



MODULE 1: PURCHASING CLEAN VEHICLES



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1.1: MOTIVATIONS FOR CLEAN VEHICLE PROCUREMENT



AIR QUALITY

- PM₁₀
- NO₂
- NO_x and NO₂
- PM_{2.5} – the next big (very, very small) thing

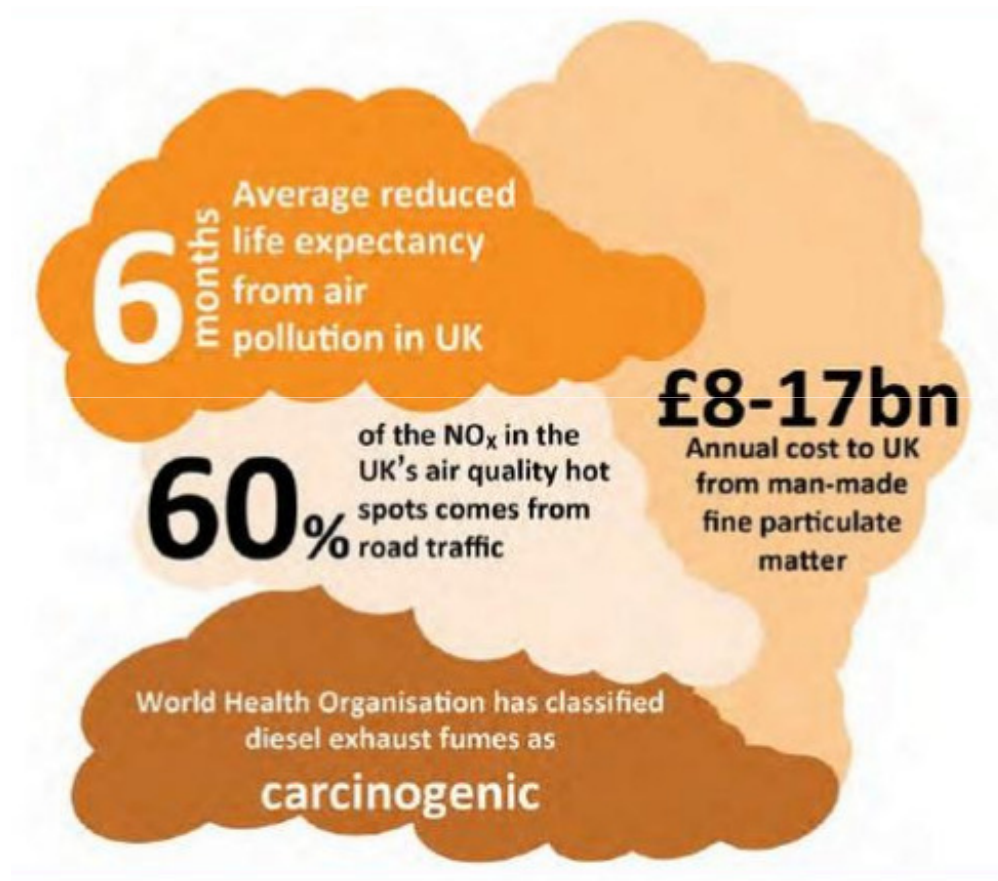


[Smog Moscow August 2010](#) CC BY-SA 3.0



HEALTH IMPACTS OF LOCAL AIR POLLUTANTS

- Premature death
- Asthma
- Respiratory illness
- Various types of cancer
- Cardiovascular illness





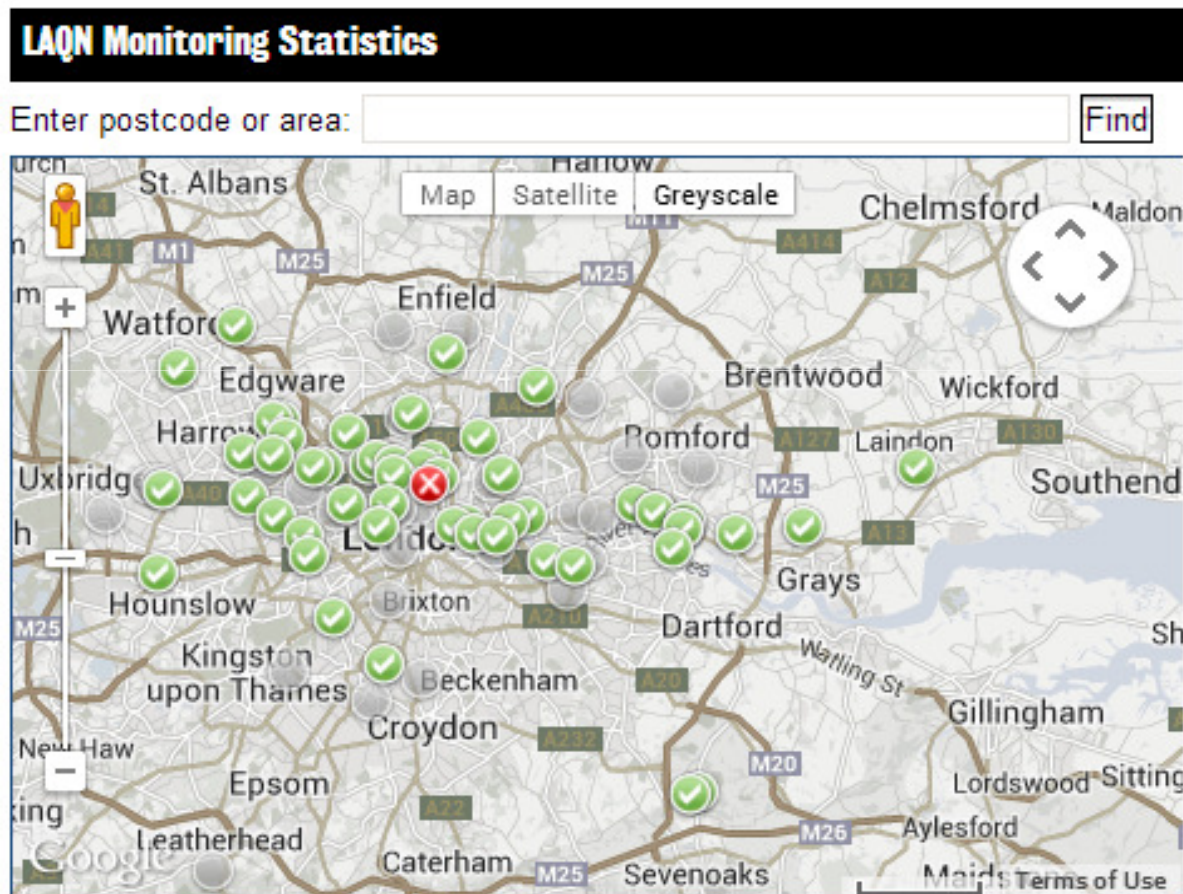
MONITORING POOR AIR QUALITY



[An air quality measurement station in Edinburgh, Scotland](#) [CC BY-SA 3.0](#)



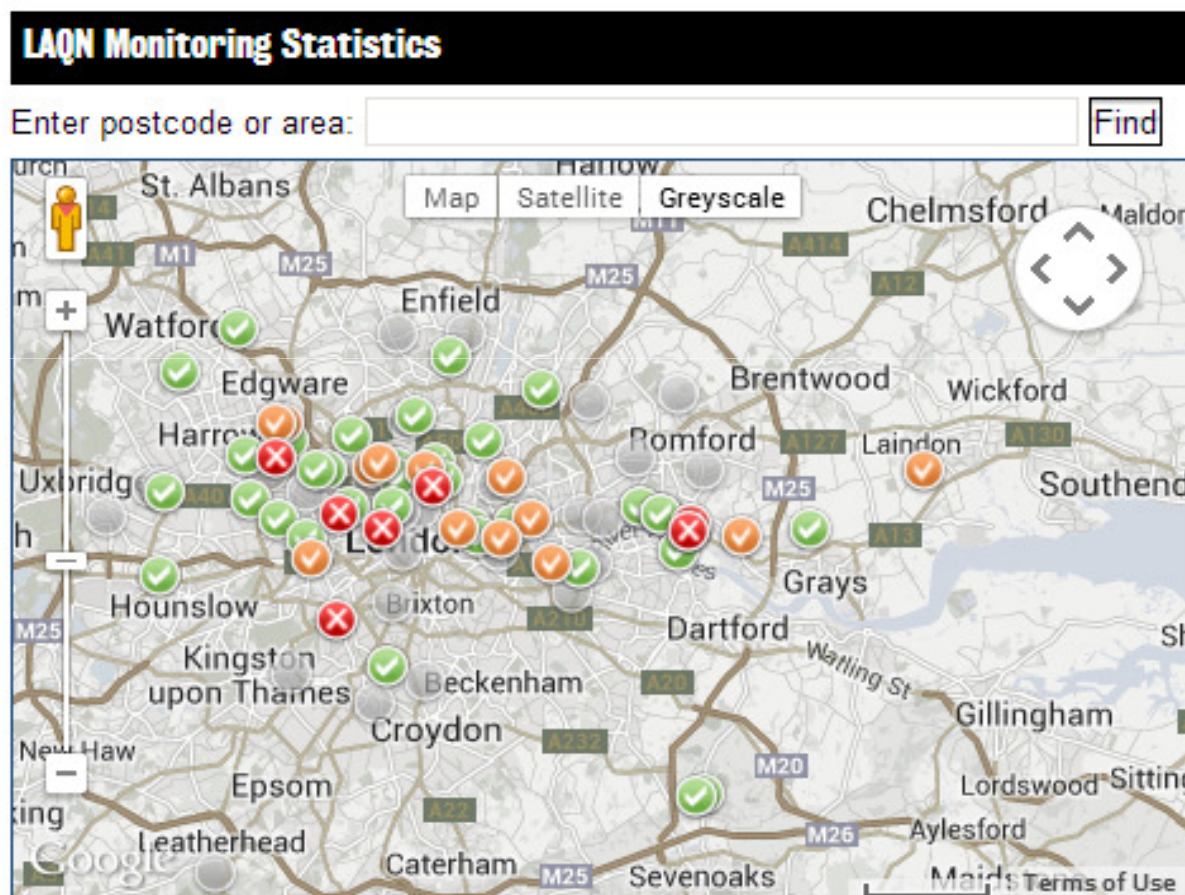
PM10 ANNUAL MEAN



Source: <http://www.londonair.org.uk>



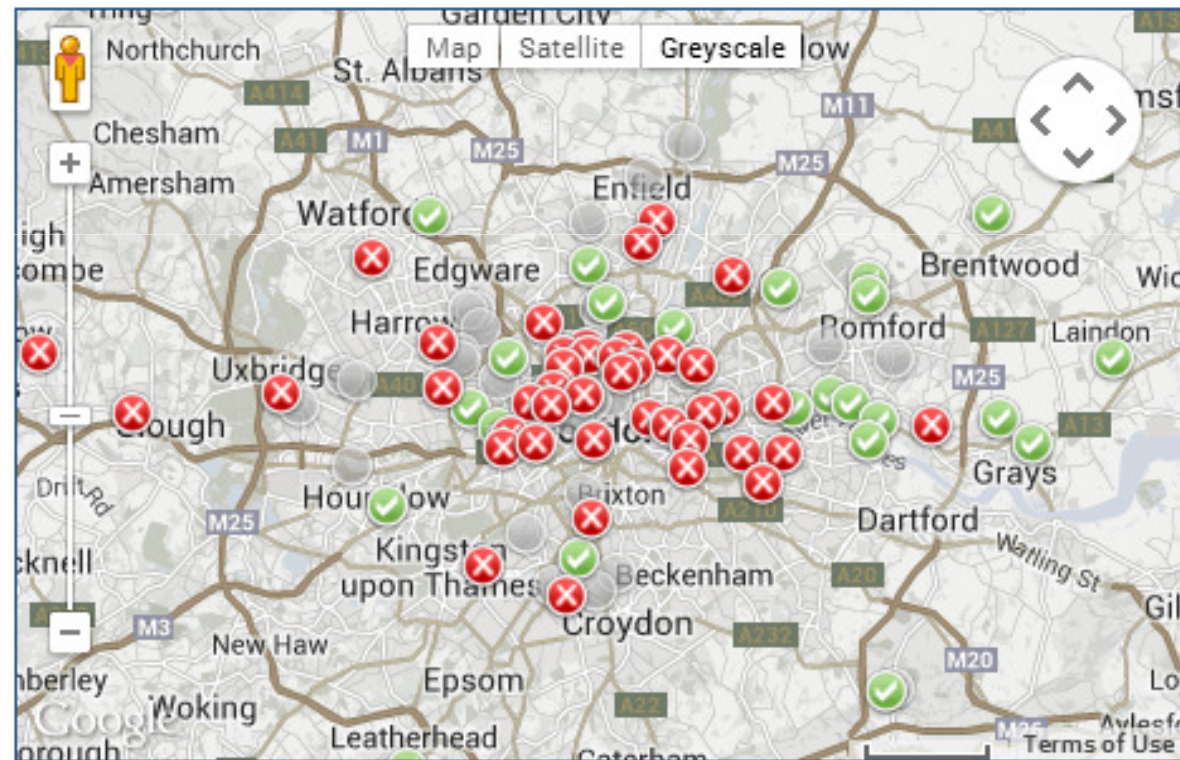
PM10 DAILY MEAN



Source: <http://www.londonair.org.uk>

LAQN Monitoring Statistics

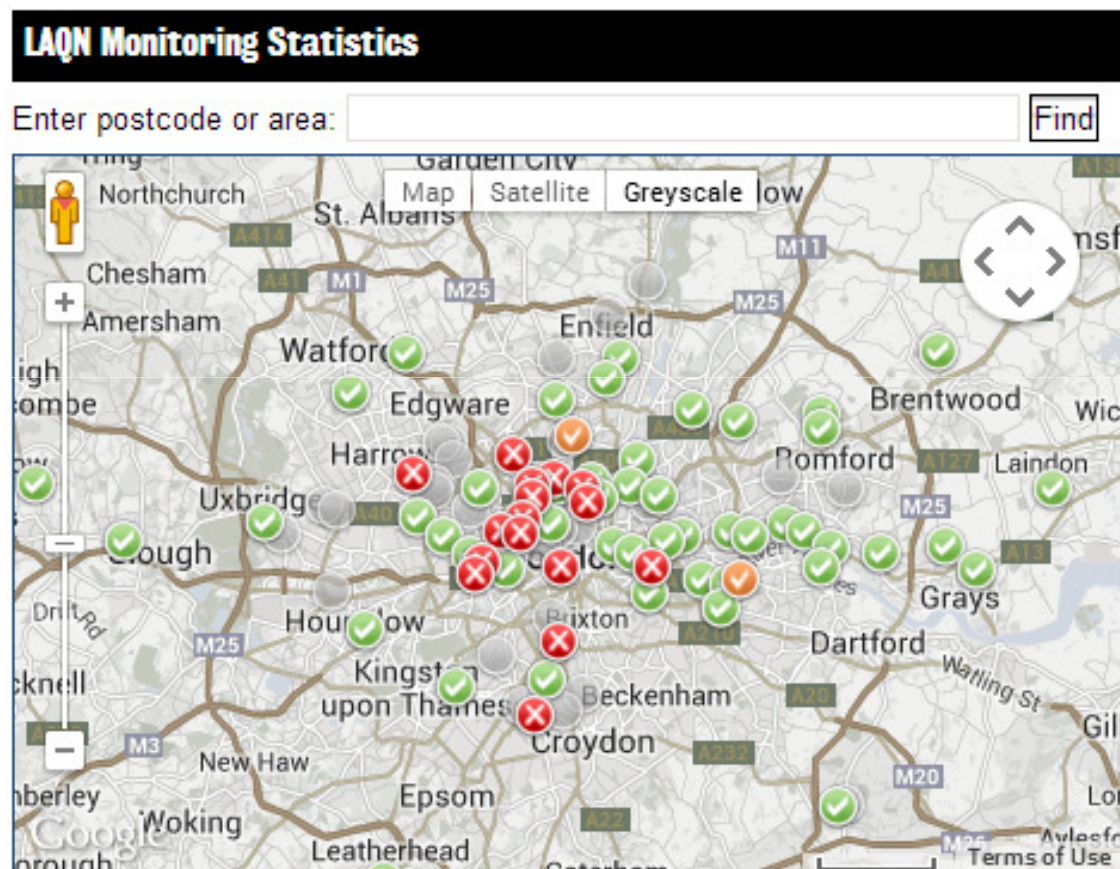
Find



Source: <http://www.londonair.org.uk>



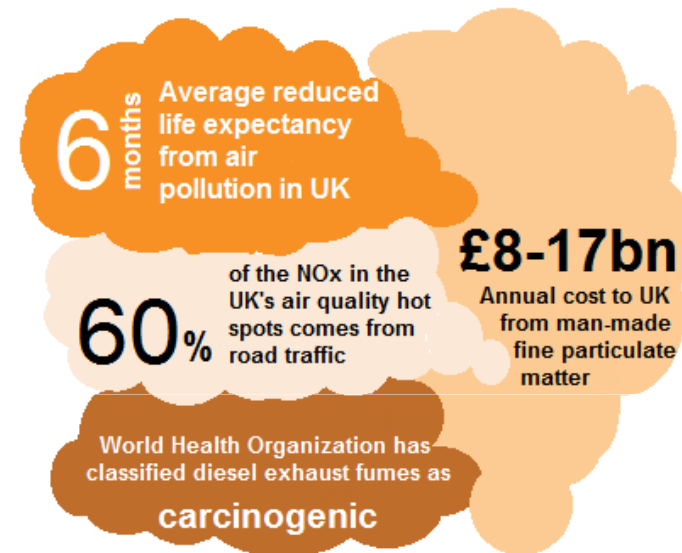
NO₂ HOURLY MEAN





SOURCES OF AIR POLLUTION

- Saharan dust
- Industry
- Break and tyre wear
- Construction
- Transport



- Your city, does it exceed local air pollution limits?

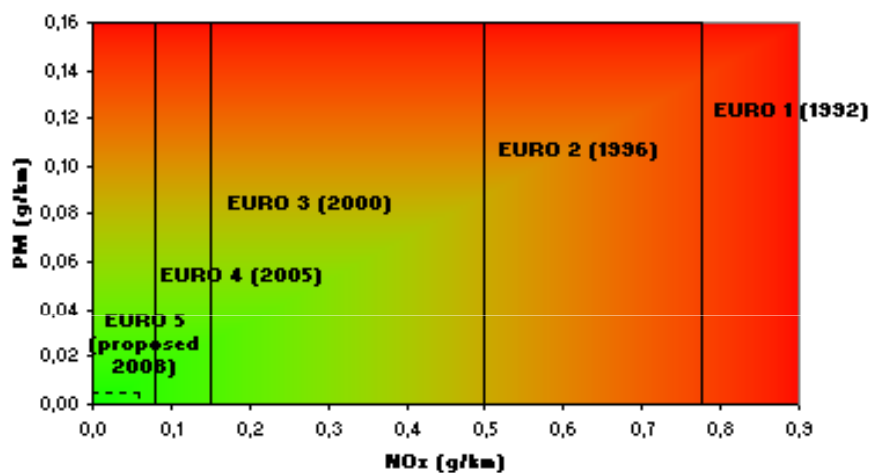


EURO STANDARDS

- Heavy vehicles Euro VI
 - All new vehicles

- Light vehicle Euro 6
 - All new M1(cars) from September 2014
 - N1i vans from September 2014
 - N1ii, N1iii, N2 vans from September 2015

NOx and PM emission standards for petrol cars





GLOBAL AIR POLLUTION

- CO₂e
- Transports contribution circa 22%
- EU targets
- National targets
- CO₂ - a product of burning fossil fuels



WHY BURN LESS?

- Contributes to climate change
- Contributes to poor air quality
- Often from unstable regions
- Price subject to global fluctuations
- Globally, the EU wants to show leadership in moving away from fossil fuels