

DRIVE TOMORROW, TODAY.





BMW

WELCOMES YOU

#bornelectric



DELIVERED AS PROMISED

IN 2021 THE BMW GROUP LAUNCHED 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
- Wide choice of options for individualisation
- Refinement & built quality
- Service & repair quality

BMW Operating System 8

BMW i4 FOCUS:

- The ultimate driving machine
- Long distance driving comfort
- Elegance and practicability

First ever BEV from BMW M with i4 M50



NATIONAL MEDIA LAUNCH AGENDA



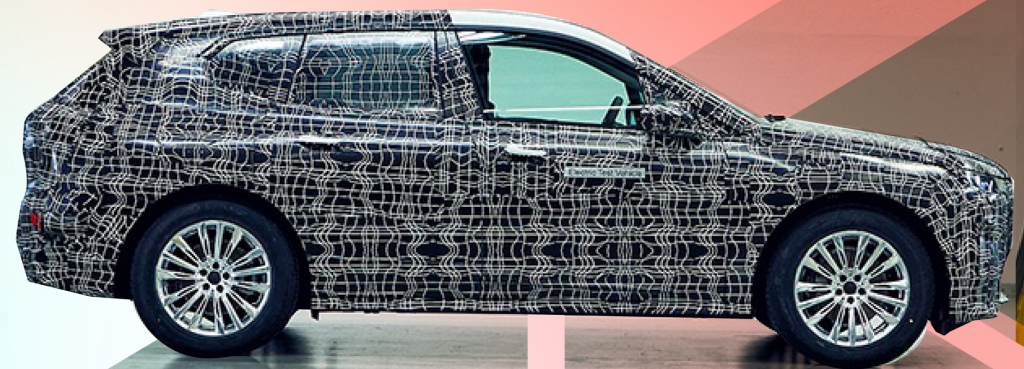
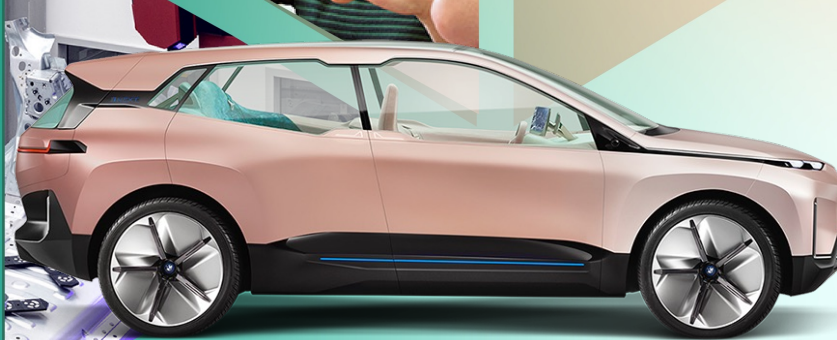
BMW iX
PRODUCT
SUBSTANCE

BMW GEN5
DRIVETRAIN
& CHARGING

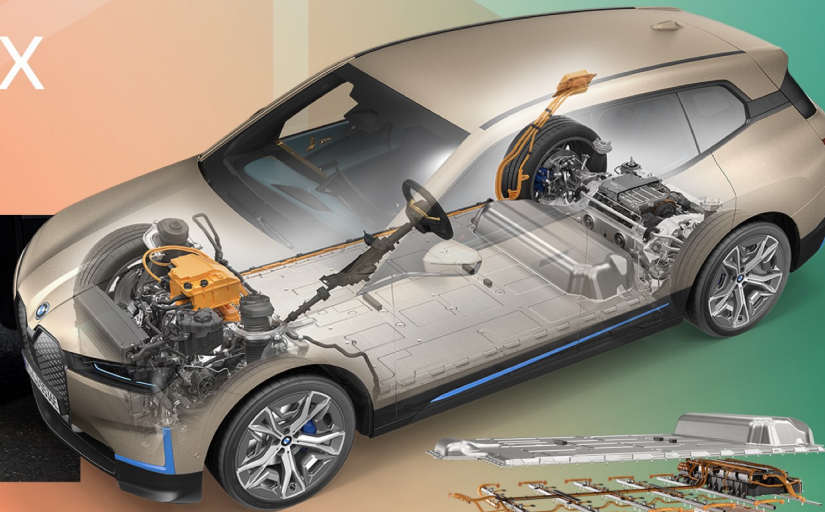
DRIVING
DYNAMICS &
ASSISTANCE

BMW iDRIVE

FROM THE BMW iNEXT TO THE BMW iX



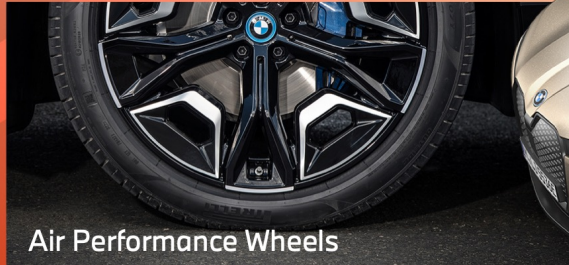
THE FIRST-EVER BMW iX TECHNICAL HIGHLIGHTS



Extremely high level
of computing power,
exceptionally powerful
sensors, 5G capability



Self healing kidney

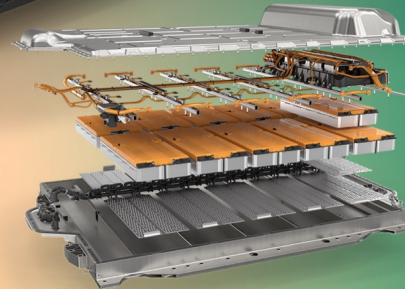


Air Performance Wheels



High
proportion
of recycled
and natural
materials

Components of battery-
electric drive system
architecture



Panoramic glass roof with
electrochromic shading



BMW Curved
Display



Latest driver
assistance
systems



New
iDrive
system



SHY TECH
Seats with
heated surfaces



Integrated rear-
view camera
and cleaning
system



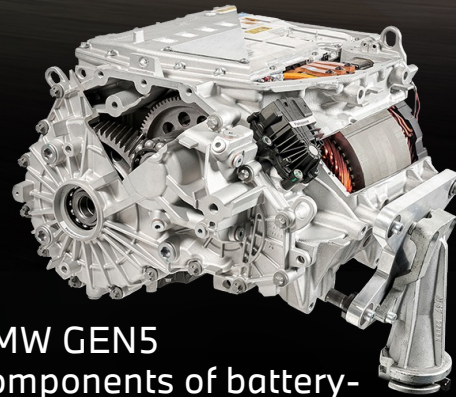
NATIONAL MEDIA LAUNCH THE FIRST-EVER BMW iX



Sustainability
in product
design and
manufacturing



Produced 100%
with local
hydropower



BMW GEN5
Components of battery-
electric drive system architecture

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



Modern interior
paired with the latest
connectivity features

THE FIRST-EVER BMW iX FLEXIBLE SCALABLE eDrive SYSTEM

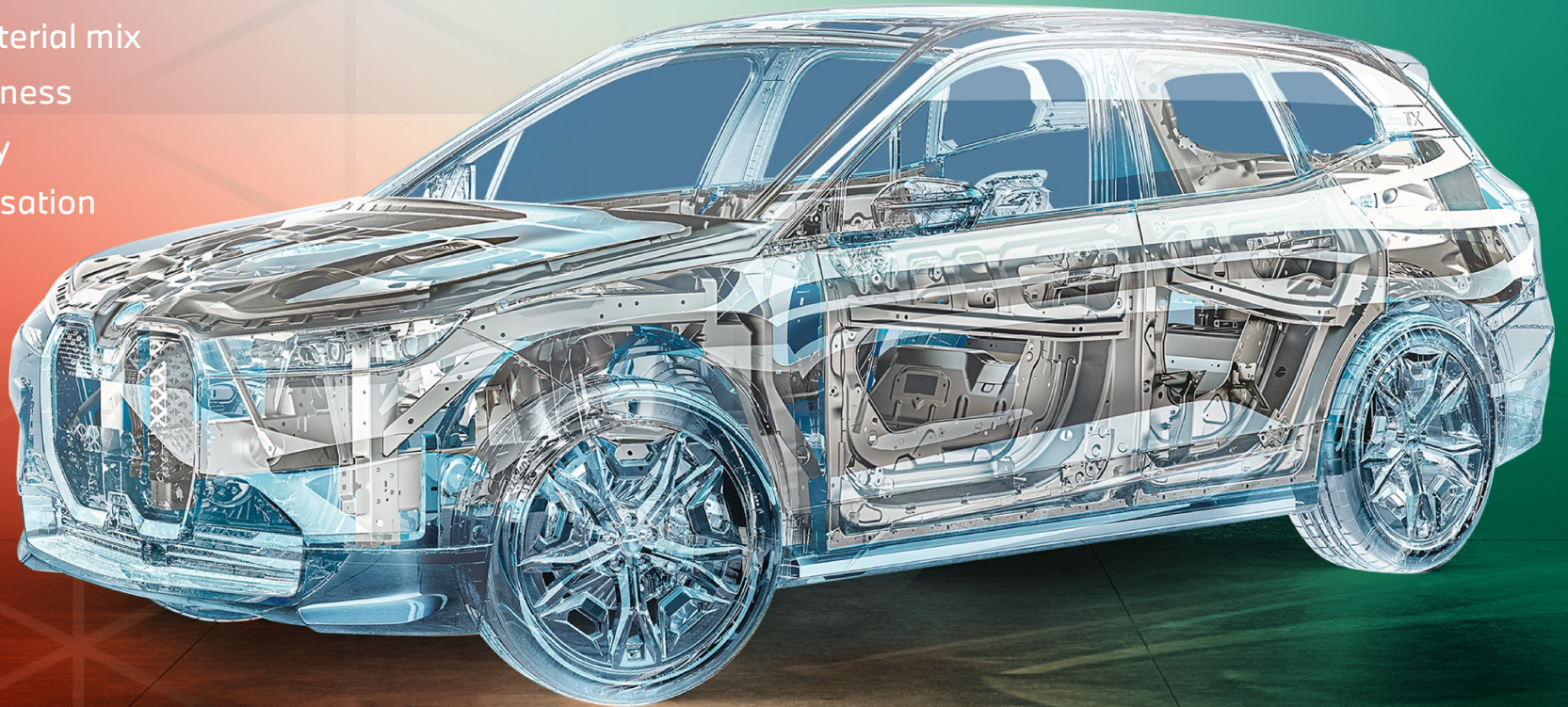


	BMW iX xDrive40	BMW iX xDrive50
Maximum system output	240 kW	385 kW
Maximum system torque	630 Nm	765 Nm
Acceleration (0-100 km/h)	6.1 sec	4.6 sec
Range (WLTP)	up to 425 km	up to 630 km
Top speed (electronically governed)	200 km/h	200 km/h

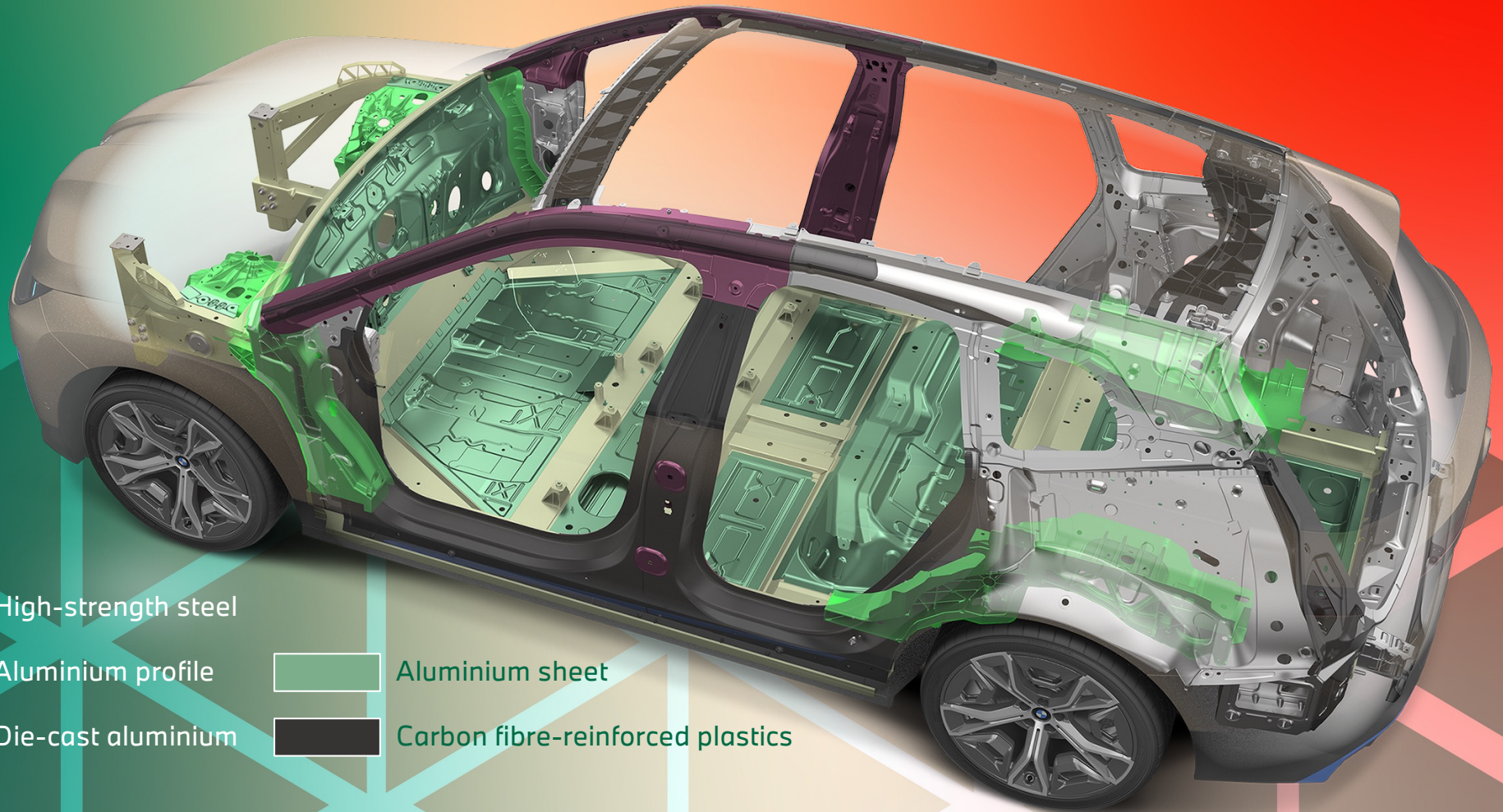
THE FIRST-EVER BMW iX INTELLIGENT LIGHTWEIGHT DESIGN



- Intelligent material mix
- Torsional stiffness
- Passive safety
- Weight optimisation



THE FIRST-EVER BMW iX INTELLIGENT MATERIAL MIX



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

THE FIRST-EVER BMW iX AIR PERFORMANCE WHEELS

21"



22"



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



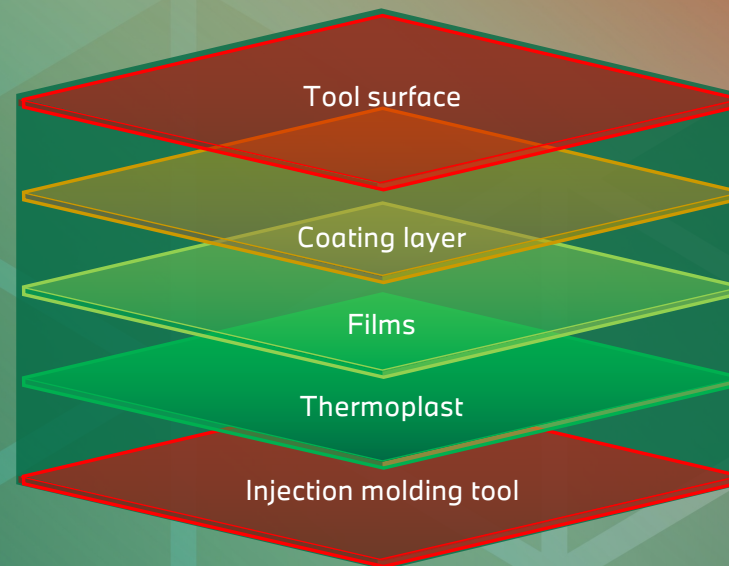
Design
Elegant design in the customer's choice of colour and finish

THE FIRST-EVER BMW iX

SMART SURFACES – KIDNEY GRILLE WITH SELF-HEALING SURFACE



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.



NATIONAL MEDIA LAUNCH AGENDA



BMW iX
PRODUCT
SUBSTANCE

BMW GEN5
DRIVETRAIN
& CHARGING

DRIVING
DYNAMICS &
ASSISTANCE

BMW iDRIVE

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



BMW GEN3



BMW GEN4



MINI e



BMW Concept
Active E



BMW i3



BMW X5 xDrive45e



BMW 745e



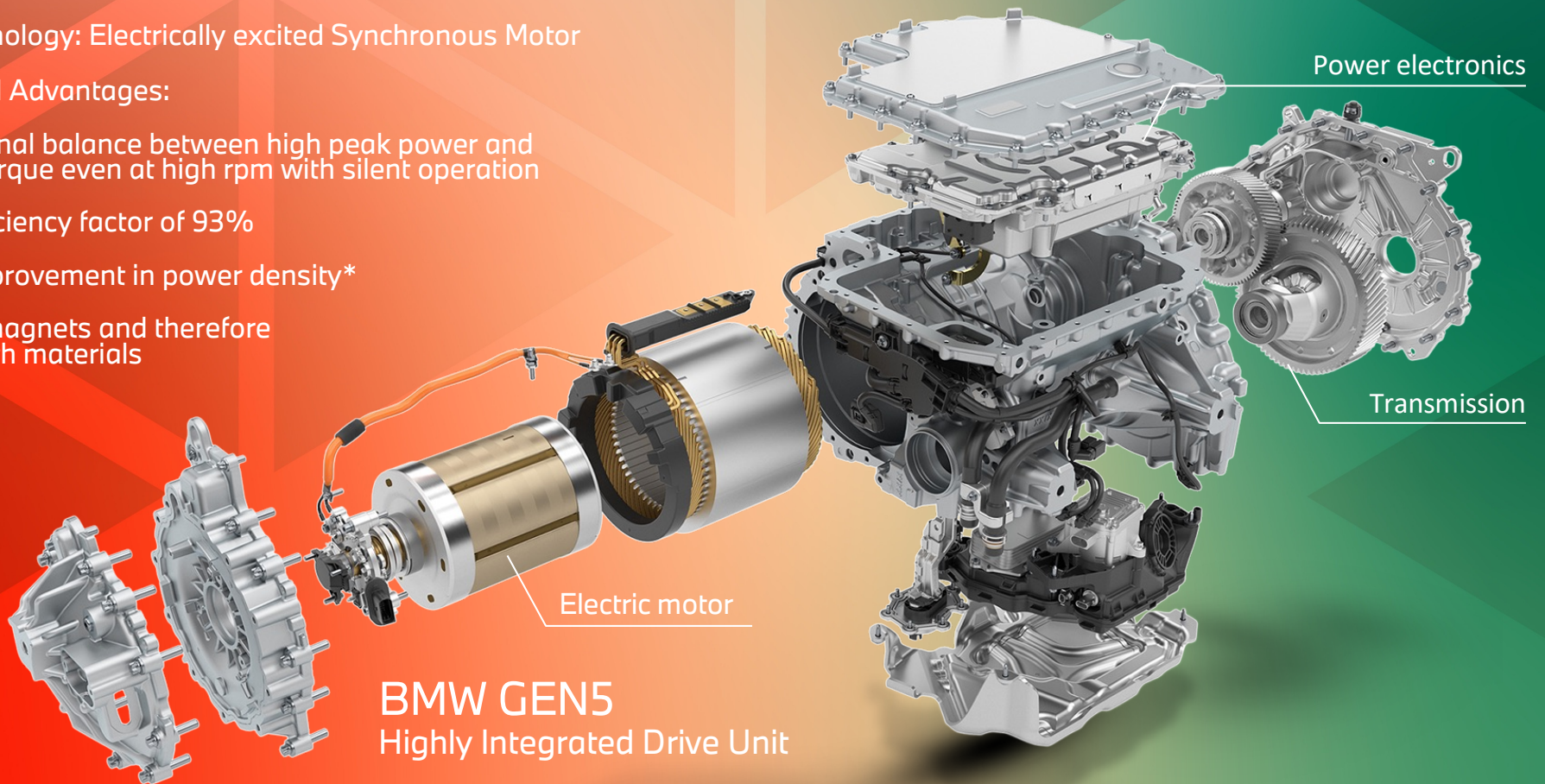
BMW GEN5 HIGHLY INTEGRATED DRIVE UNIT

"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

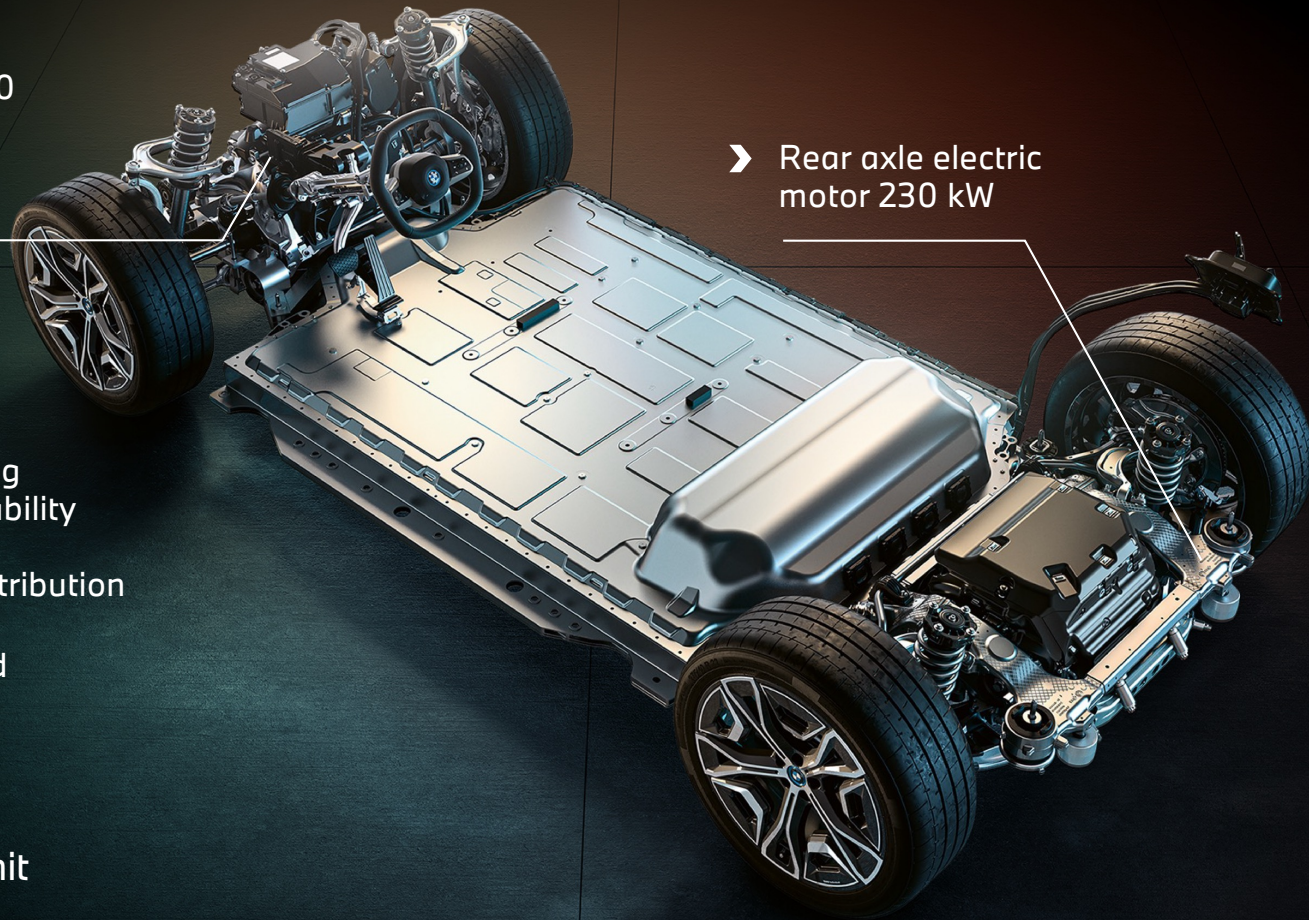
➤ Near-actuator wheel slip
control delivers outstanding
traction and directional stability

➤ Extremely quick power distribution

➤ Maximum dynamics paired
with maximum efficiency

BMW GEN5

Highly Integrated Drive Unit

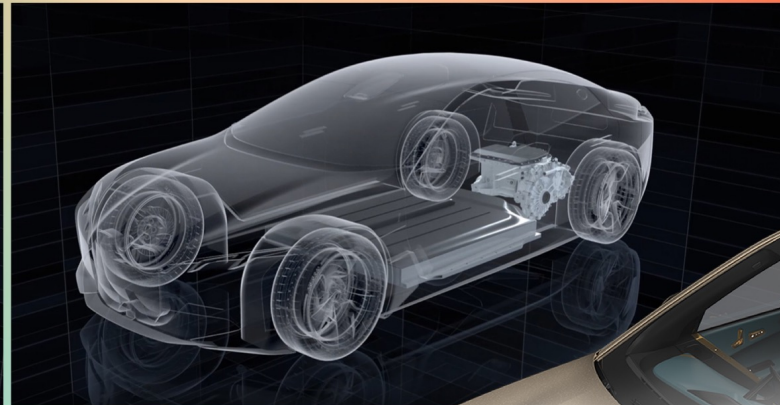
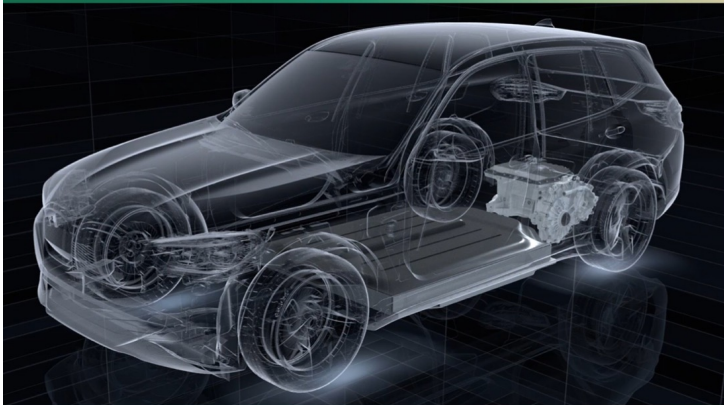




BMW GEN5

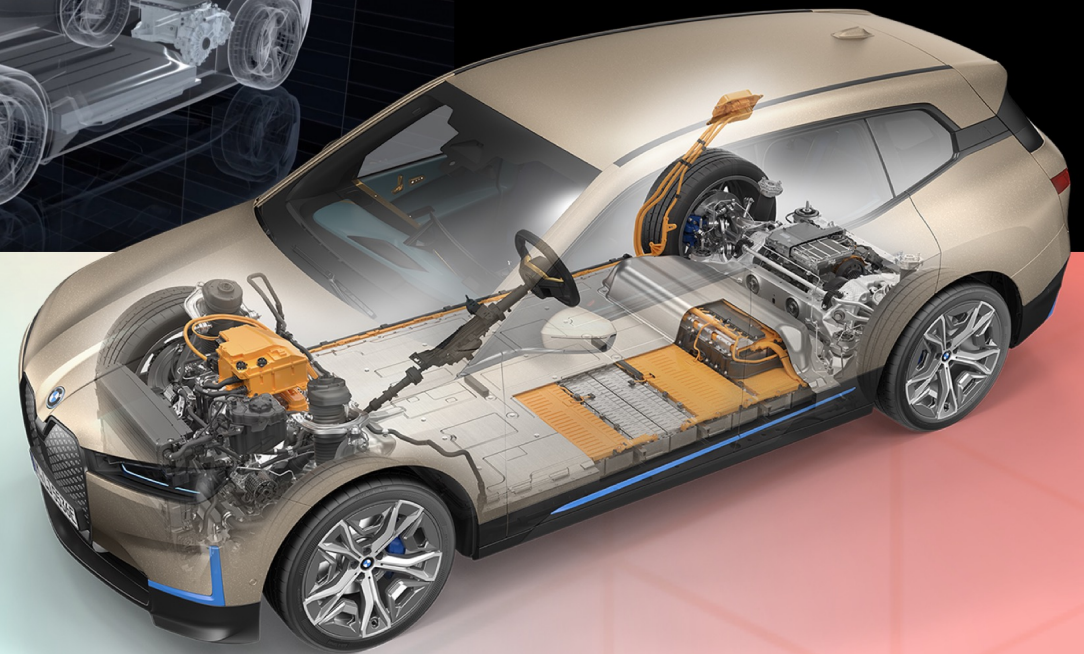
A HIGHLY INTEGRATED SCALABLE AND MODULAR SYSTEM

- 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



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

BMW GEN5 Highly Integrated Drive Unit



NATIONAL MEDIA LAUNCH AGENDA



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DRIVETRAIN
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DRIVING
DYNAMICS &
ASSISTANCE

BMW iDRIVE

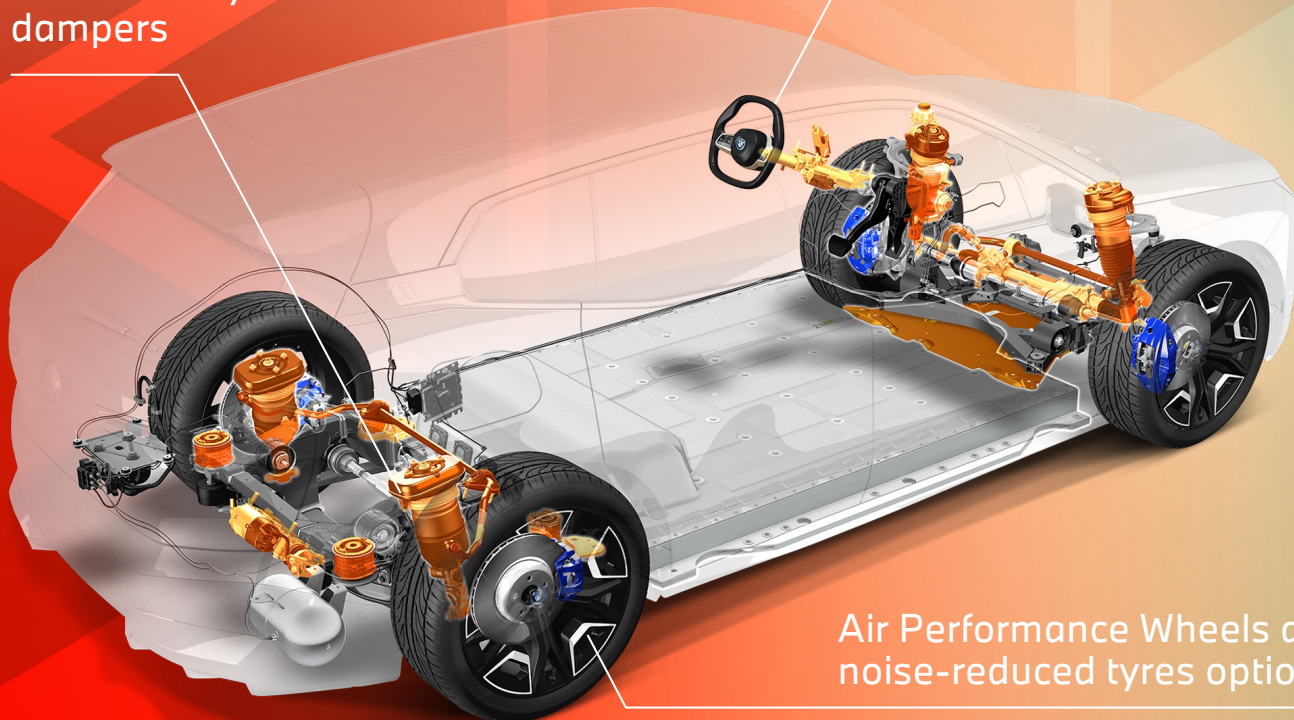
THE FIRST-EVER BMW iX DRIVING DYNAMICS



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

Integral Active
Steering

Comfort combined with
fleet-footed agility



Air Performance Wheels and
noise-reduced tyres optional



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



THE FIRST-EVER BMW iX



DRIVING
ASSISTANCE
SYSTEMS



THE FIRST-EVER BMW iX

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

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



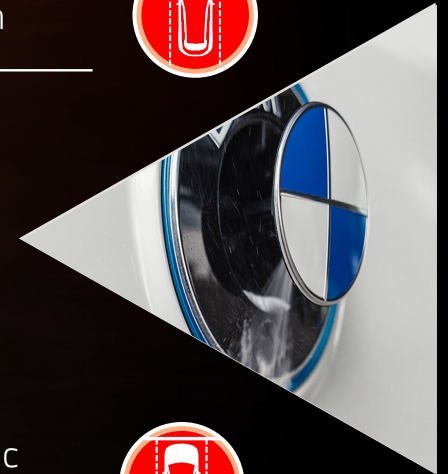
Sensor-setup for parking



THE FIRST-EVER BMW iX 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



NATIONAL MEDIA LAUNCH AGENDA



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BMW iDRIVE

NATIONAL MEDIA LAUNCH BMW iX

THE ALL-NEW BMW iDrive



FOCUS:

- Both cars are first cars to be launched with all-new BMW iDrive
- Broadest range of digital products and services

BMW iDrive

- The Intelligent Fusion of sensing



THE ALL-NEW BMW iDrive

BREAKTHROUGH IN ACTIVE SAFETY, INTUITIVENESS & ERGONOMY



BMW CURVED DISPLAY
Driver oriented Cockpit.

CLEVER SIMPLICITY
Less switches, but not switchless.

CRAFTED CLARITY
Sculptural Control Elements.

THE ALL-NEW BMW iDrive

DRIVER ORIENTATION, PRECISION, INDIVIDUALISATION



Empowers to become the ultimate driver

PERFECT
SYMBIOSIS

93 km/h
Head-Up Display
Driving Instructions
➤ Act

Information display
Driver Orientation
➤ Locate

Control display
Information Overview
➤ Inform



THE ALL-NEW BMW iDrive

DRIVER ORIENTATION, PRECISION, INDIVIDUALISATION



Inspired by

Individuality – suited for every preference



Personal Mode

- Individual options
- Balanced driving characteristics
- Individual lighting settings

Inspired by

Racing – emphasised 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

BMW MAPS

NAVIGATION WITH AUGMENTED VIEW



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





DELIVERED AS PROMISED: IN 2021 THE BMW GROUP LAUNCHED 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 individualisation
- 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 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

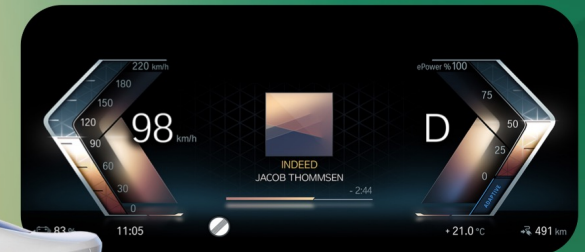
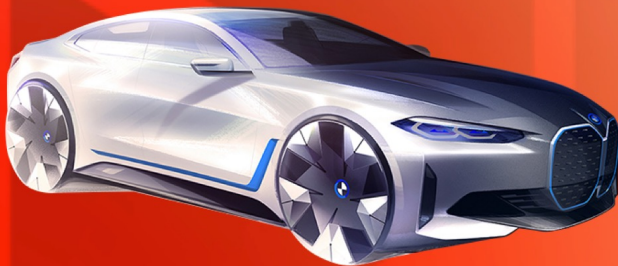
- Perfect quartet between driving dynamics, elegance, comfort and long-distance driving

ELECTRIC DRIVING PLEASURE

- Amazing acceleration, high range and adaptive recuperation system

USER EXPERIENCE & CONNECTIVITY

- Intuitive user interface and iconic sound - driving with all senses



THE BMW i4 - EVERYTHING YOU WOULD EXPECT FROM A BMW GRAN COUPÉ



Expressive design in high execution quality

Highly powerful & efficient drivetrain for BMW i4 M50

- 400 kW
- < 3.9 sec 0-100 km/h
- > 23.3 < 25.6 kWh/100 km (WLTP)
- Up to 510 km range (WLTP)
140 km range per 10 mins max. DC charging

Superior Driving Dynamics
Comfort and E-Punch

Centre of gravity 53 mm lower than BMW 3 Series

Total LCA CO₂ balance 30-60% better than comparable ICE model

Best in segment noise vibration harshness-level

BMW typical range of options for maximum individualisation

BMW Iconic Sounds

Large tailgate for easy access to 470 - 1,290 litres cargo space.
Rear view camera, smart tailgate with foot activation for opening and closing as standard equipment



1,600 kg
trailer load

THE 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



BMW GEN5 HIGHLY INTEGRATED DRIVE UNIT

"THE HEART OF THE DRIVETRAIN"



➤ EESM Technology: Electrically excited Synchronous Motor

➤ Conceptual Advantages:

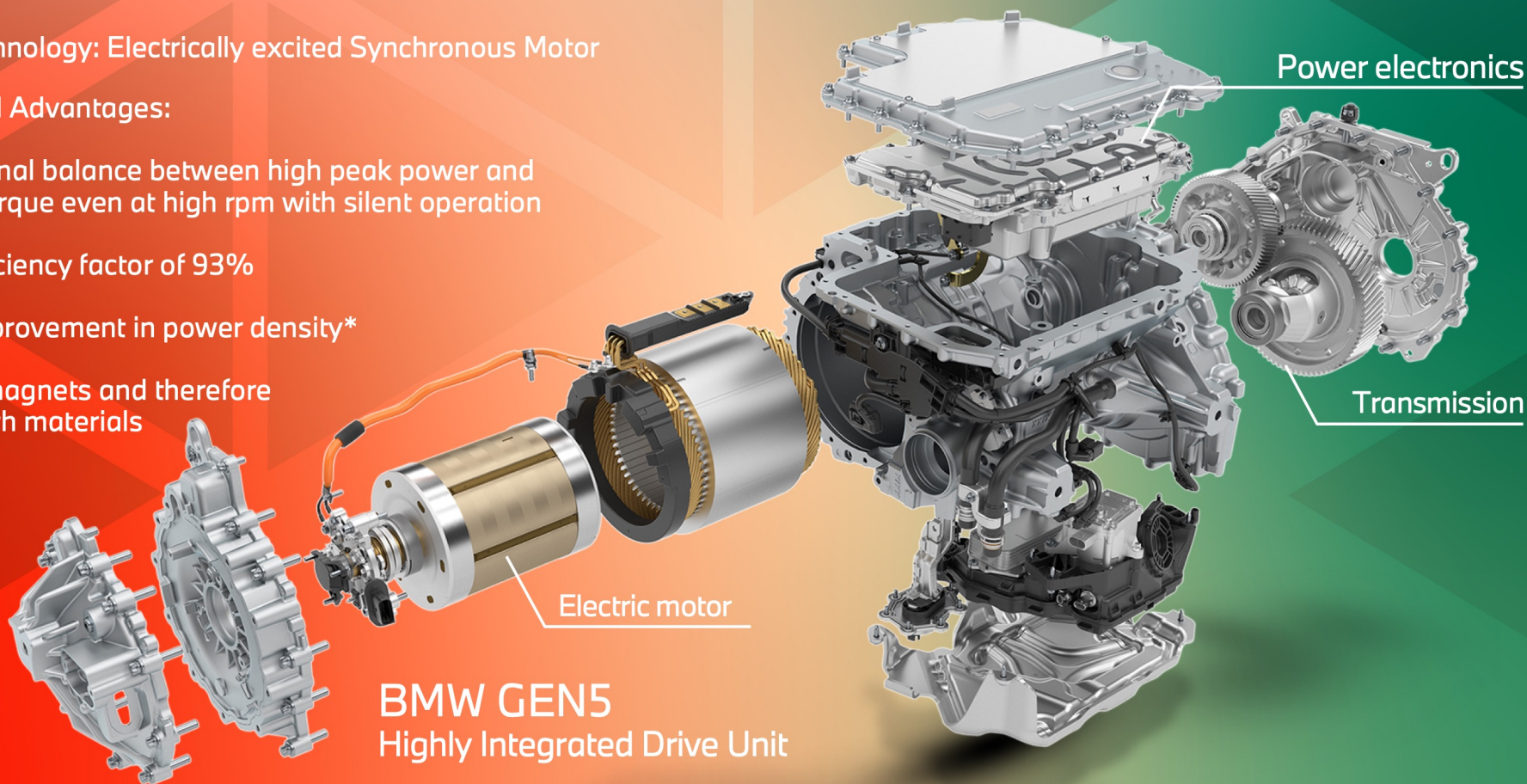
➤ Exceptional balance between high peak power and stable torque even at high rpm with silent operation

➤ 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

THE BMW i4

INNOVATION AERODYNAMIC WHEELS

5 %

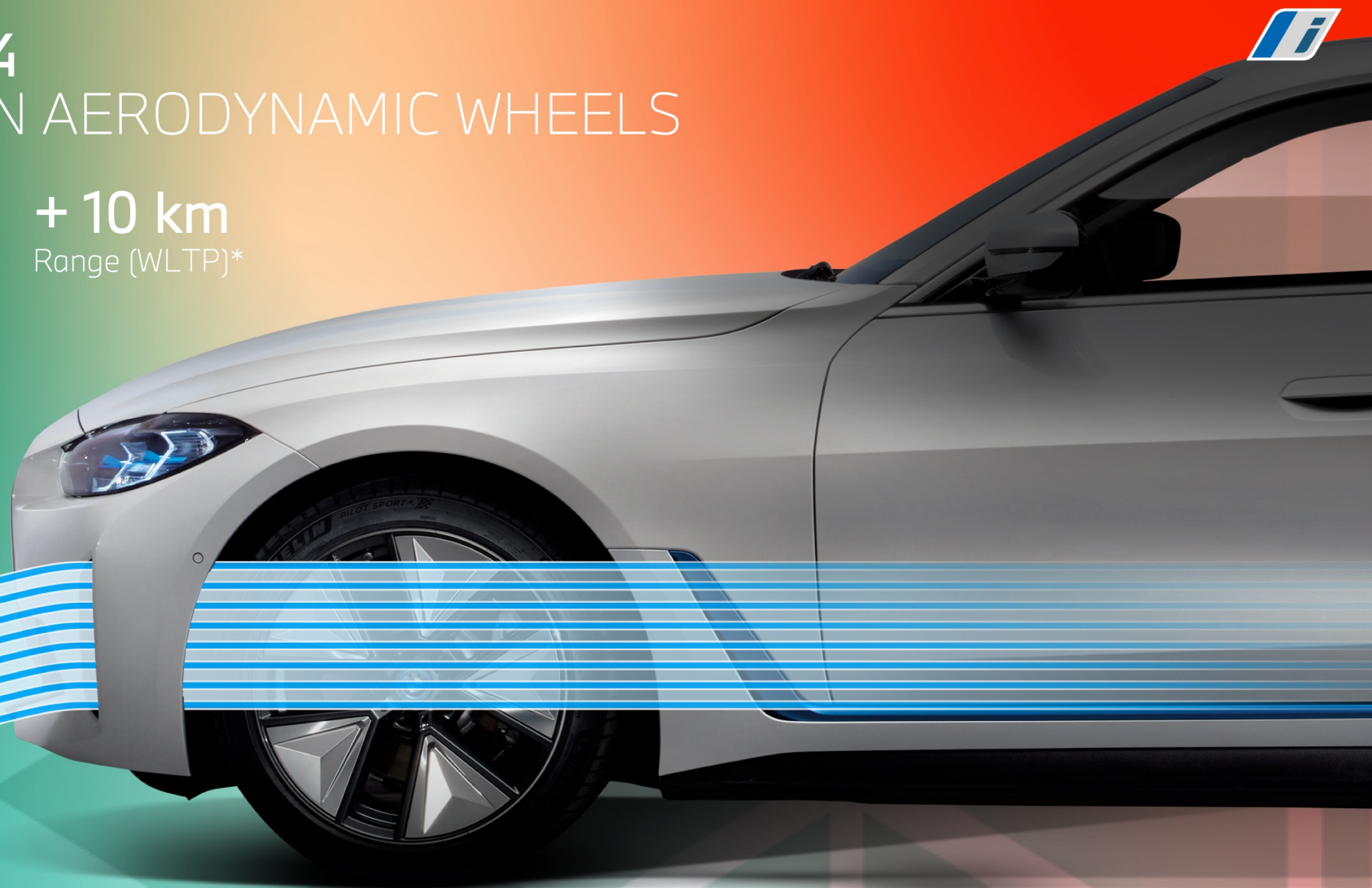
Less air drag
coefficient*

+ 10 km

Range (WLTP)*

15 %

Less weight*



* Compared to BMW models with conventional wheels.

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 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

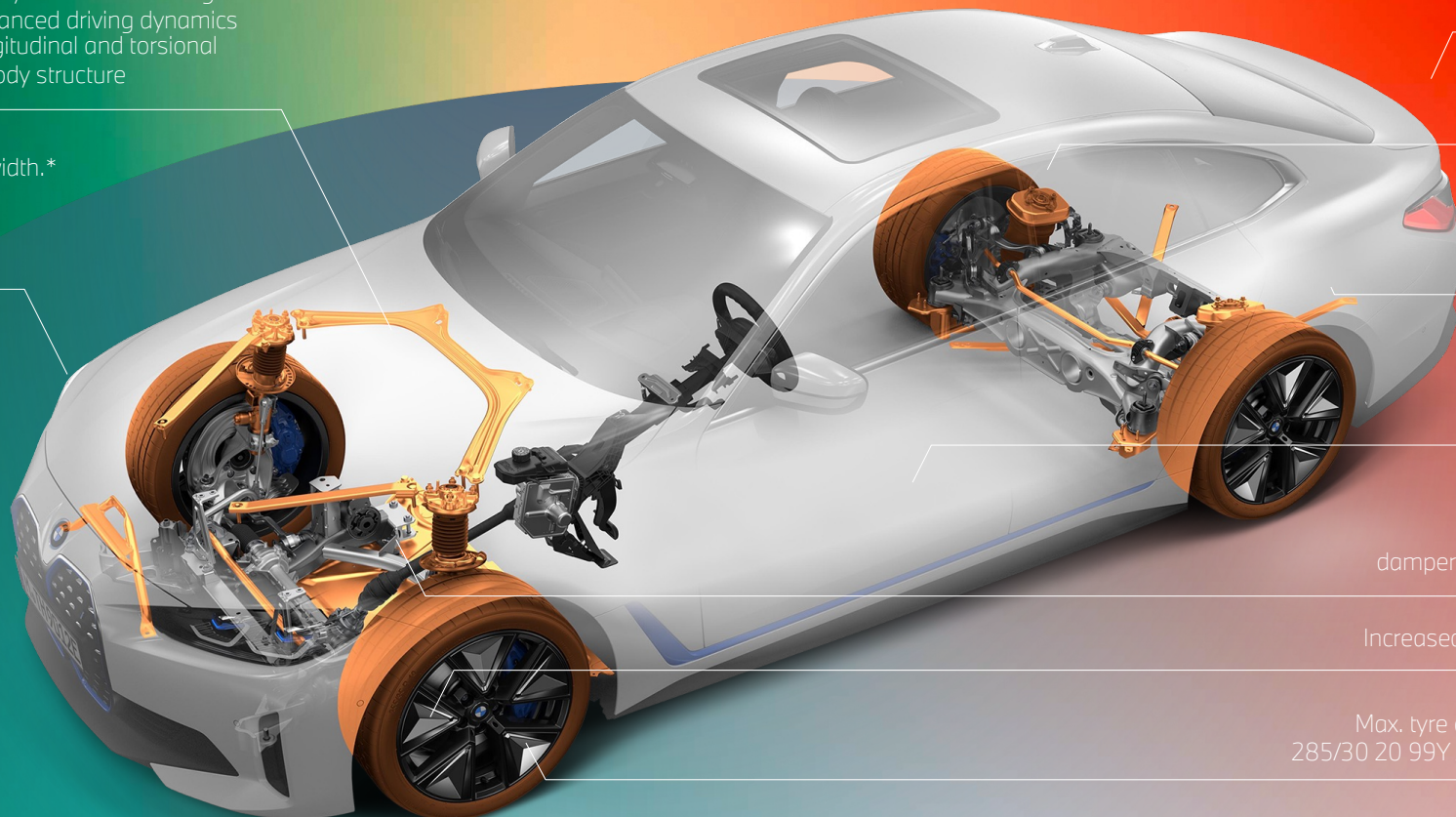
Adaptive M Suspension as standard including VDC dampers and Variable Sports Steering

Increased negative camber at front axle

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

48.2 / 51.8 % axle load distribution

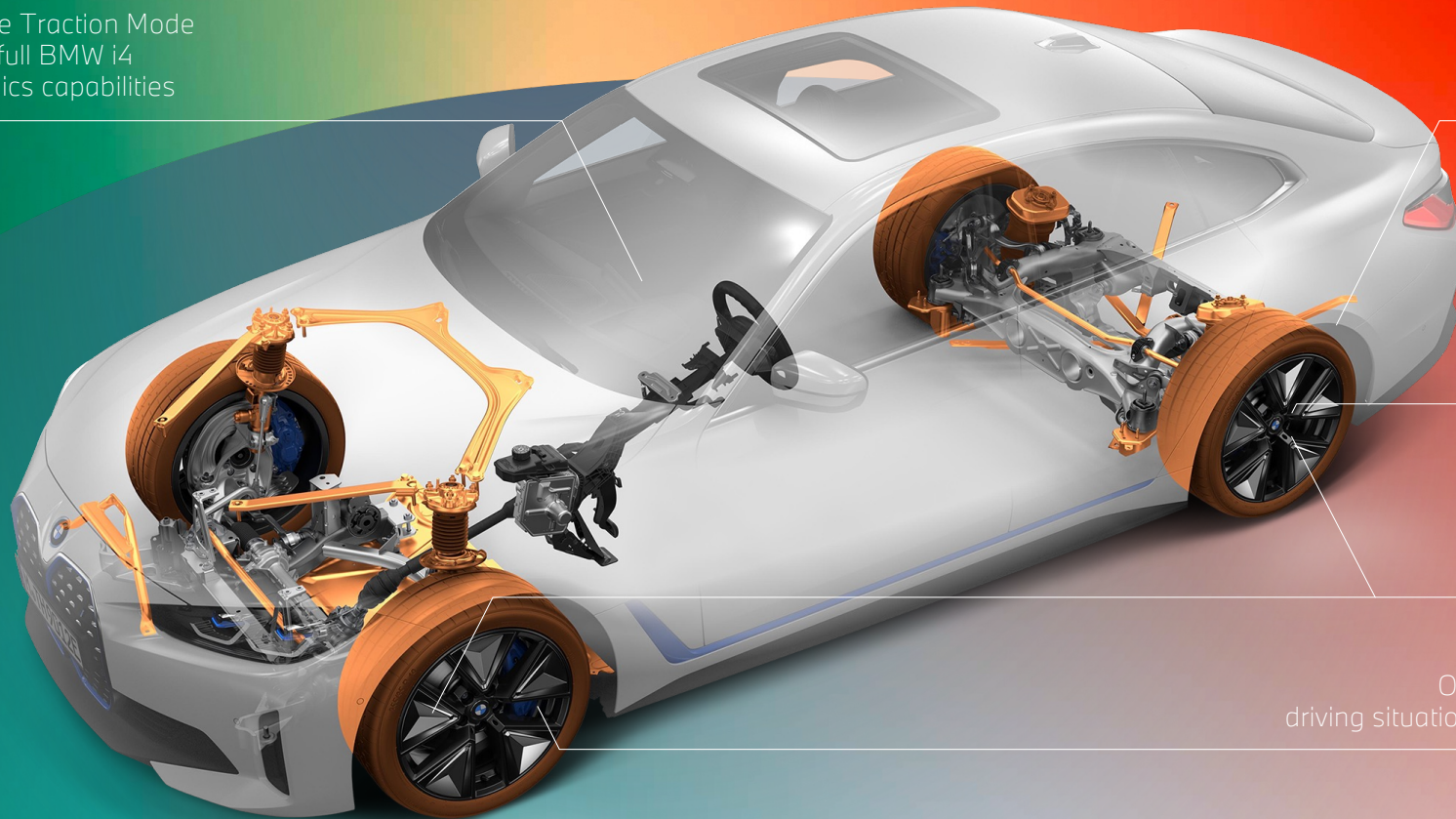
* In comparison to BMW 3 Series.



THE BMW i4 M50 INNOVATION* – JUST ACCELERATING FAST IN A STRAIGHT LINE IS NOT ENOUGH FOR BMW



Easy to activate Traction Mode
demonstrates full BMW i4
Driving Dynamics capabilities



Sporty, rear-oriented
torque distribution

Up to 10x
faster traction
control*

All control loops
for front and rear axle
via one central ECU

Optimal performance for all
driving situations and surface conditions

* In comparison to BMW 3 Series.

THE BMW i4 M50

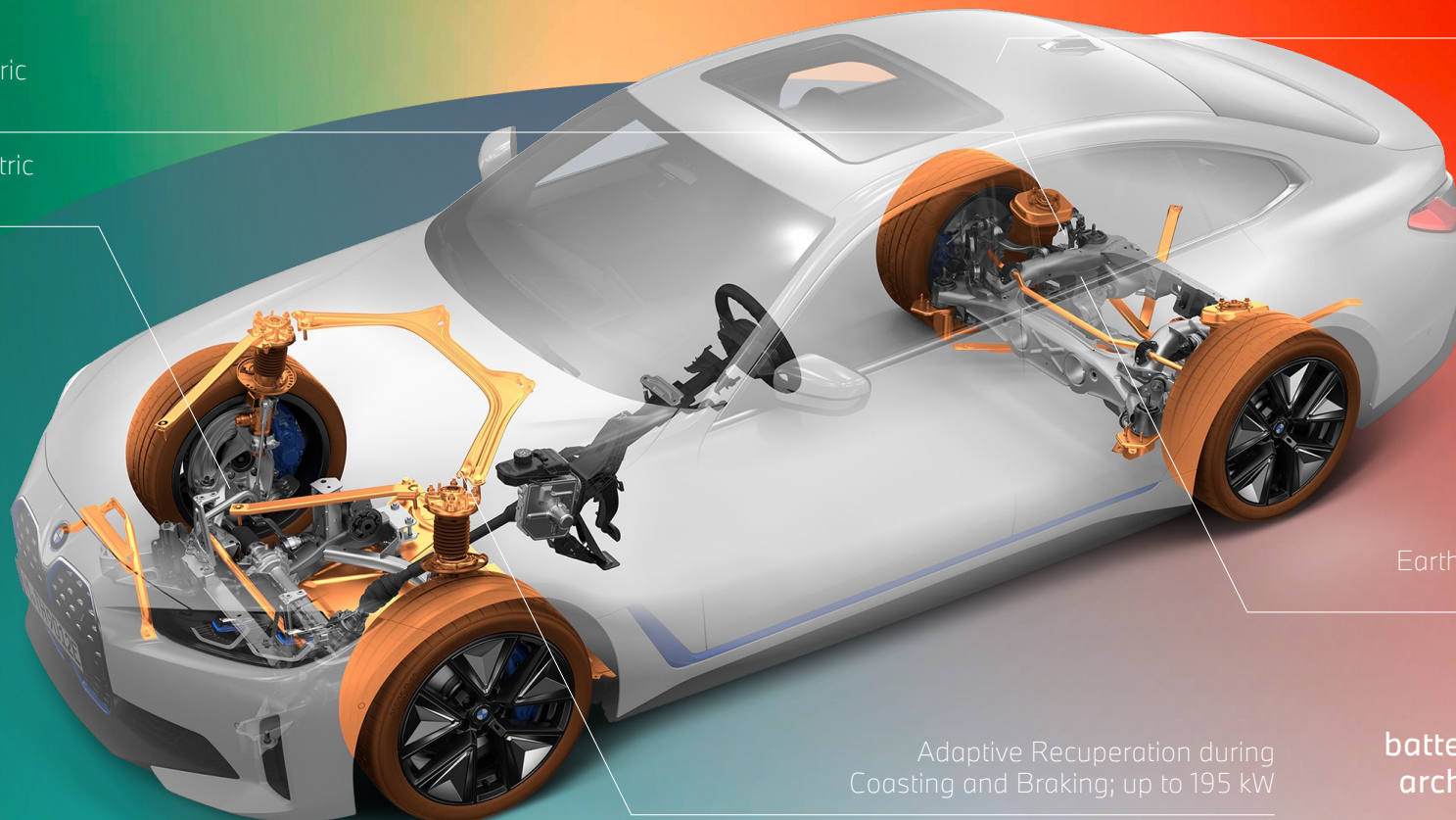
GEN5 E-DRIVETRAIN PERFORMANCE & EFFICIENCY



> 200 kW DC / 11 kW AC charging
(3-phase).

Rear axle electric
motor 230 kW

Front axle electric
motor 190 kW



Highly integrated
drivetrain unit
400 kW electric motor,
transmission and 400 V
electronics, free from Rare
Earth Materials, 2/3 less Cobalt

Adaptive Recuperation during
Coasting and Braking; up to 195 kW

BMW GEN5
battery-electric drive train
architecture components

THE BMW i4

TECHNICAL DATA AND PRICE



BMW i4 M50	
Power	400 kW
Torque	795 Nm
Acceleration [0 - 100 km/h]	3.9 seconds
Range (WLTP)	up to 510 km
Max. DC charging power	> 200 kW
Added range per 10 mins max. DC charging	140 km
Operating system	

Price

BMW OS8

R1,600,000

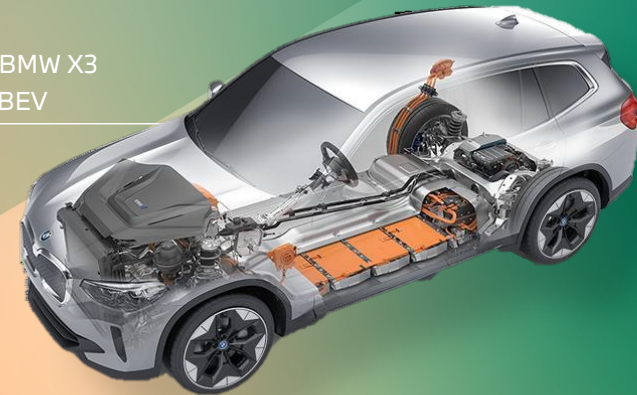


THE BMW CUSTOMER HAS THE POWER OF CHOICE

BMW X3
Diesel



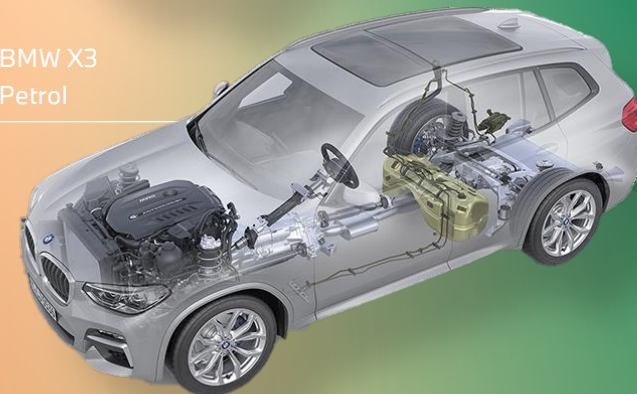
BMW X3
BEV



BMW X3
PHEV



BMW X3
Petrol

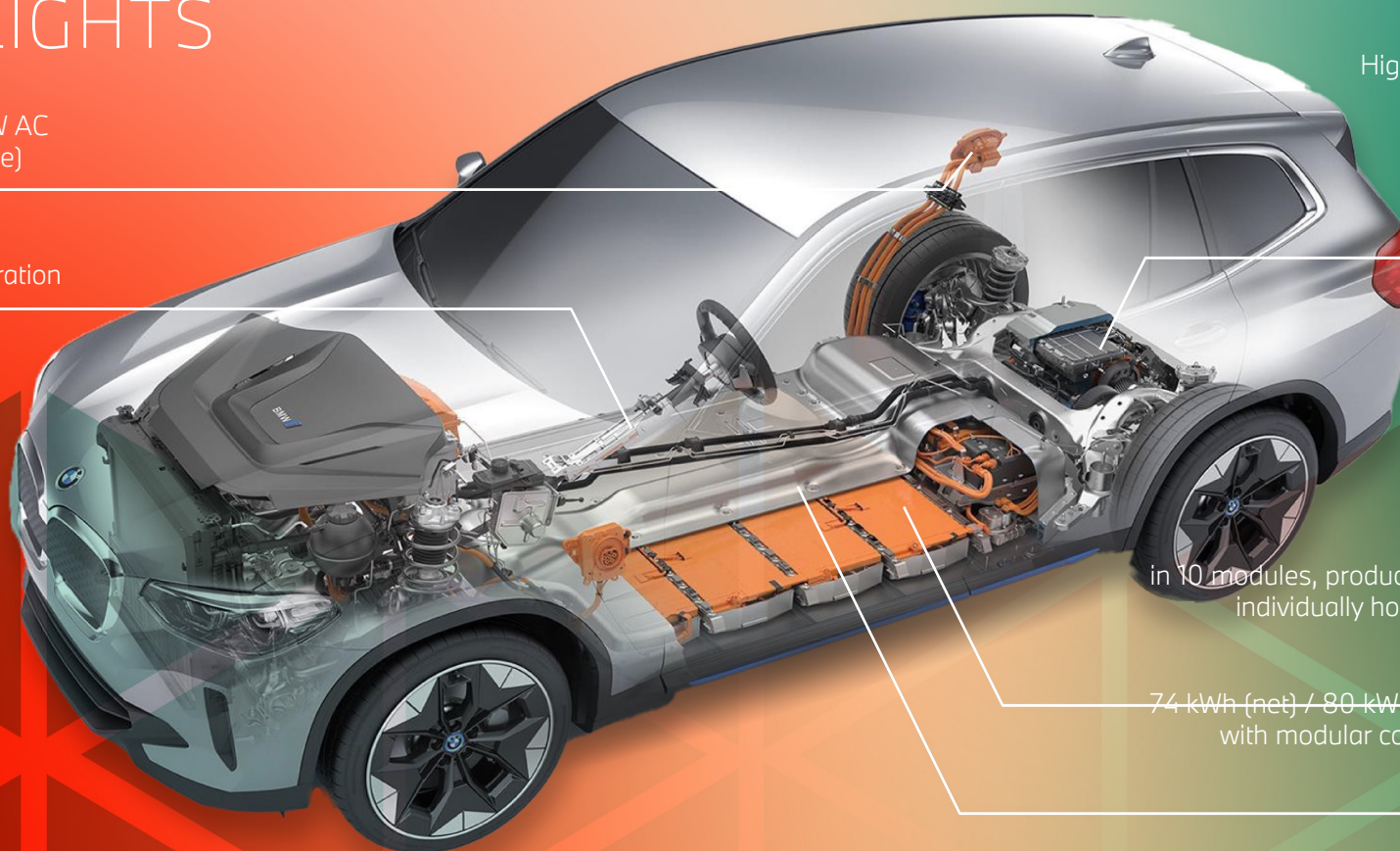


BMW GROUP FAVOURS FLEXIBLE ARCHITECTURES OVER PURPOSE MADE BEV PLATFORMS

THE FIRST-EVER BMW iX3 HIGHLIGHTS

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

Adaptive Recuperation



Highly integrated drivetrain unit
210 kW 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 CO₂-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 2nd life

Max. range WLTP
460 km

Economy WLTP
19.5 - 18.5 kWh/100 km



THE FIRST-EVER BMW iX3

TECHNICAL DATA & PRICE



	BMW iX3
Electric motor	210 kW
Max. torque	400 Nm
Electric range	Up to 460 km according to WLTP
Battery	74 kWh (net)
Consumption (kWh/100 km)	19.5 - 18.5
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 WLTP range
Price	R 1,290,000