

ZERO EMISSION CITY LOGISTICS THE ROLE OF EU REGULATION

Pauline FOURNOLS, “Successfully Implementing ZEZ for freight delivery” workshop, 31 March 2020



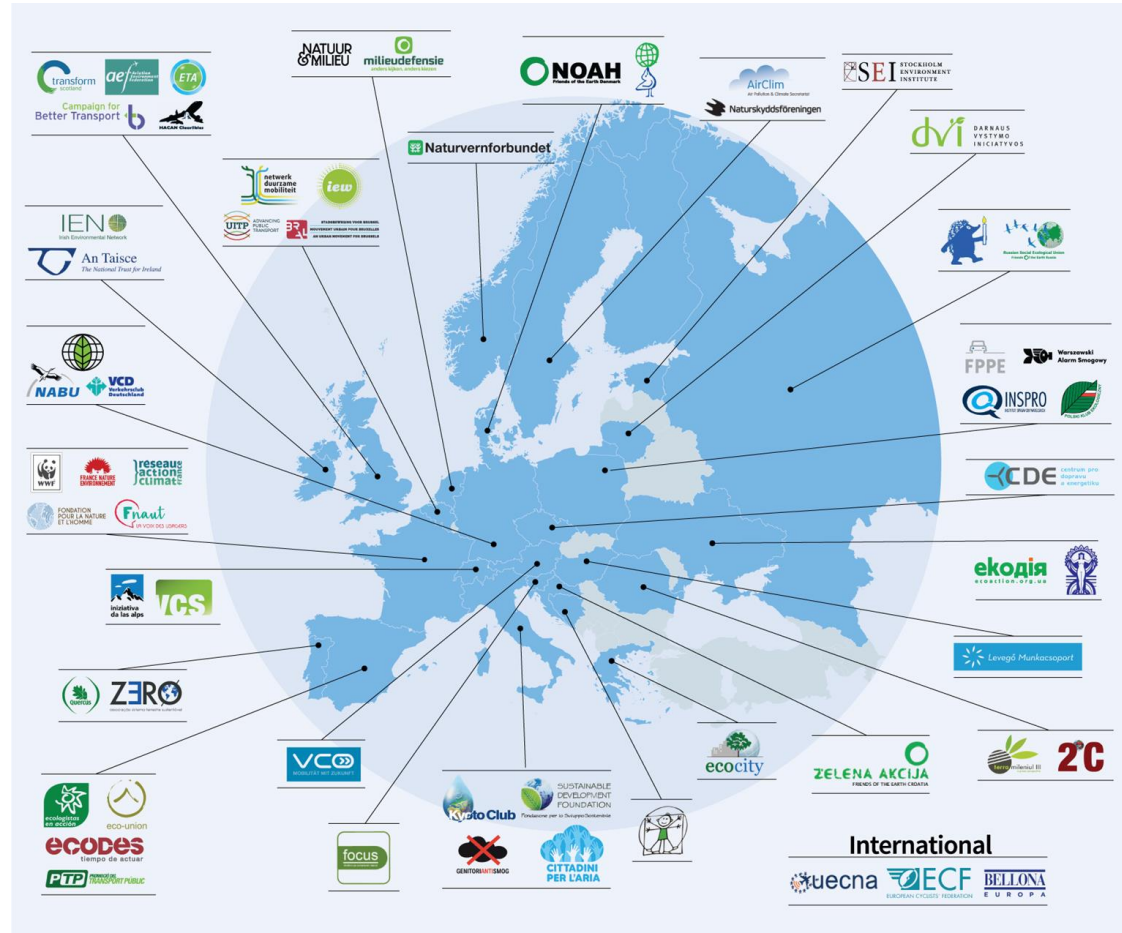
Transport & Environment

Who are we ?

- Federation of NGOs
- 49 members from 25 European countries
- HQ in Brussels + 5 national offices

How do we work ?

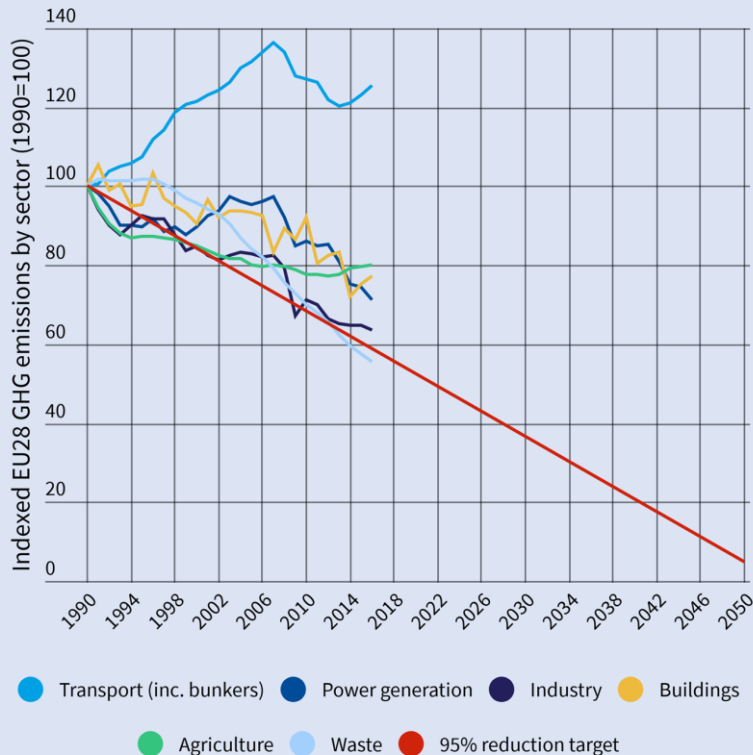
- Financed by public money and foundation
- Research and scientific evidence based



THE CONTEXT

The context

Transport CO2 emissions are rising



Trucks & vans Nox emissions in EU cities

	Vans	Trucks	Total
Berlin	13.2%	17.5%	30.7%
London	15.1%	23.6%	38.7%
Paris	13%	23%	36%
Rotterdam	25%	37%	62%

New Commission, new opportunities

A new ambition :

- the EU Green Deal: road transport emission to be decrease by 90% in 2050
- A new white paper (July 2020): the **Smart and Sustainable Mobility Strategy**



Infrastructure

Supply of ZE vehicles

Air quality

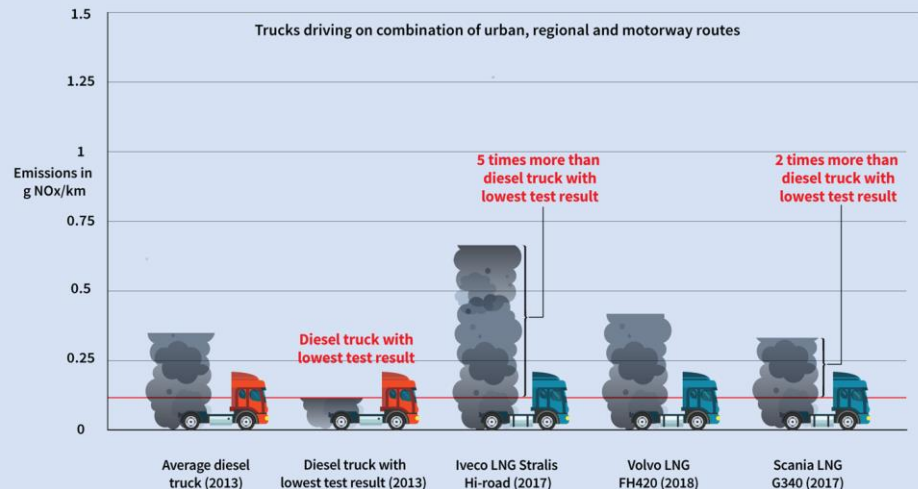
Low and Zero-Emission Zones

A CLEAR PATHWAY FOR ELECTRIC VANS & TRUCKS IN CITIES

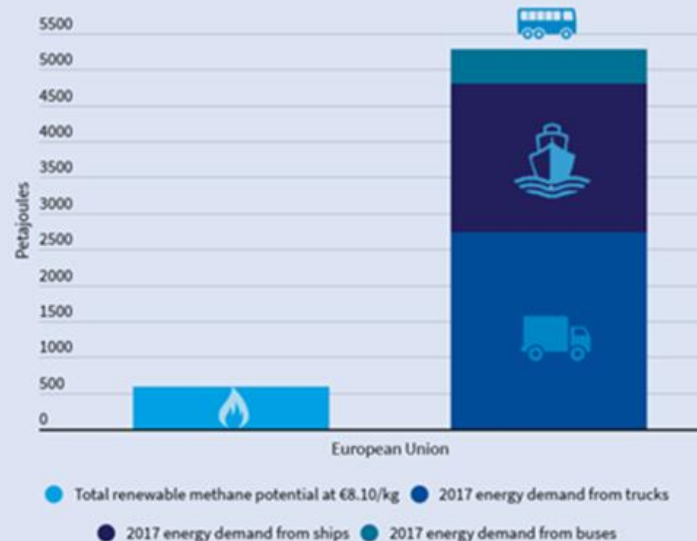


Gas is not a clean alternative

Clean gas? LNG trucks emit up to 5 times more NOx pollution than diesel



2050 total renewable methane potential in the European Union



Notes: Assuming that all available renewable methane potential is supplied to the transport sector, leaving nothing for the power, industry and buildings sectors. Representing the total biomethane and power-to-methane production potential in the EU in 2050. A retail price of €8.10/kg is more than 6 times higher than the current price level of methane in transport. Assuming a 85/15% HDV emissions split between trucks and buses as reported to the UNFCCC GHG Inventories.

Sources: ICCT (2018), Eurostat (2017), UNFCCC (2017).

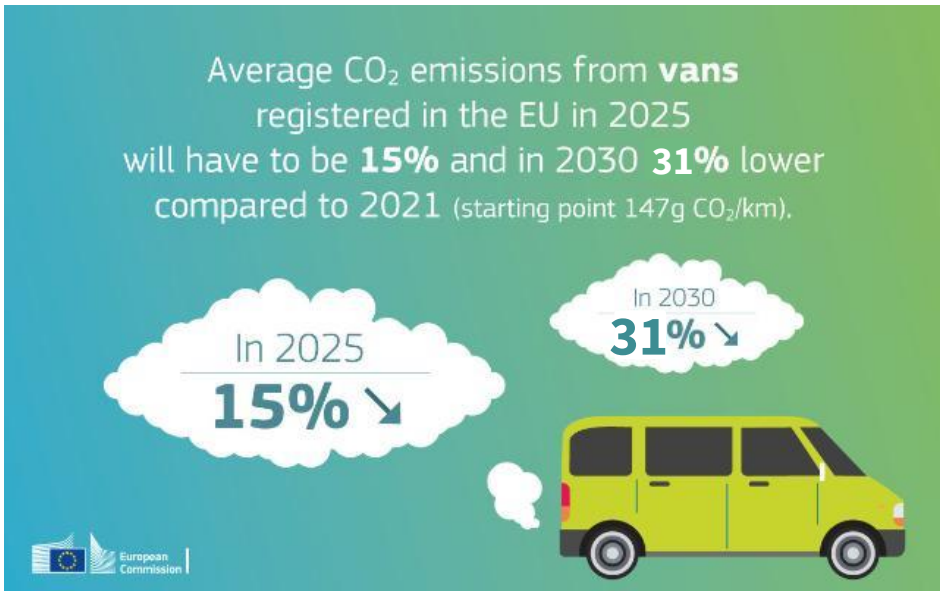
Daimler: CO₂-neutral commercial vehicle fleet by 2039

“Truly CO₂-neutral transport only works with battery-electric or hydrogen-based drive.”

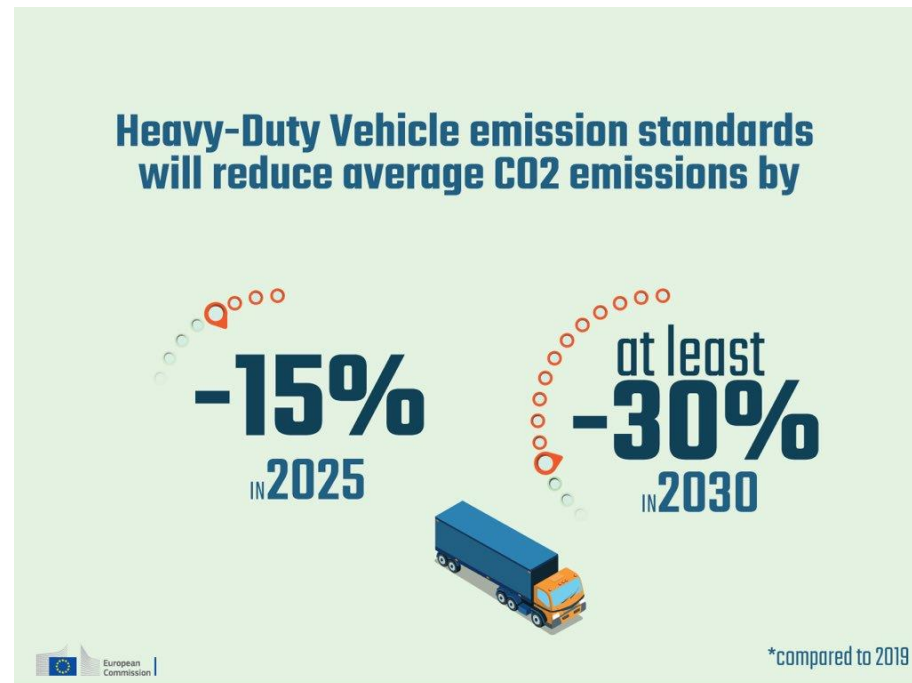
TRUCK CO2 STANDARDS DRIVE THE SUPPLY



CO2 standards vans & trucks (2018 & 2019)



To be revised in 2021



*compared to 2019

To be revised in 2022



PRESS RELEASES

31.01.2018

RENAULT TRUCKS WILL START SELLING ELECTRIC TRUCKS IN 2019

ELECTROMOBILITY

- Renault Trucks expects electric vehicles to account for 10% of its sales by 2025
- Daimler Truck CEO: *“Commercial vehicle manufacturers such as Daimler are **under pressure to sell more battery-powered vehicles** over the next decade after the European Commission called for the sector to cut emissions by 15 per cent by 2025 and 30 per cent by 2030. [...] **It’s a target that you can’t reach with a diesel engine any more.**”*

- Iveco plans 8-10% sales of zero emission vehicle >16t in 2025

■ Press release

Volvo Trucks launches sales of electric trucks for urban transport

11/6/19

AB Volvo

Volvo Trucks announces the start of sales of its Volvo FL and Volvo FE electric trucks in selected markets within Europe, meeting the increasing demand for sustainable transport solutions in city environments.

Revision of the CO2 standards regulation in 2021 and 2022 will be a big opportunity to strengthen the ambition and include all vehicles

AIR POLLUTION

Issues

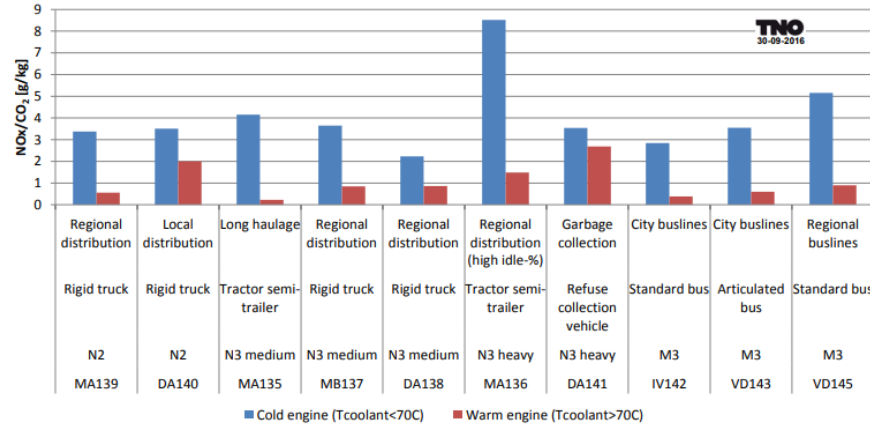
AdBlue cheating

High NOx levels at low speed

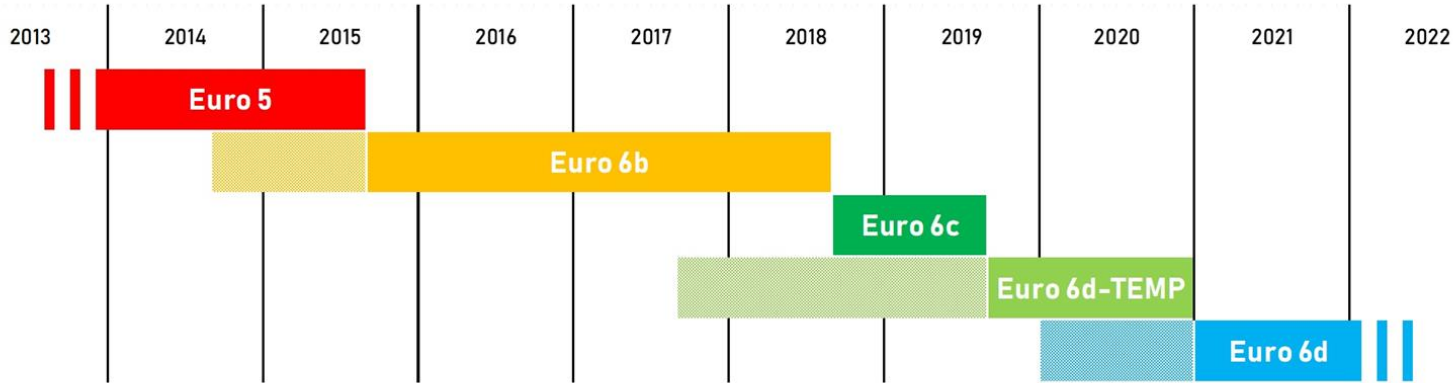
Non compliant gas trucks



REAL-WORLD NO_x EMISSIONS THE IMPORTANCE OF COLD START



Euro VII could overcome this



Euro 7 ?

"Euro VII" standard has been announced for 2021 (Green Deal).

Our recommendations:

- Set the EU vehicle emission limits to the **lowest level globally** & define **a clear roadmap to zero**
- Regulate **all pollutants** that are harmful to public health and the environment
- Fix issues in **real testing conditions**, to apply emission limits under all possible driving conditions
- Ensure that emission limits are met throughout the **whole lifetime** of the vehicle.

CHARGING INFRASTRUCTURE IN CITIES

EU standards and financing for public charging

The AFI directive (to be revised early 2021)

EU funding for cities



#ConnectingEurope #CEFTransport

#investEU   

€198 MILLION
CEF TRANSPORT
BLENDING CALL
2019

The image is a promotional graphic for a CEF Transport Blending Call. It features a blue and white geometric design with triangles and arrows. The text is in blue and white. At the top, there are social media-style hashtags: #ConnectingEurope and #CEFTransport. Below that are logos for #investEU, the European Commission, and the Innovation and Technological Executive Agency. The main text reads '€198 MILLION CEF TRANSPORT BLENDING CALL 2019'.



ZERO EMISSION ZONES

If well designed, LEZ works

Low-Emission Zones work, but are not enough



67% of Europeans surveyed support Low-Emission Zones

LEZ work & achieve reductions of up to



32% for NO₂



>250 European cities have a Low-Emission Zone

London
Amsterdam
Madrid
Paris
Brussels



European capitals have started moving towards Zero-Emission Zones

5 dimensions for a well designed LEZ

Territory

Predictability

Stringency

Enforcement

Limited exemptions

Urban Vehicles Access Regulation
(UVAR)

From LEZ to ZE

National measures

More and more countries plan to phase out diesel and petrol cars



City can be more ambitious !

- Current measures are **insufficient to reduce air pollution below EU legal limits**
- **LEZ must evolve to ZE.** Progressivity and planning are important.

Conclusion

- No gas vehicles should be incentivised
- Make use of EU funding available to deploy infrastructure !
- LEZ work but should be transformed into ZEZ
- EU regulation offers lots of opportunity to make it happen and **city can be frontrunners** and more ambitious !