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## Valeo's driving assistance systems act as co-pilots for low-speed maneuvers

**Paris, France, October 2, 2008** – Valeo's driving assistance systems act as virtual co-pilots, assisting the driver's own eyes. Based on its full range of radar, ultrasonic and camera surveillance systems, Valeo offers solutions that monitor the vehicle's environment and provide the driver with 360° vision thus enhancing safety and driving comfort during low-speed maneuvers.

Valeo has recently launched **360Vue™**, a new solution based on multicameras, offering 360° vision around the vehicle. When the cameras are linked to ultrasonic sensors, the system detects obstacles and precisely measures distances, while a network of cameras monitors the vehicle's surroundings, making maneuvers that are hazardous due to poor visibility, such as reversing or crossing a dangerous junction, much safer.

The first vehicle to be equipped with this system will be available late 2008. Other vehicles for various automakers will follow in 2009.

The **ParkVue™** system, which has equipped the Volvo XC90 since 2006, is now available on the Ford Kuga. It uses a rear camera and ultrasonic sensors to provide the driver not only with perfect visibility behind the vehicle but also enables him to evaluate distances by means of a series of colored bars.

Valeo is world leader in ultrasonic parking assistance systems, and produced its 100 millionth sensor this year. **Park4U™**, is a sensor-based application for automatic parking: when the lateral sensors detect a space, the driver simply stops the car next to it, puts the car into reverse and releases the steering wheel. The system manages the maneuver, while the driver remains in control of braking and acceleration. Day or night, whether the space is straight or curved, Park4U™ carries out the maneuver.

The system equips the Audi A3, the Skoda Superb, six Volkswagen models and, more recently, the new Golf VI. The second generation will go on the market in 2009, and will be able to park in even tighter spaces. 18 models will carry the system by 2010.

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**A world first: Valeo equips the Volvo XC60 with its MicroOptics™ technology**

**Paris, France, October 2, 2008** – Valeo announces that the rear lighting of the new Volvo XC60 features its new MicroOptics™ technology.

Valeo is the first automotive supplier to offer a unique **lighting and signaling** style, using a new optical surface that spreads light uniformly. MicroOptics™ can diffuse a fully configurable light source. The light from just a few LEDs, for example, can be evenly spread across a very large area, such as rear lighting. It is also possible to produce shading effects that give the lights a 3-D appearance.

Compliant with current regulations, this technology offers yet greater design freedom such as differentiated daytime and nighttime styling. It can be applied both to front and rear exterior lighting, even if they have complex shapes.

Combined with LEDs, MicroOptics™ technology offers the benefits of low power consumption and a lifetime equal to that of the vehicle itself.

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### **Valeo's smart key: keeping in touch with your vehicle**

**Paris, France, October 2, 2008** – Valeo, always at the forefront of the latest developments in vehicle access systems, will unveil its smart key at the Paris Motor Show.

The smart key provides a genuine interface between driver and car, allowing people to send information to their vehicle over a considerable distance (several hundred meters). The key's mini screen displays information such as whether the doors are locked and the alarm is activated, tire pressure and fuel tank level. The key can be used to preprogram the seat position or radio station, to pre-ventilate the cabin, and to exchange navigation destinations downloaded from a computer. Information can also be exchanged between keys.

Valeo's booth at the Motor Show will look back over the history of car keys and the evolution of vehicles access. Valeo's subsidiary Neiman™ was the first to offer mechanical steering column locks and locks. The 1970s saw the emergence of central locking, followed in the 1980s by the Plip™, an infrared emitter invented by Valeo. The next step forward, in early 2000, was a hands-free access system, which dispensed altogether with the need to fumble with keys. Today's new generation of smart keys offers people an easy, practical way to communicate with their cars.

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### **Additional smart models to be equipped with Valeo's micro-hybrid system**

**Paris, France, October 2, 2008** – Valeo announced today that its StARS micro-hybrid system, already available on the smart mhd for a year, will now be extended to all 45 KW and 52 KW gasoline engine models.

This system shuts the engine off when the vehicle is stationary, at a red light, for example, and starts it up instantly and silently as soon as the brake pedal is released, generating fuel savings of up to 19%.

The rising urban population is making city streets increasingly congested. Given that cars in the city are stationary for over one third of the time, with the engine idling uselessly, the Stop-Start function takes on considerable significance. In heavy city traffic, fuel savings can reach 25%. Valeo considers that this system will inevitably be extended to all vehicles worldwide.

StARS is already available on the Mercedes-Benz A and B Classes and on the Citroën C3 and C2, and will equip one million PSA Peugeot Citroën vehicles by 2011. Recognized by automakers, it has received several international prizes, including the 2008 Automechanika Innovation Award in the "systems" category and the 2006 PACE Award.

During the Paris Motor Show, in order to allow the public to discover this technology, several smart and C3 models equipped with StARS and decorated in Valeo's colors will be on show at the entrance to the event during the press days and at weekends. An educational mock-up of this system will also be on display at the Valeo booth, along with other technologies enabling a reduction of up to 40% in fuel consumption and CO<sub>2</sub> emissions.

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**Valeo equips the new Mitsubishi Racing Lancer for the 2009 Dakar with a world first: its innovative UltimateCooling™ system**

**Paris, France, October 2, 2008** – As a sponsor of Mitsubishi Motors Motor Sports, Valeo will equip the new Mitsubishi Racing Lancer for the 2009 Dakar Rally with a new engine cooling system offering 5% fuel savings. The Lancer is also equipped with Valeo's LED daytime running lights.

**Unique engine cooling management**

The UltimateCooling™ equipping this vehicle is an innovative engine cooling system that optimizes the cooling of all fluids using two water circuits – one high and one low temperature. It reduces CO<sub>2</sub> emissions and generates fuel savings of up to 5%, and also improves engine performance during acceleration. This system includes two radiators – one high and one low temperature, the latter's rhomboid shape saving space in the front end – and two water-cooled charge air coolers on different levels offering unrivalled cooling efficiency.

**High-performance lighting**

The vehicle is equipped with Valeo's LED daytime running lights, as well as rear lamps and the center high-mounted stop lamp. Recent progress made in these technologies have reduced power consumption and increased the lifetime of the products to that of the vehicle itself.

The Mitsubishi Racing Lancer unveiled at the Paris Motor Show is the first to have a 3-liter V6 turbo diesel engine. The Mitsubishi team's four vehicles will set off on the South American circuit on January 3, 2009.

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### **“Tame the Dark” using Valeo’s Xenon lighting**

**Paris, France, October 2, 2008** – Valeo is promoting safer roads, with Xenon lighting, the only technology currently available that is capable of improving night vision on a very wide range of vehicles. Accidents are three times more frequent at night, and it is therefore vital to use the best available lighting technology. The light produced by Xenon lamps, which is similar to daylight, offers optimal visibility. One survey\* concluded that if all vehicles were equipped with Xenon lighting, the number of deaths on the road at night could be cut by 18%.

Xenon low beams have a range of 110 meters, compared with 80 meters offered by conventional technologies, that is a gain of 30%. This gain jumps to up to 44% with Xenon bending lights.

Xenon lighting does not just contribute to increasing road safety: it saves up to 50% of electricity compared to Halogen lighting, or 1.3g of CO<sub>2</sub> per kilometer. Its bluish tint and visible lens offers designers great styling freedom, and the bulbs last as long as the vehicle itself.

Valeo is taking the opportunity offered by the Paris Motor Show to communicate extensively on the safety benefits of this technology that are not yet widely known in France. There is a special Xenon exhibit on the booth to help visitors to fully appreciate the advantages of this technology for night driving. A "Tame the Dark" competition will be launched on Valeo’s website, [www.valeo.com](http://www.valeo.com), as of October 4, when the show opens its doors to the general public.

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\*carried out in Germany in 2007, by TÜV Rheinland (an independent German body certifying the safety and quality of products, systems and services).