

Danube Region Transport Day 2021

Challenges for Passenger

Transport in the Danube

Region

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The Covid experience

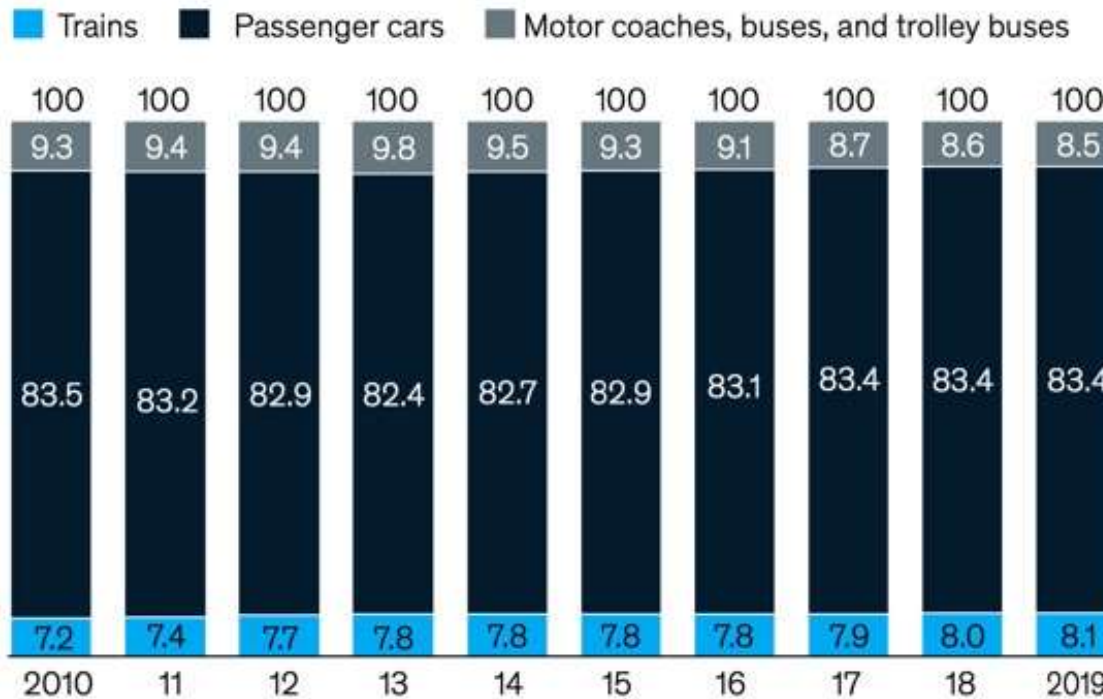
- Total **revenue for the EU rail sector fell by around €26 billion between 2019 and 2020**, €24 billion related to passenger traffic. Accumulated losses of the entire rail system today equal more than €50 billion
- Over the same period in Germany, France, Italy, and Spain, **passenger kilometers dropped by 40-60%**.
- Revenue losses are likely to continue in the short term as demand with mostly **fixed costs** that do not scale back
- Between 20 and 25% of the workforce in advanced economies could **work from home** between three and five days a week, affecting permanently commuting and business market segments (McKinsey Global Institute).

Modal share evolution 2010-2019: little progress made

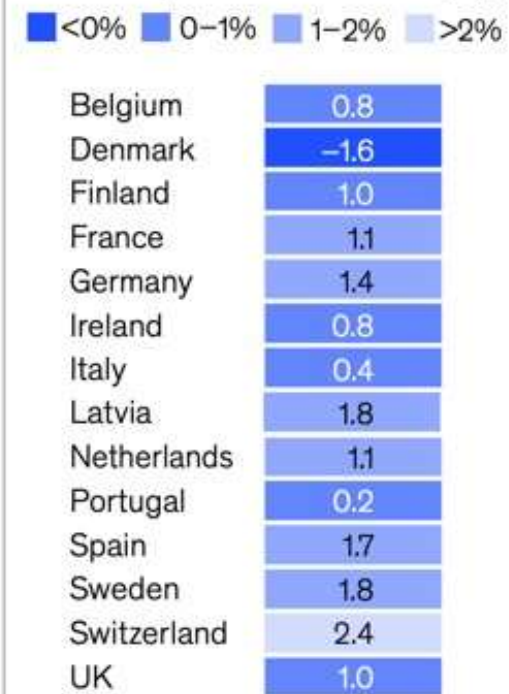
Exhibit 1

Modal share started flattening around 8 percent; Switzerland exhibited the highest absolute growth at over 2 percentage points.

Modal split of passenger transport European Union 28 countries



Selection of EU countries
Absolute growth 2010–2019 (%p)



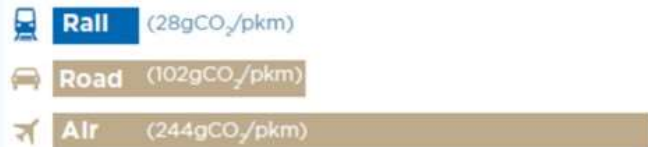
Source: McKinsey from Eurostat

Source: Eurostat modal share of transport

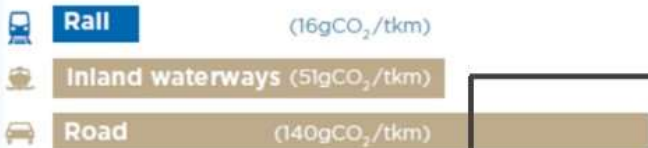
Yet we must insist: rail is the ready-made solution for decarbonisation

Rail is **9x less CO₂** intensive than road for freight and air travel for passengers.

Passenger



Freight



Rail is **7x more energy-efficient** than road due to physical advantages such as lower rolling and air resistance.



Distance per energy unit consumed

Rail accounts for just **2% of total EU energy consumption in transport**, while it carried 18% of freight and 8% of passengers of all transport modes in 2018

Rail emits **9x less CO₂**



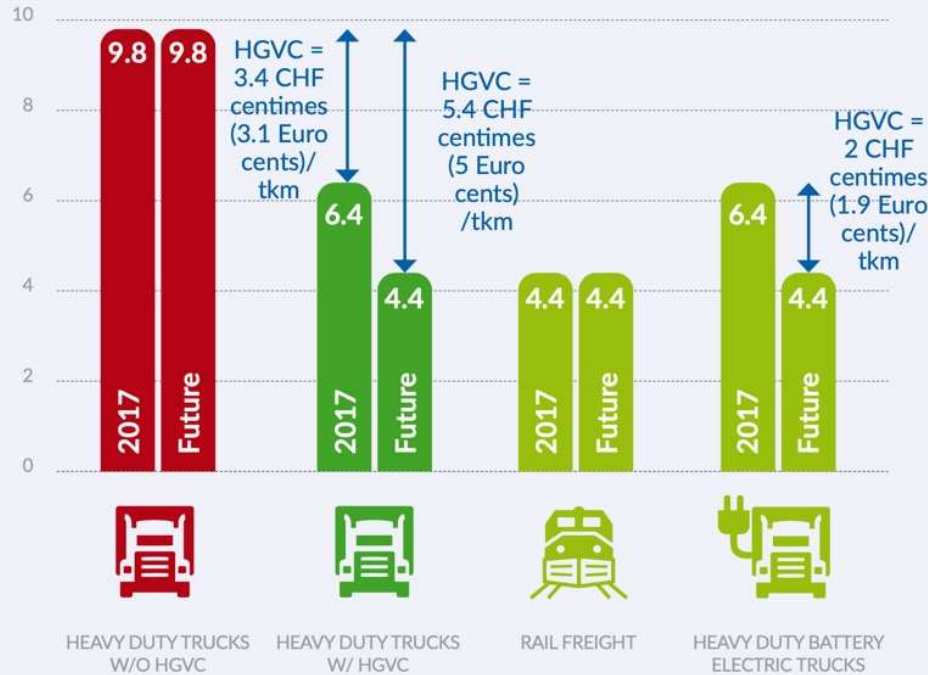
Rail is **7x more energy efficient**



CO2 emissions are not the only externalities to be accounted for

FIGURE 2: EXTERNAL COSTS (CHF CENTIMES PER TKM)

In future external costs must be accounted for both diesel and electric trucks in order to create a level playing field between rail and road freight transport (Source: Albert Mancera/ETH Zürich)



- Current average values for HGVC create a level playing field for competition between diesel and electric trucks.
- Nevertheless, current average values for HGVC do not create a level playing field for competition between road and rail freight transportation.
- Hence, the HGVC should increase by about 2 CHF centimes (1.9 Euro cents)/tkm and amount to 5.4 CHF centimes (5 Euro cents)/tkm for diesel and to 2 CHF centimes (1.9 Euro cents)/tkm for electric trucks.

Source: CER Essay, Boulouchos and Ducrot, 2021

Railways want to play a bigger role in the door2door mobility chains

- The journey experience is dependant on **seamless ticketing and digitalisation**, but also includes the **affordability** of ticket prices, the **speed** and **duration** of rail passenger travel, as well as on-board facilities.
- **High-speed** and **night trains** are a sustainable alternative to cheap flights with a range of 1000km if appropriate political support is provided
- Several legal and technical obstacles need to be addressed in relation to setting up new cross-border international train services, including night trains: this is why **fast harmonisation of technical and operational rules, norms, and requirements** is needed
- It is also essential to fully internalize environmental externalities with pricing based on the 'user-pays' and the 'polluter-pays' principles: with it, more **international commercially viable train services** could then be developed

Passenger modal shift will be possible if positive actions are taken on important dossiers

- ▶ The **TEN-T** revision, to provide adequate capacity and quality infrastructure
- ▶ The acceleration of **ERTMS** deployment, to improve infrastructure and traffic management
- ▶ The sector-led work on **ticketing**, to provide an ever better customer experience of rail services
- ▶ The **Fit for 55**, to redress intermodal competitive imbalances and reallocate resources to collective low emissions mobility

The revision of TEN-T Regulation

**Revision of TEN-T
Regulation will be key
in promoting the right
standards**

- TEN-T must promote a European **high-speed network** linking European major cities
- **International passenger corridors** must be created and the cooperation between **RFCs and CNCs** must improve
- **P/C 400 loading gauge** must be possible on the TEN-T network, at least for predefined international rail freight routes
- **Urban nodes and last mile infrastructure for freight** must be integrated in the current TEN-T Network.
- 160km/h as minimum speed limit for passenger trains will not be always feasible. Instead "**as fast as required** (to fit the timetable)" should be the leading principle
- **ERTMS** is pivotal

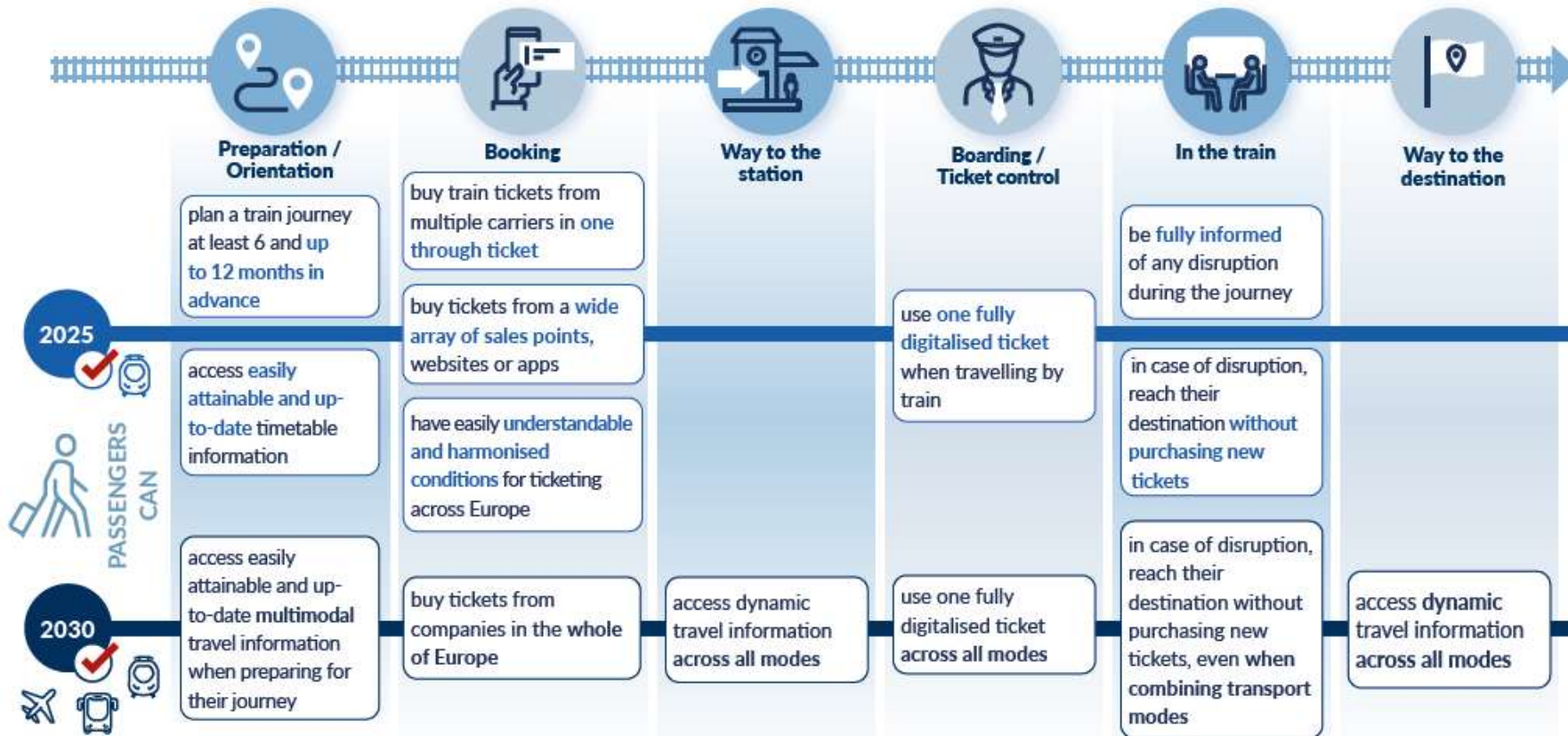
The CER Ticketing Roadmap

The vision

Passengers will have a seamless user experience when searching, selecting, buying and using rail services, including first and last mile transport, with:

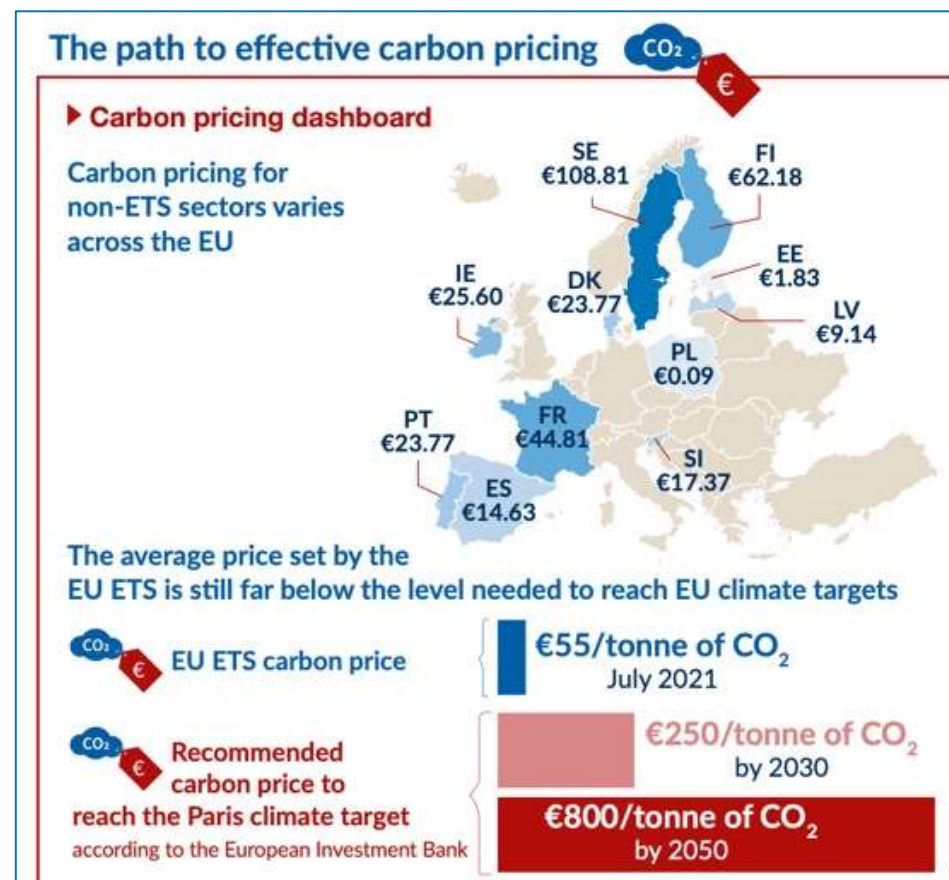
- access to **simple, reliable and comprehensive online information** regarding timetables, prices, dependable real-time information and ticket purchasing for (rail) transport services, both domestic (urban, regional, long-distance) and international
- **easy acceptance throughout Europe** of tickets issued by different railways and ticket vendors
- **guidance in case of travel disruption** on onward journey options and passenger rights

How we get there



Fit for 55: on opportunity not to be missed

- **ETS scope** should include the whole of aviation and road
- At least 25% of **ETS revenues** should be earmarked to sustainable mobility projects (e.g. air-rail projects on the TEN-T network to replace short-haul flights with rail transport)
- **The scope of the Social Climate Fund** should be widened to facilitate citizens' access to low emissions collective mobility with at least 25% of its firepower



Action plan to boost long distance and cross-border passenger rail (key takeaways)

The EC will

- prepare **“go-everywhere” passenger rolling stock specifications**, in cooperation with ERA (a TSI deliverable expected for 2022)
- clarify by 2023 the **State aid rules on public funding of interoperable rolling stock for cross-border services** in the revised Railway Guidelines. The issue of scrapping of existing rolling stock will be addressed in this context;
- continue supporting the fitting and retrofitting of rail vehicles with **ERTMS**
- promote the ratification of the **Luxembourg Rail Protocol** and support its implementation within the EU
- provide guidelines in 2023 for setting **TACs** which support the development of long-distance and cross-border passenger services

Action plan to boost long distance and cross-border passenger rail (key takeaways)

- Assess the need for an **EU-wide VAT exemption for international train services**
- Support and promote **air-rail multimodal journeys** on routes where the suitable infrastructure is in place to deliver such services, and assess regulatory options to facilitate such multimodal services
- publish interpretative guidelines in 2022 for applying the **PSO Regulation**, including to long-distance and cross-border rail passenger services and to promote and support the development of sustainable multimodal land transport services
- With the EIB, the EC will seek eligible pilot projects to **acquire rolling stock** under the Green Rail Investment Platform / InvestEU

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