



The Need for Cleaner Fuels to Enable Greener Technologies and Engaging Stakeholders

**Presentation by David Ward, Director General
FIA Foundation for the Automobile and Society**

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for the Automobile and Society

The FIA Foundation for the Automobile & Society Supporting Safe, Clean and Affordable Mobility

The FIA Foundation was established in 2001 by the Federation Internationale de l'Automobile (the worldwide association of automobile clubs) as an independent registered charity in the UK with the aim to promote road safety, the environment and sustainable mobility.

For road safety we are leading efforts to reduce the world's annual 1.2 million traffic fatalities and are members of the World Bank Global Road Safety Facility and the UN Road Safety Collaboration.

For the environment we support the drive to lower vehicle toxic and carbon emissions, and raise fuel economy. We are members of the Partnership for Clean Fuels and Vehicles, and the Global Alliance for EcoMobility.

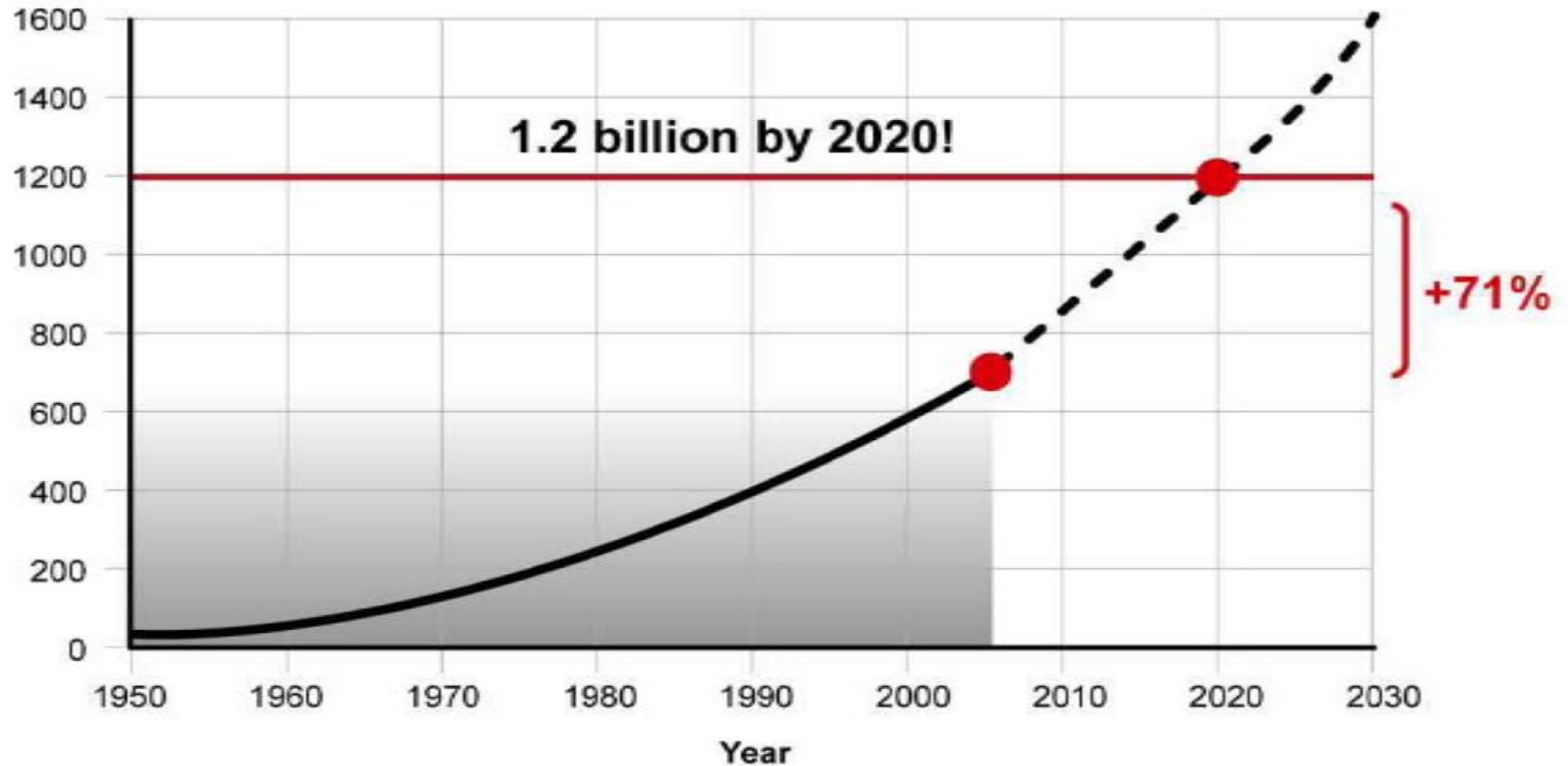


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The Challenge of Greening a Growing Global Vehicle Fleet

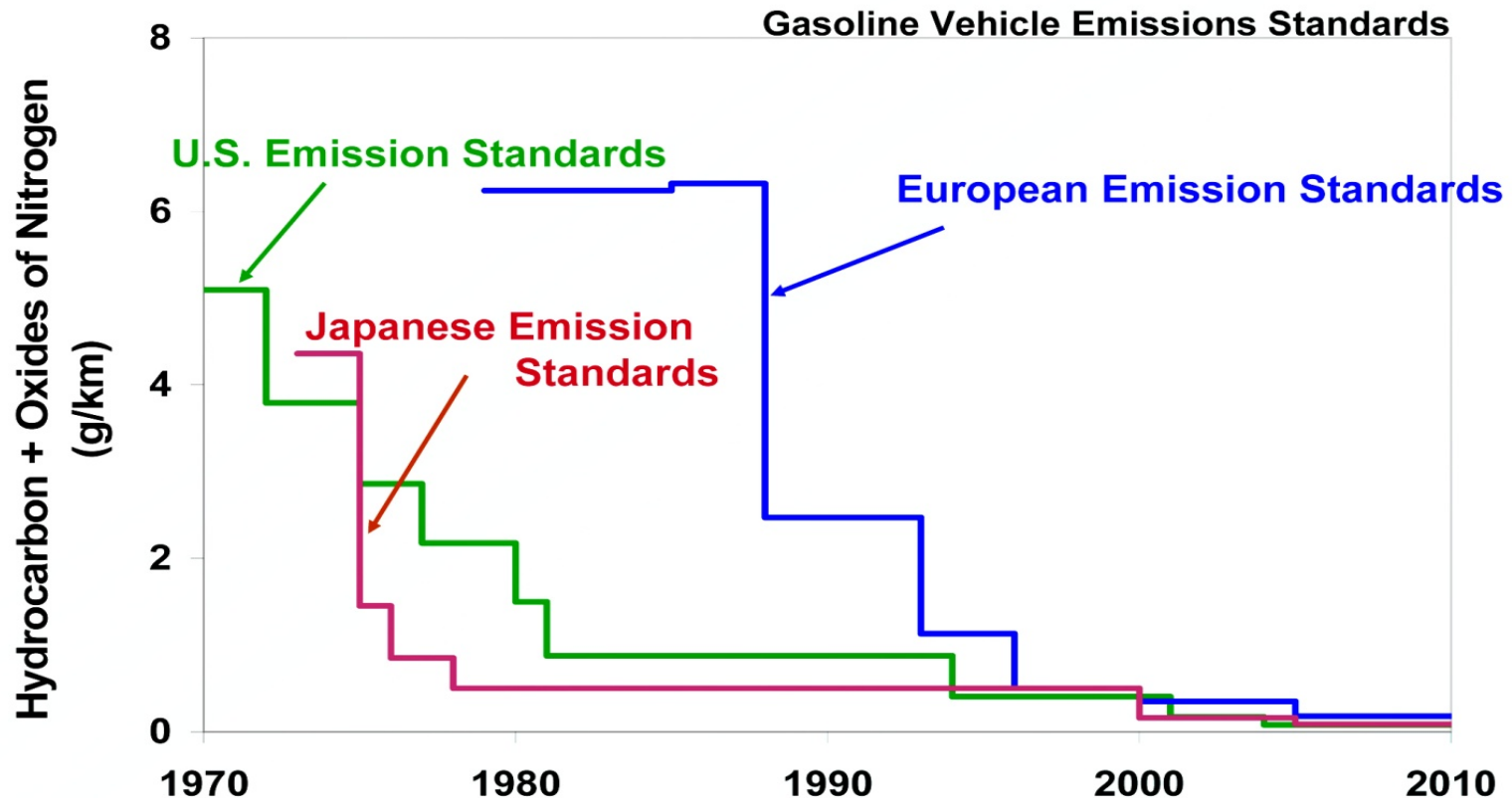


Source: Handbook of automotive industry 1999

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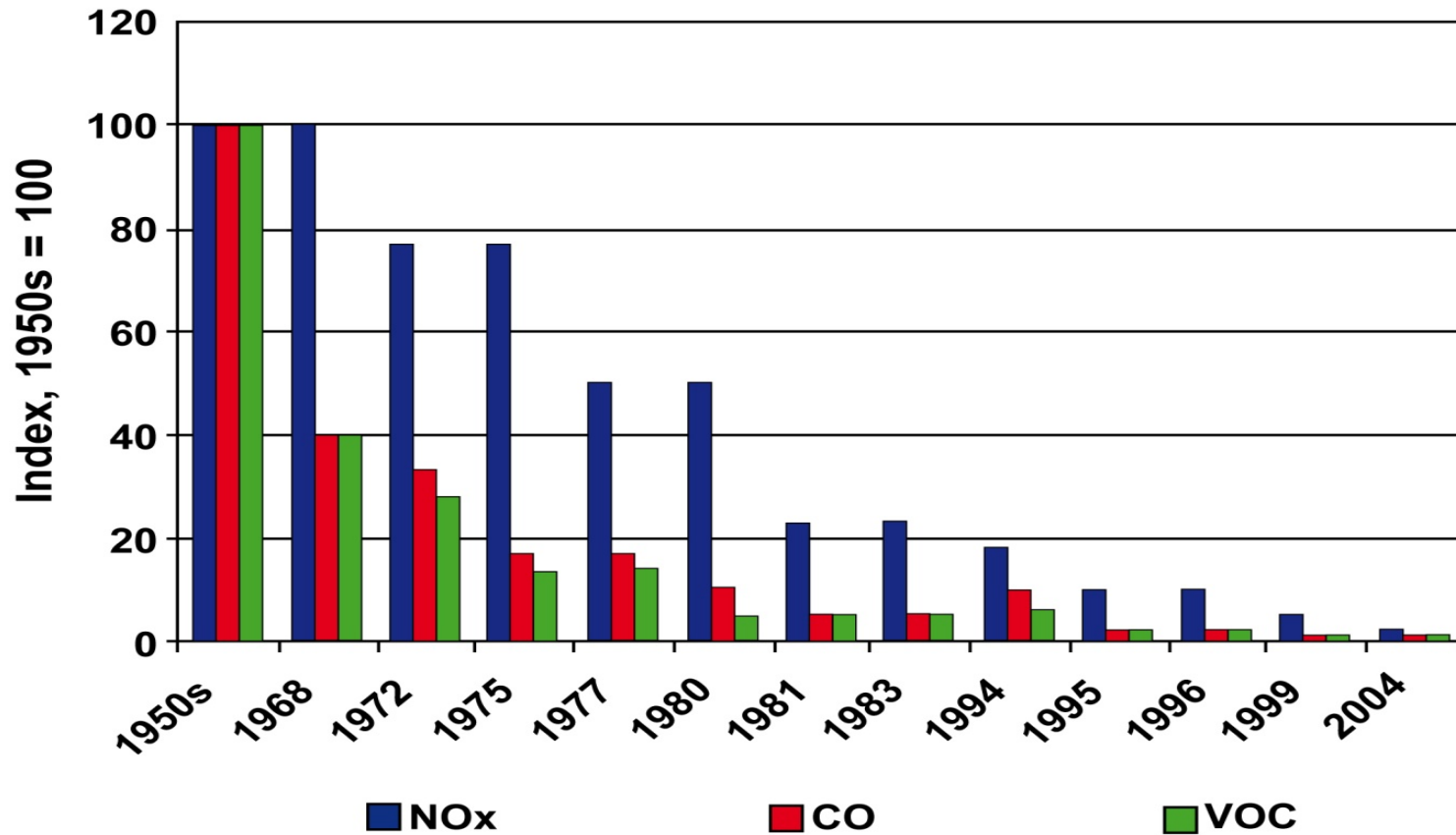
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Vehicle Emission Standards Are Making Cars Greener

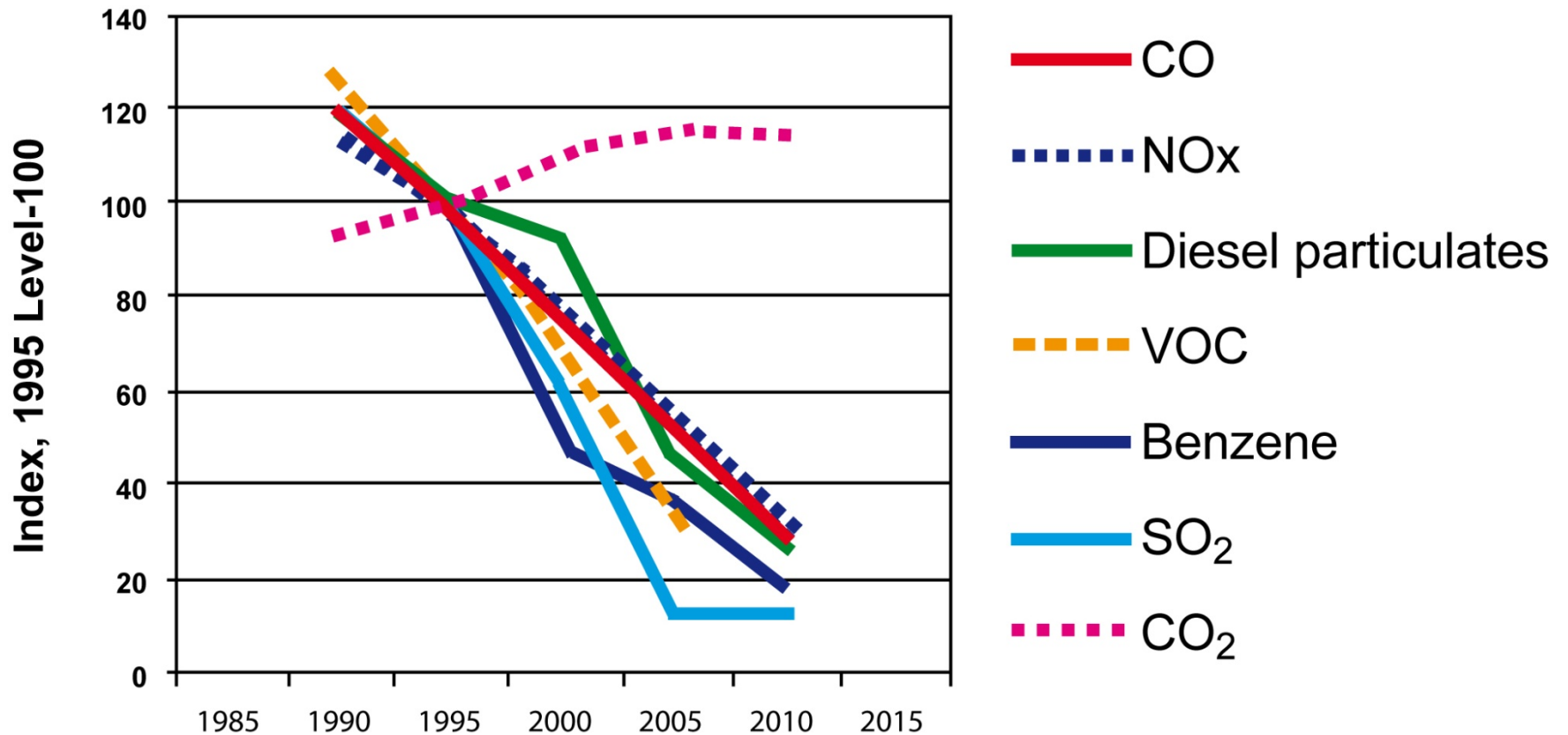


Toxic Emissions are Reducing – US Experience since 1950s

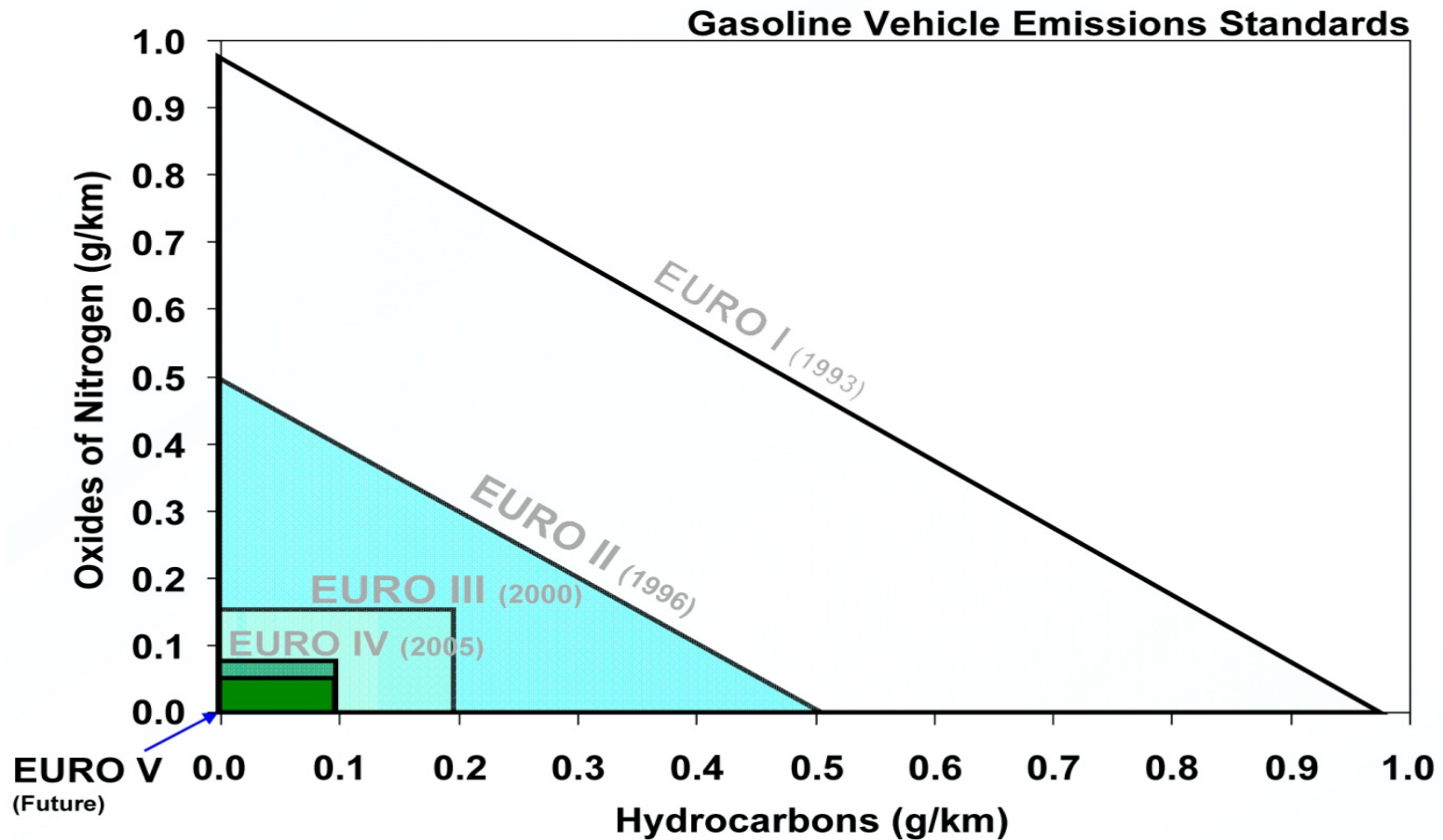
Level of noxious emissions from motor vehicles



The European Union Is Following A Similar Path



EU Vehicle Emissions Standards – Stages I to V



The 'Green Systems' Approach

To reduce vehicle emissions it is important to adopt a 'green systems' approach which takes a holistic view of the production, use and recycling of motor vehicles. For example, to reduce automobile toxic emissions it is not enough to rely only on cleaner engine technologies. It is also vital to ensure that cleaner fuels are used so that the vehicle as a total system can reduce its toxic emissions.

Use of catalyst systems greatly reduces toxic emissions from both petrol and diesel cars. But catalysts require both unleaded and low sulphur fuel. High sulphur content reduces catalyst efficiency and prevents reduction of toxic emissions. In 2001 tests by the FIA and the ADAC showed that low sulphur fuel at 50ppm gave an immediate 13% average reduction in emissions of nitrogen oxides and hydrocarbons. With ultra low sulphur at 10ppm the reduction grew to 20%.



Global fuel sulphur levels of less than 50ppm are vital to make cars greener.

Low Sulphur Fuels and Particulate Matter

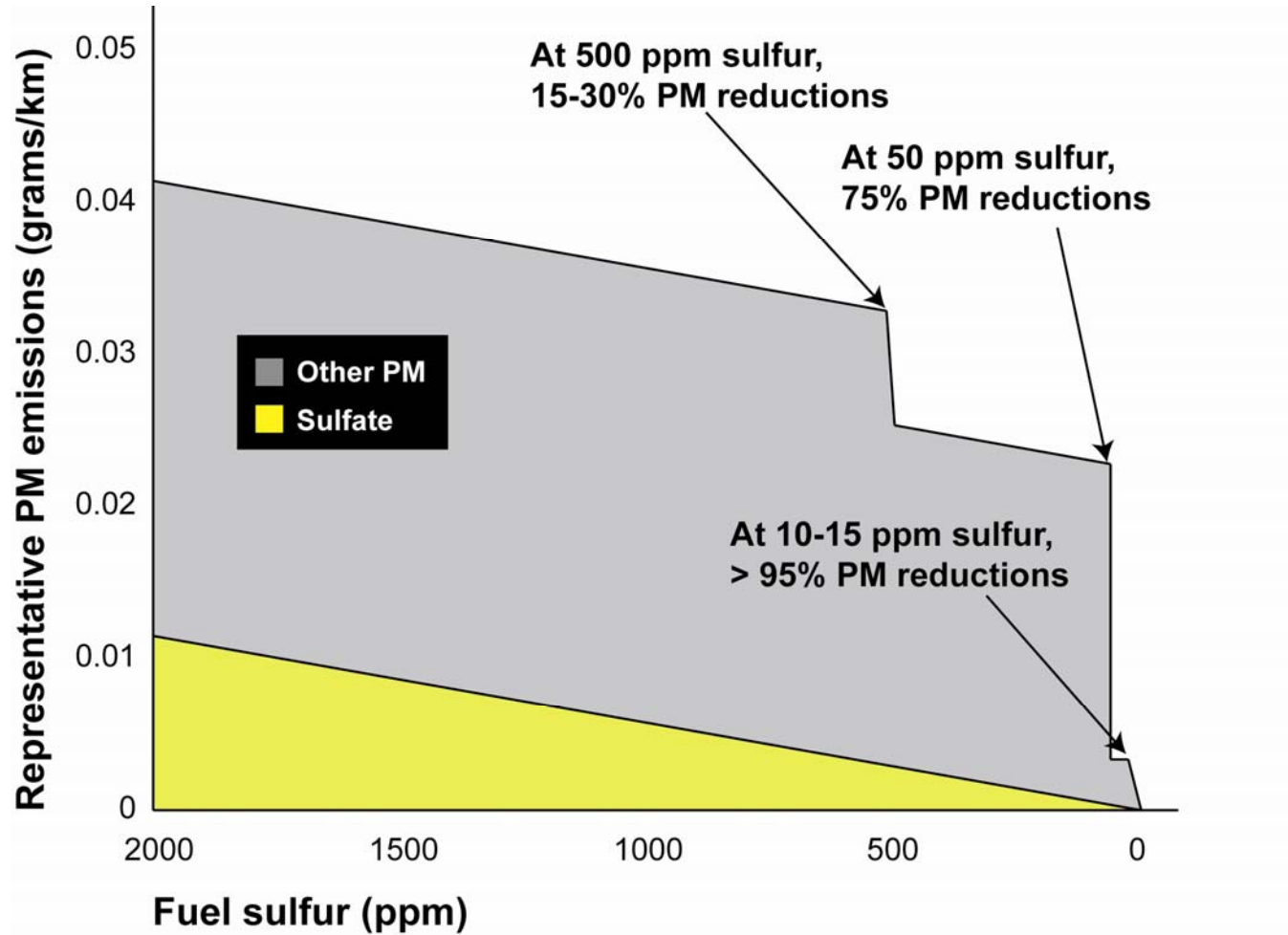
According to the World Health Organisation 800,000 people die prematurely due to urban air pollution. Diesel and petrol powered motor vehicles are a major source of emissions of particulate matter. Low sulphur fuels can immediately reduce PM emissions from existing vehicles in use and will enable even greater reductions from new vehicles with advanced emission control technology.

For diesels especially, the combination of catalyst technologies and particulate traps will greatly reduce levels of PM emissions. But with ultra low sulphur fuels (10 ppm) the improvement can be as great as 95%.

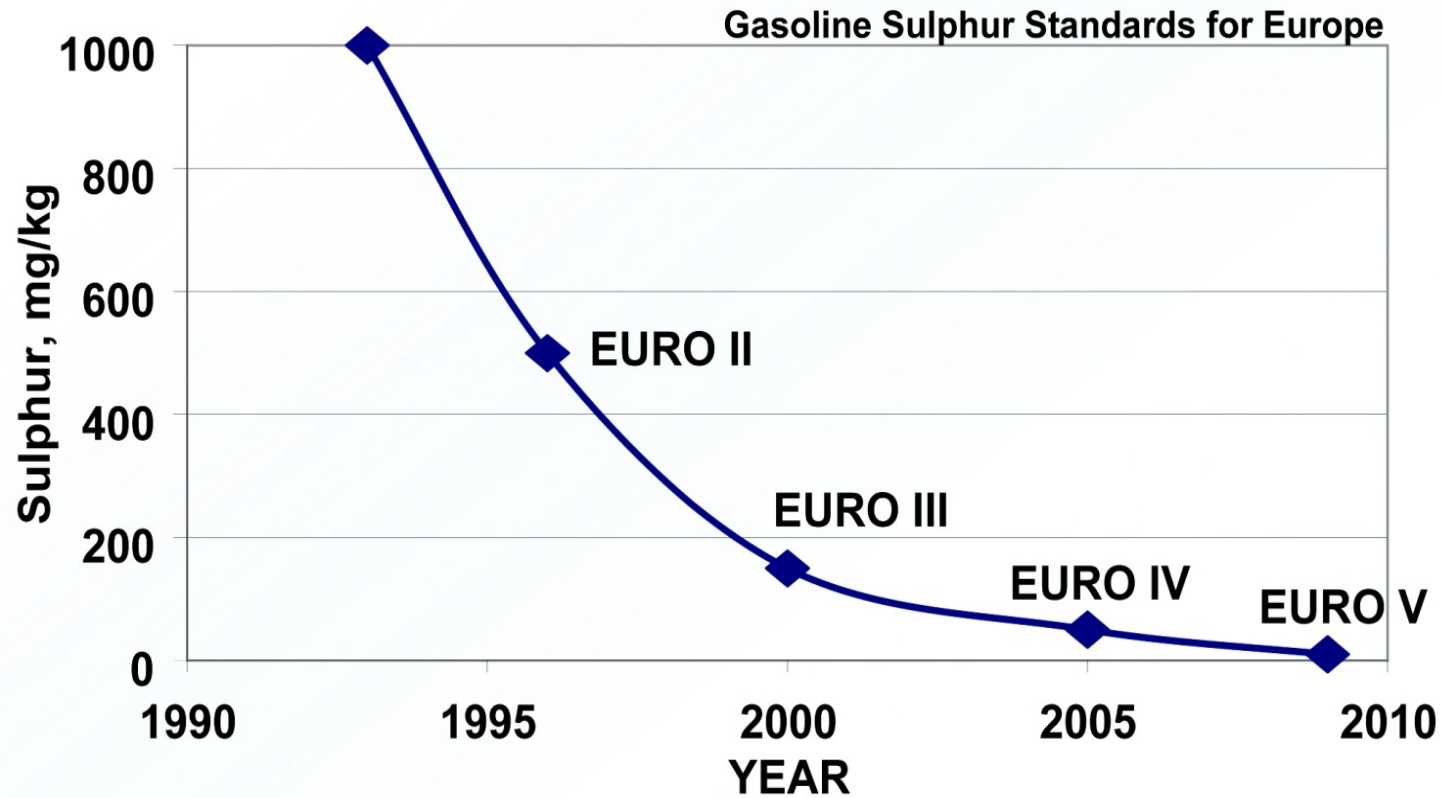


With growing use of diesel engines in world markets prompted by efforts to reduce carbon emissions and raise fuel economy it is essential to progress towards low and ultra low levels of sulphur in fuel.

Linkage Between Fuel Sulphur and Particulate Matter



Driving Down Fuel Sulphur Levels In Europe



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Taking Action for Low Sulphur Fuel – Setting Standards and Engaging with Stakeholders

The FIA Foundation would strongly recommend that the Gulf Cooperation Council consider adopting a goal for a low sulphur fuel target of 50ppm across the region perhaps by 2012. To support this target there is clearly a role for national or regional regulatory standards, but much more can be done especially to promote consumer awareness of the benefits of low and ultra low sulphur fuels.

These include:

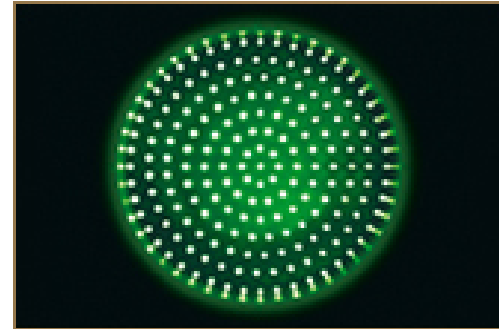
- Information campaigns
- Fuel pump labelling
- Fiscal incentives for low & ultra low sulphur fuels



The combination of these actions can significantly accelerate use of low and ultra low sulphur fuels to ensure 100% usage in advance of regulatory target dates.

Automobile Clubs and the Environment

Automobile clubs affiliated to the FIA last year adopted a comprehensive Declaration on 'Air Quality, Climate Change and Automotive Fuel Economy'. The declaration supports a range of actions to reduce automotive toxic and carbon emissions and improve fuel economy.



It encourages automobile clubs to support:

- Stringent emission standards for both vehicle and fuel technology
- A global benchmark to promote fuel economy
- Ecodriving campaigns
- Information campaigns to raise consumer awareness of 'green mobility' choices
- A 'ten point' greener motoring guide

To promote the Declaration the FIA has launched the Make Cars Green campaign. For more information see: www.makecarsgreen.com

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Summary – Act Now for Low Sulphur Fuels!



The FIA Foundation is proud to support the excellent work of UNEP's PCFV global campaigns to achieve a total ban on unleaded fuel and progress towards worldwide use of low sulphur fuels

We strongly recommend a Gulf Cooperation Council target for low sulphur fuels

We encourage all relevant stakeholders, including automobile clubs, across the Middle East to support consumer awareness of greener motoring issues such as the vital importance of low sulphur fuels to reduce vehicle emissions and improve air quality.

Thank You Very Much...

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