

New applications of Open Data from Rijkswaterstaat



Problem description

The Dutch highway road authority, Rijkswaterstaat, is standardizing their network data and traffic data. Under the ShiVi project, a monthly network is produced consisting of all road sections that are managed by the national government. In collaboration with the National DataPortal Road Traffic (NDW), RWS is currently working on delivering traffic data that can be linked directly to the network.

The Traffic Data Basefile (Dutch: Basisbestand Verkeersgegevens or BMG) is produced every 5 minutes and contains data of the past 5 minutes: (1) average flow per road segment (from the induction loops) and (2) average speeds per road segment (based on floating car data, for the entire network).

It is expected that in addition to the Shivi network, the BMG will soon be published as open data. We see opportunities for performing (automated) analyses for the main road network, for example analysis of vehicle loss hours and other traffic performance indicators, analysis of bottlenecks or analysis of safety or quality of life indicators

Assignment

This project is a joint project between Transport & Planning (civil engineering) and Arane Adviseurs (www.arane.nl). The following are possible research questions:

- What are the possibilities of these open data sources for the aforementioned analyses?
- What is the quality of the data?
- Are there simple methods that provide reasonable estimates of missing values at parts of the network (using a pragmatic estimation method)?

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