Improving air quality in London
London in 6 facts

The Complete List of Alpha++ Global Cities

- London
- New York

By 2030, London will have a population of 10m

That’s nearly 2m extra people

The main transport impacts on health

- Physical Inactivity: £9.8bn
- Air Pollution: £10.6bn
- Road collisions: £8.7bn

Km of NO2 exceedence in 2015

GDP, £Bn

- Central London
- Kuwait
- New Zealand
- Qatar
- Czech
Challenges

Way we travel

• emissions / pollution
• health
• choice
  (schools/hospitals, conflict?)
• demand?

Way we serve London

• freight
• construction
• Servicing/deliveries
• economic growth

Role for technology

• fuels
• vehicles
• sustainability
Challenges

NO2 2010 Annual Mean

NO2 Annual Mean (ug/m3) 2010
Source: LAEI 2010

NO2 2010 Annual Mean
Solutions 1

Congestion charge
- Since 2003
- Central London
- Removed 70,000 vehicles
- Reduced PM and NOx emissions by 16%

Low Emission Zone
- Covers 98% of London
- Standards tightened in 2012 to Euro IV for HGVs, buses and coaches
- From 2012 large vans and minibuses included (Euro III)

Buses
- 450 hybrid buses
- 1,600 by 2016 (20% of fleet)
- Hydrogen and electric bus trials
- SCR retrofit programme for up to 1,000 older buses
Solutions 2

Taxis

• From 2012 15 year age limit retiring 2,300 taxis (10% of fleet)
• Minimum Euro V standard
• Ultra Low Emission taxi from 2020

Buildings and planning

• Retrofit older buildings
• “Air quality neutral” for new developments
• CHP/biomass emission standards
• Construction machinery and dust

Public health and comms

• Work with NHS
• airTEXT
• Cleaner Air Champions
Solutions 3

Ultra Low Emission Zone (from 2020)

• Congestion charging zone?

• Charging hours (7am – 6pm)?

• Different approach for different vehicles?
Air quality positive information & modal shift programme (£1M over 3 years) to directly reach ~2M Londoners by the end of 2015.

- Expected to get ~0.2M people out of road vehicles on “Breathe Better Days and will…
- Highlight & accelerate Mayors action on AQ, cycling, walking, cleaner buses, engine idling, etc.

Approach builds on “Get ahead of the games” to
- Create a directly transmitted, cascading “Virtual Channel” to ~2M Londoners.
- Use this to gradually frame positive air quality messages to establish a clear…
- Call to action-Breathe Better Days when 1-in-10 receivers expected to act differently.