

# VECTO

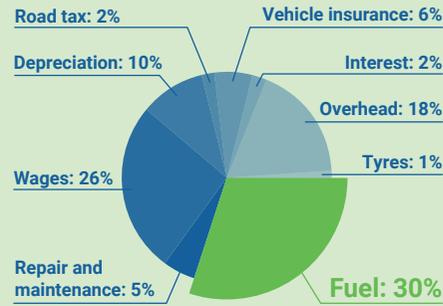
**Bringing down CO2 emissions and fuel costs of heavy-duty vehicles** by promoting transparency, vehicle comparability and competition





## CUSTOMER NEEDS

- 1 Every transport operator **has different needs or a different mission in mind for a truck.**
- 2 Unlike cars, most trucks are **custom-built in order to meet these specific requirements**; from the cab and the number of axles, to the engine, the body, or even the height of the chassis.
- 3 That's why trucks literally come in **thousands of different sizes and shapes.**
- 4 The same goes for vehicle combinations: one truck or tractor unit may end up **pulling very different trailers.**
- 5 **All these variables affect the fuel consumption and CO2 emissions** of a truck or vehicle combination.
- 6 Fuel consumption is key for end-users: **fuel represents around 30% of their running costs.**
- 7 So in order to buy the right vehicle (the one most suitable for the intended purpose) and to be competitive, transport operators want to be able to **make a well-informed purchase decision.**



## MANUFACTURERS' INPUT

At the same time, manufacturers want to advise customers when buying a new truck.

That is why **manufacturers perform precise measurements** (following certified procedures in accordance with EU type approval) of all **key components that influence the CO2 emissions and fuel consumption** of their vehicles, such as:



Engine performance  
(load/speed)



Tyre rolling  
resistance



Aerodynamic  
drag



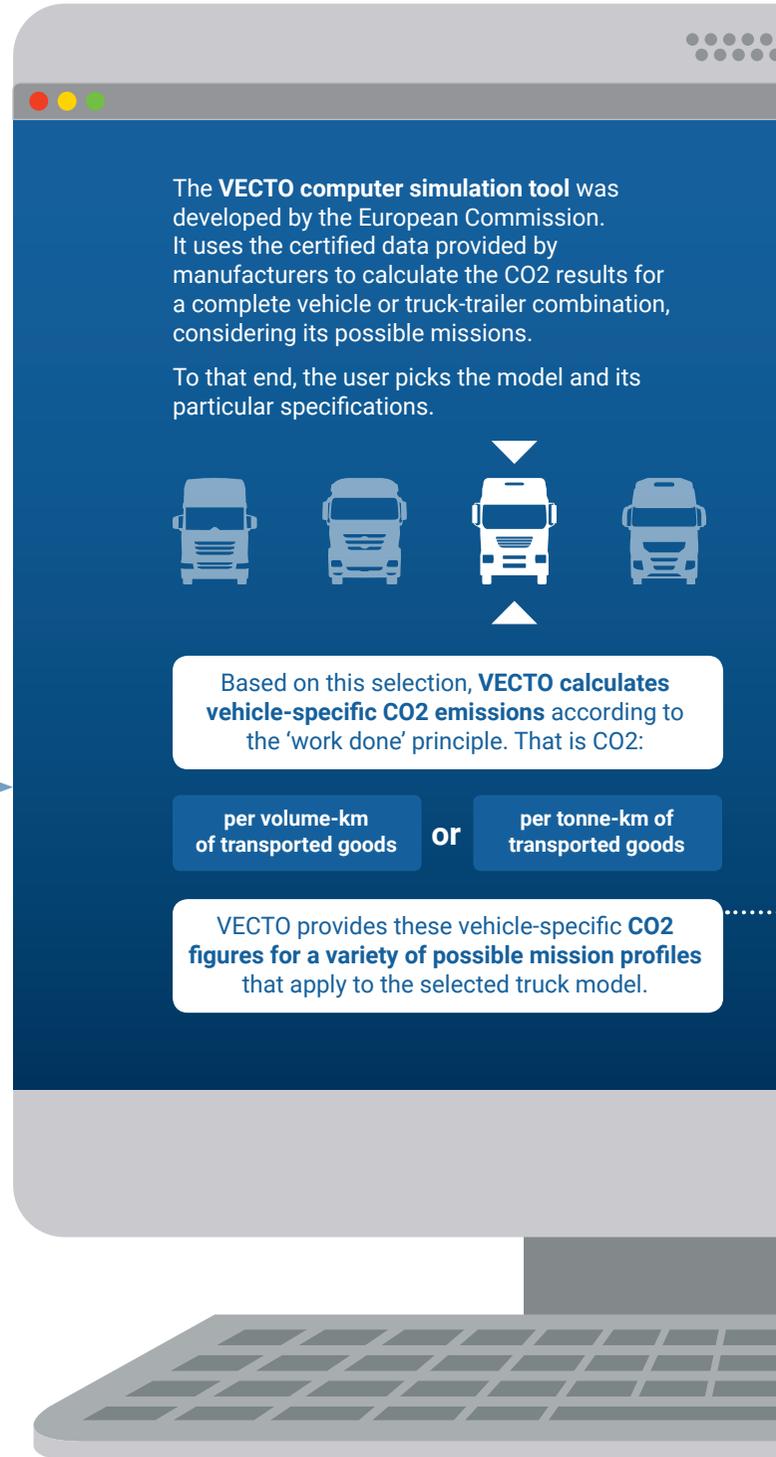
Efficiency  
of axles



Efficiency  
of transmission

Manufacturers will input these type-approved data, together with other vehicle information such as weight, into the **VECTO tool to run vehicle-specific simulations.**

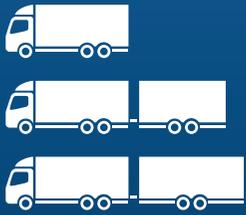
For the first time, there is a **level-playing field to compare the fuel consumption of heavy-duty vehicles** because all data are certified according to the same processes, regardless of the manufacturer.



**A** Different **usage patterns**, for example:



**B** Various **vehicle configurations**, such as a rigid truck or combinations with a trailer.



**C** Different payloads, ie **heavy** or **light** cargo.



## CUSTOMER BENEFITS

- 1** VECTO gives customers **transparent and reliable fuel consumption information**.
- 2** VECTO allows customers to **compare the CO2 and fuel efficiency performance** of vehicles from different manufacturers.

This means that transport operators can **choose the most fuel-efficient vehicle** more easily, helping them to lower the cost of running a fleet.

- 3** The customer receives certified CO2 values for each truck purchased.

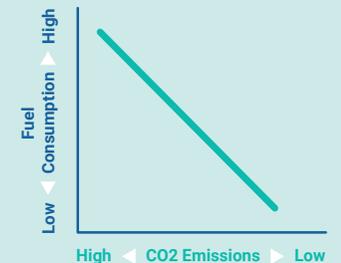


## SOCIETAL BENEFITS

When it comes to society at large:

- 1** VECTO **stimulates innovation and competition** among manufacturers to develop the most fuel-efficient vehicles. After all, **end-users will be able to compare the offerings** of different manufacturers by using VECTO results.
- 2** VECTO provides a credible, **standardised way of comparing fuel efficiency**. It will also give a clear picture of progress in reducing CO2 emissions from trucks.

Hence, VECTO ensures that the most fuel-efficient vehicle combinations are brought onto the market, thereby **significantly reducing CO2 emissions** from trucks.





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