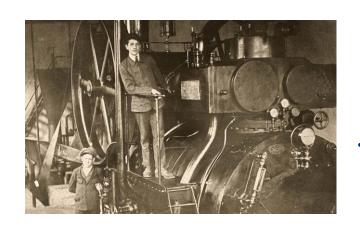




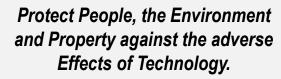
TÜV SÜD, a German-founded 3rd Party Service Provider











Prove of Safety, Quality and Sustainability





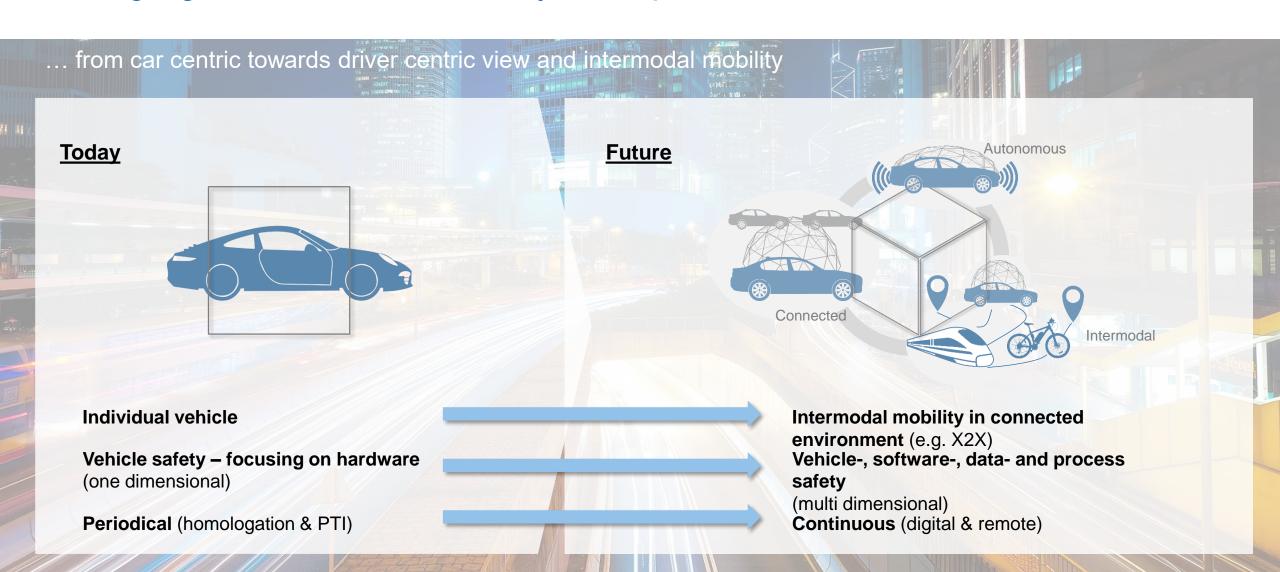








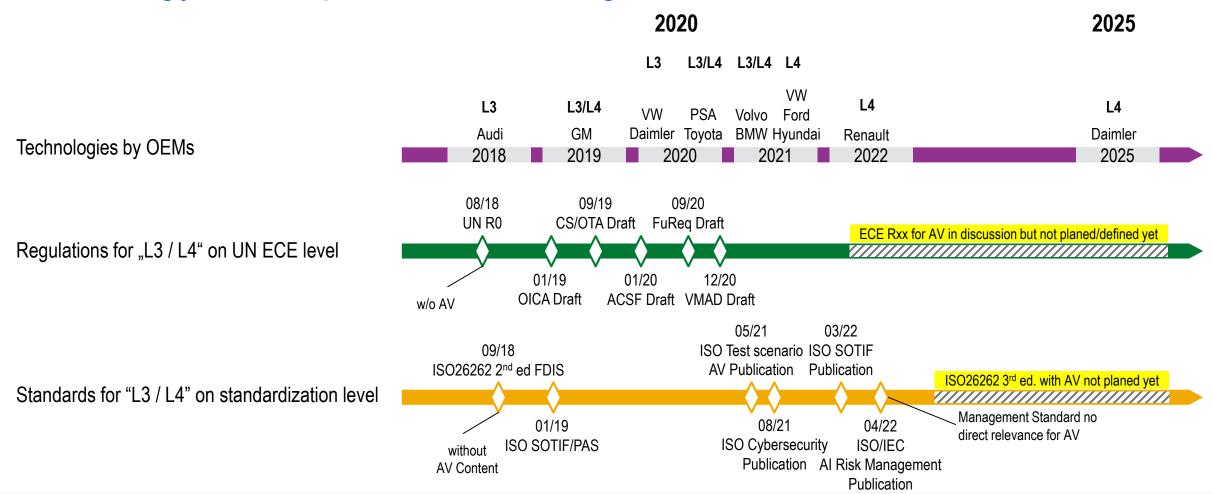
Changing of the future mobility set-up



Service (IAMT)8 24.01.2020

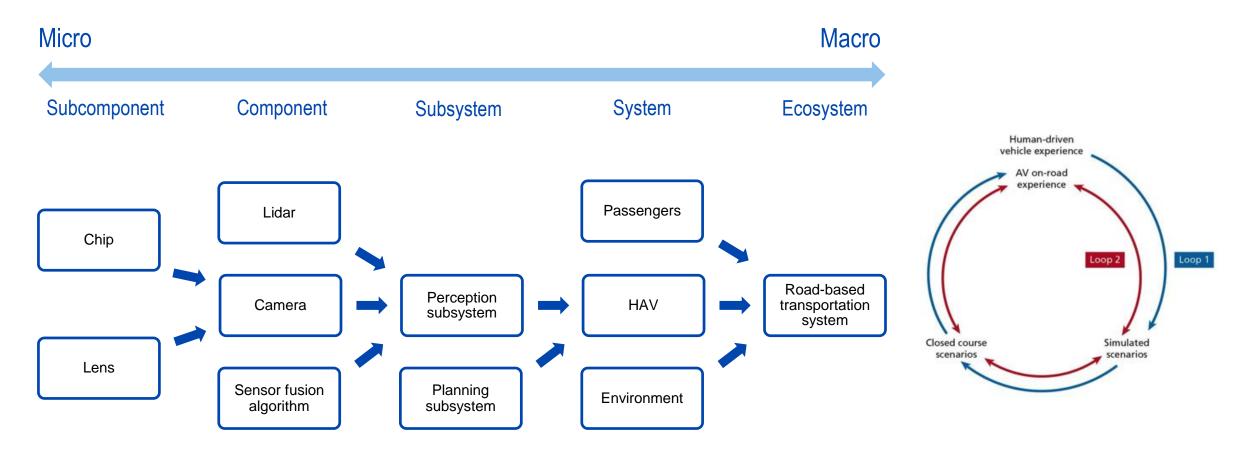


Automated Driving: Technology vs. Regulation Roadmaps Technology develops faster than regulations and standards!





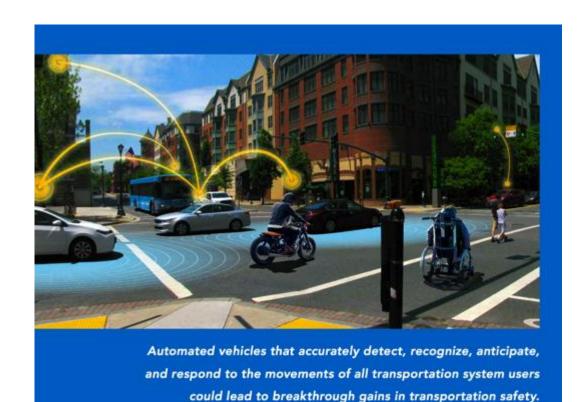
Highly and fully automated vehicles systems and mobility services to the market is both a technological and regulatory challenge

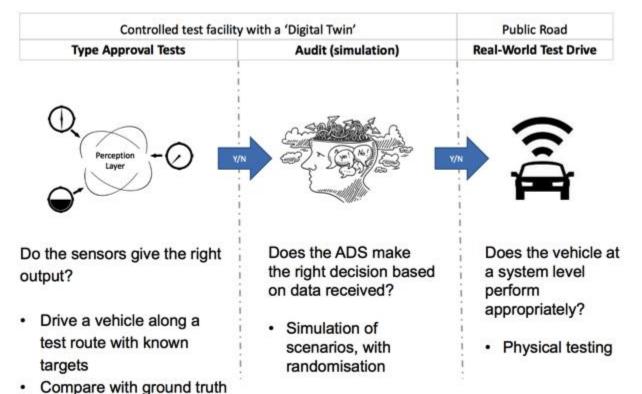


Source: Rand Corporation



Highly and fully automated vehicles systems and mobility services to the market is both a technological and regulatory challenge





Source: USDOT Source: CATAPULT



Problems and challenges of automotive technology

- ➤ Growing complexity of potential risks and testing needs
- > No measuring stick for what tests should be conducted and how they should be conducted
- Lack of global harmonization of standards, regulations and approaches regarding testing
- > Need to match rapidly evolving technologies with a process for creating standards that is equally rapid and flexible
- > Difficulty with comparability and replicability of tests across facilities, geographies and physical/virtual boundaries
- ➤ Issues with test data portability and compatibility
- ➤ Validating simulation fidelity, Optimizing simulation and physical testing

>.....



International Alliance for Mobility Testing and Standardization



Our Vision

- Create a global community comprised of advanced mobility testing service providers and companies, organizations and agencies in need of such services.
- ➤ Learn, develop and share best-practices to ensure consistent, replicable and reliable testing.
- Maintain a global directory of physical, virtual and cyber-physical testbeds and support and promote their audited capabilities.
- Promote the rapid evolution of globally harmonized standards and certifications to ensure reliable deployment of advanced mobility systems and services.

Building a global community for smart mobility testing





WAVE Conference Shanghai, China



April 2019 SAE WCX Detroit, USA



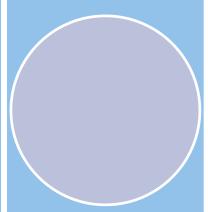
May 2019
Committees
Meeting
Munich, Germany



August 2019
Committees
Meeting
Tianjin, China



October 2019
Committees
Meeting
Munich, Germany



To be continued...

International Alliance for Mobility Testing and Standardization



Our Mission

To develop and grow an international portfolio of advanced mobility testbeds and service providers that meet the highest quality implementation and operational standards.

Executive Committee

Chairman: Alexander Kraus (TÜV SÜD)

Vice Chairman: Prof. Dr. Zhixin Wu

(CATARC)

Secretary: John W. Tintinalli

(SAE)

Consultant: Dr. Joachim G. Taiber

Technical Leadership Committee

Chairman: Dr. Lin Li
(A NICE CITY)

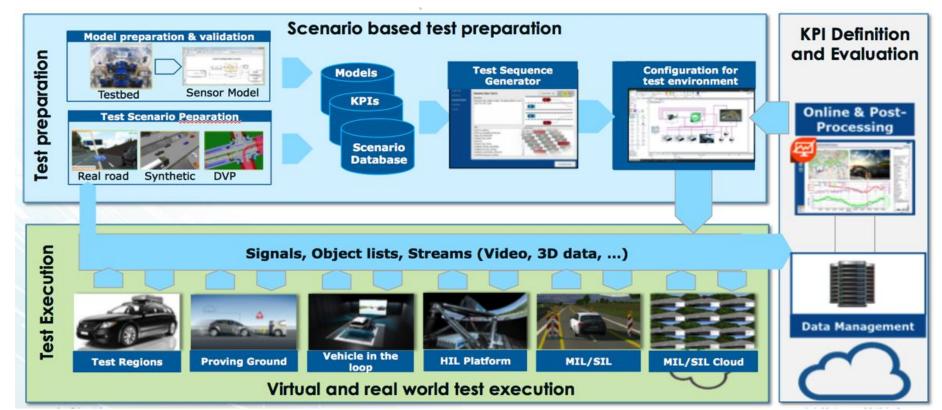
What is the scope of IAMTS?



| Provide an overview about dedicated shared use smart mobility testbed facilities world wide | |
|--|--|
| Provide access to certified high quality data linked to dedicated testbeds and road systems (public or private) which can be utilized for AV testing and certification | |
| Allow testbed operators to get their facilities certified by independent auditors to achieve a minimum quality standard in terms of AV testing capabilities which will benefit testbed users | |
| Identify key knowledge required for a successful AV testing ecosystem | |

What is a smart mobility testbed?





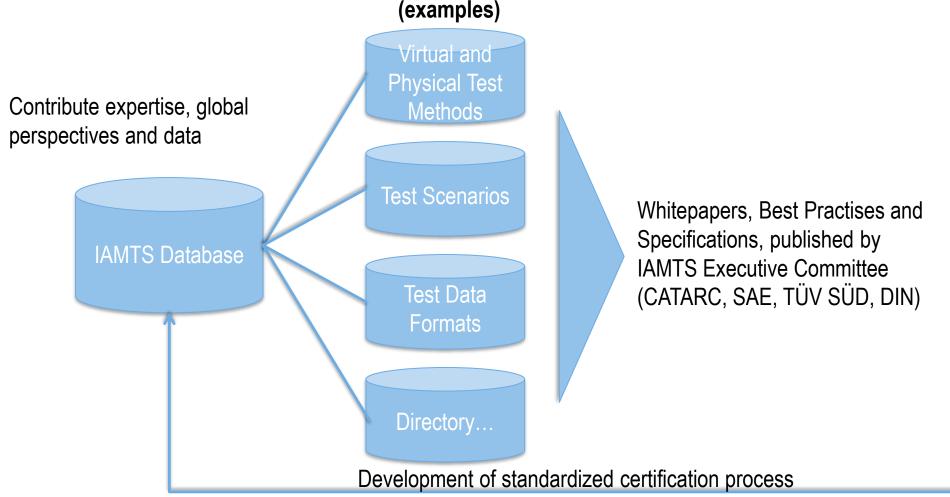
Source: AVL

A smart mobility testbed means the complete cyberphysical mobility test ecosystem, including but not limited to tools, scenarios, roads, communication and energy related infrastructure, simulation models, physical testing methods and test objects.

How does IAMTS contribute to standards development







Handover to standards committees of suitable SDO's*

* Standard Development Organizations

Technical Project Priorities and Working Groups





Working Group Leader

CATARC

- Participants
- TÜV SÜD, A NICE CITY, AVL, Velodyne



Working Group 2: Qualification and Directory of Global CAV Testbeds

Working Group Leader

TÜV SÜD

- Participants
- CATARC, A NICE CITY, Tilke, 3D Mapping, Circuit Booking, Hart Consult, CAR

Working Group 3: Correlation between Physical and Simulation Testing

- Working Group Leader
- AVL
- Participants
- CATARC, A NICE CITY, Tilke, 3D Mapping, SAE, ITIC, Retrospect, TÜV SÜD, Hart Consult

Working Group 1: Global Differences and Harmonized Test Library

TÜV SÜD Auto Service | IAMTS 18-11-27

Contact us



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Europe

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Prof. Dr. Zhixin Wu

Deputy General Manager China Automotive Technology and Research Center (CATARC)

Vice Chairman IAMTS

zhaoshuai@catarc.ac.cn







Let's create safety and trust in tomorrow's world of smart mobility together.

sustainable. integrated. leading.