Accordo di Parigi e Agenda 2030 per lo sviluppo sostenibile

Webinar tematici gratuiti

Mercoledì 25 ottobre 2017 (ore 15,30-16,30)

Le politiche europee sulle emissioni dei veicoli.

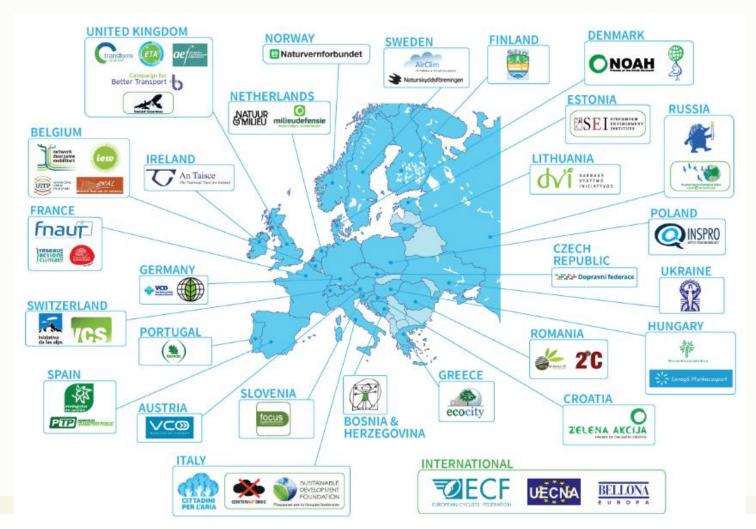
Veronica Aneris, Senior Policy Consultant -Transport & Enviroment







T&E: 27 COUNTRIES 50 MEMBER & SUPPORT GROUPS







OUR MISSION



OUR MISSION

Transport policy should minimise harmful impacts on the **environment** and **health**, maximise **efficiency** of **resources**, including energy and land, and guarantee safety and sufficient access for all.



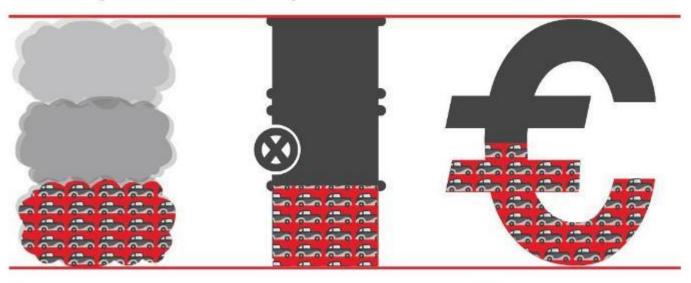
OUR ASSETS

Credibility is our key asset. Therefore we are a non-profit and politically independent, and we are strong believers in the power of science and evidence in policymaking.





Transport in Europe



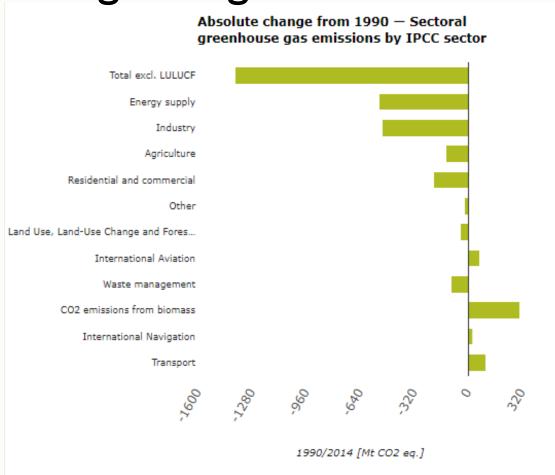
1/3 OF CARBON
1/3 OF ENERGY
1/2 OF ENERGY
1/3 OF ENERGY







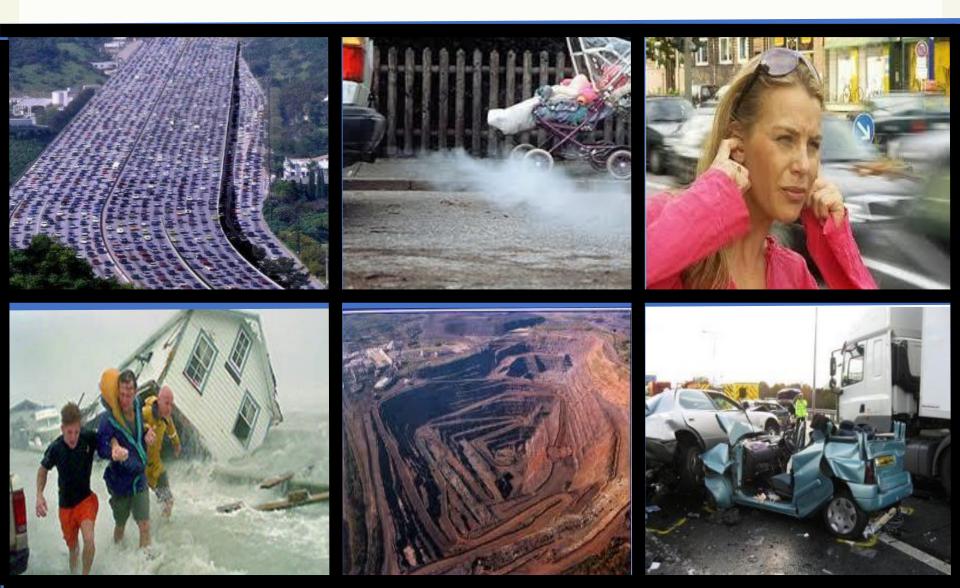
Transport sector is where CO2 emissions still growing





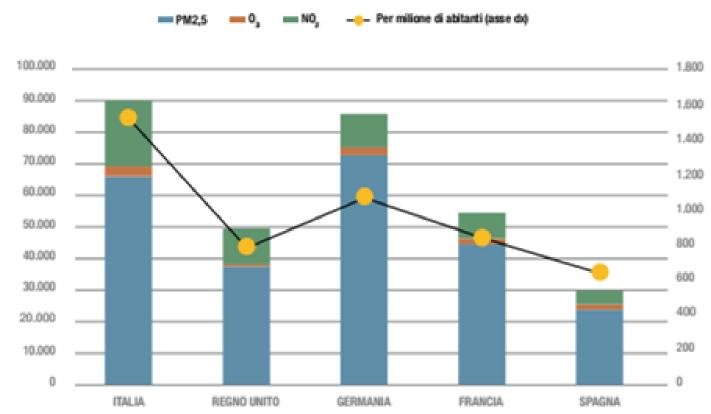


CARS ARE HIGHLY UNSUSTAINBALE



AIR QUALITY ITALY AT THE FIRST PLACE FOR PREMATURE DEATHS

Numero di decessi prematuri per inquinamento atmosferico in alcuni Paesi europei nel 2013, valore totale (sx) e per milione di abitante (dx)









A BUSY EU AGENDA FOR TRANSPORT POLICIES

- From NEDC to WLTP for CO2
- From NEDC to WLTP and RDE for NOx
- Type Approval Framework Regulation Post Dieselgate
- New Mobility Package (post 2020 car and van regulation/ZEV target)
- New Renewable Energy Directive/Biofuels Policy





A-S-I APPROACH

AVOID / REDUCE

SHIFT / MAINTAIN

IMPROVE







Reduce or avoid the need to travel Shift to or maintain share of more environmentally friendly modes

Improve the energy efficiency of transport modes and vehicle technology

System Efficiency Trip Efficiency Vehicle Efficiency



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Car (and van) CO2 standards are lowering Emissions

1998-08

- Voluntary agreement (1.3%)
- Failed and discredited
- 2008-15
- 130g/km 2015, (3.9% pa)
- Overachieved

2015-21

- 95g/km 2020, (4.5%pa)
- On-track

2021-25

75g/km, 2025
 Increasing hybridisation

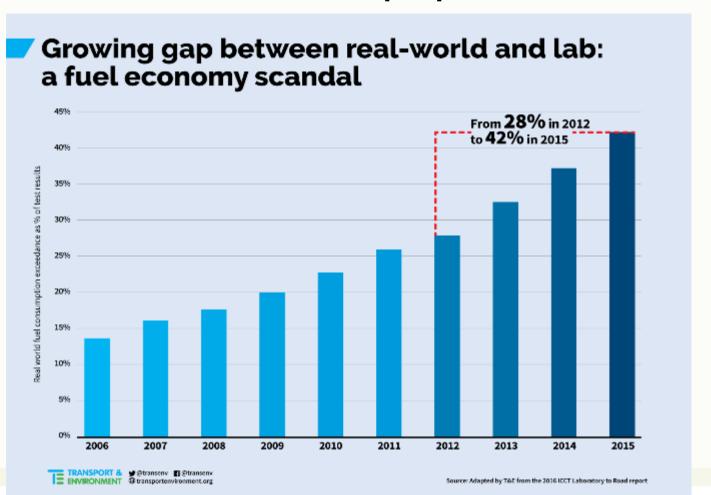
2025 **–** 30

• Electrification





MIND THE GAP: Cars CO2 emissions, much reduction is on paper







Common ways for test manipulating







Why test manipulation must be stopped

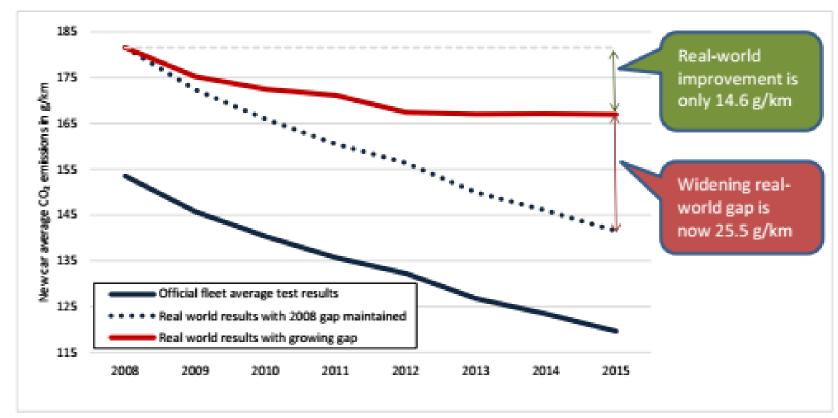


Fig 3: Official CO₂ test results versus the real world outcomes in 2014 for private motorists (derived from ICCT, 2016 and EEA official CO₂ data)





From NEDC to WLTP: good but not enough.

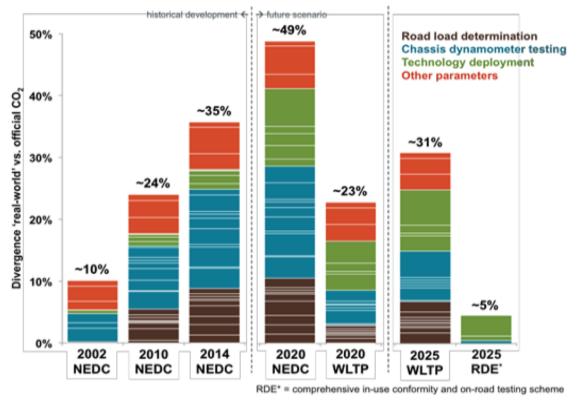


Fig 2: Causes of the gap between CO₂ test results and real-world driving





Con il sostegno del Ministero dell'Ambiente

Kyoto Club

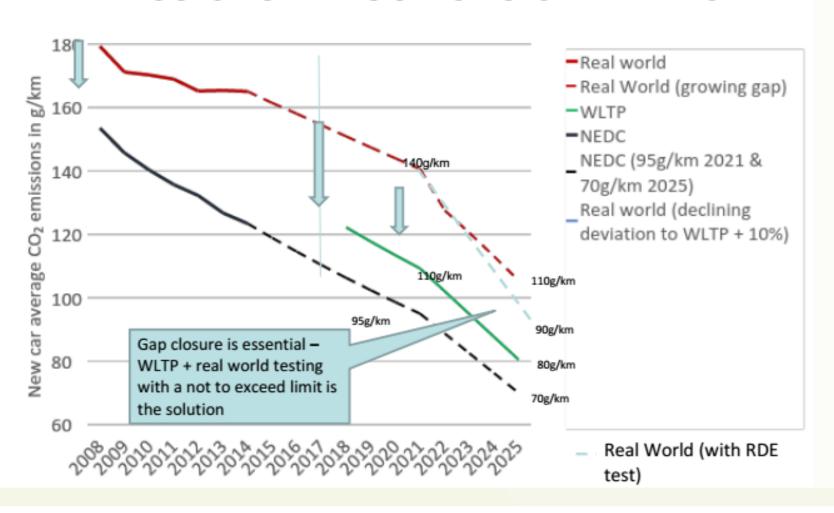
RDE + WLTP significantly lower the gap







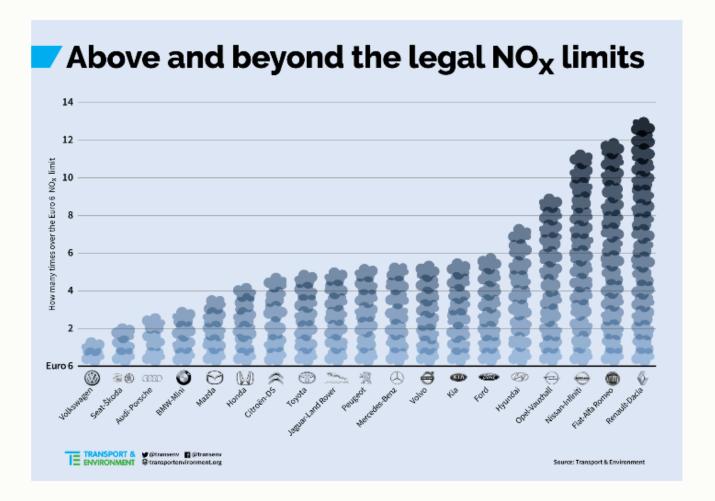
A NOT TO EXCEED LIMIT AND REAL WORLD TEST IS NEEDED TO DELIVER EMISSIONS REDUCTIONS ON THE ROAD







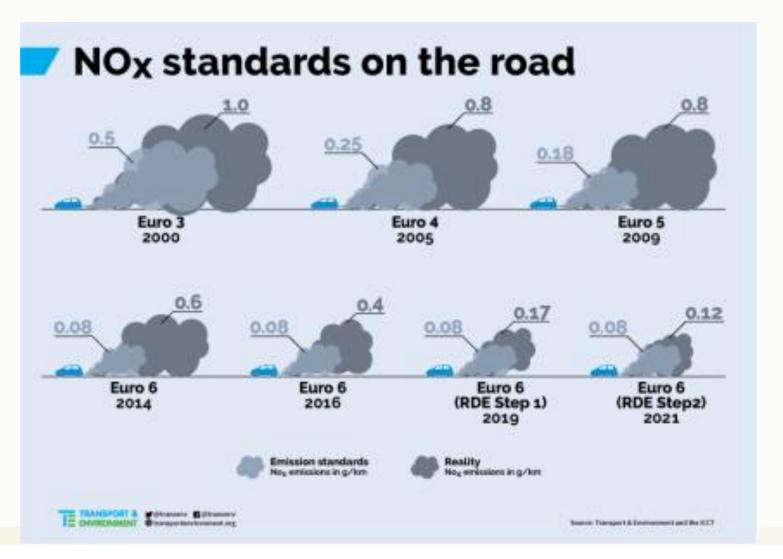
AIR QUALITY: Dieselgate







AIR QUALITY

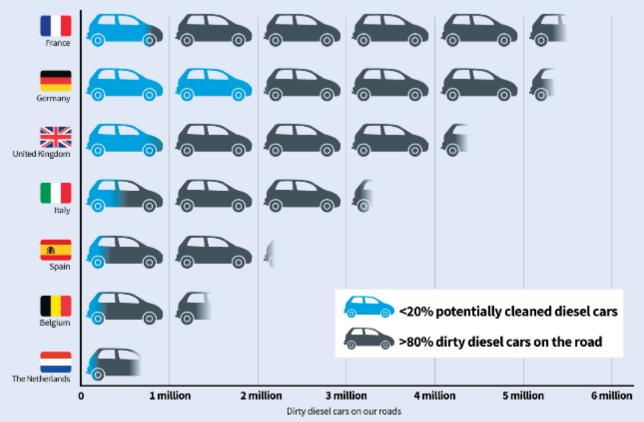






MINIMAL RECALL ACTION SO FAR:

At least 80% of dirty diesel cars remain on our roads

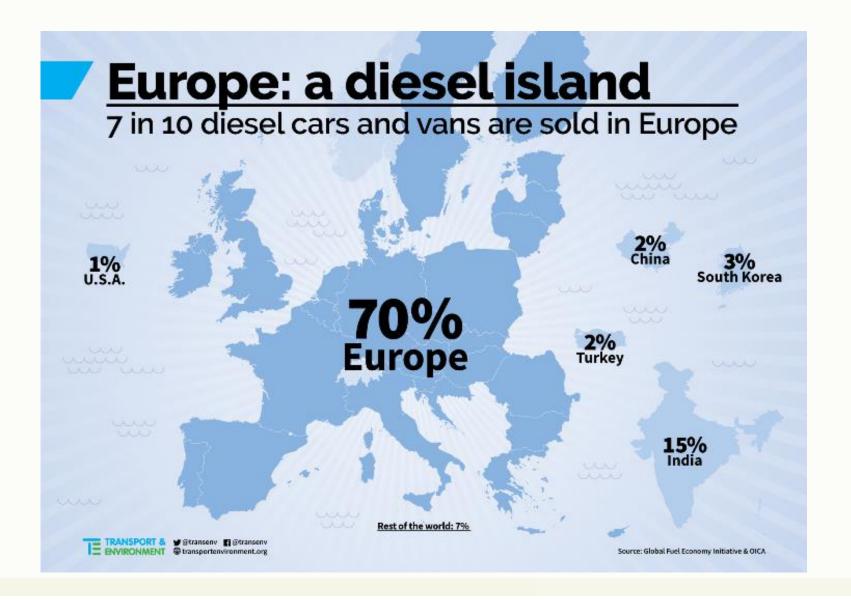


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Source: Transport & Environment, EEA and ICCT











Euro emission standards: passenger cars

| Euro stage | Year of entry into force for new models* | CO g/km | нс | HC+NO _X | NOx | PM | PN number/km |
|---|--|------------|------|--------------------|------|--------|----------------------|
| Compression ignition (diesel) | | | | | | | |
| Euro 1 | 1992 | 2.72 | - | 0.97 | - | 0.14 | - |
| Euro2 | 1996 | 1.0 | - | 0.7 | - | 0.08 | - |
| Euro 3 | 2000 | 0.64 | - | 0.56 | 0.50 | 0.05 | - |
| Euro 4 | 2005 | 0.50 | - | 0.30 | 0.25 | 0.025 | - |
| Euro 5a | 2009 | 0.50 | - | 0.23 | 0.18 | 0.005 | |
| Euro 5b | 2011 | 0.50 | | 0.23 | 0.18 | 0.005 | 6.0x1011 |
| Euro 6 | 2014 | 0.50 | | 0.17 | 0.08 | 0.005 | 6.0x10 ¹¹ |
| Positive ignition (petrol/gasoline/LPG/CNG) | | | | | | | |
| Euro | 1992 | 2.72 | | 0.97 | | | - |
| Euro 2 | 1996 | 2.2 | - | 0.5 | - | - | - |
| Euro 3 | 2000 | 2.3 | 0.20 | - | 0.15 | - | - |
| Euro 4 | 2005 | 1.0 | 0.10 | - | 0.08 | - | - |
| Euro 5 | 2009 | 1.0 | 0.10 | - | 0.06 | 0.005ª | - |
| Euro 6 | 2014 | 1.0 | 0.10 | - | 0.06 | 0.005ª | 6.0x1011** |

[&]quot; models already in production must comply typically around one year later



Source: European Commission



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[&]quot; applicable only to direct injection engines

BETTER ENFORCEMENT NEEDED

EU Market Surveillance Mechanism



EU Market Surveillance Mechanism





national authorities



Investigate complaints on non-compliance

Management Board



Commission



National vehicle experts



Industry: carmakers, testing services



Civil society, NGOs



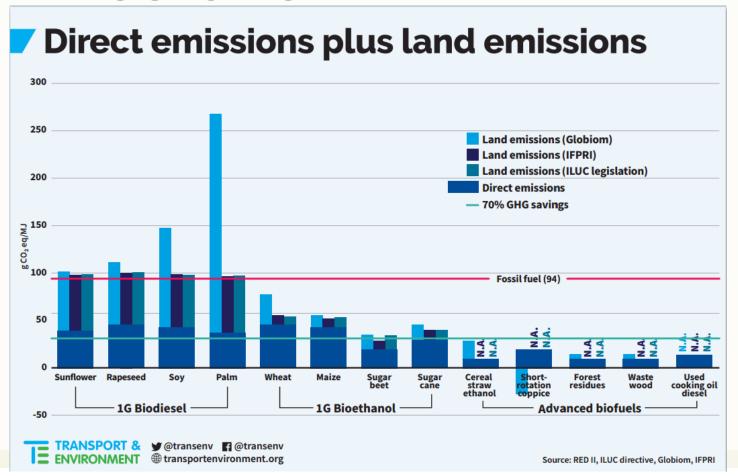
TRANSPORT & #@transenv @@transenv ENVIRONMENT @transportenvironment.org

Source: Transport & Environment con il sostegno dei ministero dell'Ambiente

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NOT ALL FUEL SUBSTITUTES REDUCE EMISSIONS

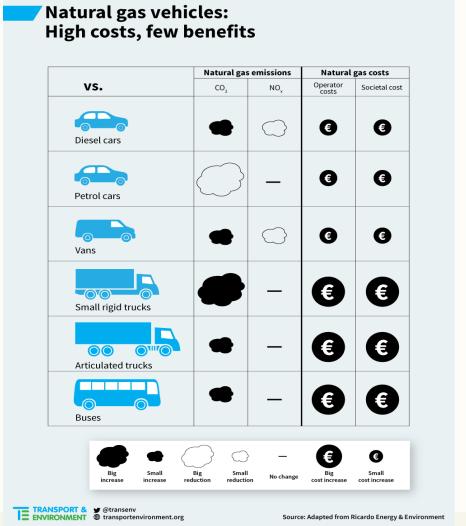






NATURAL GAS – NOT A CLIMATE OPTION

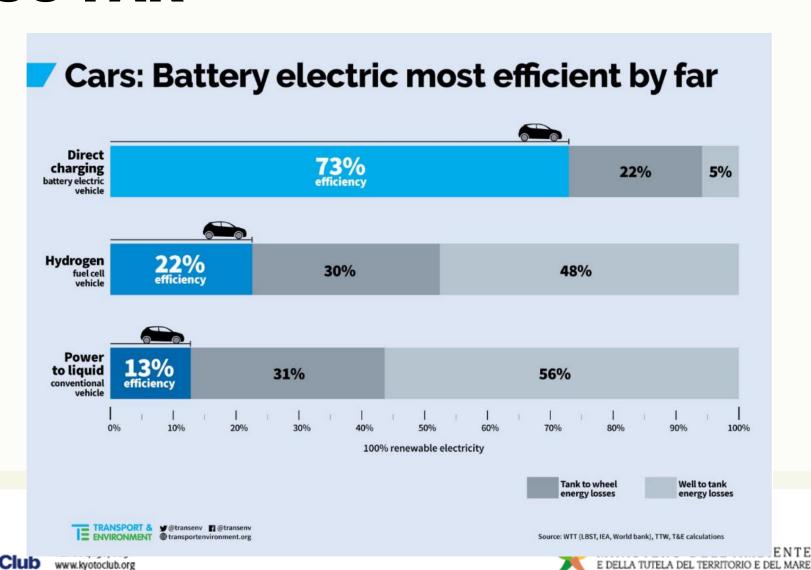
- Very inefficient in reducing climate gas and air pollution
- High societal costs
- Not a 'bridge fuel' but dead end

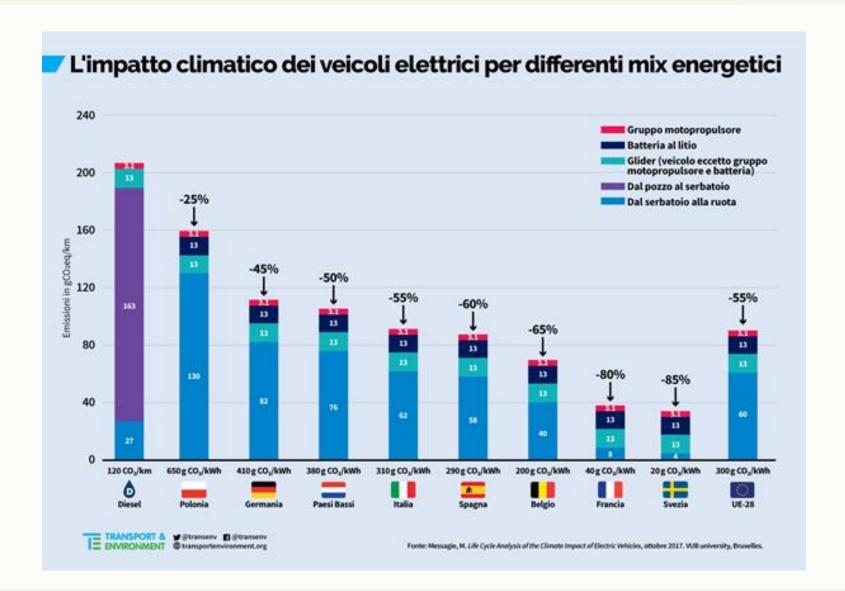






EVs: THE MOST EFFICIENT SO FAR





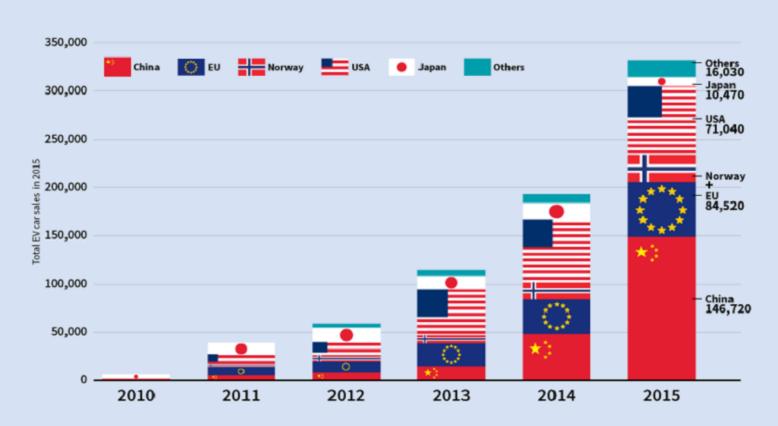




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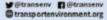
INDUSTRY COMPETITIVENESS CHINA: LEADING EV MARKET GLOBALLY

Europe: world's 2nd largest EV market





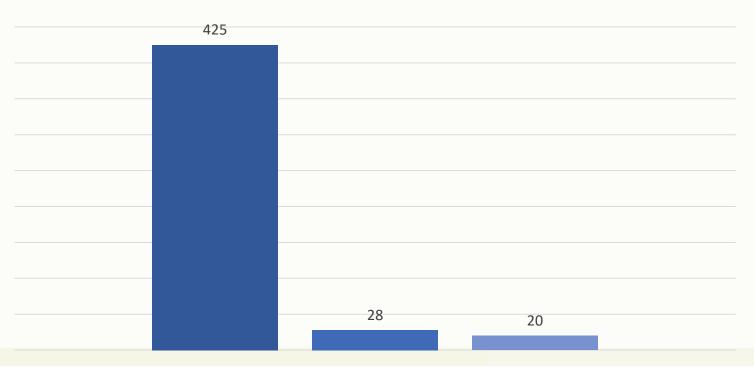






EU: LIMITED CHOICE UNDERMINING DEMAND FOR EVs

Number of Models available on EU market 2016



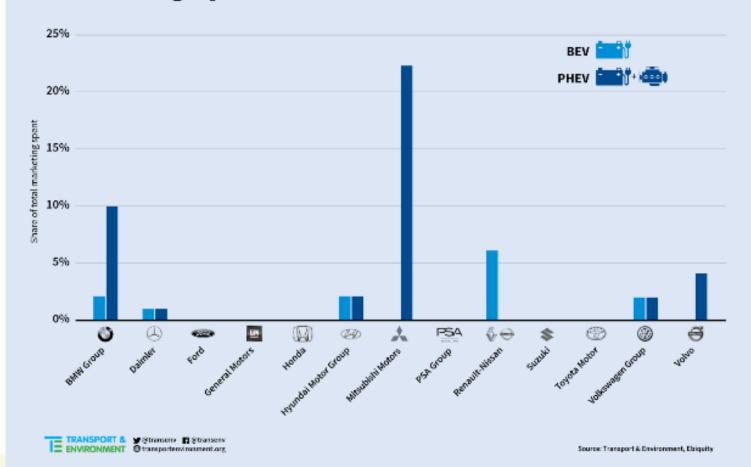


■ ICEV ■ PHEV ■ BEV



EV SUPPLY LAGGING BEHIND

Marketing spent in 2016 across EU core markets







ZEV TARGET: THE FUTURE IS ELECTRIC

Aids smart, renewable grid balancing

Creates pathway to 2050 goals Creates charging infrastructure business case

Reduces long term compliance costs

Drives EU investment in EV & cell manufacturing

Increased choice of models & marketing





NOVEMBER MOBILITY PACKAGE: OPTIMAL DESIGN OF POST 2020 CAR AND VAN CO2 STANDARDS

• 2025 75 g/km (WLTP) • 2030 55 g/km (WLTP) Targets cars ZEV sales target 2025 15-20% 2030 35-50% **ZEV Mandate** • Real World Testing & 115% Not to Exceed limit • Footprint metric for 2025 • Mileage weighting factor Cost reduction • Member States need to speed up infrastructure deployment

• Normal infrastructure at home and work (non-residential buildings)

Fast-charging infrastructure along TEN-T network

Infrastructure

WHAT THE EU SHOULD DO?

Type approval reform: independent & effective enforcement at EU level

2025 CO2 targets for cars, vans and trucks

ZEV mandate as part of CO2 regulations

Technology neutral Euro 7 standard

Phase out land-based biofuels by 2025

In use checks & real-world tests





Accordo di Parigi e Agenda 2030 per lo sviluppo sostenibile

Grazie per l'attenzione!

Veronica Aneris

Prossimo webinar:

Mercoledì 15 novembre 2017 (ore 15,30-16,30)

L'alternanza scuola – lavoro, opportunità per i giovani e le aziende.

Laura Bruni, Schneider Electric - GdL "Efficienza Energetica" Kyoto Club



Per l'elenco completo dei webinar consulta: www.kyotoclub.org/formazione/accordo-parigi-agenda-2030-sviluppo-sostenibile



