



PROCEDURES FOR THE DEVELOPMENT OF REGULATIONS AND NEW CERTIFICATION STRATEGIES



- ✓ **Technical Secretariat 2000/14 / EC Directive**
- ✓ **Agricultural and Forestry Machinery Certification**
- ✓ **Ergonomics, Safety and Training**
- ✓ **Seat homologation and certification**
- ✓ **Homologation tests on emissions from two and four-wheeled vehicles**



STONE 2020_2024 – Tech. Secretariat for the NBs under 2000/14/EC

Technical Secretariat of the group of European Notified Bodies for the Directive 2000/14 / EC on the environmental noise emission of machines and equipment intended for outdoor operation and participation in UNI technical tables "Acoustic and Vibration Commission" for the development of technical standards.

Agricultural and Forestry Machinery Certification

Activities related to standardization and certification for the development or redefinition of procedures, laws and standards. Certification, maintenance over time of the safety requirements of agricultural machinery and periodic review of ENAMA documents and specifications based on the reference technical standards.

Ergonomics, Safety and Training

Sustainability (economic, environmental and social) of systems, products and processes.

Seats homologation and certification

Approval and certification of seats for agricultural machinery, earth-moving machinery and industrial trolleys

Procedures and homologation tests on emissions from two and four-wheeled vehicles

Approval and certification of gaseous and particle emissions from vehicles based on reference standards.

CUNA Commission "Automotive Engines"

Sviluppo della normativa connessa al funzionamento del gruppo motopropulsore dei veicoli stradali e della relativa componentistica.

Agricultural and Forestry Machinery Certification

- Plant for FOPS, ROPS and OPS tests. Test tracks of 1 km in asphalt, concrete, lawn and clay. 10 hectares of experimental fields. Dynamometric vehicle for traction tests. Dynamometric brake for motors up to 300 kW.
- Knowledge and contribution to the development of the reference technical legislation.



Ergonomics, Safety and Training

Analysis of working processes and procedures aimed at identifying effective and sustainable solutions in terms of safety, reliability and ergonomics.



Seats homologation and certification

Normalized ridge track conforming to the ISO 5008 standard

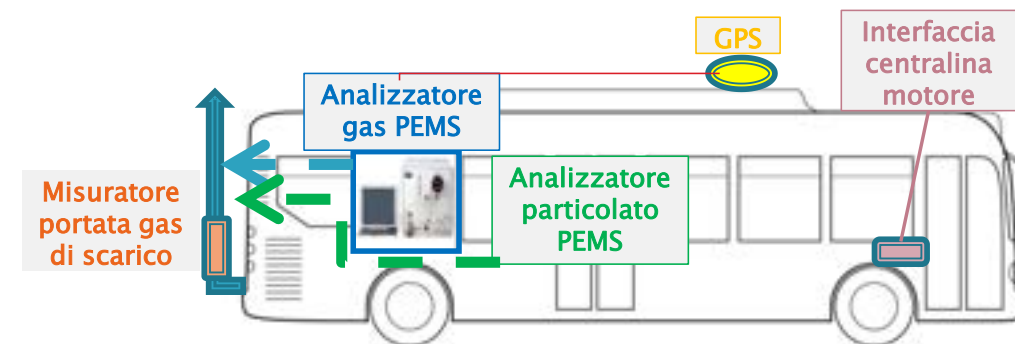
Hydraulic stand



Procedures and homologation tests on emissions from two and four-wheeled vehicles

- Laboratory for the evaluation of emissions and consumption of vehicles in real use on the road (RDE test - Real Driving Emissions) and on a dynamometric roller bench.

Measurement of emissions on the road according to the procedures provided for by EU Regulations 2018/1832 (RDE LD PACK4) e EU 2018/932 (RDE HD).



Emission tests with the vehicle installed on a roller stand according to:

- Worldwide harmonized Light vehicles Test Procedure (WLTP) for light vehicles;
- WMTC (World Motorcycle Test Cycle) cycle for motorcycles, EU Regulation 168/2013.

Tests on Ring

Annual participation in the correlation circuits organized by CUNA for vehicle tests between about 20 Italian laboratories. The test methodologies and procedures used in the correlation circuits are continuously defined and updated by the Working Groups to contribute to the development of the reference technical standards and highlight critical issues.

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- DIT.AD018.080 STONE 2020_2024 – Tech. Secretariat for the NBs under 2000/14/EC

Agricultural and Forestry Machinery Certification

- DIT.AD014.055 Tests according to OECD and similar codes
- DIT.AD014.004 Services and performances with high added value for machines and systems
- DIT.AD014.063 VS ENAMA certification of agricultural machinery

Ergonomics, Safety and Training

- DIT.AD014 Optimization of human-machine interaction in agricultural machinery with particular attention to ergonomic, construction, and safety of use and methods for their effective communication
- SRM #: 500075782 "A study on the development of best practices to improve the manual handling of rear-mounted foldable roll-over protective structures fitted on tractors"
- SRM #: 500103572 "Agricultural and Forestry Tractor Foldable Roll-Over Protective Structures (FROPS): Development of an advanced method for training and information to promote correct and safer use".

Seat homologation and certification

- DIT.AD014.052: Analysis of acoustic and vibrational performance of off-highway and non-highway components and vehicles

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- European Commission - DG for Internal Market, Industry, Entrepreneurship and SMEs - Machinery & Equipment

Agricultural and Forestry Machinery Certification

- Agricultural machinery manufacturers
- ENAMA Servizi Srl



Ergonomics, Safety and Training

- Banking foundations
- Organizations (OECD, Organization for Economic Co-operation and Development)

Seats homologation and certification

- National and international seat manufacturers



Procedure e test omologativi sulle emissioni dei veicoli a due e quattro ruote

- Vehicle and component manufacturers, JRC, Innovhub - Experimental Stations for Industry