

# **IEA Transport Decarbonisation Workshop**

18 November 2019  
Dorothee Lahaussois  
Toyota Motor Europe

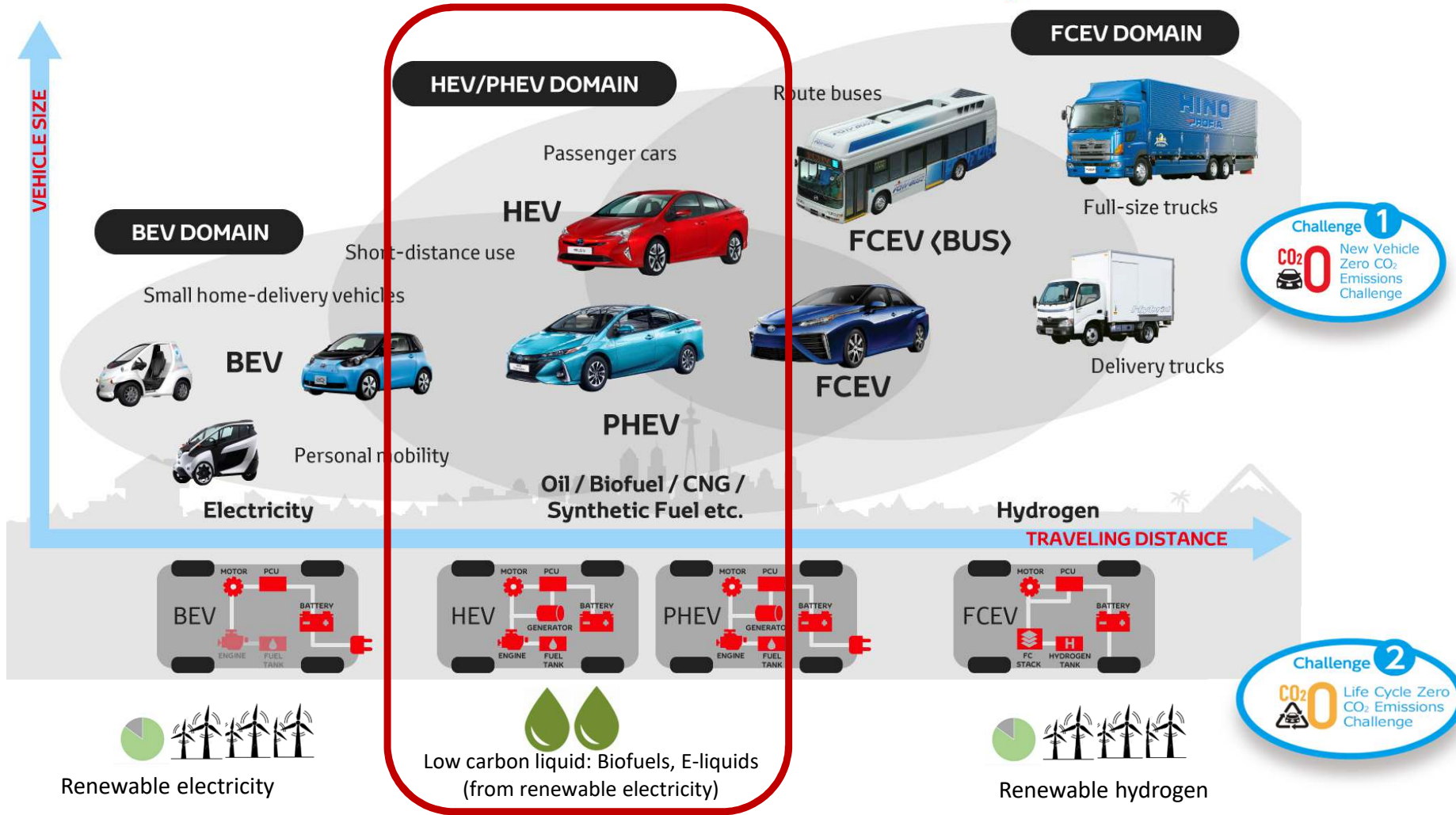
**TOYOTA**

# Toyota believes in different mobility needs

## Roadmap towards sustainable mobility

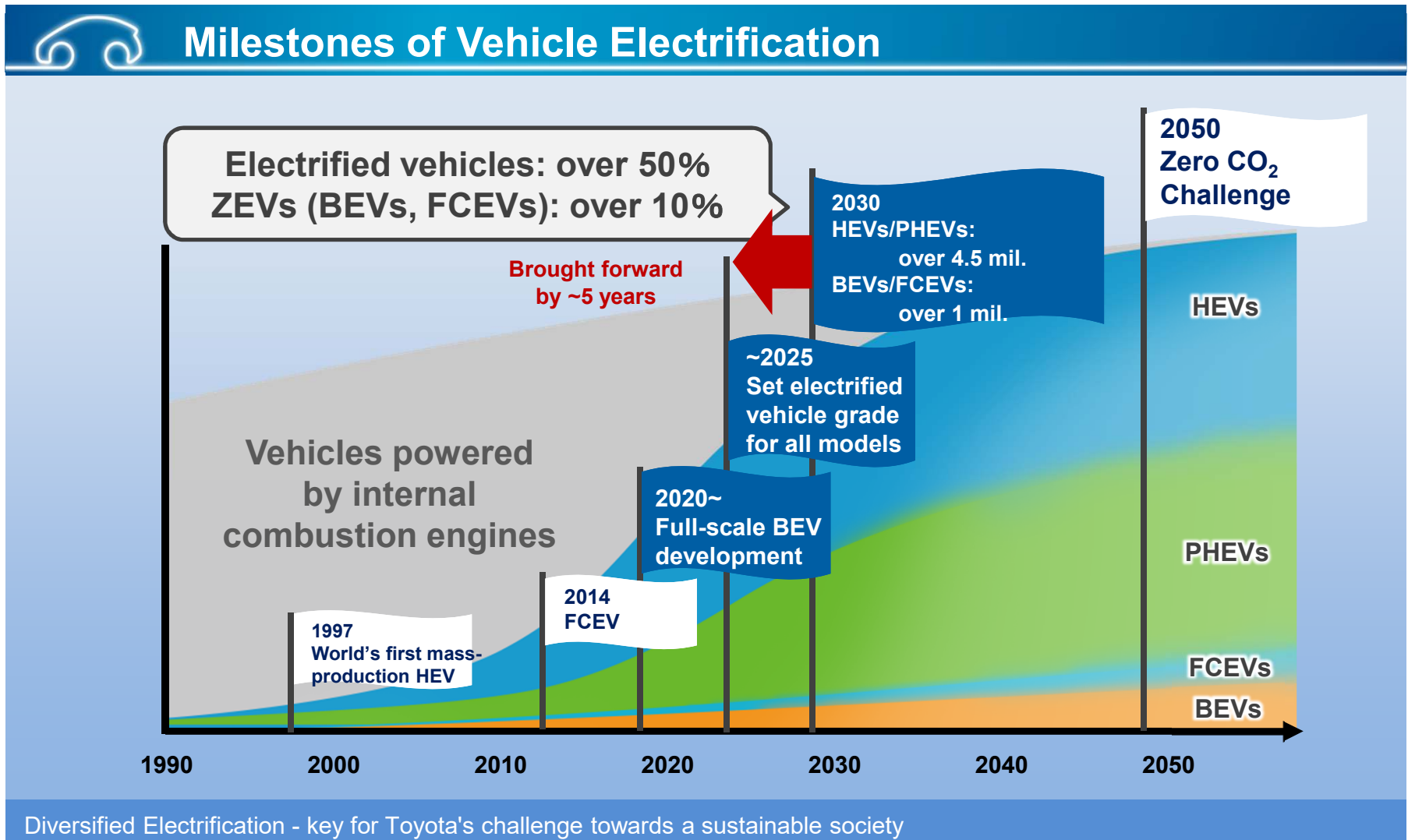
TTW

WTT



# Toyota announced acceleration of electrification

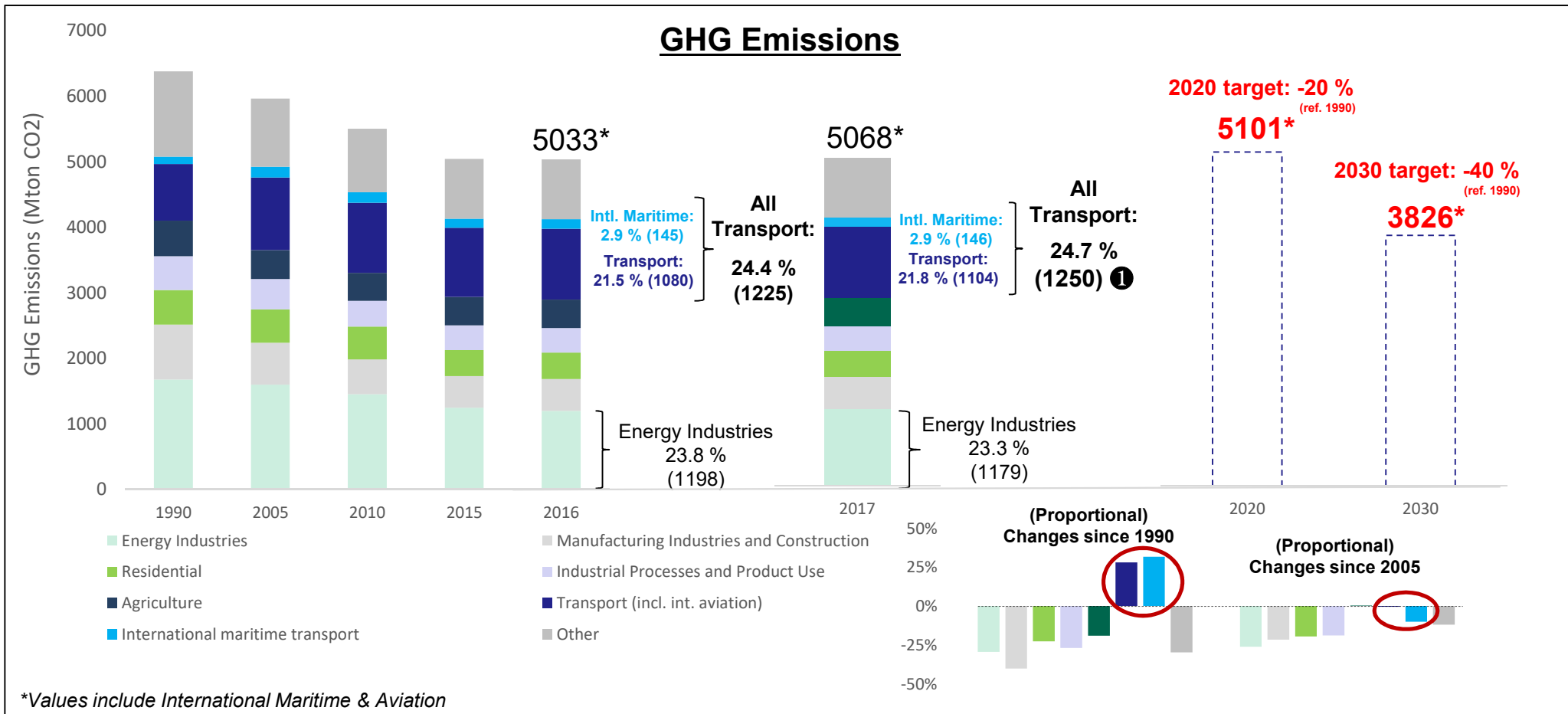
By 2025: 4.5 million HEVs/PHEVs and 1 million BEVs/FCEVs



# GHG emissions per sector

## Emissions from EU Transport Sector behind target

- **Transport is only sector to increase emissions 1990-2017**, going from 973 Mton (15.6%) to 1 250 Mton ①
- GHG Increasing since 2013; on its way to becoming #1 emitting sector in EU

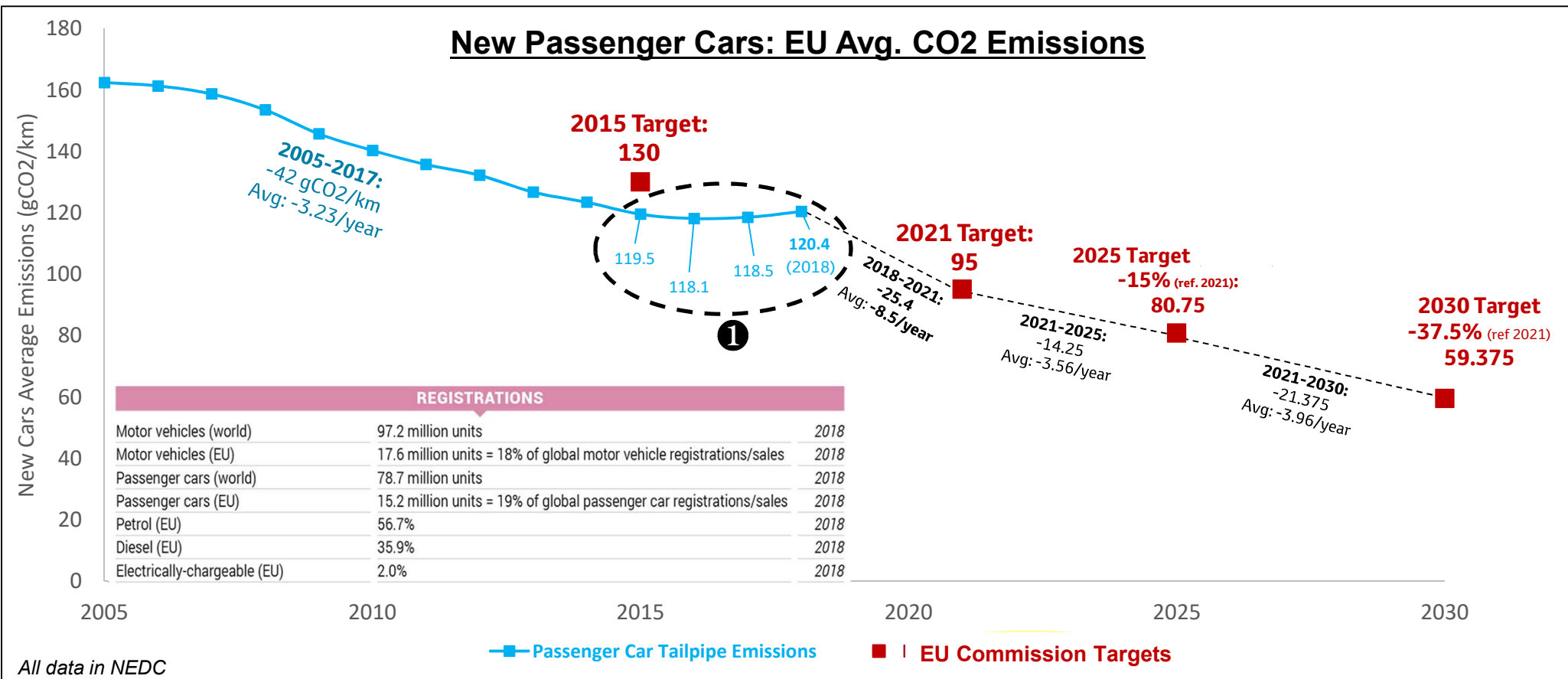


Source: Eurostat

# EU policy trends: CO2 new cars increasing

Not on track for 2021. 2025 & 2030 target require significant xEVs in mix

- Difficulty in reaching 2021 new car gCO2/km targets
- 2017 & 2018 increases again ❶, largely because of switch from diesel to larger gasoline and the slow uptake of xEVs.

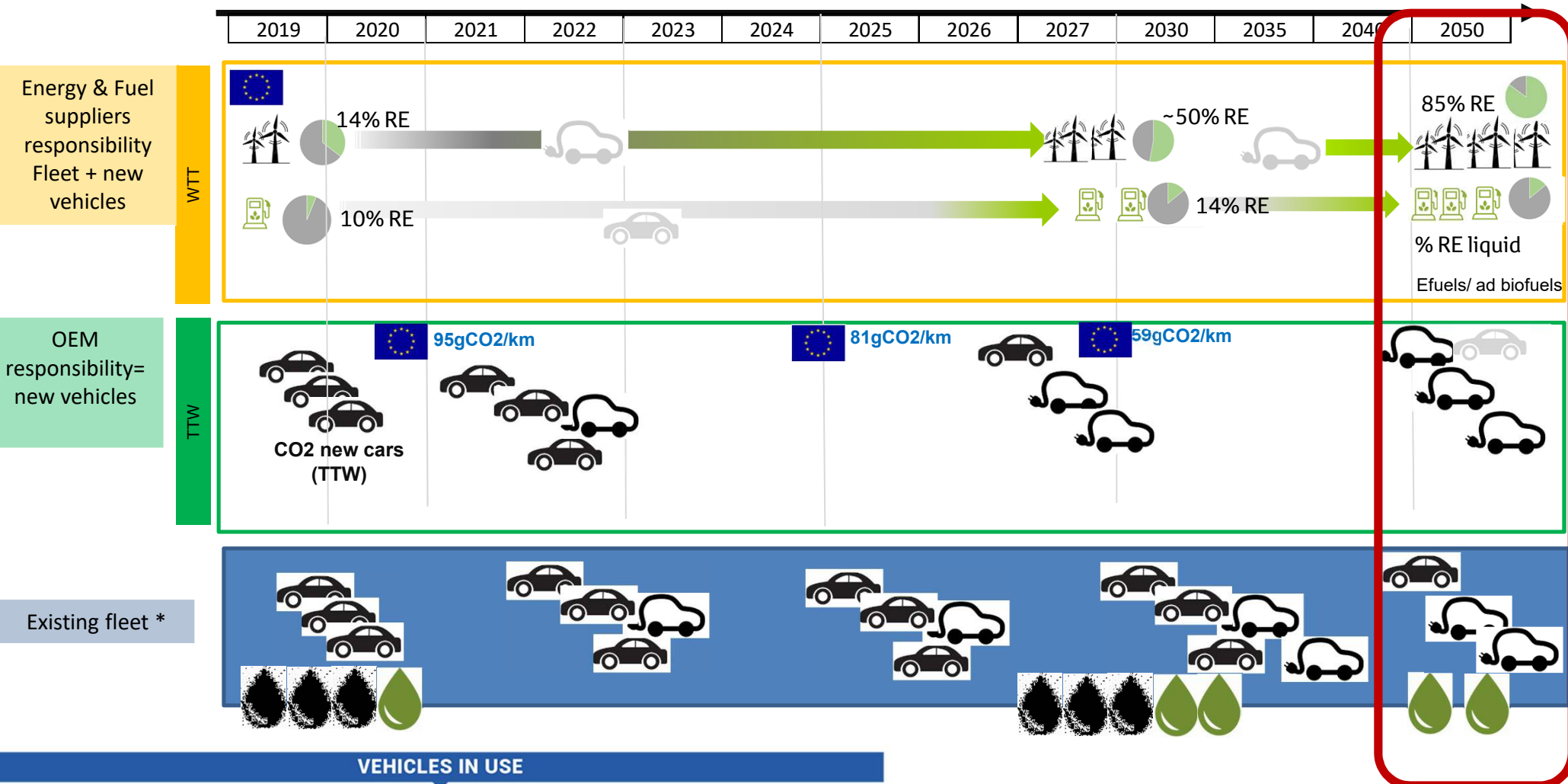


All data in NEDC

Source: EEA, EU Commission

# Fuels & powertrain to reduce transport GHG footprint

Importance of legacy car park for liquid fuels substitutes. Decarbonisation of all fuels required



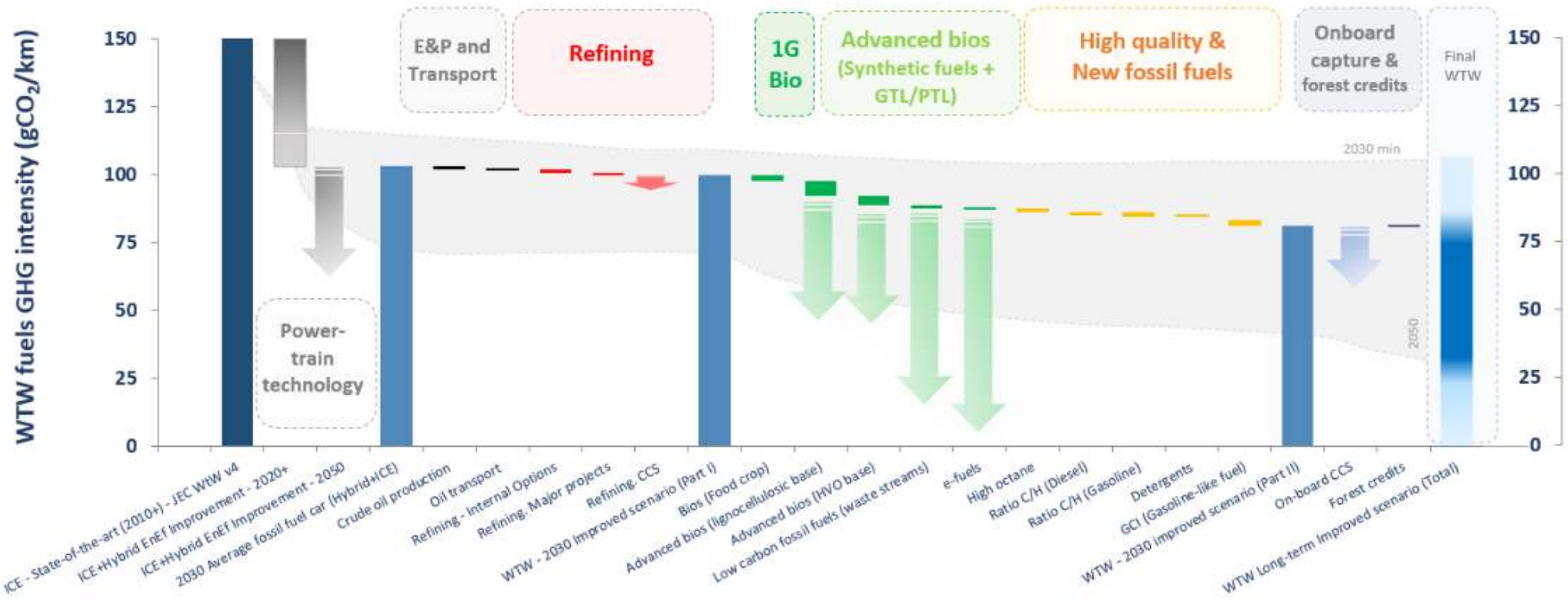
VEHICLES IN USE		
Motor vehicles (EU)	308.3 million units	2017
Passenger cars (EU)	268.0 million units	2017
Motorisation rate (EU)	602 vehicles per 1,000 inhabitants	2017
Average age of cars (EU)	11.1 years	2017

\* Qualitative image

# Potential for renewable liquid fuels & ICE

EU oil industry published decarbonisation strategy to 2050.

Concawe Low Carbon Pathways 2050 for Liquid fuels & ICE  
(WTW Passenger cars C seg)



Source: Concawe  
[https://www.concawe.eu/wp-content/uploads/2018/04/Working-plan\\_Low-Carbon-Pathways.pdf](https://www.concawe.eu/wp-content/uploads/2018/04/Working-plan_Low-Carbon-Pathways.pdf)