

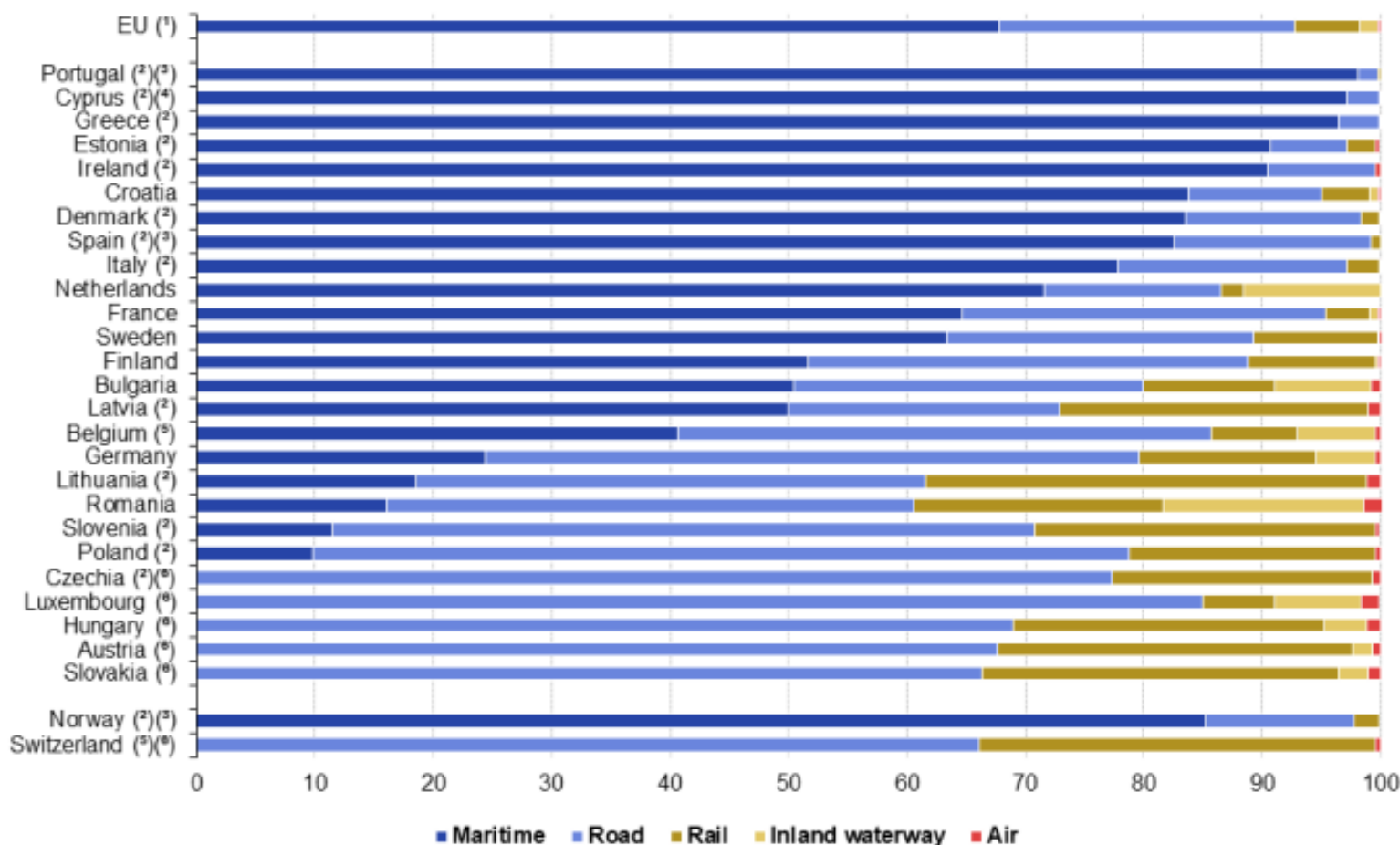
Budapest / November 27th, 2024

# Innovative & Sustainable Rail Logistics



# Modal split of freight transport, 2022

Modal split of freight transport, 2022  
(%, based on tonne-kilometres)

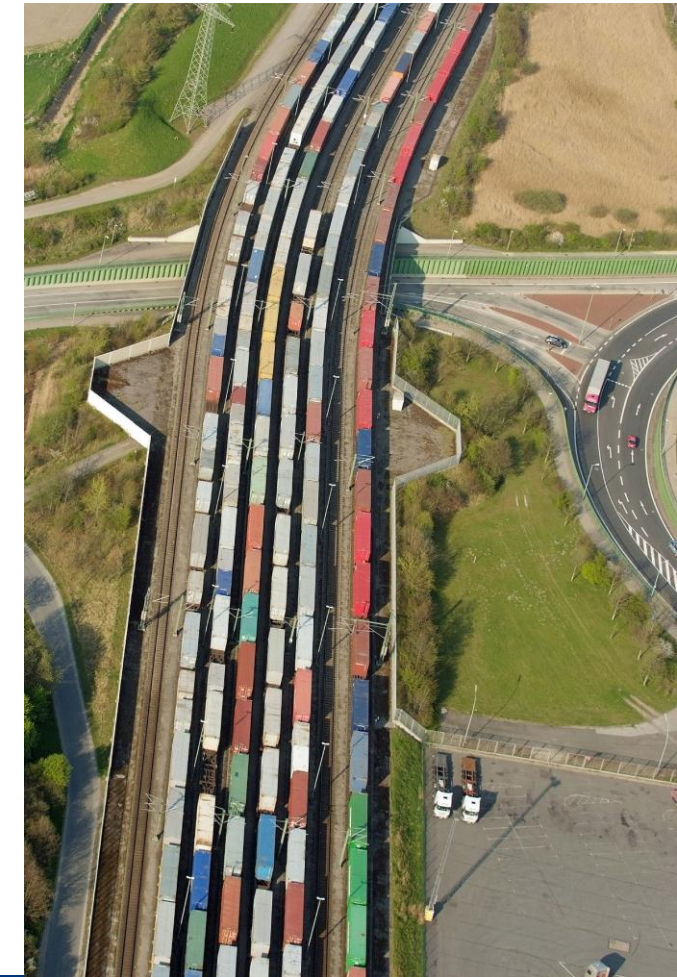


Country	Rail
Austria	30,0%
Belgium	7,3%
Bulgaria	11,2%
Croatia	4,1%
Czechia	22,0%
Denmark	1,6%
Finland	10,8%
France	3,7%
Germany	14,9%
Greece	0,1%
Hungary	26,3%
Italy	2,7%
Luxembourg	6,1%
Netherlands	1,9%
Norway	2,1%
Poland	20,8%
Romania	21,0%
Slovakia	30,1%
Slovenia	28,8%
Sweden	10,5%
Switzerland	33,4%
<b>EU 21</b>	<b>13,78%</b>

Note: no data for Malta. Countries are ranked based on the share of maritime transport. Figures may not add up to 100% due to rounding.  
 (1) Includes Eurostat estimates for rail transport for Belgium but does not include road freight transport for Malta and road international transport of Cyprus (negligible).  
 (2) No inland waterway freight transport or negligible (less than 0.1 % in the total freight transport of the country).  
 (3) Air transport is negligible (less than 0.1 % in the total freight transport of the country).  
 (4) No rail transport.  
 (\*) Eurostat estimates.  
 (\*\*) No maritime transport.  
 Source: Eurostat (online data code: tran\_hv\_ms\_fmmod)

# Optimization in railway transportation

- Maximize gross load per train (up to 2,500 - 2,800 gross tons)
- Connecting flows of single wagons and wagon groups to block trains and even connecting block trains
- Locomotive handover between railway undertakings
- Faster train handover procedures between railway undertakings based on the ATTI (Agreement on Freight Train Transfer Inspection)
- Triangular transports for higher utilization of the equipment



# Innovative equipments

Foldable and therefore stackable container



# Solutions for non-craneable trailers

How to get trailers on the rails: huckepack, horizontally and vertically



# Emission free automotive transport



# Modular solutions: Sggrs 2x40' +



VTG ModuPallet Rails



VTG ModuPallet Tubes



VTG ModuPallet Steel



VTG ModuPallet Wood



VTG ModuBox Bulk



VTG ModuPallet Coils & Steel

# iwagon – the smart wagon



🏆 Award winning 🏆

Innovation of the Year at the 2024 Rail Business Awards

Innovation & Talent at the 2024 Rail Freight Group Awards

Freight & Logistics Achievement of the Year at the 2024 National Rail Awards

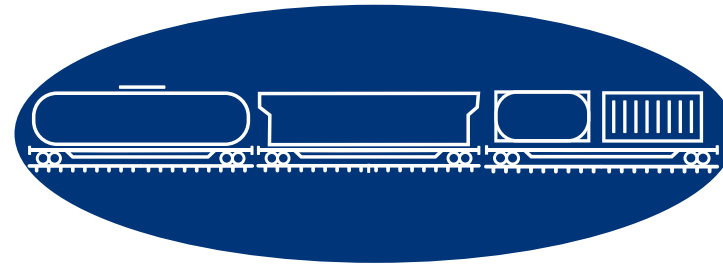


# Digital Services



*“We improve the cooperation, accessibility and efficiency of rail freight and intermodal transport, thus contributing to a significant modal shift to rail.”*

*“Efficient Wagon Rental and Flexible Fleet Management.”*



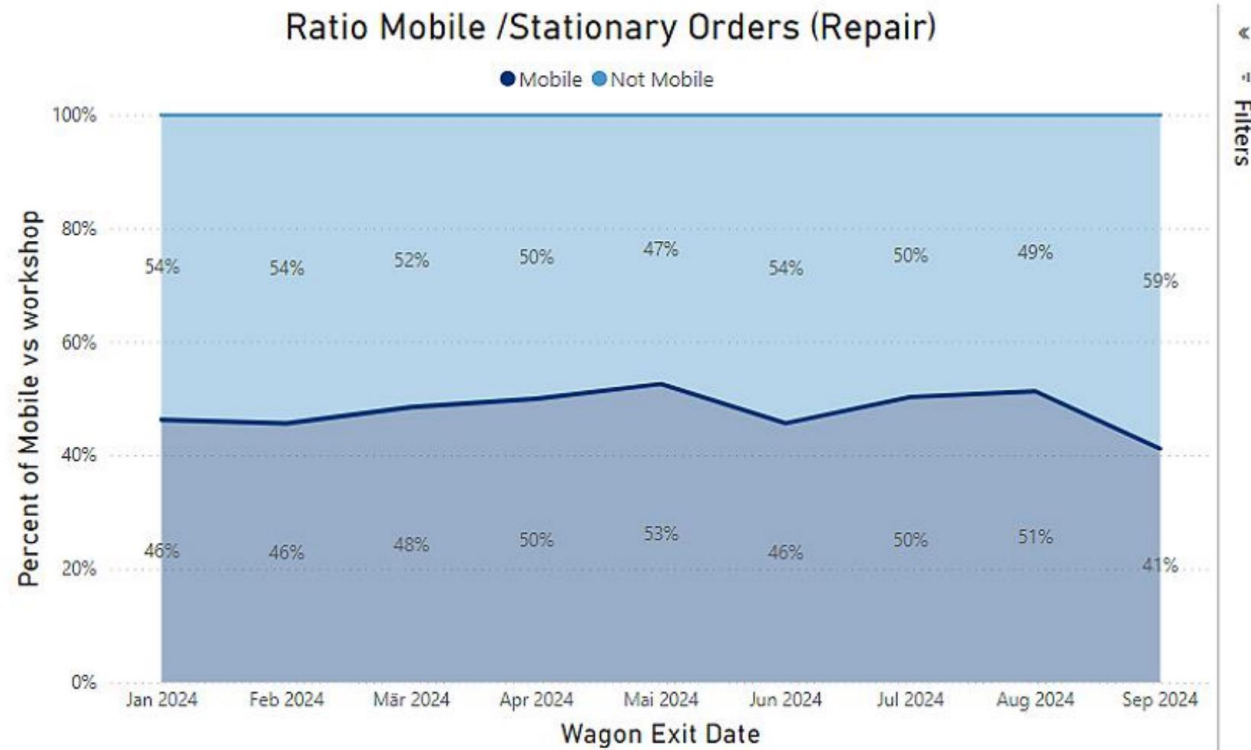
*“RailWatch strives for the vision of gaining a 360-degree view of the rail and thus maximizing the availability of the entire rail system.”*



*“Browse, offer and request railway assets, freight rates, train and workshop capacities.”*

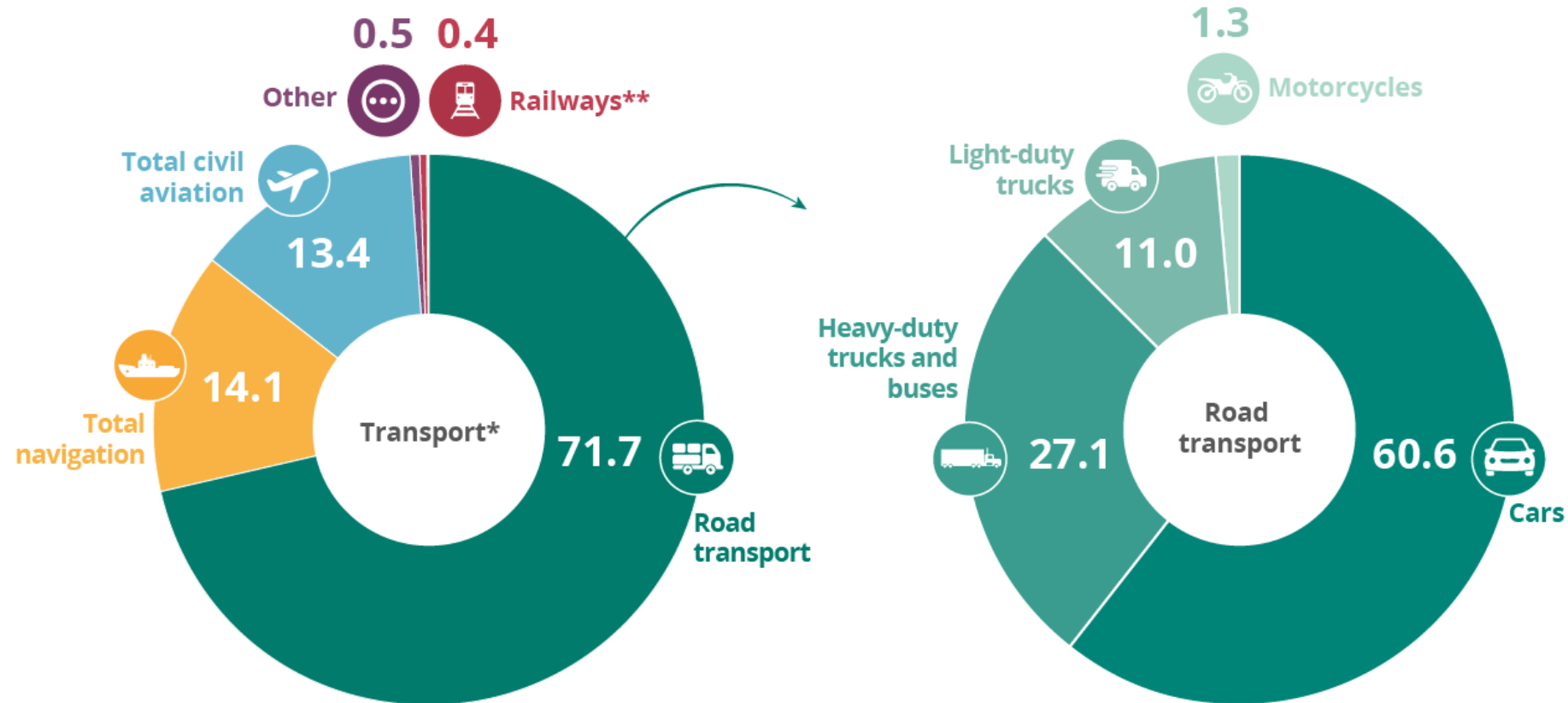
# Wagon repairs – “Better before bigger”

Mobile repairs and workshop network



# Greenhouse gas emissions from transport in the EU

2022



Source: European Environment Agency, <https://www.eea.europa.eu/en/analysis/maps-and-charts/greenhouse-gas-emissions-from-transport>

# Energy efficiency and CO<sub>2</sub> emissions, HU – 2023

Energia mutatók	Hálózati átlag értékek	Retrack Hungaria Kft.
Villamos vontatás részaránya (%)	90,01%	97,32%
Modern vontatójárművekkel felhasznált energia aránya (%)	43,86%	73,47%
Hiteles mérőberendezéssel mért energia mennyiség aránya (%)	7,09%	0,43%
Fékezéskor keletkezett visszatáplált energia aránya (%)	5,5%	10,05%
Villamos vontatás CO <sub>2</sub> megtakarítása	29 359 tonna	25 359 tonna
Felhasznált zöld energia aránya (%)	22,36%	

# “MAKE RAIL EASY” – We strengthen the railways

## Multifunctional solutions



### A strong partner for modular and multifunctional offerings

- The m<sup>2</sup> wagon has a modular design
- By replacing the longitudinal beams, the length of the wagon can be adjusted
- Both ISO containers and special superstructures can be accommodated

## r2L



### A strong partner for non-craneable semitrailers

- The r2L carrier makes non-craneable semitrailers craneable
- No additional ramp or other equipment is needed
- The r2L carrier can accommodate approximately 97% of all trailer types

## Electrified Wagon



### A strong partner for the transport of temperature-sensitive goods

- The SWS PowerBox® harnesses the kinetic energy of wheelsets and feeds it into a generator, which converts it into electrical energy
- Rechargeable batteries ensure that the cold chain is preserved even when the wagon is not moving

## New Energies



### A strong partner for the energy supply of the future

- With our New Energies strategy, we aim to provide you with the best possible advice and support during the transition to sustainable industrial processes
- We offer you solutions for rail transports of CO<sub>2</sub>, hydrogen, ammonia and LNG by rail

## Digitalization



### A strong partner for the digital rails

- Digitalization of the entire fleet with VTG Connector
- traigo: the digital platform for the new rails
- Sensors: increase safety, boost efficiency, avoid damage
- DAC: involvement in key industry initiatives
- FastTrack: “carsharing” principle

# Challenges and Outlook

- Infrastructure works: work now for a better future
- EU-wide incentive programs and subsidies necessary to shift transports from road to rail
- Exchange cast iron brake blocks for LL or K brakes
- DAC (digital automatic coupling)



➔ **Green politics in action not just words!**



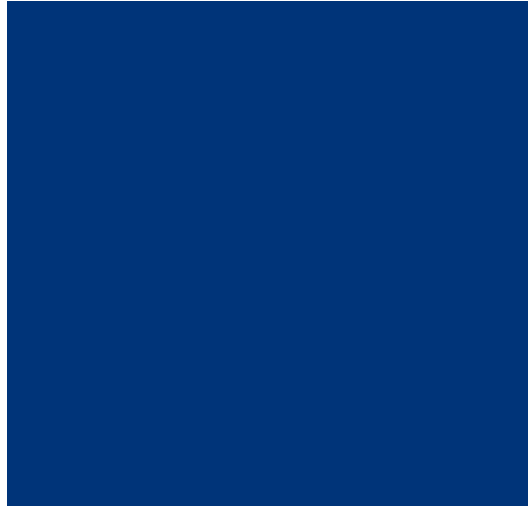
**REAL. GREEN.**   
 **TRANSPORT FOR LIFE.**

869'565

“The key to decarbonization  
is cooperation.”

**Using the strength of each sector and creating solutions together  
for environmentally friendly and feasible transportation  
throughout Europe**

<https://youtu.be/MZEzsIQ7GzI>



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