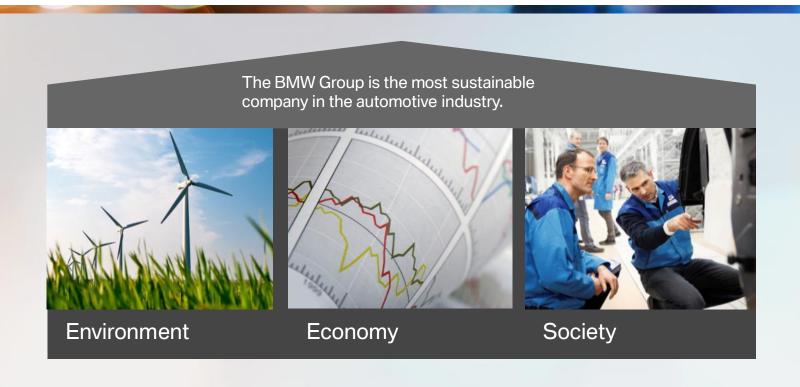


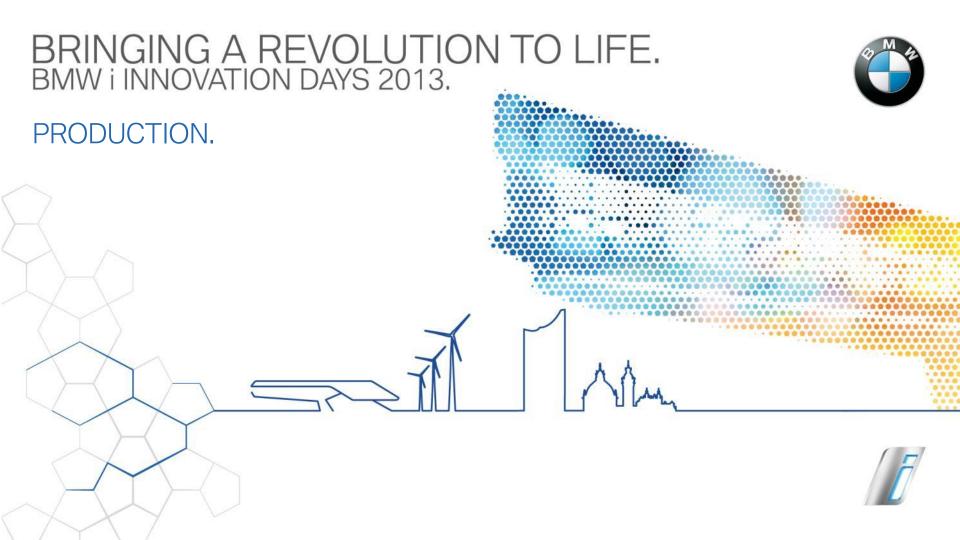
Dr. Reithofer, Annual Press Conference March 19, 2013

"We are revolutionizing how cars are made."

- 100 % green energy
- LEED Gold Certificate
 (Leadership in Energy and Environmental Design)

SETTING NEW STANDARDS IN THE MANUFACTURE OF BMW i.





RETHINKING THE WAY WE LAYOUT AND BUILD CARS. WHY?









Visionary design language



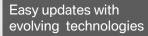




LIFE DRIVE

CFRP as an highly innovative technologie







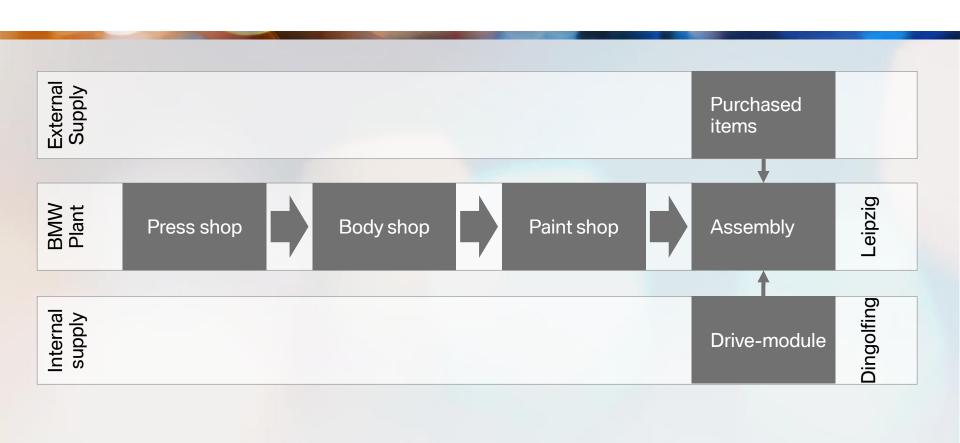
Social sustainability



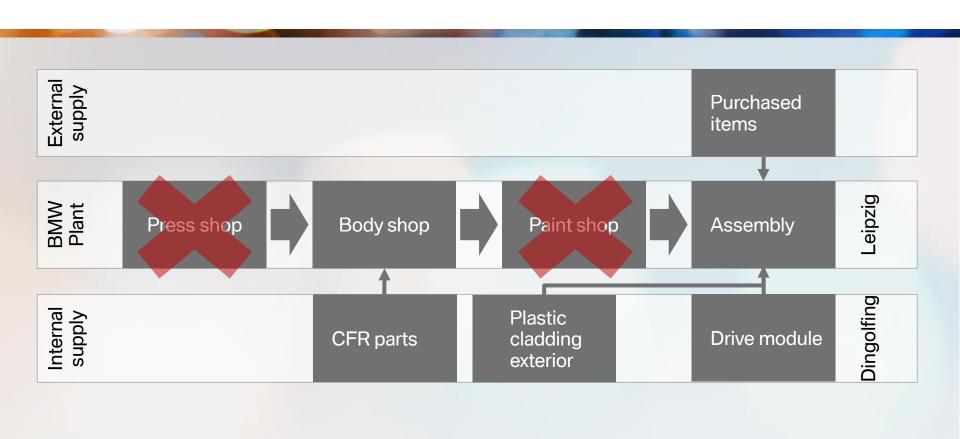
Optimum safety concept for passerngers and battery



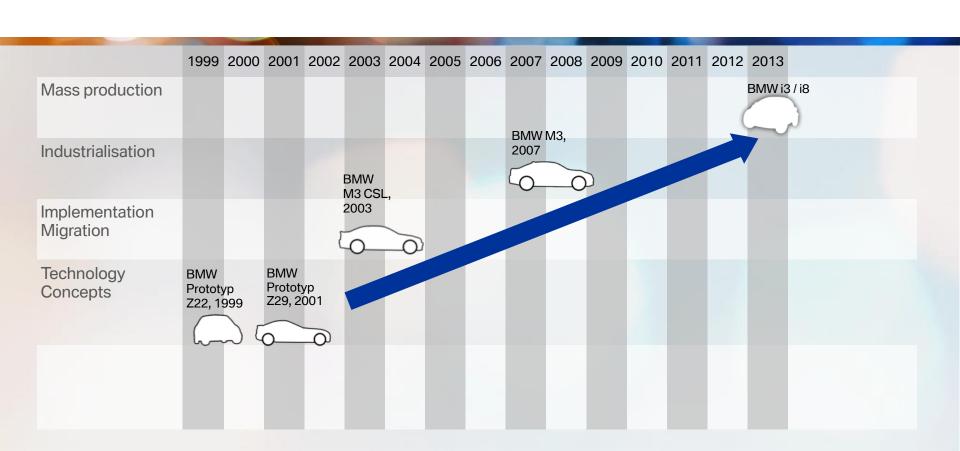
CONVENTIONAL PRODUCTION CONCEPT.



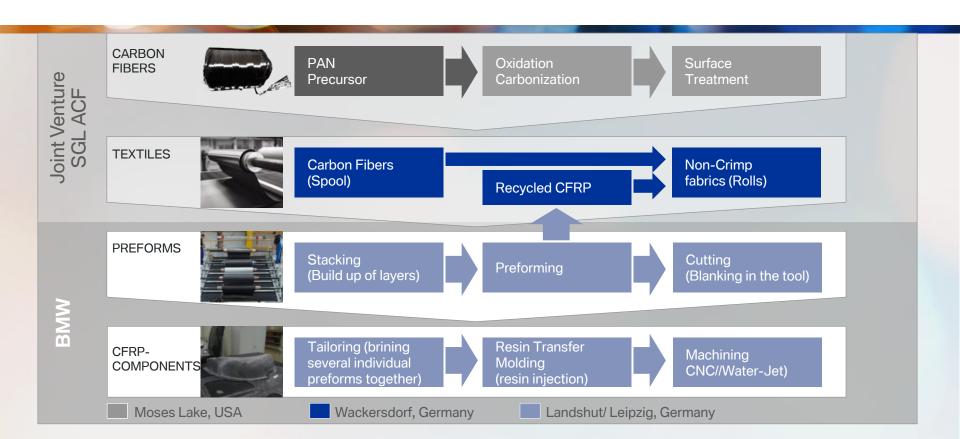
NEW PRODUCTION CONCEPT.

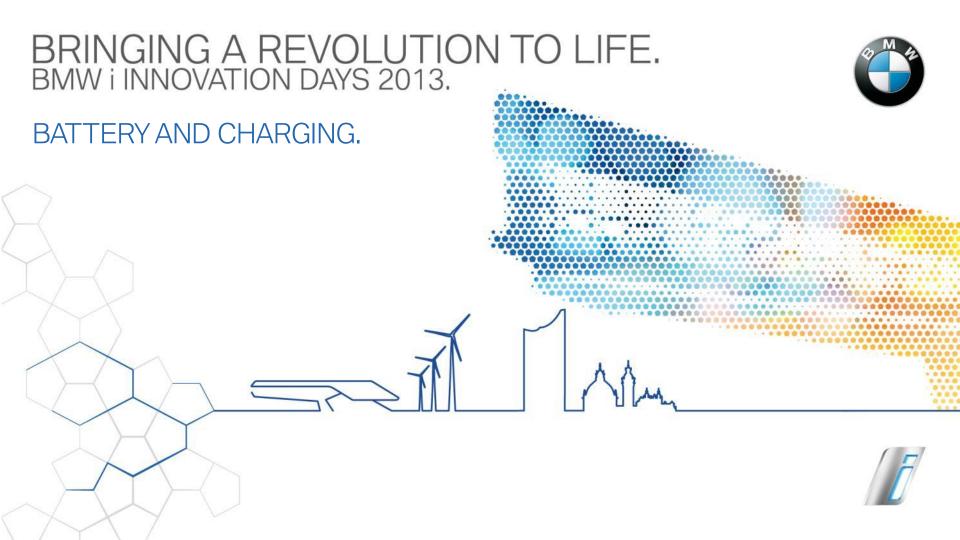


BMW HAS MORE THAN 10 YEARS EXPERIENCE IN CARBON FIBRE PRODUCTION AND ASSEMBLY.

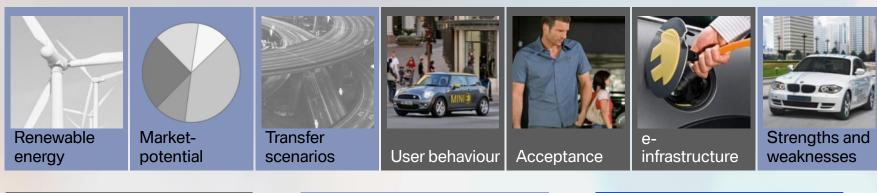


BMW GROUP AND SGL ACF "OWN" ALL CFK PRODUCTION STEPS.





THE MINI E AND BMW ACTIVEE SERVE AS KEY LEARNING PROJECTS FOR ELECTRIFIED SERIES PRODUCTS SUCH AS THE BMW i3.











WHY LIFEDRIVE?

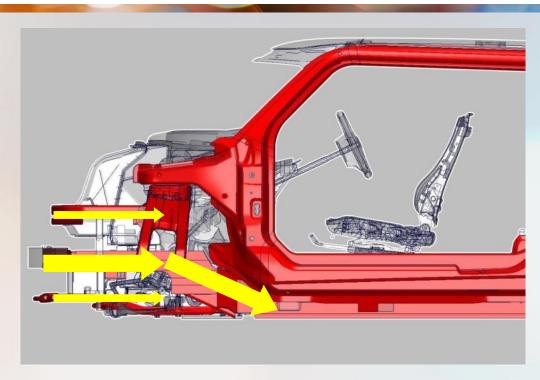




Many advantages

- Easy to create variants.
- Weight reduction by lightweight design.
- Specific structure to house the battery.
- Optimum integration of eDrive powertrain
- Low centre of gravity good rollover resistance.
- Optimum safety concept.

FRONTAL IMPACT.



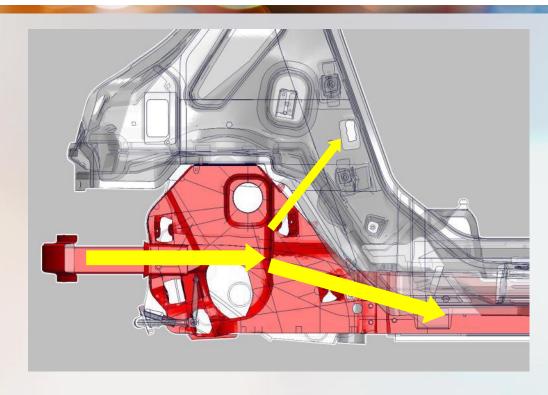
Impact energy is distributed optimally through the Drive and Life modules.

High-strength CFRP passenger cell remains almost free of deformation:

- Survival cell remains intact.
- Doors do not get jammed.

Rear-mounted motor allows low crash pulse and therefore low occupant loading in a frontal crash.

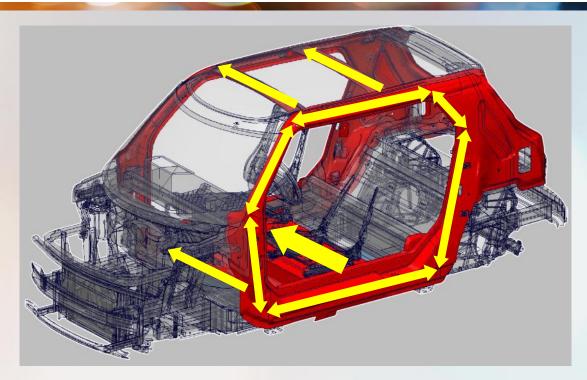
REAR IMPACT.



Impact energy is absorbed mainly by the Drive module.

Impact-resistant rear end structure protects high-voltage components.

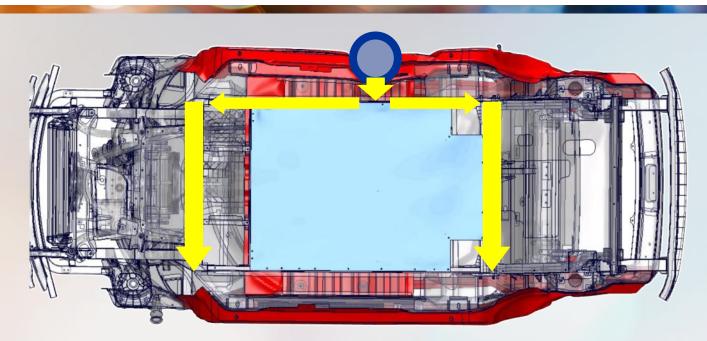
SIDE IMPACT.



Honeycomb-elements in the sill absorb the impact energy and divert it over the Drive module.

High-strength CFRP passenger cell allows major reduction in intrusion and therefore provides a good basis for occupant protection.

HIGH-VOLTAGE BATTERY (HVS) IMPACT.



Intrusion of pole is stopped before reaching the HVS.

Optimum position of the HVS outside the deformation zones.

RESCUE.



"[we] had the opportunity to confirm in standardised cutting tests that the rescue of passengers from a crashed BMW i3 is similar to a conventional vehicle."

Munich Municipal Fire Brigade, March 2013

SAFETY.

The BMW i safety is on eye-level with conventional BMW.

SERVICE.

The BMW i total repair costs will be on eye-level with conventional BMW.