



Press release
October 6th, 2015

Motorcycles become part of the connected vehicle world: BMW Motorrad, Honda and Yamaha cooperate to further increase safety of powered two-wheelers.

Bordeaux/France: BMW Motorrad, Honda Motor Co. Ltd. and Yamaha Motor Co. Ltd. are now collaborating to enhance Cooperative-Intelligent Transportation Systems (C-ITS) applications in powered two-wheelers (PTWs) and working together to establish a consortium named Connected Motorcycle Consortium. According to the Memorandum of Understanding (MoU), which was signed by all ACEM manufacturing members in 2014, C-ITS features will be introduced from 2020 onwards (ACEM: European association of motorcycle manufacturers, www.acem.eu). In order to accelerate this process, the three manufacturers will begin their cooperation in the field of C-ITS now.

The new cooperation was announced on October 6th 2015 at the ITS World Congress in Bordeaux (France), the world's largest event for intelligent transport systems and services. The three partners also encouraged other motorcycle manufacturers to join the consortium so as to further increase safety in powered two-wheelers.

"In order to speed up more motorcycle-specific safety developments, we intend to cooperate to promote a successful implementation of C-ITS in motorcycles and scooters," says Mr Tetsuo Suzuki, Operating Officer at Honda Motor Co., Ltd.. Mr Takaaki Kimura, Chief General Manager of Technology Center and Executive Vice President and Representative Director of Yamaha Motor Co.Ltd. adds: "Our companies are already active members of the Car2Car Communication Consortium, in which we work with car and truck makers and other stakeholders on common specifications and standards. We came to realize that the specific requirements of motorcycles are beyond the scope of this consortium, however. The next logical step is to enter into a cooperation dedicated solely to the challenges relating to powered two-wheelers."

"Our aim is to promote a timely and comprehensive use of cooperative ITS systems in powered-two wheelers offering the potential to improve safety. We

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therefore encourage other companies to join us,” explains Prof. Dr. Karl Viktor Schaller, Executive Vice President Development BMW Motorrad.

The European Motorcycle Manufacturer Association welcomes the initiative

Antonio Perlot, ACEM Secretary General, stated: “This initiative is fully in line with the ACEM road safety strategy and shows the willingness of the motorcycle industry to increase safety for riders based on very concrete and practical developments.”

ITS technologies will contribute to motorcycle safety

If well considered and properly deployed, ITS technologies offer the potential to further increase safety, security and efficiency in all transport systems, in particular for motorcycles.

Intelligent Transport Systems (ITS) require the integration of information and communications technology including transport infrastructure, vehicles and users. Basic applications currently exist in GPS navigation systems, where real-time traffic information is provided such as rerouting advice based on traffic jams ahead. For road transport in particular, interoperable networked wireless communication between vehicles can enable road users to make coordinated and informed decisions about their route as well as allowing safer manoeuvring in busy urban environments.

ITS technologies are expected to generate particular safety benefits in regard to powered two-wheelers (PTWs), not least by offering a level of electronic communication which can be shared between riders and drivers of other road vehicles.

The three companies have already gained experience of connected vehicle technology in several European field tests. Together with car makers and major suppliers, BMW Motorrad participated in sim^{TD} (www.simtd.de), a large scale field test carried out on connected vehicles in the greater Frankfurt area in



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Germany. Honda and Yamaha participated in DRIVE C2X (www.drive-c2x.eu), a Europe-wide ITS field test project.

In view of the challenges experienced in these real world tests, the three manufacturers are now joining forces to evaluate the principles of cooperative intelligent transportation systems (C-ITS) to enhance motorcycle safety.

Motorcycle ITS systems will be different from those for cars

ITS systems designed for cars cannot simply be transferred to motorcycles. Due to the limited space available, electronic systems have to be smaller and be resilient to water, dust and vibration.

Since motorcycles exhibit different driving dynamics, software development and algorithms need to consider special requirements.

You might receive this press release from the three partners at the same time.

Hi-Resolution photos and further language versions will be available from

BMW at: www.press.bmwgroup.com

Honda at: <http://hondanews.eu/>

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The 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 30 production and assembly facilities in 14 countries and has a global sales network in more than 140 countries.

In 2014, the BMW Group sold approximately 2.118 million cars and 123,000 motorcycles worldwide. The profit before tax for the financial year 2013 was € 7.91 billion on revenues amounting to approximately € 76.06 billion. As of 31 December 2013, the BMW Group had a workforce of 110,351 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.

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