Master’s thesis

Forecasting the future mobility demand of Bavaria

Background

The new STROM project promoted by the Bayerische Forschungsstiftung will investigate the transition to green electricity in the heating and mobility sector. (BFS, more information under https://forschungsstiftung.de/assets/pressemeldungen/Forschungsstiftung_jetzt_2020_4.pdf)

The mobility sector did not undergo major changes in the last decades; only recently electric cars became more popular and caught up with the market shares. For instance, in the year 2020, more than 50% of all new cars in Norway were electric cars.

Goals

The master thesis should develop a projection of number and distribution of electric cars in Bavaria in the coming decades. The following points need to be covered:

– Collection of data sources about mobility in Bavaria
– Short description of electric car and charging options
– Literature review about traffic projections under the new paradigm of more home-office and autonomous driving
– Development of a simple model
– Application of the model on the level of counties in Bavaria
– Power forecast from electric cars on the level of counties

Contact

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