



Liberalization of Rail Passenger Transport in the EU

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Getting there together



An overview of the liberalization of EU rail passenger transport on a timeline



VR GROUP Summary of the different railway packages

<u>2001</u>

First railway package

- Rail infrastructure package
- Limited liberalization of international (between EU-countries) freight transport by 2003

2007

Third railway package

- Liberalization of the international (=between EU countries) rail passenger services by 2010
- Certification of train crews
- Passenger rights

2016?

Fourth railway package

- Completing a single European rail area
- Liberalization of domestic passenger traffic

Second railway package

- Liberalization of rail freight market by 2007
- Technical and safety regulations

<u>2012</u>

2004

Recast of the first railway package

- Establishing single European rail area
- Access to rail-related services
- National regulatory bodies for rail transport

The liberalization of EU-wide national rail passenger transport continues to be delayed and leaves significant room for interpretation

2012

2014

2019

Railway liberalization schedule 2001 Adoption of the first railway package Recast of the first railway • Guidelines for the **network** package manager as well as on the • New version on prices, fixing of **prices** and **allocation** access to tracks and of routes service facilities and role of the regulatory authority 2013 COM submits proposal for the 4th railway package 1st reading of the 4th railway • Regulations for **separation** of package in the European network and operation, **Parliament** liberalization of passenger • **Changes** to the overall transport markets, and for package strengthening **ERA**, **interoperability** and safety Key areas of focus such as the • 2015 unbundling of the infrastructure will probably 4th railway package delayed remain unaffected and less strict • Railway holdings can remain in the case of no discriminating Expected date when the access to infrastructure package becomes effective Longer transition allow **direct** awarding domestic

Comments

Railway liberalization reforms have been delayed and continuously amended on the past years

- The implementation of the recast of the 1st railway package is delayed in most countries
- The 4th railway package has also been delayed and amended several times over the past years
 - Due to **continuous criticism** from the EU member states regulations and **conditions** are becoming increasingly softer and less binding
- Formulations of **the directives** are very • broad and leave significant room for interpretation – directives have been **implemented** in various ways, leading to different degrees of liberalization and levels of competition
- European Commission starts regularly • infringement proceedings against states because of national railway politics

vears

passenger trans. for 10-15

VR GROUP The state of the EU railways in 2015





Infrastructure management

Domestic rail

passenger

markets

- Separated from railway operations in 13 countries
- Integrated model in 13 countries
- Only partially liberalized
- Domestic rail passenger traffic liberalized in 10 EU countries
- Total liberalization only in 2 countries, UK and Sweden
- Entering domestic markets often difficult due to long-term franchising contracts with exclusive rights

Consolidation of open markets

- Large multi-modal companies: rail and bus/coach transport
- Actively looking for new markets, also acquisitions

The fundamental aim of the European Commission is to improve Europe's railways



Single European Rail Area

- More competitive rail sector
- Higher levels of safety
 and reliability
- Integrated rail network
- Increased efficiency of rail transport services

The fourth railway package completes the liberalization of rail passenger services

Technical part

- Technical interoperability: free movement of trains between EU-countries without national authorization processes
- EU-wide vehicle authorizations
- EU-wide safety certificates

Political part

- Opening up of domestic passenger markets by December 2019
- Enforcing independence of infrastructure managers from railway operators
- Mandatory competitive tendering for public service rail contracts
- Common rules on the award of public service contracts for rail passenger transport

Issues still under negotiation

- Timetable: entry into force and transition period
- Exemptions to mandatory competitive tendering
- Terms of validity for public service contracts currently in force and concluded during the transition period
- Protection of public service contracts against commercial traffic
- Transfer of rolling stock
- Social issues: transfer of staff
- Reciprocity

Public service contracts in general refer to rules related to public financing for organizing unprofitable passenger transport services

- Regulation on public passenger services by rail and road was adopted in 2007
- Public passenger transport = "Passenger transport services of general economic interest provided to the public on a nondiscriminatory and continuous basis"
- Current regulation allows both for competitive tendering and direct awards
- After the fourth railway package will be adopted, competitive tendering will be the general rule. Proposal to have limited exemptions allowing direct awards based on efficiency criteria

Statistics

- The share of domestic passenger transport is 94% of all passenger km in the EU
- Public service contracts comprise 62-65% of all passenger km in the EU (statistics from 2011-2012)
- All local and regional traffic and 2/3 of long-distance traffic are based on public service obligations

In the EU, over half of the services are organized through public service contracts

PSO and commercial services in 2012 (% pkm)



Source: RMMS questionnaires - annex 15 of Staff Working Document SWD(2014) 186

All local and regional traffic and 2/3 of long-distance traffic are based on public service obligations

Rail segments and market structure in 2012 (% pkm)



Source: RMMS questionnaires, own research, State aid scoreboard; the situation in Poland could be slightly different with some commercial services running on regional lines 10



LESSONS LEARNED FROM LIBERALIZATION IN EUROPE

European passenger rail is at different levels of liberalization and competition today

Level of competition and degree of liberalization



1

While liberalization is taking place at various speeds, three main models have been adopted

Disruptive model

- Fast implementation (~2-5 years)
- Tendering or open access policy for the majority of the network
- Horizontal separation of value chain
- Vertical separation (freight, passenger and infrastructure)
- Significant build up of regulatory, coordination and control body





- **Stepwise implementation** (~5–15 years)
- Tendering of an increasing share of the network/ open access policy for long distance
- Some vertical and horizontal separation, integrated railway holding
- Build up of regulatory, coordination and control body



Remaining strong incumbent



3 Strong governance control

- No liberalization
- One incumbent (and small public owned local operators)
- Fully integrated value chain and horizontal integration
- Strong governmental control with lean regulatory body and regulation based on performance agreements



Integrated incumbent and system coordinator with tight governmental performance control



Each model reflects a different level of impact on the vertical and horizontal separation, as well as on the organization of competition

Model criteria



- Usually clear split between infrastructure, passenger and freight
- Often further separation within passenger into long distance (high speed and/or conventional) and regional/suburban
- Partially existence of integrated railway holding



- Value chain typically divided into operations, rolling stock procurement/ financing, maintenance, sales (incl. separate ticket distribution)
- Incumbents often cover full value chain, however new entrants for parts of value-chain
- Partially **explicitly rolling** stock provision only by third parties



- **Organization of** competition
- Typically either **open access** (competition on same routes at same time) and/or tendering (competition for exclusive franchise for a route or network)
- Transport contracts vary in many points (duration, revenue sharing, vehicles specifications, guarantees by authorities, service level agreements, penalties etc.)

Implementation process

- Each country has chosen a **different approach** as well as a **different timeline** concerning the liberalization process (~ 2 to 20 years)
- Most countries are not fully liberalized yet, UK, Sweden and Germany most advanced (long) distance and regional transport liberalized)
- Relevant EU legislation (4th railway package) is **delayed**, especially respective **obligations** for tenders

Nevertheless, experience has shown that railway performance depends mainly on the level of public spending

EU passenger rail subsidy – RPI ratings with public cost, but some countries get more value for their money



Comment

- Countries with high degrees of liberalization, e.g. GB, do not necessarily have the best performing railway systems
- At the same time they also often rank amongst the highest in terms of public cost allocation
- While non-liberalized countries with a high public spending, e.g. Switzerland have a very good performance
- Finland has already low public spending and a high performance in comparison

Source: BCG analysis

- 1. RPI = Railway Performance Index; Performance is measured based on intensity of use, quality of service and safety; public cost is the sum of public subsidies and investments, and it includes cost of debt and expected future investments;
- 2. 2. Public cost is expressed as thousands of euros per inhabitant, normalized on a scale of 0 to 10; Not adjusted to purchasing power.

In Europe public service transport still has a dominant position in rail



→ In total 18 billion EUR of public subsidies in the EU to finance public service obligations

Source: European Commission European Commission Fourth Report on Monitoring the Rail Market 2014



In Sweden all regional passenger traffic consists of liberalized but tendered public service obligations

- Regional authorities are responsible for ordering and tendering of passenger traffic services
- Share of public subsidies varies between 40-70 %
- Use of public financing has grown after opening of the market in 2010
- In 2014 the public spending on train services consisted of 3.1 billion SEK (over 300 million EUR)



Sources Öppna jämförelser, Kollektivtrafik 2014, SKL and statistics of Trafikanalys



The UK rail market is also liberalized but with much smaller government funding



- Rail industry income was £13.5 billion
 - 71 % from passengers
 - 26 % from governments
- Overall cost of running railways was £13.5 billion
 - 54 % train operations
 - 46 % rail infrastructure
- Franchised train operators contributed more to governments than in previous years
 - In 2013-14 net they received net support of £0.1 billion
 - In 2014-15 they made net payments of £0.7 billion
- Total governments' funding per passenger journey
 - England £1.66
 - Scotland £6.70
 - Wales £9.14

due to the very different average passenger densities per train

Lessons learned from the different models and countries



Disruption led to an increase in competition in the $\ensuremath{\mathsf{UK}}$

- **High increase** in number of passengers (starting from a very low level)
- Development of competition is strongly dependent on attractive passenger flows (e.g. regional franchises 12 BN pax km p.a.)
- High complexity due to fragmentation
- High **degree of coordination** required, causing high **administration costs**
- High cost of infrastructure

Build up of competition in Sweden has been slow due to unattractive passenger flows

- Inability to attract international players due to unattractive traffic patterns – only for attractive lines (e.g. Stockholm – Göteborg (MTR Express))
- Only little value creation on entrepreneurial level, value chain fragmented and not attractive for large investors
- **Continuous increase** in overall public contribution

2 Evolution model

 Several benefits of the evolution model have been realized in Germany and Austria, but the competitive situation remains unsustainable

3 Governance model

 Attractive rail systems exist in Switzerland and Luxembourg, but only due to high public spending and strong governmental control





SPECIFICS OF THE FINNISH RAILWAY MARKET

The base for liberalization has already been established

	Separation between infrastructure and operations as well as of passenger and freight has already taken place
Y	Freight market has been opened for competition in 2007 and the tendered Helsinki area commuter services will start in 2021
	The long-distance bus/coach market is liberalized
Ss	High degree of cost transparency concerning infrastructure charges, subsidies and VR's operational cost

infrastructure charges, subsidies and VR's operational cost

Key characteristics of the Finnish passenger railway market

Single track infrastructure

- High risk of capacity bottlenecks
- Low operational flexibility

Specific gauge

- Limited reutilization possibilities of European rolling stock
- High degree of rolling stock specification and high procurement cost

Low density population

- Nationalwide only low traffic volume, which can be bundled in order to increase load factor
- Major traffic volume only present in Southern parts of Finland (Helsinki region), no other large cities

Good positioning of intermodal competitors

- Many airports
- No road congestion



Intermodal competition from low-cost buses has already led to price reductions as well as schedule and operating cost optimization

Intermodal (low-cost bus) competitive intensity

- Deregulation of the bus/coach market has brought significant intermodal competition to rail from 2014 onwards
- 64% of the travelling is within 300 km radius of Helsinki
 - 14% from Helsinki to other parts is beyond 300 km
 - 22% of the traffic is outside of the 300 km radius of Helsinki
- Traffic within the 300 km is particular attractive for bus services



Preliminary conclusion: Additional rail competition will not bring significant additional impact nor increase the overall volume of travellers



Liberalization of the rail market - four key conclusions

- The liberalization model needs to be **tailored** to the **countries traffic** structure and **liberalization objectives** as well as at the appropriate **implementation speed**
- 2 **Tendered networks/baskets** need to be **attractive** for operators
- Appropriate coordinating and regulatory structures be build up is required but the degree of complexity needs to be in balance with the benefits
- 4 Liberalization does not mean that **public financing** can be avoided



Thank you for your attention!

Getting there together