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BMW Group, Intel and Mobileye Team Up to Bring Fully Autonomous Driving to Streets by 2021

- Fleets of fully autonomous cars as basis for new mobility services in urban environments
- BMW Group, Intel and Mobileye are creating an open platform for the next generation of cars to create the safest autonomous platform, from door locks to the datacenter
- The three companies share a common vision and goal, to align the industry on a standards-based platform to quickly bring autonomous vehicles to market

Munich – July 1, 2016. BMW Group, Intel, and Mobileye are joining forces to make self-driving vehicles and future mobility concepts become a reality. The three leaders from the automotive, technology and computer vision and machine learning industries are collaborating to bring solutions for highly and fully automated driving into series production by 2021.

The future of automated driving promises to change lives and societies for the better. But the path to get to a fully autonomous world is complex and will require end-to-end solutions that integrate intelligence across the network, from door locks to the data center. Transportation providers of the future must harness rapidly evolving technologies, collaborate with totally new partners, and prepare for disruptive opportunities.

Together with Intel and Mobileye, the BMW Group will develop the necessary solutions and innovative systems for highly and fully automated driving to bring these technologies into series production by 2021. The BMW iNEXT model will be the foundation for BMW Group's autonomous driving strategy and set the basis for fleets of fully autonomous vehicles, not only on highways but also in urban environments for the purpose of automated ridesharing solutions.

BMW Group, Intel and Mobileye are convinced that automated driving technologies will make travel safer and easier. The goal of the collaboration is to develop future-proofed solutions that enable the drivers to not only take their hands off the steering wheel, but reach the so called "eyes off" (level 3) and ultimately the "mind off" (level 4) level transforming the driver's in-car time into leisure or work time. This level of autonomy would enable the vehicle, on a technical level, to achieve the final stage of traveling "driver off" (level 5) without a human driver inside. This establishes the opportunity for self-driving fleets by 2021 and lays the foundation for entirely new business models in a connected, mobile world.

On July 1, 2016, the three partners were present at the BMW Group Headquarters in Munich to express their commitment to strive for an industry standard and define an open platform for autonomous driving. The common platform will address level 3 to level 5 automated driving and will be made available to multiple car vendors and other industries who could benefit from autonomous machines and deep machine learning.



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The companies have agreed to a set of deliverables and milestones to deliver fully autonomous cars based on a common reference architecture. Near term, the companies will demonstrate an autonomous test drive with a highly automated driving (HAD) prototype. In 2017 the platform will extend to fleets with extended autonomous test drives.

“Today marks an important milestone for the automotive industry as we enter a world of new mobility. Together with BMW Group and Intel, Mobileye is laying the groundwork for the technology of future mobility that enables fully autonomous driving to become a reality within the next few years,” said **Mobileye Co-Founder, Chairman and CTO Professor Amnon Shashua**.

“Mobileye is proud to contribute our expertise in sensing, localization, and driver policy to enable fully autonomous driving in this cooperation. The processing of sensing, like our capabilities to understand the driving scene through a single camera already, will be deployed on Mobileye’s latest system-on-chip, the EyeQ®5, and the collaborative development of fusion algorithms will be deployed on Intel computing platforms. In addition, Mobileye Road Experience Management (REM) technology will provide real-time precise localization and model the driving scene to essentially support fully autonomous driving.”

Intel brings a comprehensive portfolio of technology to power and connect billions of smart and connected devices, including cars. To handle the complex workloads required for autonomous cars in urban environments Intel provides the compute power that scales from Intel® Atom™ to Intel® Xeon™ processors delivering up to a total of 100 teraflops of power efficient performance without having to rewrite code.

“Highly autonomous cars and everything they connect to will require powerful and reliable electronic brains to make them smart enough to navigate traffic and avoid accidents,” said **Intel CEO Brian Krzanich**. “This partnership between BMW Group, Intel and Mobileye will help us to quickly deliver on our vision to reinvent the driving experience. We bring a broad set of in-vehicle and cloud computing, connectivity, safety and security, and machine-learning assets to this collaboration enabling a truly end to end solution.”

With its Strategy Number ONE > NEXT, the BMW Group has developed its framework to remain the driving force behind premium individual mobility. This approach will become driving reality with the BMW iNEXT model in 2021, heralding a new era of mobility.

“At the BMW Group we always strive for technological leadership. This partnership underscores our Strategy Number ONE > NEXT to shape the individual mobility of the future,” stated **Harald Krüger, Chairman of the Board of Management of BMW AG**. “Following our investment in high definition live map technology at HERE, the combined expertise of Intel, Mobileye and the BMW Group will deliver the next core building block to bring fully automated driving technology to the street. We have already showcased such groundbreaking solutions in our VISION NEXT 100 vehicle concepts. With this technological leap forward, we are offering our customers a whole new level of sheer driving pleasure whilst pioneering new concepts for premium mobility.”



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Link to webcast: <http://www.live.bmwgroup.com/2016pk/index.html>

Link to photos: pressconference.bmwpictures.de

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About BMW Group

With its three brands BMW, MINI and Rolls-Royce, the BMW Group is the world's leading premium manufacturer of automobiles and motorcycles and also provides premium financial and mobility services. As a global company, the BMW Group operates 31 production and assembly facilities in 14 countries and has a global sales network in more than 140 countries.

In 2015, the BMW Group sold approximately 2.247 million cars and nearly 137,000 motorcycles worldwide. The profit before tax for the financial year 2015 was approximately € 9.22 billion on revenues amounting to € 92.18 billion. As of 31 December 2015, the BMW Group had a workforce of 122,244 employees.

The success of the BMW Group has always been based on long-term thinking and responsible action. The company has therefore established ecological and social sustainability throughout the value chain, comprehensive product responsibility and a clear commitment to conserving resources as an integral part of its strategy.

About Intel

Intel (NASDAQ: INTC) expands the boundaries of technology to make the most amazing experiences possible. Information about Intel and the work of its more than 100,000 employees can be found at newsroom.intel.com and intel.com.

About Mobileye

Mobileye N.V. (NYSE: MBLY) is the global leader in the development of computer vision and machine learning, data analysis, localization and mapping for Advanced Driver Assistance Systems and autonomous driving. Our technology keeps passengers safer on the roads, reduces the risks of traffic accidents, saves lives and has the potential to revolutionize the driving experience by enabling autonomous driving. Our proprietary software algorithms and EyeQ® chips perform detailed interpretations of the visual field in order to anticipate possible collisions with other vehicles, pedestrians, cyclists, animals, debris and other obstacles. Mobileye's products are also able to detect roadway markings such as lanes, road boundaries, barriers and similar items; identify and read traffic signs, directional signs and traffic lights; create a Roadbook™ of localized drivable paths and visual landmarks using REM™; and provide mapping for autonomous driving. Our products are or will be integrated into car models from 25 global automakers. Our products are also available in the aftermarket.

Forward-Looking Statements

This press release contains certain forward-looking statements. Words such as "believes," "intends," "expects," "projects," "anticipates," and "future" or similar expressions are intended to identify forward-looking statements. These statements are only predictions based on our current expectations and projections about future events. You should not place undue reliance on these statements. Many factors may cause our actual results to differ materially from any forward-looking statement, including the risk factors and other matters set forth in the public filings of each of the parties to this press release. Neither party undertakes any obligation to update or revise any forward-looking statement, whether as a result of new information, future events or otherwise, except as may be required by law.

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