

The Emissions Control Industry - Innovating for Cleaner Air

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Green Week 2013
'Innovating for Cleaner Air' Event
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Association for Emissions Control by Catalyst AISBL



Association for Emissions Control by Catalyst (AECC) AISBL

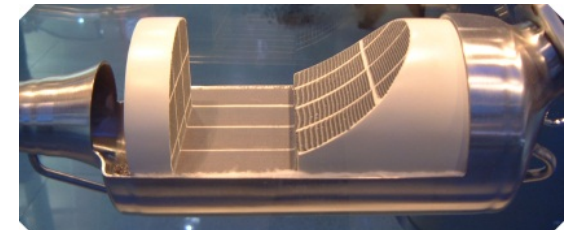
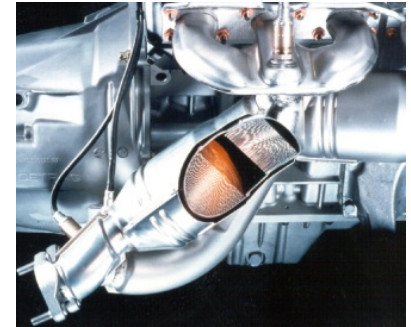
AECC members: European emissions control companies



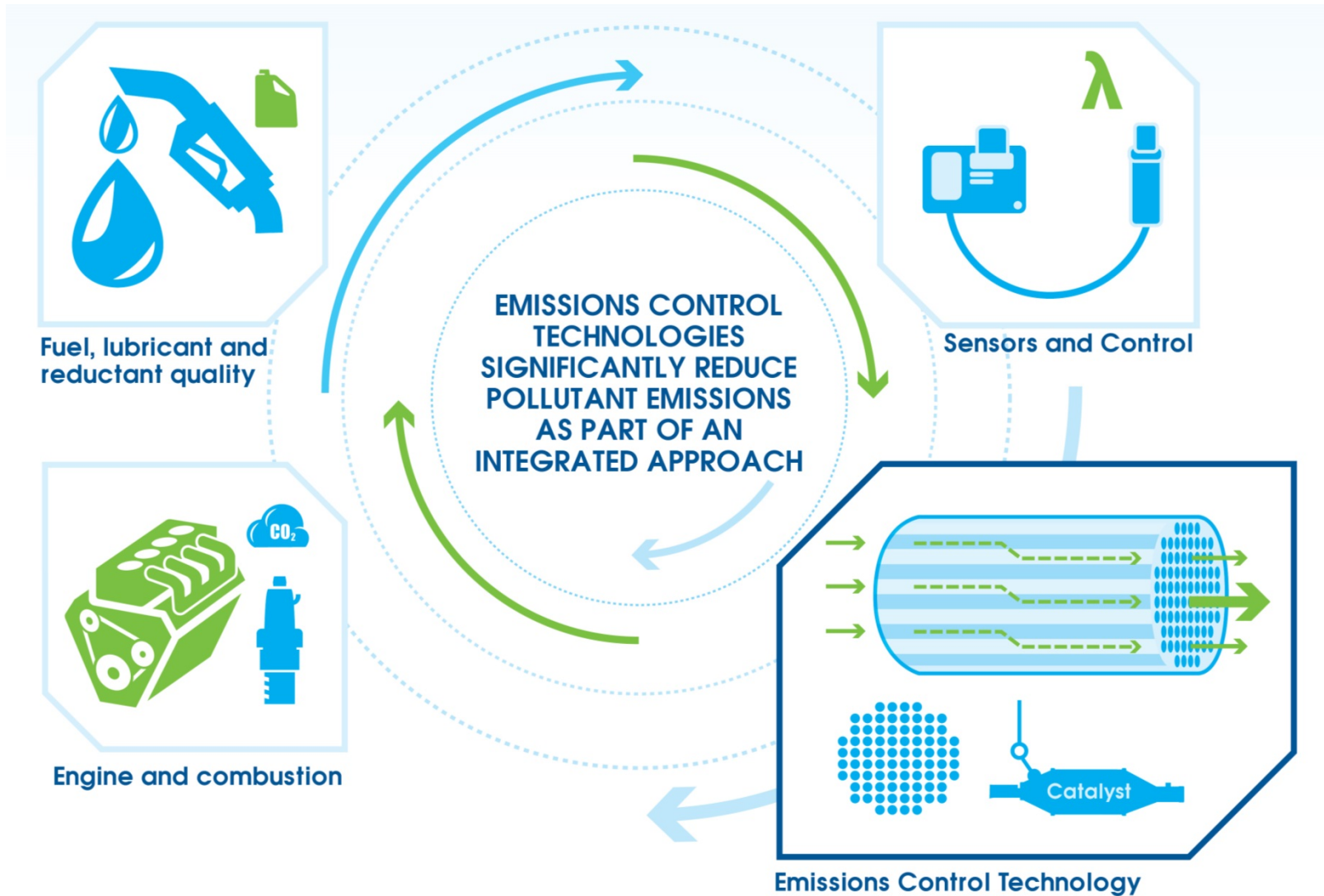
Technology for exhaust emissions control for cars, buses and commercial vehicles, and an increasing number of non-road mobile machinery applications and motorcycles.

The emissions control industry – a history of innovation

- 1974:** Catalysts introduced for cars in the US.
- 1985:** AECC formed.
Introduction of unleaded petrol in Europe.
Automotive catalysts introduced in Europe.
Diesel Particulate Filters introduced in US.
- 1991:** Euro 1 emissions levels (91/441/EEC) require use of catalysts.
ACEA (motor industry association) formed.
- 2000:** Diesel Particulate Filters introduced on cars.
- 2003:** ACEA decision to introduce SCR for Heavy-duty vehicles.
- 2008:** First publication on Gasoline Particulate Filters.
- 2012:** Car CO₂ targets come into force.

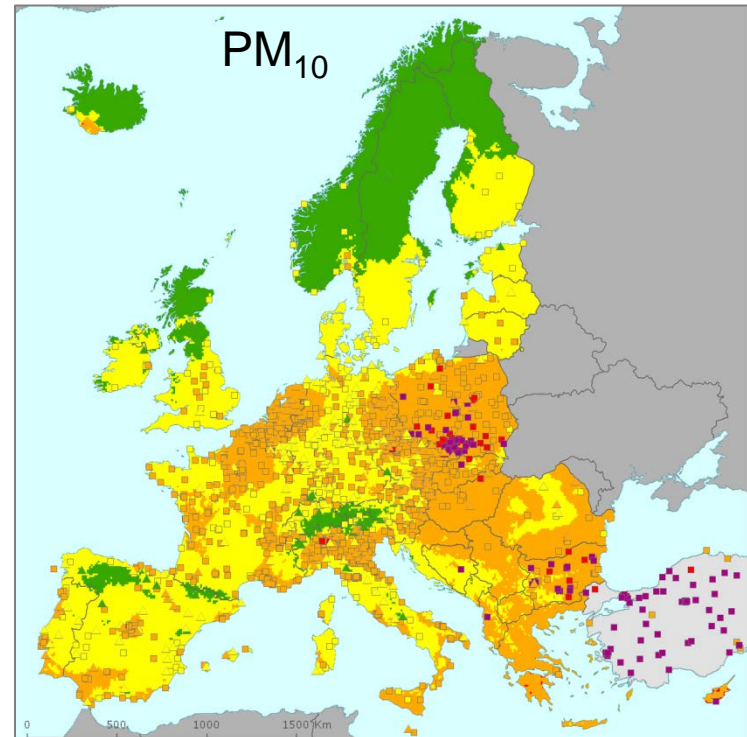


Working in partnership for cleaner air



Drivers for lower emissions and new test methods

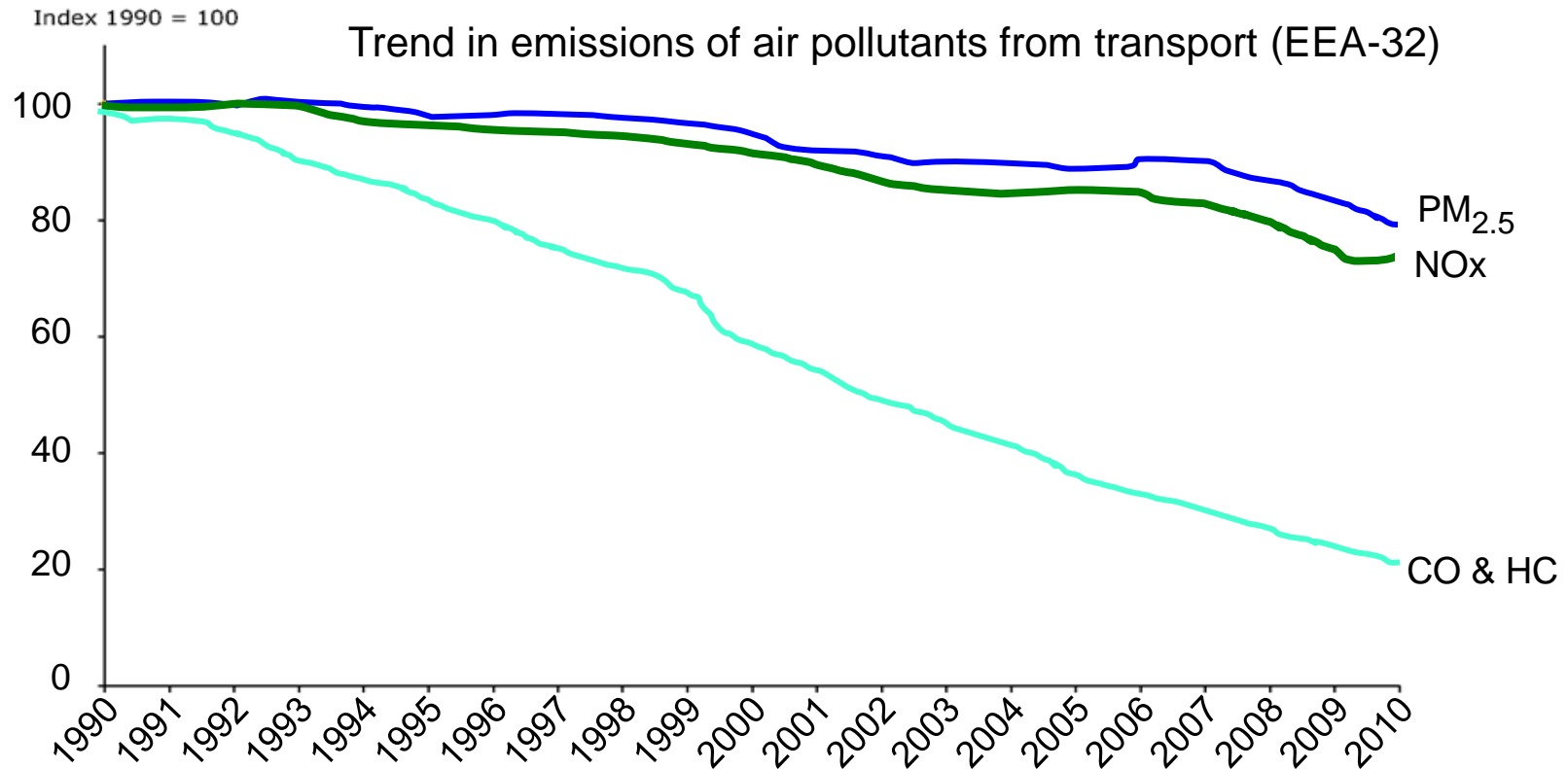
- The growing volume of traffic means that many countries have difficulties meeting air quality targets.



Source: European Environment Agency (2013 – 2010 data)

- The Commission has identified the need to control emissions under real driving conditions – not just on the test procedure.

The success of emissions legislation

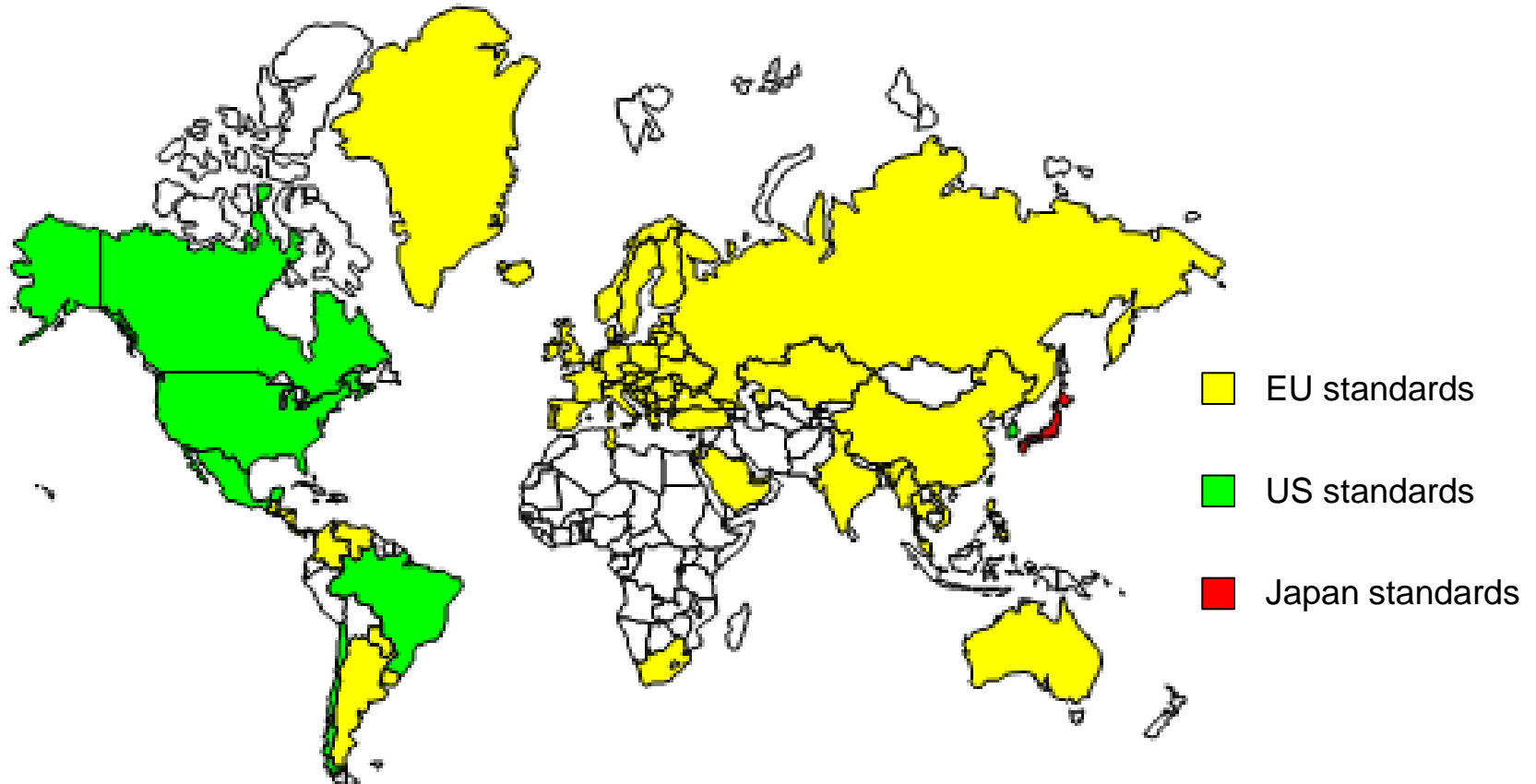


Source: from European Environment Agency (2013)

- Emissions legislation has led to the implementation of Three-Way Catalysts, Diesel Particulate Filters and de-NOx systems, resulting in improvements in air quality despite the growing number of vehicles.

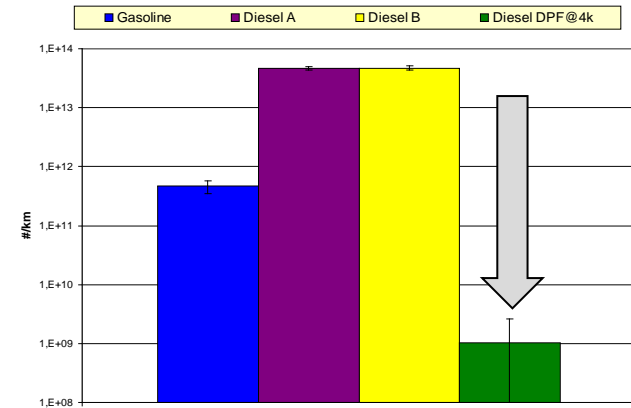
Export of EU legislation

- European emissions legislation is used around the world.
- This gives a competitive advantage to European Industry.



Emissions control today

- The EU particle number limit has ensured the fitment of efficient (>99%) Diesel Particulate Filters.
- Portable Emissions Measurement Systems (PEMS) ensure the real-world emissions performance of heavy-duty vehicles.
- The EU is developing Real-Driving Emissions (RDE) procedures for cars and vans to ensure emissions performance in real use.
- The EU is providing strong input to the World-harmonised Light-duty Test Procedure (WLTP) to give more realistic emissions test results.



Source: AECC test programme



Source: Sensors Inc.

