Miovision

Introduction

With Miovision hardware installed at an intersection, cities, municipalities and departments of transportation can collect all sorts of traffic data. Two of our most powerful datasets are our Continuous Turning Movement Counts (the number of vehicles moving through an intersection at any point in time), and our Travel Time data (how long it takes to go from one intersection to another).
Today, cities use these data sets to identify problems within their own networks, optimize the timing of their network of signals, make long-term planning decisions and a whole lot more. As it stands today, our datasets and tools are limited to analyzing data from one city/region/department of transportation at a time. For example, Travel Time is only calculated between intersections within a customer's organization, and never between organizations. But wouldn't it be cool if we could?

The Challenge

We know that traffic flows from one city to the other, what we don't know is the impact and value of using data from both cities. We want to see what you can come up with!

We've prepared two datasets from 7 intersections in both Detroit (4) and Windsor (3). The first dataset is Turning Movement Count data for all 7 intersections. The second is a novel dataset where we, for the first time, calculate Travel Time between not just two cities, but two *countries*. For each Windsor intersection, we've compiled Travel Time data to each Detroit intersection and vice versa.

We want to see what you can hack together with this data, and other data. Some ideas include

- Can we use turning movement count data to predict cross-border travel time?
- Can we use TMC and/or travel time data to identify different events or conditions for travelling across the border?
- Are there publicly available datasets that can be combined with these datasets?

But we don't want you to stifle your creativity on this; come up with your own ideas.

The Metric

The best hacks and projects will:

- Focus on cross-border impact
- Use data from both Windsor and Detroit
- Provide accurate results or data