

**European Association of Automotive Suppliers** 

CoRAI Automotive Intergroup Conference "Going green! A slippery road for automotive jobs, skills and funding?"

*Sigrid de Vries CLEPA Secretary General Online, 25 November 2021* 

### **EUROPEAN SUPPLIERS AT A GLANCE**

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## ± 9.000

Patents filed by the automotive industry each year



# €30 bn

Invested in R&D each year, 30% of the private sector R&D investment in the EU



National associations and 14 associated members within CLEPA

**CLEPA** represents over 3.000 companies

producing the on

€ 600 bn

Turn over each year

average 30.000 parts composing a vehicle 🕮

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## THE FUTURE OF MOBILITY IS NOW



- Megatrends: digital and green
- Magnitude of the transformation is unprecedented
- Challenges require decisive & concerted action



## **SECURING MOBILITY FOR ALL**

Transport has an important societal role to play, we need to guarantee that the future will provide mobility that is:

Accessible	Affordable
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## **GREEN DEAL**?

## **CLEPA'S VISION:**



### Let's make it work together!



Supportive and reliable regulatory framework



Transformation, not disruption



Focus on research, innovation, investment and employment



Holistic approach





## **TECHNOLOGY SOLUTIONS**

**Different Transport Requirements Need A Powertrain Mix** 



Mission profile > battery size > battery cost and weight > infrastructure investment > effect on environmental footprint







# Ban fossil fuels, not the internal combustion engine

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### **RECOGNISING RENEWABLE FUELS**

Weaknesses of the current proposal for CO2 emission standards

- The current proposal does not value the contribution of the sustainable and renewable fuels putting at risk the capital intensive investments that are needed
- Does not address the **transitional phase** of the decarbonisation path towards the climate neutrality (in particular, the decarbonisation of the **existing fleet**, the role of the **PHEVs**)
- Societal implications and are not taken into account





The internal combustion engine is climate neutral when powered with sustainable renewable fuels.

## **RECOGNISING SUSTAINABLE RENEWABLE FUELS**



An overview of the crediting scheme



1 RE fuel production

- 2 RE fuels are supplied to final customers (often as a "blend")
- 3 Credits are issued and entered into national and Union database
- OEM buys credits from fuel suppliers, this is reported to the RE fuel database – accounting separation to prevent double counting
- OEM requests crediting against fleet target responsible authority verifies the validity of credits
- 6 Equivalent CO2 reduction amount is deducted from the initial emission value

## **RECOGNISING SUSTAINABLE RENEWABLE FUELS**

#### The crediting scheme benefits

Consumers — Contributes to affordability of mobility

Industrial scale — The automotive industry has the capacity to invest and scale up production of renewable fuels

**Safety net** — Allows choice for use cases where electrification is not (yet) the best solution

**Level playing field** — Shifts the focus from banning technology to removing fossil fuels

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**Faster and more efficient** — Renewable fuels reduce emissions from the existing fleet, no need to wait for fleet renewal.

**BEYOND SILOS APPROACH** - Create links between legislative tool for more efficiency

Further reading on the functioning of the crediting system <u>https://www.crediting-system-for-</u> <u>renewable-fuels.eu/</u>





# Electric Vehicle Transition Impact Assessment: Study on Workforce of European Automotive Suppliers

Study by PwC Strategy& commissioned by CLEPA

## SUCCESS STARTS WITH KNOWING THE STAKES

Employment in thousands of jobs, automotive supply sector Source: Eurostat and National Associations



Automotive suppliers directly employ more than 1.7 million people across EU27, on top of 1.2 million with vehicle manufacturers

#### **OBJECTIVES OF THE STUDY**



The study answers 3 guiding questions about the impact of the **EV transition on the European automotive supply industry**, with a focus on 7 key automotive markets:



What is the impact of different powertrain technologies and component requirements on value-add for automotive suppliers in Europe?





What is the corresponding effect on employment for automotive suppliers in Europe?

What would a mixed technology, EV-only or a radical EVimplementation scenario mean for climate targets, value-add and employment for automotive suppliers in Europe?

### **KEY FINDINGS**





Electrification puts **powertrain employment** significantly **at risk** (potential net loss of up to 275k employees until 2040) – *In all, 501k jobs at stake in the ICE domain, without counting employment created by electrification* 



Majority of future value-add in powertrain technologies depends on EU battery production (70% of value-add) – subsequently, European employment significantly depends on local battery production



A **steep net reduction** of 291k jobs is expected **between the 2030 and 2035** timeframe alone – A total of 360k jobs impacted in the ICE domain, pressure to transform towards future needs (e.g., software, electronics, infrastructure)



A **mixed technology** scenario **mitigates** the impact on employment and creates value-add until 2040 – *driven by hybrid vehicles market share* 



Western European countries will likely be best placed as strongholds in EV production (+56,2 €bn value-add until 2040) – By contrast, Central Eastern European countries will shape the run-down of ICE vehicle production

### **EV-ONLY SCENARIO WILL SHED HALF A MILLION AUTO SUPPLIER JOBS**



 501K jobs will become obsolete from now until 2040

-84% current

jobs in ICE

- This is about one-third of current workforce
- EV powertrain creates 226k
  new opportunities but still net loss of 275k jobs
- Not 1:1 compensation for ICE to EV powertrain employment

### MAJORITY OF VALUE-ADD HINGES ON UNCERTAIN EU BATTERY VALUE CHAIN





### **EVERY MOMENT COUNTS – TRANSITION VS. DISRUPTION**





- 70% of the job losses in ICE
  powertrain production will
  happen in just a 5-year period
- Very short time-frame to manage social and business impacts + investments needed (grid, infrastructure, RES...)
- The faster the loss of ICE powertrain (30-40% of overall employment) the greater the pressure on regional economies, and less time to retrain workers

#### **AUTOMOTIVE SUPPLIERS LEFT BEHIND?**





Investments needed in ICE engine now with a ban in 2035 on the horizon.



CEE countries will remain highly dependent on ICE powertrain.



Highly specialised & SME suppliers have lesser options compared to OEMs.



### A MIXED TECHNOLOGY SCENARIO PROVIDES THE MOST MANAGEABLE TRANSITION WITHOUT COMPROMISING ON CLIMATE

#### **Mixed Technology Scenario**

**EV-only Scenario** 

**Radical Scenario** 



EV-only leads to steep decline in jobs in a five-year period, radical scenario is completely unmanageable, **Mixed technology provides employment growth and stability**  CO2 is measured at the tailpipe only, the inclusion of a WtW approach, recognising sustainable renewable fuels has the potential to record further emissions reduction

## **AUTOMOTIVE SUPPLIERS' KEY MESSAGES ON 'FF55'**



All renewable energy solutions and clean drivetrain technologies are needed to decarbonise the road transport sector and achieve the EU's climate neutrality objective

#### Technology open approach

- Enable the deployment of all clean drivetrain technologies (BEV, FCEV, ICE/PHEV, hydrogen combustion)
- Avoid technology bans leading to an EV only market
- Shift from tailpipe to well-towheel approach to account emissions

# Role for renewable fuels

- Acknowledge the role of renewable and low carbon fuels, also in reducing the enormous infrastructure costs of an electrificationonly approach
- Introduce a **crediting scheme**
- Set a more ambitious GHG intensity reduction target in transport sector

# Social & Employment dimension

- Address the **social impacts** of higher carbon price
- Consider and address the impact of the proposed measures on employment, especially in regions with a dense automotive suppliers' industry

### **ROUTE TO CLIMATE NEUTRAL**



Oliver Zipse, BMW:

"If you say that 50% of the market in Europe will be pure electric in 2030, there is still the other 50%, and if you say you will not serve [this part] you are setting yourself on a course to shrink."



Herbert Diess, VW:

"Bis 2030 ist keine andere Technologie wettbewerbsfähig, ob nun die Brennstoffzelle oder E-Fuels."





Akio Toyoda, Toyota:

"Carbon is the enemy, not the internal combustion engine."

## **MAKING IT WORK**

#### Policy options & instruments



Technology-open approach

#### **1. Flanking measures**

- charging infrastructure
- investments in e-fuels and hydrogen

**Electrification-only** 

approach

- support for re- and upskilling
- Market incentives

#### 3. Review clause

• Date, KPIs, corrective measures

#### **2.** Recognition of sustainable renewable fuels

- Introducing a "crediting scheme"
- Possible within the CO2 fleet regulation
- Credible use of range extenders, hybrids, plug-in hybrids, hydrogen combustion

**4. Just transition:** social dimension, transformation funding

#### No compromising on climate goals

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## **GREEN DEAL: ACCELERATING THE TRANSITION**

How to make it work for mobility, society and industry



Integrated approach, 'just' transition, knowing the stakes



Recharging

Refuelling

Level playing field for powertrain technologies

Affordability



## Thank you!

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