

BMW at the North American International Auto Show (NAIAS) 2016 in Detroit. Contents.



1. BMW at the North American International Auto Show 2016 in Detroit. (Highlights in brief)	2
2. BMW at the North American International Auto Show 2016 in Detroit. (Summary)	3
3. BMW at the North American International Auto Show 2016 in Detroit. (Long version)	
3.1 The new BMW M2 Coupe: High-performance sports machine with intoxicating performance.	7
3.2 The new BMW X4 M40i: Setting the benchmark for dynamic excellence in its segment.	9
3.3 Breaking new ground in electric driving pleasure: BMW i shapes the future face of mobility.	11
3.4 The latest innovations from BMW ConnectedDrive: Intelligent applications and systems offer enhanced comfort and safety.	14



1. BMW at the North American International Auto Show 2016 in Detroit. (Highlights in brief)

- BMW will be presenting two world premieres at the North American International Auto Show (NAIAS) in Detroit from 11 – 24 January 2016.
- World premiere: The new BMW M2 Coupe sets the benchmark in the compact high-performance sports car segment with motor sport technology for the road and race track honed at the famous Nürburgring-Nordschleife circuit.
Key features: New six-cylinder in-line engine with M TwinPower Turbo technology and three-litre displacement, 272 kW/370 hp, peak torque: 465 Nm / 343 lb-ft. (Fuel consumption combined: 8.5–7.9 l/100 km (33.2–35.8 mpg imp); CO₂ emissions combined: 199–185 g/km)*. Acceleration from 0 to 100 km/h (62 mph): 4.3 seconds, top speed: 250 km/h /155 mph (governed), with M Driver's Package: 270 km/h / 168 mph (governed).
- World premiere: The new BMW X4 M40i is the flagship model in the successful BMW X4 model range and sets new standards in the premium mid-size Sports Activity Coupe (SAC) segment.
Key features: Newly developed six-cylinder in-line engine with cutting-edge M Performance TwinPower Turbo technology and three-litre displacement, 265 kW/360 hp, peak torque: 465 Nm / 343 lb-ft. (Fuel consumption combined: 8.6 l/100 km (32.9 mpg imp); CO₂ emissions combined: 199 g/km)*. Acceleration from 0 to 100 km/h (62 mph): 4.9 seconds, top speed: 250 km/h /155 mph (governed).
- BMW i is firmly established in the electrically-powered vehicle market. Since the launch of the BMW i3, one in every 10 all-electric passenger cars delivered to customers worldwide is an i3. In the US market the figure is one in every eight electric cars sold. Transfer of BMW i technology to BMW models: all BMW plug-in hybrid models feature BMW eDrive technology developed for BMW i cars; industrially manufactured CFRP employed in the new BMW 7 Series.
- Innovative connectivity: comfort and safety enhanced by the latest developments from BMW ConnectedDrive, such as Remote Control Parking, extended functionality for the Driving Assistant, BMW Night Vision with marker light and Surround View with 3D View.

2. **BMW at the North American International Auto Show 2016 in Detroit.** (Summary)



BMW is set to enter its anniversary year of 2016 on a powerful note. With the centenary of its founding just around the corner, the company is using the North American International Auto Show (NAIAS), taking place in Detroit from 11 – 24 January, to host the world premieres of the new BMW M2 and BMW X4 M40i performance models. Joining the two new cars at the stand will be the trailblazing BMW i models and innovative services covering every aspect of electric mobility. BMW ConnectedDrive, meanwhile, is showcasing its latest range of applications and systems, such as Remote Control Parking.

The BMW Group's successful involvement in North America dates back more than 40 years. Bayerische Motorenwerke has been represented in the USA by its subsidiary BMW of North America since 1975, and the company went on to build its own production facility in Spartanburg, South Carolina in 1992. Model variants designed specifically for the US market and BMW's commitment to motor racing series stateside, such as the IMSA WeatherTech SportsCar Championship (in which the newly developed BMW M6 GTLM will compete in 2016), underline the significance of the BMW Group's second-largest sales market, which also serves as an important ideas factory for new developments. The USA has thus become a second home for the BMW Group, and more than 70,000 people are now employed in the country by BMW and its partner companies.

This is a success story with no end in sight. Investment worth one billion US dollars is currently being channelled into BMW Group Plant Spartanburg in South Carolina to increase capacity, which will see the facility playing an even more important role within the BMW Group production network in the future. Plant Spartanburg builds BMW X models for customers around the world and has enabled BMW to become the largest car exporter in the USA by value. Alongside the expansion of its production facilities, the company has also focused its attention on setting up two driving safety centres. One is the Performance Center at Plant Spartanburg, the other can be found in California, in southern Palm Springs. Here, BMW drivers, future customers and BMW fans can experience the performance capability of the Ultimate Driving Machine as part of driver training courses.

The new BMW M2 Coupe: a high-performance sports car with spine-tingling performance.

Back in the early 1970s, the BMW 2002 turbo was already causing heads to turn and hearts to flutter. Indeed, the compact high-performance sports car perfectly encapsulated BMW's resolution to deliver outstanding dynamics, agility and car control. And now, over 40 years on, BMW M GmbH is unveiling the new BMW M2, as if to demonstrate once again that this commitment is alive and well. With its high-performance six-cylinder in-line engine, rear-wheel-drive agility, lightweight aluminium M Sport suspension and extrovert styling, the new BMW M2 Coupe has all the ingredients to deliver the last word in driving pleasure. The newly developed three-litre six-cylinder in-line unit powering the BMW M2 uses state-of-the-art M TwinPower Turbo technology to develop 272 kW/370 hp at 6,500 rpm and, in so doing, lays down a marker in the high-performance compact sports car segment. The same applies to power delivery. Peak torque of 465 Nm (343 lb-ft) can be increased to as much as 500 Nm (369 lb-ft) in short bursts under overboost, all of which enables the new BMW M2 with optional seven-speed M Double Clutch Transmission (M DCT) and Launch Control to accelerate from rest to 100 km/h (62 mph) in just 4.3 seconds. Top speed is electronically limited to 250 km/h (155 mph), or 270 km/h (168 mph) if the M Driver's Package is specified. Yet, with its M DCT transmission, fuel consumption of just 7.9 litres* per 100 km (35.8 mpg imp) and CO₂ emissions of only 185 g/km*, the car is also keen to emphasise its outstanding efficiency. And even greater driving pleasure is on the cards when the Dynamic Stability Control system's M Dynamic Mode (MDM) is activated. MDM allows wheel slip and therefore moderate, controlled drifts on the track.

The new BMW X4 M40i: setting the benchmark in its segment for outstanding driving dynamics.

The successful BMW X4 range has gained a new flagship model with the arrival of the BMW X4 M40i. Offering even sharper dynamics, distinctive looks and exclusive equipment details, BMW moves the game on once again in the Sports Activity Coupe (SAC) segment. A newly developed M Performance TwinPower Turbo six-cylinder in-line petrol engine celebrates its world premiere under the bonnet of the BMW X4 M40i. The three-litre unit produces an output of 265 kW/360 hp between 5,800 and 6,000 rpm and generates peak torque of 465 Nm (343 lb-ft). Armed with this high-performance engine and leading-edge M Performance TwinPower Turbo technology, the BMW X4 M40i sprints from 0 to 100 km/h (62 mph) in 4.9 seconds and reaches an electronically governed top speed of 250 km/h (155 mph).

BMW i: trailblazer for electric driving pleasure and everyday usability.

Following the successful global launch of the purely electrically powered BMW i3 (energy consumption combined: 12.9 kWh; CO₂ emissions combined: 0 g/km)* and the BMW i8 plug-in hybrid sports car (fuel consumption combined: 2.1 l/100 km / 134.5 mpg imp; CO₂ emissions combined: 49 g/km)* the BMW i brand is now further cementing its status as a trailblazer for sustainable mobility with a growing variety of vehicle and mobility services.

Since its arrival in the car market two years ago, in late 2013, the BMW i brand has established itself as a genuine success story for BMW. With the BMW i3 – the world's first compact premium electric vehicle with a design specifically geared to electric mobility – and the revolutionary BMW i8 hybrid sports car, BMW i has come up with a pair of models that are generating huge excitement and high demand around the world. As such, BMW has firmly established itself in the electric vehicle market. Indeed, one in every 10 all-electric passenger cars delivered to customers worldwide since the launch of BMW i is an i3. In the US market the figure is one in every eight electric cars sold while in Germany it is as high as one in five (all figures as at October 2015). Furthermore, the BMW i3 is the third- highest-selling electric car worldwide – as well as the only one able to increase its operating radius with an optional Range Extender combustion engine. Another critical element in the strong demand BMW is experiencing for BMW i models is that four out of every five BMW i3 customers in Europe have previously driven vehicles from other manufacturers – so are new to the BMW brand.

BMW i is providing further impetus by transferring technology to additional BMW brand models. All of BMW's plug-in hybrid models, for instance, employ the BMW eDrive technology developed for BMW i cars in the form of electric motors, power electronics, high-voltage batteries and intelligent energy management. Equally, the experience in using industrially manufactured CFRP garnered during the development of BMW i cars has now helped to reduce the weight of the new BMW 7 Series luxury sedans.

**The latest innovations from BMW ConnectedDrive:
intelligent applications and systems enhance comfort and safety.**

BMW is highlighting the latest advances in the field of intelligent connectivity with an even greater variety of driver assistance systems and applications that take comfort and safety to another new level. The latest developments from BMW ConnectedDrive include Remote Control Parking, extended functionality for the Driving Assistant, BMW Night Vision with marker light and Surround View with 3D View.

Further information on official fuel consumption figures, specific CO₂ emission values and the electric power consumption of new passenger cars is included in the following guideline: "Leitfaden über fuel consumption, die CO₂ emissions and den Stromverbrauch neuer Personenkraftwagen" (Guideline for fuel consumption, CO₂ emissions and electric power consumption of new passenger cars), which can be obtained from all dealerships, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen and at <http://www.dat.de/en/offers/publications/guideline-for-fuel-consumption.html>. LeitfadenCO₂ (GuidelineCO₂) (PDF – 1.9 MB)

For the latest information about US specifications, including fuel efficiency, equipment, and pricing, please visit www.bmwusa.com.



3. BMW at the North American International Auto Show 2016 in Detroit 2016. (Long version)

3.1 The new BMW M2 Coupe: High-performance sports car with intoxicating performance.

A compact high-performance BMW sports car was already causing heads to turn and hearts to flutter over 40 years ago. Indeed, the BMW 2002 turbo perfectly encapsulated BMW's resolution to deliver outstanding dynamics, exceptional agility and optimum car control. As if to demonstrate in similarly resounding style that this commitment is alive and well, BMW M GmbH can now unveil the new BMW M2. With its high-performance six-cylinder in-line engine, rear-wheel-drive agility, lightweight aluminium M Sport suspension and extrovert styling, the new BMW M2 Coupe has all the ingredients to deliver the last word in driving pleasure.

Explosive performance.

The newly developed, three-litre six-cylinder in-line engine in the new BMW M2 deploys cutting-edge M TwinPower Turbo technology to develop 272 kW/370 hp at 6,500 rpm (fuel consumption combined: 8.5 l/100 km [33.2 mpg imp]; CO₂ emissions combined: 199 g/km)* and, in so doing, lays down a marker in the high-performance compact sports car segment. The same applies to power delivery. Peak torque of 465 Nm (343 lb-ft) can be increased to as much as 500 Nm (369 lb-ft) in short bursts under overboost. All of which enables the new BMW M2 Coupe with optional seven-speed M Double Clutch Transmission (M DCT) and Launch Control to accelerate from 0 to 100 km/h (62 mph) in just 4.3 seconds. Top speed is electronically limited to 250 km/h (155 mph) – or 270 km/h (168 mph) if the M Driver's Package is specified. Yet, with its M DCT transmission, fuel consumption of just 7.9 litres* per 100 km (35.8 mpg imp) and CO₂ emissions of just 185 g/km*, the car is also keen to emphasise its outstanding efficiency.

Motor sport expertise.

With the lightweight aluminium front and rear axles from the BMW M3/M4 models, forged 19-inch aluminium wheels with mixed-size tyres, M Servotronic steering with two settings and suitably effective M compound brakes, the new BMW M2 Coupe has raised the bar once again in the compact high-performance sports car segment when it comes to driving dynamics. The electronically controlled Active M Differential, which optimises traction and directional stability, also plays a significant role here. And even greater driving pleasure is on the cards when the Dynamic Stability Control system's M Dynamic Mode (MDM) is activated. MDM allows wheel slip and therefore moderate, controlled drifts on the track.

* Fuel consumption figures calculated on the basis of the EU test cycle, may vary depending on the tyre format specified.

Characteristic M design.

A single glance is all it takes to pick the new BMW M2 Coupe out as a member of the BMW M family, with its styling also keen to advertise its dynamic attributes. Inspired by models from the history of BMW in motor racing, the new M2 Coupe makes no secret of its extraordinary performance potential. The low front apron with large air intakes, muscular flanks with characteristic M gills, 19-inch aluminium wheels in familiar M double-spoke design and low, wide rear with M-specific twin-tailpipe exhaust system all play impressive roles here. The time-honoured character of BMW M cars is also present and correct in the design of the interior. The Alcantara of the door cards and centre console together with porous carbon fibre creates an ambience of rare quality and heady sporting ambition further underlined by blue contrast stitching and M embossing on selected details. Sports seats, an M sports steering wheel and an M gearshift lever ensure BMW M2 drivers are in perfect command of their car at all times.

Intelligent connectivity when you want it.

The new BMW M2 Coupe comes with an extensive list of standard equipment in keeping with its performance-focused set-up. The seven-speed M Double Clutch Transmission (M DCT) with Drivelogic, available as an option, changes gears with extraordinary speed but no interruption in the flow of power. A wide selection of driver assistance systems and mobility services from BMW ConnectedDrive is also available. The ConnectedDrive Services provide the basis for extensive vehicle connectivity, and this option also enables the use of innovative apps, which are integrated seamlessly into the car using BMW ConnectedDrive technology. For example, the GoPro app allows the driver to record fast laps of the track with a dashboard-mounted action camera, using the iDrive Controller and Control Display. Meanwhile, the driver's individual style at the wheel can be analysed as desired with the M Laptimer app. Information on speeds and braking points can be shared easily via e-mail or Facebook.

From powerful stock.

The new BMW M2 Coupe is not only the direct heir to the successful BMW 1 Series M Coupe, but also – in its underlying philosophy – a descendant of the original E30 BMW M3 and the BMW 2002 turbo. The latter caused a sensation over 40 years ago, anticipating the commitment of what is now BMW M GmbH to outstanding dynamics, unbeatable agility and optimal car control.

Click here for further information on [the new BMW M2 Coupe](#).

3.2 The new BMW X4 M40i: Setting the benchmark for dynamic excellence in its segment.



With the introduction of the new BMW X4 M40i, the successful BMW X4 model range has gained a new top model. In the Sports Activity Coupe segment (SAC), the BMW X4 M40i is setting new standards with even more keenly honed driving dynamics, a high degree of emotionalism and singular exclusivity.

Distinctive look.

The exterior of the new BMW X4 M40i demonstrates clearly the high standards set by BMW M Performance Automobiles. Exclusive accents of colour on the front of the vehicle and the exterior mirrors finished in Ferric Grey metallic as well as the exclusive 20-inch M light-alloy wheels in double-spoke design with the Ultra High Performance mixed tyres (optional) and the sports exhaust system with valve control and black chrome tailpipes on both sides emphasise the unique character of the new BMW X4 M40i. In the interior, too, the typical character of BMW M is always present. The M leather steering wheel, the M gearshift lever, the sport seats and model-specific door sill plates provide a foretaste of imminent driving pleasure, just like the "X4 M40i" digital lettering on the instrument cluster.

Powerful and economical.

A newly developed M Performance TwinPower Turbo six-cylinder in-line petrol engine celebrates its world premiere in the new BMW X4 M40i. This engine delivers 265 kW/360 hp at between 5,800 and 6,000 rpm from its three-litre capacity, providing a maximum torque of 465 Nm / 343 lb-ft (combined fuel consumption: 8.6 l/100 km [32.9 mpg imp]; combined CO₂ emissions: 199 g/km)*. With this high-performance engine and the advanced M Performance TwinPower Turbo technology, the BMW X4 M40i accelerates in 4.9 seconds to 100 km/h (62 mph) and can reach a top speed of 250 km/h / 155 mph (electronically limited).

Superior driving dynamics.

The specially tuned sports suspension of the new BMW X4 M40i provides driving dynamics at an advanced level. Stronger springs and anti-roll bars, increased camber on the front axle, M Performance specifications for the adaptive dampers and the BMW xDrive all-wheel-drive system (with its rear wheel-drive characteristics and Performance Control) ensure a neutral self-

* Fuel consumption figures calculated on the basis of the EU test cycle, may vary depending on the tyre format specified.

steering response as well as a reduced roll tendency and guarantee a maximum of driving pleasure.

Click here for further information on [the new BMW X4 M40i](#).

3.3 Breaking new ground in electric driving pleasure: BMW i shapes the future face of mobility.



The BMW i brand stands for visionary mobility concepts, progressive design and an understanding of premium which is strongly defined by sustainability. BMW i products are now available in 36 countries and the range includes tailor-made vehicle concepts and innovative services delivering electric mobility. By introducing the world's first premium cars designed from the outset to provide locally emission-free driving – the pure-electric BMW i3 and pioneering BMW i8 plug-in hybrid sports car – not to mention the services introduced under its 360° ELECTRIC banner, BMW i has built up the largest global market presence of any electric vehicle manufacturer within an extremely short space of time and taken on an active role in shaping the face of personal mobility in the future.

The stand-out features of BMW i cars include the LifeDrive architecture developed specially for the new brand's models, complete with a passenger cell made from carbon-fibre reinforced plastic (CFRP). This architecture combines an intelligent lightweight construction, and the new freedoms in design that this allows, with BMW eDrive drive system technology to deliver groundbreaking efficiency combined with outstanding everyday usability and the driving pleasure for which BMW is renowned. The range of 360° ELECTRIC and ChargeNow services are focused on enabling customers to use electric mobility solutions every day. They offer customers convenient solutions for charging their cars from a Wallbox at home and easy access to the largest worldwide network of charging points. Registering with local operators is a thing of the past.

The BMW i success story.

It is just two years since BMW i began deliveries of its first electric vehicles. These early cars represented the opening chapter in what has become a story of success, and it is now hard to imagine the electric vehicle market without BMW i at its centre. With the BMW i3 – the world's first compact premium electric vehicle purpose-built to provide electric mobility – and the revolutionary BMW i8 hybrid sports car, BMW i has a pair of models in its range which have sparked great excitement and burgeoning demand around the globe, earning the brand an enviable international reputation in the process. Indeed, no other car brand has won as many awards in its introductory phase as BMW i.

BMW i has now established itself as a fixture in the electric vehicle market. One in 10 all-electric passenger cars delivered to customers worldwide since the launch of the BMW i3 has been an i3. In the US market the figure is one in every eight electric cars sold, while in Germany it is one in five. Moreover, the BMW i3 now stands third in the global sales rankings for electric cars and in September 2015 was the second-strongest-selling electric vehicle of any kind in the USA. In Norway, one in every five BMW models sold in 2015 has been a BMW i3, and the i3 is the only electrically-powered vehicle worldwide to be available with an optional Range Extender to add further miles to its operating range. (All figures as at October 2015.)

The high demand for BMW i models brings with it another critical success factor for BMW: four out of five BMW i3 customers in Europe previously drove cars from other manufacturers, and are thus new to the BMW brand. Now other BMW models – namely the hybrid variants of the BMW 2 Series, BMW 3 Series, BMW X5 and new BMW 7 Series – also offer drivers the chance to enjoy innovative BMW eDrive technology from the BMW i3 and BMW i8.

Electric mobility BMW i-style can also be experienced in an increasing number of cities under the car-sharing scheme DriveNow. BMW i views its involvement in DriveNow as a strategic initiative to offer the wider public an easy way of trying out electric mobility for the first time. Car-sharing with electric vehicles, furthermore, helps to improve the quality of life in towns and cities thanks to the combination of zero local emissions, quietness and reduced traffic volumes.

The BMW i3 is now also racking up the miles for DriveNow customers in Copenhagen as well as London and Berlin. The line-up of 400 BMW i3 cars in the Danish capital constitutes the world's largest electric vehicle car-sharing fleet – one which also links in with the local public transport network.

BMW i as a driver of innovations: BMW eDrive, 360° ELECTRIC, CFRP technology and BMW Laserlight heading for the BMW brand's model line-up.

The trailblazing nature of the technology developed initially for BMW i cars is being showcased to an ever wider audience, thanks in part to its adoption by BMW brand models. For example, BMW i eDrive technology is included – in the form of electric motors, power electronics, high-voltage batteries and intelligent energy management – in the BMW X5 xDrive40e, BMW 740e, BMW 330e and BMW 225xe plug-in hybrid models. Specific services from 360° ELECTRIC are also available for BMW's plug-in hybrid models to

combine the electric driving experience with an exceptionally high level of comfort, reliability and everyday usability.

At the same time, the experience gained in the use of CFRP in the development of BMW i cars has helped to minimise the weight of the BMW 7 Series. The luxury sedan has an innovative Carbon Core body structure, in which industrially produced CFRP has been used for the first time in combination with steel and aluminium. The new BMW 7 Series is also the first model in the luxury sedan segment that comes with the option of BMW Laserlight. These laser headlights, whose benefits include a full beam range double that of LED headlights (at around 600 metres), were first offered in a series-produced car in the BMW i8.

Click here for further information on [BMW i](#).

3.4 The latest innovations from BMW ConnectedDrive: Intelligent applications and systems offer enhanced comfort and safety.



Connectivity between driver, vehicle and the outside world is becoming ever more important. BMW was quick to recognise this trend and today ranks among the leading carmakers worldwide in this area. Driver assistance systems and digital services and features are pooled together under the umbrella of BMW ConnectedDrive and serve to increase safety and convenience while using the vehicle. At the NAIAS 2016 in Detroit, BMW is underlining its status as a leading innovator in this field and presenting the latest new features and extensions for the existing wealth of applications. Examples include Remote Control Parking, extended functionality for the Driving Assistant, BMW Night Vision with marker light, and Surround View with 3D View – not to mention a super-fast WiFi hotspot and automatic navigation map updates.

Remote Control Parking and BMW Parking Assistant.

The new BMW 7 Series is the first production car in the world that can manoeuvre into enclosed parking spaces or garages and out again without a driver at the wheel. The Remote Control Parking option therefore allows narrow parking spaces to be used with ease. The process of driving forward into the space and reversing out again is triggered by the driver from outside the car by means of another new development, the BMW Display Key, and then performed autonomously by the vehicle. During the parking manoeuvre, the driver must watch out for obstacles and bring the vehicle to a controlled stop if necessary. In order to activate the Remote Control Parking function, the vehicle must be positioned so that it is centred just in front of the selected parking space. The distance covered while moving into and exiting parking spaces without a driver may not exceed 1.5 times the vehicle's length.

Drivers can also receive assistance with parking when they are seated at the wheel. The latest version of the optional Parking Assistant takes all the hard work out of selecting and manoeuvring into spaces that are either parallel or perpendicular to the road. The system takes care of the entire parking procedure, including all the necessary steering, gear selection, acceleration and braking processes. The Active Park Distance Control function additionally comes to the driver's aid during manual reversing manoeuvres. It helps to prevent collisions with obstacles in the vicinity of the vehicle's rear end by applying the brakes in time.

Driving Assistant and Driving Assistant Plus: new functions for even greater convenience and safety.

The functionality of the optional Driving Assistant safety package has been extended to include the functions Rear collision prevention and Crossing traffic warning for the rear of the vehicle. The data supplied by radar sensors located on the sides of the vehicle's tail end is analysed for both functions. To reduce the risk of a rear-end collision, the hazard lights are flashed at high frequency in relevant situations in order to attract the attention of traffic behind. If a collision can no longer be avoided, the Active Protection system's measures, such as pre-tensioning the seat belts and closing the side windows and sunroof, are automatically activated.

The Crossing traffic warning system helps the driver when reversing out of parking spaces in awkward traffic situations. The driver is warned of cross traffic by means of acoustic alerts and a graphic in the Control Display. In conjunction with the optional rear view camera, the wider-angle image of the traffic situation behind the vehicle appears on the Control Display. The Driving Assistant also comprises approach control and person warning with light city braking function, Lane Change and Lane Departure Warning, as well as Speed Limit Info with no-overtaking indicator.

Driving Assistant Plus includes not only Active Cruise Control with Stop & Go function and Crossing traffic warning at the front, but also the Steering and lane control assistant including traffic jam assistant, as well as the Lane keeping assistant with active side collision protection. These functions employ a stereo camera plus radar sensors at the front and sides in order to detect not just the lane boundary markings, but also vehicles ahead, at the side or approaching from behind. They help drivers to stay in the centre of their lane or follow the vehicle ahead at speeds of up to 210 km/h (130 mph) by means of comfortable steering inputs. The Steering and lane control assistant can be used independently of the Active Cruise Control on all types of road. The systems can furthermore help to prevent collisions with other road users approaching from the side or from behind when changing lane. On top of all this, the traffic jam assistant reduces the driver's workload when driving in heavy traffic on any type of road. This semi-automated driving function takes the strain out of driving in such situations by assisting with the steering, provided that the driver keeps at least one hand on the steering wheel.

The functionality of the Active Cruise Control with Stop & Go function has also been extended. In future, whenever the system is active, a push of a button will be all it takes to factor in speed restrictions detected by the Speed Limit Info function and adapt the selected cruising speed accordingly.

Keeping everything in sight: BMW Night Vision with Dynamic Light Spot, Surround View with 3D View.

Added driving pleasure and safety at night-time are provided by the optional features Adaptive LED Headlights with BMW Selective Beam for making optimum use of the high beam and BMW Night Vision. The latter system comprises a facility for detecting pedestrians and animals ahead as well as the Dynamic Light Spot marker light. It relays a real-time video image to the Control Display showing people, larger animals and other objects that give off heat. The detected objects are furthermore selectively illuminated with the headlights. In this way, the driver is alerted to potential danger in good time and can react accordingly.

The latest generation of the Surround View system now supplements the Top View function with a 3D View in the Control Display as well as the Panorama View function for checking what is happening in the areas to the sides of the vehicle, either in front of it or behind. When manoeuvring in awkward situations, meanwhile, the 3D View makes it possible to call up images in the Control Display that show the vehicle and its surroundings from different perspectives, making it easier to manoeuvre safely in tight spaces.

Super-fast WiFi hotspot in BMW models.

BMW customers can turn new cars from various model ranges into a WiFi hotspot when fitted with the Navigation system Professional and built-in SIM card. This enables the vehicle's occupants to surf using the high-speed LTE network with up to ten mobile devices and at speeds of up to 100 Mbit/s. The service can be booked online directly with the mobile phone provider. There is an ever-increasing demand for in-car broadband internet for transmitting larger quantities of data, for example for music or video streaming. With the WiFi hotspot, BMW is now providing the necessary technical infrastructure to guarantee high-speed internet access for mobile devices anywhere, anytime.

Automatic navigation map updates.

BMW ConnectedDrive allows select BMW models fitted with the Navigation system Professional to receive regular automatic navigation map updates. The map data is transmitted over the air via the mobile phone network using the vehicle's built-in SIM card and is automatically installed. The user does not have to pay either licensing fees or data transmission charges for the first three years.

With this system, the navigation maps update automatically up to four times a year, putting an end to the problem of outdated datasets. Updated navigation maps keep the system informed of new roads and modified traffic layouts. This data can then be factored in for effective route planning in the same way

as information can be transmitted to the electrical system to assist with anticipatory energy management.

All navigation functions continue to be fully available while the update is in progress. The region for the automatic map updates can furthermore be changed in the BMW ConnectedDrive customer portal, for instance following a change of address.

Click here for further information on [BMW ConnectedDrive](#).