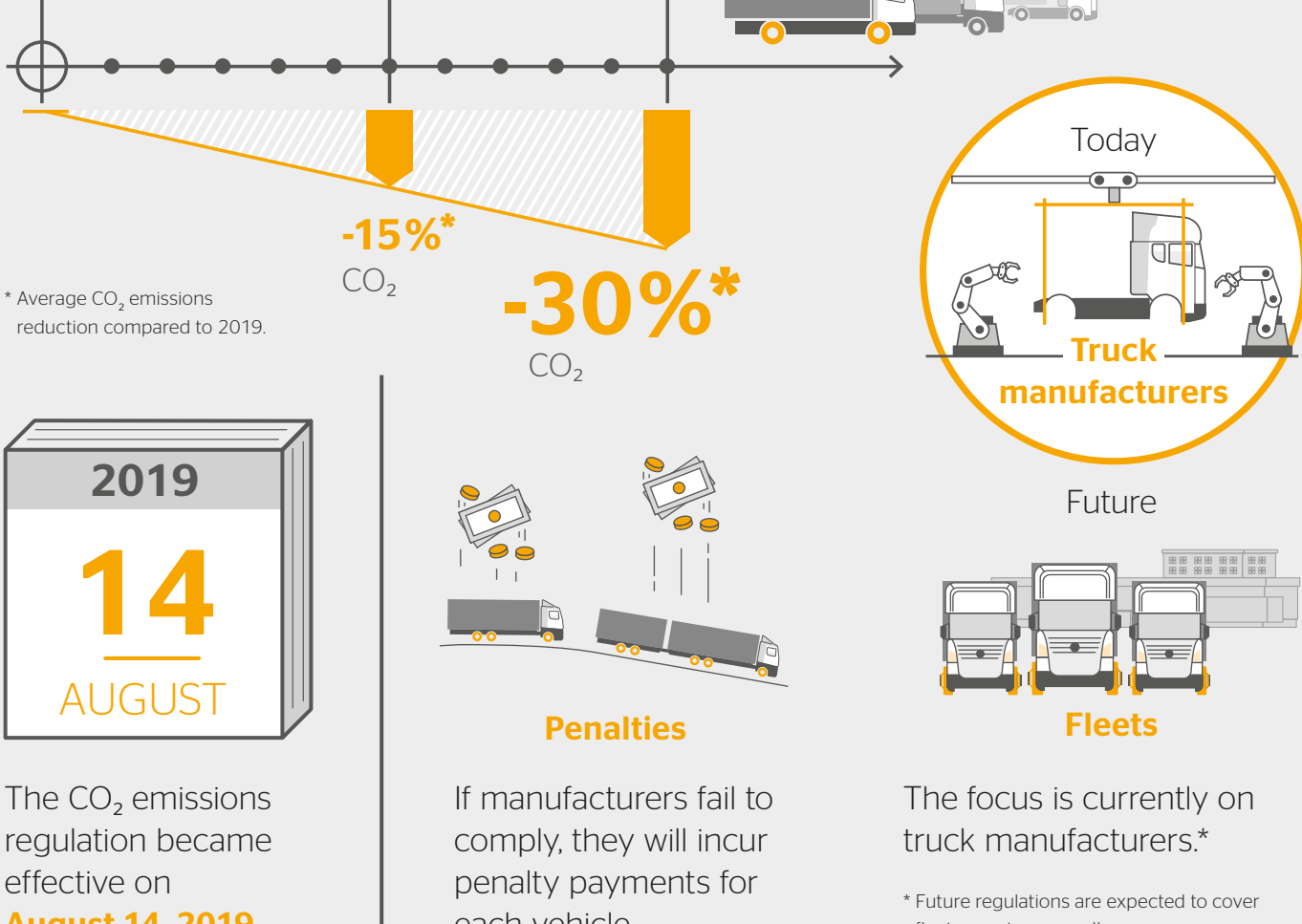


# VECTO & THE NEW HEAVY-DUTY VEHICLES CO<sub>2</sub> EMISSIONS REGULATION

## What is new?

The EU has introduced new regulations for truck manufacturers.

These will mean cutting average CO<sub>2</sub> emissions from new heavy-duty vehicles by 15% by 2025 and by 30% by 2030.



**2019**  
**14**  
AUGUST

The CO<sub>2</sub> emissions regulation became effective on **August 14, 2019.**

**Penalties**

If manufacturers fail to comply, they will incur penalty payments for each vehicle.

## Which vehicles are affected?

**January 2019\***

Large trucks (rigid and tractor) with a 4x2 and 6x2 axle configuration and a GVW > 16t.

**July 2020\*\***

Vehicles (rigid and tractor) with a 6x4 and 8x4 axle configuration (all weights).

**January 2020\*\***

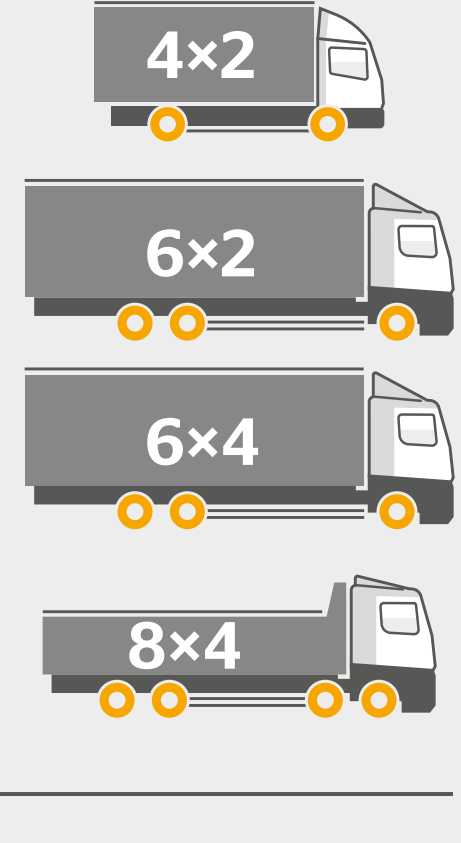
Vehicles (rigid and tractor) with a GVW > 7.5t.

Extended regulations will affect further vehicle configurations and trailers in the future.

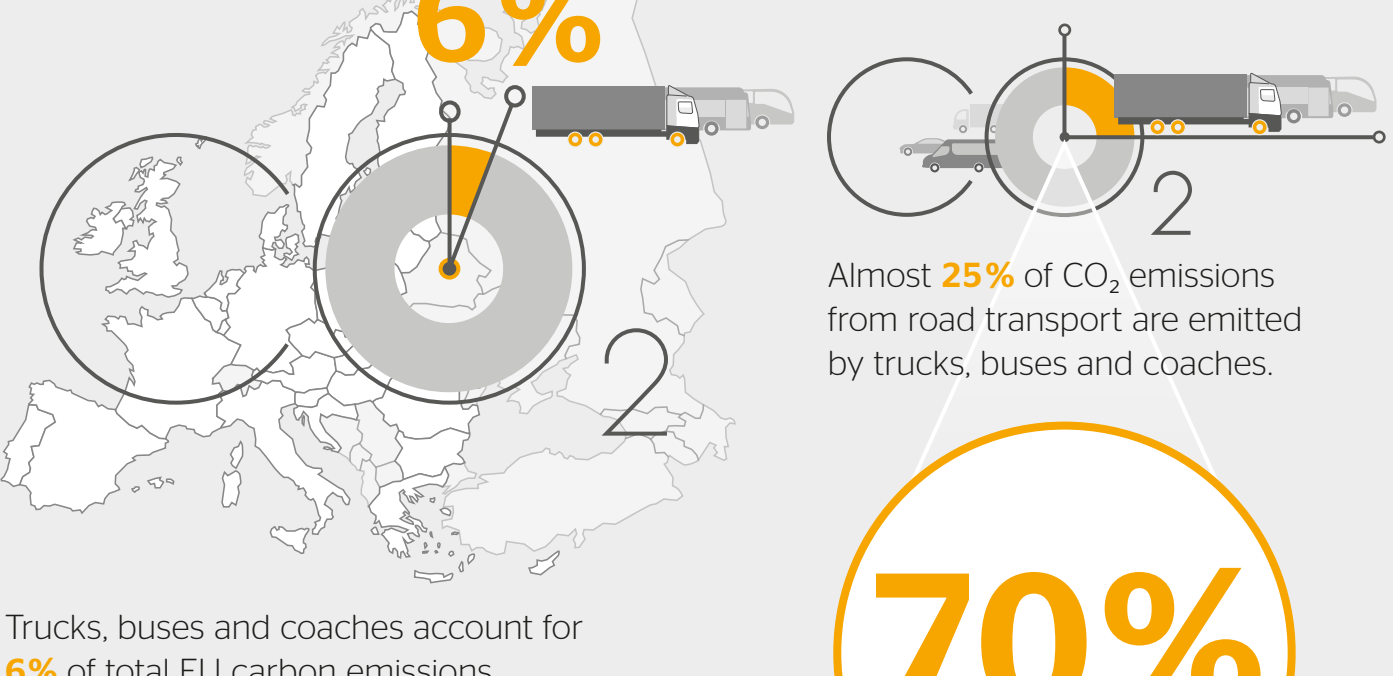
\* HDV CO<sub>2</sub> regulation (EU 2019/1242) & VECTO regulation (EU 2017/2400)

\*\* VECTO regulation (EU 2017/2400)

Vehicle groups 1, 2, 3, 4, 5, 9, 10, 11, 12 and 16.



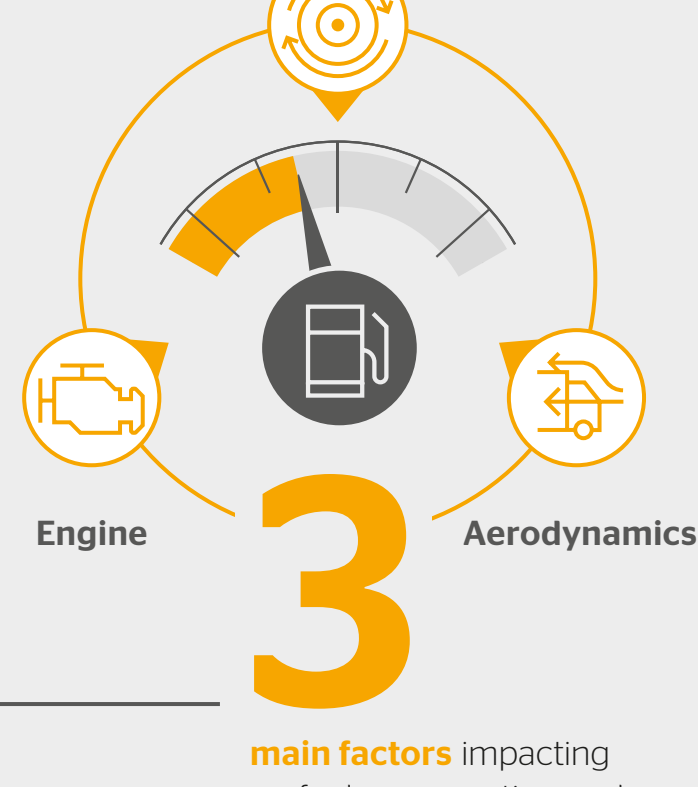
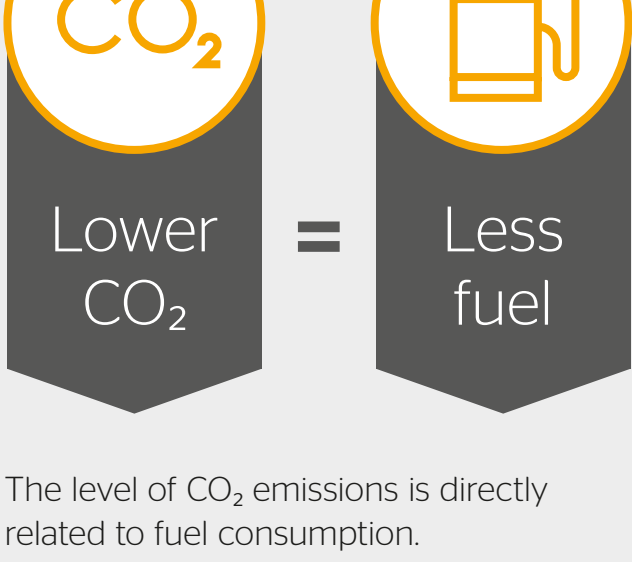
## Why is this so important?



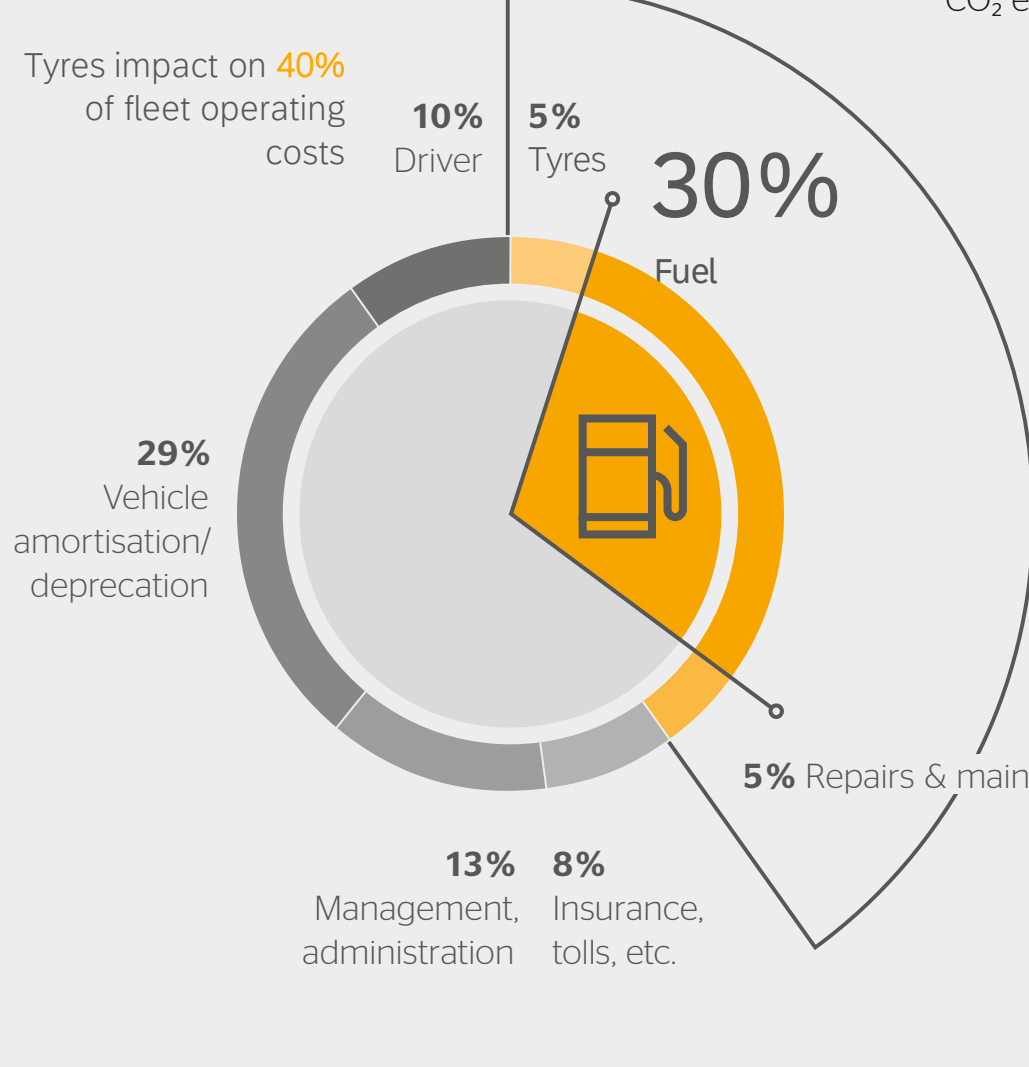
CO<sub>2</sub> emissions will keep rising dramatically as volumes of road freight continue to increase.



## CO<sub>2</sub> emissions & fuel consumption



## Fleet operating costs



## What is VECTO?

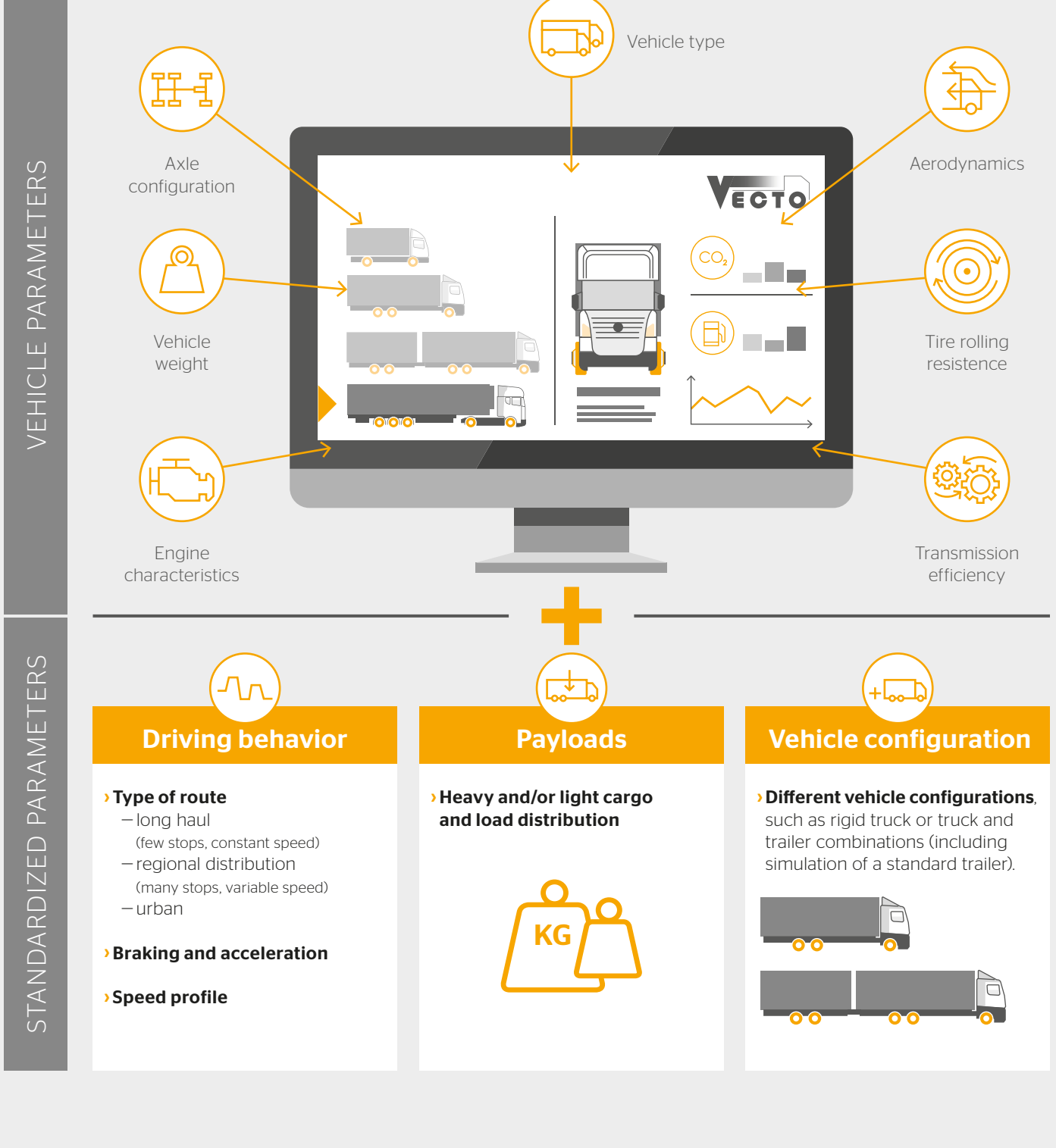


**VECTO** is a mandatory, digital simulation tool that has been developed by the EU to ensure that the CO<sub>2</sub> emissions reduction targets are met.

Vehicle Energy Consumption Calculation Tool

With VECTO, vehicle manufacturers can simulate the CO<sub>2</sub> emissions and fuel consumption of individual vehicle configurations.

As inputs, the tool uses a number of parameters:



## Fleet operators will benefit from:

- ✓ Easy comparison of different vehicles
- ✓ Greater transparency on fuel consumption and CO<sub>2</sub> emissions of different vehicle configurations when purchasing new trucks
- ✓ Positive impact on the fuel efficiency of the entire fleet



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