

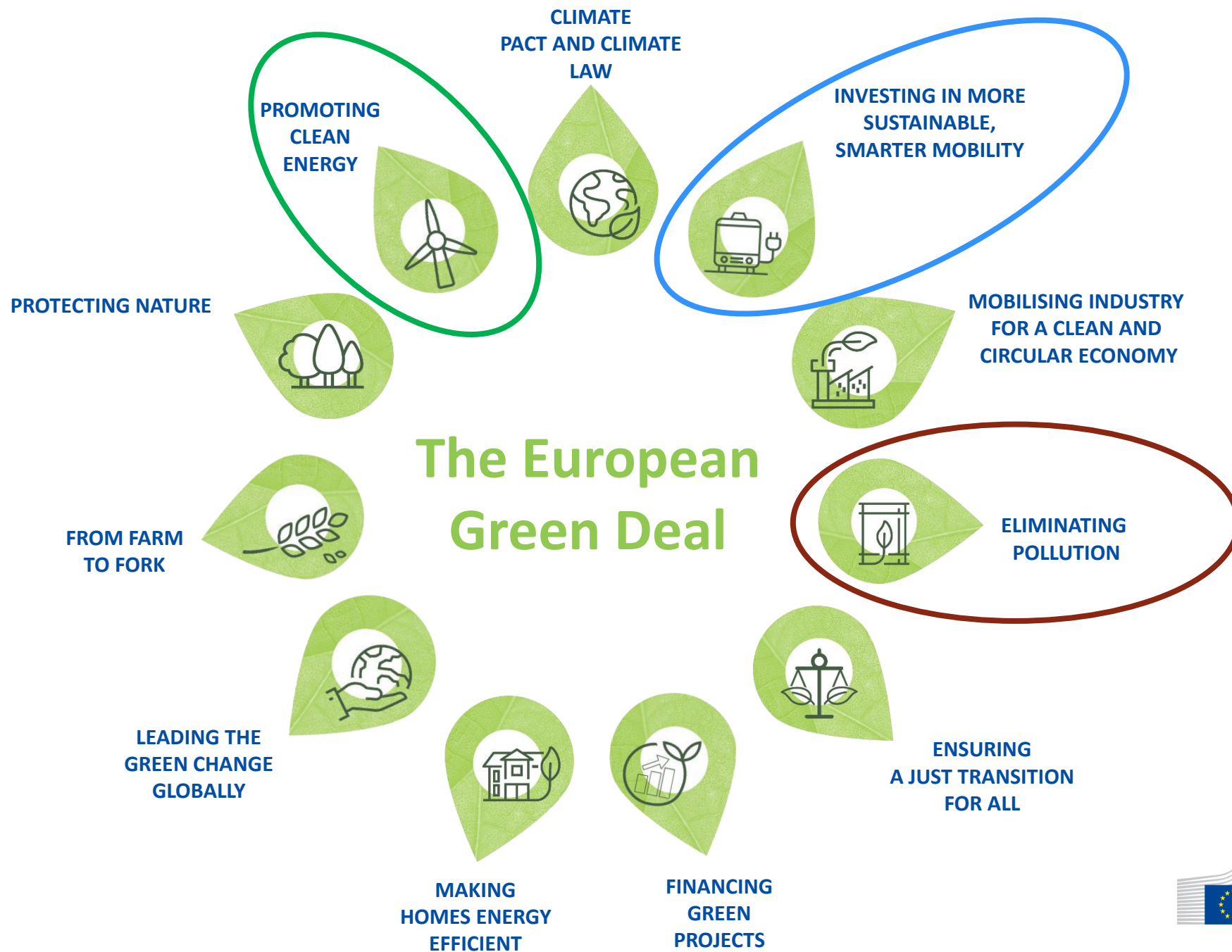


# EU Green Deal – Fit for 55

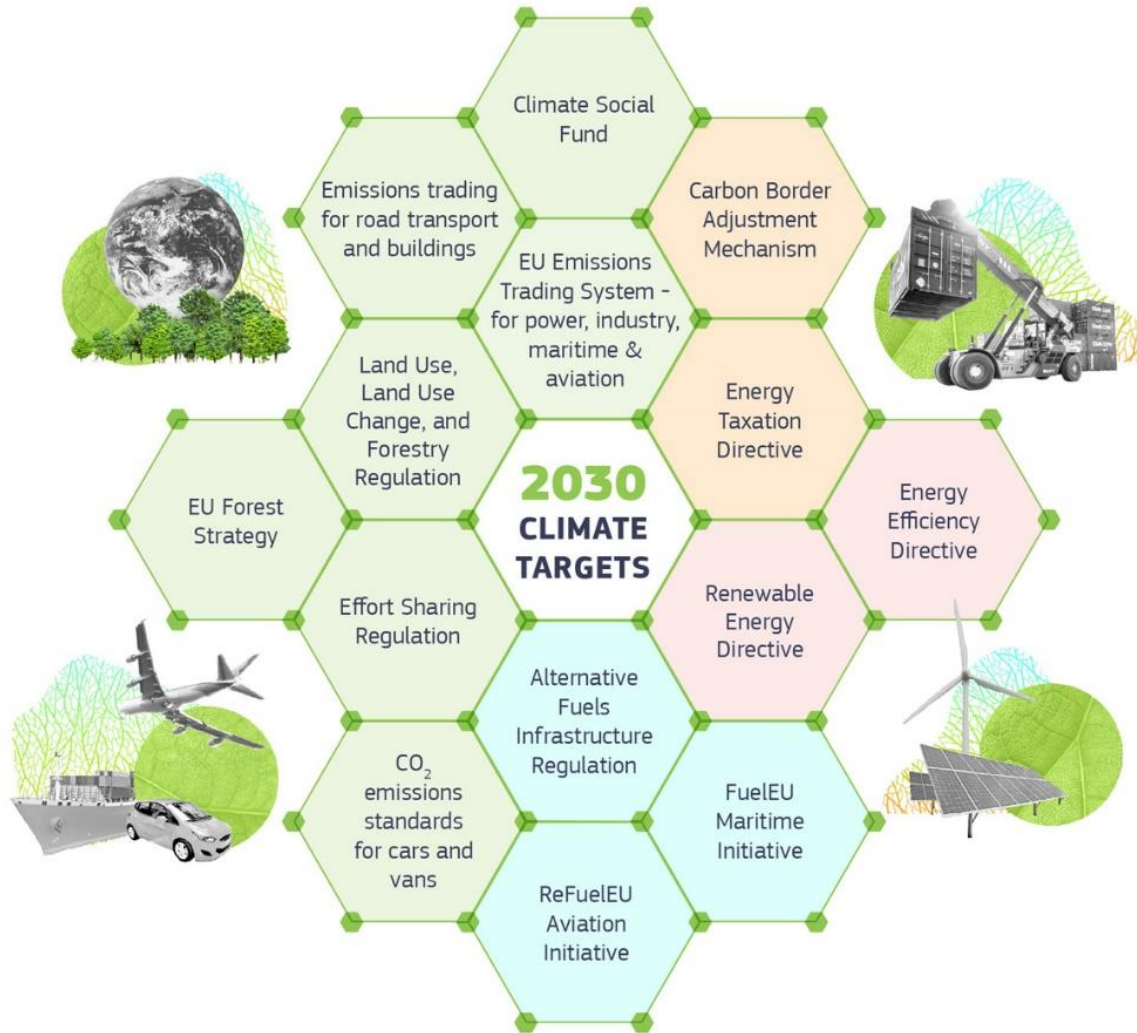
**Focus su Trasporti ed Energia**

*Carlo De Grandis - Policy Officer*

*DG CLIMA – COMMISSIONE EUROPEA*



# The Fit for 55 Package – Overview



The package aims to make the EU ‘fit for 55’ and **deliver the transformational change** needed in a

- **fair,**
  - **cost-efficient** and
  - **competitive**
- way.**

It cements the **EU’s global leadership** by action and by example in the **fight against climate change**

# Policy mix at a glance

Pricing	Targets	Rules
<ul style="list-style-type: none"><li>• Stronger ETS including in aviation</li><li>• Extending the ETS to maritime, road transport, and buildings</li><li>• Updated Energy Taxation Directive</li><li>• Carbon Border Adjustment Mechanism</li></ul>	<ul style="list-style-type: none"><li>• Updated Effort Sharing Regulation</li><li>• Updated LULUCF Regulation</li><li>• Updated Renewable Energy Directive</li><li>• Updated Energy Efficiency Directive</li></ul>	<ul style="list-style-type: none"><li>• Stricter CO<sub>2</sub> performance for cars &amp; vans</li><li>• New infrastructure for alternative fuels</li><li>• ReFuelEU: More sustainable aviation fuels</li><li>• FuelEU: Cleaner maritime fuels</li></ul>
Support measures		
Using revenues and regulations to promote innovation, build solidarity and mitigate impacts for the vulnerable, notably through the new Social Climate Fund and enhanced Modernisation and Innovation Funds		

The Fit for 55 Package consists of a set of **inter-connected proposals that strike a careful balance** between pricing, targets, standards and support measures.

# EU ETS



- Existing ETS

- Increase of 18 pp of emissions reduction (from -43% to -61% by 2030)
- **Remove free allowances for aviation**
- Review of the Market Stability Reserve
- **Will now include maritime transport**

- New ETS

- For **road transport** and buildings, operational as of 2025
- Emissions reduction of 43% by 2030
- Climate Social Fund to address possible social impacts

# Transport decarbonisation (-90% al 2050)

Modal shift to Low/Zero-carbon Transport:

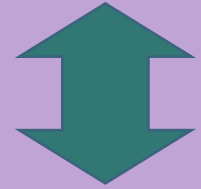
- TEN-T
- Urban Mobility Framework
- ETS



EU Smart and Sustainable Mobility Strategy

Clean(er) fuels

FQD update



RED rev

FuelEU, REFuelEU

Clean powertrain & grids

Fleet & Distance-based targets

Standards, Access, Info & Payments

EPBD rev: smart charging

EU Strategy on Energy Systems Integration

AFIR

CO<sub>2</sub> emission standards for LDVs -> ZEVs

2035: end ICE (UK : 2030, NO: 2025...)

Upcoming HDV CO<sub>2</sub> standards rev.

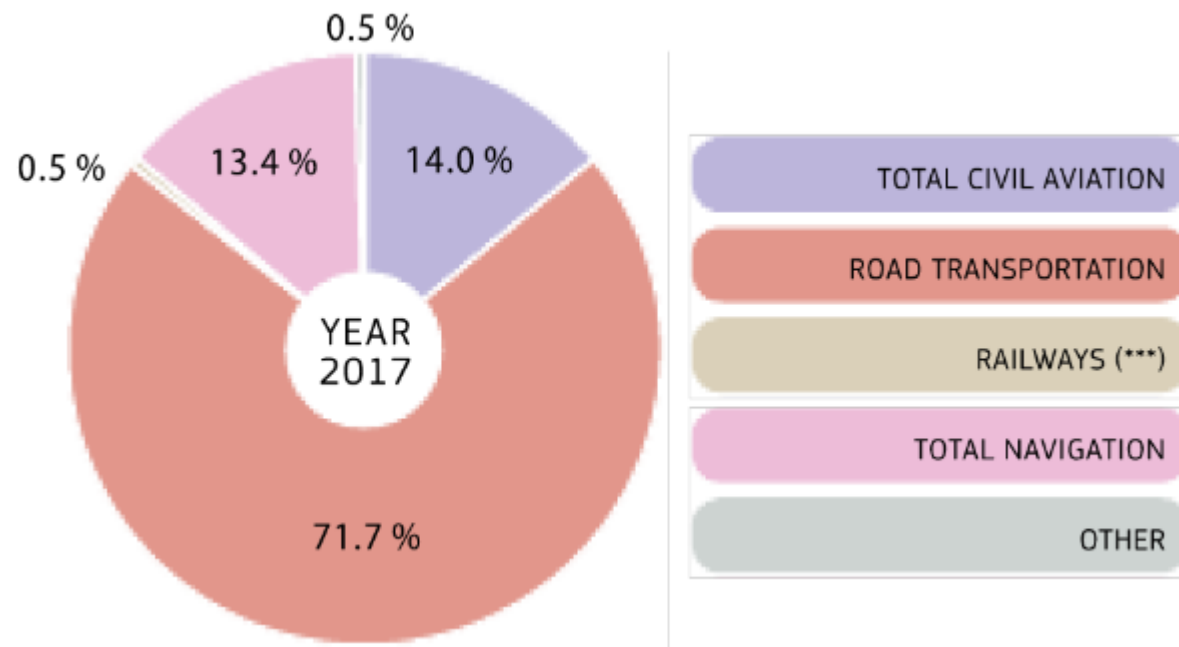


European Commission

# and for Rail?

## Railways are far more efficient (less energy per good / person per km) than any other land transport mode

(11% Freight Share, 7% Passenger share – 0.5% direct emissions)



# EU Sustainable and Smart Transport Strategy – rail & passengers

2022: new TSI package & Action plan to boost C-B and Long-distance rail passengers

**Internalisation of external costs** (by 2030 level playing field road - IWW and Rail Freight – by 2050 full internalisation) – starting from Energy Taxation Directive

2030: Doubling High-speed rail traffic

2050: Tripling High-speed rail traffic

# EU Sustainable and Smart Transport Strategy - freight

In line with EGD: modal shift of (part of) the 75% freight transport by road towards more energy-efficient modes (Rail and IWW)

Sustainable cargo operation in Europe -> revising the framework for Multimodal transport

2030: Rail freight + 50%

2050: Doubling rail freight

# Increasing Rail infrastructure capacity

Game changers: Dynamic information a communication of:

$$\Delta q \cdot \Delta p \gtrsim \hbar,$$

- Actual train Speed
- Actual train Position
- Train integrity status
- & Braking performances

OB Train  
Integrity, GNSS -  
Enhanced  
*Odometry,*  
*Moving blocks*



ETCS L3 – System Concepts and challenges

## 1) Full Moving Block, without Track Vacancy Detection



## 2) Full Moving Block, with Track Vacancy Detection



## 3) Fixed Virtual Blocks, without Track Vacancy Detection



## 4) Fixed Virtual Blocks, with Track Vacancy Detection



Level 3 Hybrid

# Enhancing RES integration and energy efficiency

- Electrification (higher impact with > RES)
- ATO: 20-40% Energy Savings
- New traction technologies
  - Hybrid Electric - Batteries
  - Hybrid H2 - Electric
  - H2 – FC (goal >50% efficiency)
- Stations as energy hubs

# Decarbonisation, Rating & Access to credit

US plans to end fossil fuel  
finance overseas, mirroring EU

Dutch Financial Market Authority chair: climate  
policy should be stricter (km-DNS-NL)

<https://missionpossiblepartnership.org/>

Taxonomy

Europe's cloud  
computing industry  
signs sustainability  
pact by 2030

Corporate Reporting

ESG

IMF to intensify focus on climate change's economic impact,  
Georgieva (Reuters)

South Korea to tighten ETS  
benchmarks in net zero race  
(Carbon Pulse)

Europe needs to acknowledge that its future is no longer with fossil  
fuels, said the President of the **European Investment Bank** as he  
presented the bank's 2020 results on Wednesday (20 January).  
"To put it mildly, gas is over,"

**Europe's central banks** are ramping up their efforts ...to fight  
climate change while rebuilding their economies ...The latest  
initiative includes International Settlements for **green-bond**  
**investments** by central banks.

**African Development Bank** backs young 'agripreneurs' to  
beat climate change with Multi-billion pledge (reuters-en)

Banks ask for better data to  
implement EU green  
finance taxonomy  
(EurActiv)

# Keep in touch



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# Thank you for your attention



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