

Connected Autonomous Vehicles (CAVs) lab-based testing applications close the gap between simulation, Hardware-in-the-Loop (HIL) tests and proving ground tests. Enabling scenario-based testing procedures for vehicles and sensors, ensuring reliable results and a maximum of reproducibility.

HORIBA's CAV test applications (patents pending) contribute to validation processes during Vehicle-in-the-Loop (VIL) tests and help develop Advanced Driver Assistance Systems (ADAS) and Autonomous Driving.

With a combination of standard test procedures and our CAV testing applications for LIDAR (Light Detection and Ranging), radar and camera as a VIL solution HORIBA provides scenario-based testing with a clean stimulation and correct influences for autonomous vehicle sensors. Thereby improving the efficiency of test cycles by delivering cost-effective, reproducible test results.

### FEATURES

- » Integrated sensor stimulation solution
- » Reliable data correlation between real world and simulation
- » Covering object and event detection according to upcoming regulations i.e. UN regulation on level 3 vehicle automation



# KEY BENEFITS



## COST-EFFECTIVE

- » High reproducibility of tests and resulting data
- » Combining simulations with vehicle stimulations



## FLEXIBLE

- » Suitable for most vehicles and other LIDAR integrated means of transport and products
- » Supports development capabilities
- » Adjustable to testing requirements and onsite conditions



## INTUITIVE

- » Easy-to-use with STARS Enterprise laboratory management system
- » Ready to use “plug & play” solution

## APPLICATIONS

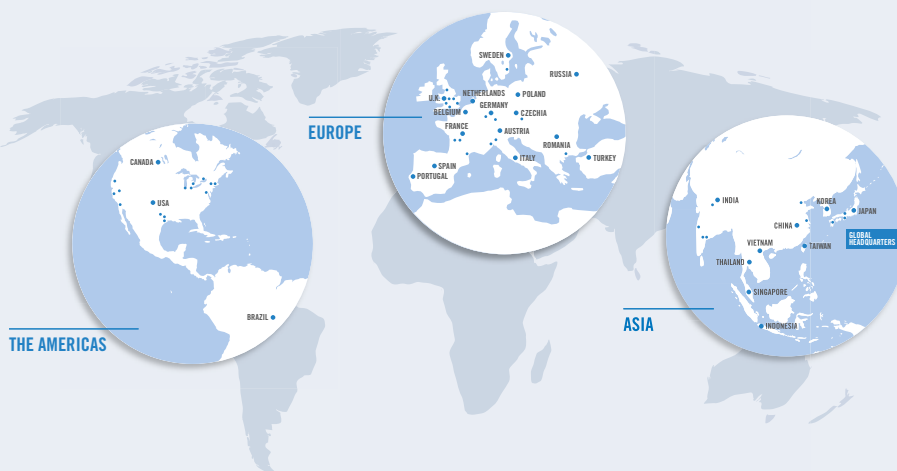
- » VIL test procedures for ADAS and CAV including steering
- » Scenario-based-testing for ADAS and CAV on a chassis dyno i. e. HORIBA Test Center or at customer site
- » Homologation and technical inspection
- » Research and development i. e. LIDAR

A COOPERATION OF:

# HORIBA



## THE HORIBA GLOBAL NETWORK



### ASIA

HORIBA Ltd.  
2 Miyahogashi  
Kisshoin Minami-ku  
Kyoto, Japan  
info@horiba.co.jp

### EUROPE

HORIBA Europe GmbH  
Hans-Mess-Straße 6  
61440 Oberursel  
Germany  
info.he@horiba.com

### THE AMERICAS

HORIBA Instruments Inc.  
5900 Hines Drive  
Ann Arbor, MI 48108  
USA  
sales-ats.us@horiba.com



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