Research Proposal Group 1 - TIL Programming - TIL6022

Willemijn ten Voorden - 6101275 Frederiek Backers - 4704452 Annerieke Ohm - 4852990 Nikolaos Tsironis - 6008712

This research proposal is made for the TIL Programming TIL6022 course project. We focus on an application project on mobility trends using open-source data, making this a societal project. We were inspired by the current discussions on introducing rush hour tax for train tickets in the Netherlands (source: NS wil voorstel spitsheffing beperken tot €2,50 per rit (businessinsider.nl)).

Research Question: "What are the main attributes of people choosing to travel by train during weekday rush hour (07:00 - 09:00 & 16:00 - 18:00) in the Netherlands since 2018?"

To answer this research question we will do some data processing, quantitative analysis and visualize our results.

Data:

The data is obtained from CBS (Central Bureau for Statistics Netherlands) that includes mobility trends and travel motives of individuals.

- StatLine Mobiliteit; per persoon, persoonskenmerken, motieven en regio's (cbs.nl)
- <u>StatLine Mobiliteit; per persoon, persoonskenmerken, vervoerwijzen en regio's</u> (cbs.nl)
- <u>StatLine Mobiliteit; per persoon, verplaatsingskenmerken, reismotieven, regio's</u> (cbs.nl)
- <u>StatLine Mobiliteit; per persoon, verplaatsingskenmerken, vervoerwijzen en regio's (cbs.nl)</u>
- StatLine Mobiliteit; per persoon, vervoerwijzen, motieven, regio's (cbs.nl)

Scale limitations:

- Geographical boundary: The Netherlands

- Travel mode: train

- Time scale:

Rush hour: (07:00 - 09:00) & (16:00 - 18:00) on weekdays

Data since 2018