



# Data collection for intermodal transport analysis

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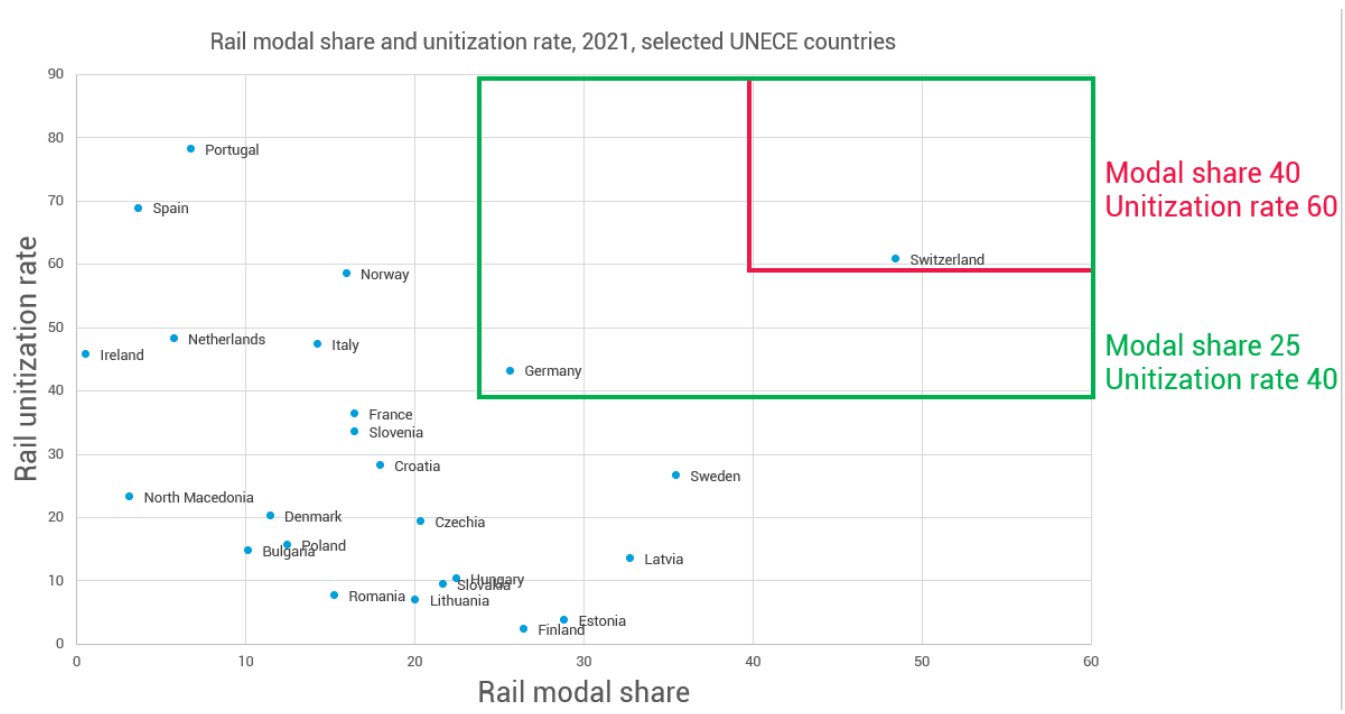
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# Interest

- Measure of intermodal transport (target setting)
- Intermodal transport performance
  - Train operation (speed, length, weight, axle load)
  - Terminal operation (time between acceptance of goods and train departure, arrival of trains and availability of wagons for unloading, waiting time for road vehicles)
  - Intermediate station operation (time needed for exchange of wagons, border-crossing points, gauge change, ferry links)
- Transport cargo flows along corridors

# Measure of intermodal transport (target setting)

Indicators for unitization rate in rail and rail modal share



Alternative: collection of data on number of containers carried by rail

# Intermodal transport performance

(a) Train performance:

Country	Data on train				No train performance data
	nominal speed	length	weight	axle load	
Austria		x	x	x	
Czechia		x	x	x	
Denmark					x
Germany					x
Georgia	x	x	x	x	
Greece					x
<b>Kyrgyzstan</b>			<b>x</b>		
Latvia	x	x	x		
Lithuania	x	x	x		
<b>Netherlands</b>		<b>x</b>	<b>x</b>		
Norway	x	x	x	x	
Republic of Moldova					x
Russian Federation	x	x	x	x	
Serbia					x
Switzerland		x	x		
Türkiye	x	x	x	x	
Uzbekistan			x	x	
Iran (Islamic Republic of)	x	x	x	x	

(b) Performance at terminals:

Country	Data on times between/on			No performance data for terminals
	acceptance of goods and departure of trains	arrival of trains and availability of wagons for unloading	waiting times for road vehicles	
Austria				x
Czechia				x
Denmark				x
Germany				x
Georgia				x
Greece				x
<b>Kyrgyzstan</b>				<b>x</b>
Latvia	x	x		
Lithuania				x
<b>Netherlands</b>				<b>x</b>
Norway	x	x		
Republic of Moldova				x
Russian Federation	x			
Serbia				x
Switzerland	x	x		
Türkiye	x	x		
Uzbekistan				x
Iran (Islamic Republic of)	x	x	x	

(c) Performance at intermediate stations

Country	Data on times of stops for/at				No performance data for intermediate stations
	exchange of wagons	border-crossing points	gauge interchange stations	ferry links/ports	
Austria					x
Czechia					x
Denmark					x
Germany					x
Georgia		x			
Greece					x
<b>Kyrgyzstan</b>					<b>x</b>
Latvia	x	x			
Lithuania	x	x			
<b>Netherlands</b>	<b>x</b>	<b>x</b>		<b>x</b>	
Norway		x			
Republic of Moldova					x
Russian Federation		x	x		
Serbia					x
Switzerland		x			
Türkiye	x	x	x	x	
Uzbekistan					x
Iran (Islamic Republic of)	x	x	x	x	

# Intermodal transport performance

Challenge => performance data unavailable (not measured/not shared)

Way forward?

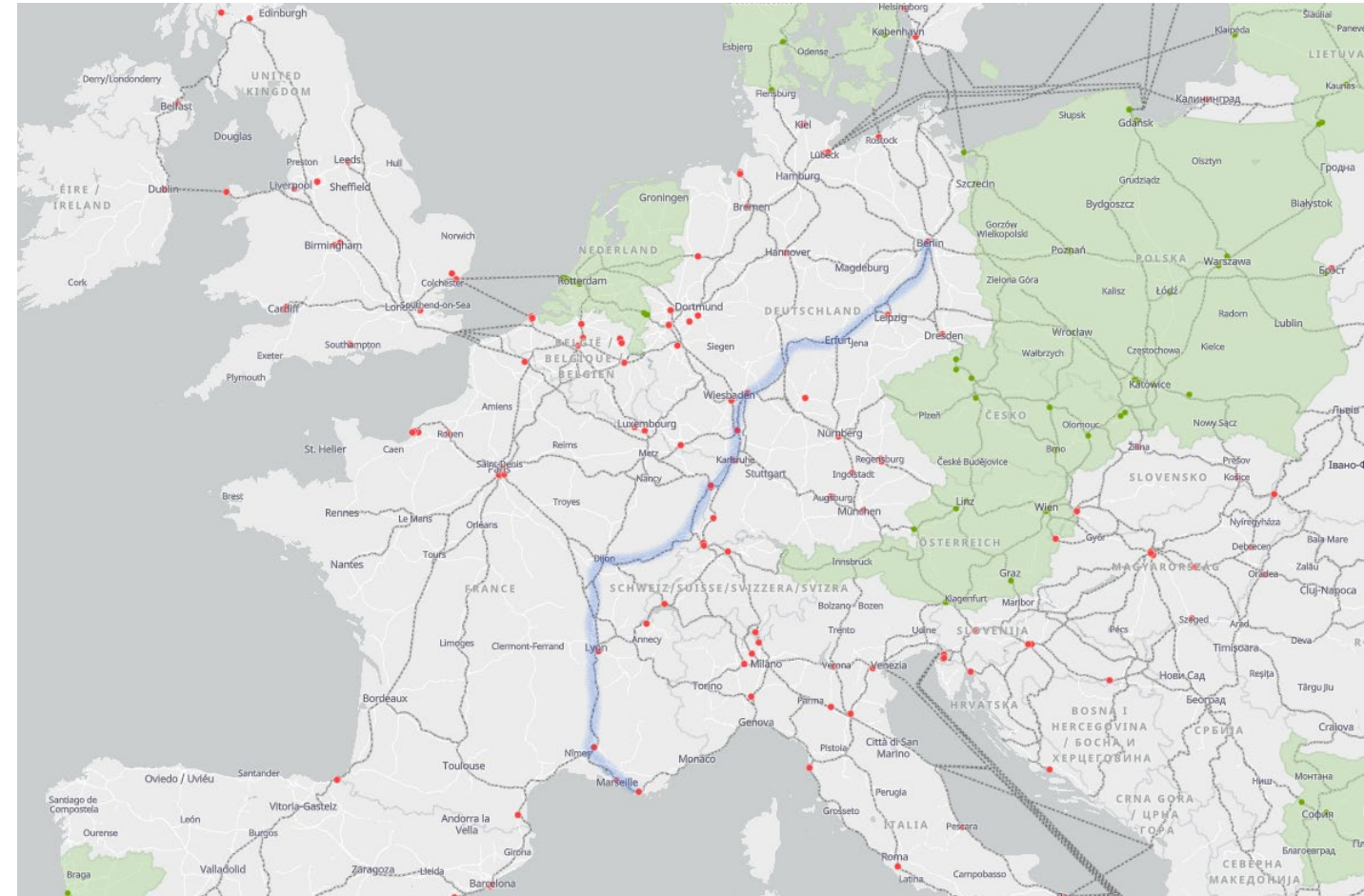
Performance indicators of rail infrastructure services?

EU/EUROSTAT work on measuring performance of rail infrastructure

# Transport cargo flows along corridors



Potential for road to rail shift



Origin-destination tonnage figures (census like traffic data) – is it possible?  
Or something else?