



Connectivity Will Make Motorcycling Safer

FIM EUROPE CONGRESS

Rome, Italy 30 June 2017

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CMC Steering Committee Member
ACEM ITS WG Chairman
Car2Car Communication Consortium PTW Sub-WG Chairman
EU C-ITS platform Expert



Benefit: Valuable Contribution to Future Mobility

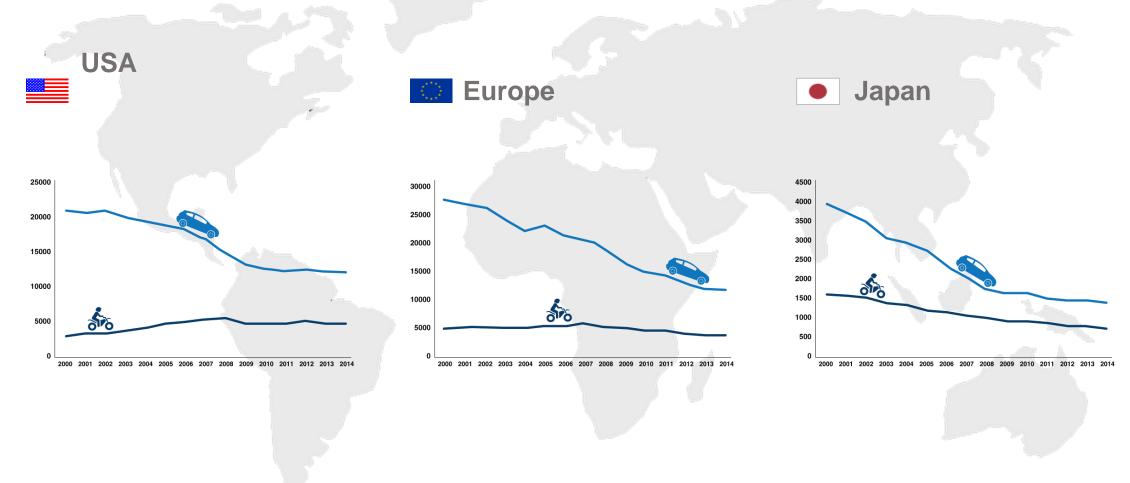
- Motorcycles have great potential -
 - Ideal urban mobility
 - Minimal space requirements
 - Smart combination of leisure and commuting
 - Favourable ecological footprint





Challenge: Motorcycle Safety

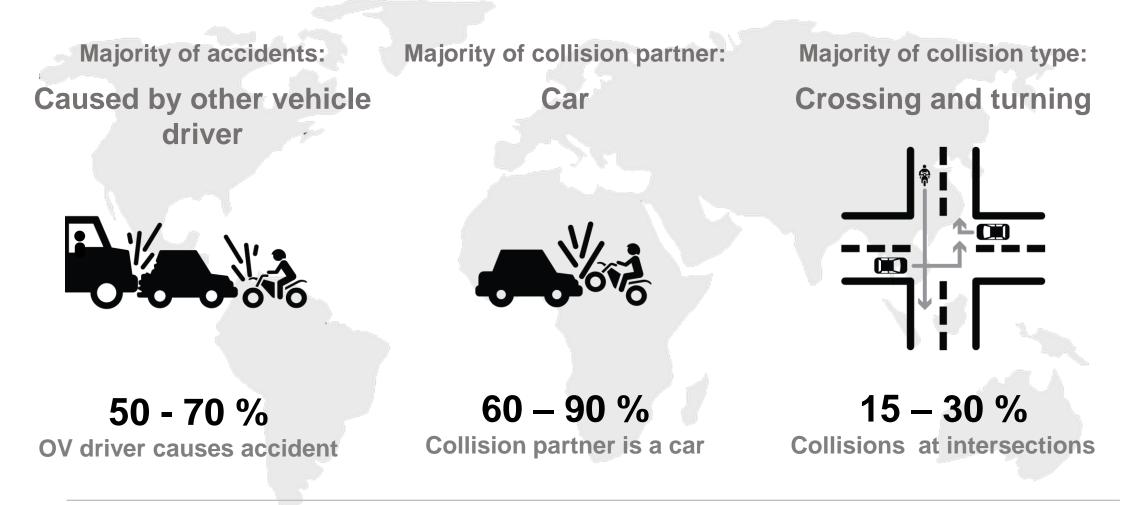
Development of car and motorcycle fatalities



Source: IfZ



Reasons: Perception Failures



Source Data based on country specific studies (USA, Europe, Japan)



Causation and Solution

Human Error



Digital conspicuity



70 - 90% perception failure by car driver

<u>MAI</u> (Motorcycle Approach Indicator) <u>MAW</u> (Motorcycle Approach Warning)



Mission: Motorcycle's Integration in Connected Environment





Milestone: ACEM Memorandum of Understanding

Connectivity technology like C-ITS will become a major part of future mobility

MoU Statement:

"...The ACEM manufacturing members agree to initiate deployment of safety-relevant cooperative ITS on PTWs* in Europe and agree to have **at least one of their models available for sale with a cooperative ITS**, either as standard equipment or as optional equipment, by 2020."

Signed by all ACEM manufacturing members:



*Powered Two Wheeler

Published on 29 September 2014



Milestone: CMC MoU

MoU Statement

"...A cooperative approach to enhance motorcycle safety possibly by joint promotion, research and development of C-ITS on Powered Two Wheelers ("PTW") in Japan, USA and Europe...."



Signed by BMW Motorrad, Honda and Yamaha







*Powered Two Wheeler

Signed June 2015



Creating a common base for Motorcycle ITS

- CMC is a **non-profit**-organisation (and no funding project)
- CMC has a **global focus** \rightarrow international representations, meetings, activities
- Technical expertise is required
- No development of series components/no common development or bundled purchasing
- Final results of the project will be published.



CMC Vision & Objectives

VISION

Enhance Riding safety by jointly promoting, researching and developing C-ITS for motorcycles

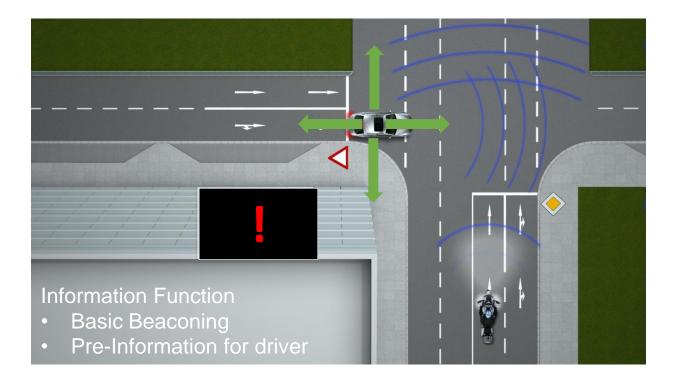
OBJECTIVES

- Integrating Motorcycles as an accepted and recognized partner into global future ITS strategies
- **Joining** our forces to create a common approach on ITS for motorcycles
- Achieving a successful implementation and deployment of motorcycle ITS functions



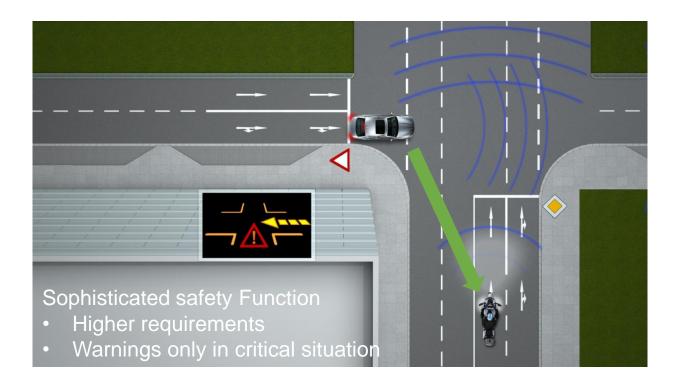


Day 1.5 – Information with Basic Function & Simple requirements



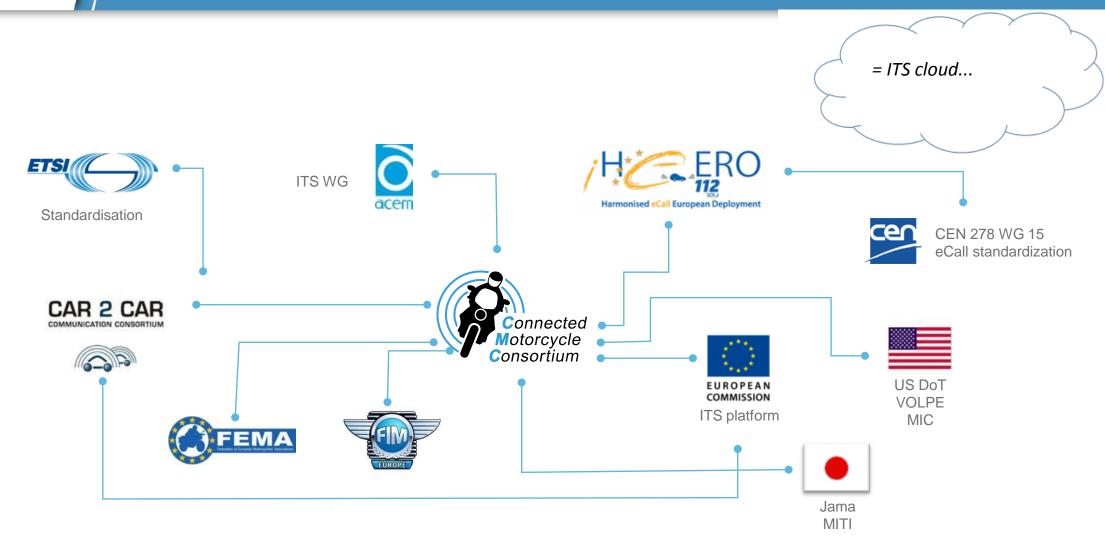


Day 2 – Warning in critical situations & Higher requirements



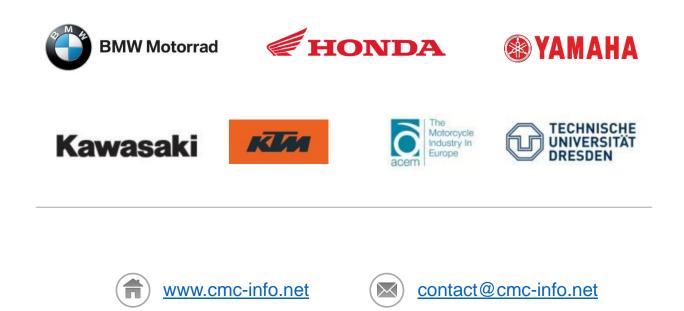


ITS – many stakeholders need to act together





Thank you for your attention



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