

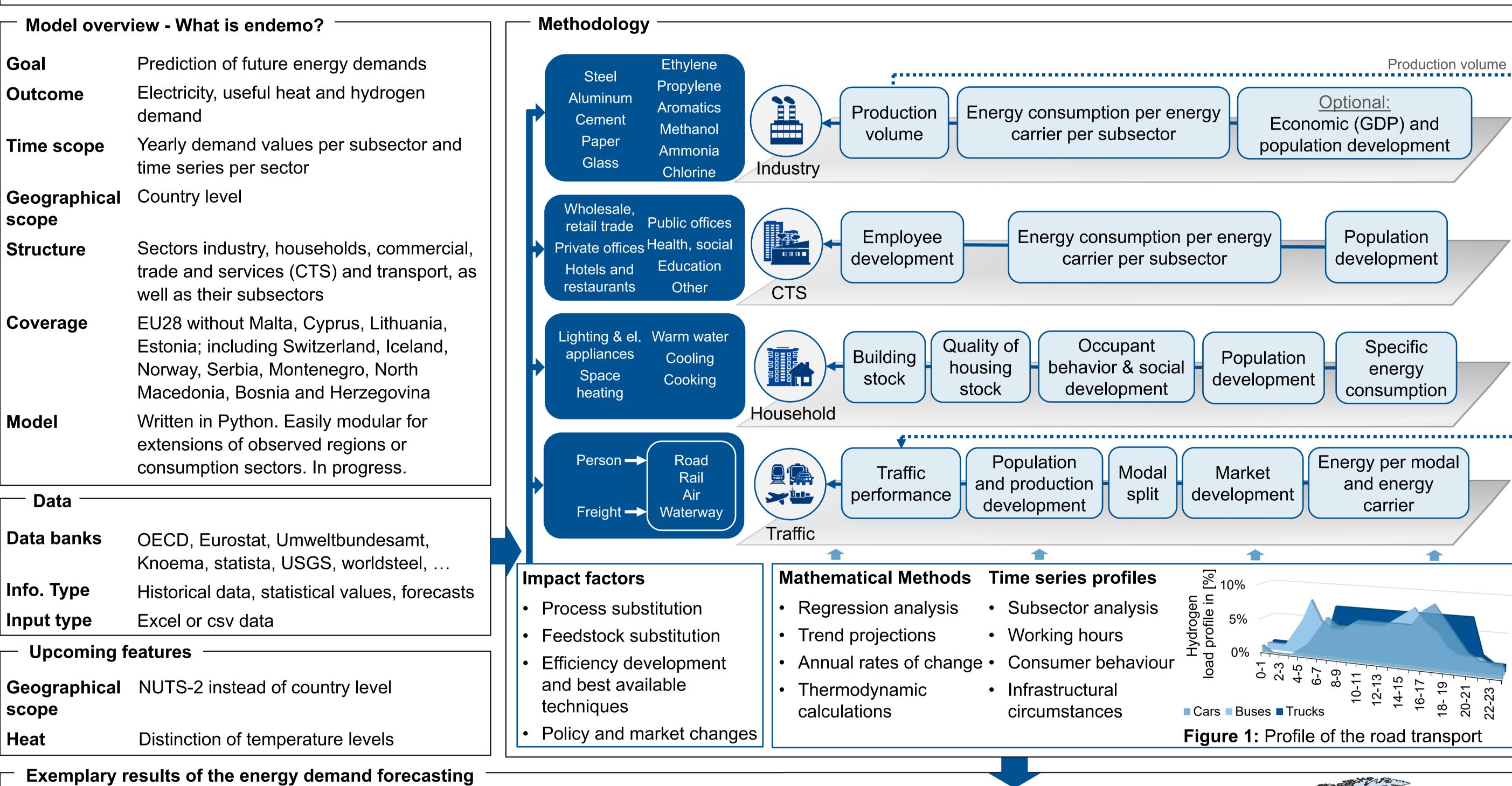
endemo - Energy Demand Modeling for Europe

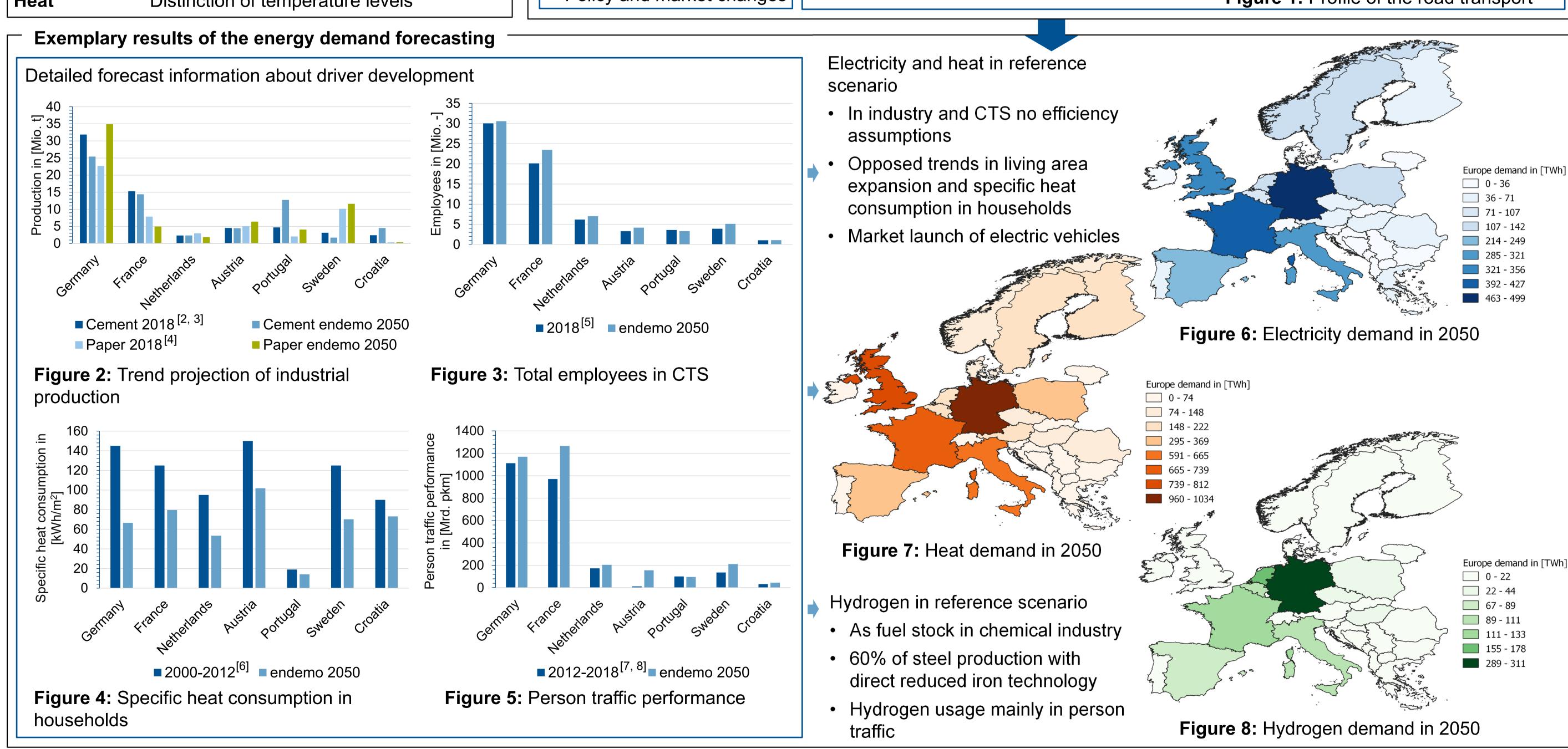
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Background

- Optimization and sustainable development of energy systems require information on characteristics and intensity of future energy demand.
- In the past, modelling activities focused on the supply side. There are less deployed methodical approaches for determination of energy demand development. [1]
- Knowledge of the useful energy demand enables forecasting of energy carriers usage and final energy demand.
- The aim of *endemo* is to Europe-wide forecast a long-term demand on useful heat, electricity and hydrogen.





References

- [1] M. Wietschel, T. Fleiter, S. Hirzelet. (2017). Modellierung der Energienachfrage der wesentliche Baustein für zukünftige Energieszenarien. KIT Scientific Publishing. Karlsruhe
- [2] USGS science for a changing world. (2020, May 19). National Minerals Information Center. [Online]. Available: https://www.usgs.gov/centers/nmic/bureau-mines-minerals-yearbook-1932-1993
- [3] KSH Hungarian Central Statistical Office. (2020, May 25). Cement production (2000–) [million tons]. [Online]. Available: https://www.ksh.hu/docs/eng/xstadat/xstadat_annual/i_int068b.html.
- [4] eurostat. (2020, July 14). Total paper and paperboard production. [Online]. Available: https://ec.europa.eu/eurostat/databrowser/view/tag00074/default/table?lang=en.

- [5] OECD Data [2021, Marc 29]. Employment. In Services-Data. [Online]. Available: https://odyssee.enerdata.net/database/
 [6] ODYSSEE/ MURE Databases. (2015, June). Energy Efficiency Trends and Policies in the Household and Tertiary Sectors An Analysis Based on the ODYSSEE and MURE Databases. [Online]. Available: https://www.odysseemure.eu/publications/archives/energy-efficiency-trends-policies-buildings.pdf
- [7] OECD Data. (2019). Passenger transport. [Online]. Available: https://data.oecd.org/transport/passenger-transport.htm.
 [8] UNECE. (2020). 2020 Transport Statistics Infocards. United Nations Economic Commission for Europe. [Online]. Available: https://unece.org/DAM/trans/doc/2020/wp6/_Infocards_ENG.pdf