

# The BMW Group at the NAIAS 2017 in Detroit. Long version.



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# 1. The new BMW 5 Series Sedan. Lighter, more dynamic, more economical and fully connected.



The seventh generation of the BMW 5 Series Sedan will cut a sporty, elegant and stylish figure when it hits the roads in markets around the world in February 2017. Further enhanced dynamics, an unbeatable line-up of assistance systems, an unmatched degree of connectivity and a new and innovative operating system are the most important new features. The new BMW 5 Series Sedan therefore has all the tools it needs to continue the remarkable success recorded by its predecessors; around 7.9 million BMW 5 Series cars were sold across its first six generations. “The seventh generation of the BMW 5 Series points the way into the future, as we have defined it with our NUMBER ONE > NEXT strategy. We see technological leadership, emotionally rich products and digitalisation as essential factors in achieving success. With the expansion of our model portfolio in the large-vehicle classes, we are satisfying the wishes of many customers. I’m in no doubt that the new BMW 5 Series will set new benchmarks technologically, but also have huge emotional appeal. It remains the epitome of the business sedan,” says Harald Krüger, Chairman of the Board of Management at BMW AG.

## **Superior driving pleasure and unsurpassed aerodynamics.**

Rigorous application of the BMW EfficientLightweight lightweight design concept, with increased use of aluminium and high-strength steels, reduces the weight of the 5 Series Sedan by up to 100 kilograms from that of its predecessor. The newly designed chassis, a low centre of gravity, BMW’s hallmark even weight distribution and a lightweight body offering exceptional torsional stiffness combine a wonderfully dynamic driving experience with the long-distance comfort for which the BMW 5 Series is renowned. Various chassis options such as Integral Active Steering, which can now be teamed with xDrive intelligent all-wheel drive, add further talents to a dynamics-focused overall package designed to ensure the BMW 5 Series once again stands at the top of its class. The drag coefficient of the new, 4,935 millimetre-long BMW 5 Series Sedan ( $C_d = 0.22$  at its most efficient) sets the benchmark in its class.

## **The next step to automated driving.**

A wealth of assistance systems are on hand in the new BMW 5 Series to offer the driver unbeatable support – not only at critical moments but also in less demanding situations at the wheel, such as traffic jams, slow-moving traffic and monotonous stretches of motorway. To this end, it is fitted as standard

with a stereo camera, which teams up with optional radar and ultrasound sensors to monitor the area around the car. New features in the BMW 5 Series alongside the evasion aid and Crossing traffic warning are the Lane Change Assistant and Lane keeping assistant with active side collision protection. The latter keeps an eye on the lane markings and the area around the car, and actively helps the driver to avoid looming collisions by applying corrective steering inputs.

The BMW 5 Series also takes another step towards automated driving with extended functions for the optional Active Cruise Control (ACC) system and Steering and lane control assistant. These include adoption of speed restrictions, which drivers can select as part of the Speed Limit Assist option. Drivers can confirm adoption of a speed restriction and make an adjustment of +/- 15 km/h / 9 mph in the system settings. From rest to 210 km/h (130 mph) the car assists the driver with distance-keeping, accelerating, braking and lane control. This increases comfort significantly – in particular at low speeds and in slow-moving traffic on clogged up motorway sections. The intelligent Auto Start Stop function now adjusts its responses to the route and traffic conditions and therefore offers even greater driving comfort.

### **Intuitive usability and extensive comfort.**

With even greater user-friendliness as its goal, the new BMW 5 Series is equipped with the latest-generation iDrive system. In top specification, it displays navigation, telephone and entertainment features, plus vehicle functions, on a high-resolution 10.25-inch screen. The system can be operated using the iDrive Controller, by voice command or gestures, or by touching the display controls directly, as the driver wishes. The large, tile-style panels can be arranged as desired and show the content of the underlying menus in constantly updated form. The latest-generation full-colour BMW Head-Up Display has a projection surface that is 70 per cent larger than before and displays traffic signs, telephone listings, radio stations, music tracks, navigation instructions and warnings from the assistance systems.

Maximising the levels of on-board comfort are extended storage options, greater legroom for rear-seat passengers and comfort seats with massage function, not to mention innovative seat operation using touch sensors and four-zone climate control complete with ionisation and discreet air fragrancing. Special Synergy Thermoacoustic Capsule (SYNTAK) engine encapsulation technology, the acoustic glazing for the windscreen and the acoustic headliner bring about another noticeable reduction in noise levels inside the car. All headlight variants specified for the BMW 5 Series Sedan come as standard with LED technology. Available as an option are Adaptive LED Headlights with

variable light distribution including adaptive roundabout lights and BMW Selective Beam anti-dazzle high beam with a range of up to 500 metres.

### **Advanced link-up of man, machine and environment.**

The new BMW 5 Series also offers a compelling proposition in terms of connectivity. Extensive BMW ConnectedDrive features are joined by new services which indulge business travellers with extra comfort and save them time. These include the new ParkNow technology for digital parking space reservation and payment, the On-Street Parking Information intelligent parking space search function, and the optional Parking Assistant, which detects empty spots and parks the vehicle automatically. Plus, the Microsoft Exchange service now enables Microsoft Office 365 users to sync emails, calendar entries, and contacts and edit them inside their car. Meanwhile, the optional Remote Parking system allows the BMW 5 Series Sedan to be manoeuvred into even the tightest parking spaces remotely using the car key. And smartphone integration has been further improved – from Apple CarPlay (which, in a first for a carmaker, has been incorporated fully wirelessly) to inductive phone charging, plus a WiFi hotspot for up to ten devices.

### **Personalised content through BMW Connected Onboard.**

BMW Connected, the personal digital mobility assistant from BMW, was made available in 2016. The next development stage of the system, complete with additional services, is set to be introduced with the new BMW 5 Series. BMW Connected Onboard gives drivers an overview of their mobility-related information. Relevant content such as upcoming navigation destinations and estimated arrival times that are recorded in their personal mobility agenda are transferred seamlessly into the car from their smartphone and displayed on the personalised screen. Remote 3D View allows drivers to call up three-dimensional views of the area around their car on their smartphone while on the move. And that means they need never lose sight of their car.

### **BMW 530i and BMW 540i: the new petrol engines.**

All the engines in the 5 Series Sedan line-up belong to the newly developed, modular BMW EfficientDynamics family of power units. BMW TwinPower Turbo technology imbues all the members of the family with outstanding performance combined with exceptional efficiency. Two diesel engines and two petrol variants will be available from launch, working in tandem with either rear-wheel drive or BMW xDrive intelligent all-wheel drive.

The new two-litre four-cylinder in-line engine in the BMW 530i develops peak torque of 350 Nm (258 lb-ft) and maximum output of 185 kW/252 hp. Its fuel consumption in the combined cycle comes in at 5.5 litres/100 km (51.4 mpg)

imp)\*, which means CO<sub>2</sub> emissions of 126 g/km – down more than 11 per cent on its predecessor's figures. The BMW 530i accelerates from 0 - 100 km/h (62 mph) in 6.2 seconds on its way to a top speed of 250 km/h (155 mph).

The flagship engine at launch will be the 250 kW/340 hp unit under the bonnet of the new BMW 540i. This three-litre straight-six produces torque of 450 Nm (332 lb-ft). Despite its extra output and sharper dynamic edge, average fuel consumption stands at only 6.5 l/100 km (43.5 mpg imp)\* and CO<sub>2</sub> emissions are kept to just 149 g/km. In xDrive guise, the BMW 540i powers from 0 – 100 km/h (62 mph) in a mere 4.8 seconds.

### **BMW 520d and BMW 530d: the new diesel engines.**

The four-cylinder diesel engine powering the BMW 520d develops 140 kW/190 hp and peak torque of 400 Nm (295 lb-ft). Fuel consumption and CO<sub>2</sub> emissions are 4.2 l/100 km (67.3 mpg imp)\* and 109 g/km with the manual gearbox specified or 4.1 l/100 km (68.9 mpg imp)\* and 108 g/km with the eight-speed Steptronic transmission. The sedan accelerates from 0 - 100 km/h (62 mph) in 7.5 seconds (Steptronic). Top speed is 238 km/h (148 mph, with Steptronic 235 km/h [146 mph]).

The new BMW 530d likewise does a nice line in dynamics and efficiency. Producing 195 kW/265 hp and peak torque of 620 Nm (457 lb-ft), the six-cylinder in-line unit is clearly superior to the equivalent model in the outgoing range. And yet the BMW 530d also makes do with average fuel consumption of 4.5 l/100 km (62.8 mpg imp)\* and CO<sub>2</sub> emissions of 118 g/km – an approximately 13 per cent improvement on its predecessor. The new BMW 530d races from 0 – 100 km/h (62 mph) in just 5.7 seconds, and on to an electronically governed 250 km/h (155 mph).

### **The CO<sub>2</sub> champion, the plug-in hybrid and the eight-cylinder sports star.**

Not long after the launch of the new 5 Series Sedan, BMW will be adding another three engine variants to the line-up. The 140 kW/190 hp four-cylinder diesel engine will be presented in its most efficient form in the BMW 520d EfficientDynamics Edition with eight-speed Steptronic. Its CO<sub>2</sub> emissions of just 102 g/km are the lowest in the sedan's class (average fuel consumption: 3.9 l/100 km [72.4 mpg imp]\*).

Also to come in March 2017 is a BMW 5 Series Sedan with plug-in hybrid drive system, in the form of the BMW 530e iPerformance. The combination of the BMW eDrive electric drive concept and a four-cylinder petrol engine

produces extremely low CO<sub>2</sub> emissions of just 46 g/km (2.0 l/100 km [141.2 mpg imp])\* . System output is 185 kW/252 hp.

In March 2017 the BMW M550i xDrive will take over as the sporting highlight of the new BMW 5 Series range, for the time being at least. Its V8 engine – developing 340 kW/462 hp and 650 Nm (479 lb-ft) of torque – impresses not only with its remarkable performance but also when it comes to efficiency (fuel consumption, combined: 8.9 l/100 km [31.7 mpg imp], CO<sub>2</sub> emissions 204 g/km\*). The BMW M550i xDrive dispatches the 0 – 100 km/h (62 mph) sprint in 4.0 seconds.

## 2. The BMW 530e iPerformance. The world's most successful business sedan is now also available as a plug- in hybrid.



In March 2017, just a few weeks after the latest generation of the BMW 5 Series is launched, a plug-in hybrid variant will join the ranks of the world's most successful business sedan. The BMW 530e iPerformance is a sporty sedan that serves up the dynamic driving experience for which the brand is renowned combined with the possibility of electric driving with zero local emissions. Its fuel consumption of 1.9 l/100 km (148.7 mpg imp) equates to CO<sub>2</sub> emissions of just 44 g/km\*. The BMW 530e iPerformance is the most innovative model in its class and offers the full wealth of BMW 5 Series driver assistance systems – in all modes, including eDrive. These systems are complemented by all the available comfort-enhancing features and excellent long-distance driving credentials, including a boot that can hold ample luggage for trips away. As for its power source, trailblazing BMW eDrive technology teams up with a BMW TwinPower Turbo petrol engine to create an exceptionally economical and powerful plug-in-hybrid drive system which fits in perfectly with the dynamic, smooth and efficient character profile of the new BMW 5 Series. The iPerformance tag attached to all of BMW's plug-in hybrid models bears testimony to the transfer of know-how from BMW i to the core brand's cars. The BMW 530e iPerformance is the sixth member of a growing portfolio of iPerformance models that have proved a hit with customers.

### **Power delivery on a par with a high-displacement combustion engine.**

The BMW eDrive system's state-of-the-art electric motor has an output of 70 kW/95 hp and places maximum torque of 250 Nm (184 lb-ft) on tap, while the four-cylinder combustion engine with its 2.0-litre displacement generates 135 kW/184 hp and 320 Nm (236 lb-ft) of torque. The combination of motor and engine keeps the CO<sub>2</sub> emissions of the BMW 530e iPerformance very low at just 44 g/km. The overall system output of 185 kW/252 hp and combined peak torque of 420 Nm (310 lb-ft) propel the BMW 530e iPerformance from 0 to 100 km/h (62 mph) in 6.2 seconds and enable it to reach a top speed of 235 km/h (146 mph). The BMW 530e iPerformance has a range of up to 650 kilometres (404 miles) in real-world driving and is capable of covering distances of up to 50 kilometres (31 miles) purely on electric power at a maximum speed of 140 km/h (87 mph). The electric motor and combustion engine direct their power to the sedan's rear wheels via the standard eight-speed Steptronic transmission.

\* Fuel consumption figures are provisional, based on the EU test cycle and may vary depending on the tyre format specified.

Positioning the electric motor upstream from the transmission allows the transmission's ratios to be used in all-electric mode too. This dispenses with the need for a torque converter, something which goes a long way towards offsetting the weight penalty of the additional drive unit.

The high-voltage battery pack consisting of lithium-ion cells with a total capacity of 9.2 kWh has been placed in a space-saving location underneath the rear seat and includes efficient refrigerant cooling with a highly integrated low-temperature circuit. Thanks to the battery's neat installation, the BMW 530e iPerformance offers 410 litres of boot capacity and a flat load compartment floor. The high-voltage battery of the BMW 530e iPerformance can be fully charged in less than five hours from a standard domestic power socket and in under three hours if it is hooked up to a BMW i Wallbox (3.7 kW charging capacity).

### **Discreet visual differentiation inside and out.**

A series of understated visual highlights provide telltale signs of the cutting-edge drive technology under the bonnet of the new BMW 530e iPerformance. Blue kidney grille slats, blue wheel hub covers, the charging socket located between the front wheel arch and the A-pillar on the driver's side, the "eDrive" emblems on the C-pillars and, of course, the "530e" badge on the boot lid are the most noticeable identifying features of the plug-in hybrid variant. When the passengers open the doors, they are welcomed by illuminated sill panels bearing "eDrive" lettering and an interior which mirrors the sporty elegance of the exterior design, just as it does on all variants of the business sedan. The BMW 530e iPerformance additionally comes with an eDrive button on the centre console, along with specially designed displays for both the instrument cluster in front of the driver and the central information screen.

### **BMW eDrive adapts and anticipates.**

As well as the Driving Experience Control switch, with its SPORT, COMFORT and ECO PRO settings, drivers will also find an eDrive button at their disposal, which lets them tailor the BMW eDrive system's operation even more precisely to the journey ahead through three driving modes: AUTO eDRIVE, MAX eDRIVE and BATTERY CONTROL.

AUTO eDRIVE ensures that the engine and electric motor interact to optimum effect in all driving situations and allows an all-electric top speed of 90 km/h (56 mph). This mode is automatically activated as the default setting every time the vehicle is started. When MAX eDRIVE mode is selected, the BMW 530e iPerformance drives on electric power alone. To do so, it uses the

electric drive's full power and can attain a maximum speed of 140 km/h (87 mph). However, if the accelerator is pressed through to kickdown the engine will cut in, which is handy should an extra boost of power be desired – when overtaking, for example.

BATTERY CONTROL mode lets the driver set the charge level for the high-voltage battery manually. The target value can be adjusted to between 30 and 100 per cent of maximum charge, allowing that proportion of the battery's capacity to be reserved for all-electric driving at a later point in the journey. The intelligent battery management in the BMW 530e iPerformance either keeps the high-voltage battery's charge constant at the selected level or increases it to the pre-set value, the electric motor acting as a generator. In this way, BATTERY CONTROL mode makes it possible to conserve or even increase the reserves of electric power while travelling on the motorway, for example, in order to ensure an upcoming section through an urban area can be covered with zero local emissions.

#### **Latest-generation iDrive for even more intuitive operation.**

As in all the other models in the new BMW 5 Series line-up, the navigation, telephone, entertainment and vehicle functions grouped within the optional high-resolution 10.25-inch display can be controlled not only using the iDrive Controller, but also by simply touching the buttons on the display or with the help of the Intelligent Voice Assistant. BMW gesture control, which reacts to simple movements of the hand or fingers, offers users another option when it comes to operating these functions.

#### **All driver assistance systems and equipment features are available.**

The new BMW 530e iPerformance does not impose any restrictions when it comes to the choice of equipment options, meaning that it is able to support the driver with an extensive range of assistance systems, if desired – and these can also be used in eDrive mode. The systems comprise the evasion aid, crossing traffic warning, the Lane Change Assistant and active Lane Change Warning, which intervenes in the vehicle's steering to avert an impending collision. The optional Active Cruise Control (ACC) and the Lane Keeping Assistant now come with new functions. These include importing the speed limits relayed by Speed Limit Assist to the Active Cruise Control system, with the driver also having the option of setting a margin of variation of +/- 15 km/h (+/- 9 mph). This feature brings the BMW 530e iPerformance a step closer to automated driving, as does the Steering and lane control assistant; with this system, the vehicle helps the driver to maintain a safe distance, accelerate, brake and stay in lane when travelling at speeds between 0 and 210 km/h (0 – 130 mph).

### **BMW Connected Onboard: the personalised start screen.**

With the launch of BMW Connected in the USA and Europe in 2016, BMW has introduced an all-encompassing digital concept designed to aid personal mobility. Using a flexible platform called the Open Mobility Cloud as a basis, BMW Connected seamlessly integrates the vehicle into the user's digital life via multiple touchpoints, such as an iPhone, Apple Watch, or Android smartphone or smartwatch. Further new functions have been introduced in the new BMW 5 Series Sedan, including BMW Connected Onboard for example, which allows personalised information such as the next navigation destination, estimated arrival time, and current weather conditions at the destination to be shown on the car's display. BMW Connected is additionally able to transfer the user's personal mobility agenda from their smartphone straight to their car.

Surround View and Remote 3D View offer peace of mind to anyone who frequently finds themselves manoeuvring in awkward traffic situations in city centres by allowing them to keep an eye on the area surrounding their BMW 5 Series at all times. The system shows a bird's-eye view of the driver's car as well as a three-dimensional image of the traffic situation. With the Remote 3D View technology integrated into BMW Connected, these three-dimensional views of the vehicle's surrounding area can now be accessed from smartphones too, allowing owners to quickly check on their parked car no matter how far away it is. The image data is transmitted over the mobile phone network to the mobile device.

### **Parking with ease: ParkNow and On-Street Parking Information.**

Drivers of the new BMW 530e iPerformance will be able to access products such as ParkNow for digitised reservation and payment of parking spaces, as well as the On-Street Parking Information technology making its debut in the new BMW 5 Series. This system uses a local prediction model to compute probable parking options in a particular part of town and shows them to the driver on the display.

### **Email access with Microsoft Exchange.**

BMW is now the first carmaker to offer Microsoft Office 365 users a secure server connection for exchanging and editing emails, calendar entries, and contact details thanks to the car's built-in Microsoft Exchange function. This seamless integration enables users to stay productive while on the road. Addresses from appointments can be imported straight into the navigation system and telephone numbers can be dialled directly from a linked phone.

**Sixth model to carry the iPerformance tag.**

In the same way that M Performance is a nod to the link between the BMW core brand and BMW M, BMW highlights the transfer of know-how from BMW i to the core brand's cars by adding the iPerformance tag to the designations of all plug-in hybrid BMWs. The list of groundbreaking models in whose tyre tracks the BMW 530e iPerformance will follow includes the BMW 225xe iPerformance, BMW 330e iPerformance, BMW X5 40e iPerformance and BMW 740e/740Le iPerformance, plus the BMW X1 xDrive 25Le iPerformance sold exclusively in China. BMW therefore offers an extremely wide selection of iPerformance models, ranging from compact to luxury-class. The new BMW 530e iPerformance brings a sixth model to the portfolio, with further additions set to follow.

### 3. The new BMW M550i xDrive. New BMW M Performance Automobile sets the pace in its segment.



To coincide with the premiere of the new BMW 5 Series range, BMW M GmbH is bringing out a sporty BMW M Performance version of the world's most successful business sedan. For the time being at least, the new BMW M550i xDrive will assume the status of range-topper in the new BMW 5 Series line-up. Boasting a mighty M Performance TwinPower Turbo engine, BMW xDrive intelligent all-wheel drive with rear-wheel bias and a bespoke M Performance chassis set-up, the new BMW M550i xDrive can be classed as both a four-door sports car and the most dynamic business sedan around. With its abundant torque reserves and high-revving characteristics, the V8 power unit serves up a matchless blend of supreme performance, wonderfully precise driving dynamics and uncompromised everyday usability. This all helps the new BMW M550i xDrive to set the pace in its segment and turn each and every drive into an exhilarating experience.

#### **State-of-the-art high-performance engine melds power with efficiency.**

The new BMW M550i xDrive is the first BMW 5 Series M Performance model to be powered by a petrol engine, namely a specifically modified M Performance TwinPower Turbo eight-cylinder unit with a displacement of 4.4 litres. The V8 is equipped with two twin-scroll turbochargers and features the High Precision Injection direct injection system, Valvetronic fully variable valve timing and Double-VANOS variable camshaft control. This all adds up to an output of 340 kW/462 hp\* at 5,500 rpm\* (fuel consumption combined: 8.9 l/100 km [31.7 mpg imp]; CO<sub>2</sub> emissions combined: 204 g/km)\*\* and peak torque of 650 Nm (479 lb-ft)\* that can be summoned from just 1,800 rpm\*.

The state-of-the-art, high-performance engine comes with all the dynamic credentials expected of a BMW M Performance Automobile, propelling the BMW M550i xDrive from 0 to 100 km/h (62 mph) in 4.0 seconds, then on to an electronically limited top speed of 250 km/h (155 mph). At the same time, the new V8 engine also demonstrates the exceptional efficiency of the

M Performance TwinPower Turbo technology. The new BMW M550i xDrive already complies with the exacting EU6c emissions standard.

\* Provisional performance data.

\*\* Fuel consumption figures are provisional, based on the EU test cycle and may vary depending on the tyre format specified.

## **Steptronic Sport transmission and BMW xDrive intelligent all-wheel drive.**

Drive transfer in the most powerful BMW 5 Series Sedan is, at present, handled by the standard-fit Steptronic Sport eight-speed transmission, which plays a significant role in the superb dynamics of the BMW M550i xDrive. The M Performance configuration of the shift modes has been tailored to the characteristics of the V8 engine, with distinctly sporty gear changes and more instantaneous downshifts across the entire rev range, and serves to enrich the thrilling driving experience. For an even sharper sporting edge, the eight-speed Steptronic Sport transmission can also be operated using the shift paddles on the steering wheel. The transmission itself helps to cut fuel consumption and emissions thanks to its compact design, low weight and optimised efficiency.

The BMW xDrive all-wheel-drive system in the BMW M550i xDrive splits drive power between all four wheels as the situation demands – intelligently and with a rear-wheel bias. BMW xDrive is thereby key to delivering two intrinsic elements of the trademark M Performance driving experience under all conditions: superlative driving performance and extremely precise handling. And when the adaptive M Sport suspension (lowered by 10 millimetres) is added to the equation, along with either the standard 19-inch M light-alloy wheels in Cerium Grey metallic matt or the optional\*\*\* 20-inch M light-alloy wheels (in an exclusive design, also painted in the Cerium Grey metallic matt finish and fitted with sports tyres), the result is tremendous handling stability and optimum traction, come what may.

In addition, the power steering with M-specific responses in the SPORT and SPORT+ settings serves to highlight the crisp handling and precise driving properties of the sportiest representative yet of the new-generation BMW 5 Series. Steering commands are executed with pinpoint accuracy and the driver receives the sort of feedback that guarantees immense driving pleasure when powering along twisty sections of road. The performance-enhancing specification of the BMW M550i xDrive is completed to perfection by the M Sport brakes with brake callipers in Blue metallic and M badging, which combine outstanding stopping power with excellent feel.

## **Sporty looks with exclusive M Performance equipment features.**

The exterior of the new BMW M550i xDrive boldly expresses the sedan's dynamic performance capabilities, while also underlining its status as the flagship model in the new BMW 5 Series range. The M aerodynamic package, including an M rear spoiler with Gurney flap on the boot lid, accentuates the sporty, dynamic lines of the new BMW 5 Series, at the same time as

\*\*\* Scheduled to be available from 07/2017.

optimising the airflow around and over the car. The exterior mirror caps, the kidney grille surround, the special M Performance bars on the front air intake and the two Air Breathers at the sides all sport the exclusive Cerium Grey metallic finish, while the high-gloss Shadow Line trim around the windows gives added impact to the dynamic business sedan's undeniably sporty appearance. An M sports exhaust system – with exclusive tailpipe embellishers in Black chrome on the left and right – is responsible for producing the unmistakable and rousing BMW M soundtrack.

Illuminated door sills bearing the inscription "M550i xDrive" beckon passengers into the interior, where M sports seats upholstered in Black Dakota leather with blue contrast stitching, the latest version of the M sports steering wheel, M design floor mats and special interior trim strips and pedals made from aluminium combine to create the aura of sporting exclusivity that is a hallmark of all BMW M Performance Automobiles.

#### **Driver assistance systems take the hard work out of routine tasks.**

Just like the other models in the latest-generation BMW 5 Series line-up, the BMW M550i xDrive also offers an even wider choice of assistance systems to help the driver, if desired. These include an evasion aid, crossing traffic warning system and active Lane Change Warning, which uses steering inputs to avert an impending collision. The optionally available Active Cruise Control (ACC) and Lane Keeping Assistant now feature extended functionality. And Intelligent Speed Limit Assist, which allows speed limits to be automatically imported into the cruise control system, likewise represents another step along the road to automated driving for the BMW M550i xDrive.

#### **Forging an even closer link between man, machine and the outside world.**

The latest generation of the BMW 5 Series enables close-knit connectivity between the driver, vehicle, and outside world thanks to BMW Connected. This new system links up devices such as smartphones, smartwatches, computers, and tablets, as well as the vehicle's navigation system, via the BMW servers. This, then, is highly intelligent technology. Indeed, it is capable of identifying movement patterns as well as personal preferences, turning it into a de facto personal mobility companion that helps users easily overcome the increasingly complex challenges of day-to-day mobility. Before the journey has even started, BMW Connected automatically factors in Real Time Traffic Information (RTTI) for route-planning purposes, and recommends departing earlier if a detour has to be made due to traffic hold-ups. And although BMW Connected uses the vehicle's location as the basis for calculating the route in the usual way, it takes the BMW driver's whereabouts into account,

too. The new system also merges the remote control functions and services of the familiar My BMW Remote app into the BMW Connected app. Plus, users are able to access products such as ParkNow for digitised reservation and payment of parking spaces, not to mention the intelligent On-Street Parking Information feature, which identifies the areas of a town where drivers are most likely to find a free parking spot. And if the optional Remote Parking system is specified, the BMW 5 Series Sedan can be manoeuvred into even the tightest spaces from outside the vehicle with the help of the car key. Last but not least, once the car has been parked, BMW Connected helps guide users to their final destination on foot.

### **Sportiness and everyday usability in perfect harmony.**

The BMW M Performance Automobiles are exclusive products from BMW M GmbH and slot in between the top-of-the-range standard BMW models and the core M models built for maximum performance. “We develop the BMW M Performance Automobiles for customers who are seeking very sporty driving characteristics yet do not wish to sacrifice any of their BMW’s everyday practicality,” explains Frank van Meel, CEO of BMW M GmbH. “The experience and expertise garnered by BMW M in the world of motor sport and the development of high-performance sports cars are also channelled into the development of our BMW M Performance Automobiles. The sales success clearly demonstrates that we are on the right track. When you take a look at the BMW AG model portfolio, you will notice that not every model series includes a BMW M Performance Automobile. We will expand our product range wisely and close any gaps in the line-up strategically.”

The model portfolio currently comprises the 3-door BMW M140i, 3-door BMW M140i xDrive, 5-door BMW M140i, 5-door BMW M140i xDrive, BMW M240i Coupe, BMW M240i xDrive Coupe, BMW M240i Convertible, BMW M240i xDrive Convertible, BMW X4 M40i, BMW X5 M50d, BMW X6 M50d and BMW M760 Li xDrive.

The new BMW M550i xDrive is scheduled to join the existing model line-up in March 2017.



## 4. The BMW 6 Series model range: Luxurious elegance at its finest. New equipment options emphasise the dynamic character of the luxury- class models.

The BMW 6 Series model range is welcoming a number of attractive new items to its optional equipment roster for spring 2017. The options available exclusively for the BMW 6 Series Coupe, BMW 6 Series Convertible and BMW 6 Series Gran Coupe bring striking exterior and interior flourishes which vividly showcase the sporting character of the three luxury-class models.

Customers can now plump for the body paint variant Sonic Speed Blue metallic, which is new to the selection of finishes. If the M Sport package – which is individually configured to each of the three model variants – is specified, the BMW 6 Series Coupe, BMW 6 Series Convertible and BMW 6 Series Gran Coupe can now also be ordered with new bi-colour 20-inch M light-alloy wheels which feature an M-specific double-spoke design and are fitted with mixed-size runflat tyres. Furthermore, the Carbon Fibre interior trim strips likewise available as an option with the M Sport package create a spine-tingling sports-car ambience inside the cockpit. These options were previously set aside for the three variants of the BMW M6 high-performance sports model.

### **The number 6: 40 years of sporting flair, luxury, elegance and innovation.**

For 40 years now, the number 6 at the start of a BMW model designation has been shorthand for the combination of dynamic excellence and luxury. The first-generation BMW 6 Series Coupe made its debut in 1976, turning heads not only with its elegant lines and sporty driving properties, but also its trailblazing innovations; indeed, the two-door car was the first series-produced model to feature a Check Control system. The direct successor to the original 6 Series hit the roads in 2003, while the premiere of the BMW 6 Series Convertible a year later added, for the first time, open-air thrills to the promise of driving pleasure in a luxurious sports car. The latest model generation offers customers three distinct takes on the luxury theme, specialising in dynamic flair, elegance and exclusivity respectively.

The BMW 6 Series Coupe (fuel consumption combined: 9.3 – 5.4 l/100 km [30.4 – 52.3 mpg imp]; CO<sub>2</sub> emissions combined: 217 – 143 g/km), BMW 6 Series Convertible (fuel consumption combined: 9.5 – 5.6 l/100 km [29.7 – 50.4 mpg imp]; CO<sub>2</sub> emissions combined: 221 – 149 g/km) and BMW 6 Series Gran Coupe (fuel consumption combined: 9.4 – 5.5 l/100 km

[30.1 – 51.4 mpg imp]; CO<sub>2</sub> emissions combined: 219 – 147 g/km) can all be ordered with a six-cylinder in-line petrol engine developing 235 kW/320 hp, a V8 petrol unit producing 330 kW/450 hp or a straight-six diesel with 230 kW/313 hp. All three engines team up as standard with an eight-speed Steptronic Sport transmission. The petrol-powered variants come with a sports exhaust system, which adds a suitably expressive engine soundtrack to the indefatigable power delivery. And as an alternative to sending their engine power to the rear wheels in time-honoured BMW fashion, all BMW 6 Series models can also be specified with the intelligent all-wheel-drive system BMW xDrive.

The luxurious aura of the BMW 6 Series is accentuated by interior design of grand style and a comprehensive spread of standard equipment. The driver and front passenger settle into heated lightweight integral seats with an integrated belt system and electric adjustment (including memory function). Dakota leather trim, an electrically adjustable multifunction steering wheel, the ConnectedDrive navigation package including WiFi hotspot and telephony with wireless charging, a hi-fi loudspeaker system, LED headlights and an alarm system are fitted as standard on all models in the BMW 6 Series range.

Customers seeking to bring an extra dose of focused individualisation to their car can take advantage of the Design Pure Experience and Design Pure Excellence equipment lines. Here, carefully coordinated design features for the exterior and interior shine an even brighter spotlight on the car's sporting prowess or exclusive luxury, as desired. The BMW Individual options available for the BMW 6 Series models tailor the design of the car even more precisely to the owner's personal style and stand apart with their exclusive design, exquisite materials and sublime workmanship. Plus, the M Sport package configurations particular to each of the three model variants provide them with a bespoke dynamic profile – and optimisations to their exterior appearance, cockpit design and driving characteristics to match.

## 5. The BMW Concept X2. A new dimension to joy.



The BMW Group is using the NAIAS 2017 in Detroit to stage a USA premiere for a new addition to the compact segment: the BMW Concept X2. The new vehicle has a design which stands apart from that of the other X models and also draws on the BMW Group's history of coupe-making. The result is a sporting, urban and compact concept.

"The BMW Concept X2 is a vehicle for active people looking for a combination of enjoyment and practicality," explains Adrian van Hooydonk, Senior Vice President BMW Group Design. "The concept displays a new and exciting facet of the BMW brand within the compact segment."

### **The design – a successful blend of dynamic appeal and solidity.**

The design of the BMW Concept X2 fuses apparent contradictions into a single coherent statement. "The BMW Concept X2 combines the fast-moving body language and low-slung proportions of a coupe with the robust construction of an X model. This is a sporty vehicle with a bold character, and it allows us to open up some fascinating new design possibilities for the BMW brand," says Karim Habib, Head of BMW Design.

The distinctive character of the BMW Concept X2 already shines through in the car's proportions. While its large wheels and familiar two-box design underline its functional X model character, a long wheelbase, stretched roofline, short overhangs and heavily forward-slanting C-pillar give the body a sporty, low-to-the-road feel. The interplay of the darker cladding surfaces and striking Luminous Red body colour make the Concept X2 look even slimmer from the side.

### **Two facets to a singular character – the side view.**

The upper section of the car's flanks is dominated by sporty design elements. The elongated roofline and slim window graphic create a stretched feel. The glasshouse tapers towards the rear, forming an athletic shoulder section. The window graphic surrounds and integrated two-piece mirror bases (both made from brushed aluminium) add an extra touch of class. The thickness of the aluminium profile plays a contrasting role here. The window graphic is rounded off by a dynamic interpretation of the hallmark BMW Hofmeister kink. Like the logo on the C-pillar – a classically sporty coupe design cue straight out of the BMW history books – this represents a singularly unmistakable

detail. The large, air-channelling roof spoiler in body colour lies flat over the blackened rear window. Extending from the C-pillars, it gives the rear of the BMW Concept X2 its sporty contours.

Lower down the sides of the car, customary X-model features hog the limelight. Muscular surfaces, large wheel arches and stylistic underfloor protection around the door sills form an intriguing contrast with the dynamic elements further up. Focusing for a moment on more detailed features, the surfaces of the car's flanks bring together large, smoothly modelled sections with precise edges, showcasing the car's athletic presence. The dramatic surfacing also emphasises the almost squared-off wheel arches familiar from the car's BMW X stablemates. In them sit large, 21-inch light-alloy wheels, whose striking, double-spoke, bi-colour design with a strong sense of three-dimensionality continues the contrast between dynamic appeal and solidity into the car's details. Tyres with chunky treads point to the potential for fun off the beaten track, while door sills in body colour with integral hexagonal elements set the seal on the robust appearance of the car's sides at their lowest point.

### **Dynamism and presence – the front end.**

The front-end design of the BMW Concept X2 likewise fuses dynamic elements with a robust use of forms. Clearly contoured volumes and subtle edges create a front-end impression with presence and sporting appeal in abundance. The heavily raked windscreen appears to extend seamlessly into the dark panoramic roof and teams up with the newly interpreted double kidney grille and large air intakes to give the front end a slow-slung look. The kidneys are sited a little lower than the headlights, and the central air intake is closer to the road than the two outer intakes. This makes the centre of the car appear lower, underlining the dynamic verve of the front-end design.

The kidneys turn the familiar trapezoidal shape of BMW grilles on its head and instead widen from top to bottom. This clear statement therefore accentuates the standalone nature of the BMW Concept X2, as well as the width of the front and the car's solid stance. Graphically modelled and heavily angled bars within the kidney grille create an undeniable "shark nose" effect, bringing additional depth and sculptural richness to this area of the car.

The flat contours of the headlight tubes help to give the classical BMW twin circular look a more hexagonal form. The laser light technology used by the headlights enables very slim light graphics, while the blue X in the centre of the hexagonal tubes adds a further technical accent.

The front apron is dominated by the large central air intake below the kidney grille, which helps to quench the Concept X2's thirst for cooling air. The smaller, triangular air intakes on either side highlight the car's broad stance. The robust, horizontal slats of the air intakes provide a solid counterpoint to the dynamic design of the front apron and add further detailed emphasis of the front-end's traditional X-model character.

### **A powerful statement – the rear end.**

The rear of the BMW Concept X2 rounds off the exterior design in distinctive style. Width-accentuating elements such as the slim rear window and horizontal lines reduce the perceived height of the BMW Concept X2 and underscore its sporting pretensions. From this angle you can also see how the rear window emerges elegantly from below the air-channelling spoiler and underlines the car's sporting character. The prominent tapering of the glasshouse along the sides of the Concept X2 also catches the eye. It forms a powerful shoulder area, allowing it to highlight the car's broad, muscular stance. Below the glasshouse, the sharply drawn rear lights radiate dynamic intent. The fresh interpretation of the lights' familiar "L" shape frames the LED element as an illuminating three-dimensional sculpture that projects from the rear to eye-catching effect.

Located between the rear lights is the BMW logo. Below, the almost uninterrupted transition from tailgate to rear apron creates a cohesive overall picture which spotlights the car's crisp surface language with particular clarity. The dark cladding below the rear apron lifts the whole rear end visually, while at the same time giving its upper section a slimmer look. The body-colour rear apron provides a dynamic flourish to round off the lower reaches of the rear. A large tailpipe at either outer extreme emphasises the car's broad stance, while the surrounding surfaces reference the three-way split and overall form of the front air intakes.

## 6. **BMW Connected: New functionality for the BMW 5 Series Sedan.** **Personalisation and new digital services.**



BMW has been progressing the connection between drivers and their cars for many years through its ConnectedDrive technology. And now, with the launch of BMW Connected in the USA in March 2016 and in Europe in August, the company has introduced an all-encompassing digital concept designed to aid personal mobility. The new 5 Series Sedan includes various new functions such as BMW Connected Onboard – a personalised start screen for every driver – and Remote 3D View, which lets users keep an eye on their 5 Series Sedan's immediate vicinity at all times with a quick glance at their smartphone. Additionally, BMW ConnectedDrive now includes a hazard preview feature as part of the Real Time Traffic Information (RTTI) service.

With BMW Connected, mobility extends beyond the vehicle.

BMW Connected is a personalised digital mobility assistant that combines the various functions that assist with everyday mobility. It detects mobility-related information such as addresses and arrival times contained in calendar entries, and notifies the driver of the ideal departure time in order to arrive at their destination punctually on the basis of real-time traffic information.

BMW Connected is also handy for transferring places and special points of interest from other apps, storing them as a destination together with the desired arrival time, and then effortlessly importing them to BMW in-car navigation systems. On top of that, for hybrid and BMW i models, BMW Connected allows relevant data such as the remaining range or battery charge to be retrieved remotely and factored into journey planning before a journey begins.

### **BMW Connected Onboard in the new BMW 5 Series Sedan: the personalised start screen.**

Drivers can keep an eye on mobility-related information using the new BMW Connected Onboard service. Their personalised screen on the in-car display shows a list of their upcoming navigation destinations and allows them to call up information on routes and destinations. They are also provided with constantly updated information on their expected arrival time, possible traffic-related delays, remaining fuel levels, and the parking options at their destination. To this end, BMW Connected transfers the driver's personal mobility agenda directly from their smartphone into their car. The BMW Connected Onboard service will be introduced alongside the new BMW 5 Series Sedan.

### **BMW Connected in the new BMW 5 Series Sedan brings Remote 3D View to the owner's smartphone.**

Surround View and Remote 3D View offer peace of mind to anyone who frequently finds themselves manoeuvring in awkward traffic situations in city centres by allowing them to keep an eye on the area surrounding their BMW 5 Series at all times. The system shows a bird's-eye view of the driver's car as well as a three-dimensional image of the traffic situation. The new BMW Connected Remote 3D View feature now also allows these three-dimensional views of the vehicle's surrounding area to be displayed on a smartphone. Owners can therefore quickly check on their parked car no matter how far away it is. The image data is transmitted over the mobile phone network to their mobile device.

### **BMW has integrated BMW Connected into Alexa.**

Since October 2016, customers in the USA, Germany, and the United Kingdom have been able to access BMW Connected using Alexa and Alexa-compatible devices. This enables them to call up functions such as a battery charge check – or to lock the doors of their vehicle – from the comfort of their home using only voice commands. The integration of BMW Connected into Alexa provides evidence of BMW's leading role in the area of digitalisation – BMW is one of the first car makers to support voice control and access to vehicle information via Alexa.

### **The ongoing development of BMW Connected.**

BMW Connected already comprises many functions which support daily mobility needs inside and outside the car. For example, various devices such as smartphones and smartwatches can be connected with the car via the Open Mobility Cloud. The BMW Connected services are steadily being rolled out across the various touchpoints. A recent update in December 2016 enabled the familiar Remote Services to be accessed using an Apple Watch. Indeed, BMW owners can now lock and unlock their cars and activate the ventilation system using their smartwatch in the same way they have from their smartphone up to now.

An update in February 2017 will include a calendar display function enabling users to see all of the appointments stored on their smartphone calendar on the in-car display. Where previously only the day's appointments and the next planned route could be viewed inside the car, now users can also call up a wider overview of upcoming appointments. This overview shows the calendar entries complete with headings and times. When the user selects an appointment, additional information such as the description of the meeting

and the participants in it along with their contact details are also displayed and can be read out by the system.

**BMW ConnectedDrive with hazard preview.**

A hazard preview feature has been added to the Real Time Traffic Information (RTTI) service from BMW ConnectedDrive for the launch of the new 5 Series. As well as real-time reports on the traffic situation, the service now also displays hazards detected by other BMW vehicles. To this end, anonymised sensor data is used to warn drivers of serious accidents or heavy rain ahead. Hazard alerts and rainfall are shown on the map in the car's display, and if the driver is approaching a hazard, an additional warning or alert appears on the screen. In vehicles already equipped with RTTI, the new function is automatically added to the service. If RTTI has not yet been downloaded, it can be ordered from the BMW ConnectedDrive Store.

The system is based on the presence of numerous sensors on BMW vehicles which identify road conditions, ambient conditions, and potential hazards. Vehicles can also communicate with their surroundings using a mobile phone connection. This combination of detection and communication enables hazards recognised by a vehicle to be processed without delay by a central server and communicated to other vehicles.