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Digital Area for Networking
Teachers and Educators



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External costs of transport



External costs of transport

- **External costs** are costs generated by **transport users** and **not paid** by them but by the society as a whole.
- They have monetary value.



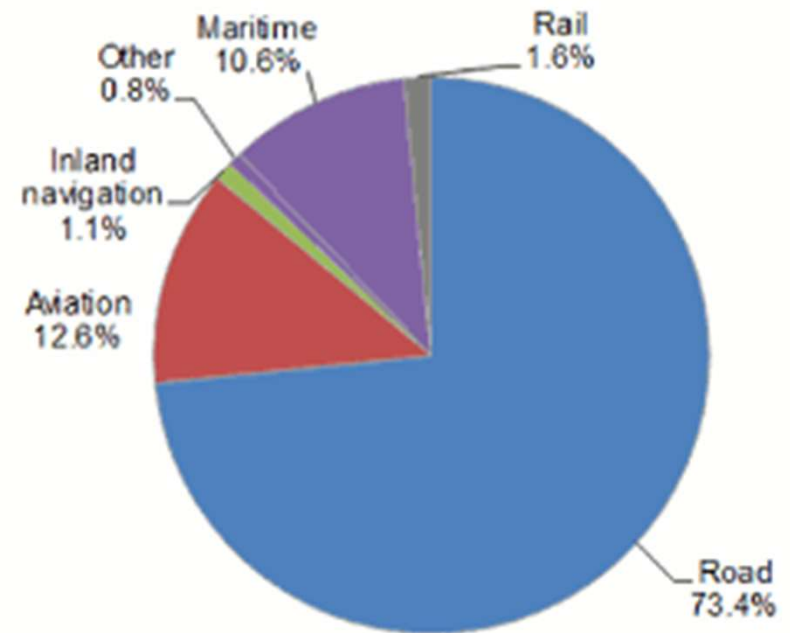
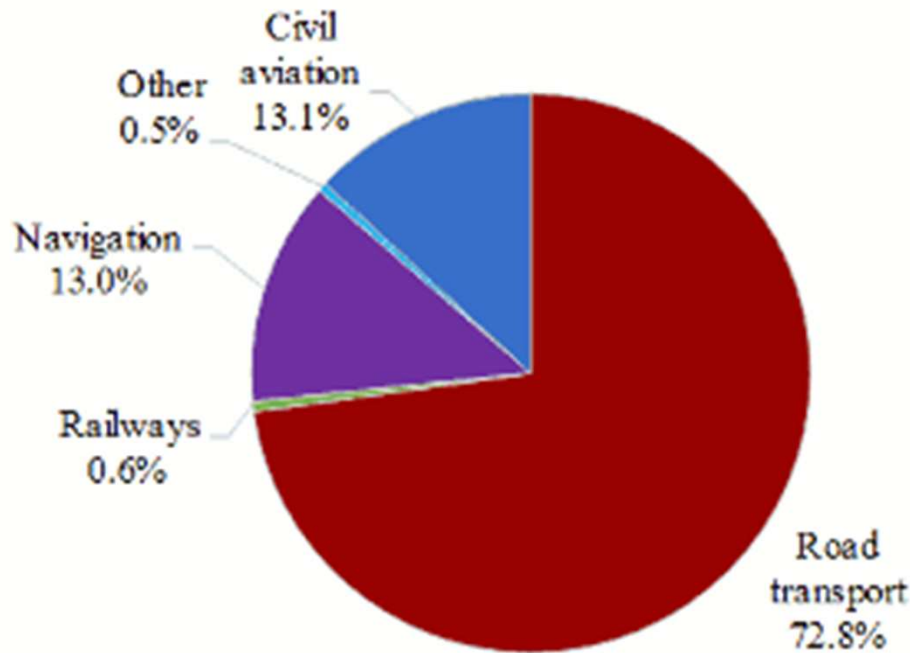
External costs of transport

- congestion,
- air pollution,
- water pollution,
- climate change,
- accidents,
- noise
- land use,
- costs for nature and landscape.



Greenhouse gas emissions from transport by mode

Share of transport energy demand by mode (%)





Transport and climate change

- Transport is responsible for a quarter of the EU's greenhouse gas emissions, with road transport representing the greatest share (72% in 2019).
- Climate and energy policies in the EU have contributed to significant reductions in greenhouse gas emissions in all sectors, except transport: total transport greenhouse gas emissions increased by more than 33% between 1990 and 2019 and road transport emissions by almost 28%.

Source: Transport and environment report 2021. Decarbonising road transport — the role of vehicles, fuels and transport demand, EEA Report, No 02/2022



Sustainable transport system

The EU Transport Council has defined a sustainable transport system as a system that:

- allows the basic access and development needs of society to be met safely and in a manner consistent with human and ecosystem health, and promotes equity within and between successive generations.
- is affordable, operates fairly and efficiently, offers choice of transport mode, and supports a competitive economy, as well as balanced regional development.
- limits emissions and waste within the planet's ability to absorb them, uses renewable resources at or below their rates of generation and uses non-renewable resources at or below the rates of development of renewable substitutes while minimising the impact on the use of land and the generation of noise.



Sources

- EU Transport Council, COUNCIL RESOLUTION OF 4/5 APRIL 2001 ON THE INTEGRATION OF ENVIRONMENT AND SUSTAINABLE DEVELOPMENT INTO THE TRANSPORT POLICY [https://www.europarl.europa.eu/RegData/docs_autres_institutions/conseil/2001/07329/CONS_CONS\(2001\)07329_EN.doc](https://www.europarl.europa.eu/RegData/docs_autres_institutions/conseil/2001/07329/CONS_CONS(2001)07329_EN.doc)
- Transport and environment report 2021. Decarbonising road transport — the role of vehicles, fuels and transport demand, EEA Report, No 02/2022



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