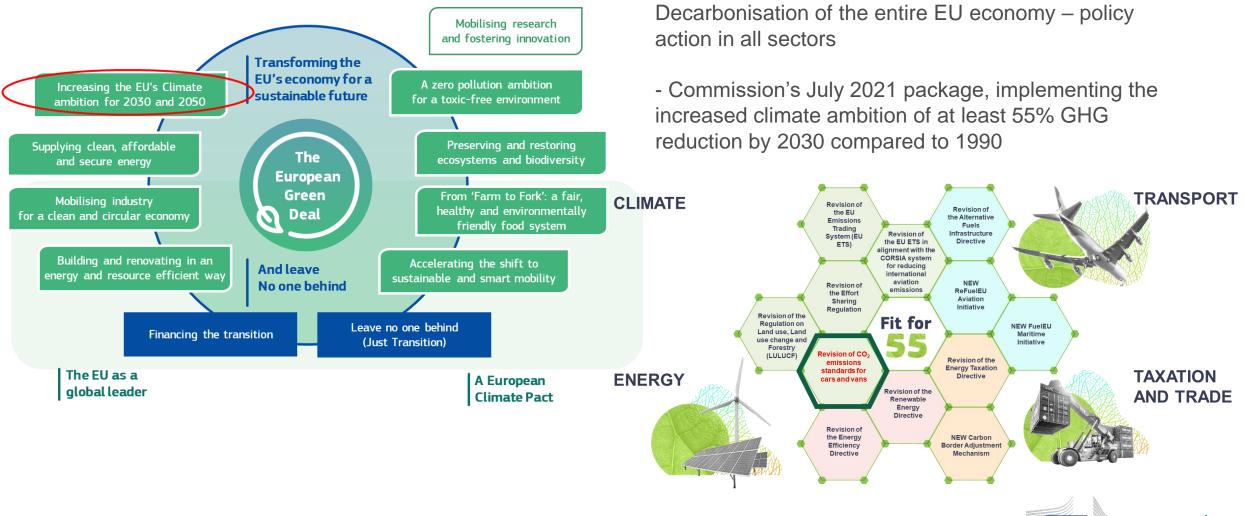


### Vehicle LCA activities in the EC

#### **GRPE Workshop on carbon LCA of vehicles**

31 May 2022

### **The European Green Deal**



European Commission

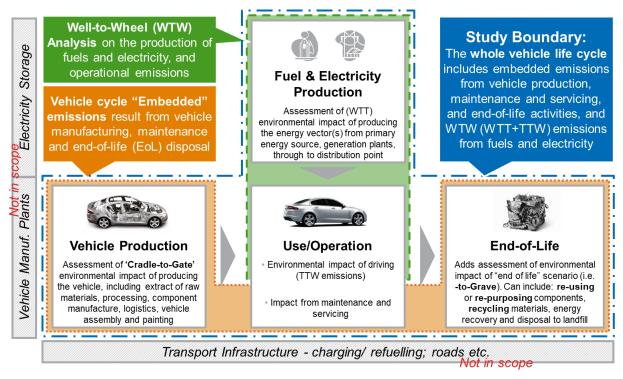
### Vehicle LCA related activities in the EC

- CO<sub>2</sub> performance standards for light duty vehicles and for heavy duty vehicles
  - Mandate the Commission to evaluate by 2023 the possibility of developing a common Union methodology for the assessment and the consistent data reporting of the life-cycle CO<sub>2</sub> emissions
  - <u>Study</u> on determining environmental impacts of conventional and alternatively fuelled vehicles through LCA (2020)
  - CO2 standards are currently under revision, in line with the increased EU climate ambition

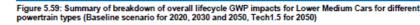
- EU funded projects (Horizon Europe) <u>2ZERO partnership</u>
- Joint Research Centre work JEC activities

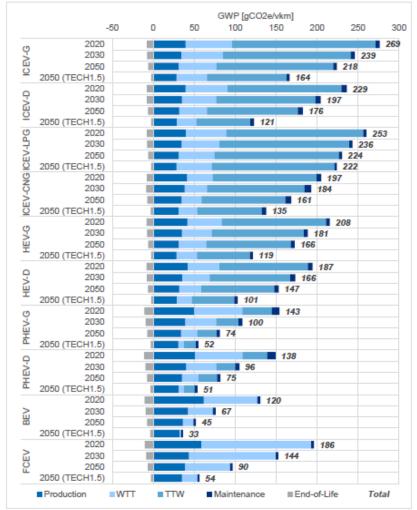


## Study on determining the environmental impacts of conventional and alternatively fuelled vehicles through LCA



- Developing a vehicle policy LCA is a highly complex process, requiring a vast amount of data and implies a number of key assumptions and methodological decisions
- Caution is needed when comparing results from different studies – e.g. different analytical boundaries, different data sources, different specific data processing choices
- No "definitive" results on the environmental impacts of different vehicles





Notes: Production = production of raw materials, manufacturing of components and vehicle assembly; WTT = fue/lelectricity production cycle; TTW = impacts due to emissions from the vehicle during operational use; Maintenance = impacts from replacement parts and consumables; End-of-Life = impacts/credits from collection, recycling, energy recovery and disposal of vehicles and batteries.

# Thank you

