

## CMC discuss the future of connected motorcycling at ITS World Congress

Experts from CMC and the motorcycle industry, the European Commission, the U.S. Department of Transportation and other organisations met at the ITS World Congress in Montreal, Canada, to discuss the future of intelligent transport systems and motorcycling. The discussions took place during the 'Motorcycle talk ITS' roundtable moderated by Antonio Perlot, Secretary General of the European Association of Motorcycle Manufacturers (ACEM), being member of CMC. The participants examined some of the most important initiatives in the field of connected vehicles as well as the challenges and opportunities offered by cooperative ITS.



*Arne Purschwitz from BMW Motorrad explained how to define motorcycle use cases*

Arne Purschwitz, Chairman of CMC working group Unification & Interoperability from BMW Motorrad responsible for active safety explained the challenges to define motorcycle use cases, since the requirements of motorcycles often differ significantly from that of cars. "Motorcycles have different vehicle

dynamics, are much narrower, and are leaning into curves. This results in new definitions regarding triggering conditions. We have to define those together in CMC."

Commenting on the future of technology, Hennes Fischer, Chairman of CMC communication activities and Senior Advisor to Yamaha Motor Europe said: "Vehicle-to-vehicle communication systems will have a considerable effect on motorcycle safety. Technologies such as 'motorcycle approach indication and warning' will enhance the digital conspicuity of motorcyclists and reduce the probability of accidents, such as those that happen at intersections because of car drivers overlooking motorcyclists".

In CMC working group Feasibility & Prototyping, led by Honda Motor Japan, those use cases will be tested and verified.

Other panellists touched upon several aspects of connected motorcycle:

Stephanie Leonard, Policy Officer responsible for intelligent transport systems at the European Commission said: "As we expressed in our recent GEAR2030 report, the European Commission sees connectivity and increased automation of transport as major trends that are shaping the future of European mobility. We believe that the automotive industry as a whole must embrace the upcoming revolution of digital, automated and connected driving".

John Lenkeit, Technical Director at Dynamic Research, a company in the United States specialising in vehicle dynamics and accidentology, stressed that “ADAS for cars should be able to detect all vulnerable road users including motorcycle riders”. As a recent study released by Dynamic Research points out: “If ADAS systems are unable to correctly identify motorcycles, a possible consequence of broad ADAS implementation may be an increase in car-motorcycle accidents even as car accidents decrease”.

For his part, Robert Kreeb, Chief of the intelligent technologies research division at the U.S. Department of Transportation, said that: “Connectivity and increased automation hold the promise of addressing many of the major challenges facing today’s transport system, such as user safety, energy efficiency, air quality, traffic congestion, and to enhance the drivers’ comfort and convenience.”

Matthias Mörbe, Vice-president for two-wheeler engineering solutions at Bosch, discussed whether motorcycles can be fitted with advanced driver assistance systems (ADAS) developed for cars. In this respect, he said that “powered-two wheelers require a dedicated approach and specific engineering solutions. Intelligent transport system applications designed specifically for cars cannot be directly transferred to motorcycles”.

Huei-Ru Tseng, Deputy Technical Manager of the Taiwan Industrial Technology Research Institute, said: “C-ITS technologies will give motorcyclists as digital presence, increasing their safety”. She added that ITS systems “must be specifically designed for motorcycle riders”.



*Antonio Perlot moderated the round table discussion with speakers from Europe, US and Taiwan*

In his concluding remarks, Antonio Perlot said: “There is no doubt that connected vehicles will play a major role in increasing transport efficiency, sustainability and mobility in Europe. Cars and motorcycles must be part of this new connected world”.