

Background

Triona's distance service, distance.triona.se, calculates the best route based on the road's and the vehicle's attributes. A major improvement would be to also include traffic, based on statistics.

Description

This thesis work addresses one or two informatics or MSc students. The work shall normally be performed to at least 50% in Triona's premises at any of our office locations. Working hours are normal office hours with flextime.

The task consists of investigating and using real time traffic data to build traffic statistics. Since there are few available sources for traffic statistics, the most feasible solution seems to be to fetch real time data and build statistics over time. The aim of the thesis is to investigate different sources for real time traffic data and find ways to build statistics. There are several aspects to be considered:

- Cost of the data
- Geographical extent (distance.triona.se covers most of north-western Europe)
- Data quality
- Data format, effort to calculate statistics

If time allows the statistics can be tested by using it to predict travel times in the distance service.

Result

The result is presented as a report describing the data sources with a discussion about their feasibility, individually and in combination, to use for creating traffic statistics for north-western Europe. The results in the report shall be validated with a prototype software that builds statistic over time from the recommended sources.

Budget

Triona supplies a supervisor and assures that the students have appropriate tools (computer etc.) and a workplace. Costs for traffic data are covered by Triona, but there is of course a cost limit where data is not affordable and thus not interesting for the study.