Project Group - 11

Members: Mika Dawud, Luke Tros, Florine Vermeer, Brigitte Nauta and Lisette de Langen

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Research Objective

Requires data modeling and quantitative research in Transport, Infrastructure & Logistics

Main research question: What is the effect of the pump prices on the travel distance of different modes between 2010 and 2017?

Subquestions:

- How has the pump prices changed between 2010 and 2017?
- How has the travel distance for car and train changed between 2010 and 2017?
- What is the difference in effect between the province with least and the most travel distance per month?

Contribution Statement

Be specific. Some of the tasks can be coding (expect everyone to do this), background research, conceptualisation, visualisation, data analysis, data modelling

Mika Dawud:

Luke Tros:

Florine Vermeer:

Brigitte Nauta:

Lisette de Langen:

Data Used

Both of the data files that are used, are from Centraal Bureau voor de Statistiek (CBS).

Data File 1 '80416ned_UntypedDataSet_02102024_093324.csv' gives the pump prices per day from 2006 to 2024. [1]

Data File 2 '83498NED_metadata.csv' and '83498NED_UntypedDataSet_02102024_101220.csv' gives the total travel distances and per mode. [2]

Source:

[1] https://opendata.cbs.nl/statline/#/CBS/nl/dataset/80416ned/table?ts=1727428179572

[2] https://opendata.cbs.nl/#/CBS/nl/dataset/83498NED/table?ts=1727857444917

Data Pipeline

1. Understand the data and know what it consist of.
2. Data processing: Filtering the data to the data that is needed. Example: change the data to pump prices per month instead of per day.
3. Vizualise: Presenting the data and the results in graphs.