

AIR ALLIANCE

Vehicle eco-labelling for new and old vehicles

Lucy Sadler - Massimo Fedeli
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THE CONTEXT

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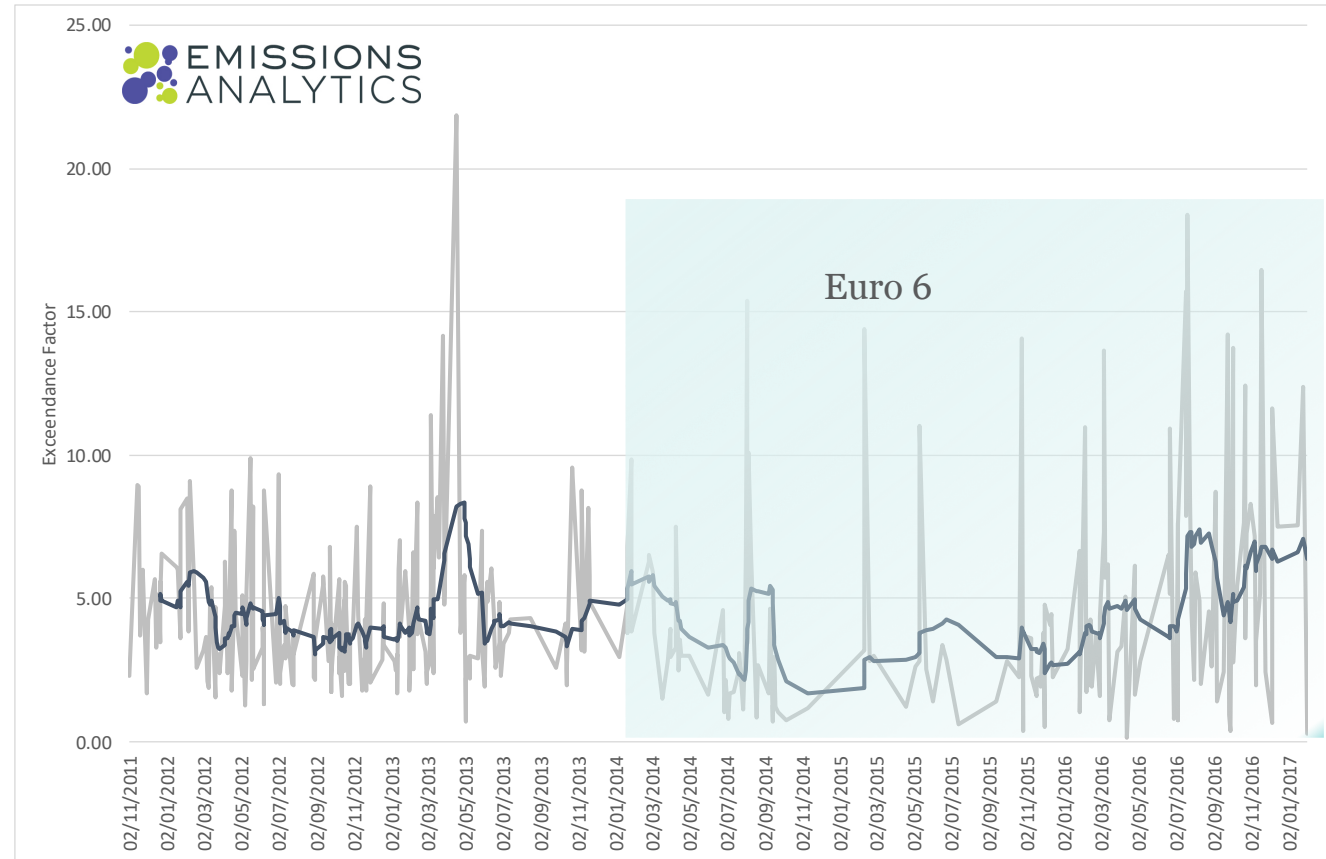
- Air quality is illegally high in many places
- Diesel engines are blamed
- The solution must be delivered fast, whatever the cost
- Confidence in official data is low
- Trust in manufacturers is low especially since #diesel gate
- Electrification, if it happens, cannot solve the problem quickly enough
- Cities are now taking unilateral action
- Consumer confusion is increasing



This is a **market** and **environmental** problem

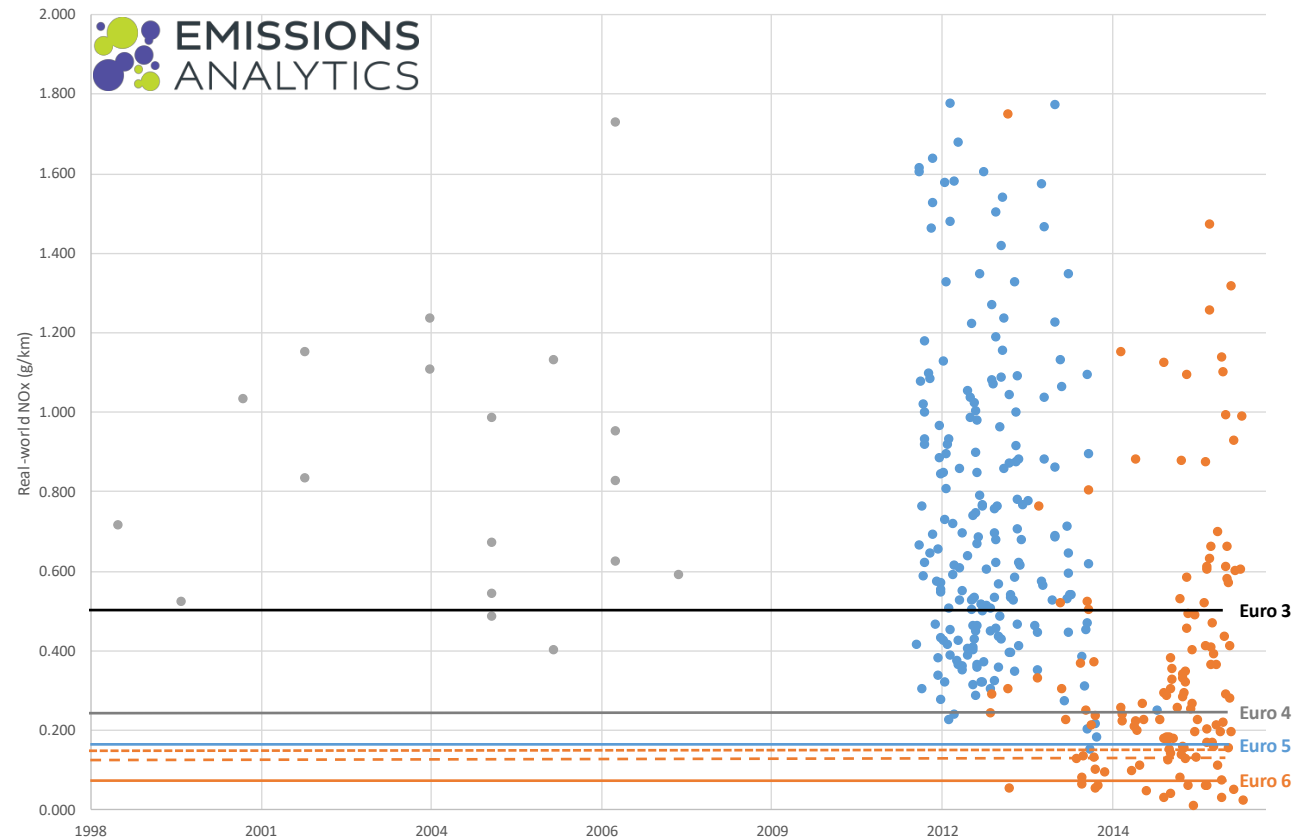
Legacy NOx problem... bad news

- False dawn after introduction of Euro 6
- Average Exceedance Factor rose latterly to ~ 7
- Despite prospect of Real Driving Emissions
- Plus Growing variability
- Use of thermal management and hot re-start strategies?
- Beating first phase of RDE in 2017?



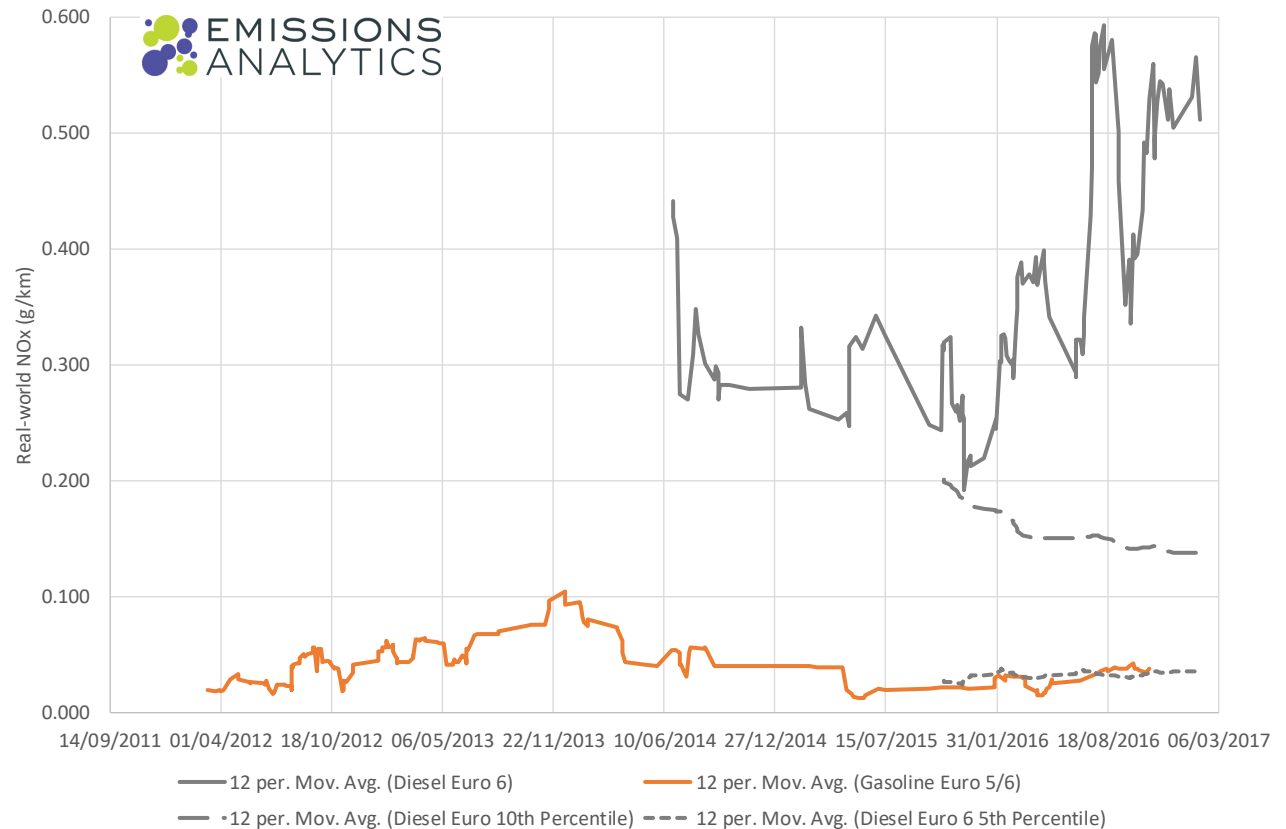
...worse news...

- Dirtiest Euro 6 diesels are 6-7 times worse than cleanest Euro 5
- And are ~3 times worse than cleanest Euro 3/4
- And are about twice as dirty as the average Euro 3/4



But good news... diesels can be clean

- Average Euro 6 diesel 13 times average gasoline car
- But cleanest diesels (5% percentile) are as clean as the average gasoline
- Has been the case for almost 2 years
- Not being able to discriminate within Euro 6 is significant market failure



THE SOLUTION

An Independent Eco-Label Index

- Vehicle rating scheme based on their real-world emissions and fuel economy
- Complement to new Real Driving Emissions regulations
- Discriminates between high and low emitters, even within Euro class – not just pass/fail
- Authoritative Scientific Advisory Committee
- Similar to New Car Assessment Programme
- Ratings are published and into the public domain for free at www.equaindex.com



Robust, independent standard needed to measure and incentivise actions to bring about air quality improvements

Implementation

- Publish ratings on official government and city websites to guide consumer decisions
- Syndicate to media for wider consumption
- Set government fleet procurement requirements – minimum real-world standards
- Use as example to private sector fleets
- Tie incentives or charges to the ratings
- Inform vehicle purchases



London's Cleaner Vehicle Checker and Fleet Health Check programme

Defra (UK environment department) tender programme

AIR ALLIANCE

AIR Alliance - mission



- Allow Independent Road-testing has been launched in September 2017 to promote the **voluntary** adoption of an **independent on-road** vehicle emissions test and **rating system**
- AIR is **open** to organisations and individuals seeking to ensure direct and **immediate action** to **reduce** the harmful effects of **vehicle emissions** on air quality and climate change, in an accessible, transparent and accountable way
- AIR has convened a **Scientific Advisory Committee** of academics across Europe to ensure the **robustness** of the rating system
- AIR has been established by the founder of Emissions Analytics (EA), Nick Molden and the Managing Partner of FairPlay Consulting, Massimo Fedeli. Today's members include the [Bruno Kessler](#) Foundation, [CENEX](#), and the [Energy Saving Trust](#)

AIR Alliance – calls on....



- **Car makers** to adopt voluntarily the same approach to car emissions as they use for car safety
- **City policy makers** to adopt voluntarily independent testing and rating as the basis for informed policy
- **Governments, cities, academics, NGOs,** and other **organisations** committed to improving air quality and reducing greenhouse gas emissions to join the Alliance and help drive the voluntary adoption of the existing framework by automakers and city policy makers globally
- **Vehicle Purchasers, Public, Companies, Individuals** to buy cleaner vehicles

AIR Alliance - action



- AIR's role will be to guarantee that the data and testing remain **completely independent from automakers and regulators** to ensure trusted disclosure and **public scrutiny**
- AIR will make past and future results from independent testing of vehicle **freely available to everyone** so they can make informed choices
- AIR will **provide access to the test methodology** developed by Emissions Analytics **to other parties** to conduct similar tests **to same standards around the world** through a process of European standardisation (CEN/WS 90)

FOR MORE INFORMATIONS, PLEASE CONTACT:

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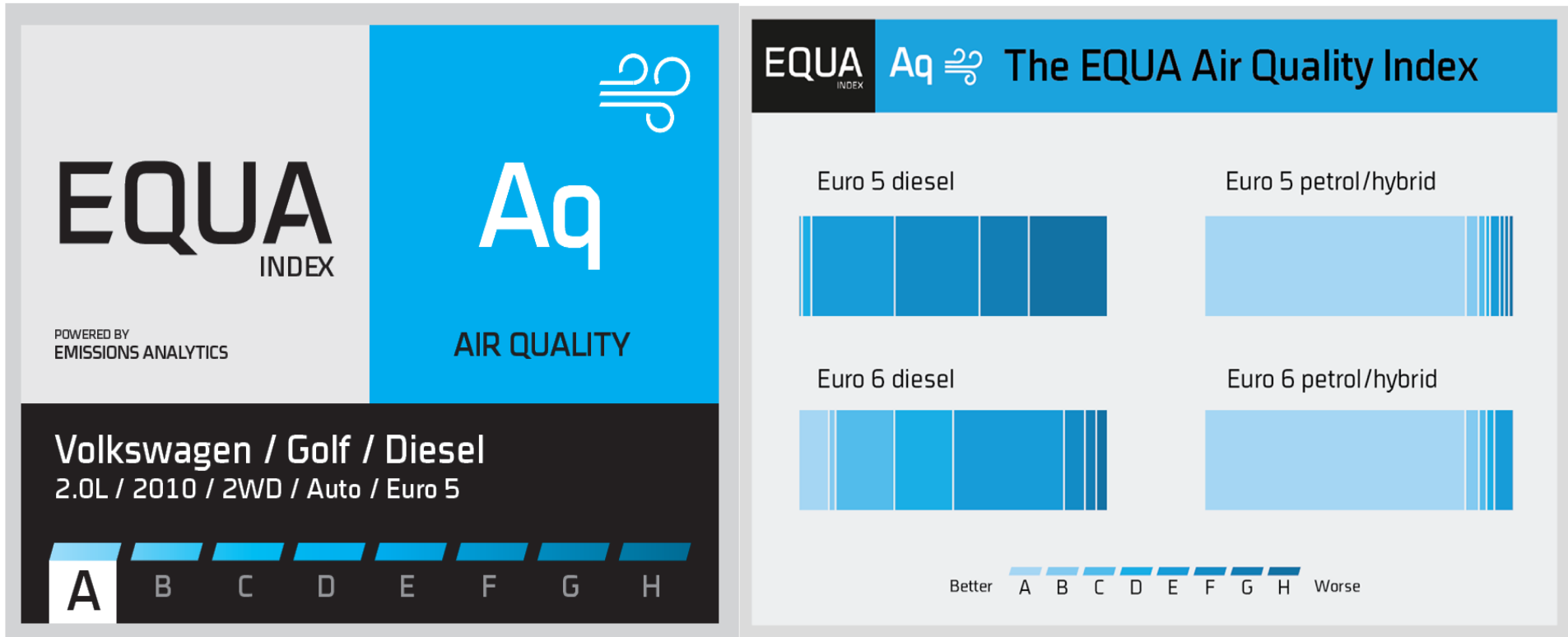


Launch Video

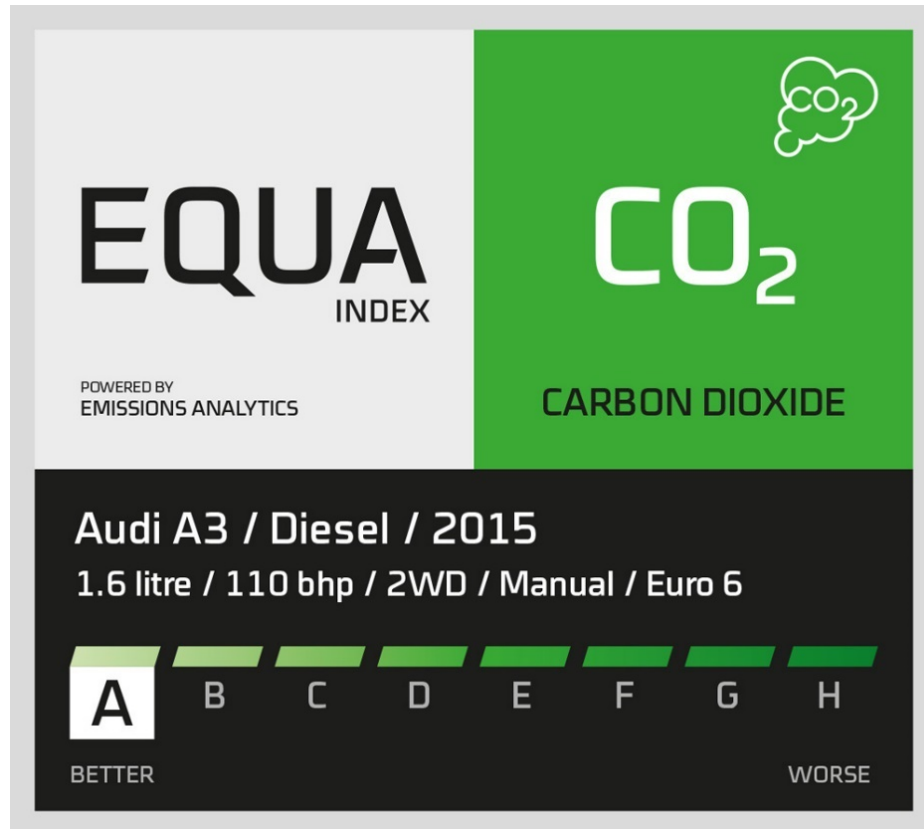
AIR Allow
Independent
Road-testing

THANK YOU

EQUA - Air Quality Index



EQUA CO₂ – Carbon Dioxide index



- CO₂ values for almost all vehicles on sale in the last six years
- Over 70,000 model variants
- Remainder extrapolated using new proprietary model of real-world fuel efficiency, based on technical characteristics of vehicles
- Complemented by EQUA 100 and EQUA Mpg for fuel efficiency
- Near-comprehensive alternative to official labelling system