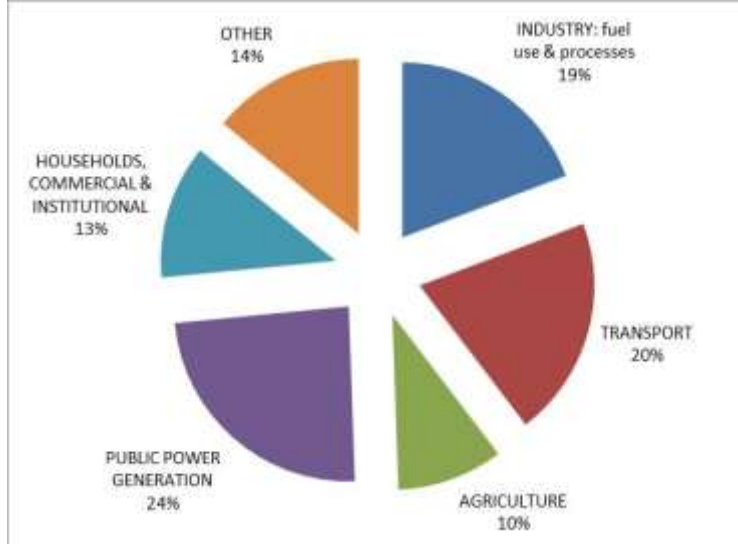


THE ROLE OF LIGHT DUTY VEHICLES IN ACHIEVING EMISSIONS REDUCTIONS

Kris Vanherle

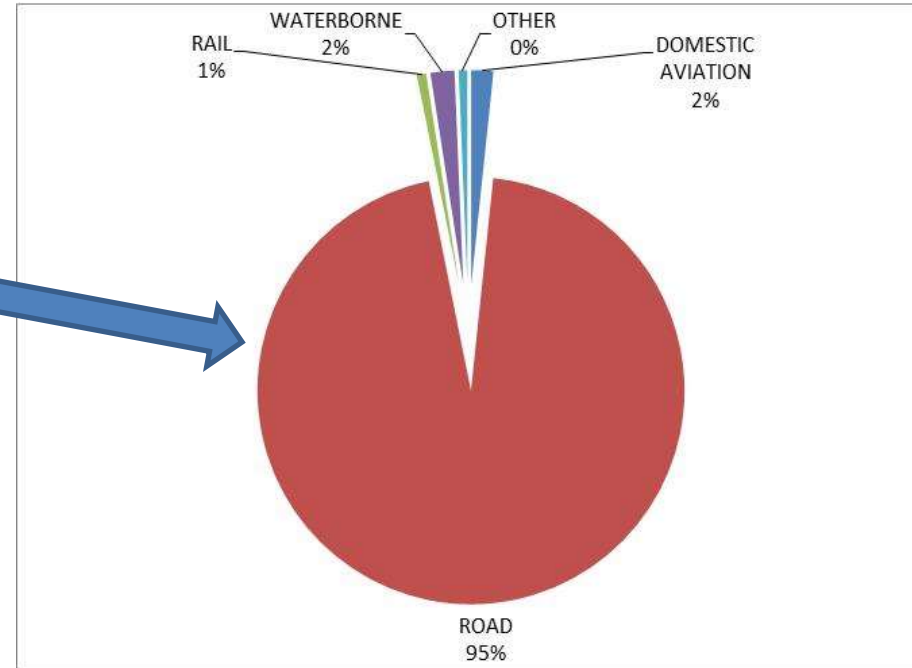
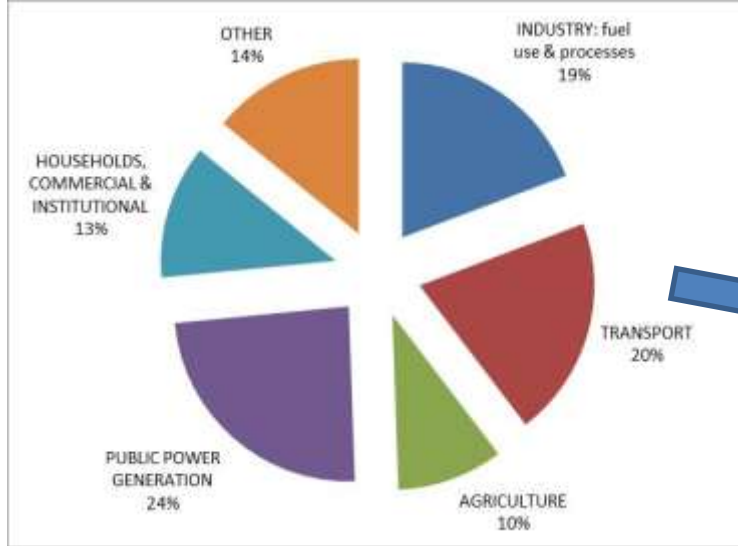


Relevance - Share of LDV emissions in EU



Source: EEA

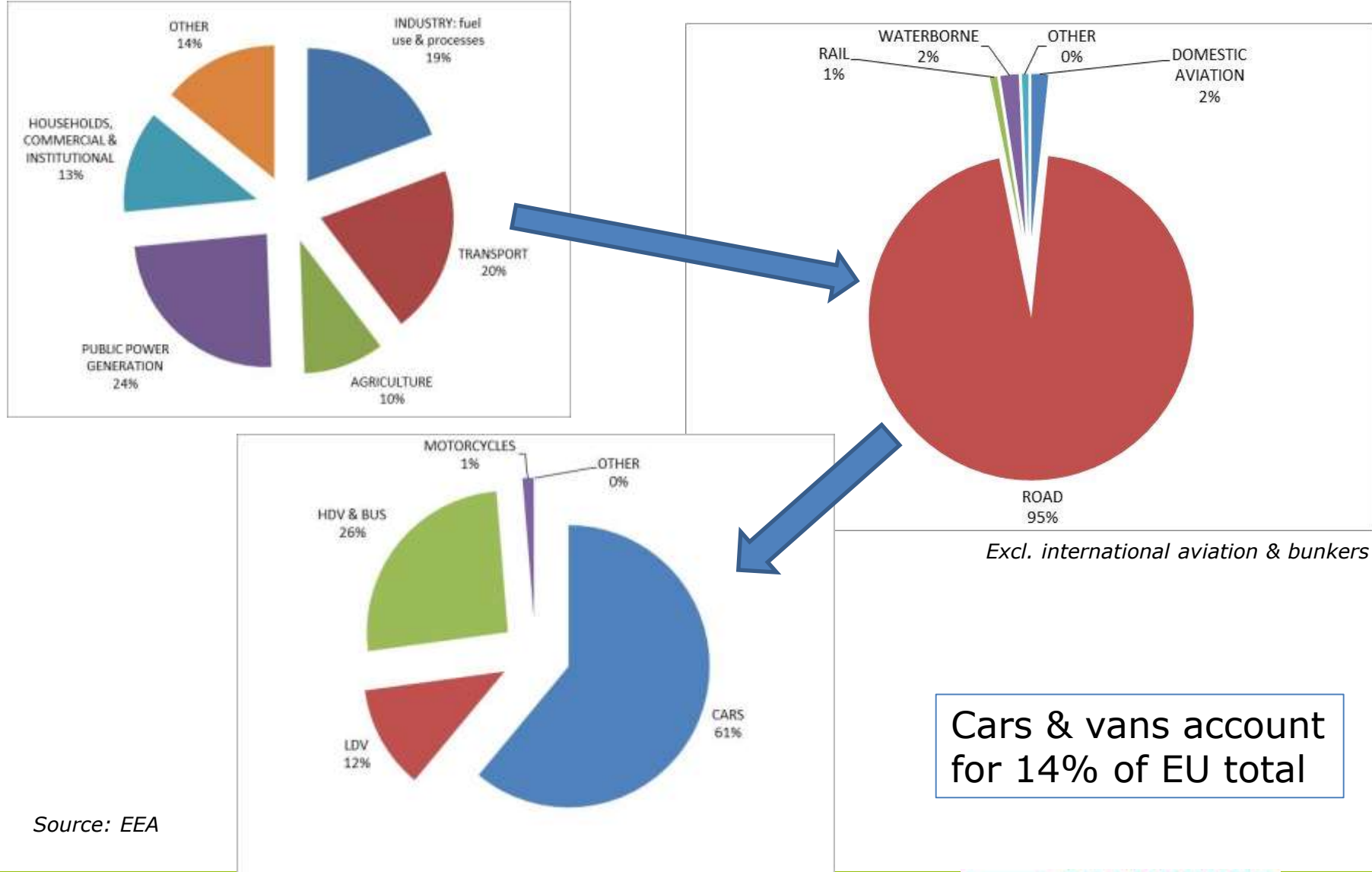
Relevance - Share of LDV emissions in EU



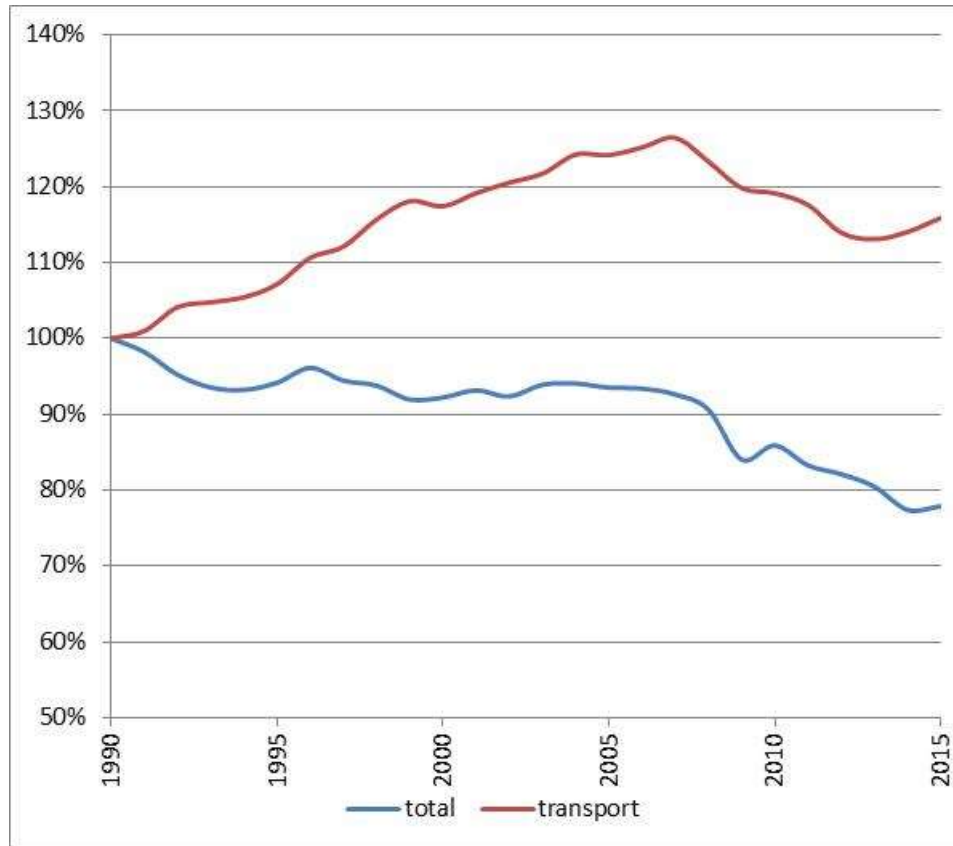
Excl. international aviation & bunkers

Source: EEA

Relevance - Share of LDV emissions in EU



Trends

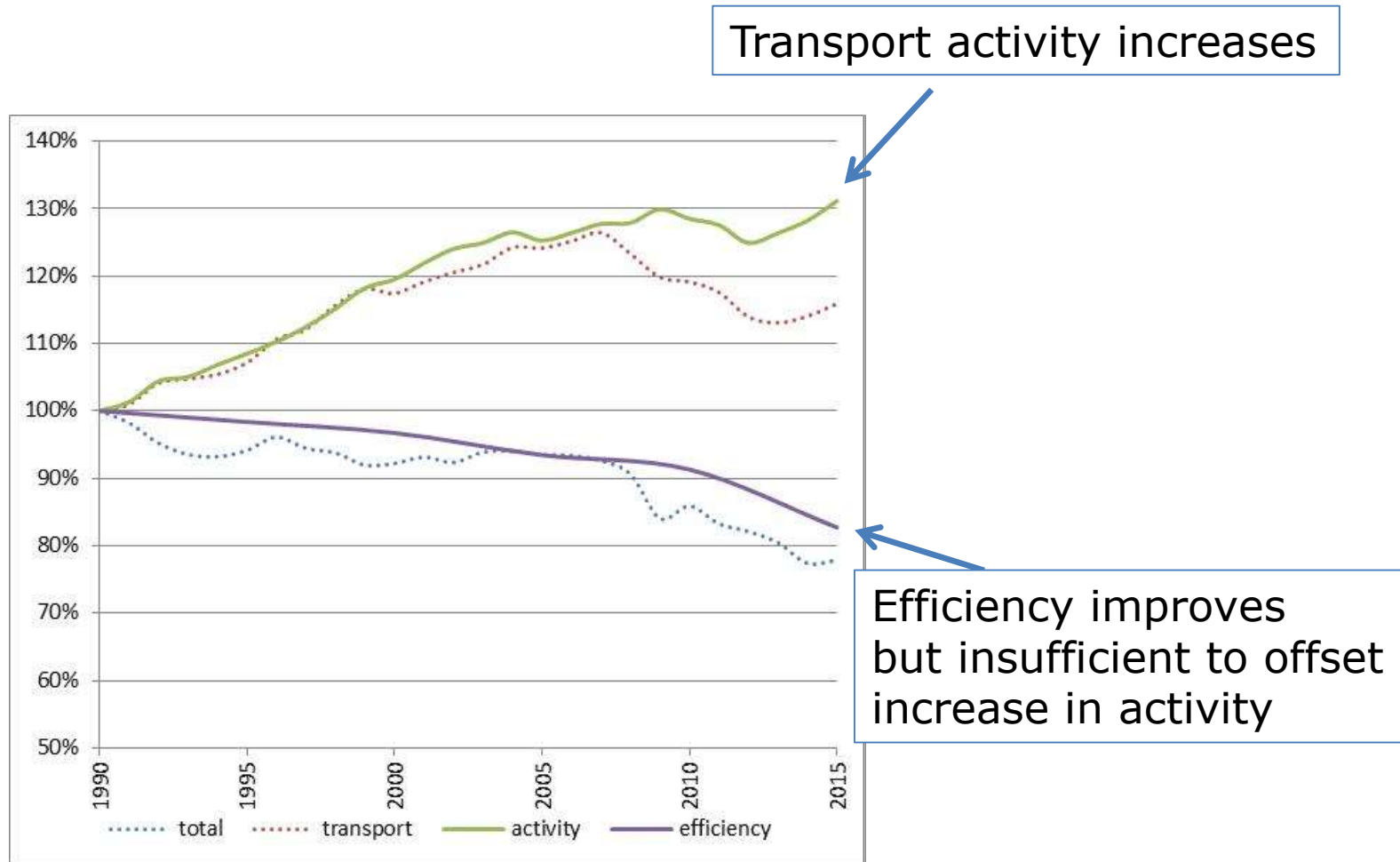


Transport emissions increase

Total emissions decrease

Source: MOVEET model (TML)

Trends



Source: MOVEET model (TML)

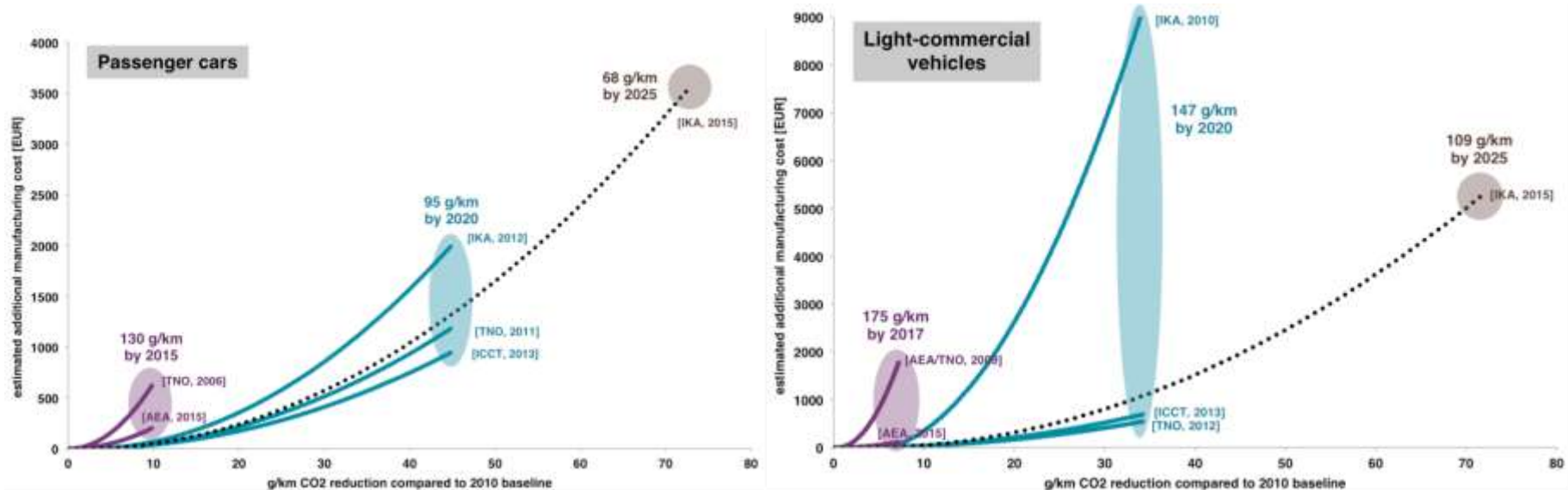
Legislative efforts - history

Vehicle fuel efficiency standards

- 1998: Voluntary ACEA agreement: 140gr/km in 2008 – **not achieved** (153.7g/km in 2008)
- 2009: First binding targets for cars: 130gr/km phased in between 2012 to 2015 – **achieved**
- 2011: binding targets for vans: 175gr/km by 2017 – **achieved**
- 2014: updated targets:
 - Cars: 95g/km by 2021
 - Vans: 147g/km by 2020

At what cost?

- Purchase cost ↗
- Fuel cost ↘
- Net...

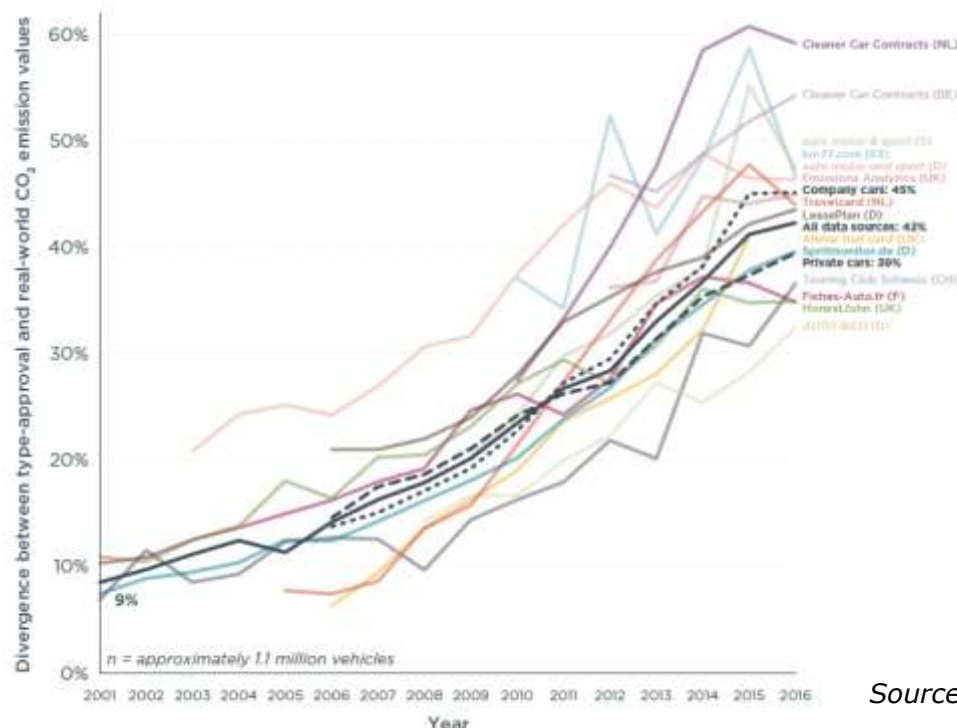


Source: ICCT

Future – EC proposal November 2017

Objective: -30% in 2030 compared to 2021

- Maintain 95g/km standard
- “True compliance”: NEDC → WLTP



Future – EC proposal November 2017

Objective: -30% in 2030 compared to 2021

- Maintain 95g/km standard
- “True compliance”: NEDC → WLTP
- Gradual percentage reductions compared to 2021 target
- Zero (0gr)- and low(<50g)-emission vehicles target 15% in 2025 and 30% in 2030

Step change vs. breakthrough

- 2000-now: incremental improvement of the conventional diesel/gasoline cars
- Past few years: gradual penetration of electric vehicles, plug-in hybrids
- Future: to achieve further CO2 emission reductions in road transport, uptake of zero- and low-emissions is key