## INTRODUCTION TO BOSCH TWO WHEELER & POWERSPORTS ORGANISATION



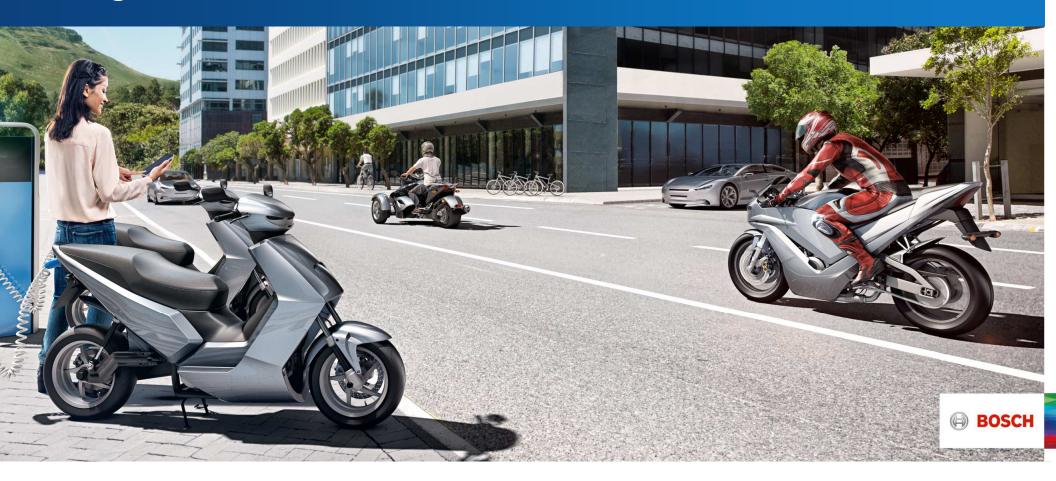
# ETSI STF 565 VULNERABLE ROAD USERS (VRUS) INPUT COLLECTION MEETING

ETSI – SOPHIA –ANTIPOLIS MARCH 6<sup>TH</sup> 2019



## **Two-Wheeler & Powersports**

### Riding innovation



#### Two-Wheeler & Powersports organization

...offering a global footprint and a single contact to customers. Our headquarter is located in Japan...





#### Global Two-Wheeler & Powersports development organization Development hubs located close to key markets



#### Farmington, AMERICA

**Powersports** 

**Powertrain** (High-end)



Germany, EUROPE

Connectivity

Electrification





Suzhou, CHINA

Electrification



#### Yokohama, JAPAN

- Cross-business unit system engineering
- Advanced development

**Assistance** 



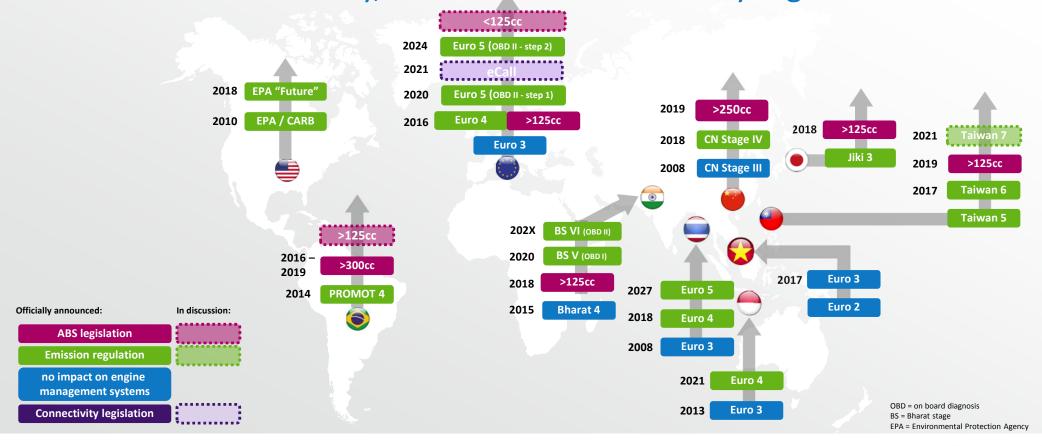
Bangalore, INDIA

**Powertrain** (1 cylinder)



#### Global standards for two-wheeler

Global situation on safety, emission and connectivity regulations





#### Global standards for two-wheeler

#### Contribution to standardization processes – M.Moerbe

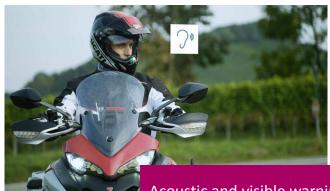
- DIN
  - NA 052-00-71-15 GAK "Gemeinschaftsarbeitskreis NAAutomobil/DKE, e-Call"
    - Leader of GAK
  - NA 052-00-71-17 GAK "Urbane ITS"
    - Expert
- CEN
  - TC 278 WG15
  - TC 278 WG17
- ISO
  - TC 204 WG19
- Bosch
  - GA133 Koordinator for 2WP standardization

#### **B2X** connectivity

#### Technical overview

- ► Bike-to-vehicle (B2V)
- ► Bike-to-infrastructure (B2I)
- ► Bike-to-pedestrian (B2P)





Acoustic and visible warning messages are generated based on critical situations.





#### **B2X** connectivity

#### Some questions

- Is a motorcycle rider standing next to his bike a pedestrian?
- Is a motorcycle or scooter coming from the sidewalk a bicycle?
- Is a pedestrian jumping into a car still a pedestrian?
- .....
  - We are looking into the grey zones to find the right solutions

# THANK YOU

