



# **Connectivity Will Make Motorcycling Safer**

### FIM EUROPE CONGRESS

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#### Hennes Fischer, YAMAHA MOTOR EUROPE N.V., The Netherlands

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**

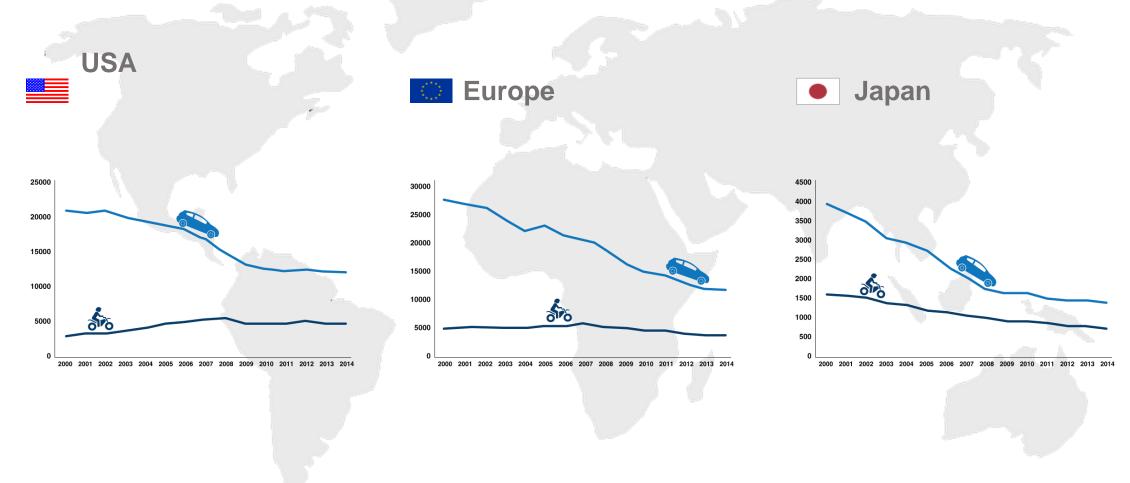
- Motorcycles have great potential -
  - Ideal urban mobility
  - Minimal space requirements
  - Smart combination of leisure and commuting
  - Favourable ecological footprint





# **Challenge: Motorcycle Safety**

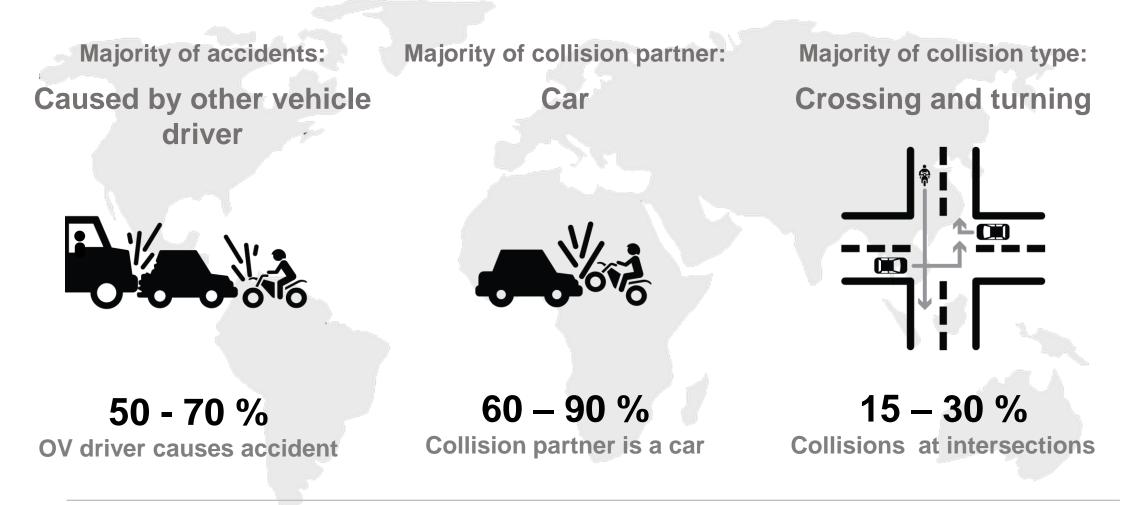
**Development of car and motorcycle fatalities** 



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

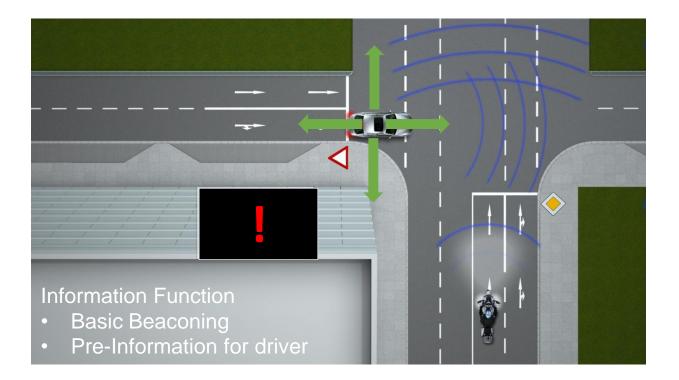
OBJECTIVES

- 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



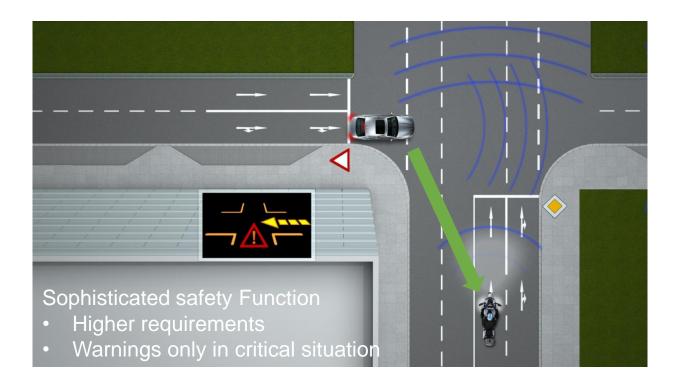


### Day 1.5 – Information with Basic Function & Simple requirements



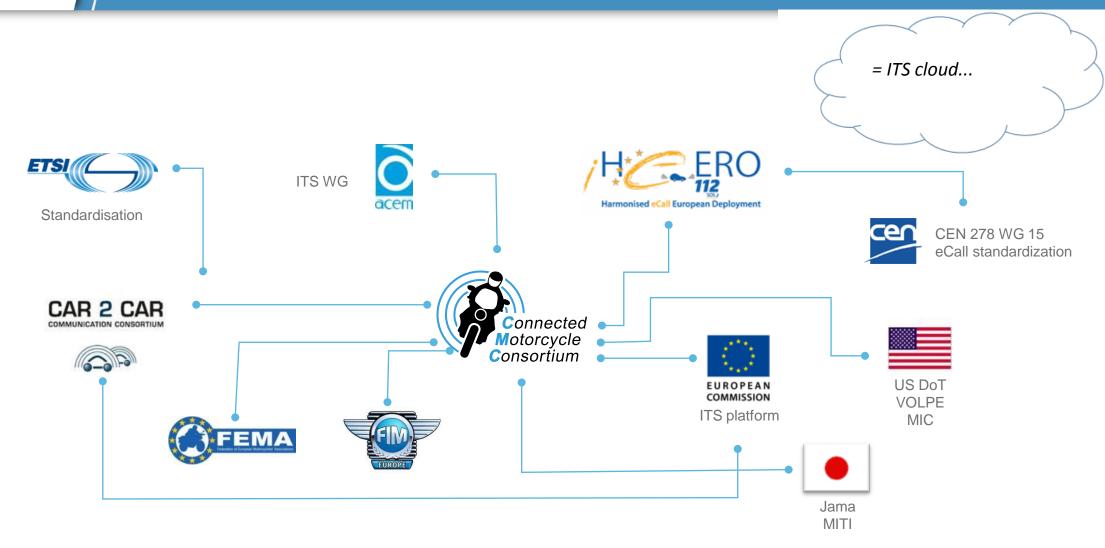


#### Day 2 – Warning in critical situations & Higher requirements



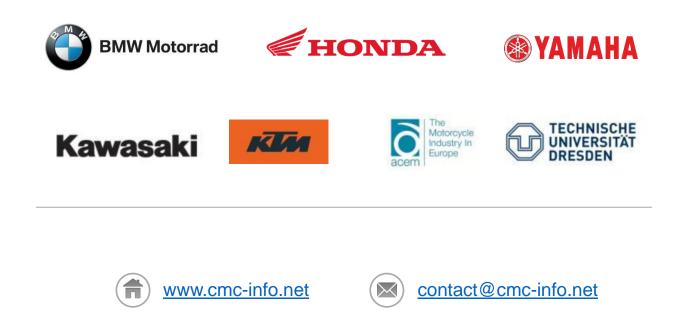


### **ITS** – many stakeholders need to act together





### Thank you for your attention



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