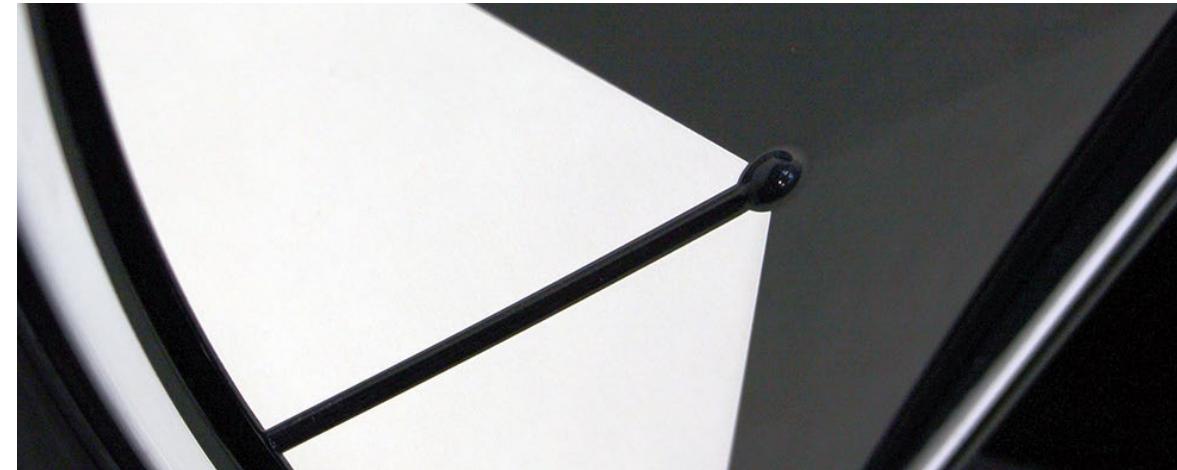
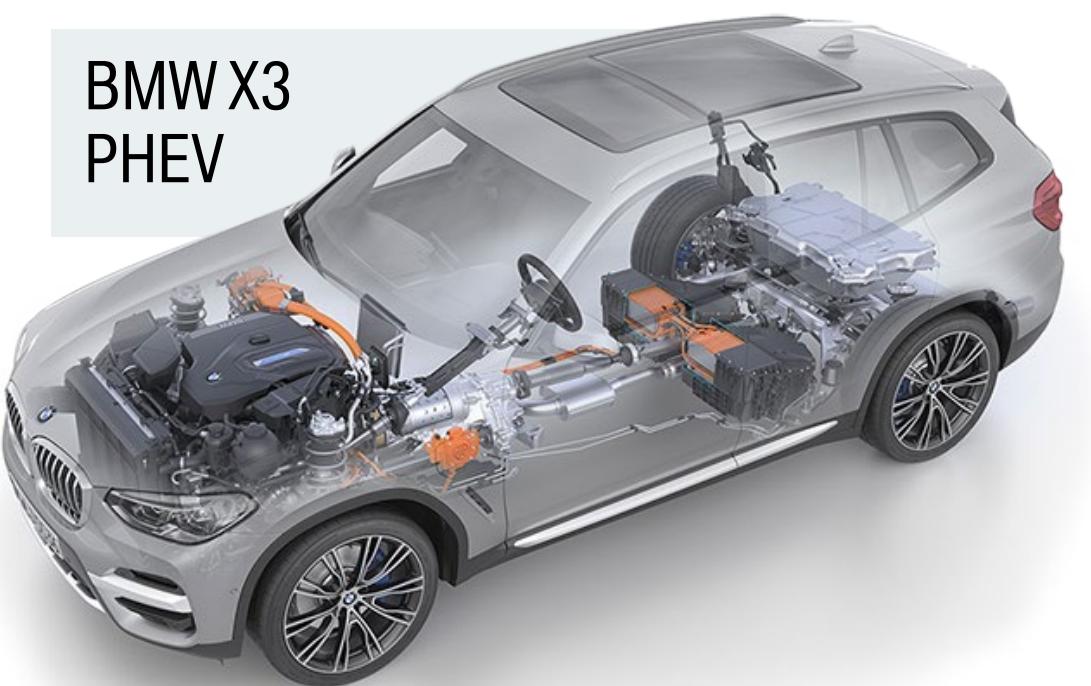
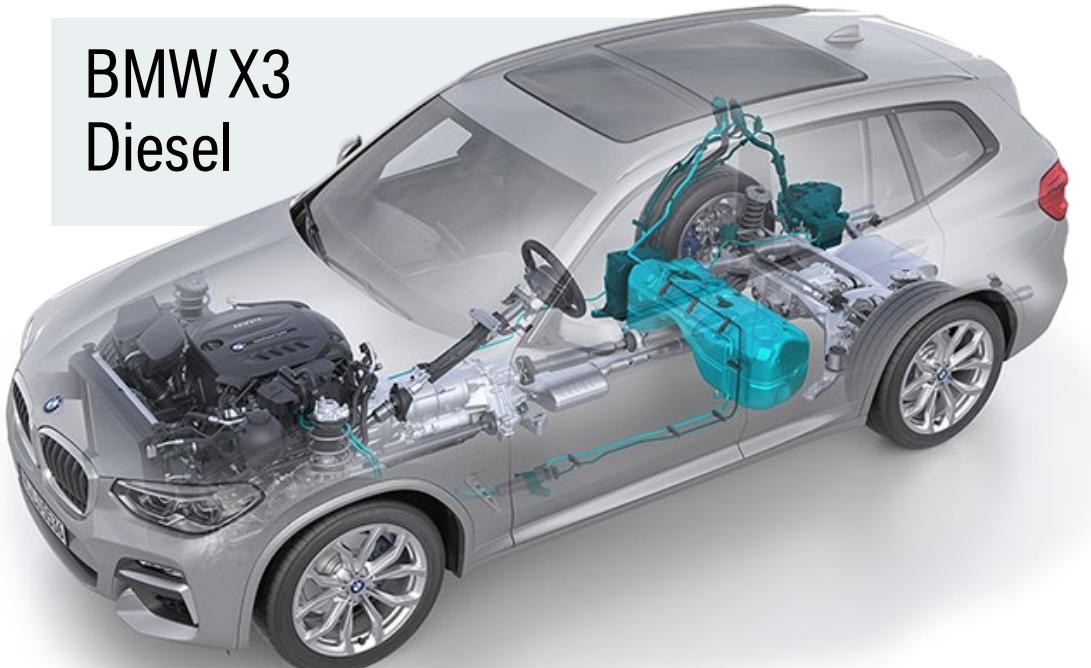


# THE FIRST-EVER BMW iX3. INFORMATION.



# BMW GIVES THE POWER OF CHOICE.



The BMW X3 is the first BMW to be offered in four different drivetrains. The BMW Group favors flexible architectures over purpose-made BEV platforms.

# OUTLOOK

EXPECTED TRENDS OF POWERTRAIN SPLIT GLOBALLY.

PHEV

Plug-in Hybrid Electric Vehicle



ICE

Internal Combustion Engine



Car Sharing



BEV

Battery Electric Vehicle



2013

2035

# THE FIRST-EVER BMW iX3. OVERVIEW.



BMW Group eDrive system  
BMW Group electric motor  
BMW Group 400 V lithium-ion battery

## BMW iX3\*

Electric motor	210 kW / 286 hp
Max. torque	400 Nm
Electric range	450-459 km
Battery	74 kWh (net)
Consumption (kWh/100 km)	19.4 (combined)
Acceleration (0 - 100 km/h)	6.8 sec
Acceleration (0 - 60 km/h)	3.7 sec
Top speed	180 km/h (electronically governed)
Charging time (DC/150 kW)	10 mins for 100 km

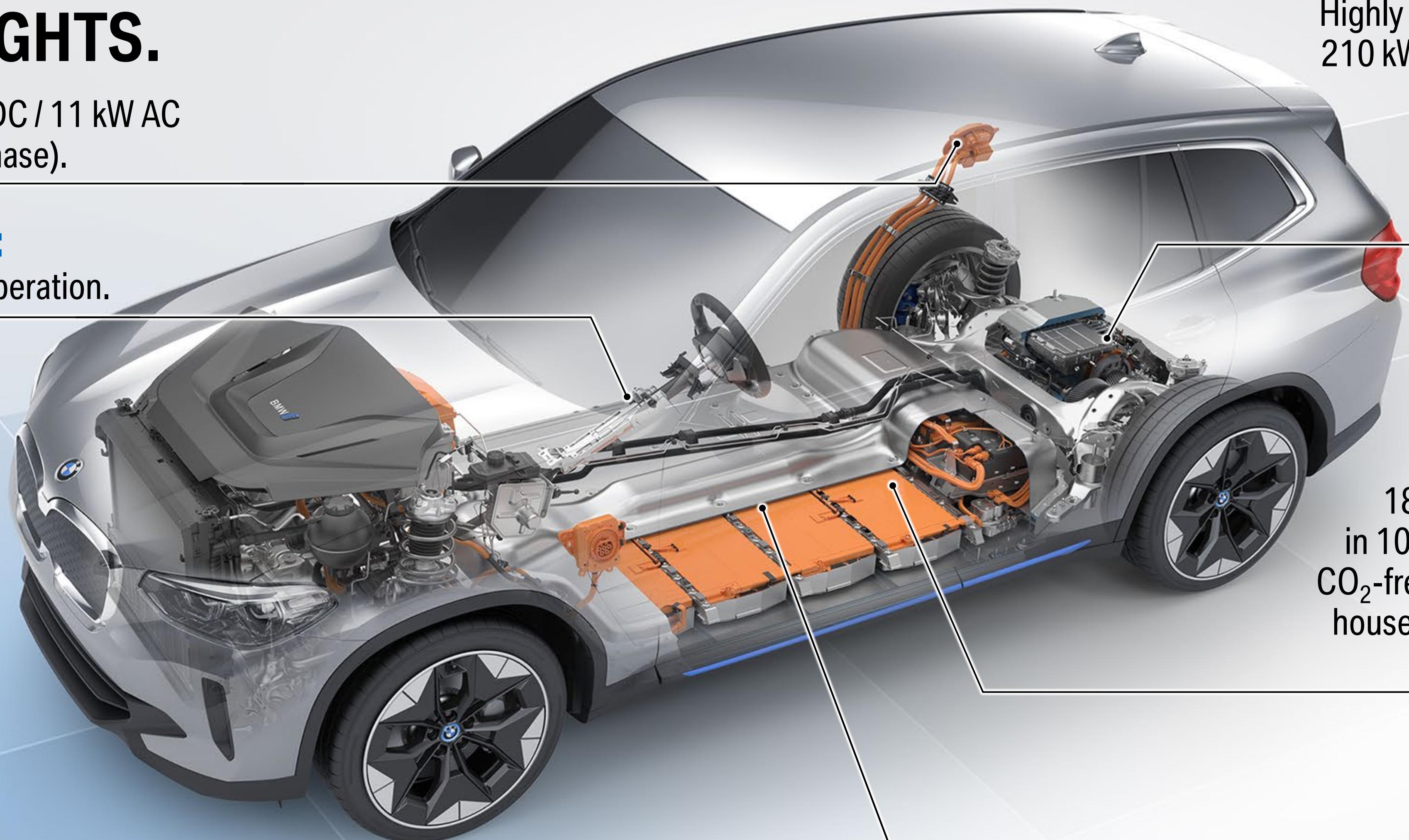
\* All numbers presented are according to WLTP.

# THE FIRST-EVER BMW iX3. HIGHLIGHTS.

Up to 150 kW DC / 11 kW AC  
Charging (3-phase).

## » Innovation:

Adaptive Recuperation.



» **Innovation:**  
Highly integrated drivetrain unit  
210 kW / 286 hp electric motor,  
transmission and 400 V  
electronics, free from  
Rare Earth Materials,  
2/3 less Cobalt.

188 prismatic battery cells  
in 10 modules, produced with  
CO<sub>2</sub>-free electricity, individually  
housed and controlled for long  
life and high safety.

74 kWh (net) / 80 kWh (gross) lithium-ion-battery  
with modular concept for repair and 2<sup>nd</sup> life.

WLTP range  
**450 - 459 km**

Economy WLTP  
**19.4 kWh/100 km**

# THE FIRST-EVER BMW iX3. HIGHLIGHTS.

Clean frontend design without many openings, as less cooling is required.



Blue accents (option) indicate electric drivetrain.

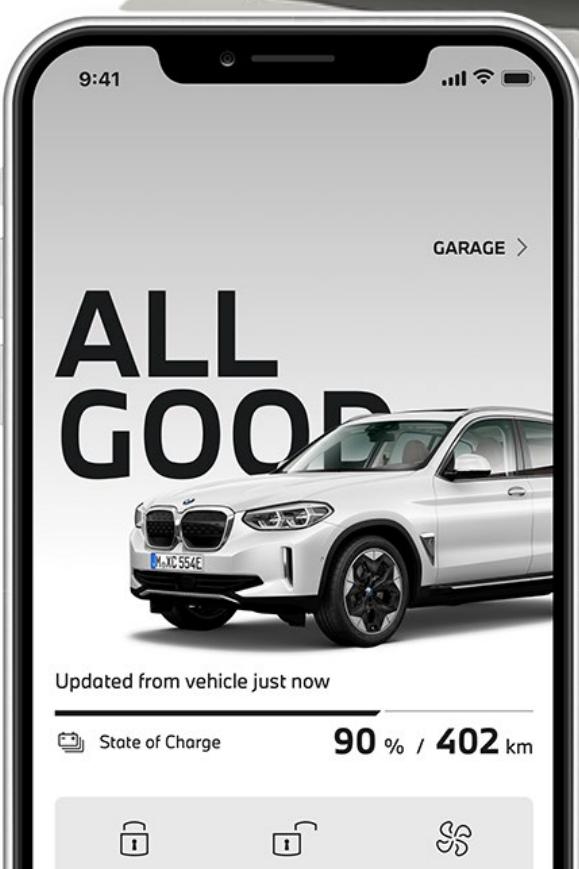


Centre of gravity 74 mm lower than ICE equivalent, improving driving dynamics.

Uncompromised 1,560 litres cargo space.

## » Innovation:

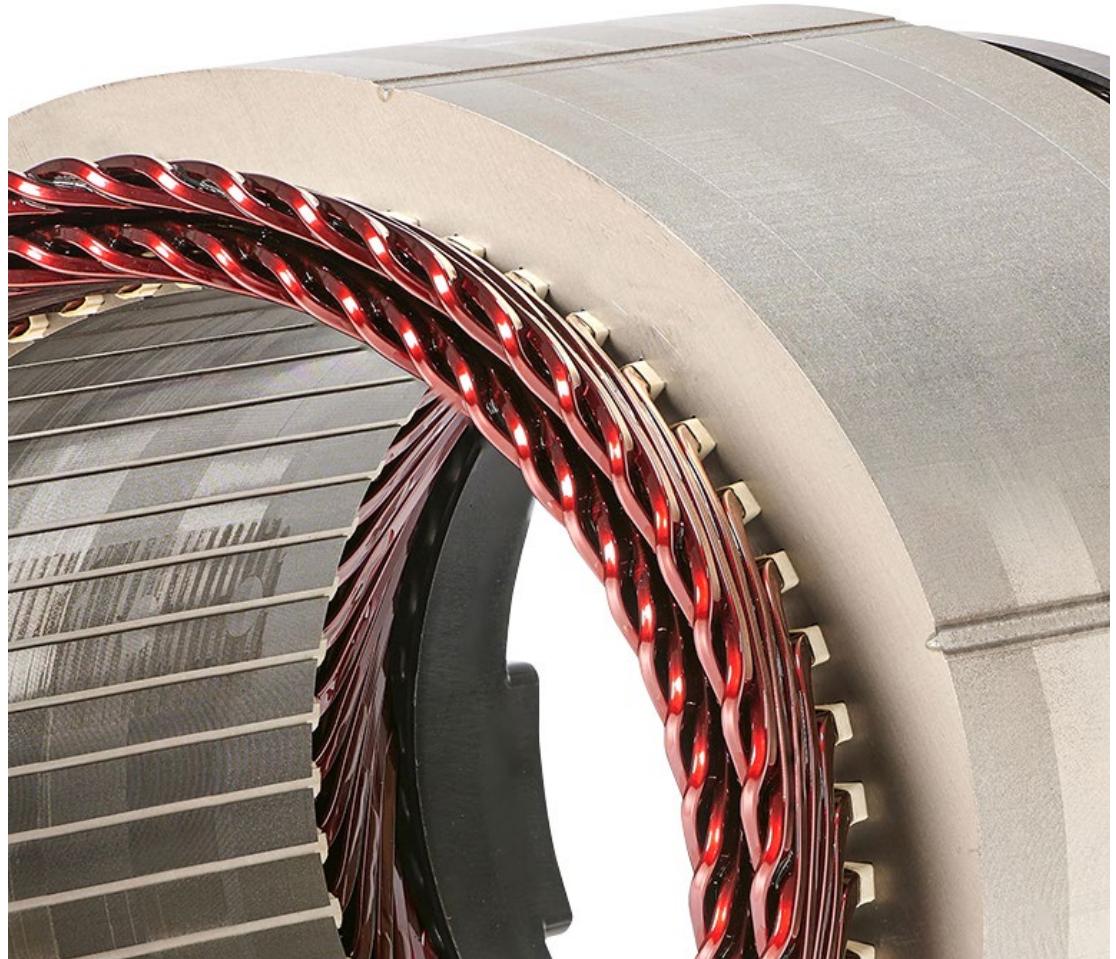
20-inch aerodynamic wheels with low rolling resistance tyres.



Operating System 7 featuring Digital Key, Remote Software Updates, Connectivity features

Agile RWD experience thanks to 43% front, 57% rear weight distribution + ARB.

# THE FIRST-EVER BMW iX3.



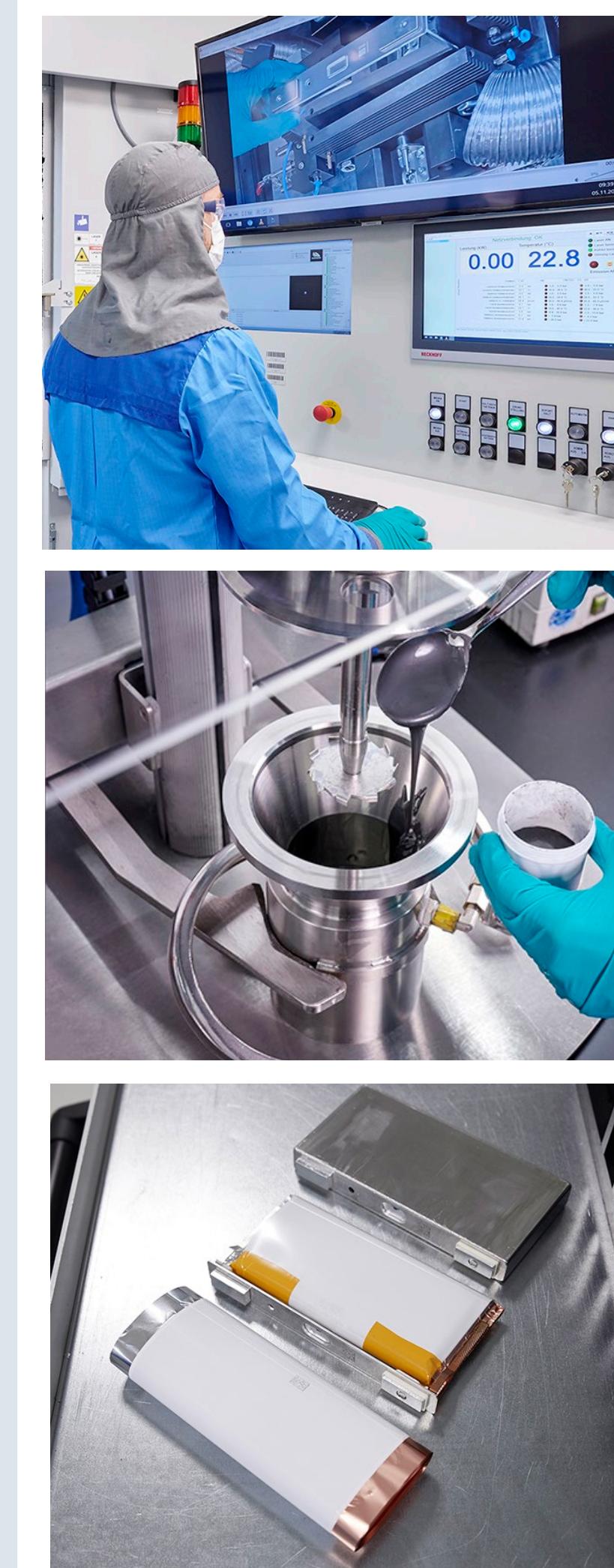
# BMW GROUP R&D AND PRODUCTION.



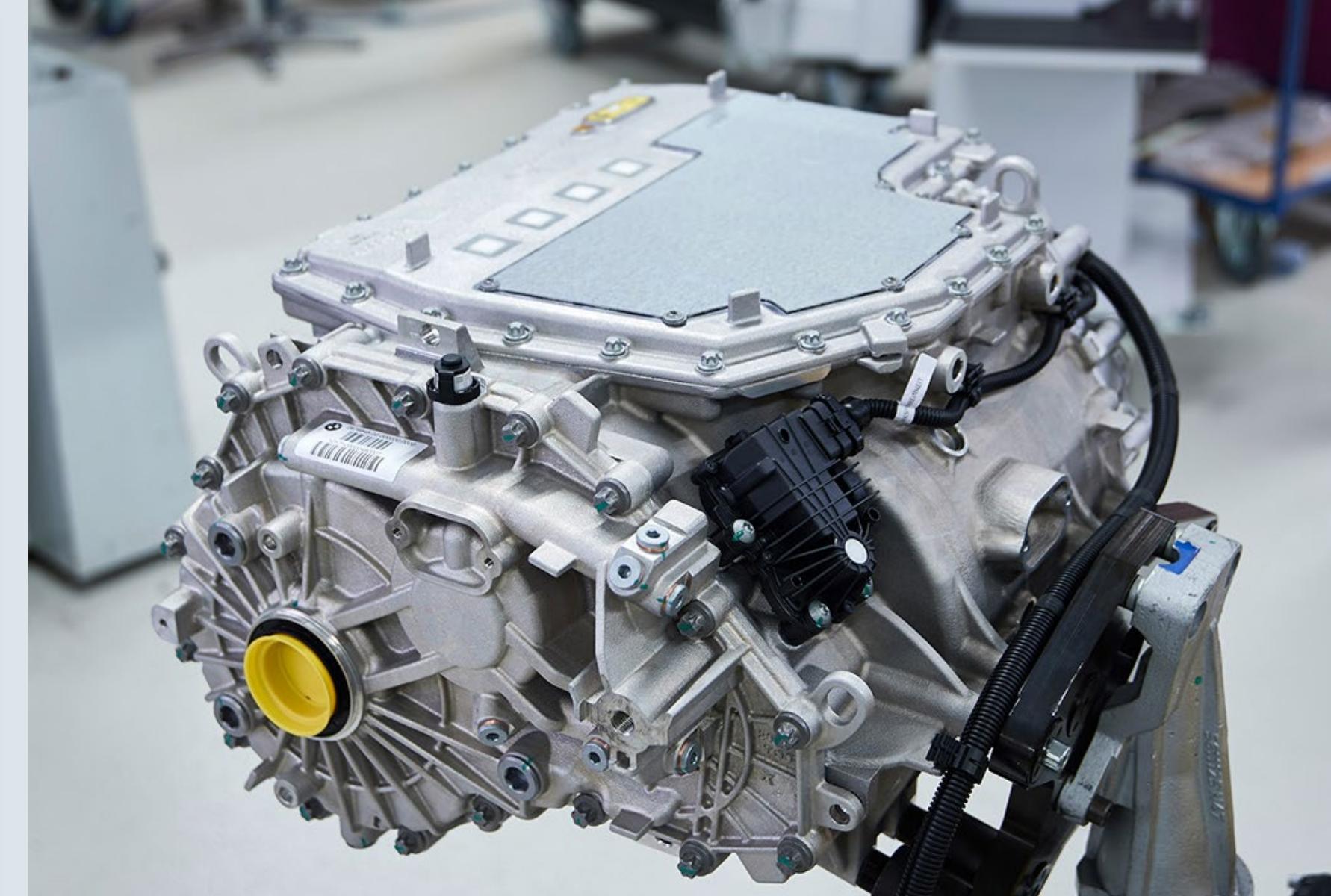
## Advanced battery cell technology.

“Taking the technology currently in the BMW i3 as a basis, by 2030 we will be able to double the energy density of our battery cells – and therefore also the operating range of the vehicles for our customers.”

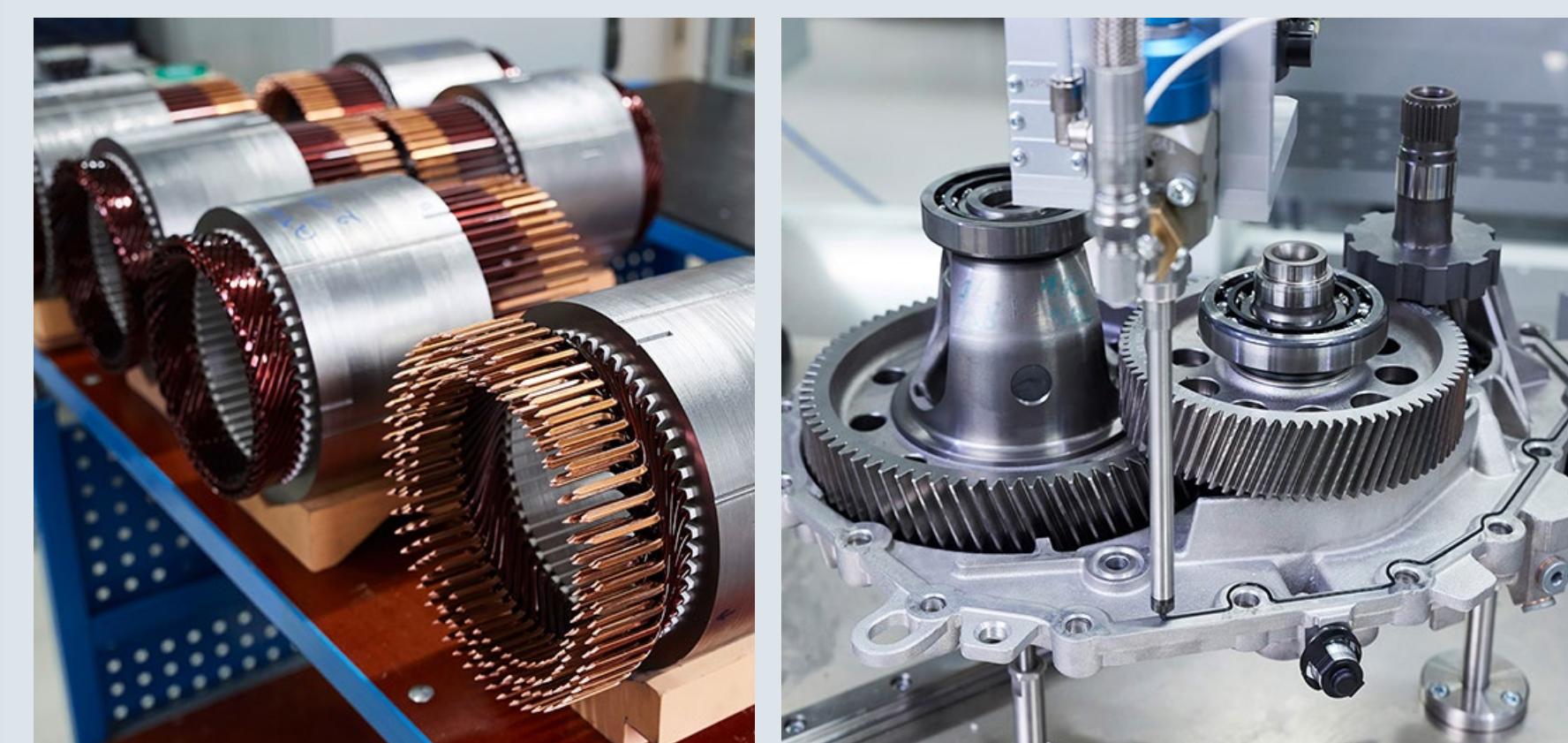
Oliver Zipse,  
Chairman of the Board of  
Management of BMW AG.



In-house development  
& production of batteries  
since 2008.



The BMW Group is already launching the fifth generation of its electric drivetrain, in which interaction between the electric motor, transmission, power electronics and battery have been further optimised. Additionally, the new electric motor does not require the use of rare earths.



Electric motor, transmission  
and power electronics in a  
compact unit.

# THE FIRST-EVER BMW iX3. GLOBAL SUSTAINABILITY CREDENTIALS.

Oliver Zipse, Chairman of the Board of Management of BMW AG:

“The fight against climate change and how we use resources will decide the future of our society – and of the BMW Group.”

## Sourcing.

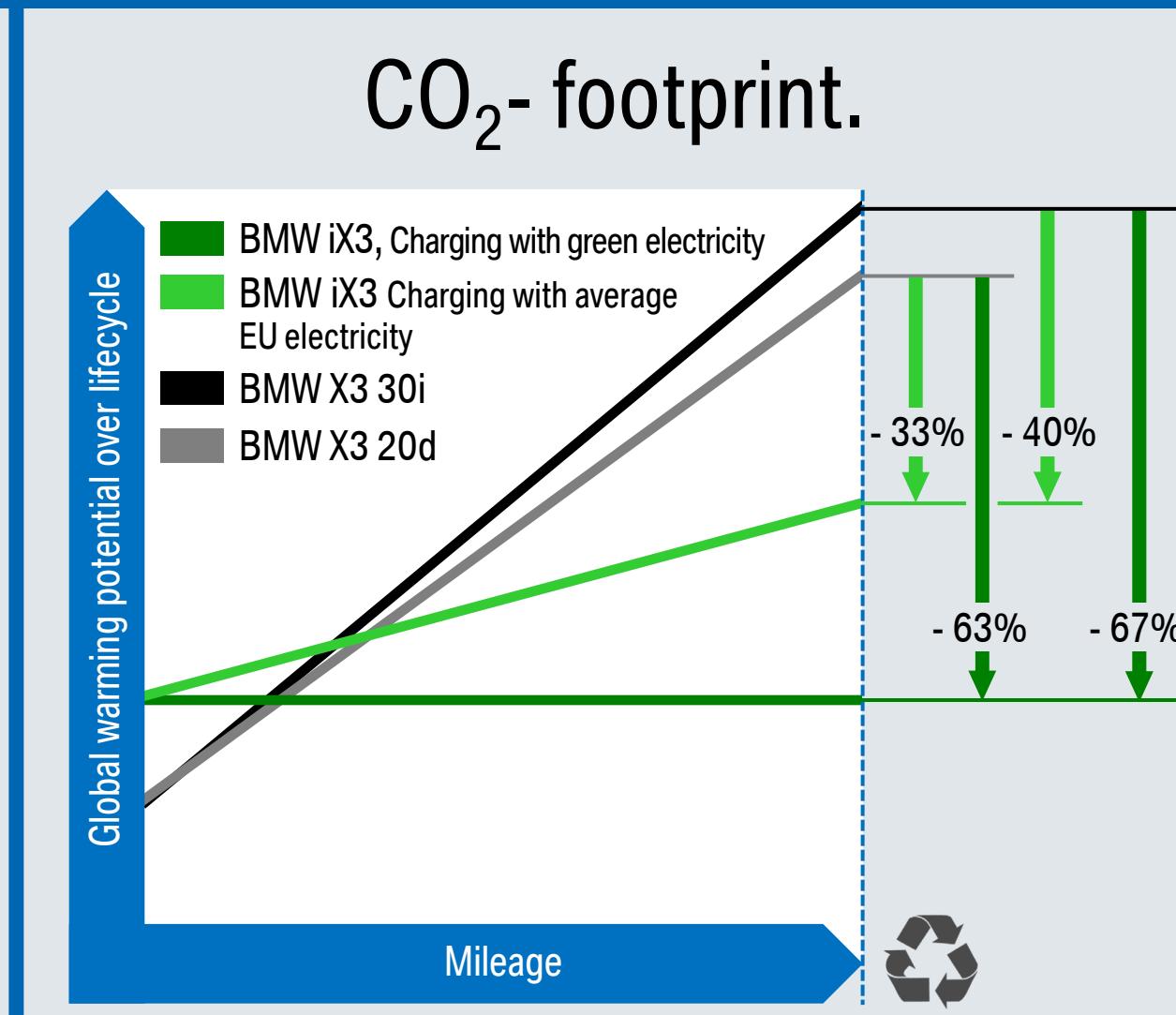


In order to take full control of the supply chain in terms of social and environmental standards, BMW Group is first to purchase Cobalt and Lithium from certified mines in Morocco and Australia, which then is supplied to the battery cell manufacturer.

Beginning with BMW eDrive Gen5 in 2020:

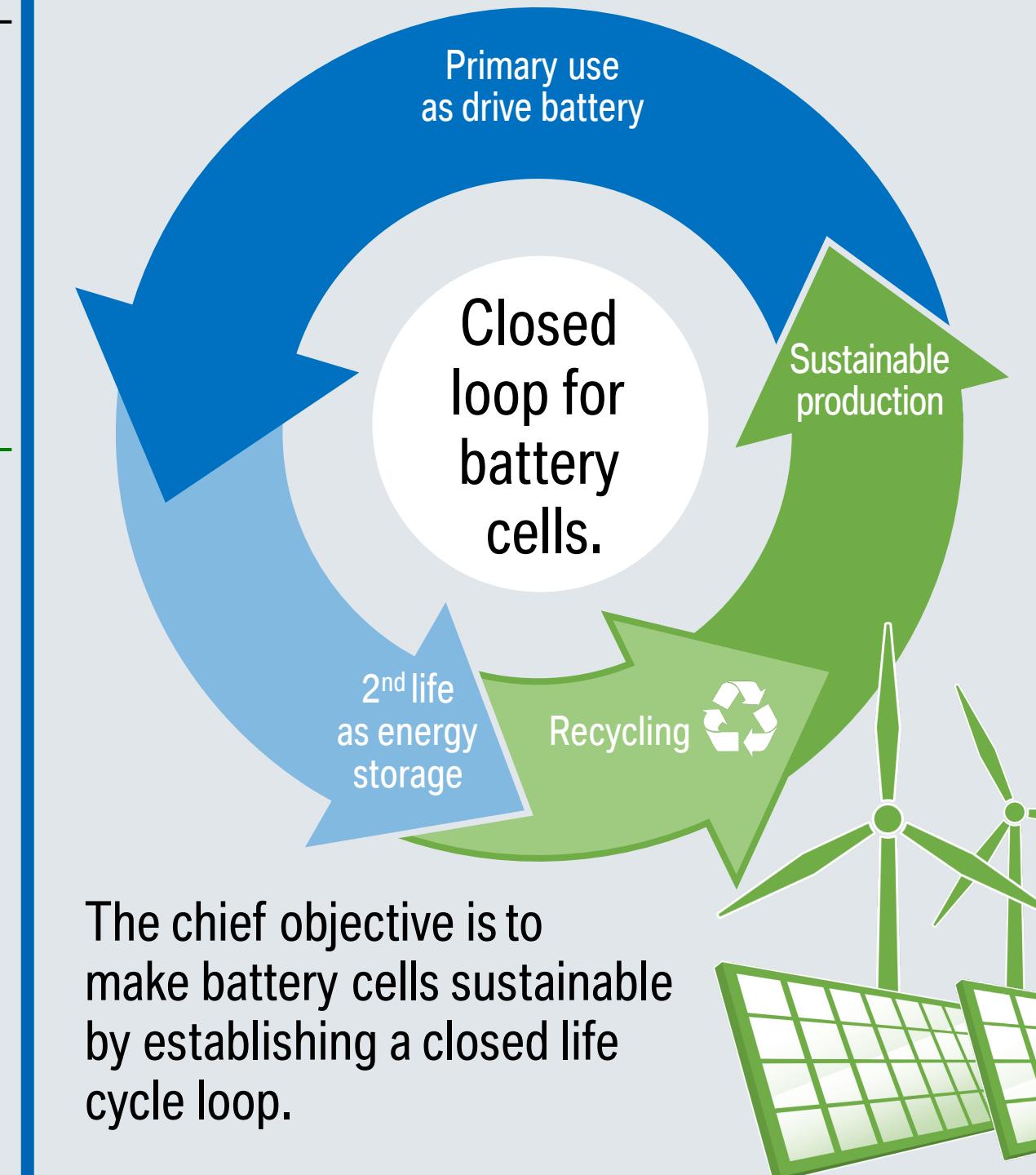
- No use of Rare Earth Materials.
- Cobalt reduction by another 2/3 per kWh.

## CO<sub>2</sub>- footprint.



Ever since the BMW i3 in 2013, every BMW Group electrified vehicle comes with a CO<sub>2</sub>-footprint which is substantially lower than those of comparable conventionally powered models and which comprises CO<sub>2</sub> emissions from Material Sourcing, Supply Chain, Production, Use-Phase and Recycling.

## Conserving resources.



The chief objective is to make battery cells sustainable by establishing a closed life cycle loop.

The BMW Group, Northvolt and Umicore operate a joint technology consortium for a complete and sustainable value chain for battery cells in Europe.

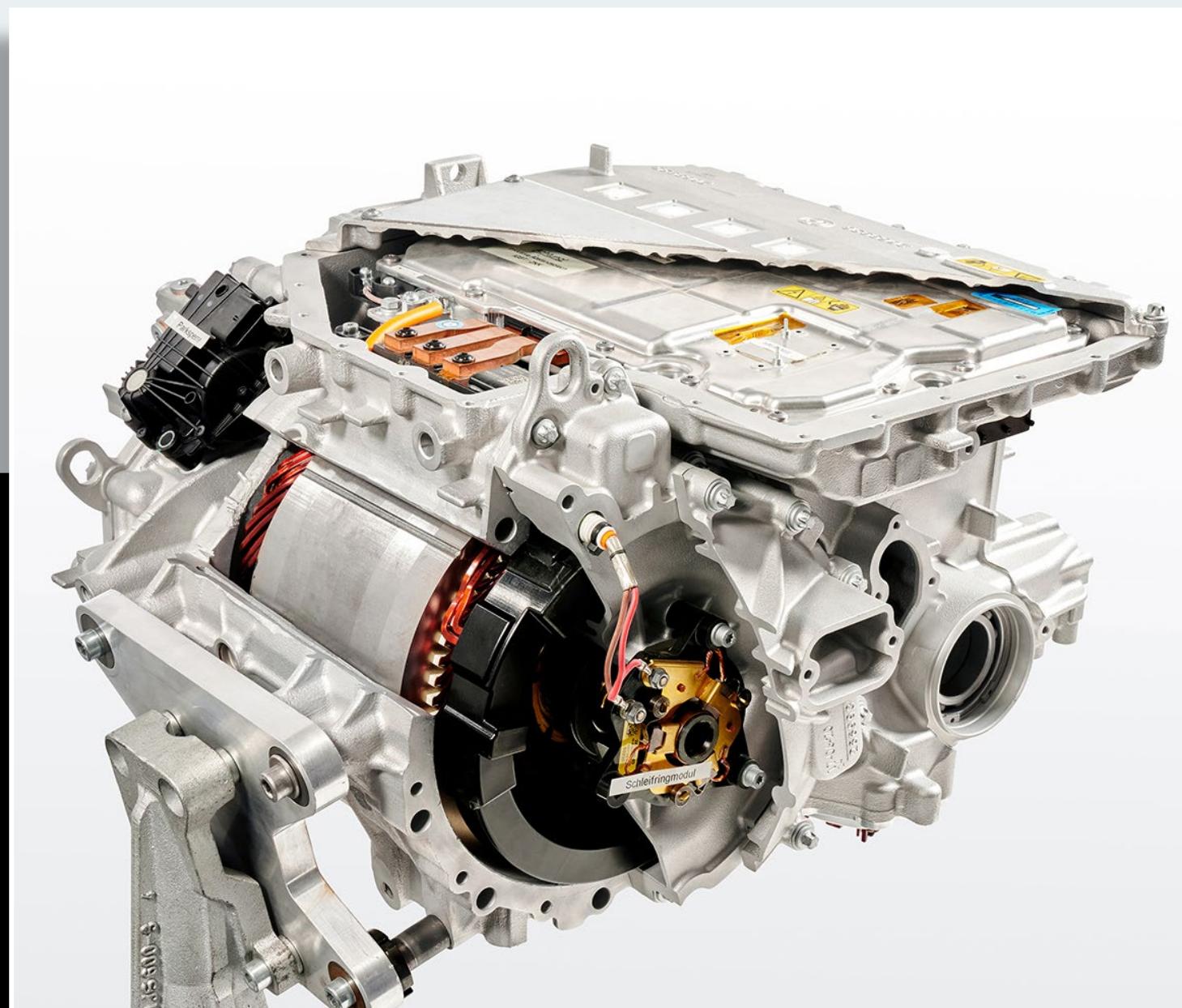
## 96% recycling-quote.



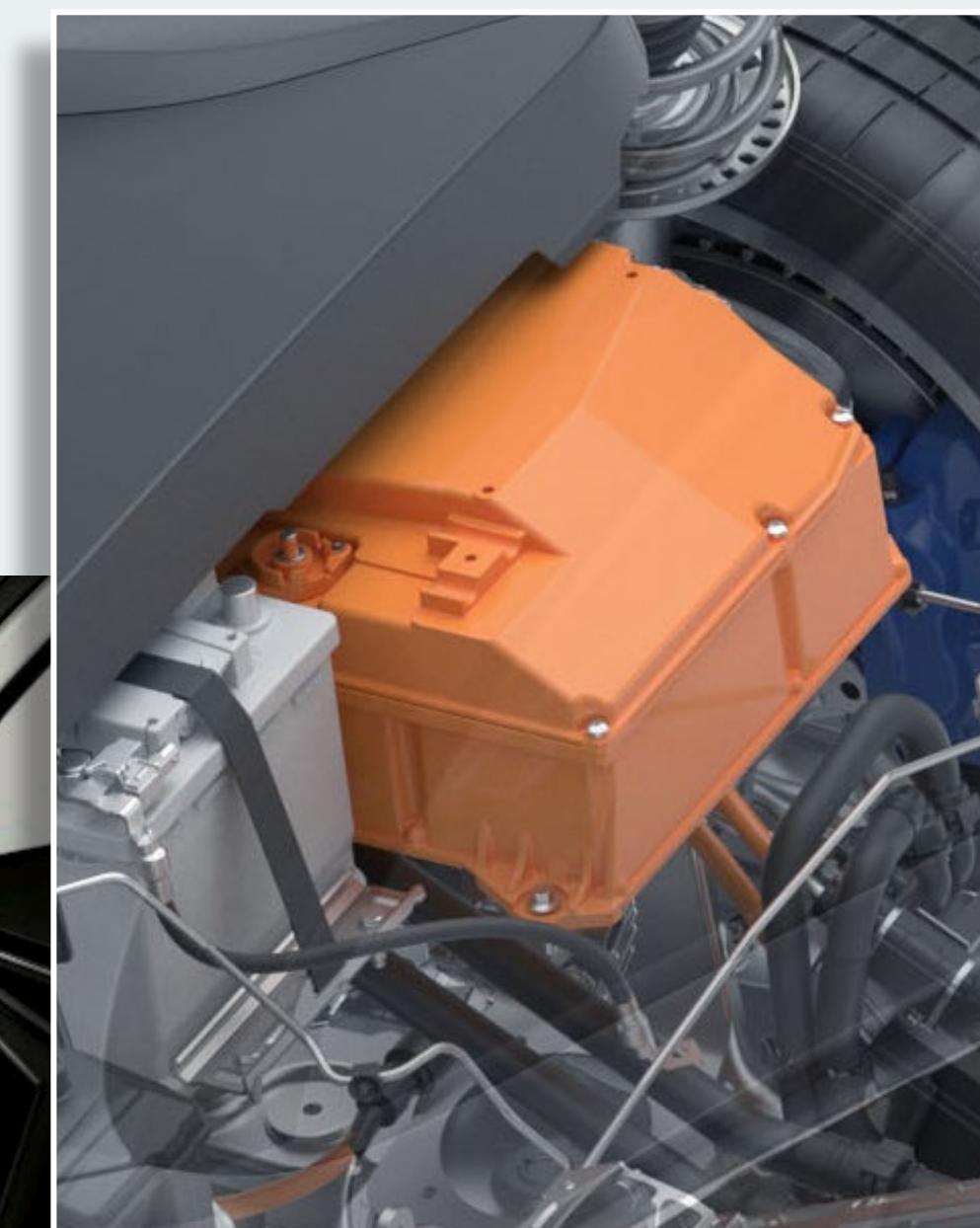
The BMW Group has partnered with German recycling specialist Duesenfeld to establish a method that can achieve a recycling rate of up to 96% of the materials – including graphite and electrolytes.

# THE FIRST-EVER BMW iX3. EFFICIENCY INSTEAD OF EVER GROWING BATTERIES.

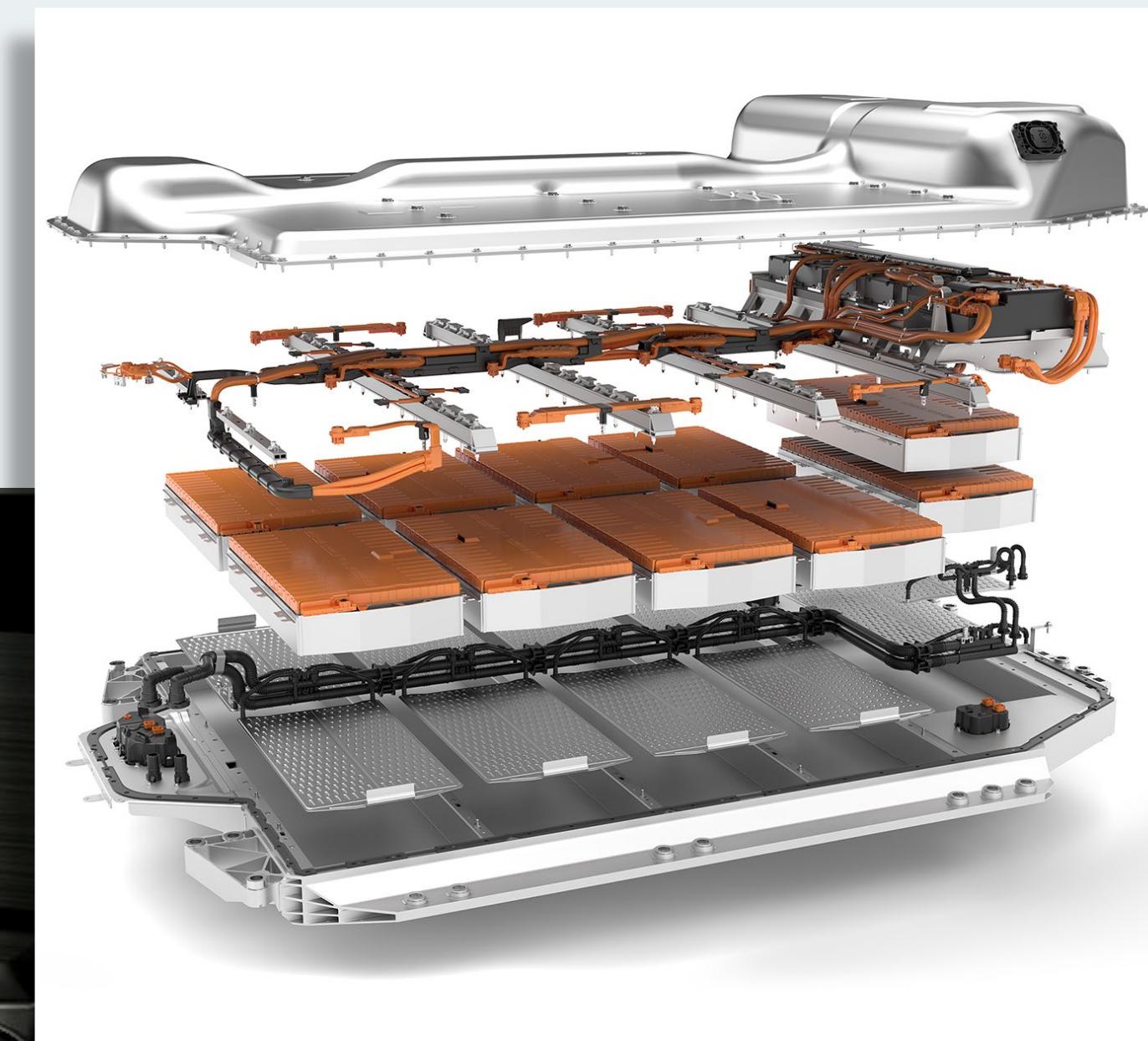
Highly-Integrated  
Electric Drivetrain.



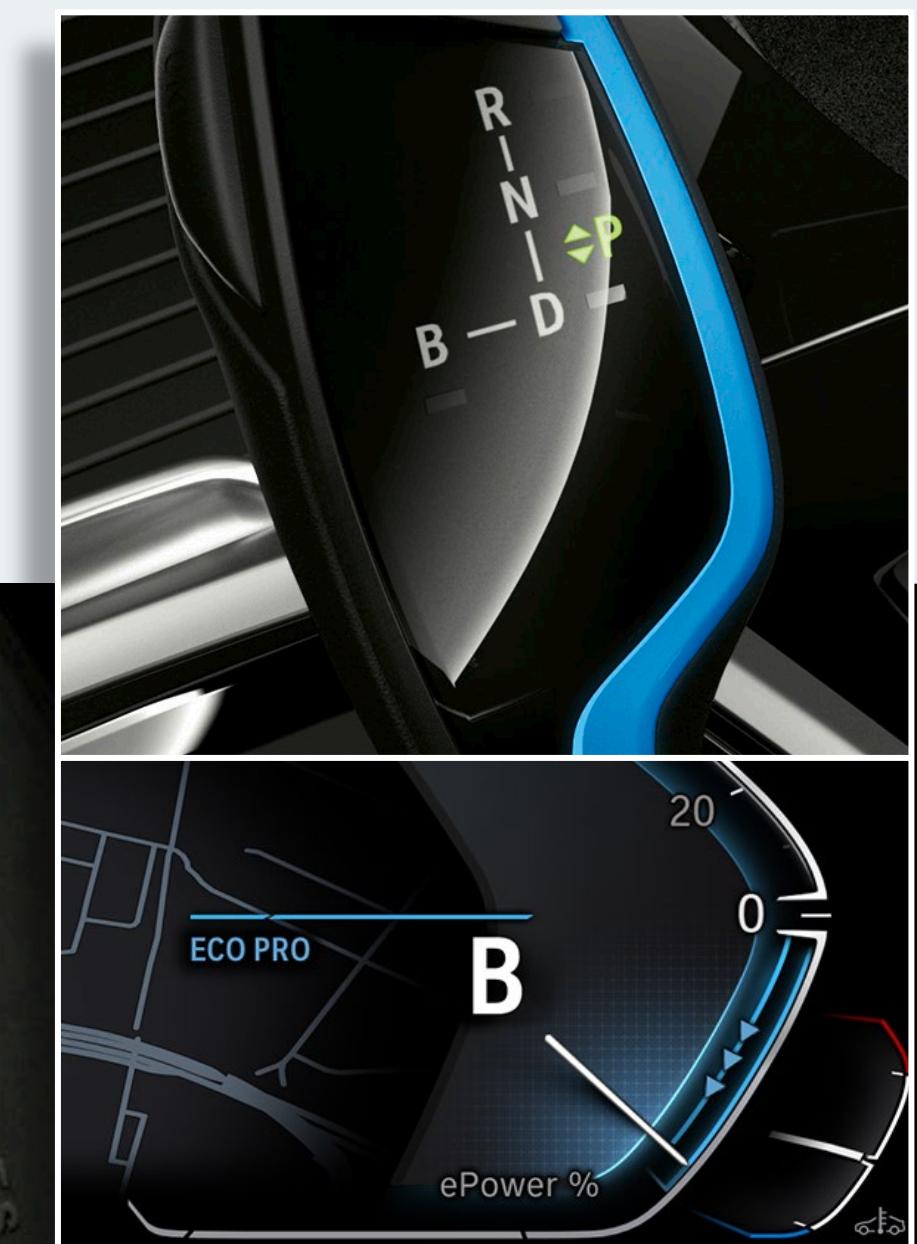
Combined Charging  
Unit (CCU).



High Voltage  
Battery.



Adaptive  
Recuperation.



Aerodynamic  
Wheels.



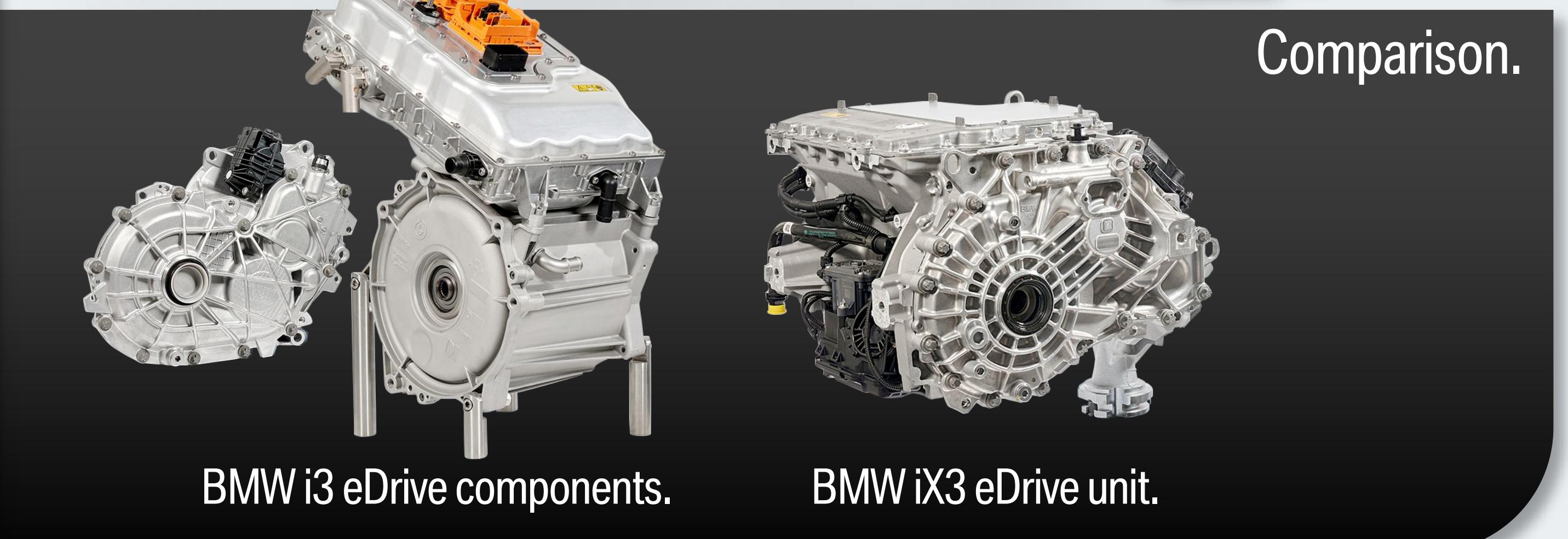
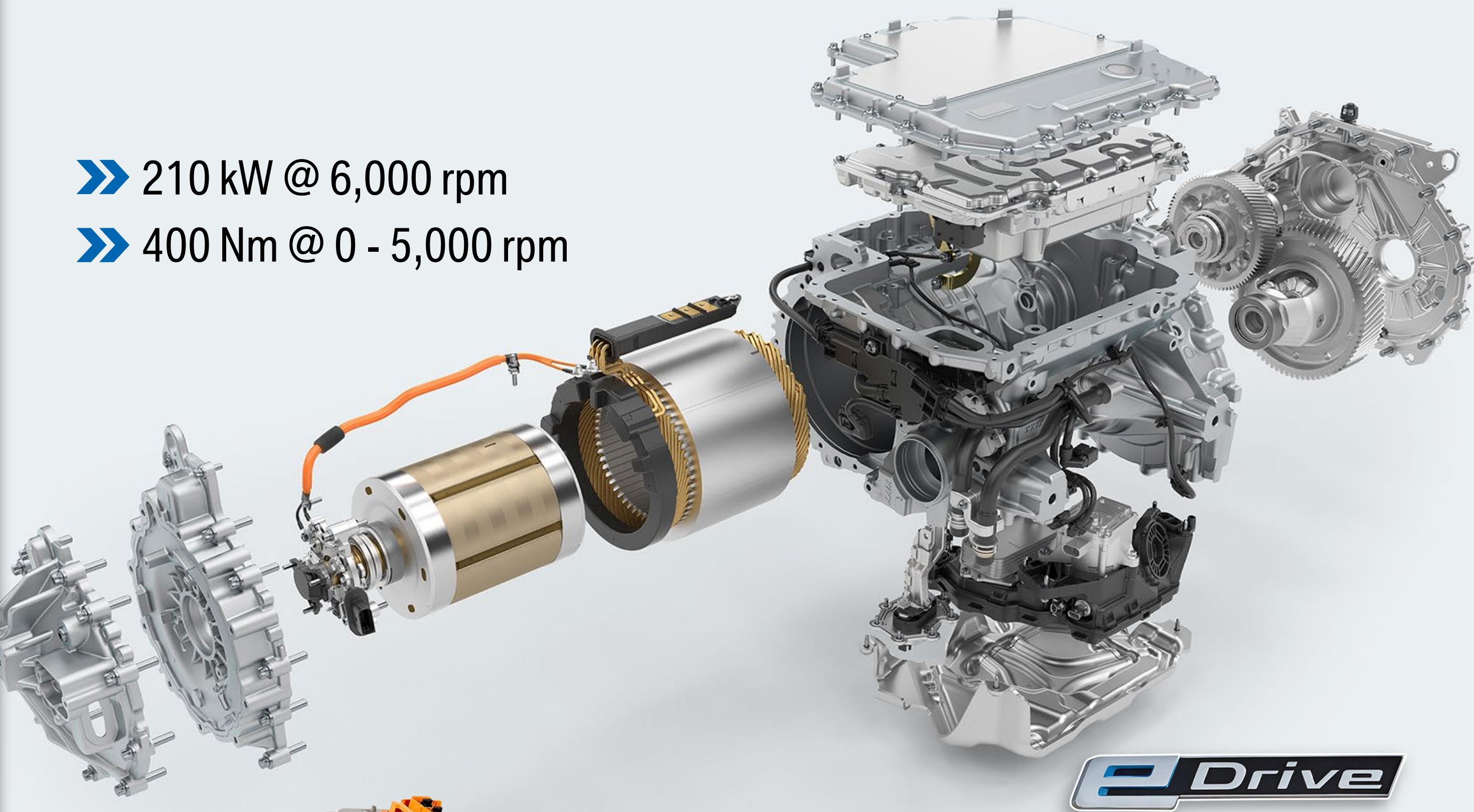
# THE FIRST-EVER BMW iX3. eMOTOR, TRANSMISSION, POWER ELECTRONICS.

## BMW Gen5 eDrive.

- » First-ever use of ESM\* Technology in > 100 kW segment:
  - No magnets and rare earth materials.
  - Exceptional balance of high peak power and stable torque even at high rpm.
  - Silent operation.
  - Main contributor to BMW iX3 efficiency (210 kW / < 20 kW/100 km WLTP).
- » eMotor, power electronics and transmission in a highly integrated, common housing.
- » Comparison to BMW i3 (MY2020):
  - 30% improved power density (based on mass).

\* Electrically Excited Synchronous Machine.

- » 210 kW @ 6,000 rpm
- » 400 Nm @ 0 - 5,000 rpm



BMW i3 eDrive components.

BMW iX3 eDrive unit.

# THE FIRST-EVER BMW iX3. HIGH VOLTAGE BATTERY.

BMW Gen5 eDrive.

» First time use of:

- » BMW-steered Cobalt and Lithium sourcing.
- » CO<sub>2</sub>-free production of battery cells.
- » Each cell individually housed and controlled for longevity and high safety.
- » Enabled for circular economy and 96% cell material recovery.
- » Modular concept for easy exchange of modules in case of repair and for Battery 2<sup>nd</sup> Life.

» Comparison to BMW i3 (MY 2020):

- » 20% improved energy to density (on cell level, based on mass).
- » 62% less Cobalt per kWh.

\*Note:

- NMC = lithium-manganese-cobalt-oxide battery.
- Cell chemistry with 8 shares Nickel, 1 share Manganese, 1 share Cobalt.



- » NMC 811\* prismatic cells.
- » 80 kWh (gross), 74 kWh (net), 400 Volt.

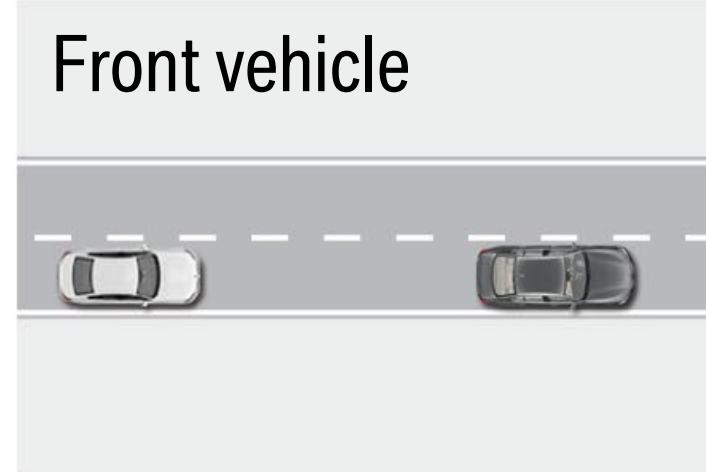


# THE FIRST-EVER BMW iX3. ADAPTIVE RECUPERATION.

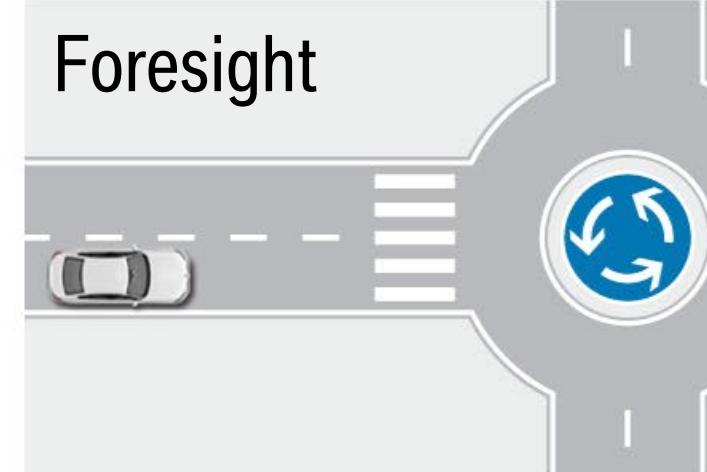
Free road



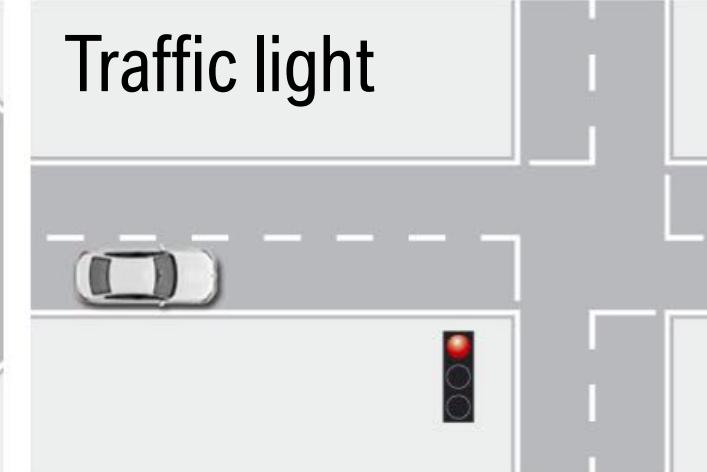
Front vehicle



Foresight



Traffic light



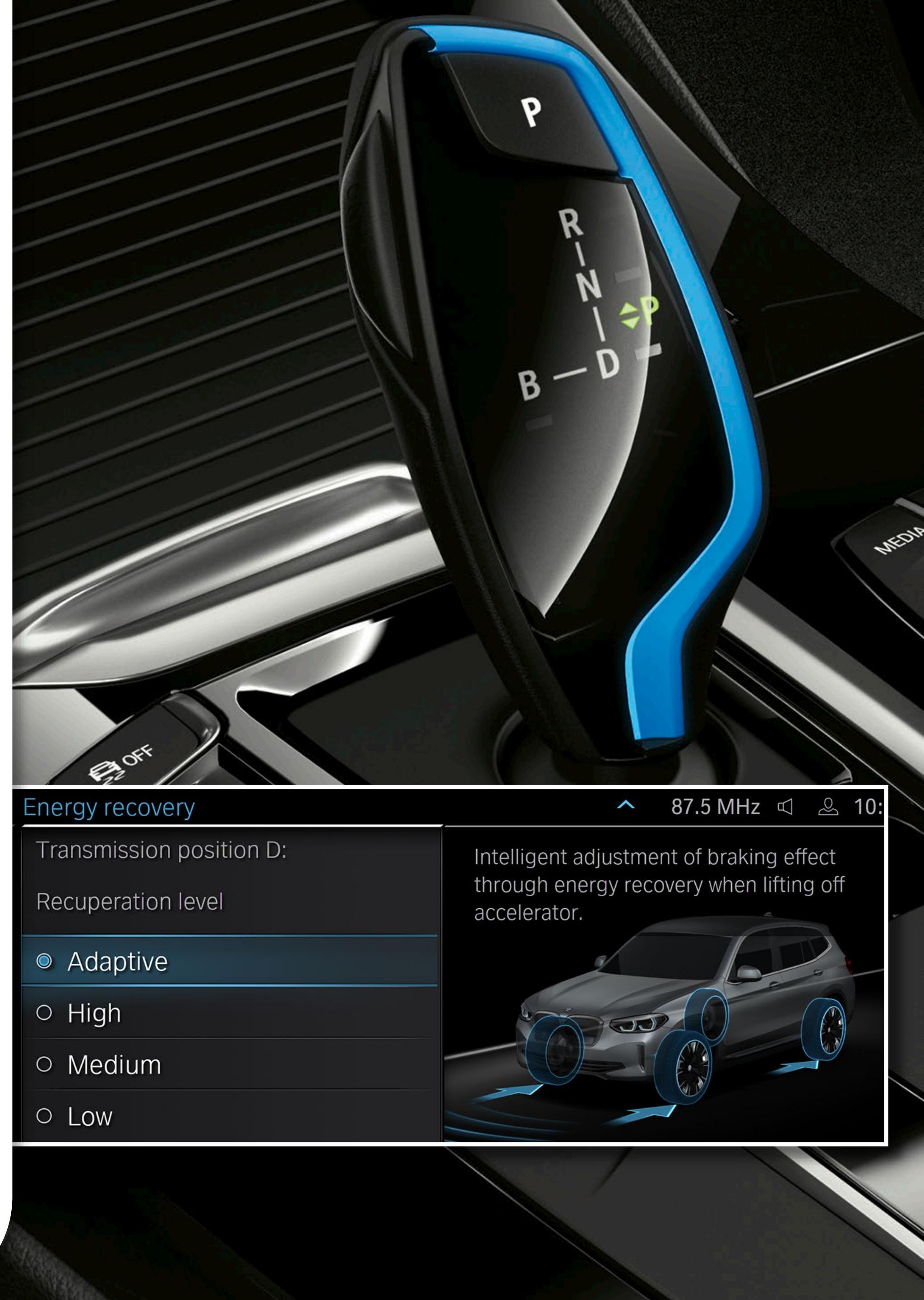
## » Innovation: Adaptive Recuperation

- » Allows for a new balance between high recuperation and driving comfort.
- » Artificial Intelligence (AI) judges environment to decide between recuperation and coasting - even when navigation is switched off.
- » >90% of all “reducing speed situations” can be handled without brake intervention.
- » 25% of the energy needed for the excellent WLTP result come from recuperation.

## Operation

Easy switch between recuperation modes with gear lever:

- » “D” = Adaptive Recuperation.
- » “B” = “One Pedal Operation” (known from BMW i3).



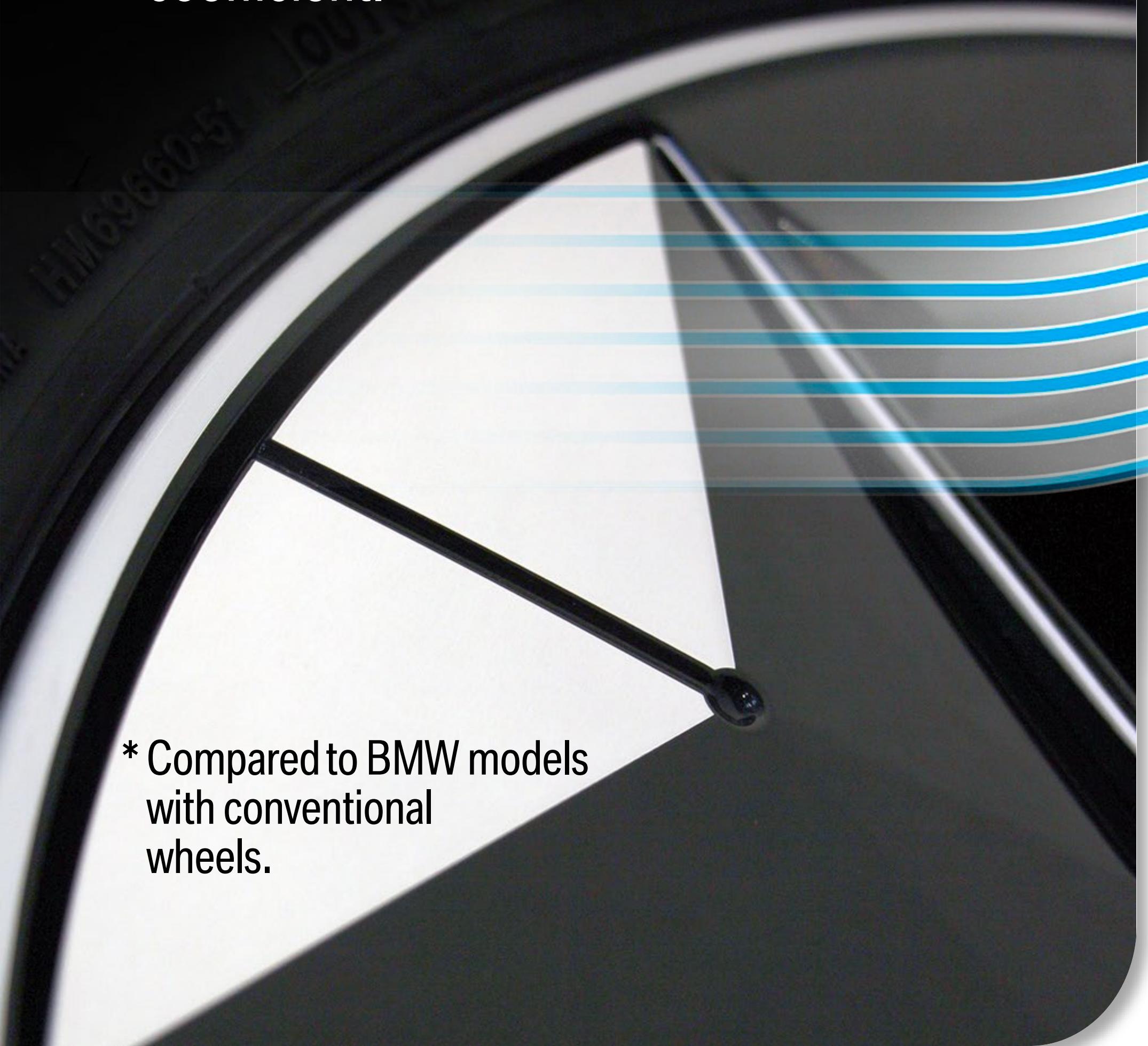
# THE FIRST-EVER BMW iX3. AERODYNAMIC WHEELS.

5%  
less air drag  
coefficient.\*

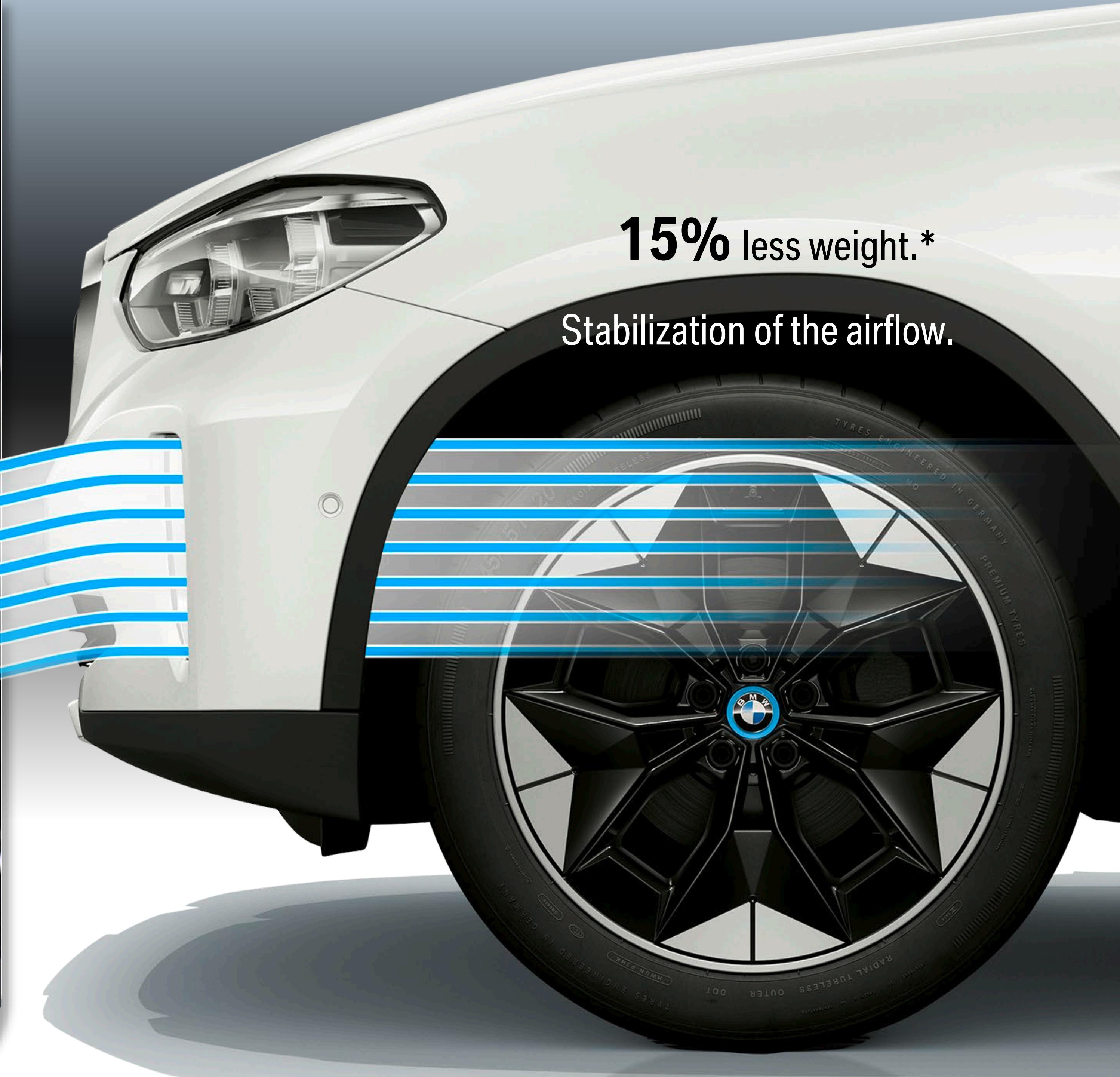
+ 10 km  
range (WLTP).\*

15% less weight.\*

Stabilization of the airflow.



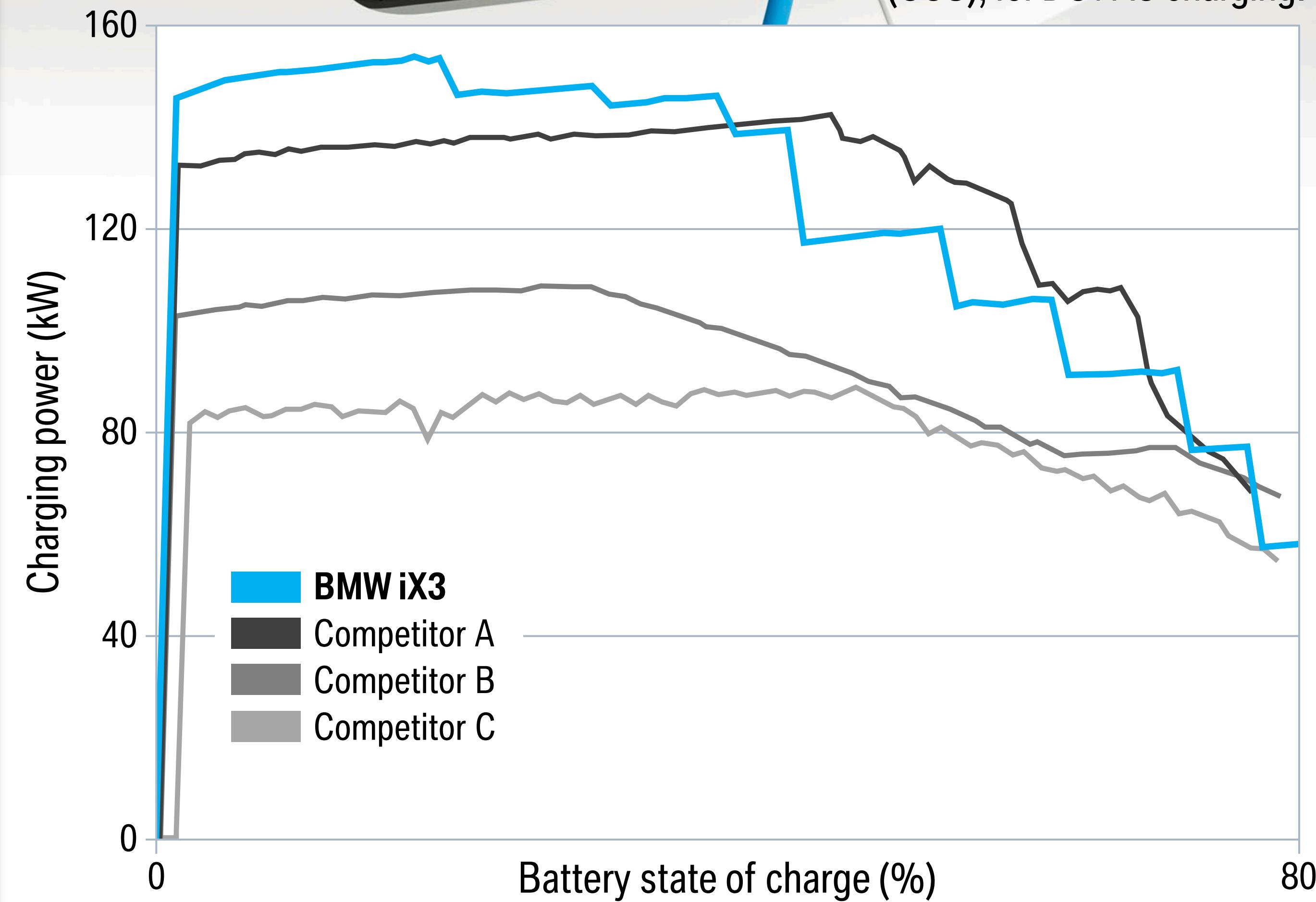
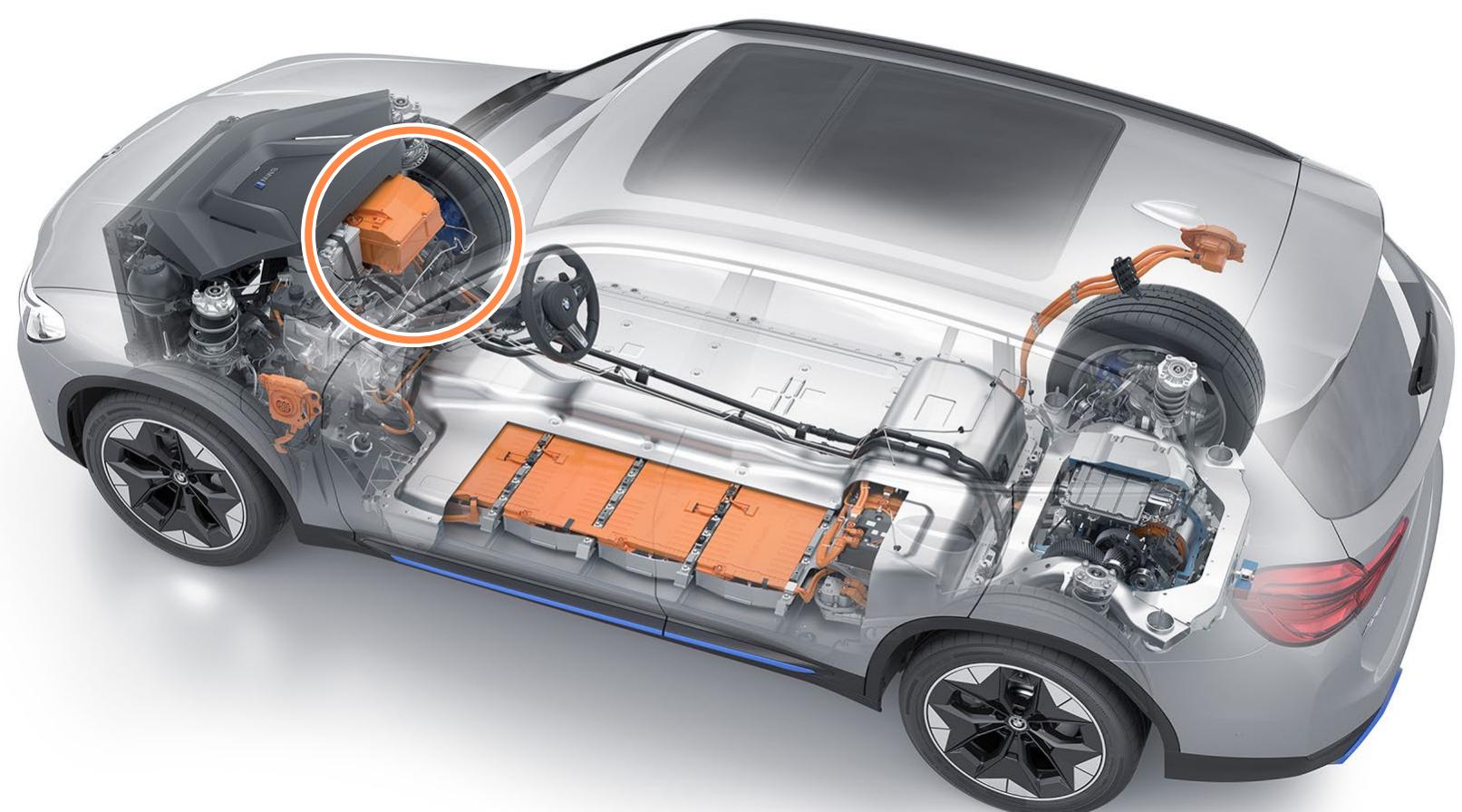
\* Compared to BMW models  
with conventional  
wheels.



# THE FIRST-EVER BMW iX3. CHARGING.

BMW Gen5 eDrive.

- » First time use of:
  - 150kW DC charging power.
  - New DC charging profile for best balance of quick charging time versus longevity.
  - Reaches and sustains maximum charging power early in the charging process.
  - Automatic switch between 1- or 3-phase AC-operation, depending on grid.



# THE FIRST-EVER BMW iX3. NEW CONNECTED CHARGING SERVICES.



A blue circle on the map gives you an immediate indication if your destination is in range. When searching for a charging station, you can also set a filter to display DC charging stations.



The charging port is located conveniently on the rear right side of the vehicle – where the fuel flap of a conventionally-powered X3 is.



2:22 22 9:34 34

Where do you want to go?

Charging Fuel Parking

SEARCH IN THIS AREA

Compatible BMW/MINI Charging Fast charging All filters

**DC Greenlots**  
2.0 km · 59 Loyang Drive, 508969 Singapore  
Open · Open 24 hours

**DC/AC Greenlots**  
6.2 km · Shell Punggol Station - 821 Punggol Rd, 829169 Singapore  
Open · Open 24 hours

**DC/AC Greenlots**

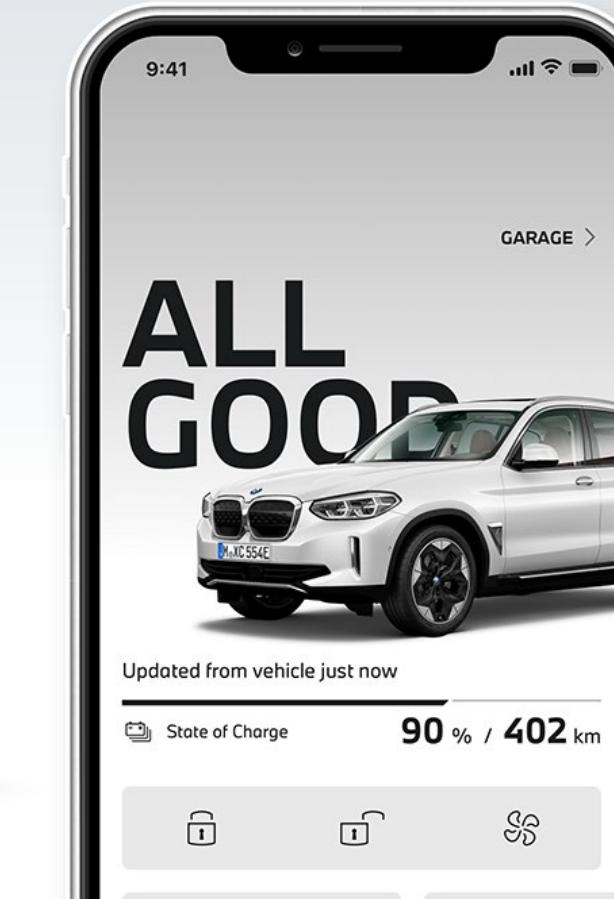
# THE FIRST-EVER BMW iX3. BMW CHARGING – AT HOME.



- Standard charging cable.
- BMW Wallbox.
- Installation Service.



Charging type	Charging point	Approximate charging time
<b>Standard AC charging (0 to 100%)</b>		
3.7 kW, single phase	BMW Wallbox, public chargers	20 hours
7.4 kW, single phase		10 hours
11 kW, three phase		7.5 hours

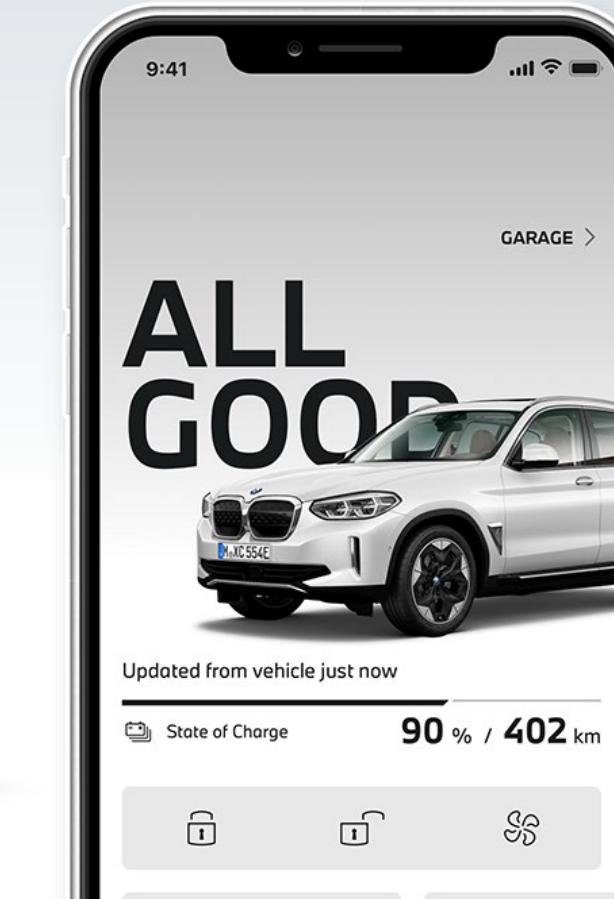


**BMW Connected Charging:**  
Push notifications inform you  
on the charging process and  
current status

# THE FIRST-EVER BMW iX3. BMW CHARGING - PUBLIC.



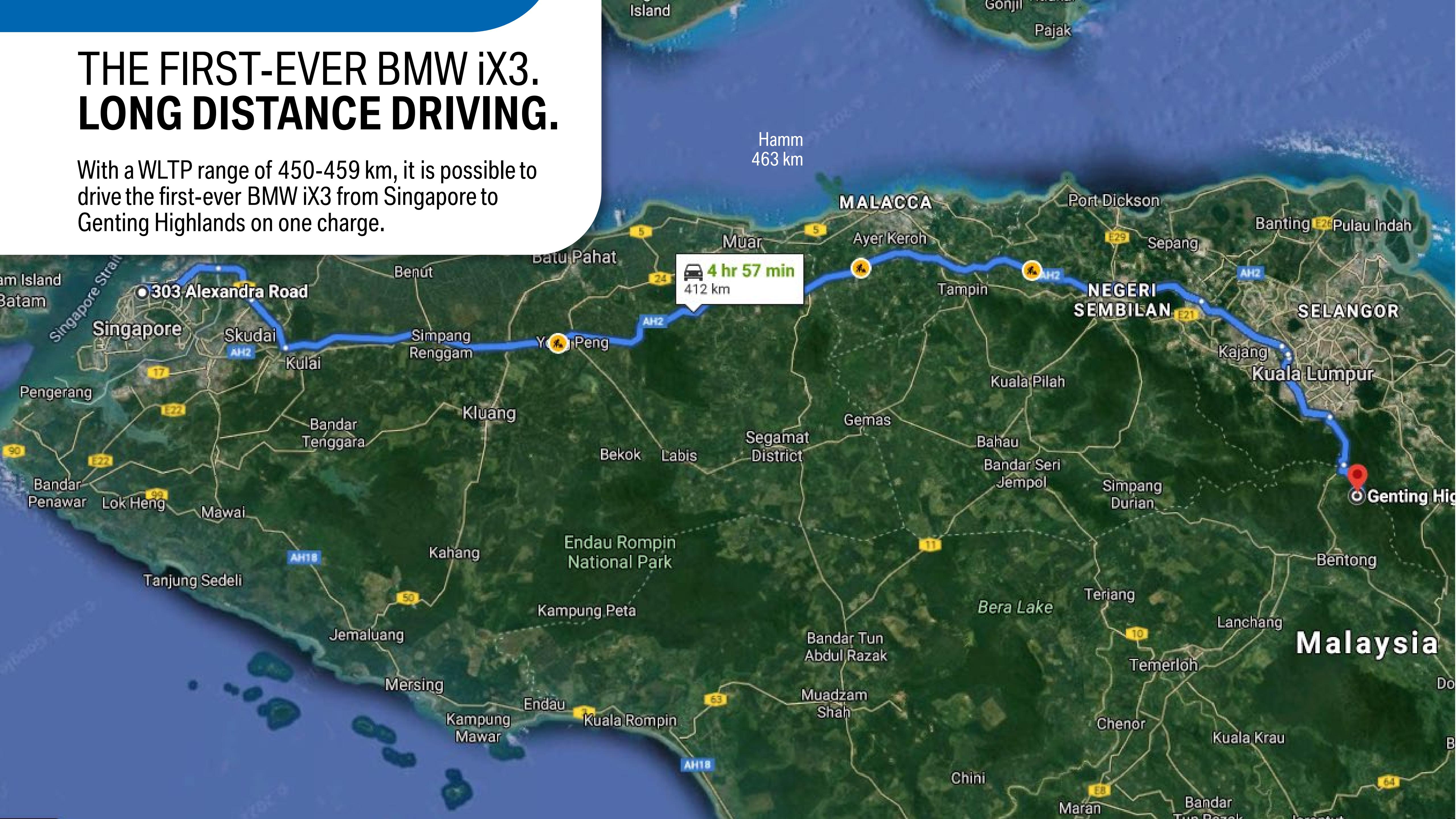
Charging type	Charging point	Approximate charging time
<b>0 to 100%</b>		
AC, 11 kW	BMW Wallbox, public chargers	7.5 hours
<b>0 to 80%</b>		
DC, 50 kW	Public chargers	1.5 hours
DC, 50 kW	Public chargers	1.2 hours
DC, 100 kW	Public chargers	50 mins
DC, 150 kW	Upcoming	35 mins



**BMW Connected Charging:**  
Push notifications inform you  
on the charging process and  
current status

# THE FIRST-EVER BMW iX3. LONG DISTANCE DRIVING.

With a WLTP range of 450-459 km, it is possible to drive the first-ever BMW iX3 from Singapore to Genting Highlands on one charge.



# THE FIRST-EVER BMW iX3.



# THE FIRST-EVER BMW iX3. IMPRESSIVE TRIM.

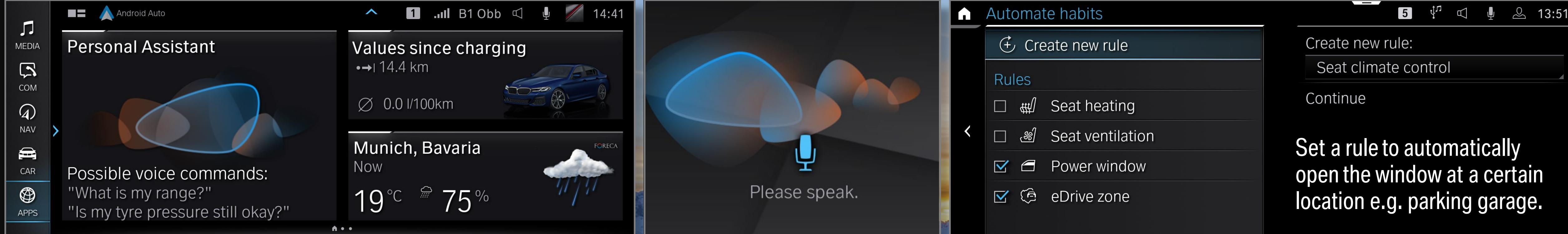
Live Cockpit Professional  
Head-up Display  
Operating System 7.0

Panoramic sunroof

Vernasca leather  
Harman Kardon sound system



# THE FIRST-EVER BMW iX3. BMW INTELLIGENT PERSONAL ASSISTANT.



The image shows the BMW iX3's infotainment system displaying the Personal Assistant interface. The screen is divided into several sections: a sidebar with icons for MEDIA, COM, NAV, CAR, and APPS; a top bar with Android Auto, signal strength, battery level, and time (14:41); a 'Personal Assistant' section with a blue and orange abstract graphic; a 'Values since charging' section showing 14.4 km and 0.0 l/100km; a weather forecast for Munich, Bavaria, showing 19°C and 75% humidity; a central 'Please speak.' button with a microphone icon; and a 'Automate habits' section for creating new rules, with checkboxes for Seat heating, Seat ventilation, Power window (checked), and eDrive zone (checked). A large text overlay on the right says: 'Set a rule to automatically open the window at a certain location e.g. parking garage.'

Now with extended speech control



# BMW DIGITAL KEY.

First available on the BMW 5 Series, and now on the first-ever BMW iX3.

Owner setup  
Create “main key”.

Via the My BMW app.



The Digital Key is stored  
in the Apple Wallet App.

Alternatively the Key  
can be created via Email.

01

Unlock  
car.

Hold iPhone or Apple Watch  
to door handle.



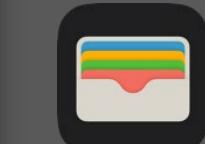
02  
Start  
engine.

Place iPhone or Apple Watch in  
smartphone tray.



03  
Invite  
friends.

The owner can invite up to five  
friends via the Apple Wallet App.



04  
Young  
drivers key.

The owner can share access  
with restricted capabilities.

Features:

Restricted horse power.  
Restricted top speed (140 km/h).  
Restricted radio volume.  
DSC off not allowed.  
Intelligent safety all off not allowed.





# YOUR WORLD. My BMW.

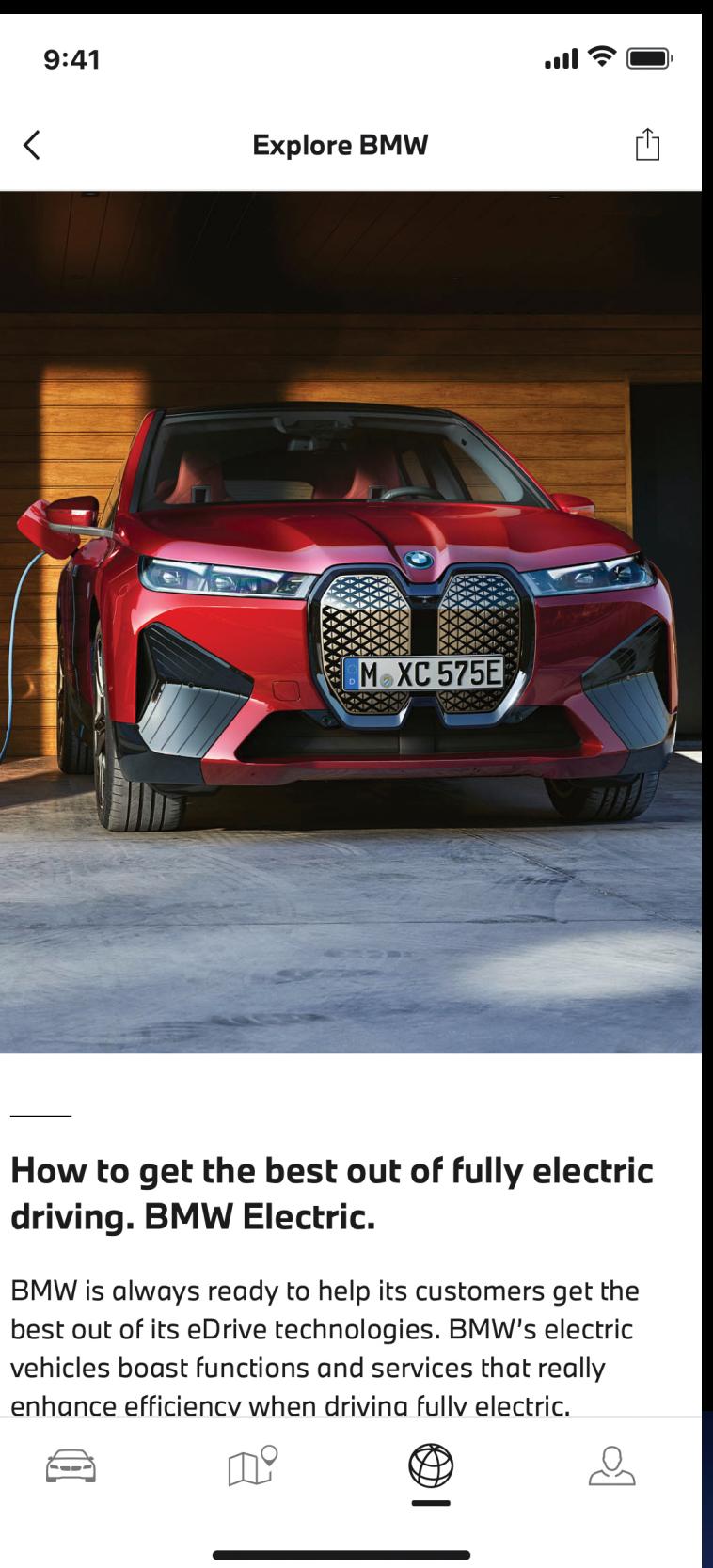
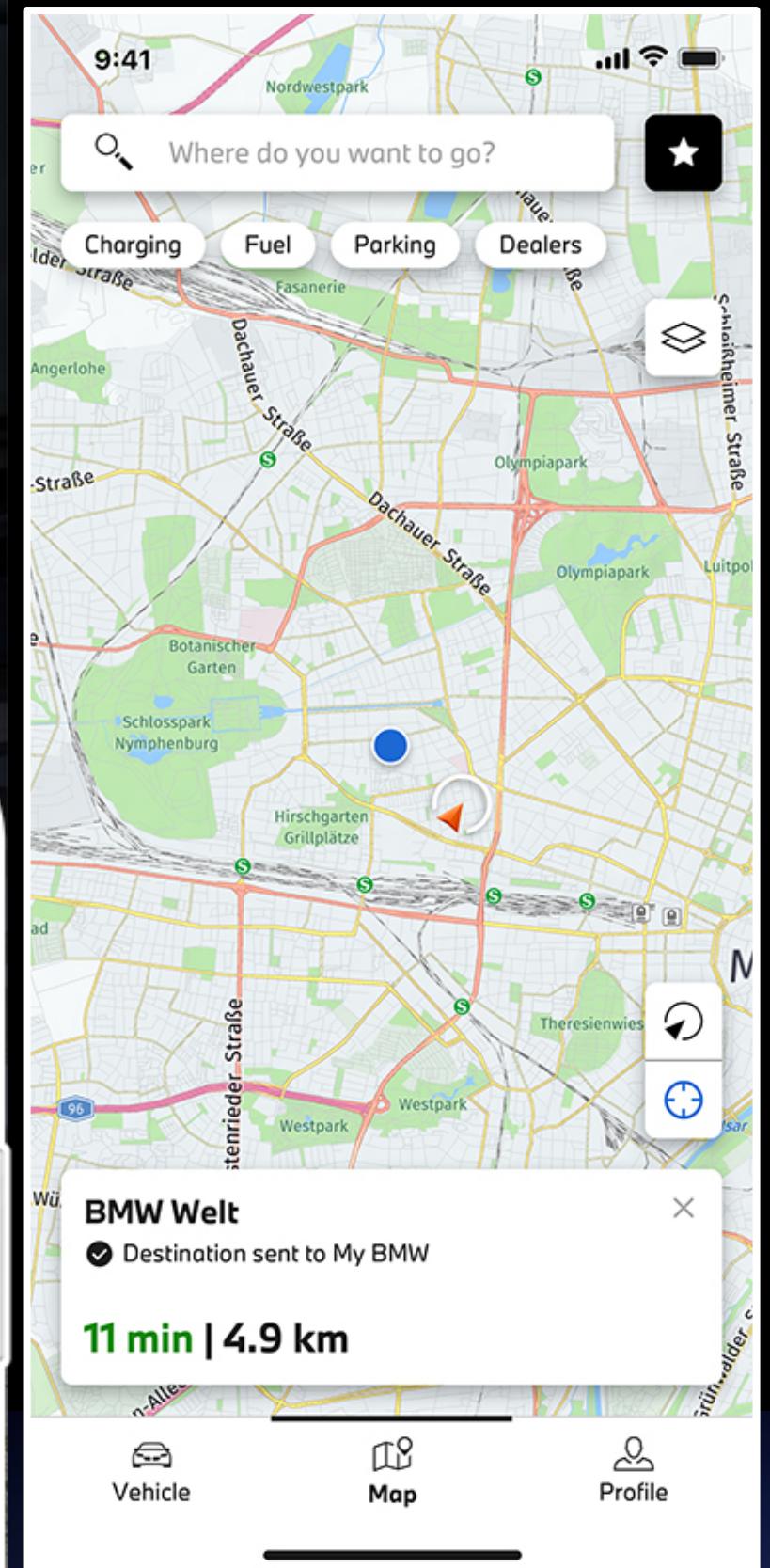
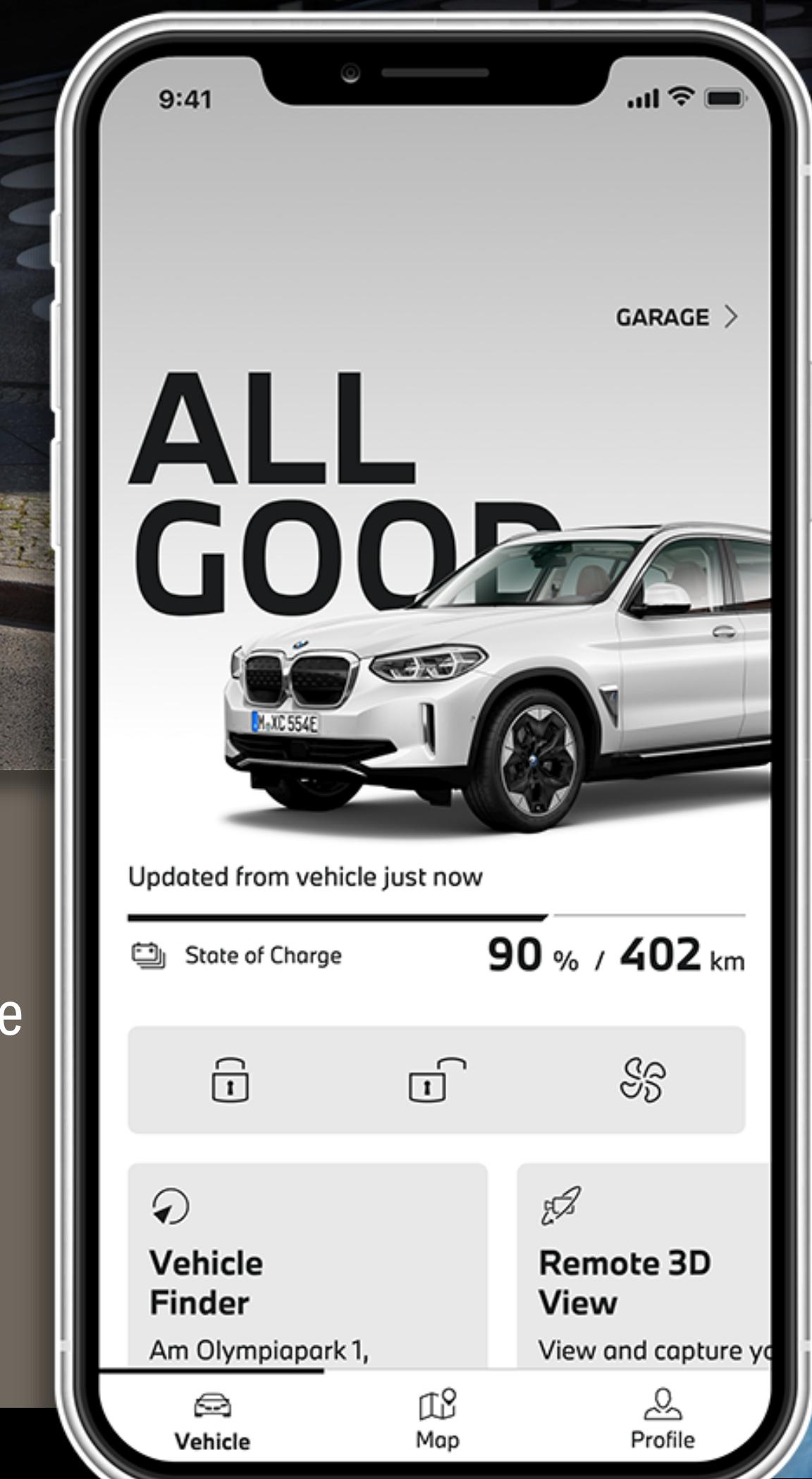
ALWAYS CONNECTED. The new **My BMW App**.

Improved performance

New design with an intuitive user experience

Preview routes on your phone and send it to your BMW

Check the status of your car wherever you are



Can be downloaded free of charge from the Google Play Store and the Apple App Store.

# THANK YOU!

