

Analysis and Visualization of Brno Traffic Data



Author: Magdaléna Ondrušková

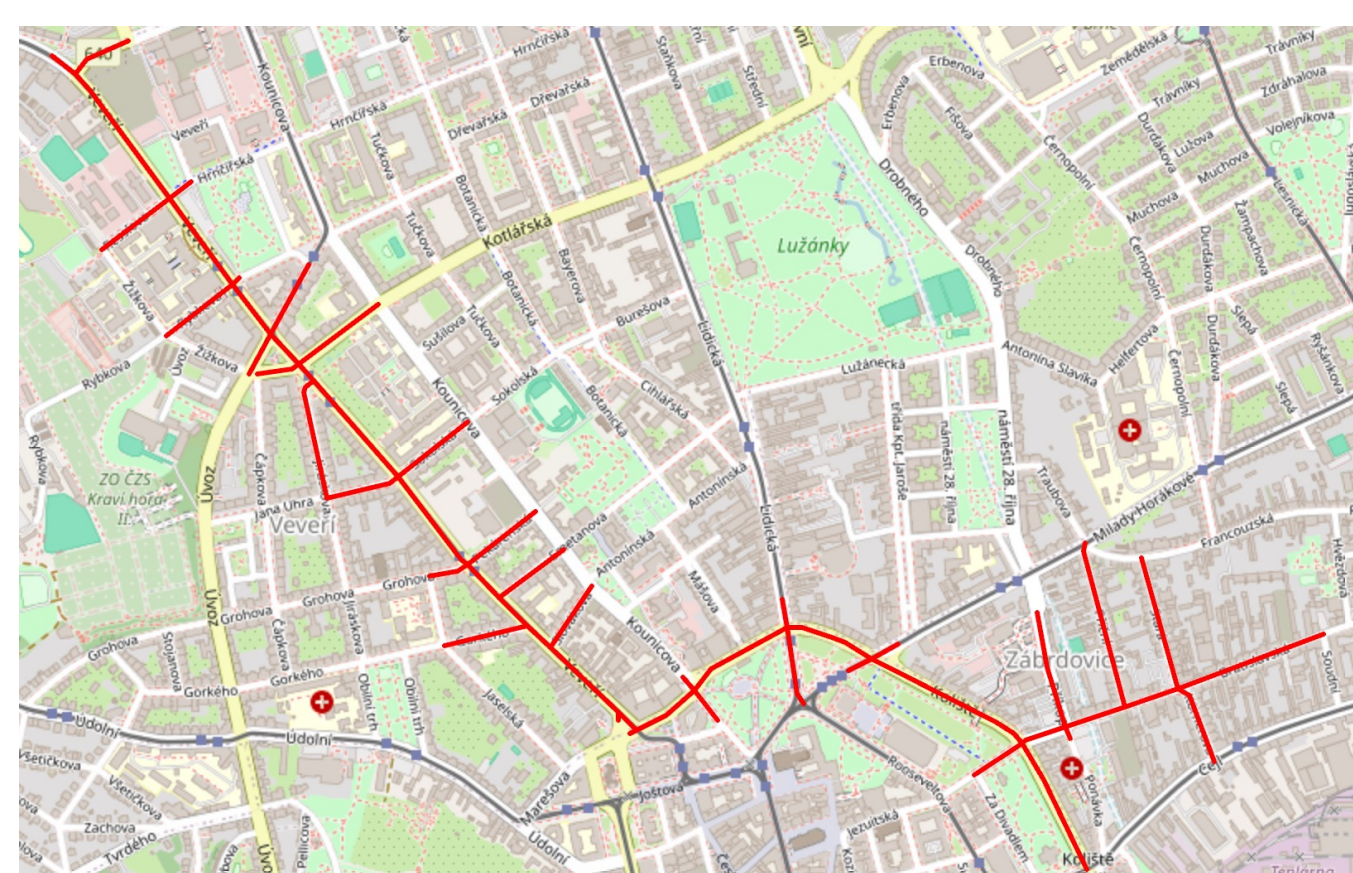
Supervisor: Ing. Jiří Hynek Ph.D.

OBJECTIVES AND MOTIVATION

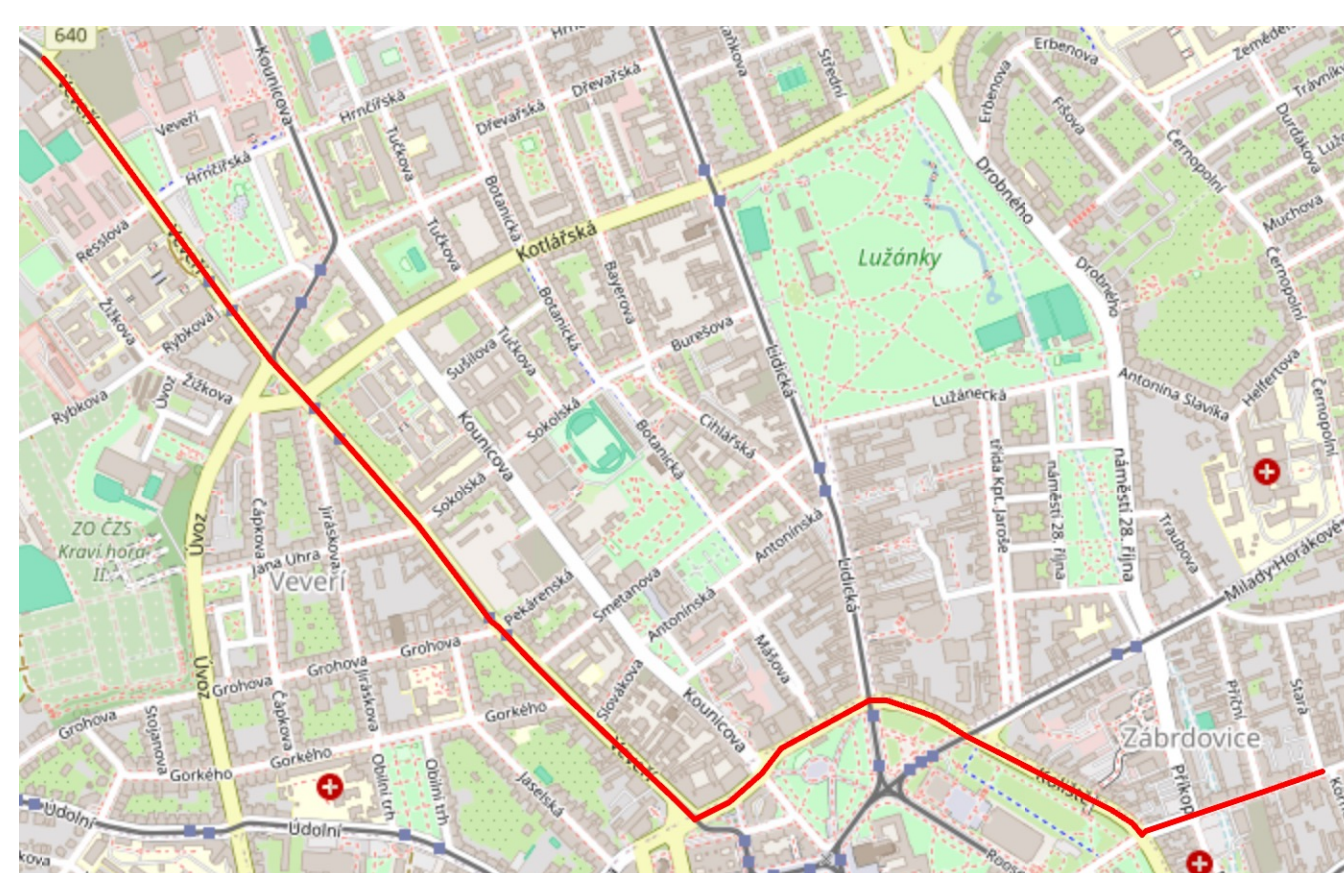
- Improving traffic and commuting time in municipality
- Understanding the impact of different traffic incidents on traffic
- Comparing traffic situation before and after some major change, eg. opening another part of big city ring
- Creating a tool with main focus on analyzing traffic data and visualization on map and dashboard
- Allowing user to interact with map – with selection of streets, routes etc.

DESIGN OF THE SOLUTION

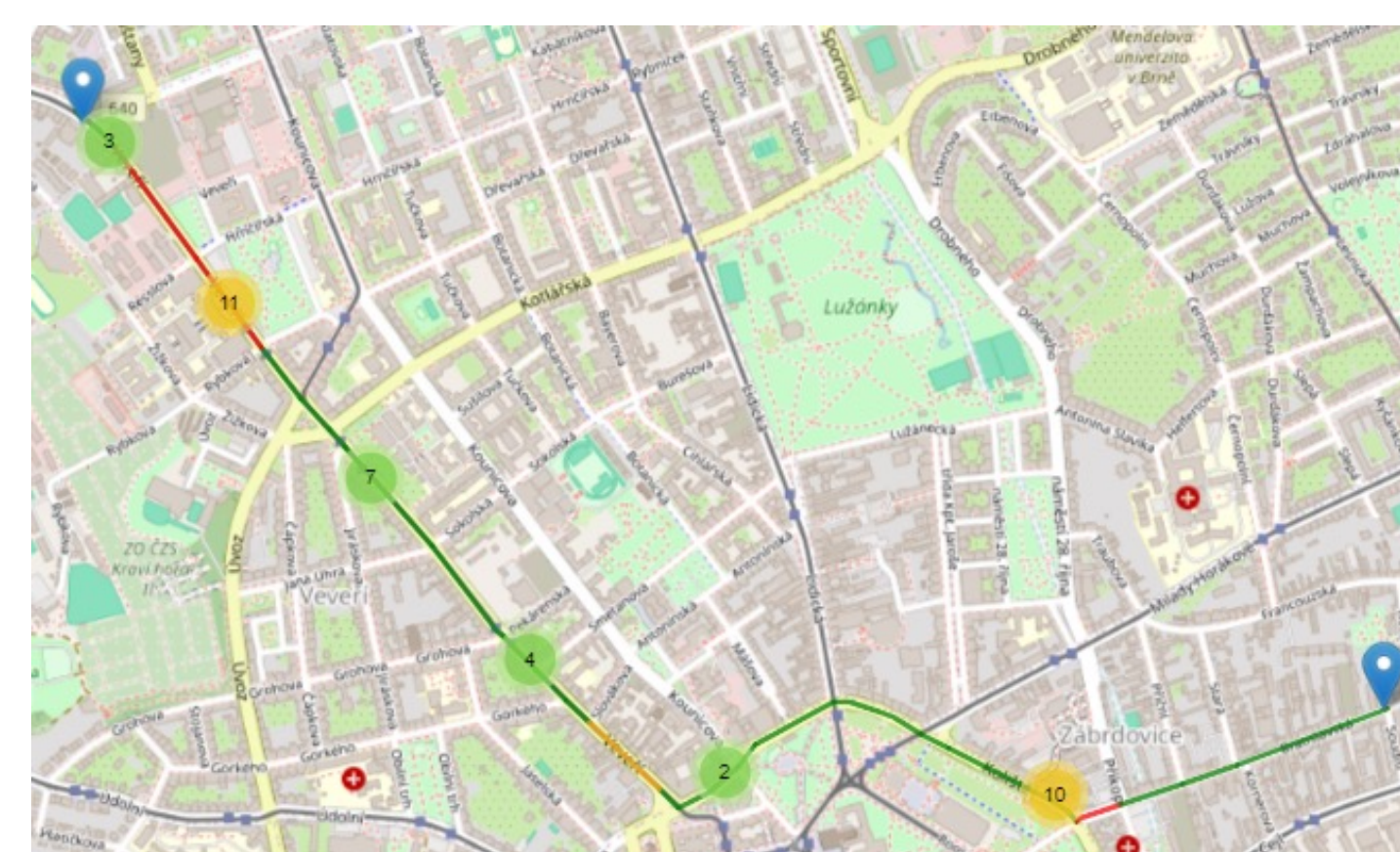
Figure 1: Display of traffic jams and events from Waze on the user-selected route



1. Mapping route on dataset containing streets parts



2. Filtering mapped streets parts to contain not-point intersection of route



3. Drawing traffic jams and events from Waze on selected route

RESULTS

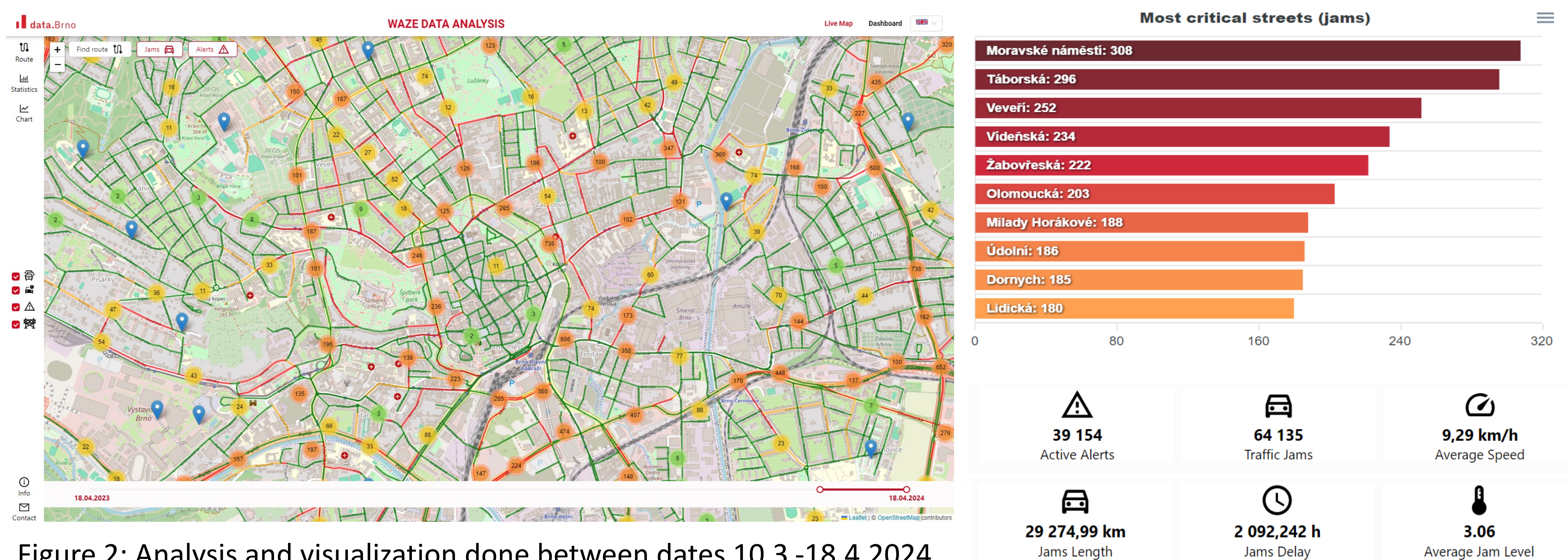


Figure 2: Analysis and visualization done between dates 10.3.-18.4.2024

