



HELLA expands radar-based driver assistance range

- **New 77 GHz radar sensors from HELLA and Radar System Chips from NXP offer varied and innovative options for integration**
- **Probable launch date: Mid 2018**

Lippstadt, June 9, 2016. The vision of driverless cars is one step closer; acceptance of and demand for driver assistance systems continues to grow. Highly robust and weatherproof radar-based system technologies are gaining in importance as the main way of implementing a wide range of safety and comfort functions. The new CompactRadar Sensor will see HELLA set new standards in 77 GHz technology. This innovation has come about thanks to Radar System Chips from NXP. The CompactRadar Sensors product family will probably launch in mid 2018.

The Radar System Chip at the core of the CompactRadar Sensor from HELLA was first developed by NXP, on the basis of RF-CMOS technology. With an innovative system architecture and ultra-compact, highly integrated design, the entire CompactRadar Sensor is not much bigger than a matchbox. Because it also delivers a high level of performance, this sensor provides a number of new options for integration both inside and outside the vehicle. For example, gesture commands in the interior or the 360° perception of the vehicle's exterior surroundings. The latter is essential for automated parking. Compared with standard ultrasonic sensors, the CompactRadar Sensor also has a larger field of vision, better range, and higher resolution.

As a market leader in 24 GHz radar technology in the narrowband range with decades of know-how, HELLA intends to transfer its expertise to new areas of application. For the development of radar antenna structures, the company has entered into an exclusive partnership, concluded in June 2016, with InnoSenT, a joint venture company in which HELLA has a 50-percent holding. Through the new cooperation, all the radar products manufactured by the Donnersdorf-based technology firm for the automotive industry will be sold exclusively to HELLA. What's more, in the field of Radar System Chips HELLA is extending the business relationship established in 2012 with the Dutch

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semiconductor manufacturer NXP, which first presented the 77 GHz chip at CES 2016. Through close working relations with leading technology firms like InnoSenT and NXP, HELLA produces synergy effects between technological and innovative strength on the one hand and years of experience in industrialization on the other.

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HELLA KGaA Hueck & Co., Lippstadt: HELLA is a global, family-owned company, listed on the stock exchange, with around 32,000 employees at over 100 locations in more than 35 countries. The HELLA Group develops and manufactures lighting and electronic components and systems for the automotive industry and also has one of the largest retail organizations for automotive parts, accessories, diagnostics, and services within Europe. Complete vehicle modules, air-conditioning systems, and vehicle electrical systems are also produced in joint venture companies. With more than 6,000 people working in research and development, HELLA is one of the most important innovation drivers on the market. In addition, with sales of approx. 5.8 billion euros in the fiscal year 2014/2015, the HELLA Group is one of the top 40 automotive parts suppliers in the world and one of the 100 largest German industrial companies.

NXP Semiconductors N.V.: NXP Semiconductors N.V. develops solutions, which create reliable connections and infrastructures for a more intelligent world and therefore make life simpler, better, and safer. As one of the world's leading companies for secure connectivity and integrated applications, NXP drives innovation in the fields of safely networked vehicles, end-to-end security, privacy, and intelligent connections. With 45,000 employees in over 35 countries, the company has more than 60 years experience and expertise in the semiconductor industry.

InnoSenT GmbH, Donnersdorf: InnoSenT has progressed from a small startup to a leading provider of radar technology. From day one, the cornerstones of this success have remained unchanged and build on partnerships with customers and suppliers and our motivated staff. Coupled with an owner-managed corporate culture, providing the flexible and social framework for this, we look forward to further positive developments. At present, InnoSenT's standard products and customized solutions cover the needs of the automotive and industrial sector. These are primarily radar applications for safety (e.g. protecting areas, shutdown and warning functions), comfort (e.g. automatic switching and controlling), and environmental protection (e.g. reducing consumption of power and water through needs-based control).

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