



Greener Mobility is more than just changing the car-engine or switching fuels

VCÖ – Mobilität mit Zukunft

Founded in 1988

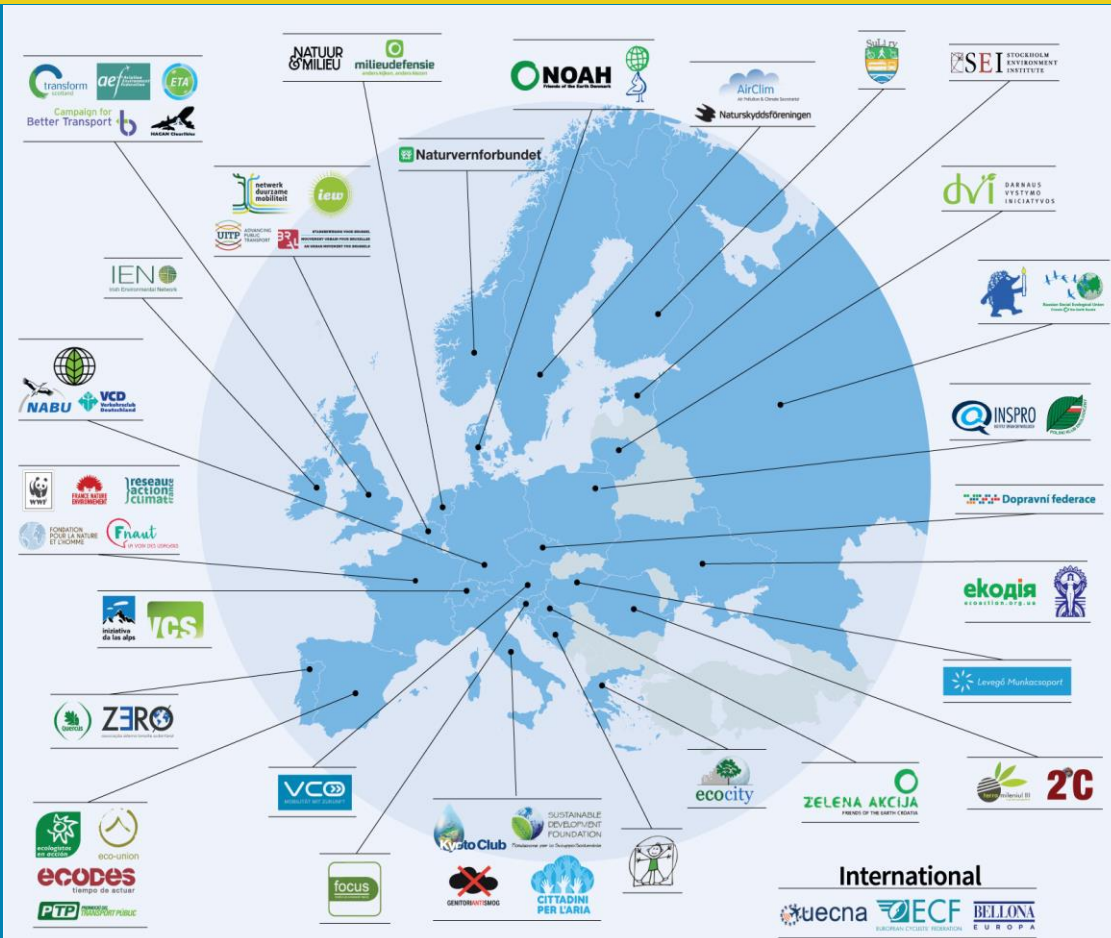
NGO, non-profit, politically independant,

working to limit the environmental and health damages from transport and mobility as well as to ensure mobility for all

Member of T&E (the European Federation for Transport and Environment)

29 Countries
60 members and supporters

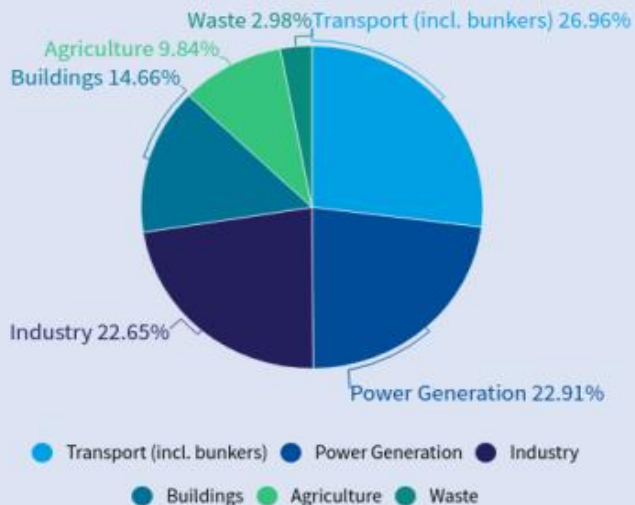
www.transportenvironment.org



Green Mobility – meaning what exactly?

- Using less energy per kilometer?
- Emitting less CO₂ per kilometer?
- Not contributing to air pollution?
- Over the products entire lifecycle?
- Including emissions in other countries?
- Including resource-use (raw-material, land-use, soil sealing, nature destruction?)
- What about rebound-effects – how are the prevented?

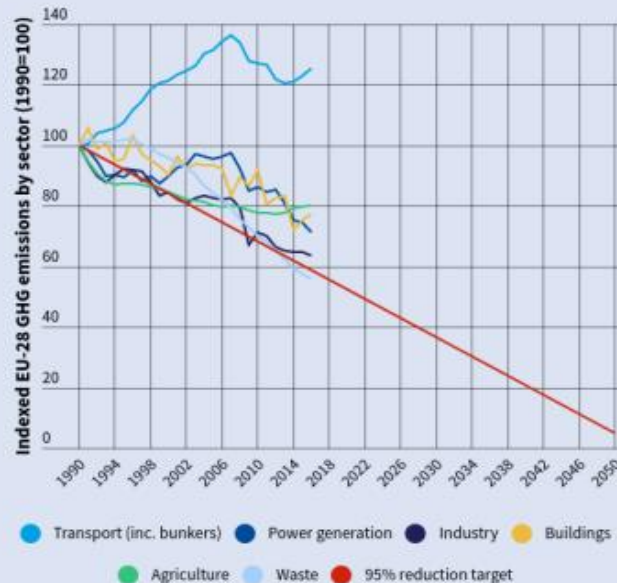
Transport in 2016 is Europe's biggest climate problem



Source: Adapted by T&E from EEA, Approximated EU greenhouse gas inventory 2016

Notes: 2015 emissions shares are used as a proxy to split the 2016 'Energy Industries' (IPCC sector 1.A.1) emissions into 'Power Generation' (IPCC sector 1.A.1.a) and 'Industry' (IPCC sectors 1.A.1.b, 1.A.1.c, 1.A.2. 2), as these splits are not available until official reports are released in spring 2018.

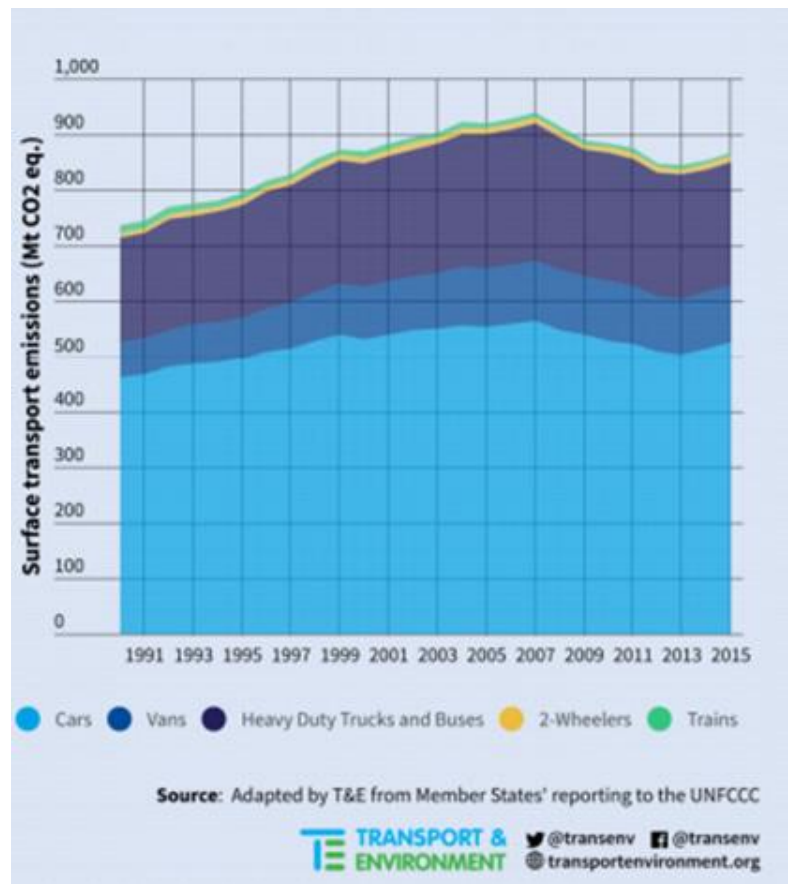
Off track: transport taking wrong turn to reach EU climate targets



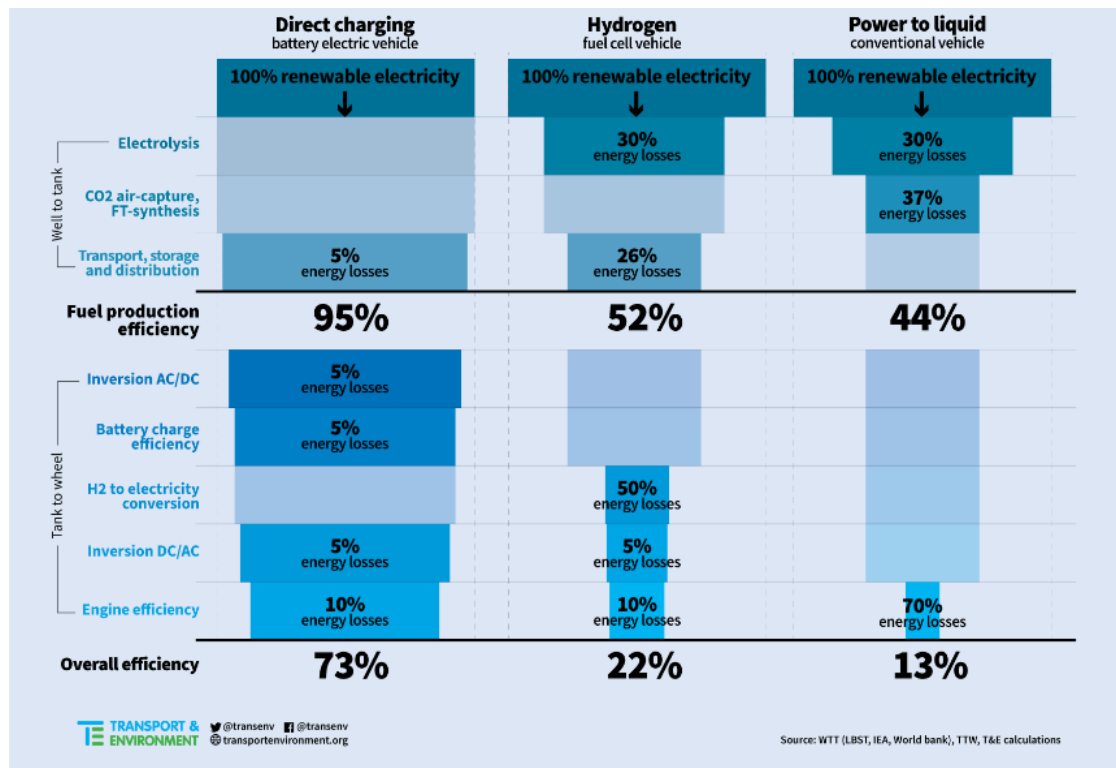
Source: Transport & Environment from Member States' reporting to the UNFCCC (1990-2015 data) and EEA's approximated EU greenhouse gas inventory (2016 data)

Vehicles are the dominant source of CO2-Emissions.

72% of European surface transport emissions were from cars and vans in 2015



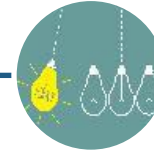
Battery electric vehicles most efficient



Electric vehicles: room for improvement



Improved
mineral
sourcing



Materials
innovation



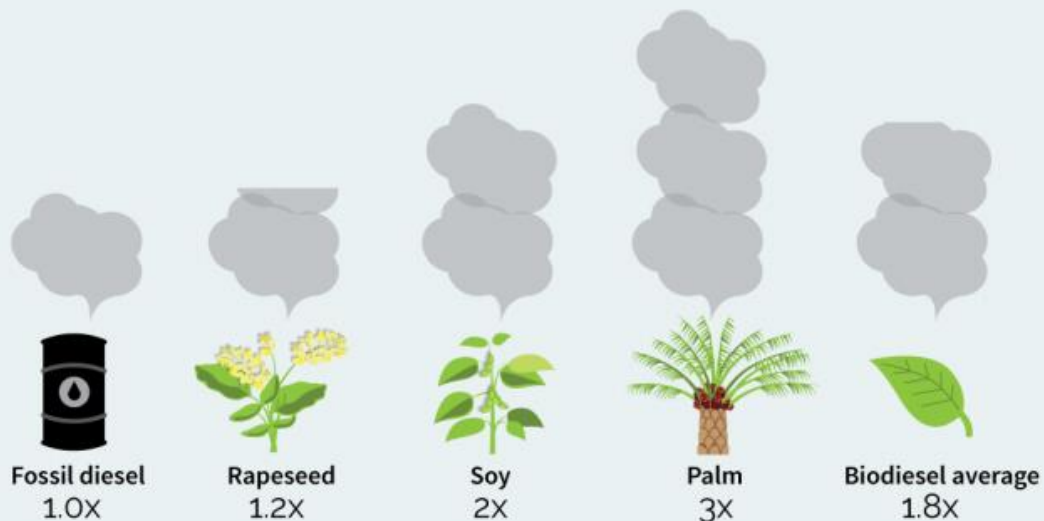
Battery
Second
life



Recycling

Biodiesel: cure worse than the disease













Fossil diesel emissions vs first-generation biodiesel



Globiom forecasts these biodiesels will account for 57% of the total EU biofuels market in 2020

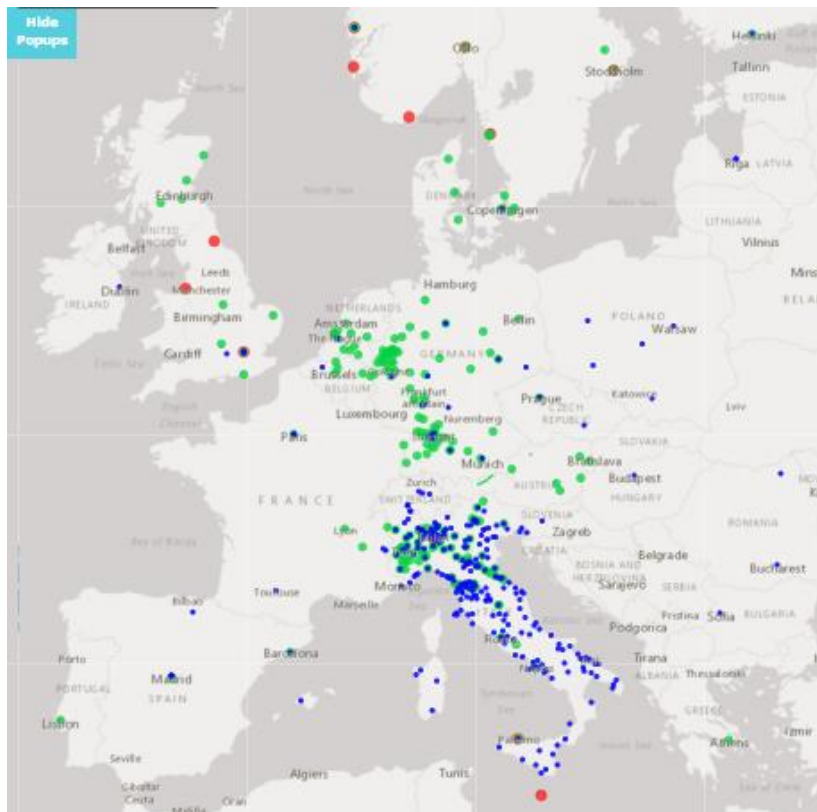
Source: Lifecycle analysis by T&E based on Globiom study (2016)

Personal mobility must be transformed in many ways

	Car dominated	Large & heavy	Engine powered by oil	Largely owned	Taxes on fuel	Driven & dumb
2015						
	Co-modal	Rightsized -smaller & lighter	Electric motors	Mainly accessed	Charges on use	Connected & driveless
2040						

Transforming mobility

- Transport is NOT an end in itself
- As with other resources, we should aim for as little transport as possible, as much as necessary
- Main objective is reducing demand for transport, then modal shift and then increasing efficiency



More than 250 schemes controlling vehicle urban access in operation in the EU

- Charging
- Low Emissions Zone
- Urban Vehicle Access Restriction

<http://urbanaccessregulations.eu/userhome/map>

Key Messages

- Transport is Europe's biggest climate offender
- The future mobility is electric and a lot more than cars
- The electricity needs to be renewable
- Therefore, we need to reduce the transport demand, not just think in technological innovation
- The needed shift in mobility needs effort from all players, cities and businesses play a major role

Don't
forget the
active
modes

Don't
forget the
people





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