

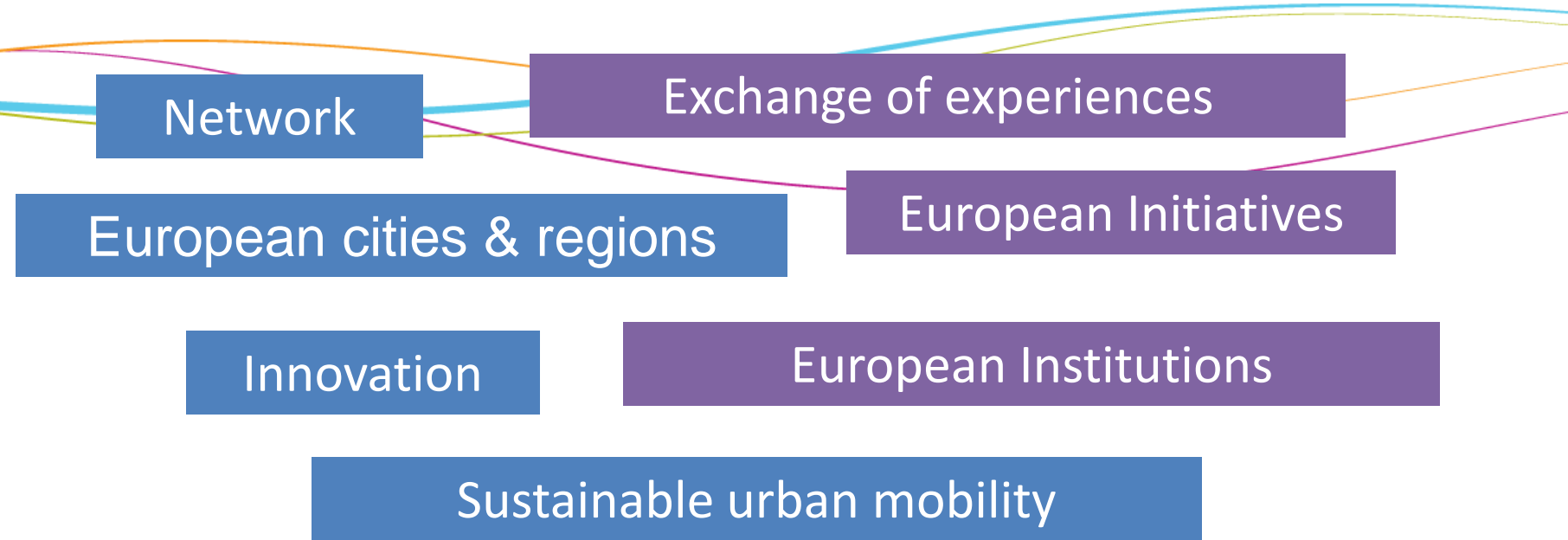


EUROPEAN CITIES AND REGIONS NETWORKING
FOR INNOVATIVE TRANSPORT SOLUTIONS

Air quality abatement: challenges & solutions from the local level

Gabriela Barrera

What is Polis ?



Air Implementation Pilot

EEA Report | No 7/2013

Air Implementation Pilot

Lessons learnt from the implementation of air quality legislation at urban level

ISSN 1725-9177

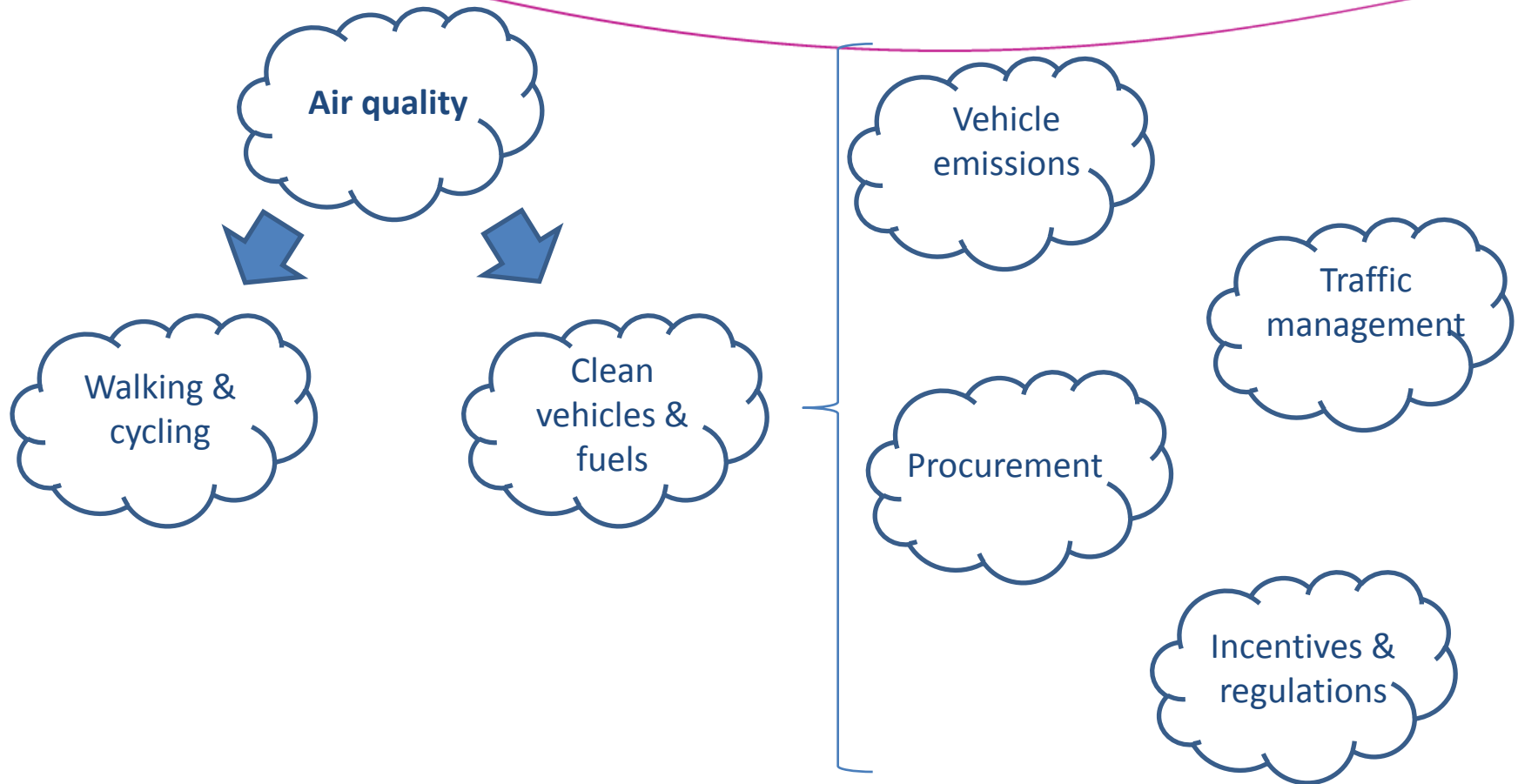


www.ponisnetwork.eu

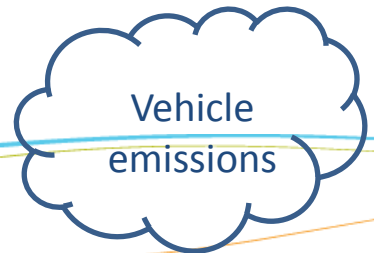
➤ Understand challenges & solutions, 5 'workstreams':

- **Emission inventories:** better input data and guidance on methodology
- **Modelling:** shortcoming inventories & other data, specificities urban topography, complexity & results validation
- **Monitoring networks:** location
- **Management practices: 50% traffic related measures**
- **Public information:** feedback

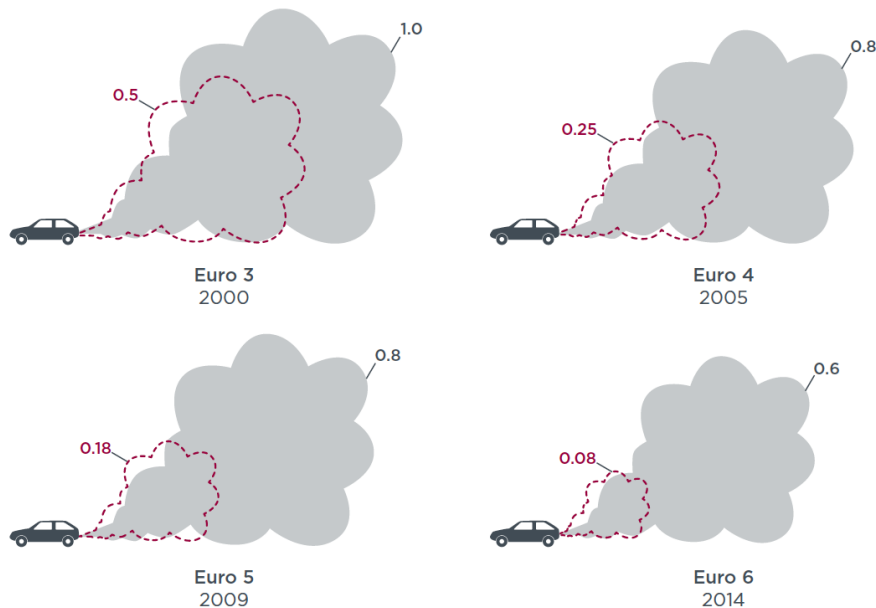
Air quality and transport



Test cycle/RDE



Diesel cars: Nitrogen oxides (NO_x) emissions (in g/km)



In-service emissions performance of Euro 6/VI vehicles.

A summary of testing using London drive cycles.



■ On-road measured value (Carslaw, 2011) / (ICCT, 2014)
 --- Euro emission limit

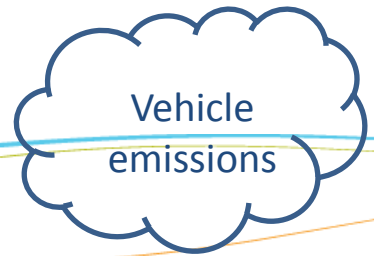
MAYOR OF LONDON



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Fleet data & emission inventories



➤ Circulating fleet study Madrid (2013). Assessment according to:

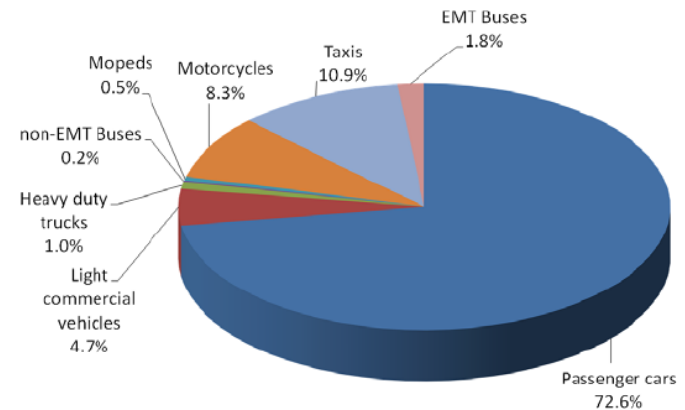
- Vehicle type
- Fuel
- Vehicle age

➤ Data gathering using traffic cameras. Cross check with National Authority register

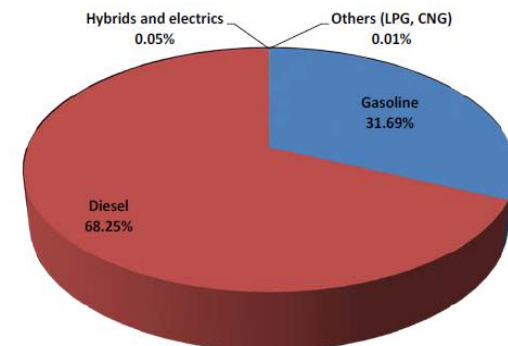
➤ Aid decision making mobility policies

➤ Use of vehicle fleet data for on-road mobile sources emission inventories

Standard vehicle – VFCS 2013 – Inside M30 (Zone A)



Distribution of the passenger cars (exc. taxis) by fuel (total municipality)



Emission-based traffic control

Traffic
management

➤ CIVITAS measure in Stuttgart

➤ Dynamic speed limits dependent on air quality

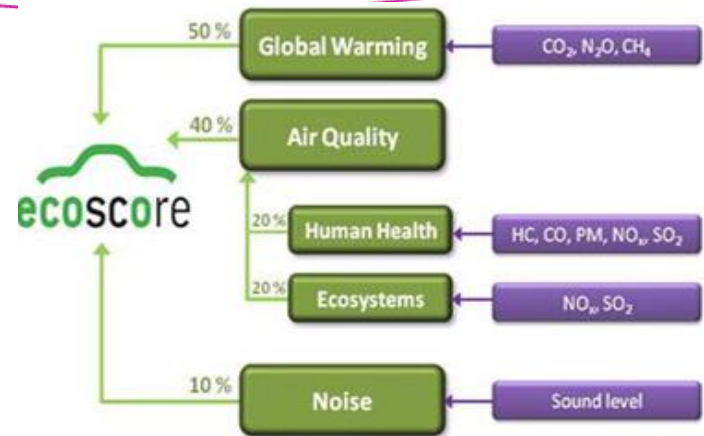
- Maximize reduction of emissions through traffic control (NOx 10%, PM10 15%)
- Dynamic signs
- Enforcement by cameras
- Software interface at traffic management center
- Increase public awareness



Leading by example

Procurement

- Many authorities introducing low-emission vehicles in own fleets
- Different procurement frameworks
 - Brussels: public authorities no more diesel cars. Ecoscore: environmental rating for vehicles
 - EVs: joint procurement programmes



Clean Vehicles Directive

Procurement

➤ Clean Fleets Project & Polis recommendations [//www.clean-fleets.eu//](http://www.clean-fleets.eu//)

- *EU clean vehicle standard for public authorities/advance clean vehicle standard as optional*
- *National fleet managers capacity building programmes, centres for AFV fleet management (with EU funding support)*
- *Extend applicability of the CVD operator of public services which involve the use of vehicles as major component of the contract.*
- *At national level set a time table for gradual replacement/retrofitting old vehicles. EU support for related projects*



Ex-post Evaluation of Directive 2009/33/EC on the promotion of clean and energy efficient road transport vehicles

Final Report

Study contract no. MOVE/A3/119-2013 Lot N° 5
21 September 2015



By Charlotte Brännigan, Stephen Luckhurst, Felix Kirsch, Edina Lohr (Ricardo Energy & Environment) and Ian Skinner (TEPR)
September 2015

Supporting clean vehicles up-take

Incentives & regulations

- Financial incentives
- Access restrictions, LEZ
 - EC Study
- Parking
- Engaging with private operators
 - Recognition schemes
- Captive Fleets
- Integration transport network



Conclusion

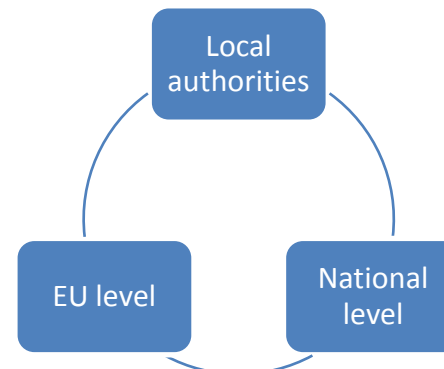
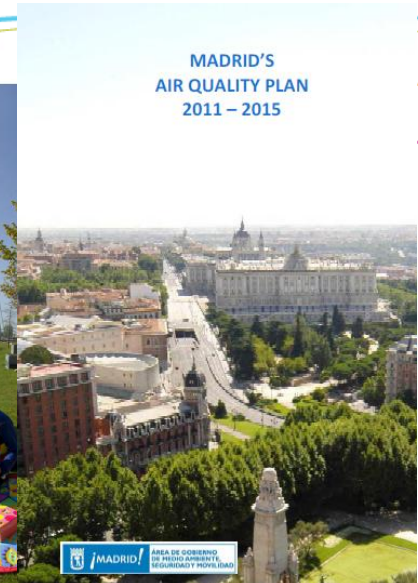
➤ AQPs-SEAPS, SUMP

- Local initiative
- Overlapping schemes/stakeholders
- Common tools
- Public awareness

➤ Clean vehicles & alternative fuels as cross cutting area

➤ Emissions reduction-impact human health

➤ Coordination/Synergies



Coordination/Synergies

Clean vehicles & alternative fuels

Air quality

Noise

Congestion

Congestion

White Paper

Energy Union

Clean Air Policy
Package

Urban Mobility
Package

Infrastructure
Alternative fuels

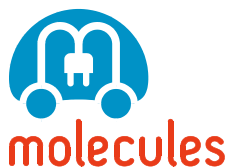
Clean Vehicles
Directive



FReight Electric Vehicles in Urban Europe



Cleaner and better transport in cities



Thank you!

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