

Internship at Trivector Traffic

With focus on the GIS analysis of TRavelVU data

My internship was at a company called Trivector Traffic, a consulting firm that focus on helping clients develop sustainable transportation solutions. During my 10 week internship I have mainly worked with the GIS analysis of TRavelVU data. TRavelVU is an app developed by Trivector Traffic and constructed to make travel habit surveys more detailed, efficient and informative. This app collects GPS-tracks from users and distinguishes the type of transport or activity related to the tracks. Multiple variables are linked to the GPS-tracks as attributes; generating a wide range of interesting GIS analysis of the data.

Before I started analyzing the data I had to do some data processing to get data in a desirable format. This included the process converting the GPS-tracks from GeoJSON to shapefiles, joining data in ArcGIS so that the shapefiles where assigned all attributes, deleting the GPS-tracks that were wrong in some way as well as making queries to exclude undesirable data. The TRavelVU analyzes I performed included statistics and maps of where and how far away from their workplace users live, what activities users do and how they travel to and from their workplace, which roads users travel most and least frequent and which roads that has had the highest number of unique travelers; regarding certain transportation types.

It has been a rewarding and informative experience to be an intern at Trivector Traffic; from which I have learned to use new tools and methods when handling and analyzing data.