

INTERNATIONAL MEDIA LAUNCH. THE FIRST EVER BMW i4 AND THE FIRST EVER BMW iX.



BMW iX
Product
Update.

BMW Gen5
Drivetrain
and Charging.

BMW
iDrive.

Driving
Experience.

BMW Plant
Dingolfing.

BMW
eCompetence
Centre.



INTERNATIONAL MEDIA LAUNCH.
THE FIRST EVER BMW i4 M50.



DELIVERED AS PROMISED: IN 2021 THE BMW GROUP LAUNCHES THE NEXT BIG STEP IN THEIR TRANSFORMATION TOWARDS E-MOBILITY.

BMW iX FOCUS:

- ▶ New technology kit for automated driving, incl. new features.
- ▶ Interior of the future.
- ▶ High end connectivity.
- ▶ Extended sustainability.

BMW i4 / BMW iX SHARED FEATURES:

- ▶ BMW eDrive GEN5.
- ▶ Next generation cockpit.
- ▶ BMW Operating System 8.
- ▶ Wide choice of options for individualization.
- ▶ Refinement & built quality.
- ▶ Service & repair quality.

BMW i4 FOCUS:

- ▶ The ultimate driving machine.
- ▶ Long distance driving comfort.
- ▶ Elegance and practicability.
- ▶ First ever BEV from BMW M.



THE FIRST EVER BMW i4. TECHNICAL MAIN DATA.



BMW i4 eDrive40

250 kW / 340 hp

430 Nm

5.7 seconds

up to 590 km

19.1 - 16.1 kWh/100 km

205 kW

164 km

Level 2+

BMW OS8

58,300 €



BMW i4 M50

400 kW / 544 hp

795 Nm

3.9 seconds

up to 521 km

22.5 - 18.0 kWh/100 km

205 kW

140 km

Level 2+

BMW OS8

69,900 €

Power

Torque

Acceleration (0 - 100 km/h)

Range (WLTP)

Energy consumption (WLTP)

Max. DC charging power

Added range per 10 mins max. DC charging

Automated driving level

Operating system

Base price in EU



Specifications valid for Germany model.

THE BMW i4 IS PAVING THE WAY FOR THE FIRST FULLY ELECTRIC BMW M MODEL.

True M Performance
More agility More precision
More emotion



- Standard equipment for the BMW i4 M50 also includes:
 - Adaptive M Suspension.
 - M Sport Brake.
 - M Aerodynamic Package.
 - M Interior.
 - M specific BMW IconicSounds.



THE FIRST EVER BMW i4. E-MOBILITY HAS REACHED THE HEART OF THE BMW BRAND.

"THE BMW i4 TRANSFERS BMW BRAND DNA AND THE BMW TYPICAL DRIVING PLEASURE INTO THE ERA OF ELECTROMOBILITY." David Ferrufino, Head of BMW i4 Project.

DESIGN.

- ▶ Pure emotion through sporty proportions with Gran Coupé character.



SPORTINESS & COMFORT.

- ▶ Perfect quartet between driving dynamics, elegance, comfort and long distance driving.

ELECTRIC DRIVING PLEASURE.

- ▶ Amazing acceleration, high range and adaptive recuperation system.

USER EXPERIENCE & CONNECTIVITY.

- ▶ Intuitive user interface and IconicSound - driving with all senses.



THE FIRST EVER BMW i4 M50. GEN5 E-DRIVETRAIN PERFORMANCE & EFFICIENCY.



First time use of Gen5
in xDrive (AWD) layout.

Rear axle electric
motor 230 kW.

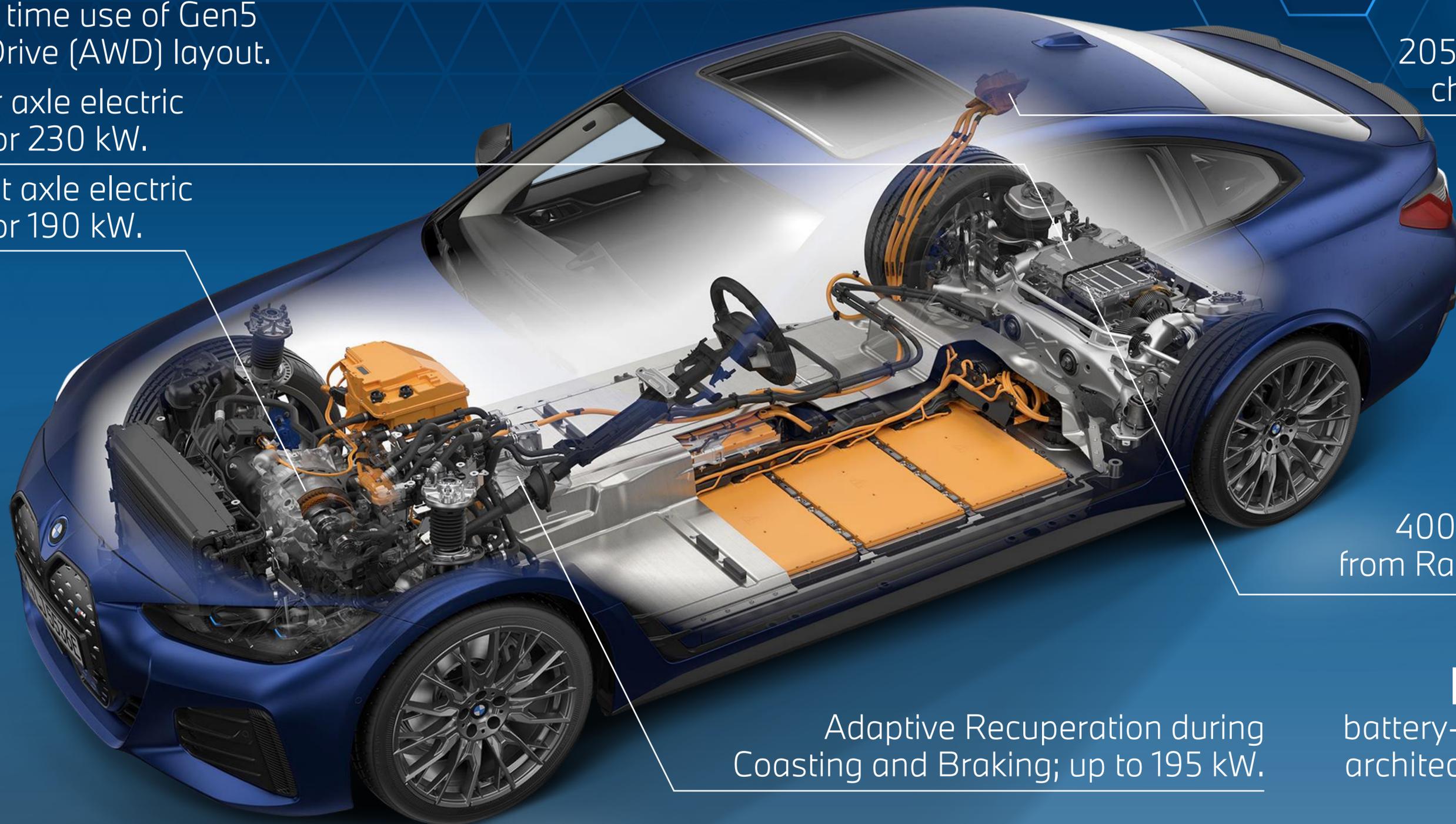
Front axle electric
motor 190 kW.

205 kW DC / 11 kW AC
charging (3-phase).

Highly integrated
drivetrain unit
400 kW / 544 hp
electric motor,
transmission and
400 V electronics, free
from Rare Earth Materials.

Adaptive Recuperation during
Coasting and Braking; up to 195 kW.

BMW GEN5
battery-electric drive train
architecture components.



THE FIRST EVER BMW i4 M50 CHASSIS.* THE FIRST ELECTRIC BMW M PERFORMANCE MODEL.



Additional precisely interlinked bracing elements for enhanced driving dynamics by increased longitudinal and torsional stiffness of the body structure.

Increased track width.*

➤ 26 mm front.

➤ 12 mm rear.

Gurney flap for reduced aerodynamic lift.

Rear axle with air springs.

Bracing elements for the rear axle.

37 mm lower center of gravity compared to BMW 3 Series.

Adaptive M Suspension as standard including VDC dampers and Variable Sports Steering.

Increased negative camber at front axle.

Max. tire dimension 255/35 R20 97Y XL
285/30 20 99Y XL diameter line 680 HP tires.

48.2 / 51.8 % axle load distribution.

* In comparison to BMW 3 Series.



THE FIRST EVER BMW i4. INNOVATION ADAPTIVE RECUPERATION.

- Innovation: Adaptive Recuperation.
 - Allows for a new balance between high recuperation and driving comfort.
 - Artificial Intelligence (AI) judges environment to decide between recuperation and "sailing" - even when navigation is switched off.
 - > 90% of all "reducing speed situations" can be handled without brake intervention.
 - Max. 195 kW recuperation power (BMW i4 M50).



- Operation.
Easy switch between recuperation modes with gear lever:
 - "D" = Adaptive Recuperation.
 - "B" = "One Pedal Operation" (known from BMW i3).



THE FIRST EVER BMW i4. DIGITAL EXCELLENCE MEETS MECHANICAL PERFORMANCE.

- BMW Curved Display.
- BMW Head-Up Display (Gen3+).
- BMW Operating System 8.
- Wide range of driver assistance systems.
- Latest connectivity features.
- BMW IconicSounds Electric by Hans Zimmer.



INTERNATIONAL MEDIA LAUNCH.
THE FIRST EVER BMW iX.

iX



INTERNATIONAL MEDIA LAUNCH. THE FIRST EVER BMW iX.



Best companion
for long distance drives and
best in class Driving Comfort.

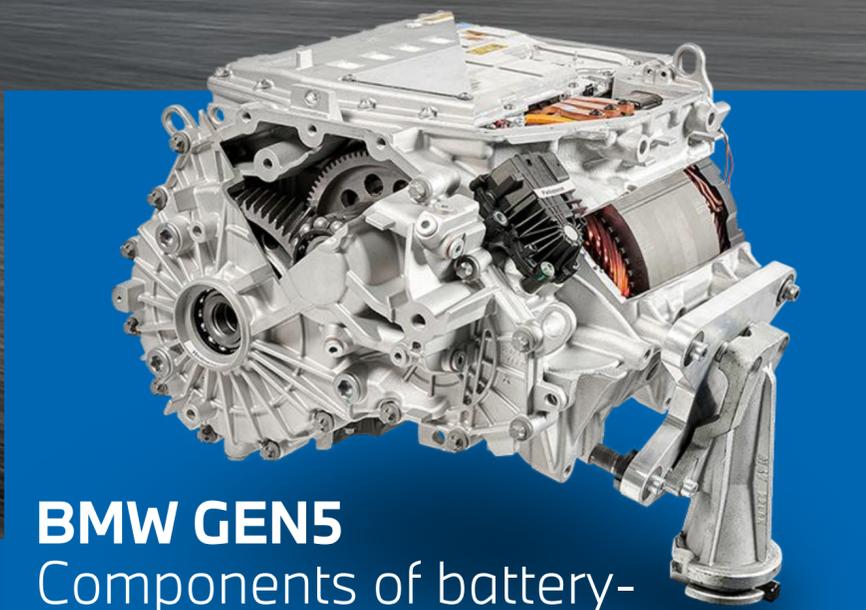
iX



Sustainability in
product design
and manufacturing.



Produced 100%
with local hydropower.



BMW GEN5
Components of battery-
electric drive system architecture.



Modern interior
paired with the latest
connectivity features.



THE FIRST EVER BMW iX. FLEXIBLY SCALABLE eDrive SYSTEM.

iX



BMW iX xDrive40

BMW iX xDrive50

BMW iX M60*

Maximum system output

240 kW / 326 hp

385 kW / 523 hp

Maximum system torque

630 Nm

765 Nm

Acceleration (0-100 km/h)

6.1 sec

4.6 sec

Range (WLTP)

up to 425 km

up to 630 km

Top speed
(electronically governed)

200 km/h

200 km/h

Details will be
communicated in 2022

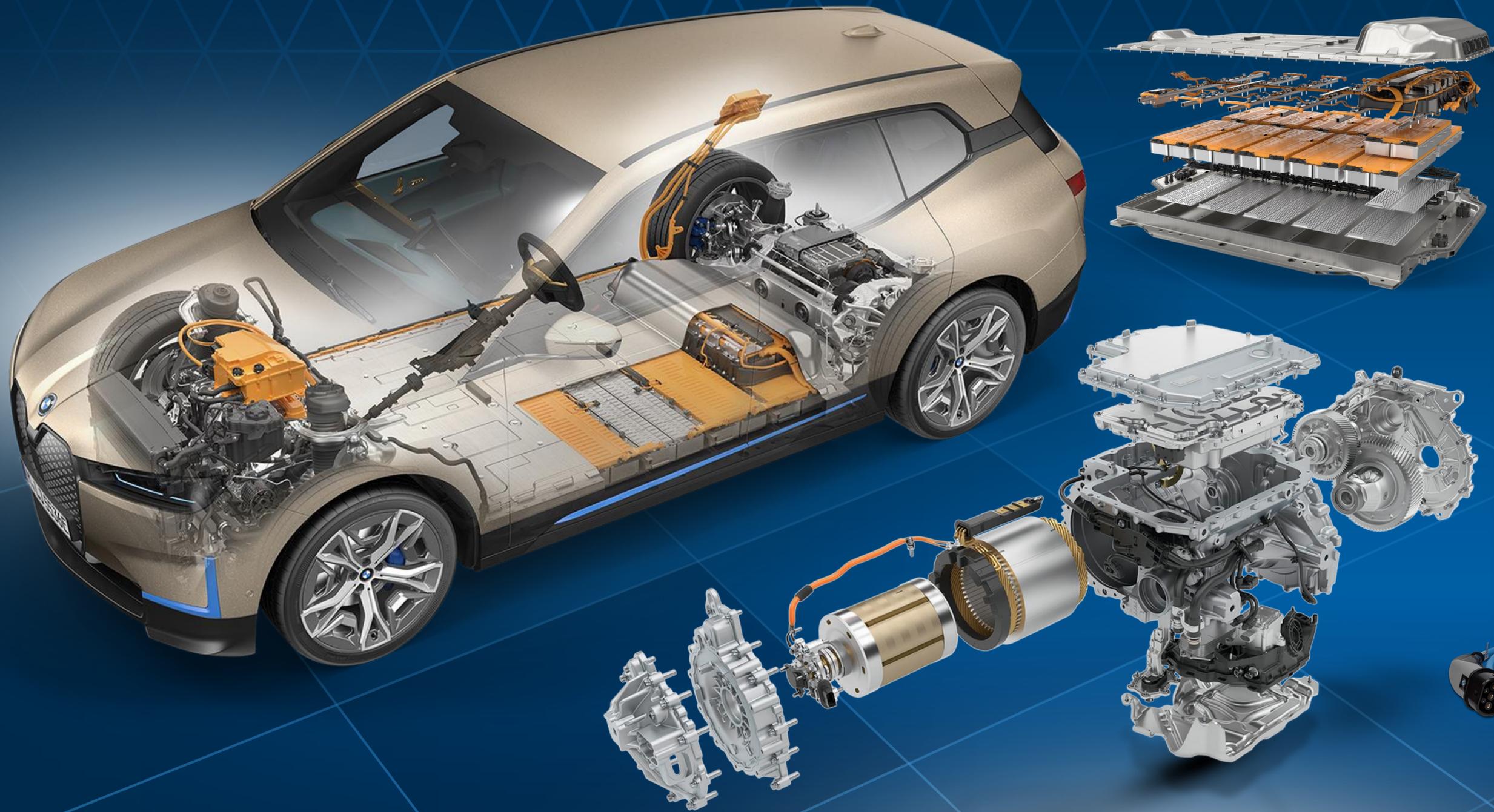
*

Market launch:
November 2021



THE FIRST EVER BMW iX.
HIGHLY INTEGRATED DRIVE UNIT.

iX



THE FIRST EVER BMW iX. INTELLIGENT LIGHTWEIGHT DESIGN.

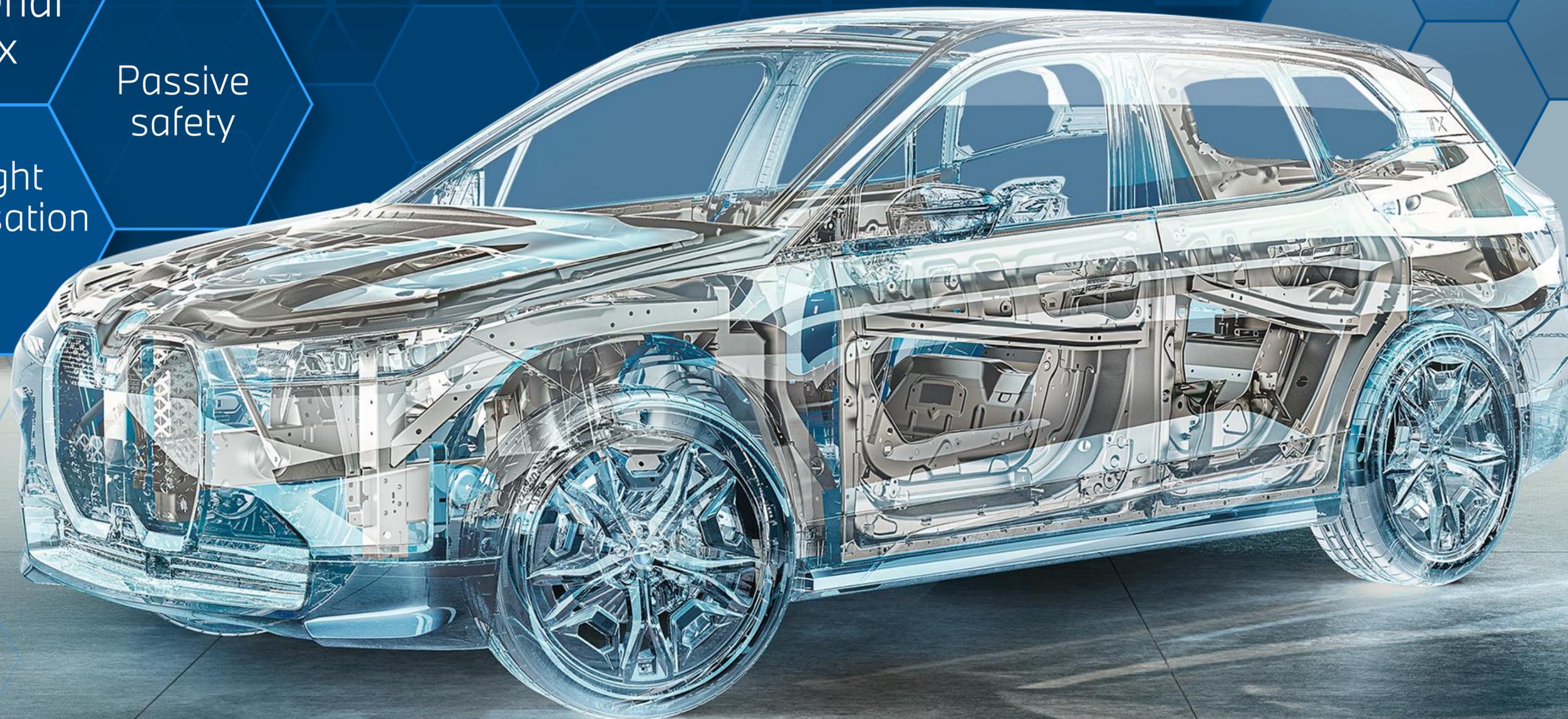
iX

Torsional
stiffness

Intelligent
material
mix

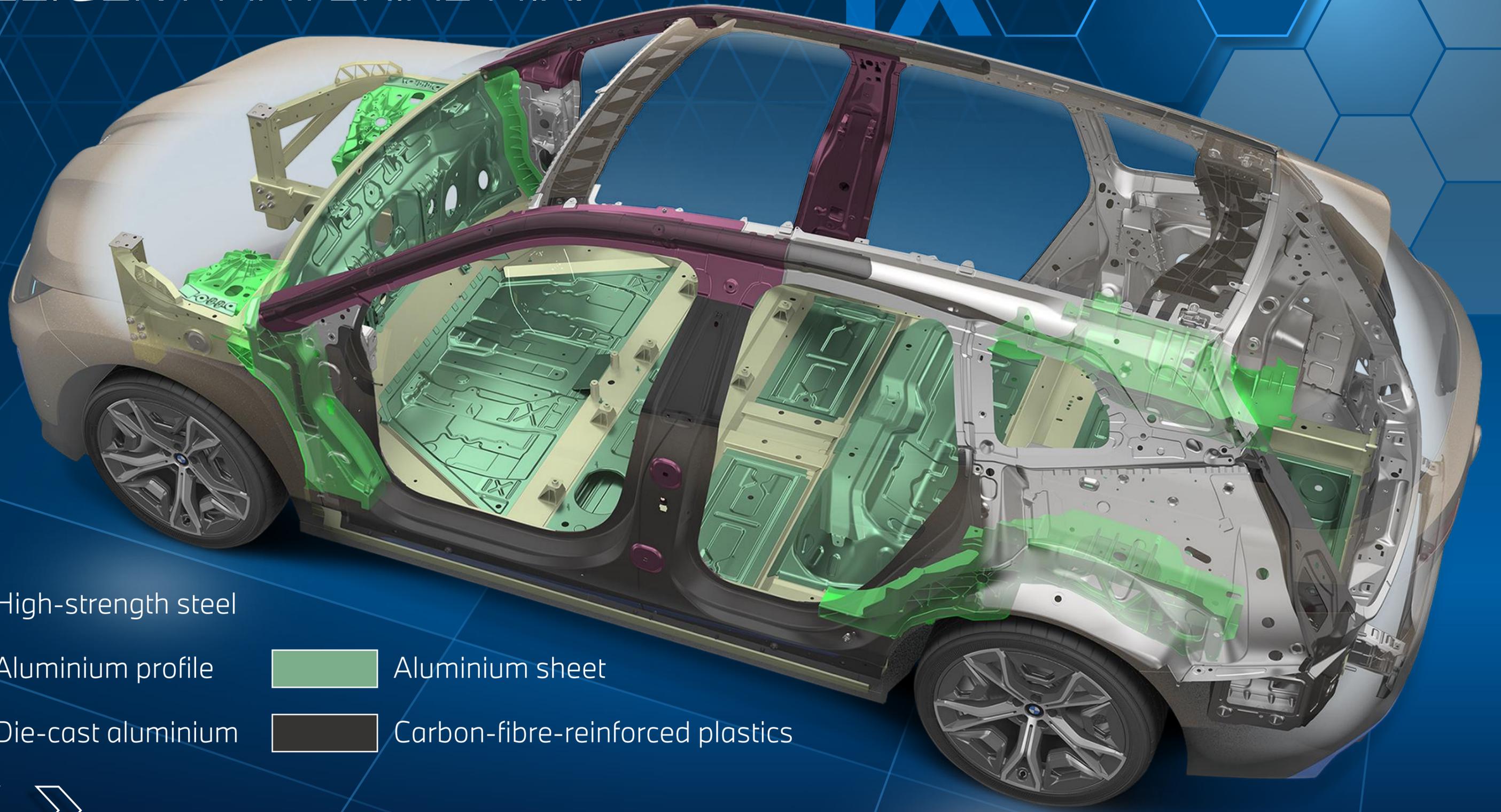
Passive
safety

Weight
optimisation



THE FIRST EVER BMW iX. INTELLIGENT MATERIAL MIX.

iX



- High-strength steel
- Aluminium profile
- Aluminium sheet
- Die-cast aluminium
- Carbon-fibre-reinforced plastics



THE FIRST EVER BMW iX – PURPOSE-BUILT BEV WITH A TAILORED CHASSIS.

iX

Focus: Customer added values – Best companion for long distance drives and best in class Driving Comfort.

MyModes & MyCar:
Integrating different driving modes into the general experience modes for the driver.

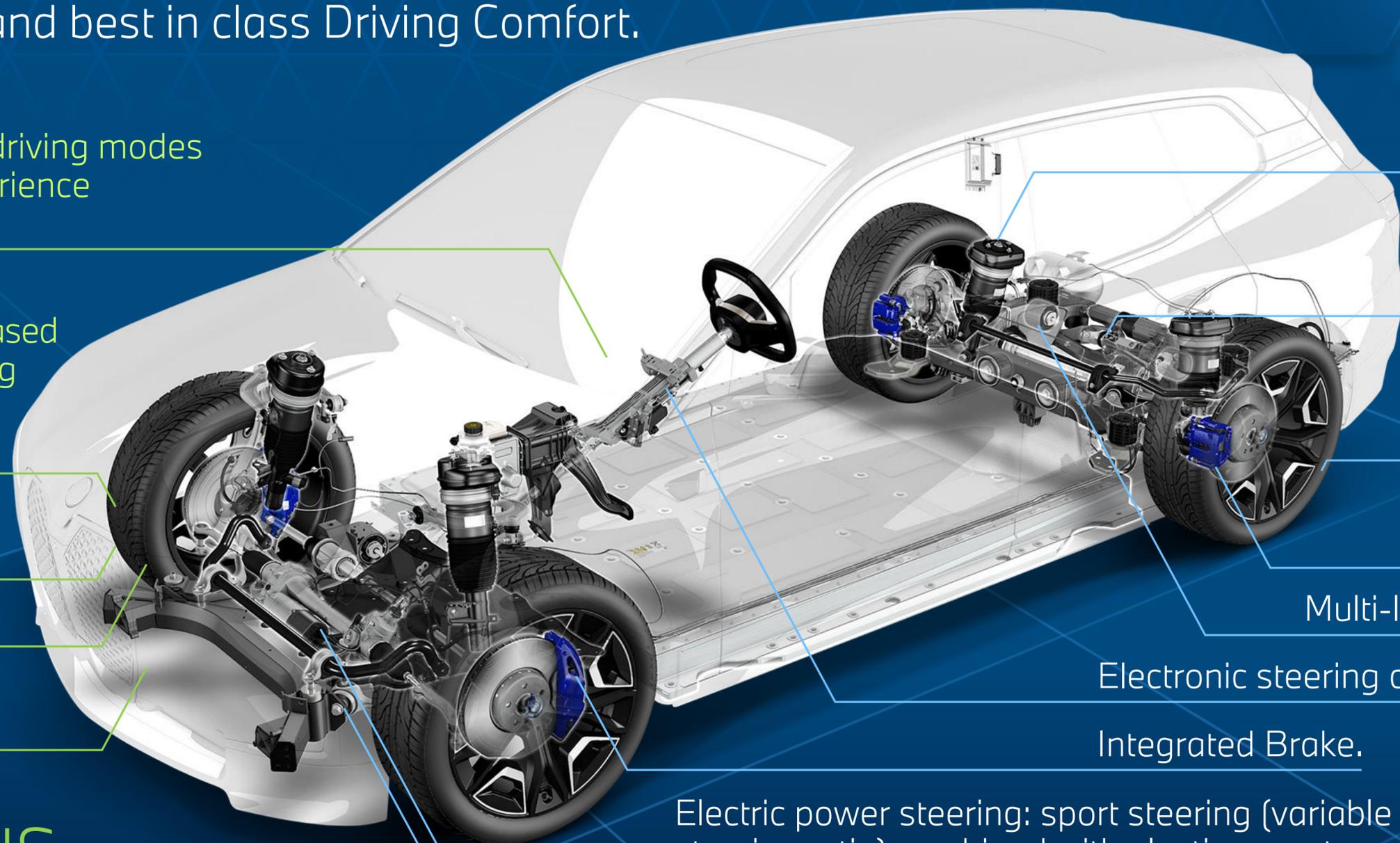
Vehicle-hold using the electric motors - increased comfort by constraining use of the friction brakes.

Digital tire diagnosis.

ARB-X.

NextGen hazard preview.

FUNCTIONS



2-Axle Air Suspension (optional).

Integral Active Steering (optional): variable steering ratio.

Air Performance Wheels & foam tires for 21" and 22" wheels (optional).

Painted brake calipers (optional).

Multi-link rear suspension.

Electronic steering column adjustments.

Integrated Brake.

Electric power steering: sport steering (variable steering ratio) combined with elastic mounts.

Double-wishbone front suspension.

CHASSIS

THE FIRST EVER BMW iX. AIR PERFORMANCE WHEELS.

iX

20" standard



21" option



22" option



21" option



Multiple conflicting targets during wheel development, especially for electric vehicles.



Crash
Optimum crash performance to avoid battery intrusion.



Weight
Lightweight construction to reduce inertia.



C_x
Low aerodynamic drag coefficient.



Acoustics
Suppression of acoustic problems through scaled stiffness levels and tailored natural frequencies.



Design
Elegant design in the customer's choice of color and finish.



THE FIRST EVER BMW iX. DRIVING DYNAMICS.

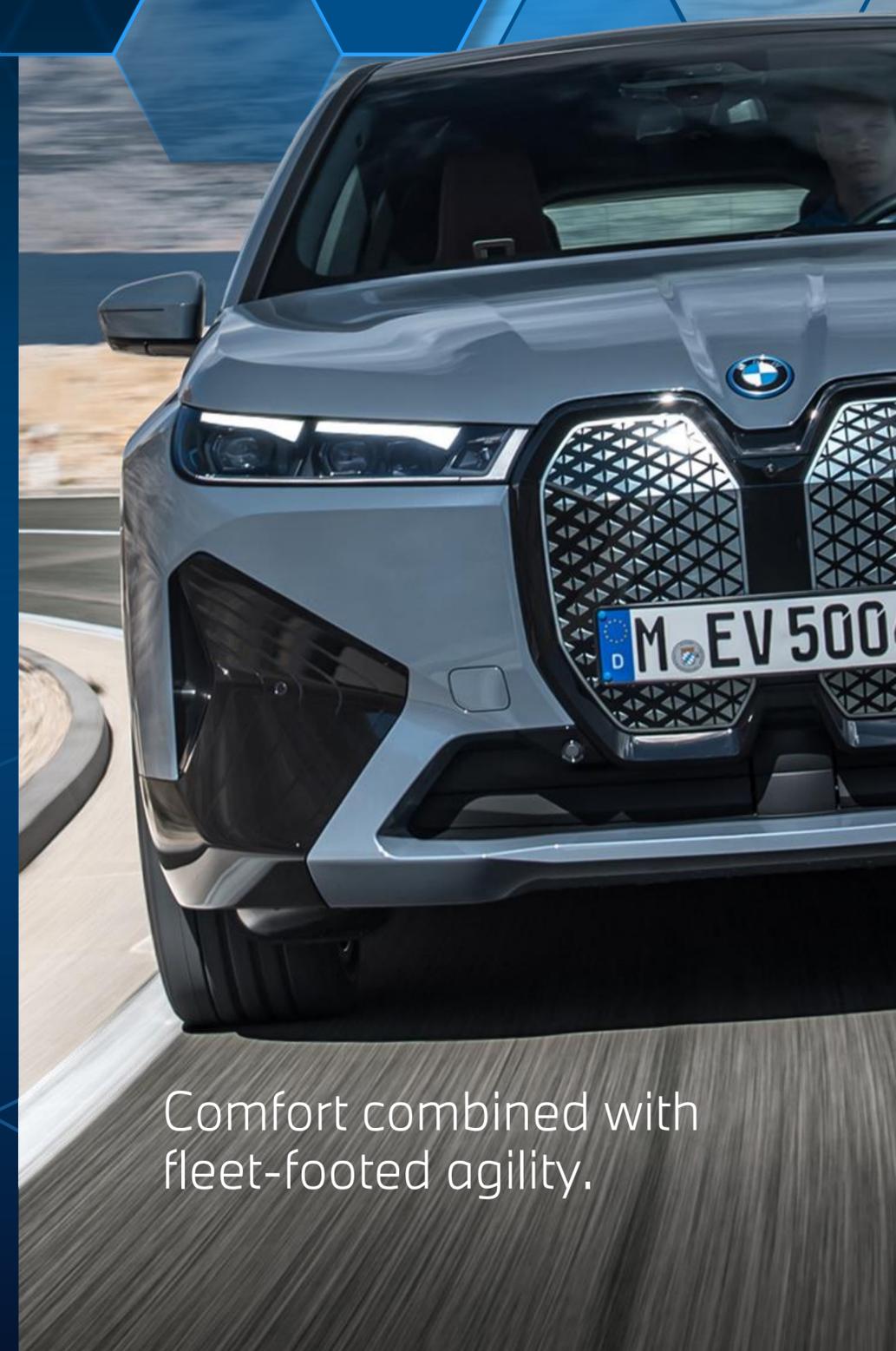
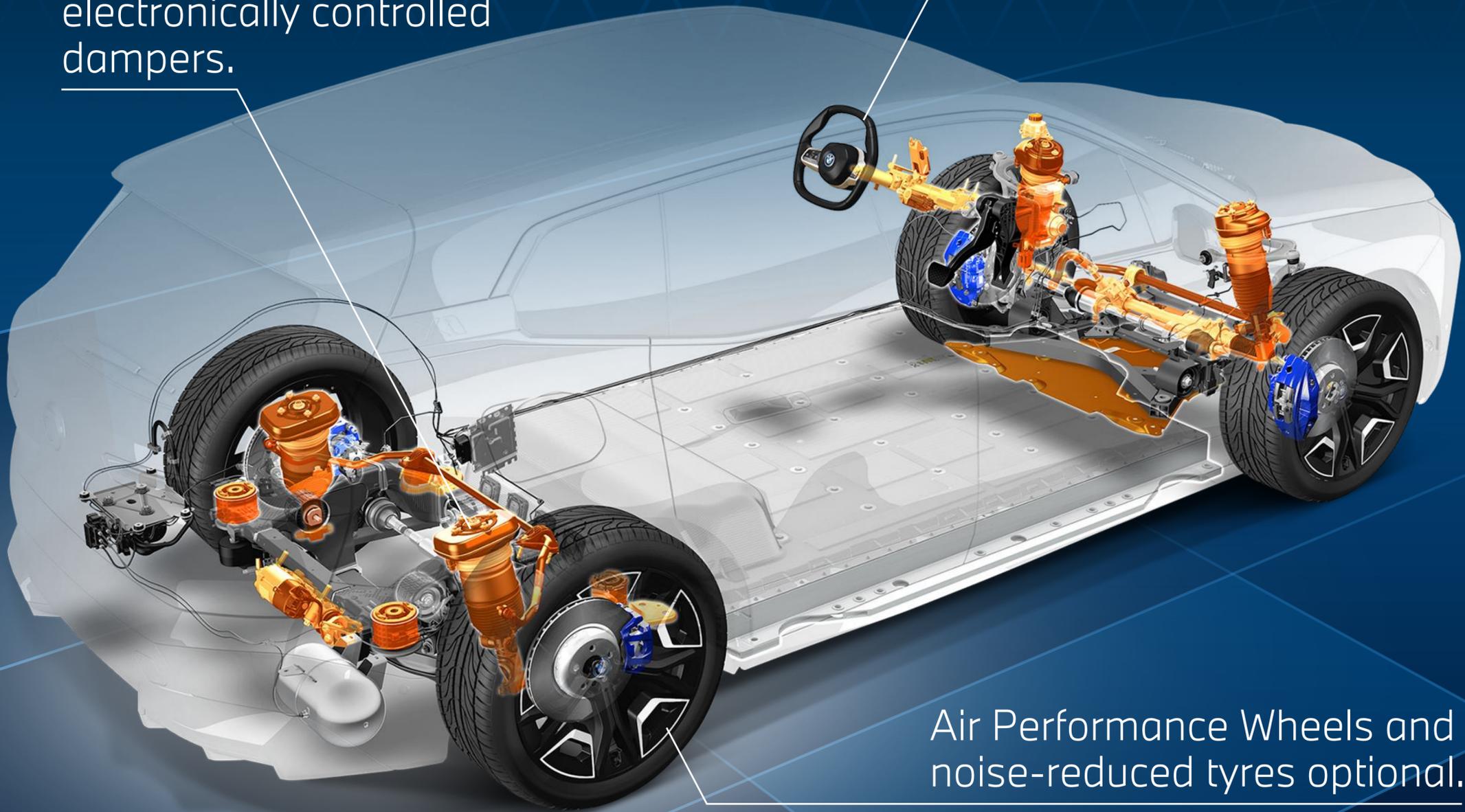
iX

Two-axle air suspension and adaptive suspension with electronically controlled dampers.

Integral Active Steering.

Air Performance Wheels and noise-reduced tyres optional.

Comfort combined with fleet-footed agility.



THE FIRST EVER BMW iX. DRIVING DYNAMICS.

Exceptional handling
and precise feedback.

High structural
rigidity.

Near-actuator wheel slip
limitation with xDrive for first time.

Low centre of gravity.

Balanced weight
distribution.

New My Modes widen scope for selecting vehicle settings.



Efficient



Sport



iX

THE FIRST EVER BMW iX. SUSTAINABILITY IN PRODUCT DESIGN AND MANUFACTURING.

iX

TÜVRheinland®

Validation

TÜV Rheinland Energy GmbH confirms that a critical review of the life cycle assessment (LCA) study of BMW AG, Petuelring 130, 80788 München for the following passenger car:

BMW iX xDrive40 – 2021 model year

was performed.

Proof has been provided that the requirements of the international standards

- ISO 14040:2006 + A1:2020: Environmental management – life cycle assessment – principles and framework
- ISO 14044:2006 + A1:2018 + A2:2020: Environmental management – life cycle assessment – requirements and guidelines
- ISO/TS 14071:2014: Environmental management – life cycle assessment – critical review processes and reviewer competencies: additional requirements and guidelines to ISO 14044

are fulfilled.

Results:

- The LCA study was carried out according to the international standards ISO 14040:2006 + A1:2020 and ISO 14044:2006 + A1:2018 + A2:2020. The methods used and the modelling of the product system correspond to the state of the art. They are suitable to fulfill the goals stated in the study. The report is comprehensive and provides a transparent description of the framework of the LCA study.
- The assumptions used in the LCA study especially fuel consumption based on the current WLTP (Worldwide harmonized Light vehicles Test Procedure) were verified and discussed.
- The assessed samples of data and environmental information included in the LCA study are plausible.

Review process and level of detail:

Verification of input data and environmental information as well as the check of the LCA process was performed in course of a critical data review. The data review considered the following aspects:

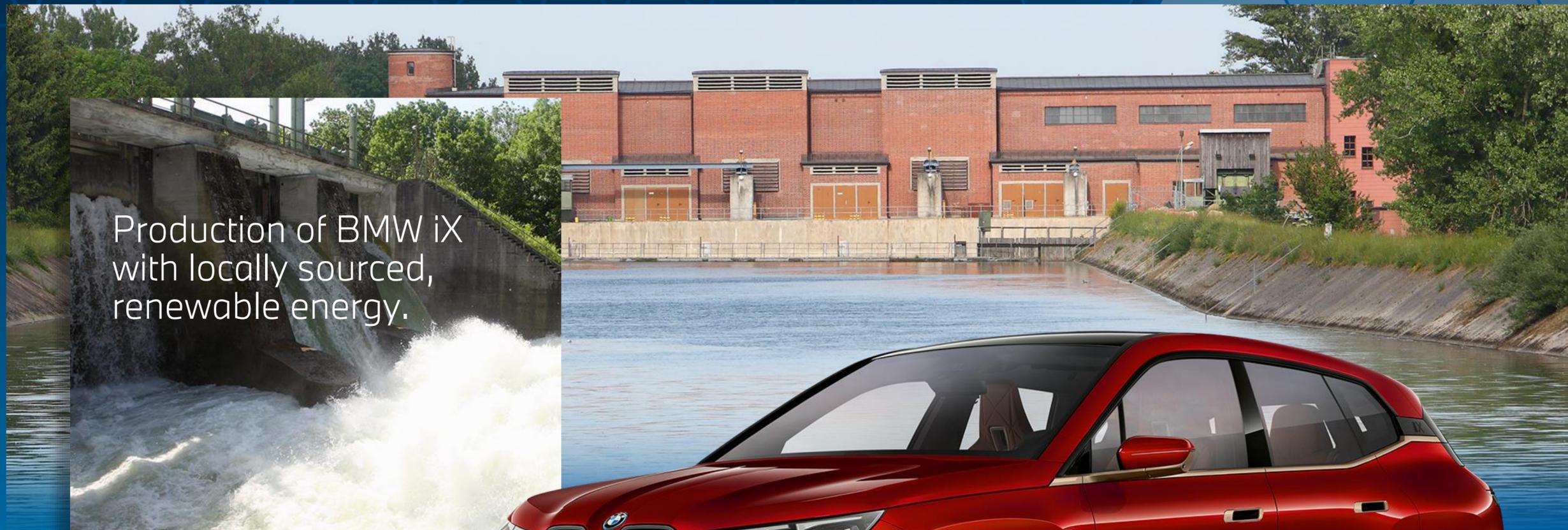
- Check of the applied methods and the product model.
- Inspection of technical documents (e.g. type approval documents, parts lists, supplier information, measurement results, etc.) and
- Check of LCA input data (e.g. weights, materials, fuel consumption, emissions, etc.).

Cologne, 02. September 2021

N. Heidelberg

Norbert Heidelberg
Department Manager for Carbon and Energy Services

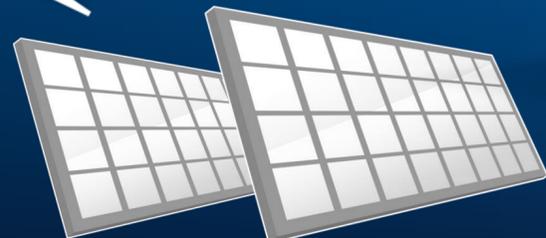
Responsibilities:
Sole liability for the content of the LCA rests with BMW AG. TÜV Rheinland Energy GmbH was commissioned to review said LCA study for compliance with the methodical requirements, and to verify and validate the correctness and credibility of the information included therein.



Lower Carbon Footprint.

up to **45%**
lower global warming
potential compared to
a conventional SAV.

Electricity from
renewable resources
for component and
vehicle manufacture.



THE FIRST EVER BMW iX. SUSTAINABILITY IN PRODUCT DESIGN AND MANUFACTURING.

iX



Careful material selection, high proportion of recycled materials.

up to **50%**
secondary aluminium.

up to **20%**
recycled thermoplastic.

60kg
of recycled plastic.

Raw materials production:
monitored, transparent, certified.

17%
less CO₂ emissions in the supply chain alone.



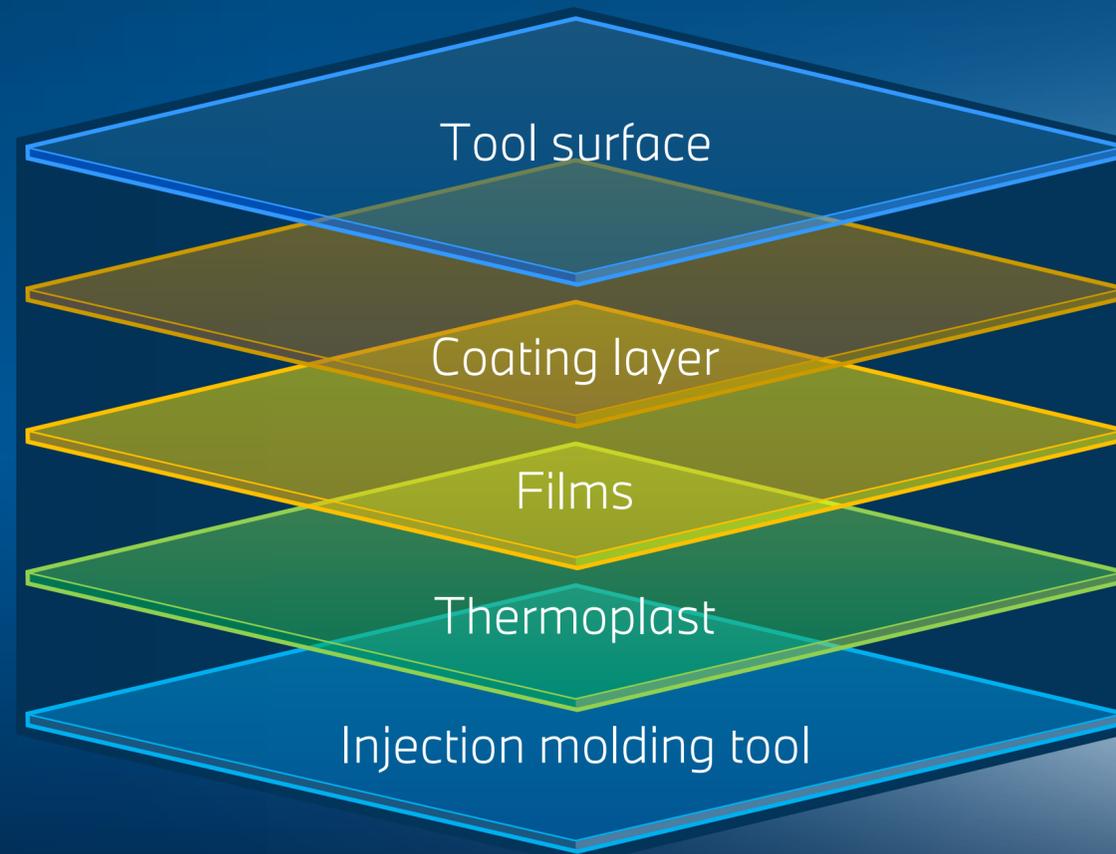
THE FIRST EVER BMW iX. SMART SURFACES – KIDNEY GRILLE WITH SELF-HEALING SURFACE.

iX



An additional polyurethane coating reduces the kidney grille's susceptibility to damage. The self-healing effect of its surface repairs minor scratches, for example – within 24 hours at room temperature or through a five-minute supply of warm air.

Overview of surface layer design.



THE FIRST EVER BMW iX
AND THE FIRST EVER BMW i4.



BMW GEN5
DRIVETRAIN AND
CHARGING.



BMW E-DRIVE COMPETENCE SINCE 2008 – IN FOUR GENERATIONS.

- ▶ In 2008 BMW Group started building its expertise in electrified drivetrains.
- ▶ Starting with the MINI e up to the current Portfolio of Plug-In Hybrids.
- ▶ Continuous Development of Efficiency, Dynamics and Sustainability.

BMW GEN1 AND GEN2

MINI e



BMW Concept
Active E



BMW GEN3

BMW i3



BMW GEN4

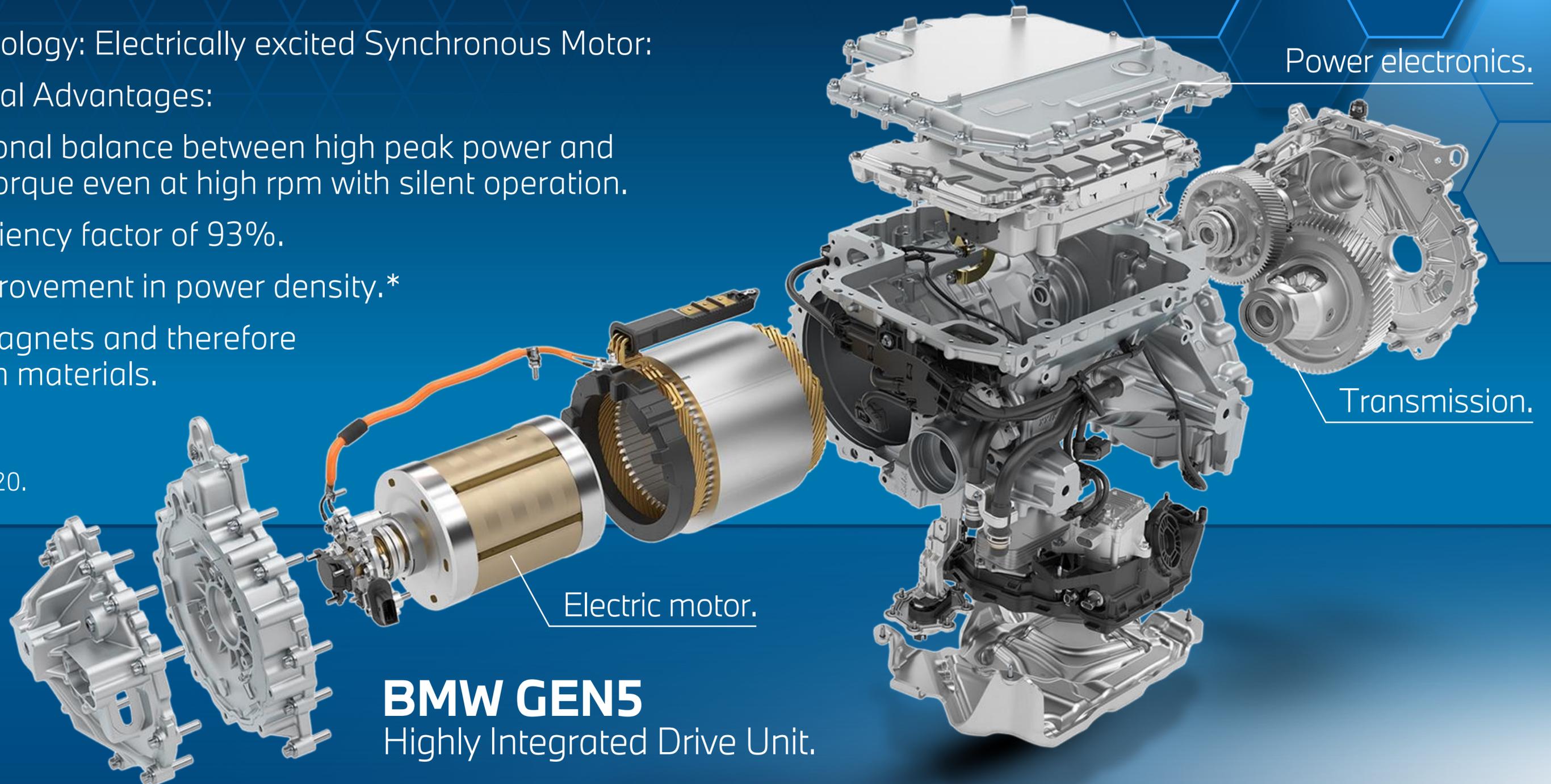
BMW 225xe | BMW 530e, BMW 530e xDrive | BMW 330e



BMW GEN5 HIGHLY INTEGRATED DRIVE UNIT "THE HEART OF THE DRIVETRAIN".

- ▶ ESM Technology: Electrically excited Synchronous Motor:
 - ▶ Conceptual Advantages:
 - ▶ Exceptional balance between high peak power and stable torque even at high rpm with silent operation.
 - ▶ High efficiency factor of 93%.
 - ▶ 40% improvement in power density.*
 - ▶ Avoids magnets and therefore rare-earth materials.

* Compared to
BMW i3 MY 2020.



BMW GEN5
Highly Integrated Drive Unit.



BMW GEN5 – FIRST BMW ALL-ELECTRIC xDrive.

▶ System Output: 385 kW.
Example: BMW iX xDrive50.

▶ Front axle electric motor 190 kW.

▶ Rear axle electric motor 230 kW.

▶ Near-actuator wheel slip control delivers outstanding traction and directional stability.

▶ Extremely quick power distribution.

▶ Maximum dynamics paired with maximum efficiency.

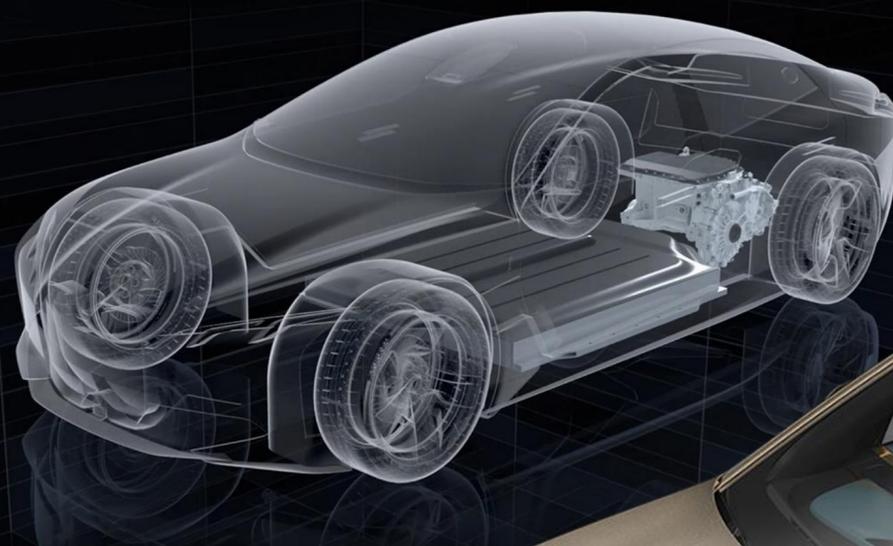
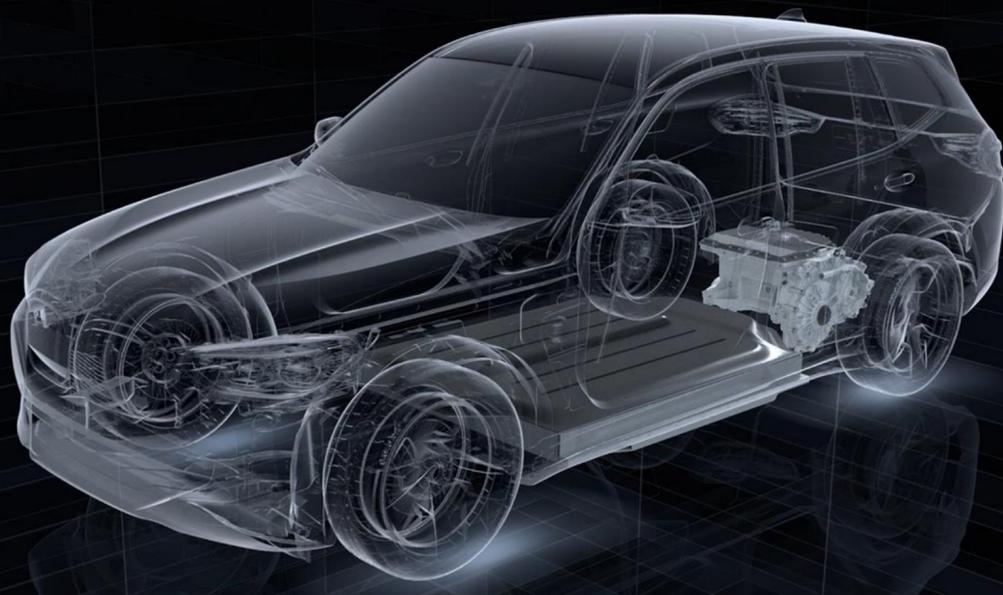
BMW GEN5

Highly Integrated Drive Unit.



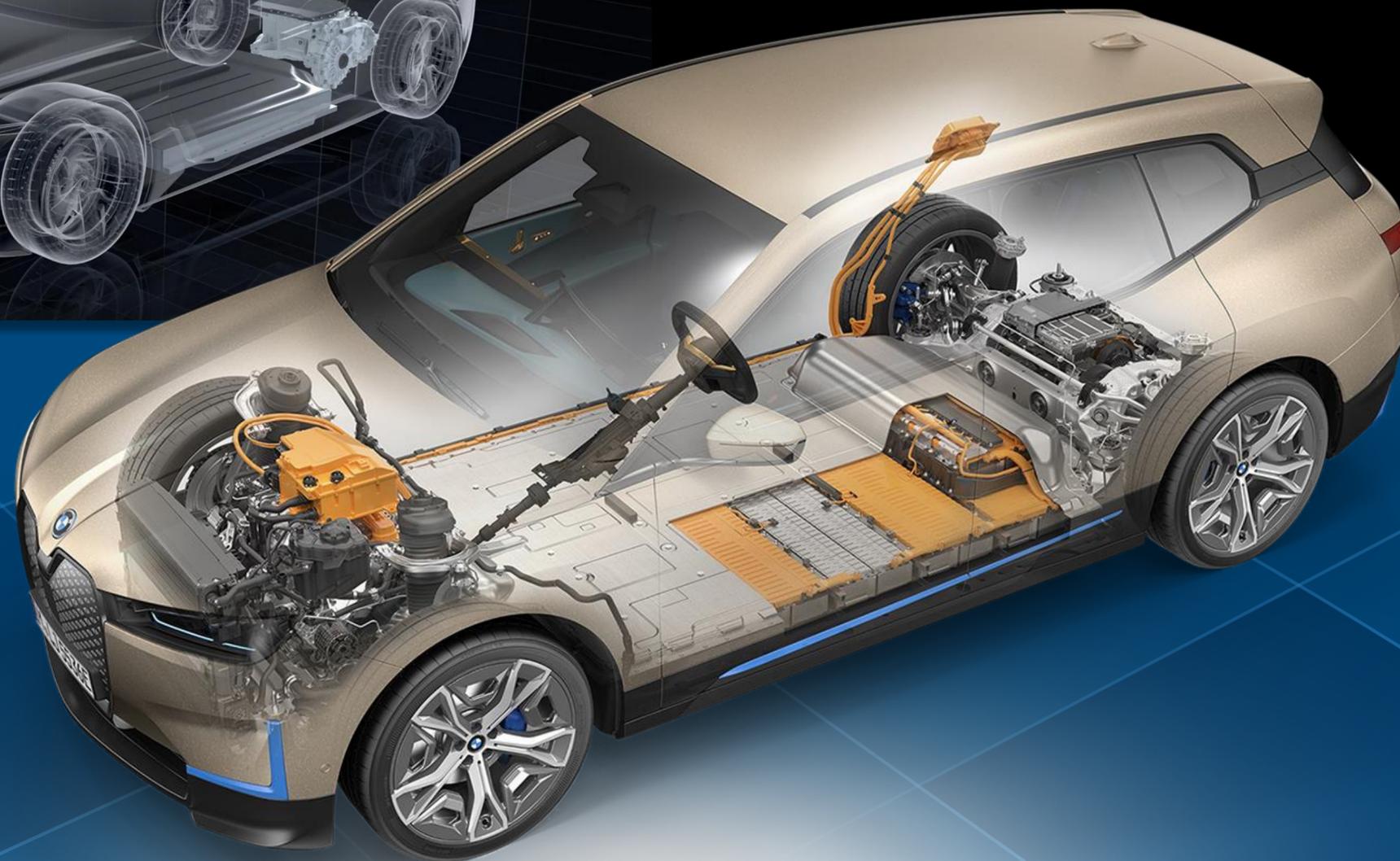
BMW GEN5: A HIGHLY INTEGRATED SCALABLE AND MODULAR SYSTEM.

▶ Example: highly integrated eDrive unit:
Different hardware configurations and different power electronics build the basis for the perfect modular system for all future BMW Group BEV.



▶ Example: BMW iX xDrive50:
eDrive 5.0 M220SF (190 kW) front unit. eDrive 5.1 O220SR (230 kW) rear unit.

▶ Enabling perfect Drivetrain / Vehicle combinations for our Gen5 BEV Portfolio Roll-Out.



BMW GEN5
Highly Integrated Drive Unit.



BMW GEN5: HIGH VOLTAGE BATTERY – MODULAR PERFORMANCE.

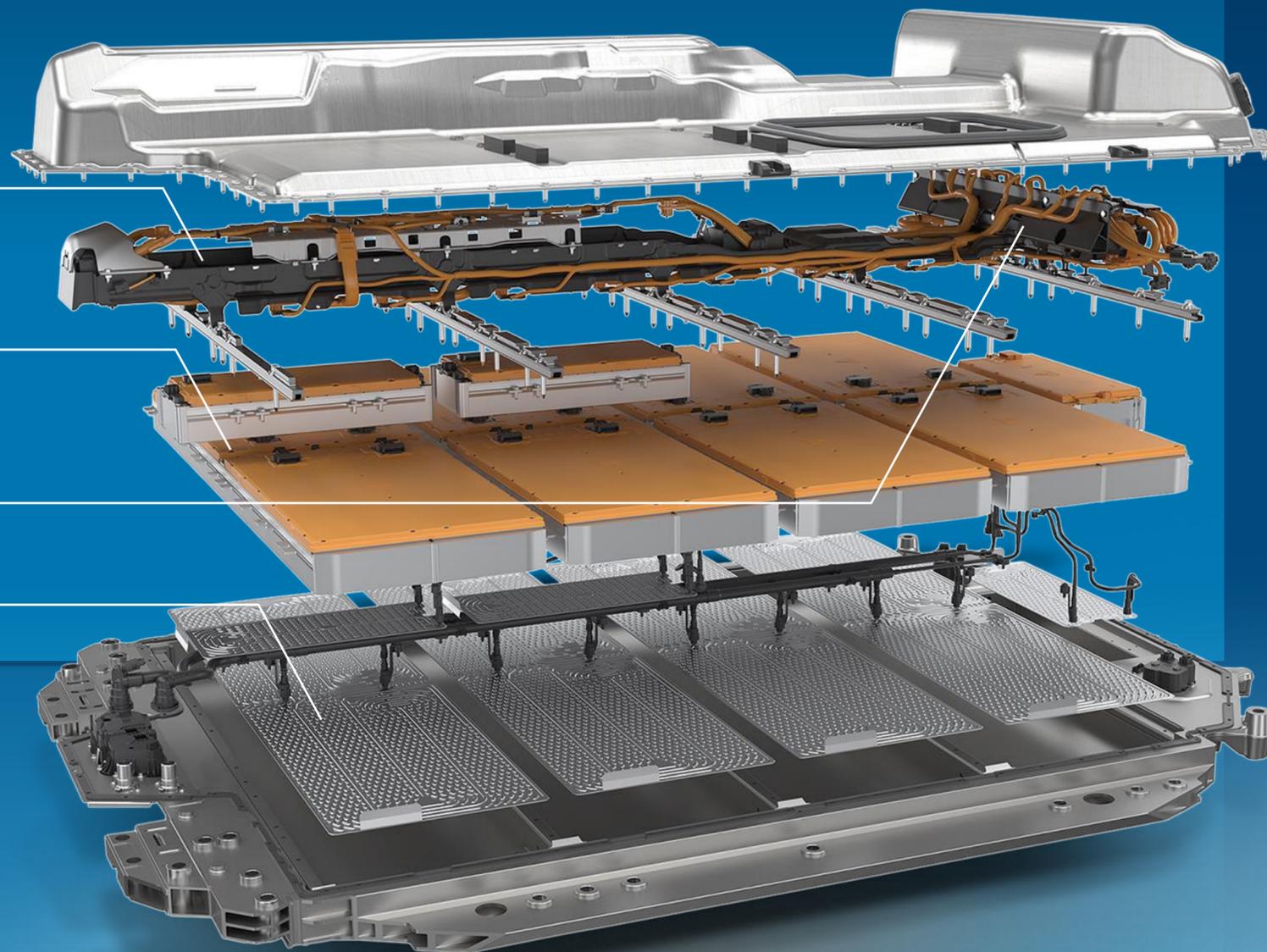
- ▶ Modular System: e.g. allowing with a 110mm cell a Gran Coupé silhouette for the BMW i4 or with a 140mm cell a SAV silhouette for the BMW iX.
- ▶ Lithium-ion technology with Prismatic cells with Nickel-rich cell chemistry.
- ▶ Each cell individually controlled and modules easy to exchange.

Cell-surveillance.

Cell modules.

Battery Management Unit.

Cooling plates.



BMW iX

Energy capacity

BMW iX xDrive40
76.6 kWh (gross)
71.0 kWh (net)

BMW iX xDrive50

111.5 kWh (gross)
105.2 kWh (net)

BMW i4

Energy capacity

BMW i4 eDrive40
83.9 kWh (gross)
80.7 kWh (net)

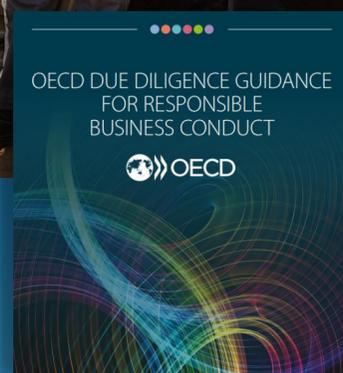
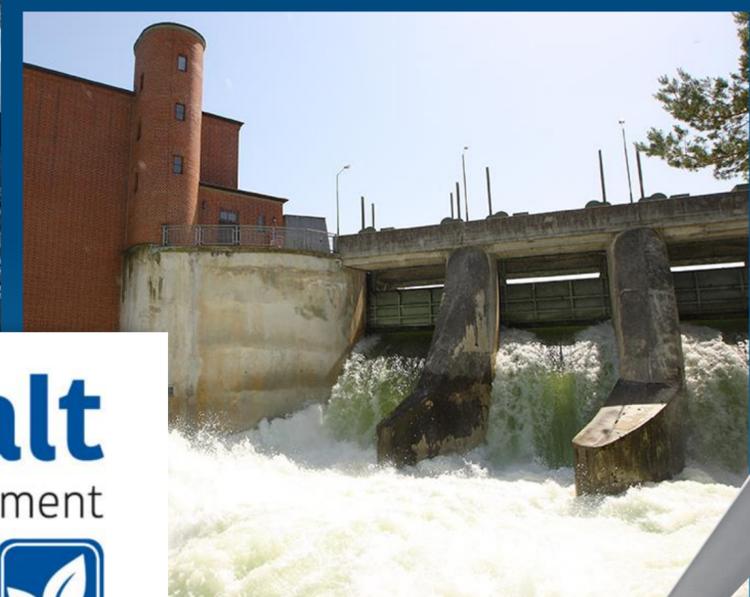
BMW i4 M50

83.9 kWh (gross)
80.7 kWh (net)

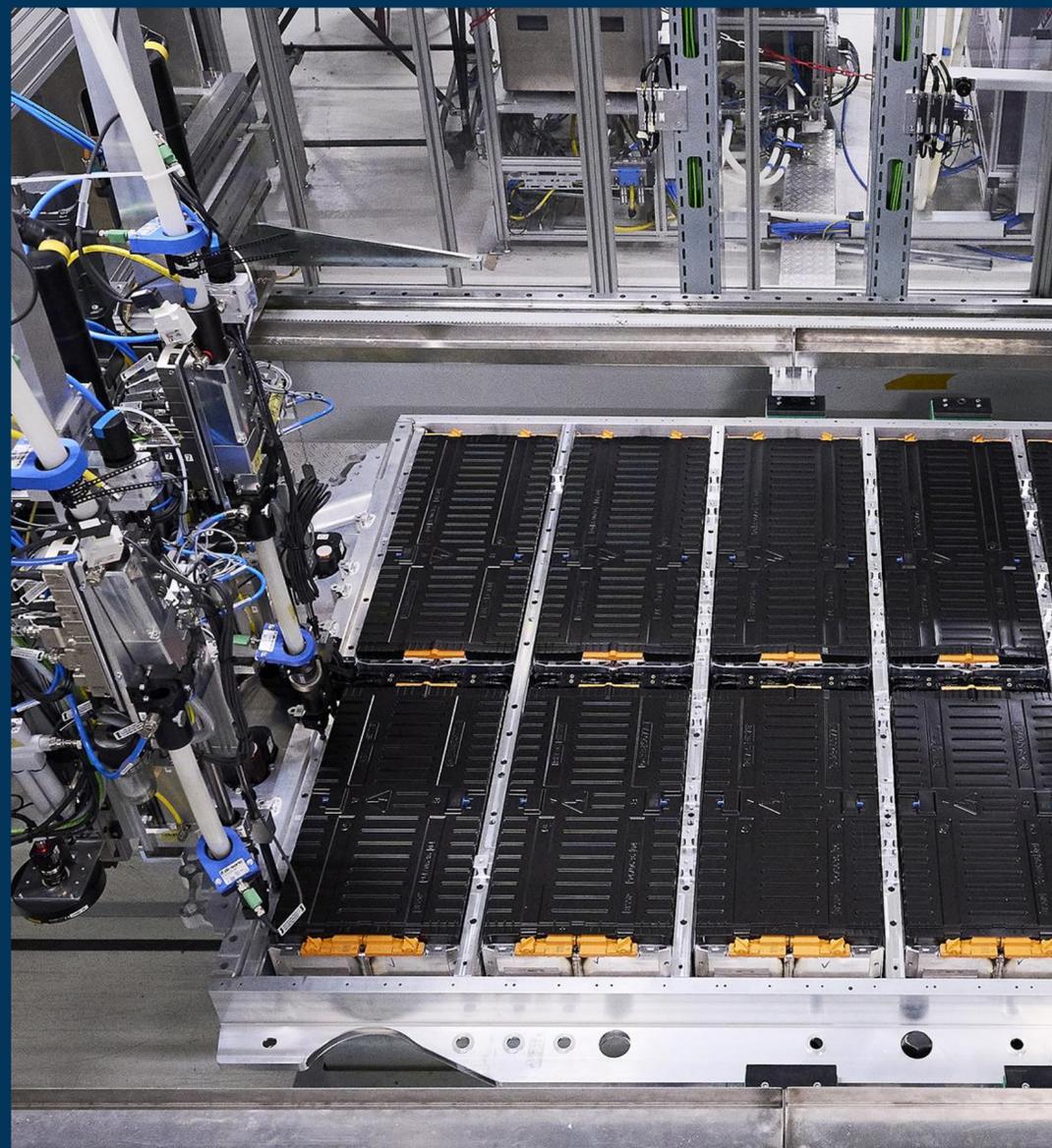
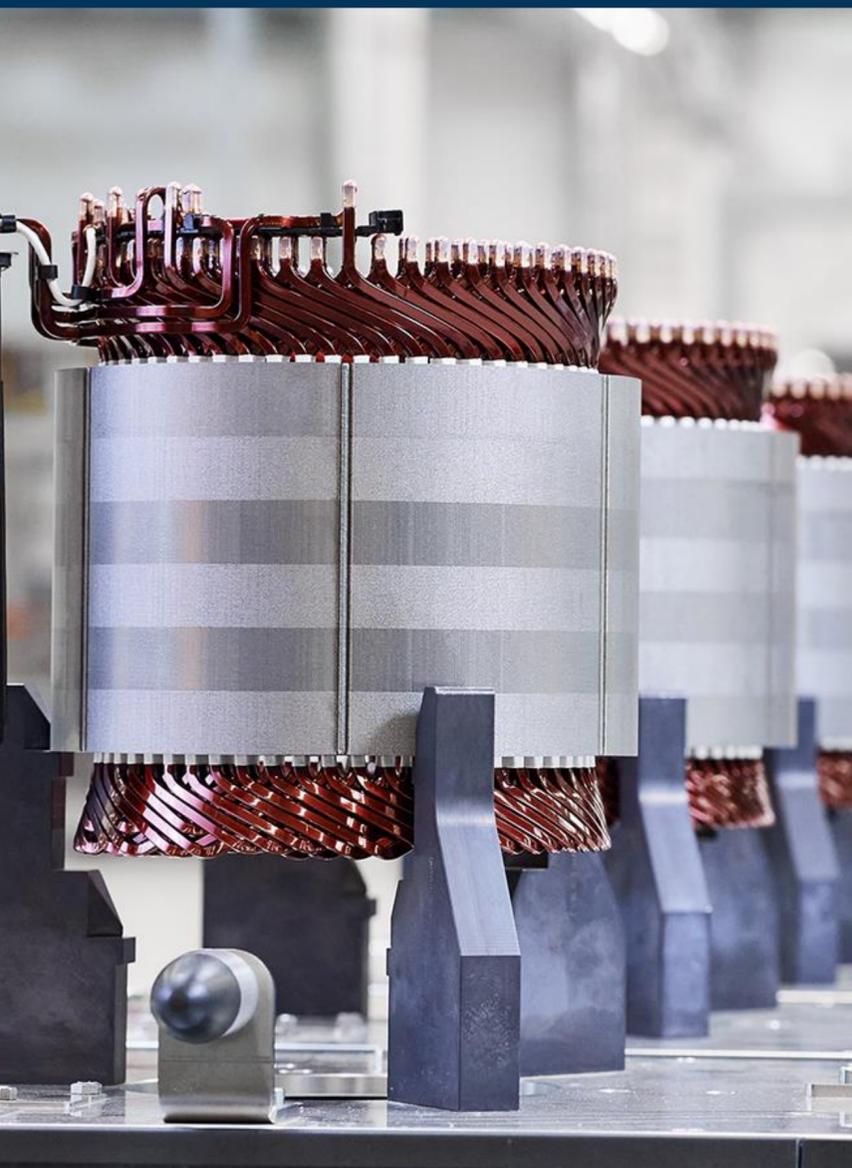


BMW GEN5: HIGH VOLTAGE BATTERY – SUSTAINABILITY FOCUSED.

- ▶ BMW steered and controlled Cobalt and Lithium sourcing.
- ▶ CO₂-free production of battery cells - only using green power.
- ▶ Our target: use of more than 90% recycled Nickel, Cobalt and Aluminium by 2030.



BMW GEN5: DEVELOPED BY BMW AND MADE BY BMW.



+TL018-MB01-BG10

BMW GEN5: SMART DRIVETRAIN.

► Adaptive or adjustable recuperation of braking energy increases efficiency enabling one-pedal feeling and coasting function depending on the traffic situation.



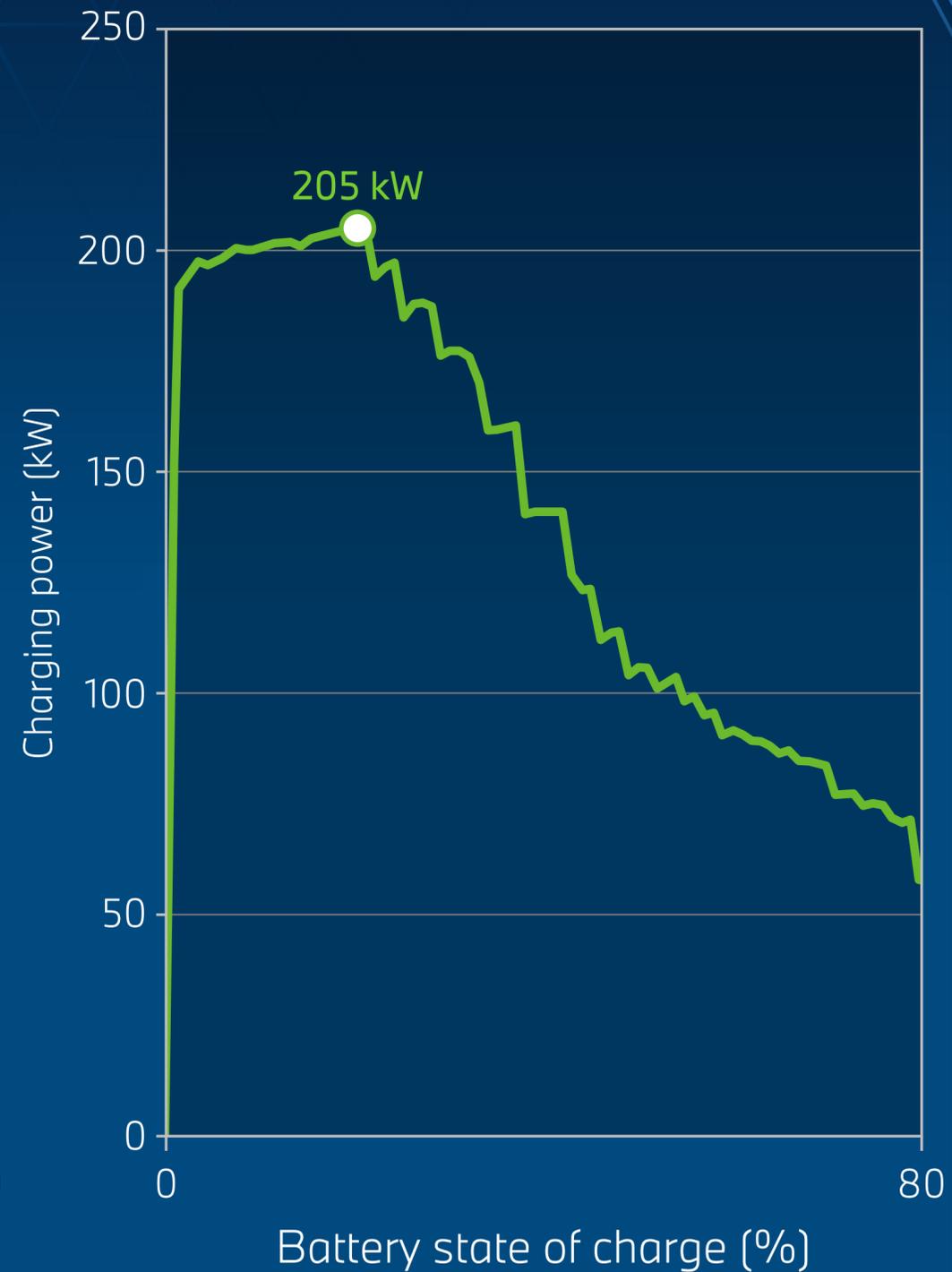
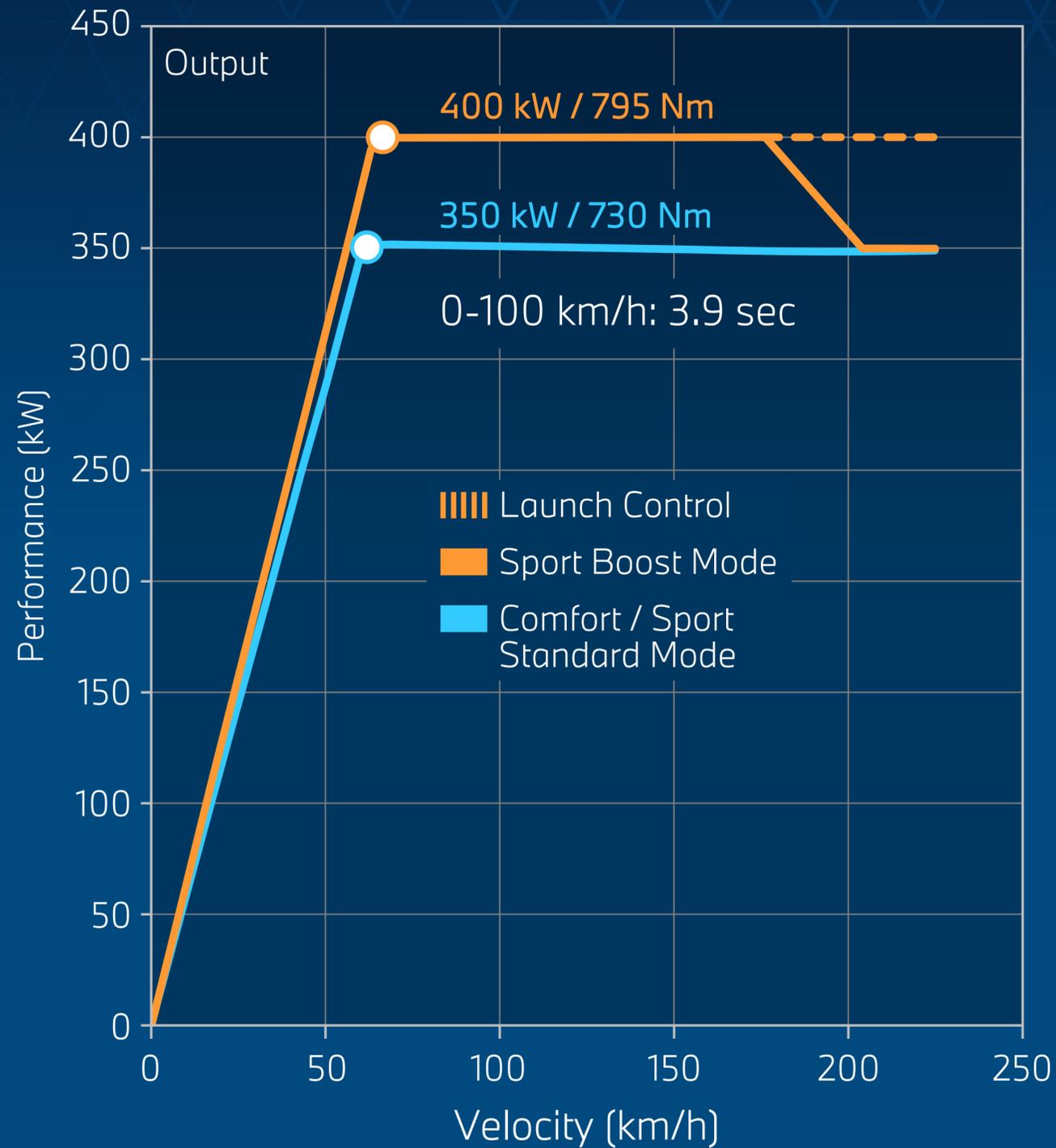
- High recuperation performance:
 - up to 195 kW for the BMW i4 M50.
 - up to 208 kW for the BMW iX xDrive50.



D Adaptive Recuperation.
B One Pedal Operation.



THE BMW i4 M50. PERFORMANCE AND CHARGING.



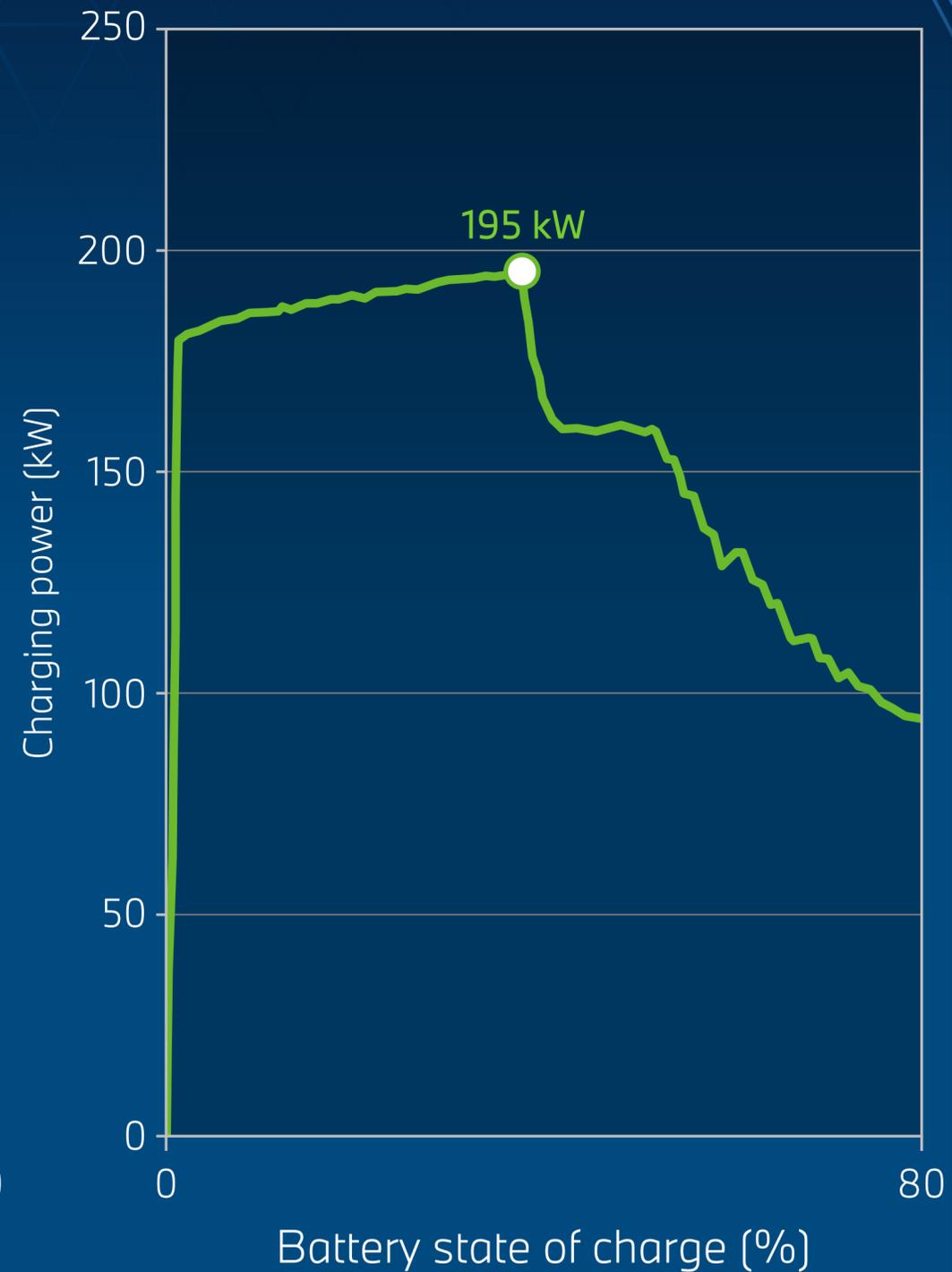
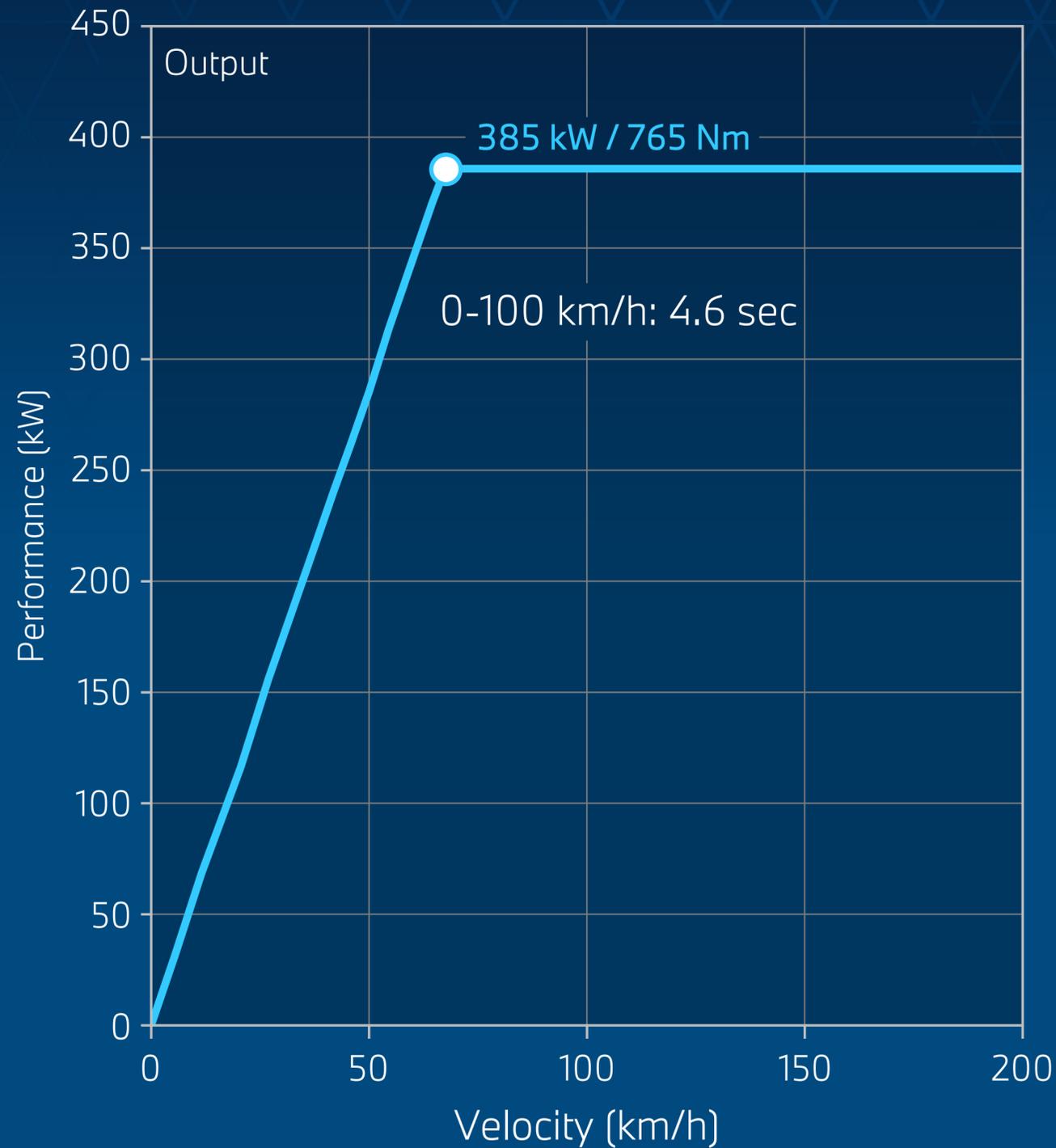
BMW i4 eDrive40 -
Charging duration

10 mins high-power
charging (DC):
+ 164 km range

10% - 80% high-
power charging (DC):
31 mins



THE BMW iX xDrive50. PERFORMANCE AND CHARGING.



BMW iX xDrive50 - Charging duration

10 mins high-power
charging (DC):
+ 150 km range

10% - 80% high-
power charging (DC):
35 mins



THE FIRST EVER BMW iX
AND THE FIRST EVER BMW i4.



BMW CHARGING.



BMW CHARGING – OFFERS FOR EVERY CUSTOMER USE CASE.

- BMW Charging: The central part of our E-Mobility strategy.
- Charging at home or in public: BMW Charging offers tailor made premium solutions – from the very beginning.



- BMW Charging at home with: Standard: flexible fast charger.



- BMW Public Charging: Standard: Mode 3 cable and BMW Charging Card.



- Optional: BMW Wallbox.



- Optional: Smart Partner Wallbox.



BMW PUBLIC CHARGING ALMOST ANYWHERE AND ANYTIME.



BMW Charging.
Active Tariff has been named "Testsieger".

Easy charging on the Go.
More than 200,000 charging points from over 500 providers in Europe already. More than 40,000 in Germany.



IONITY
IONITY High-performance Charging stations.



BMW CHARGING – A SEAMLESS CUSTOMER EXPERIENCE.

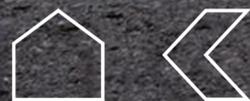
- Control of all Charging features in car and via My BMW App.
- Finding the right Charging Point and Timing your Charge.
- For the Daily Commute, Weekend Escape or long-distance Trip.



THE FIRST EVER BMW iX AND THE FIRST EVER BMW i4. BMW GEN5 DRIVETRAIN AND CHARGING.



- ▶ BMW “gets” charging and makes use of it as enabler for electric driving pleasure.
- ▶ BMW Charging offers tailor-made solutions and a premium User Experience catering for all customer needs.
- ▶ Charging is convenient, easy and as fast as needed – no matter where and when. Therefore, BMW iX und i4 drivers can experience maximum electric driving pleasure with their vehicles.



INTERNATIONAL MEDIA LAUNCH BMW iX AND BMW i4. THE ALL-NEW BMW iDrive.



INTERNATIONAL MEDIA LAUNCH BMW iX AND BMW i4. THE ALL-NEW BMW iDrive.

BMW iX FOCUS:

- First vehicle to launch with the all-new BMW iDrive.
- Broadest range of digital products and services.

BMW iDrive
THE INTELLIGENT
FUSION OF SENSING



THE ALL-NEW BMW iDrive. MODERN INTERIOR.

BMW Curved Display
Driver oriented Cockpit.

Clever Simplicity
Less switches, but not switchless.

Crafted Clarity
Sculptural Control Elements.

BMW iDrive Design.
Experience clarity and perfection.



THE ALL-NEW BMW iDrive. DRIVER ORIENTATION, PRECISION, INDIVIDUALISATION.

Empowers to become the ultimate driver.

Information display
Driver Orientation

► **Locate**

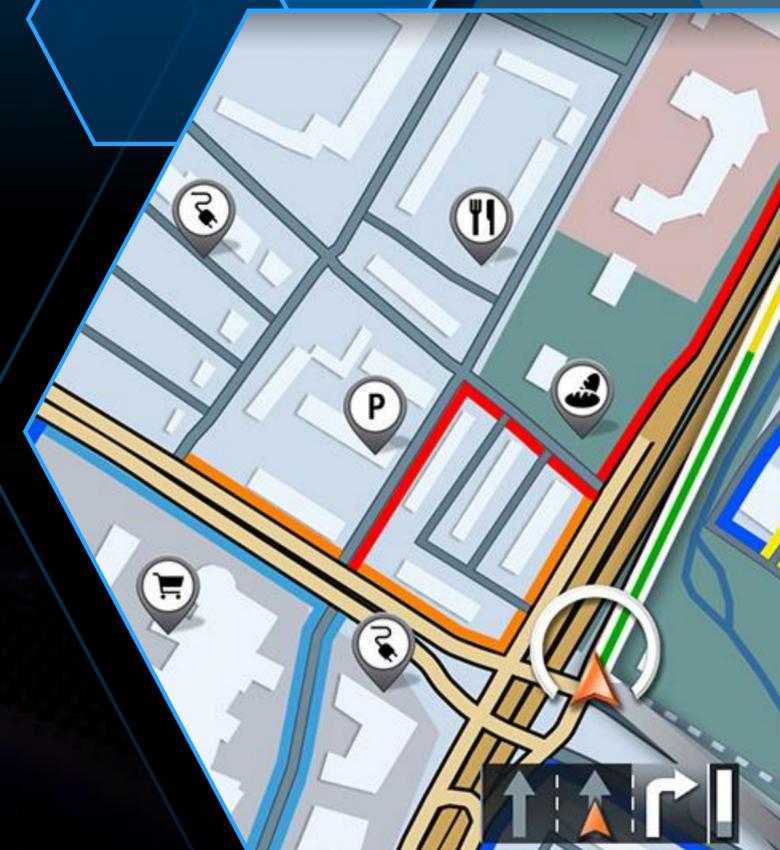
Head-Up Display
Driving Instructions

► **Act**

**Perfect
Symbiosis**

Control display
Information Overview

► **Inform**



THE ALL-NEW BMW iDrive. A NEW KIND OF DRIVER-VEHICLE RELATIONSHIP.

BMW Intelligent Personal Assistant.

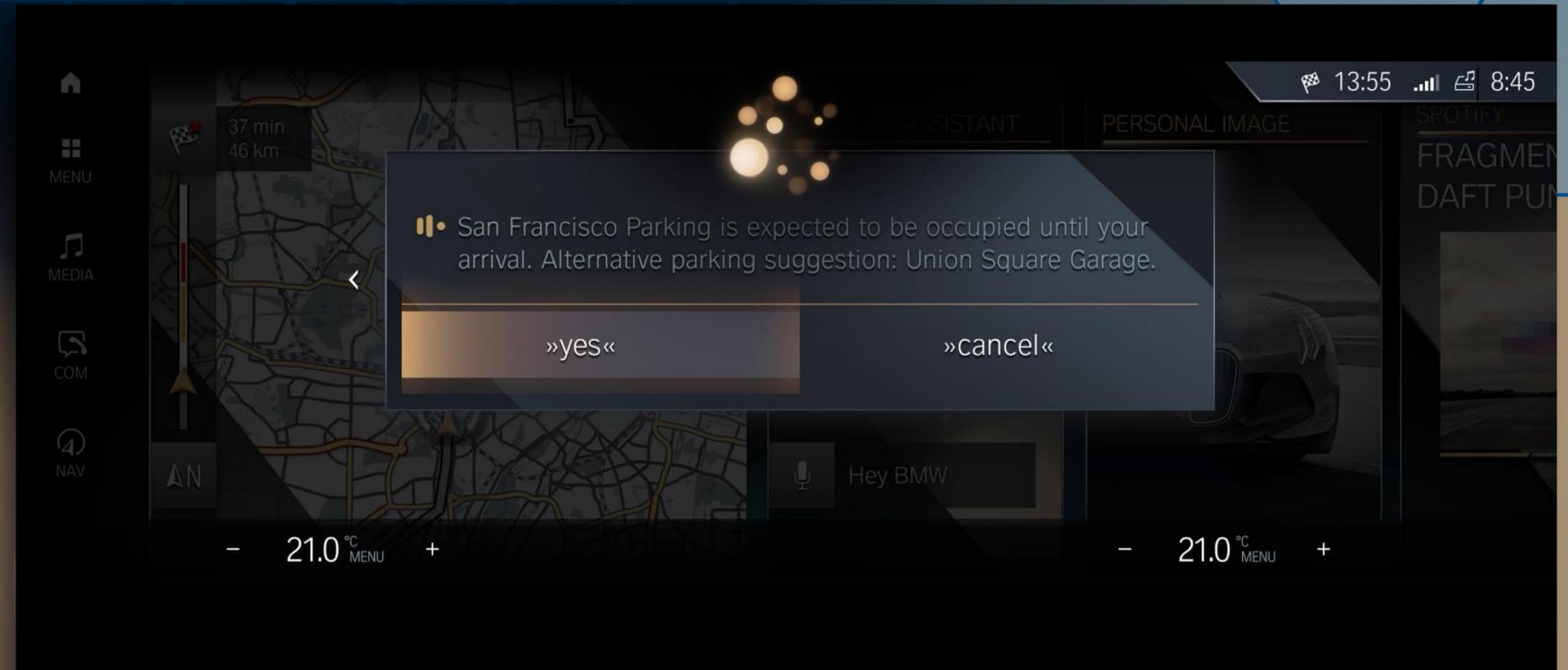
- Driver- and Co-Driver dialogue.
- Recognisable states of activity.
- Proactive suggestions.

Humanising
technology

Natural
interaction

Car
expert

"Hey BMW"



THE ALL-NEW BMW iDrive. MY MODES – AN IMMERSIVE EXPERIENCE.

Inspired by
Individuality – suited
for every preference.



Personal Mode

- Individual options.
- Balanced driving characteristics.
- Individual lighting settings.

Inspired by
Racing – colored
in Thrilling Orange.



Sport Mode

- Dynamic driving.
- Adjusted engine sound.
- Focused display layout.

Inspired by
Flowing water – with
reflections of sunlight.



Efficient Mode

- Efficient driving.
- Lowest possible energy consumption.
- Intelligent efficiency trainer.



GREAT ENTRANCE MOMENTS ENABLED BY ULTRA-WIDE-BAND TECHNOLOGY. WITH BMW DIGITAL KEY PLUS.

	3 metres	1.5 metres	Opening doors	Entering	Starting engine
Approaching	Lighting orchestration starts.	Vehicle unlocks automatically via car key or smartphone.	Surface heating starts and welcome animation begins.	Guides driver into the vehicle and prepares everything for the ride.	



Vehicle adjusts to personal settings.

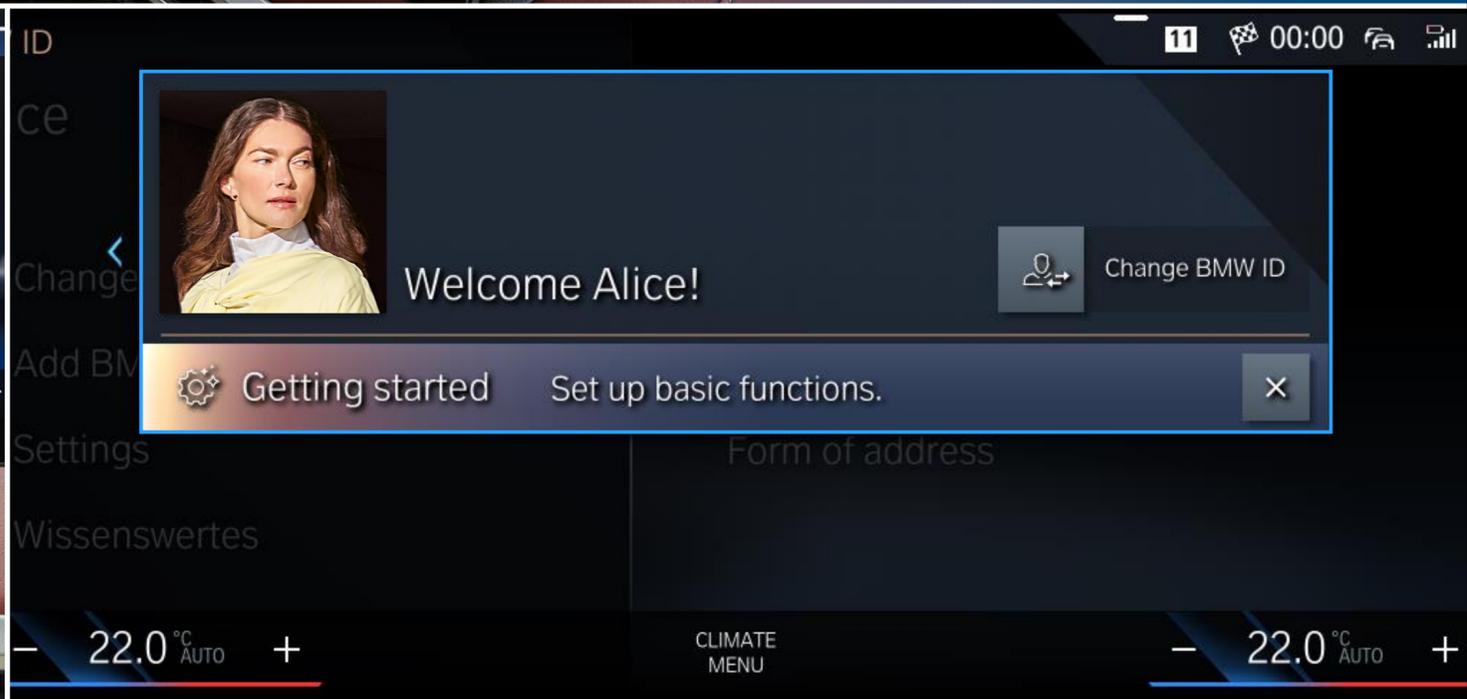
Personal Greeting.

PERSONALISATION THANKS TO BMW ID.

Easy to set up via QR code.

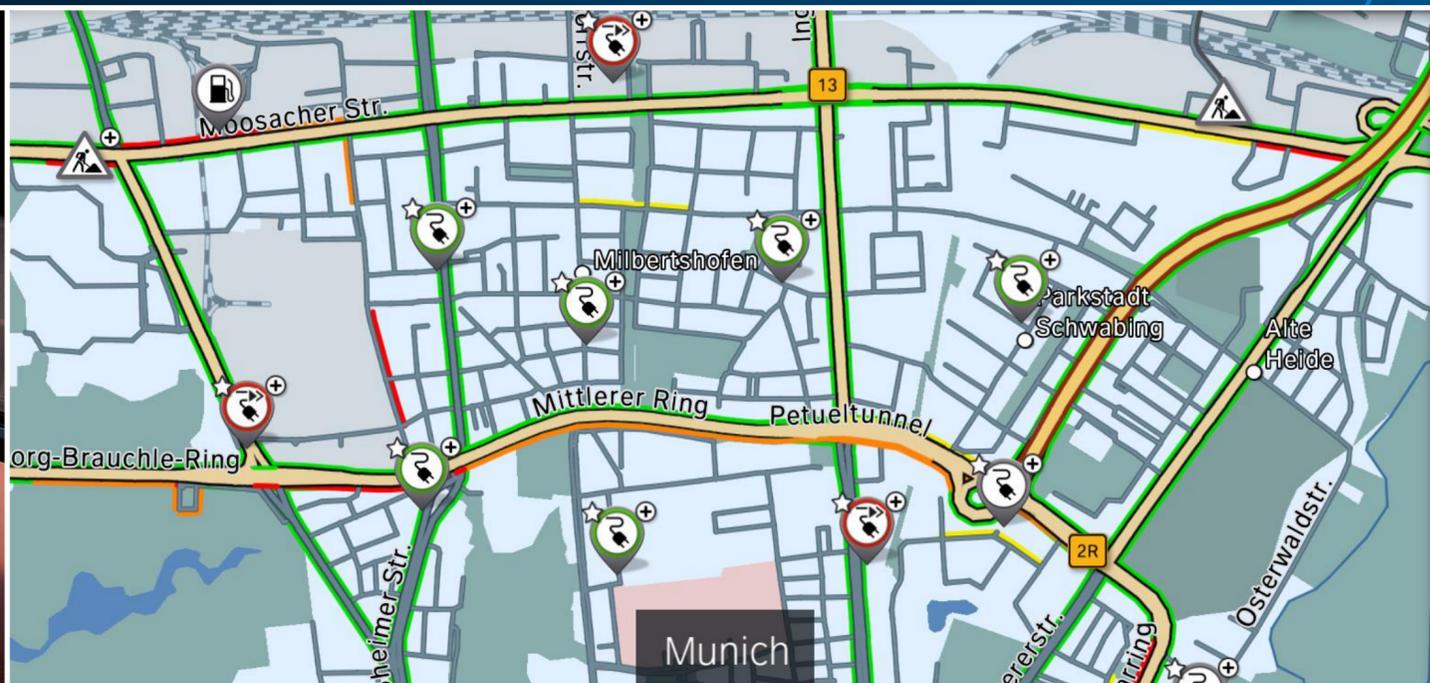


- Stores personalized vehicle settings. Seat, steering wheel position, exterior mirrors, navigation system, display layouts, shortcuts, driver assistance functions, etc.
- Transferrable between vehicles.



SUPERFAST AND SMART: THE NEW CLOUD-BASED BMW MAPS.

➤ "Learning Navigation" based on habits (BMW ID).



➤ State-of-the-art accuracy in calculation of ETAs.

➤ Color-code indication of charging station availability.

➤ Different Map views for optimal personalization.

➤ > 120 Mio. POIs, updated bi-weekly.



➤ Visualised electric range.



➤ Augmented view.



BMW MAPS. NAVIGATION WITH AUGMENTED VIEW.



MY BMW APP & CONNECTED CHARGING.



Start Climatization

Do you want to start climatization now?
Remote functions may take few minutes.

CANCEL **START**

10:56

Charging plan

~81%
Charging
264 mi

SENDING ...

UNLOCK CHARGING CABLE

100%
Charging target

~20:57
Ends at

80% / 266mi

Plugged in
Today 10:19

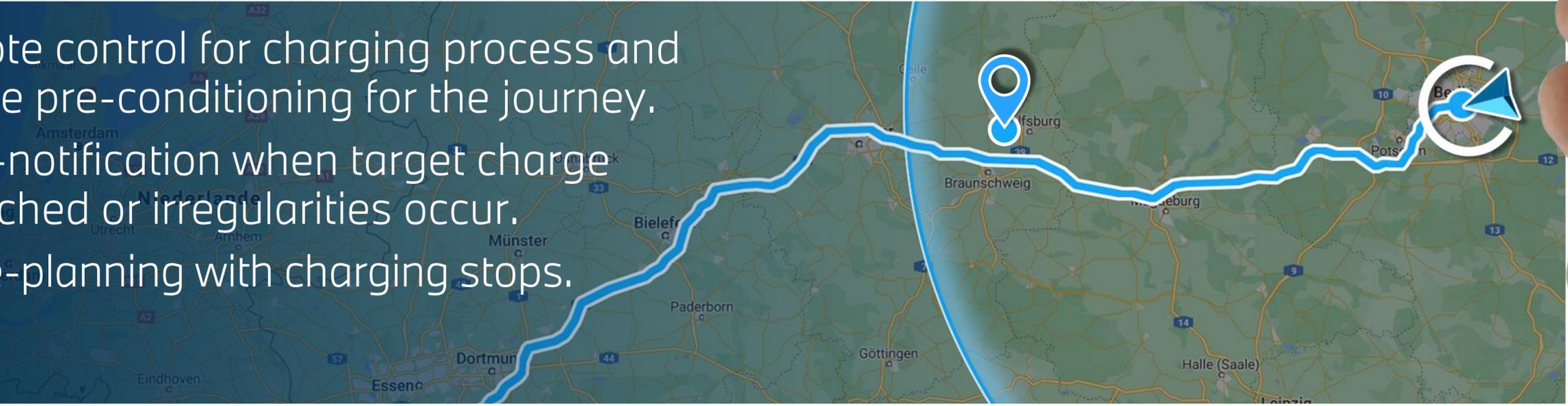
Charge start
Today 10:19

Charging...

Charging target

Sending to vehicle...

- Remote control for charging process and vehicle pre-conditioning for the journey.
- Push-notification when target charge is reached or irregularities occur.
- Route-planning with charging stops.



INTERIOR CAMERA.

➤ The Interior Camera captures precious moments with family and friends and offers peace of mind when the vehicle is parked.



➤ Remote Inside View.



➤ Snapshot.

SNAPSHOT

A screenshot of the car's infotainment system interface. The main display shows a snapshot of the car's interior, where a man is sitting in the driver's seat. The interface includes various controls and options:

- Top right: RTT, microphone, and speaker icons.
- Right side menu: Single photo, Smile, Self-timer (3 s), and Burst mode.
- Bottom left: EXPORT section with options: "Mit Fahrzeug-WLAN verbinden, um Aufnahme zu exportieren.", "Aufnahme exportieren", "Alle exportieren", and "Telefon verbinden".
- Bottom right: QR code for export and "QR-Code scannen, um Aufnahme zu exportieren." text.
- Bottom: Climate control interface with "OFF AUTO" and "KLIMA MENU" labels.

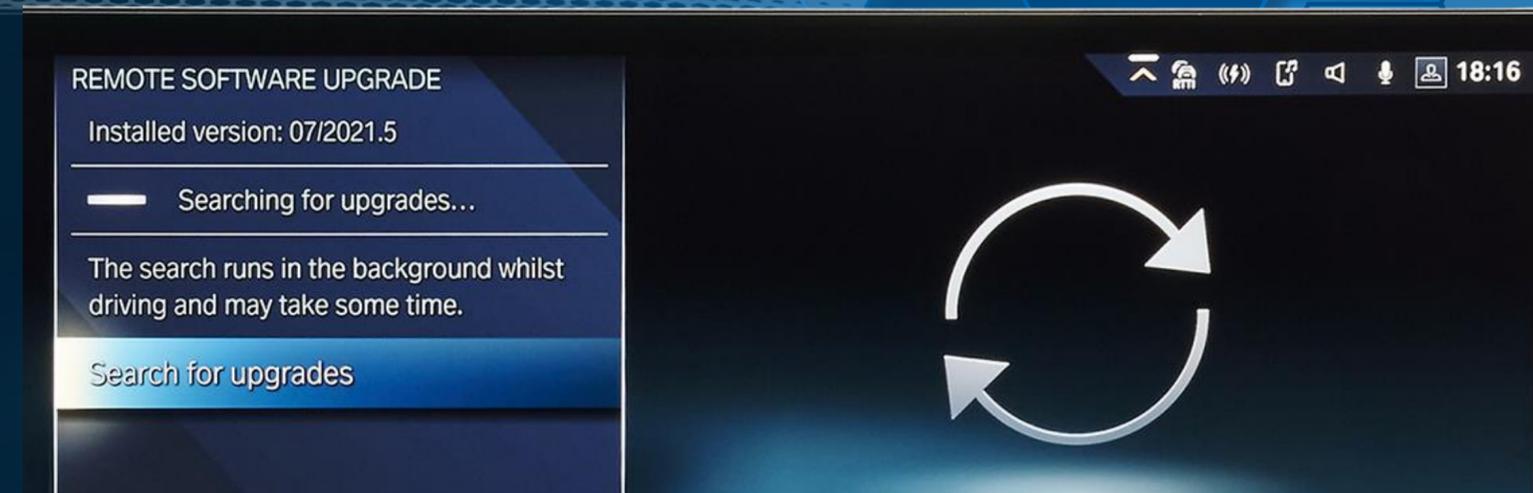
➤ Anti-Theft Recorder.



ALWAYS FRESH. WITH REMOTE SOFTWARE UPGRADE AND FUNCTIONS ON DEMAND.

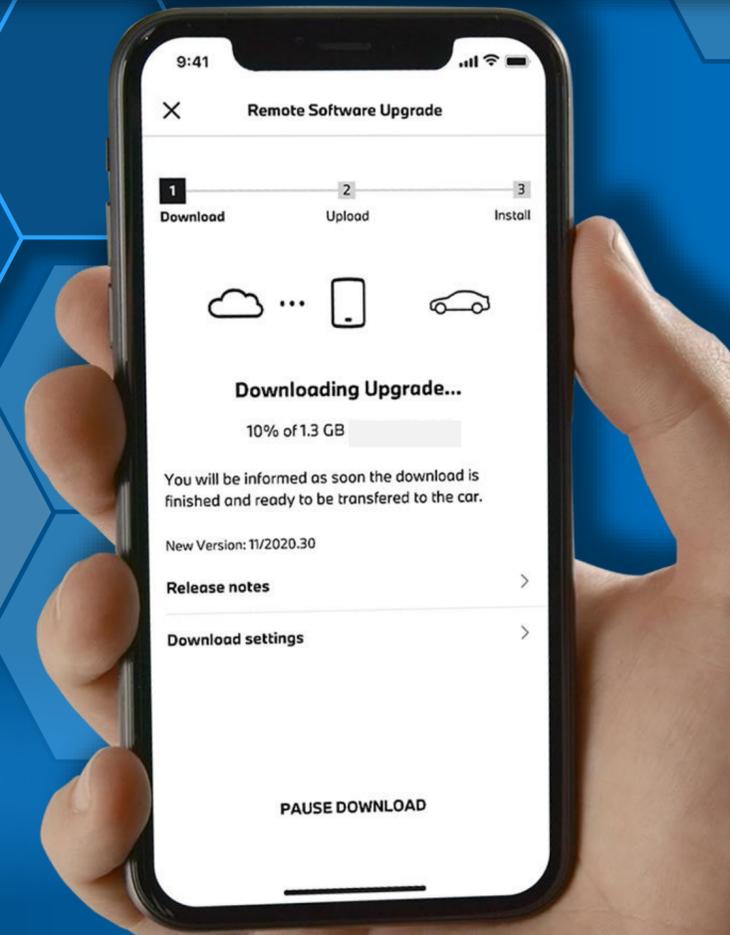
➤ Remote Software Upgrade.

- Release of new features and improvements over-the-air.
- Preparation in the background. Installation around 20 mins.
- Upgrade in 06/2021 for 1.3 Million vehicles with BMW OS 7.
- Target end 2021: largest over-the-air upgradeable fleet with > 2.5 million vehicles.



➤ Functions on demand.

- Subscription-based over-the-air activation of optional equipment.
- Features in Safety, Comfort, Infotainment, Driver Assistance, and more.



PERSONAL eSIM AND 5G. ENABLING STATE-OF-THE-ART CONNECTIVITY.

5G

➤ The BMW iX is the first premium vehicle with 5G connectivity.

- Personal eSIM turns the BMW iX into a fully connected device in the customer's digital ecosystem.
- eSIM connected to BMW ID.
- Activation via customer's mobile contract.
- Enhanced telephony and WIFI hotspot.



Availability varies by market.

SEAMLESS 3rd PARTY INTEGRATION. EXAMPLE: APPLE CAR PLAY®.

Apple Maps integration
in instrument cluster.

Steady, but minimalistic Home
Button for better interplay with iDrive.

Full use of CID Screen
for CarPlay experience.

"Hey Siri" or long press on the Push to Talk Button.



IN A NUTSHELL. DIGITAL PRODUCTS AND SERVICES.

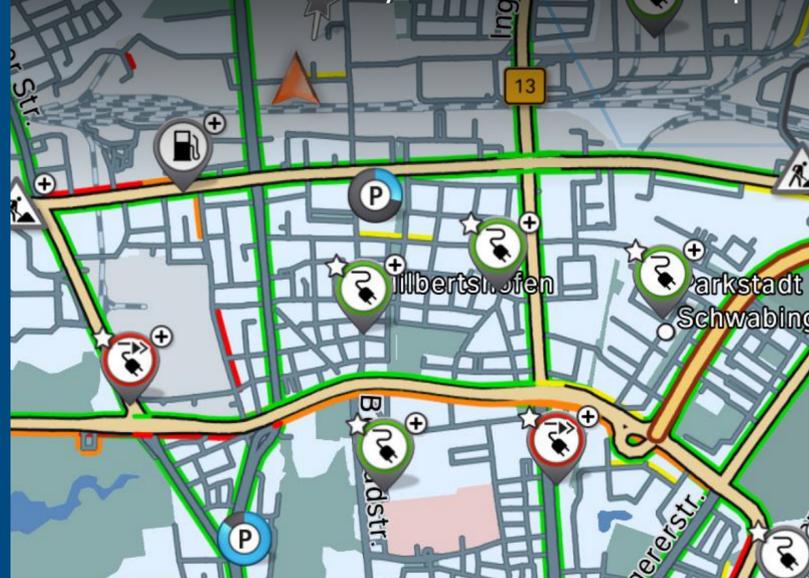
Great Entrance Moments
and BMW Digital Key Plus.



Personalisation
thanks to BMW ID.



Navigate, park, charge: New
cloud-based system BMW Maps.



Interior Camera:
Snapshot, Remote Inside
View and Theft recorder.



3rd party integration:
Seamless connection
with Apple Car Play,
Android Auto, Spotify,
Alexa, etc.



Always Fresh with remote
software upgrade and
Functions on Demand.



Personal eSIM
and 5G.



My BMW App with Charging
Management functions.



THE ALL-NEW BMW iDrive.

BMW iDrive
THE INTELLIGENT
FUSION OF SENSING



THE FIRST EVER BMW i4
AND THE FIRST EVER BMW iX.



BOOST

EASE

DRIVING EXPERIENCE.



THE FIRST EVER BMW iX AND THE FIRST EVER BMW i4. SHARED FEATURES.

BMW iX and BMW i4 shared features:

- Actuator contiguous wheel slip limitation for Rear Wheel Drive and All-wheel drive vehicles.
- Integrated brake – one compact, light-weight brake module.
- Air performance wheels – technology & portfolio.

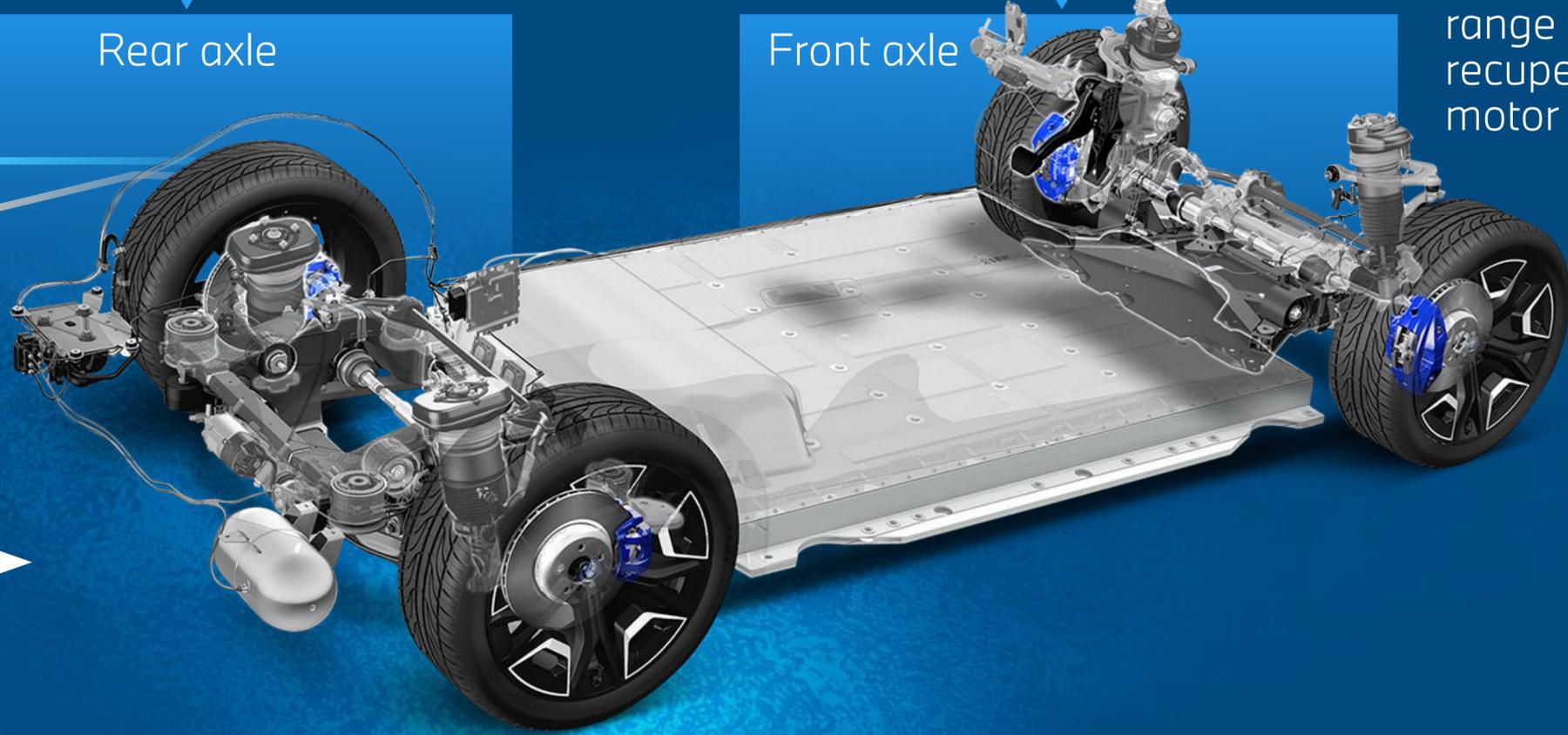
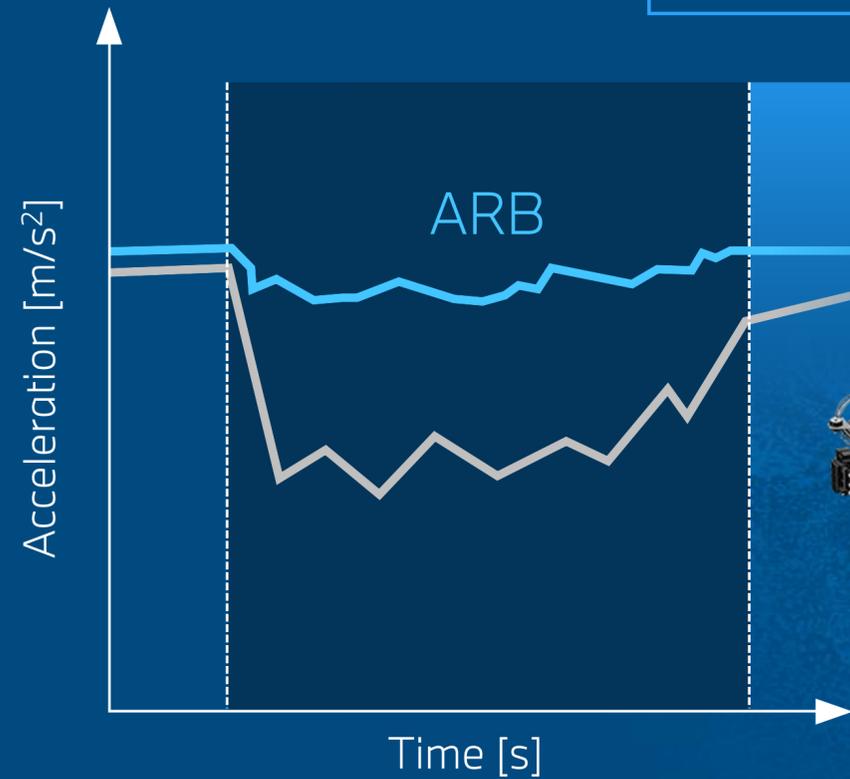
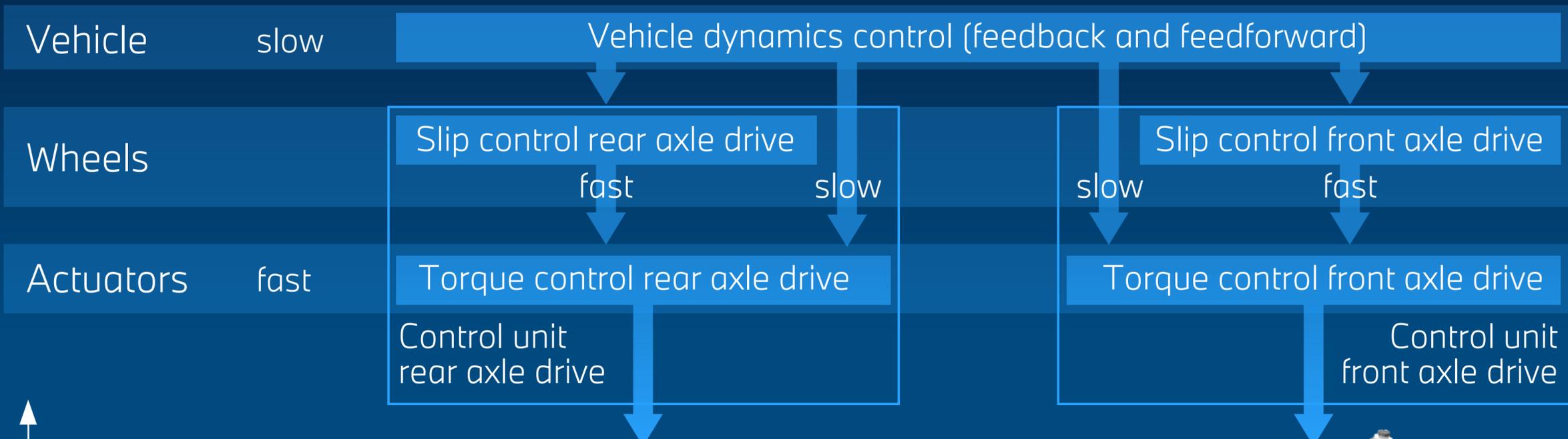
EASE



BOOST



ACTUATOR CONTIGUOUS WHEEL SLIP LIMITATION FOR REAR WHEEL DRIVE AND ALL-WHEEL DRIVE VEHICLES.



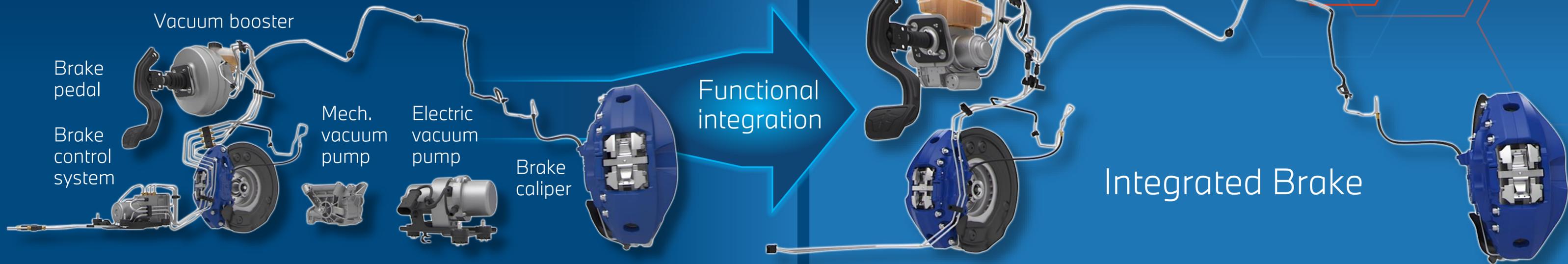
Improved recuperation:
Greater electric range via enhanced recuperation during motor braking.

Better traction:
ARB-X improves tire traction for all road conditions, resulting in better vehicle acceleration and gradeability.

THE FIRST EVER BMW iX AND THE FIRST EVER BMW i4 – INTEGRATED BRAKE.

Integration of the braking interface, force amplification and the brake control system (DSC) in one compact, light-weight brake module.

Components of a conventional brake system.



Advantages:

- Improved sportiness and sense of safety due to the short, direct pedal feel.
- Fast balancing between regenerative braking and friction braking → optimal recuperation and maximized driving stability.
- Higher levels of driving dynamics and controllability through swift and precise control of the brakes for vehicle stabilization.
- Shorter stopping distances during active driver-assistance functions, improving active safety.
- A consistent brake pedal feel is guaranteed. Regardless of recuperation.



THE FIRST EVER BMW i4 – AIR PERFORMANCE WHEELS. TECHNOLOGY & PORTFOLIO.

Advantages:

- Effective reduction of air turbulence in the area of the wheels.
- Compared to conventional alloy wheels, the weight reduced by around 15 percent.
- The innovative design combines optimized aerodynamic properties with the elegance of an aluminium rim in a V-spoke design.

BMW i4 M50 wheels.

18" standard



19" option



20" option



THE FIRST EVER BMW i4. THE WORLD OF BOOST.

BMW i4 focus:

- The ultimate driving machine.
- Long distance driving comfort.
- First ever BEV from BMW M.



BOOST



THE BMW i4 M50 CHASSIS.* THE FIRST ELECTRIC BMW M PERFORMANCE MODEL.



Additional precisely interlinked bracing elements for enhanced driving dynamics by increased longitudinal and torsional stiffness of the body structure.

Increased track width.*

- 26 mm front.
- 12 mm rear.

Gurney flap for reduced aerodynamic lift.

Rear axle with air springs.

Bracing elements for the rear axle.

37 mm lower center of gravity compared to BMW 3 Series.

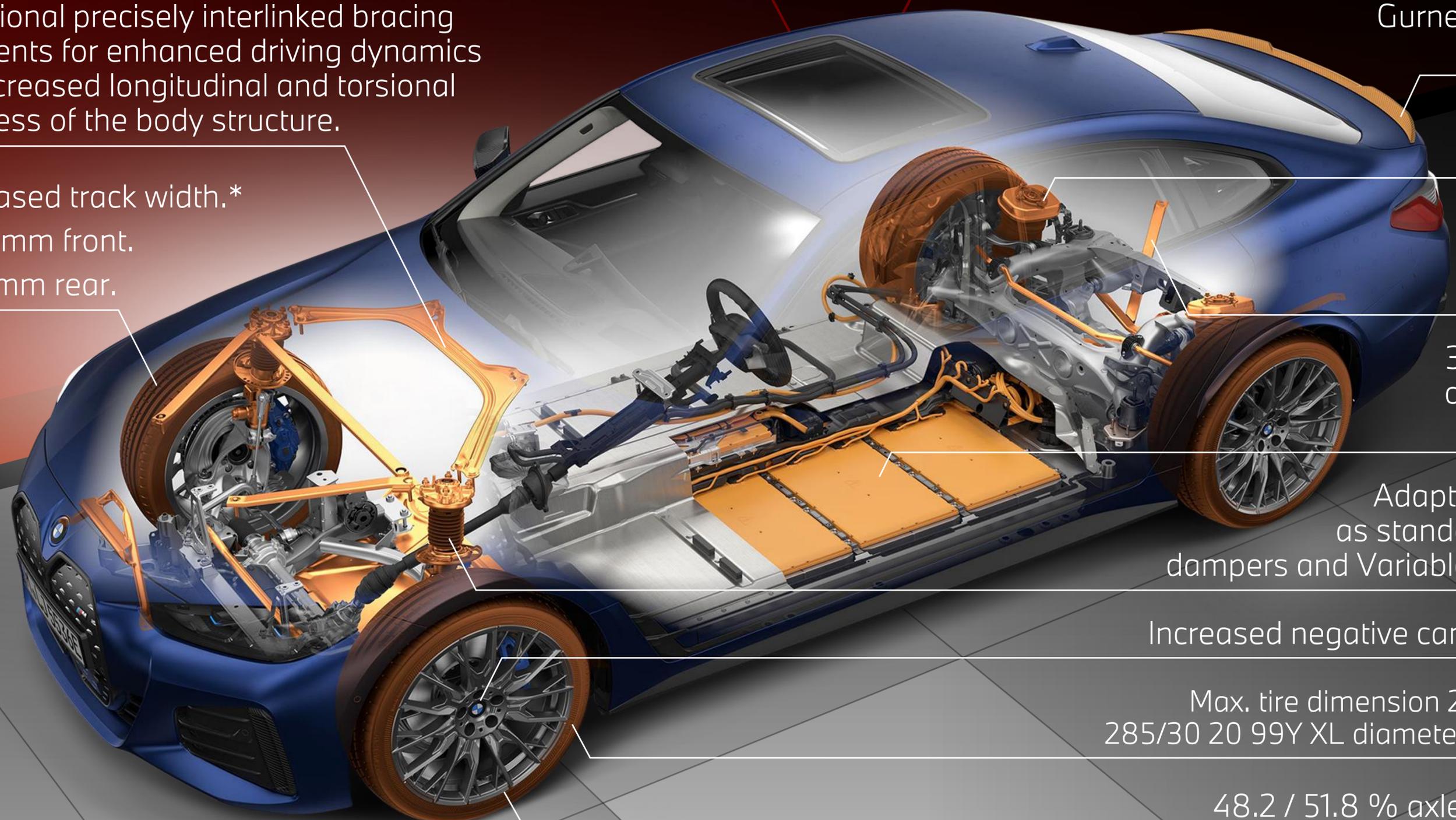
Adaptive M Suspension as standard including VDC dampers and Variable Sports Steering.

Increased negative camber at front axle.

Max. tire dimension 255/35 R20 97Y XL
285/30 20 99Y XL diameter line 680 HP tires.

48.2 / 51.8 % axle load distribution.

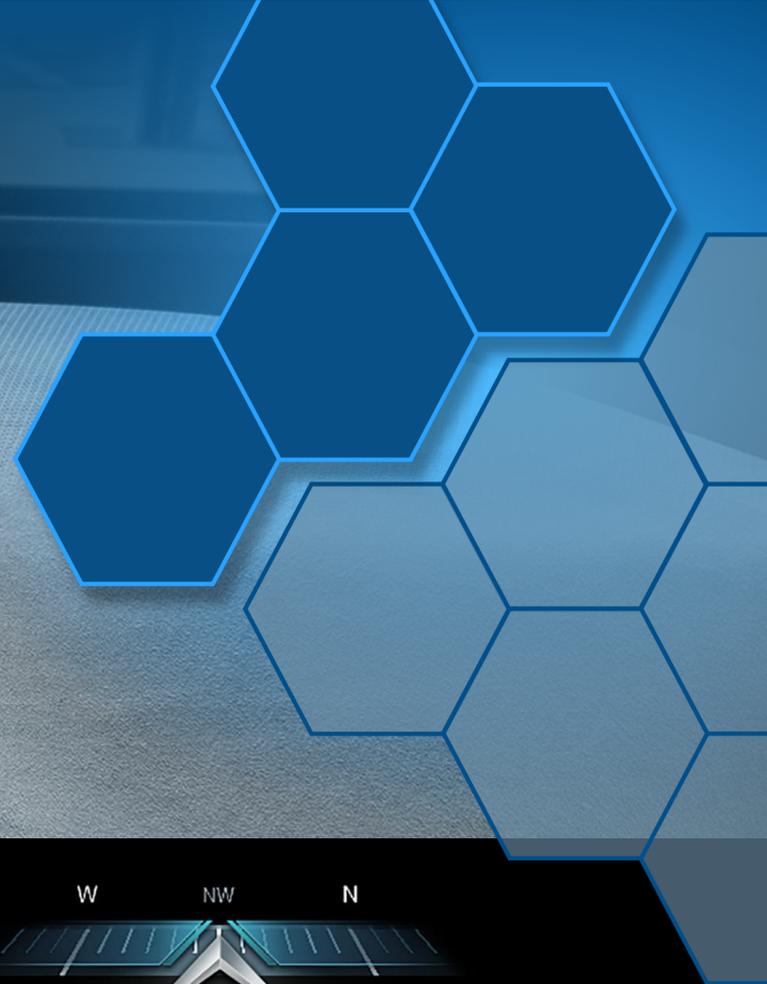
* In comparison to BMW 3 Series.



THE FIRST EVER BMW i4
AND THE FIRST EVER BMW iX.

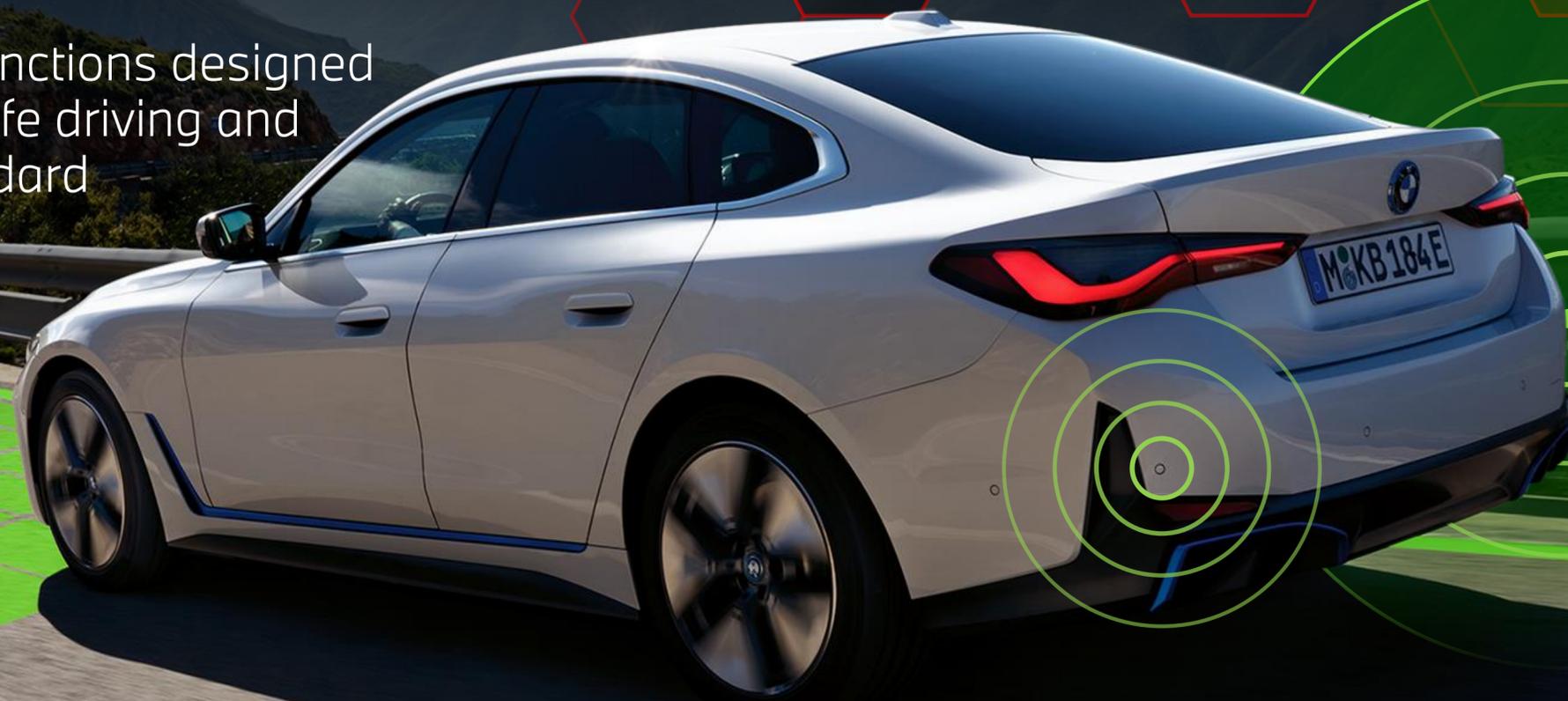


DRIVING
ASSISTANCE
SYSTEMS.



THE BMW i4. DRIVING ASSISTANCE SYSTEMS IN A NUTSHELL.

➤ Some 40 driver assistance functions designed to enable comfortable and safe driving and parking are available as standard or as an option.



➤ Standard Highlights.

- Front Collision Warning.
- Speed Limit Info.
- Lane Departure Warning.
- Park Distance Control incl. Parking Assistant with Reversing Assistant.

➤ Optional Highlights.

- Active Cruise Control with automatic Speed Limit Assist and route monitoring.
- Steering and Lane Control Assistant.
- Parking Assistant Plus with Surround View and Remote 3D View.



THE FIRST EVER BMW iX. THE WORLD OF EASE.

BMW iX focus:

- State of the Art Technology for best in class Driving Assistance Systems.
- Long Distance Companion – Focus Comfort and Chassis.
- Automated Parking – effortless & smart.

EASE



THE FIRST EVER BMW iX – RESULTING: SCALABLE STATE OF THE ART SENSOR-SETUP.



Front camera (8 Mpi).



Surround view camera.



Full range radar (300 m).



Ultrasonic sensor (6x1).

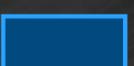


Short range radar (2x1).

Surround view camera (2x1).



Sensor-setup for driving 

Sensor-setup for parking 



THE FIRST EVER BMW iX – RESULTING: SCALABLE STATE OF THE ART SENSOR-SETUP.



Surround view camera
and cleaning system.



Ultrasonic
sensor (6x1).



Short range
radar (2x1).



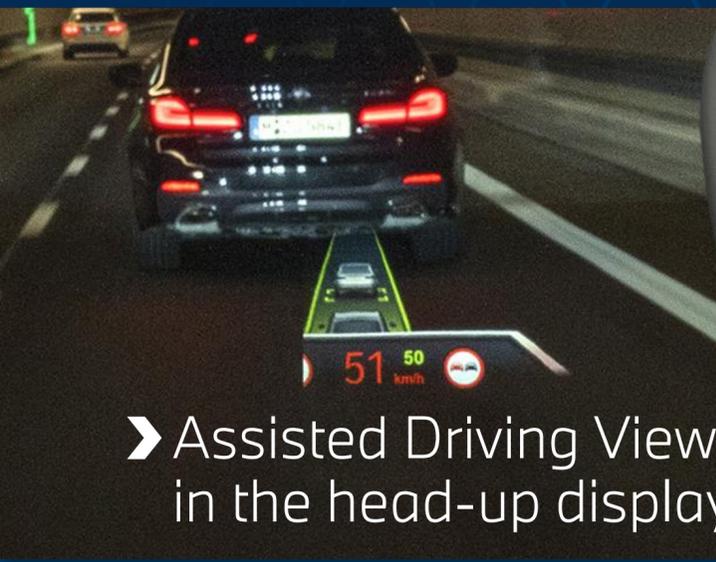
Sensor-setup for driving



Sensor-setup for parking



THE FIRST EVER BMW iX. COMING NEXT.



➤ Assisted Driving View in the head-up display.



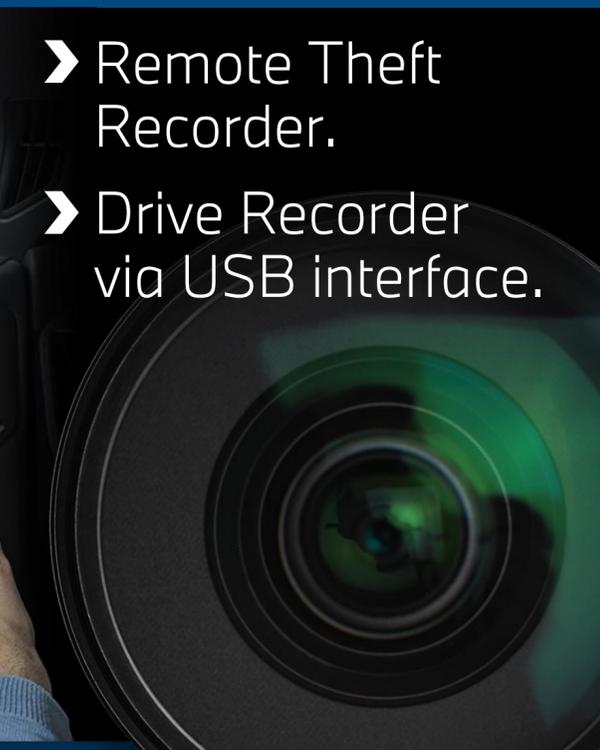
➤ Control via multifunction buttons.



➤ Rear Crossing-Traffic Warning.



➤ Exit warning function.



- Remote Theft Recorder.
- Drive Recorder via USB interface.

Coming in 2022

From 03/22

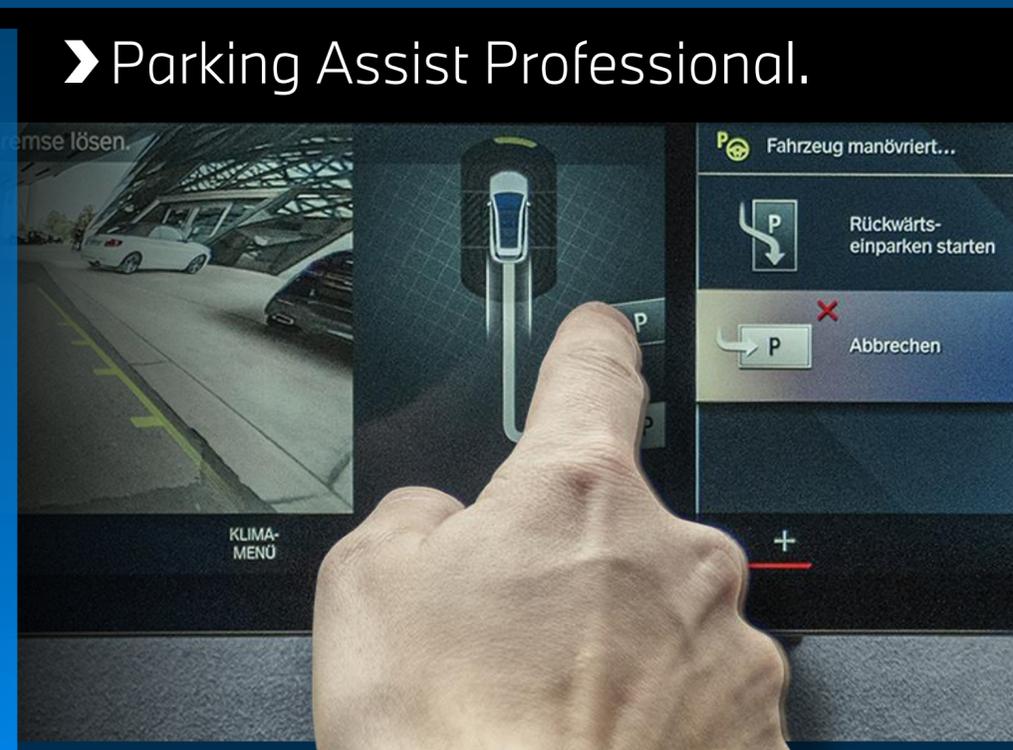
- Parking Assist Professional.
- Maneuver Assistant.

From 07/22

- Remote Control via Smartphone.

Via Functions on Demand:

- Active Cruise Control Stop & Go.
- Steering and Lane Control Assistant (hands-on).



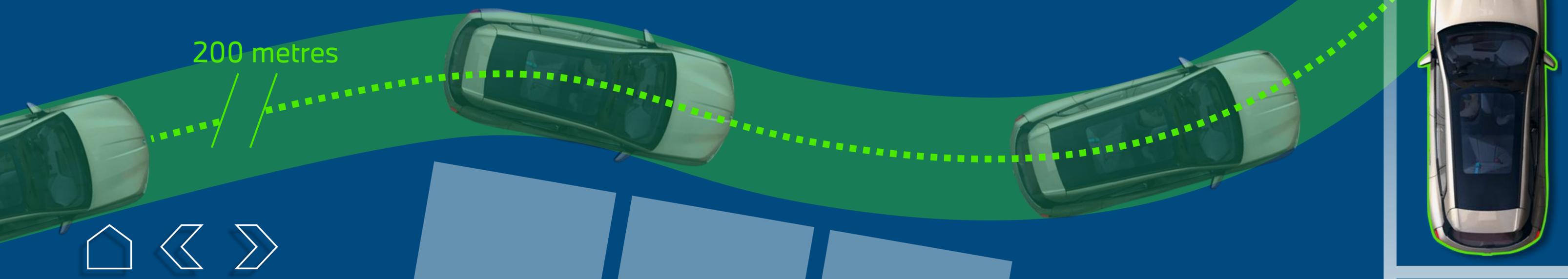
➤ Parking Assist Professional.



THE FIRST EVER BMW iX. COMING NEXT— MANEUVER ASSISTANT.



- 200 metres recording function.
- Increased and constant precision over the total distance due to localisation by surround view camera.
- Optimised obstacle detection versus previous generation tool kit.
- Path to be driven is shown in the "Assist View" and as overlay in the camera view.
- Up to 10 maneuvers can be recorded and stored per car/profile.
- Maneuver Assistant different from Park Maneuver Assistant.



INTERNATIONAL MEDIA LAUNCH. BMW GROUP PLANT DINGOLFING.



Lean

Digital

Green



BMW GROUP PLANT DINGOLFING. OVERVIEW OF THE SITE.



Plant 02.27
Unterhollerau

Plant 02.91
Wallersdorf

Plant 02.30
Training & Service Centre

Plant 02.10
Chassis Components

BIGGEST
BMW Group
plant in Europe.

PLANT 02.40
Lead Plant Luxury Class

Plant 02.20
E-Drive Production

Plant 02.44
Wörth



Plant 02.70
Central Parts Distribution

Plant 02.41
Body Construction Systems

Plant 02.75
Bruckberg

Plant 02.72
Niederviehbach



BMW GROUP PLANT DINGOLFING. FACTS & FIGURES.

232,000

cars built in 2020.

1,500

cars per day.

17,000

employees.

> 850

apprentices
in 15 different
professions.

> 2.8 million sq. m

(Dingolfing site in total).

**Hundreds of
millions of euros**

invested annually in new
models and technologies.

HIGH FLEXIBILITY.

4 BMW 4 Series
Coupé, Convertible



5 BMW 5 Series
Sedan, Touring,
PHEV



6 BMW 6 Series
Gran Turismo



7 BMW 7 Series
Sedan, LWB version,
PHEV



8 BMW 8 Series
Coupé, Convertible,
Gran Coupé



ROLLS-ROYCE

Ghost
Phantom
Cullinan
Wraith
Dawn



Rolls-Royce
Motor Cars Limited

BMW i

BMW iX
BEV versions of BMW 7
and 5 Series already
announced



BMW M

BMW M8 Coupé, Convertible, Gran Coupé
BMW M4 Coupé, Convertible
BMW M5 Sedan



MEGATRENDS AND STRATEGIC DEVELOPMENT OF THE PLANT.

DIGITALIZATION



ELECTRIC MOBILITY



SUSTAINABILITY



MEGATRENDS AND STRATEGIC DEVELOPMENT OF THE PLANT.

DIGITALIZATION



ELECTRIC MOBILITY



SUSTAINABILITY



DIGITALIZATION AS A TWOFOLD CHALLENGE.

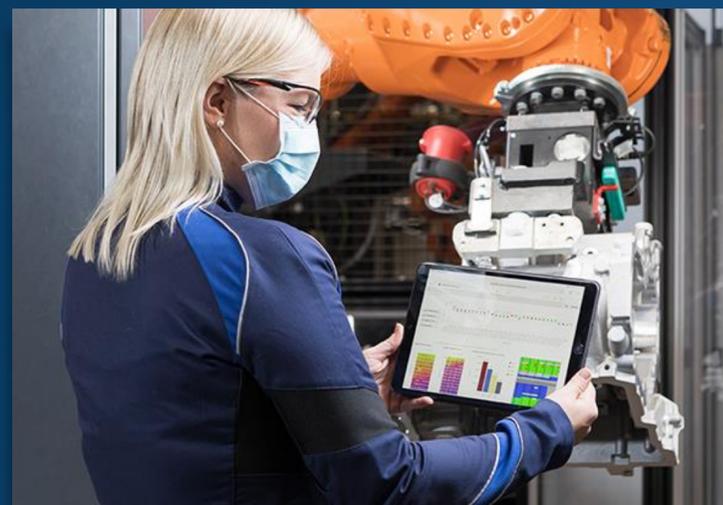


Product The BMW iX - the most digital car ever produced by BMW.

Production Digitalization of production processes for greater efficiency, better ergonomics and higher quality.



Innovative automation



Data analytics



Smart logistics



Additive manufacturing



MEGATRENDS AND STRATEGIC DEVELOPMENT OF THE PLANT.

DIGITALIZATION



ELECTRIC MOBILITY



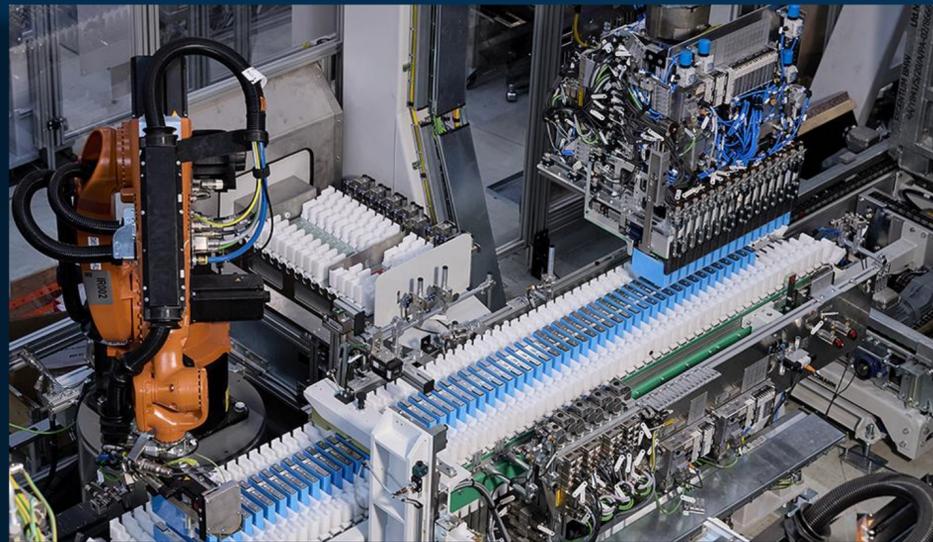
SUSTAINABILITY



DINGOLFING PLANT – BMW'S ELECTRIC MOBILITY PIONEER.

Competence Centre
for E-drive Production.

Annual capacity of E-Drive components
for > 500,000 cars from 2022 onwards.



Growing number of
employees in e-mobility.

Increase to over 2,000 employees in
e-drive production in the long term.



> 1,400
people have
moved to e-drive
production areas.

> 1,900
by the end of 2021.

> 4,000
people with new
future-focused
assignments
since 2012.

Share of electrified models at
Dingolfing to more than double in 2021.

In 2020 about 8% of the BMW Dingolfing
production was electrified.

> 100%
increase in
production volume
of electrified cars
in 2021.



Production of Plug-in-
Hybrids since 2016.



MEGATRENDS AND STRATEGIC DEVELOPMENT OF THE PLANT.

DIGITALIZATION



ELECTRIC MOBILITY



SUSTAINABILITY



WE CONTINUE TO SIGNIFICANTLY REDUCE CO₂ THROUGHOUT THE VALUE CHAIN AND FOLLOW A CIRCULAR ECONOMY APPROACH.

Resource consumption in BMW Group production reduced by > 50% in the period 2006 - 2020.

- 50% resources



Production of BMW iX with locally sourced, renewable energy. Use of hydropower from the Isar and Lech rivers.



Energy



Recycling



E-mobility



Logistics, transport



Biodiversity

Environmental sustainability is deeply rooted in the Plant's strategy and has many facets at the Dingolfing site.

CO₂ reduction targets per vehicle 2019 - 2030.

Supply chain
- 20% CO₂



Production
- 80% CO₂



Use phase
- 50% CO₂



BMW iX: THE ALL-ELECTRIC BMW FROM PLANT DINGOLFING. OVERVIEW.

**First all-electric car
and first X model
from Dingolfing.**

iX



Integration into the
heart of the site
at plant 02.40.
(assembly hall 52 / build. 30).



**Over 400
million Euro
invested** in
vehicle factory.



**E-components
from** the Dingolfing
component plants.
(02.20 and 02.10).



INTERNATIONAL MEDIA LAUNCH. BMW COMPETENCE CENTRE ELECTRIC DRIVETRAIN.



E-DRIVE PRODUCTION COMPETENCE CENTRE. PLANT DINGOLFING.

Over 1,500
employees.

Investment of
500 Mio. €
from 2020 - 2022.

From 2022 production of
electric drivetrains for over
500,000 electrified vehicles.

12
production
lines.

125,000 sqm
usable space.



PRODUCTION OF ELECTRIC DRIVETRAINS: HIGH LEVEL OF IN-HOUSE COMPETENCE.

Electric Drivetrain (BMW Gen5)

Conventional Drivetrain

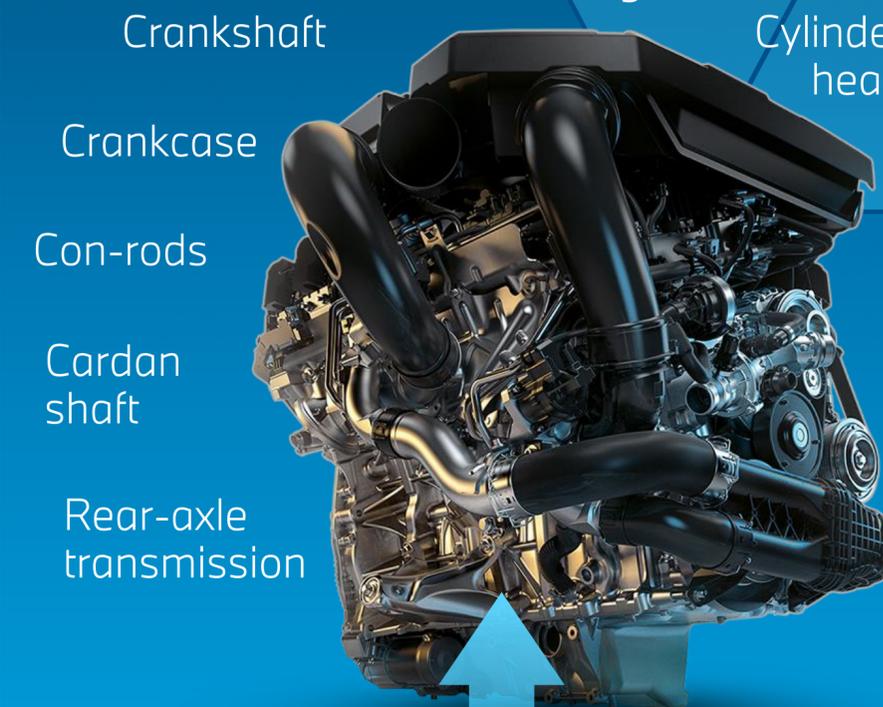
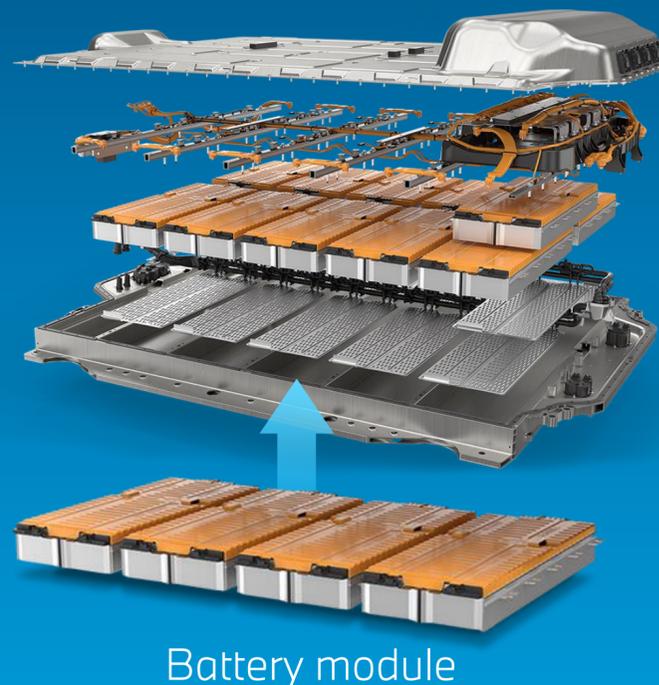
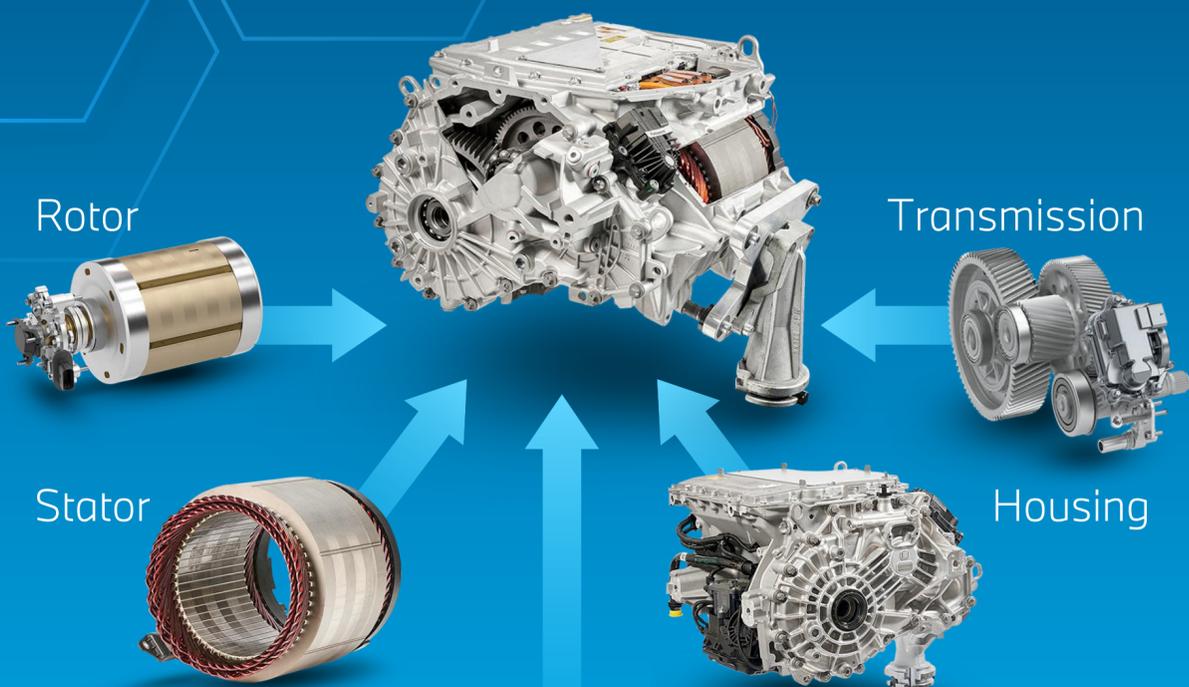
BMW Group in-house effort

Suppliers

Highly integrated drivetrain unit:
electric motor, transmission and power electronics.

Lithium-ion
high voltage battery.

Combustion engine.
Assembling



Power electronics



Components according
to BMW requirements

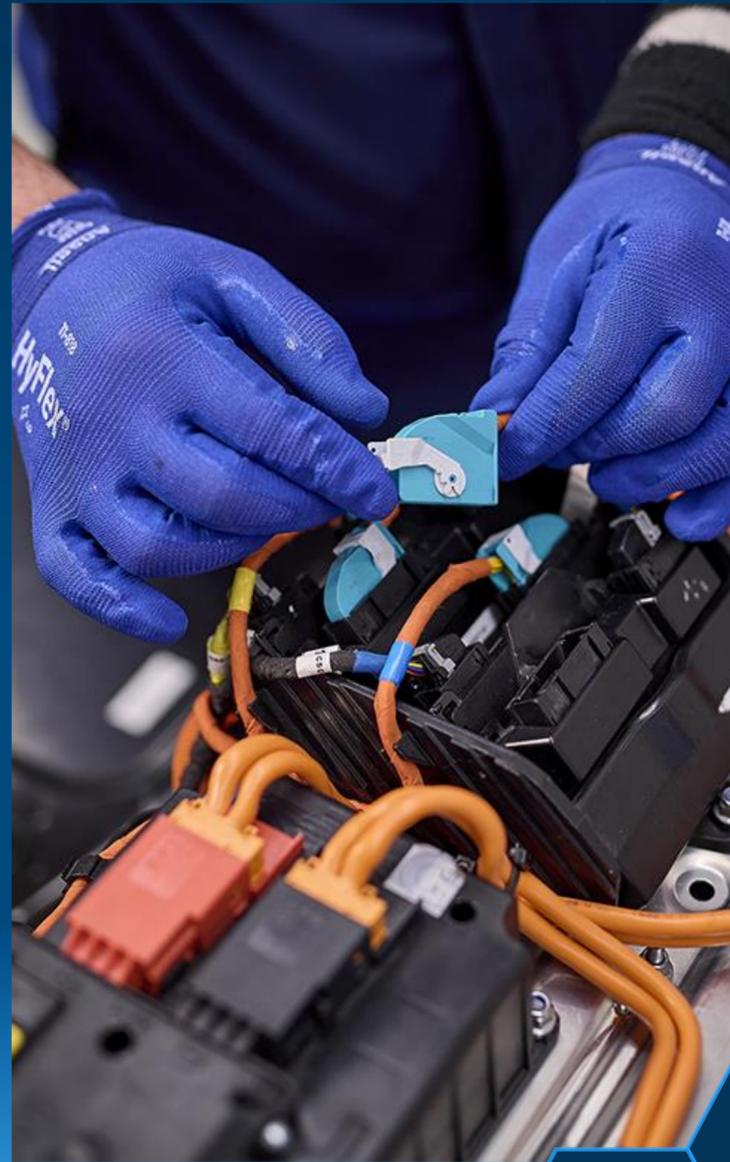
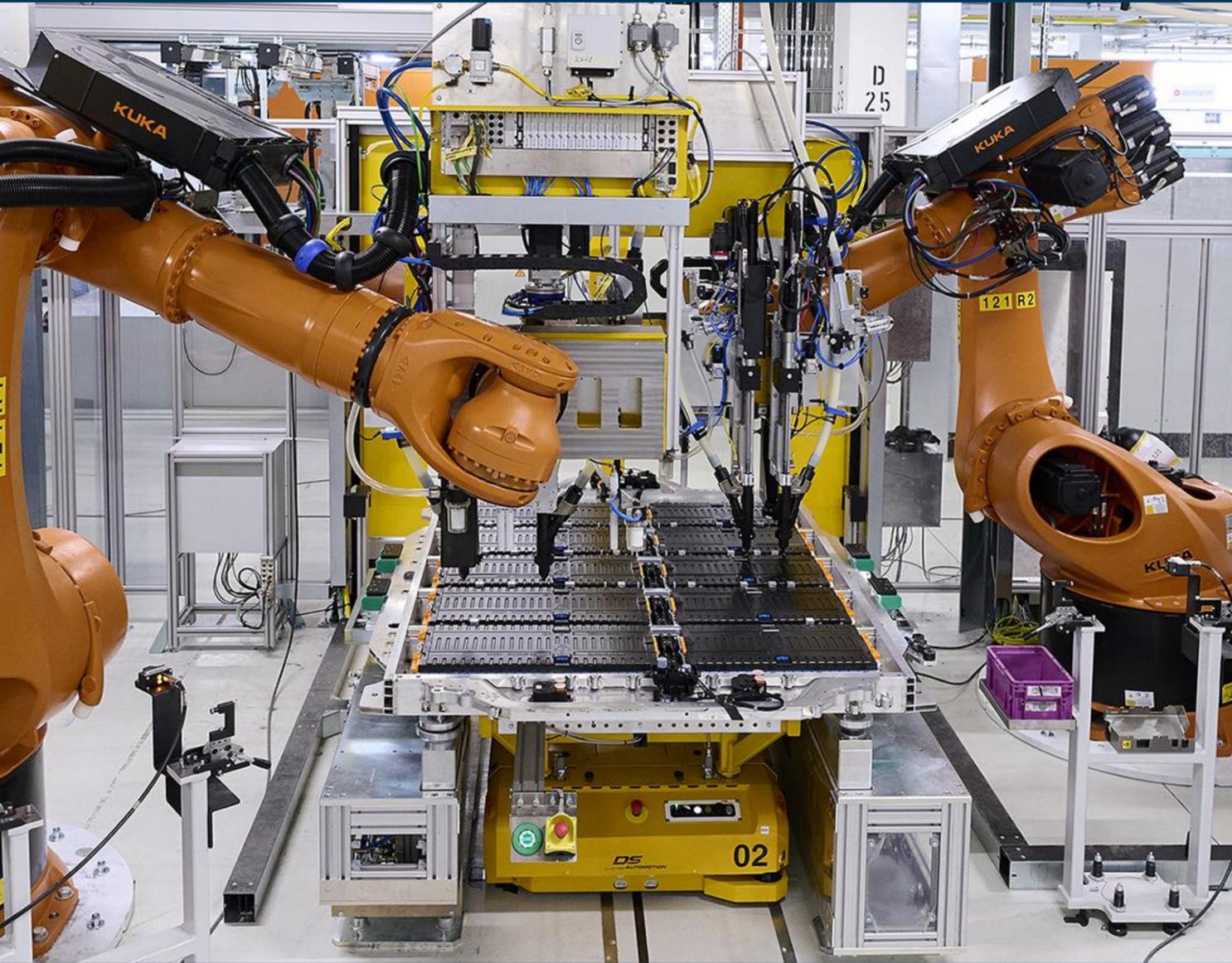
Battery
cell



Engine components
Main transmission
Exhaust system
Tank
...



INTERNATIONAL MEDIA LAUNCH. BMW COMPETENCE CENTRE ELECTRIC DRIVETRAIN.



INTERNATIONAL MEDIA LAUNCH.
THE FIRST EVER BMW i4 AND THE FIRST EVER BMW iX.

