



Shift2Rail Shift2Green

The vision of the European Rail Supply Industry

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- UNIFE is the **European Association of train-builders and rail equipment suppliers**
- A unique network of over 100 member companies from all over Europe and of all sizes (1/3 of SMEs) and 14 National Associations

World leaders:

UNIFE members have a 84% market share in Europe and supply 46% of the worldwide rail production





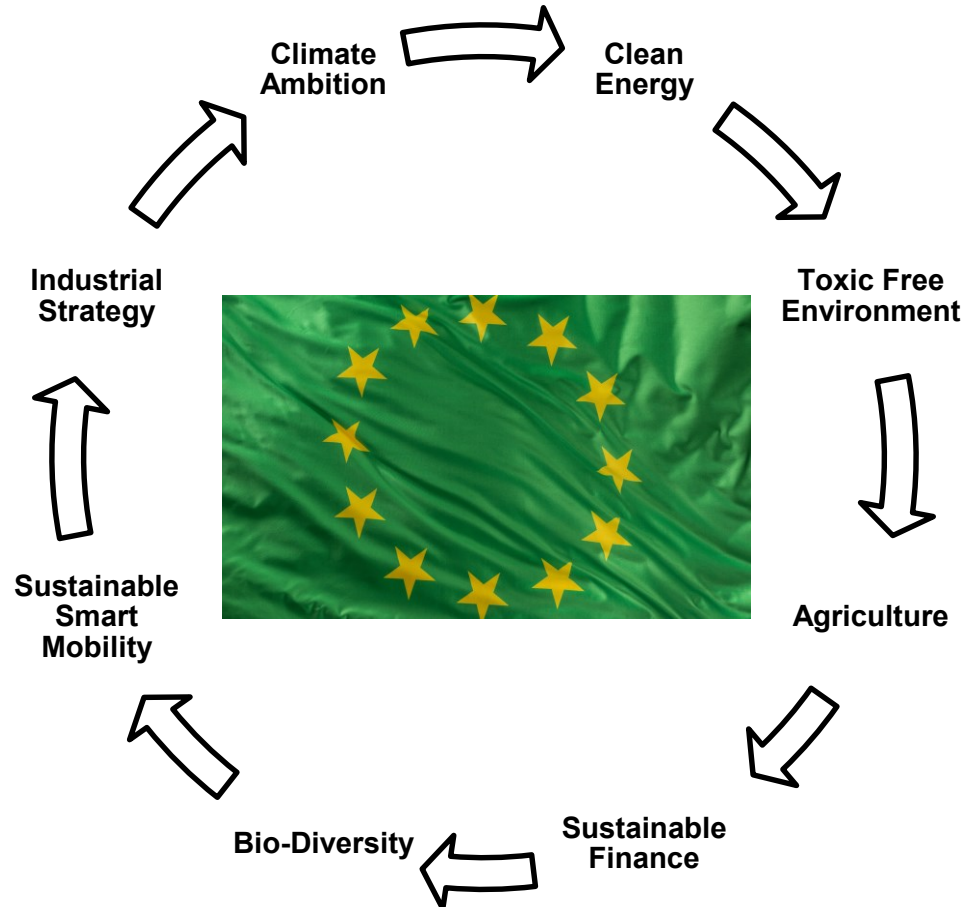
UNIFE Members



Associate Members

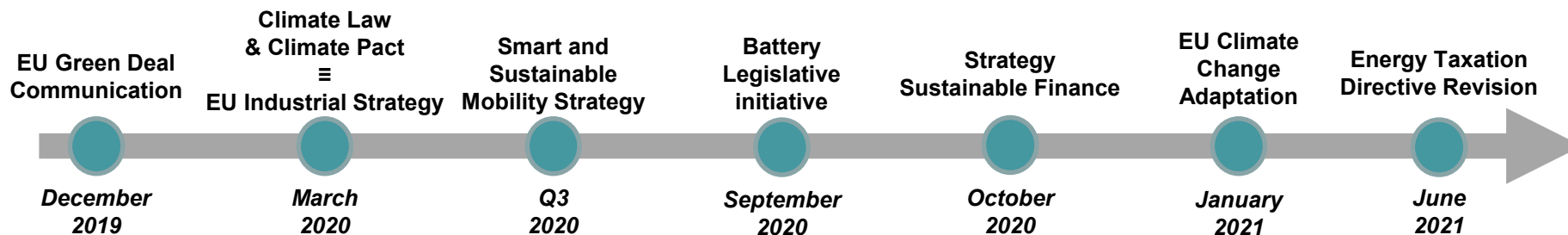


EU Green Deal and Rail Transport



“A new growth strategy to transform the EU into a fair and prosperous society, with a modern, resource-efficient and competitive economy where there are no net emissions of greenhouse gases in 2050 and where economic growth is decoupled from resource use”.

Frans Timmermans – First Vice-President of the European Commission



2020

Climate Strategy

- Climate Law 2050 targets & 2030 revision impact assessment.

Industrial Strategy

- Circular Economy Action Plan.
- Legislation on Batteries

Sustainable & Smart Mobility

- Revision of 2011-Transport White Paper and modal shift targets.

Sustainable Finance

- EU Taxonomy Regulation.
- Green Bonds initiative

2021

Sustainable & Smart Mobility

- Revision of Combined Transport Directive.
- Revision of Eurovignette Directive.
- Review the TEN-T Regulation.
- Review of Alternative Fuels Infrastructure Directive

Climate Strategy

- Review of ETS.
- Review of Energy Taxation Directive.
- EU Strategy on Adaptation to Climate Change

Transport represents almost a quarter of Europe's GHG emissions – the only sector failing to reach the objective of CO₂-emissions reduction.

Rail is the exception: it is the only mode which has decreased its emissions while improving its energy efficiency.

- No climate-neutrality objective can be reached without decarbonising transport.
- **Rail is part of the solution to fulfil Europe's holistic sustainability's ambitions.**
- The European rail supply industry is fully committed to a clean mobility paradigm according to the principle "affordable, sustainable mobility, for everyone, everywhere".



Shift2Rail - a key PPP of Horizon 2020 for the competitiveness of the European rail industry

- The **world leadership** of the export-oriented rail industry is also due to its **Research/Development/Innovation** capacities.
- Innovation is in the DNA of the European rail supply industry, which currently **invests 3.6% of its annual turnover in RDI** and has developed innovations such as **high-speed trains, ERTMS (European Rail Traffic Management Systems) and automated metro systems**



■ Shift2Rail :

- Breakthrough for Rail R&I: for the first time, **continuity and stability** of the whole rail sector's innovation efforts is fully ensured.
- Long term **budget stability**, over 7 years : commitment to reach the demonstration objectives;
- **It improves the EU rail industry competitiveness and the role of the EU rail transport in a multi-modal context.**
- It is a great **platform for cooperation**: high value added of having railway undertakings, infrastructure managers and manufacturers within same projects;
- It enables to illustrate **proof of concept** (through demonstrators) for policy dossiers;
- **SMEs** participation fairly high.



IPP for rail within Horizon Europe

Shift2Rail 2 – Transforming Europe’s Rail System

1. **Automated rail transport**
2. **Mobility as a seamless service**
3. **Digitalisation**
4. **Towards an efficient Zero Emission Railway**
5. **Maintenance of the future**
6. **Enhancing the security and the protection of the rail system**
7. **Optimized infrastructure**
8. **Digitization of the supply chain (Industry 4.0)**
9. **New certification framework**



- **Increasing Flexibility:** rail systems capable to respond promptly to **the users' needs**;
- **Increasing Attractiveness;**
- **Increasing rail freight** market share in Europe;
- **Life cycle costs savings;**
- **Increasing reliability, availability, maintainability;**
- **Supporting the reduction of emissions, reduction of noise, towards zero energy waste;**
- **Support interoperability within the SERA;**
- **Increasing the competitiveness of the EU Rail Supply Industry**



Thank you for your attention!