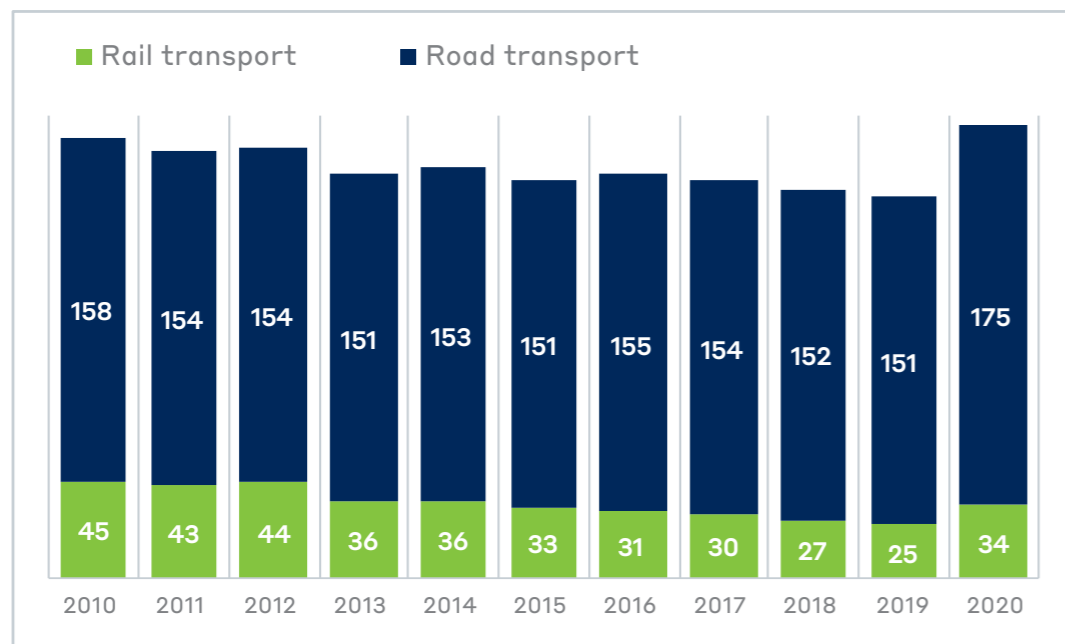
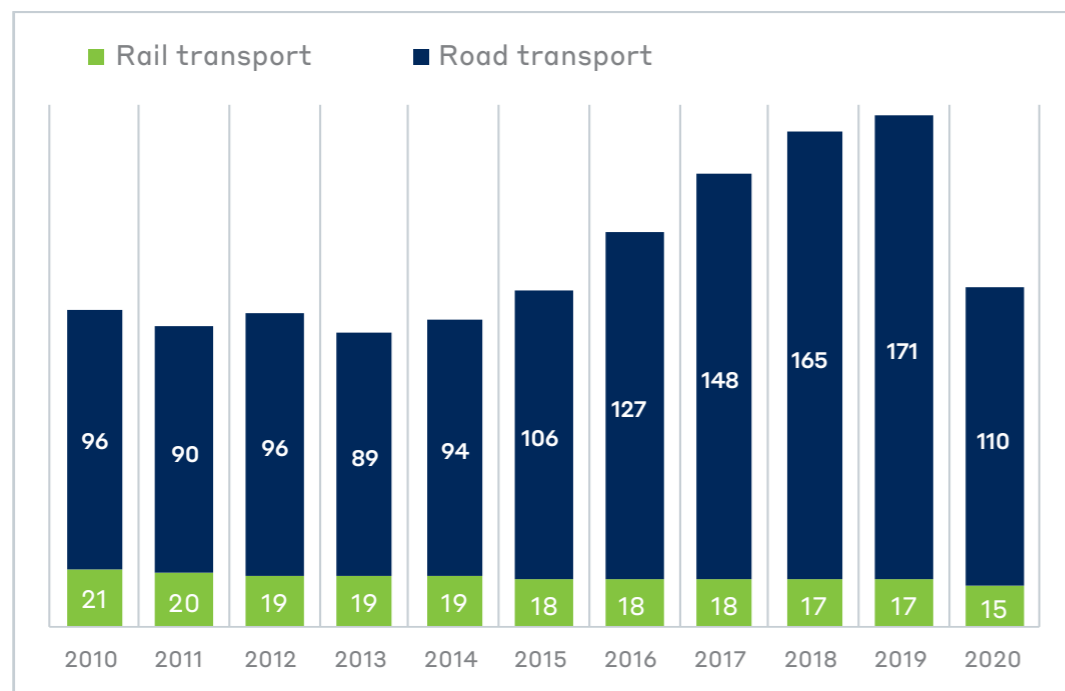


Comparison of CO<sub>2</sub> emissions in **passenger transport** per unit of transportation performance from 2010 to 2020



Comparison of CO<sub>2</sub> emissions in **freight transport** per unit of transportation performance from 2010 to 2020



# High-Speed Lines: Having Respect for the Environment and the Landscape

## OUR GOALS

- Preserve as much green space as possible.
- Replace felled trees with new planting.
- Retain water in the landscape and preserve the biodiversity of animal and plant species.
- Run the HSL in parallel with the existing linear construction to minimise the barrier effect and further subdivision of the landscape.
- Carry out landscaping sensitively with regard to aesthetic, compositional and ecological significance.

**WE ARE INTERESTED  
IN YOUR OPINION**

Write to us at  
vrt@spravazeleznic.cz

Správa železnic, státní organizace  
High-Speed Lines Construction Management  
V Celnici 1028/10  
110 00 Praha 1 - Nové Město

As the construction of major transport structures is influenced by a large number of factors that cannot be predicted in advance, the data are only indicative.  
Photo documentation and visualisations were taken from Rusina Frei architekti and Správa železnic.  
The data source for the graphs was obtained from the Scientific and Technical Proceedings of Správa železnic, No. 6/2022.



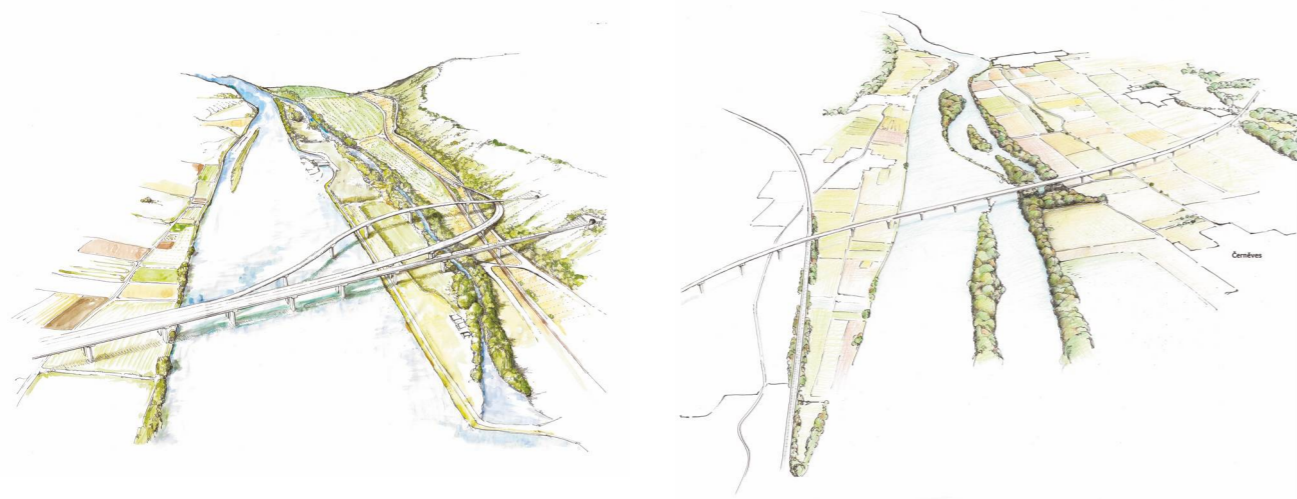
spravazeleznic.cz



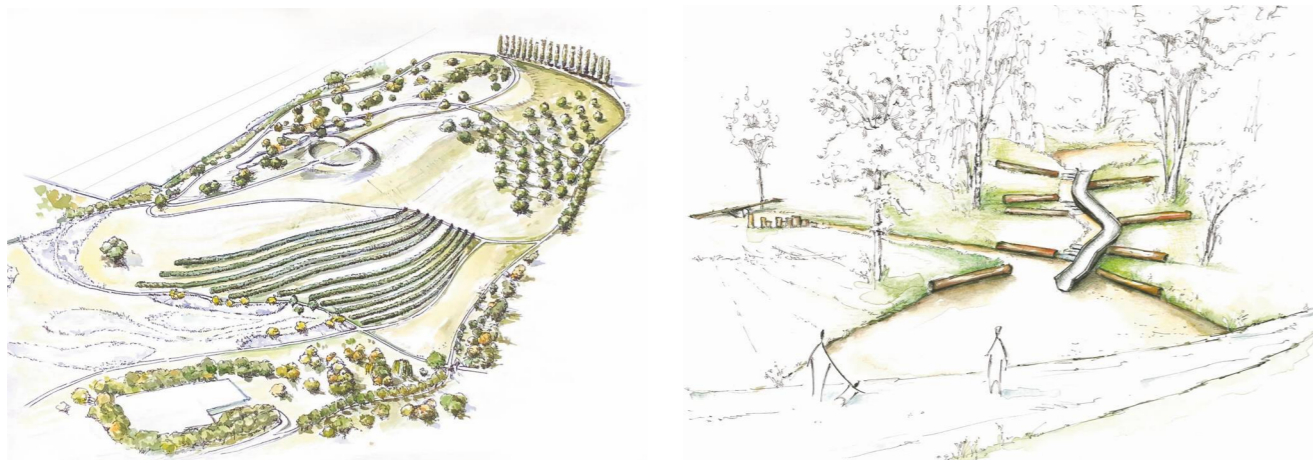


**High-Speed Lines are a sustainable, climate-friendly way to travel and, once built, will become a natural part of the landscape around us.**

**Great attention is paid to the environment, from the first design work to commissioning, so that the line does not disturb the aesthetics and harmony of the landscape and the impact of these values on the human psyche.**



*Two variants of incorporating the line into the landscape of the Elbe River.*



*Landscape design for the planned High-Speed Line in Praha-Běchovice.*

**The line is integrated into the landscape, so as not to disturb it in any way. Thanks to the designed interaction elements, the resulting buildings are environmentally friendly. These include linear and barrier greenery, hedgerows, green belts, retention biotopes or soakaway parking pavements, which can have a major impact on the microclimate and water cycle in the landscape.**



*Bridges, culverts or so-called ecoducts are proposed for the surface route. Their purpose is to allow easy passage for all animals.*



*The green groves serve as a natural shelter for small animals and larger animals.*



*A natural reservoir created with the utmost respect for the landscape will become an oasis of life.*



*The maintenance base becomes an aesthetic part of the landscape thanks to its gradual connection with the terrain.*



*Landscaping of the large car park and surrounding area. Rainwater does not end up in the sewer system, but slowly infiltrates and irrigates the greenery and replenishes the groundwater level.*

