AIR POLLUTION ACROSS EUROPE: DIESELGATE AND BEYOND

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400,000 PREMATURE DEATHS FROM PARTICLE EMISSIONS
75,000 PREMATURE DEATHS FROM NITROGEN DIOXIDE
EU VEHICLE EMISSION STANDARDS FAIL ON THE ROAD

NOx standards on the road

Emission standards
Nox emissions in g/km

Reality
Nox emissions in g/km

Source: Transport & Environment and the ICCT
DIESEL CARS: MAIN CAUSE IN CITIES

Above and beyond the legal NO\textsubscript{x} limits

Source: Transport & Environment
ILLEGAL SWITCH OFF OF EMISSION CONTROLS

When carmakers switch off pollution control

Average temperature in Europe: 9°C

Below 17°C
Opel (Vauxhall)
Below 17°C
Renault-Nissan
Below 10°C
Daimler

Below 5°C
Peugeot
High speeds & full car
Ford
High speeds & full car
Fiat

Source: National investigations in DE, FR, UK
37 MILLION DIRTY CARS AND VANS DRIVE ACROSS EUROPE

Dirtiest vehicles on whose roads?
Thousands per member state (Euro 5 and Euro 6)

France: 5,527
Germany: 5,321
United Kingdom: 4,310
Italy: 3,139
Spain: 1,897
Belgium: 1,379
Austria: 737
Sweden: 696
The Netherlands: 536
Poland: 430
Portugal: 376
Czech Republic: 290
Denmark: 273
Finland: 161
Romania: 154
Luxembourg: 135
Slovakia: 130
Slovenia: 109
Hungary: 105
Estonia: 27
Latvia: 22

Source: Transport & Environment and EEA
EUROPE: DIRTY DIESEL ISLAND

Europe: a diesel island
7 in 10 diesel cars and vans are sold in Europe

70% Europe

1% U.S.A.

2% China

2% Turkey

3% South Korea

15% India

Rest of the world: 7%

Source: Global Fuel Economy Initiative & OICA
NATIONAL AUTHORITIES ARE Failing TO ACT
BETTER ENFORCEMENT: EU EPA?

EU Market Surveillance Mechanism

- Spot check cars on EU roads
- Audit national authorities
- Investigate complaints on non-compliance

Management Board

- Commission
- National vehicle experts
- Industry: carmakers, testing services
- Civil society, NGOs

Source: Transport & Environment
**WHAT SHOULD EU DO?**

<table>
<thead>
<tr>
<th>Type approval reform: independent &amp; effective enforcement at EU level</th>
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<tr>
<td>Force carmakers to clean up dirty diesels on the road now</td>
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<td>ZEV mandate as part of post-2020 CO2 regulations</td>
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<td>Technology neutral Euro 7 standard</td>
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<td>Improve Real-world Driving Emissions (RDE) tests</td>
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<td>In use checks over vehicle lifetime (PTI legislation)</td>
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THANK YOU!

QUESTIONS?

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