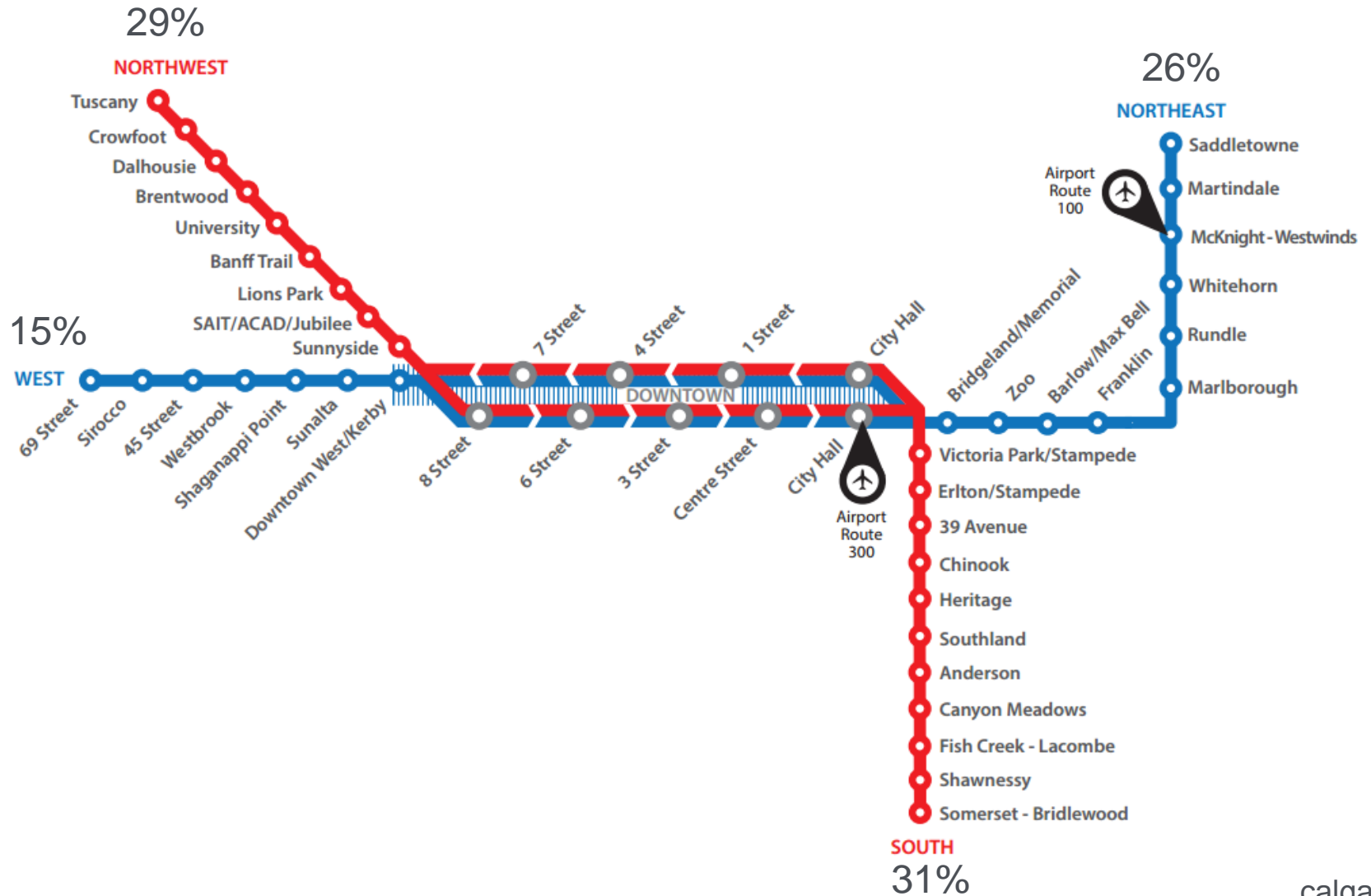


Impact of a Light Rail Crossing on Vehicle Travel Times

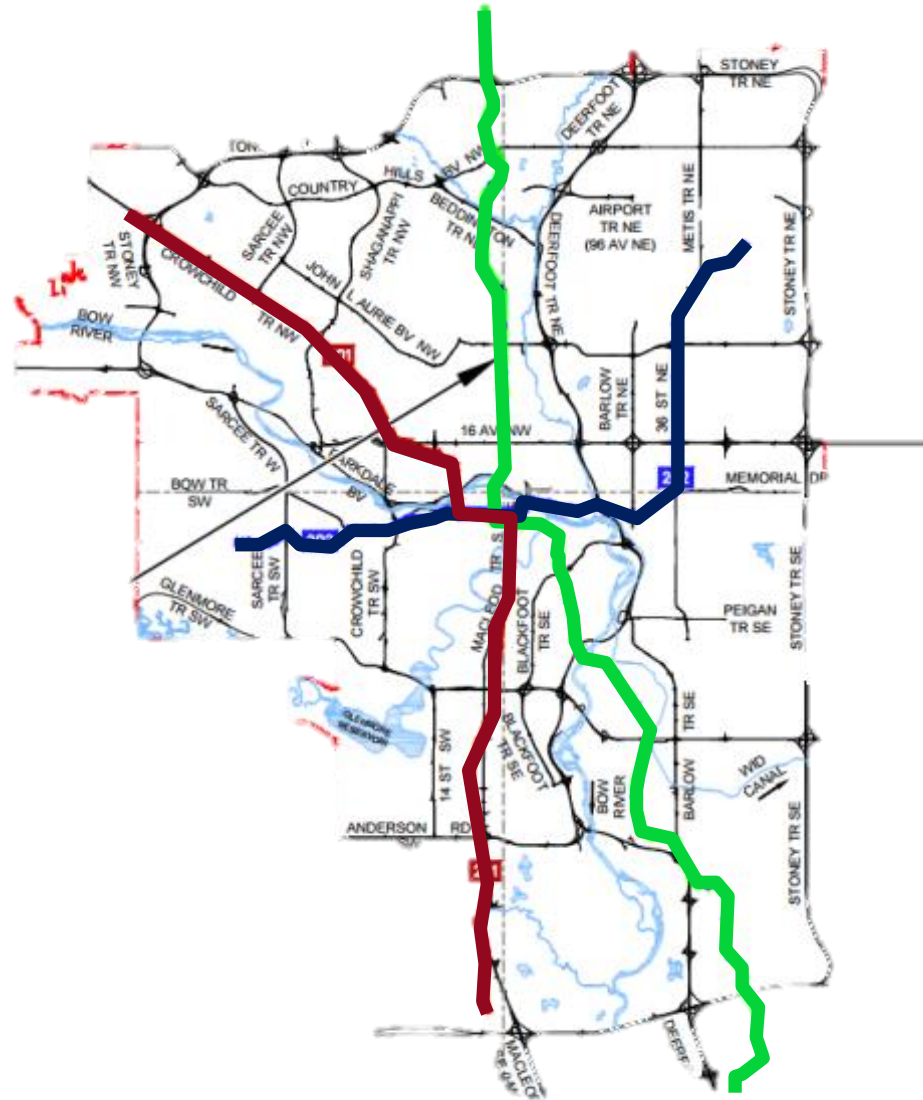


Brian Gaas
Senior Data Analyst
Data and Forecasting Division

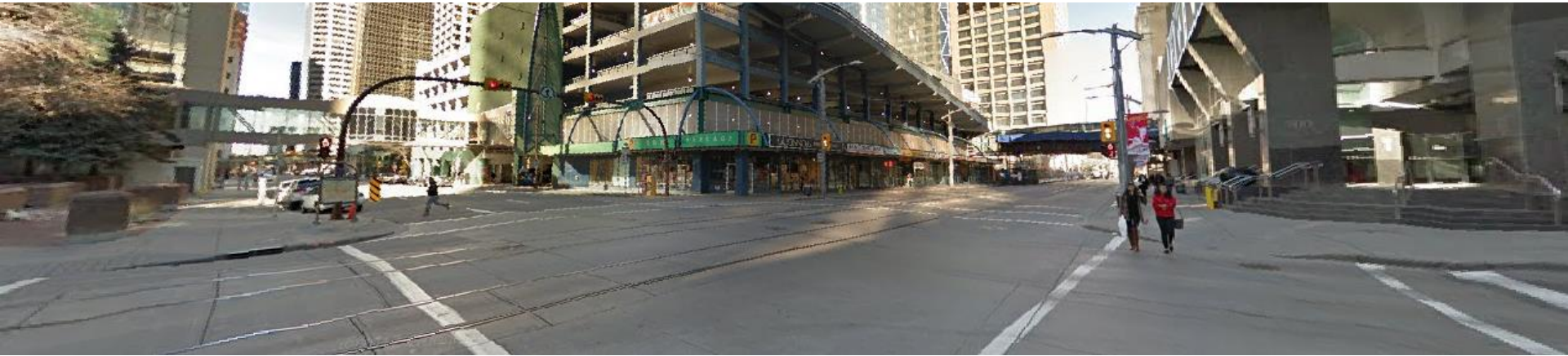
City of Calgary's C-Train System



Green Line Expansion



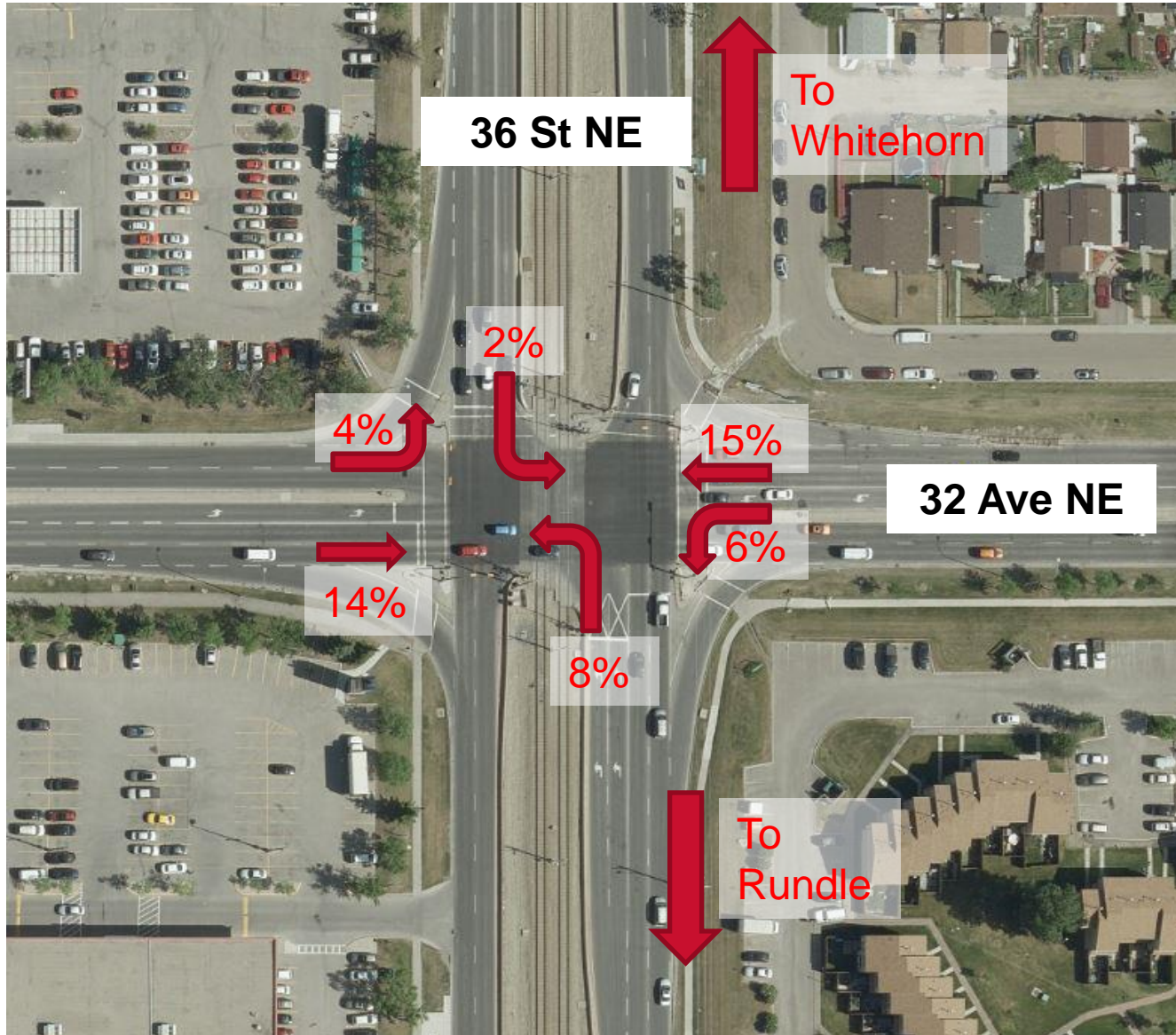
Multimodal Cohabitation



Multimodal Cohabitation



36 St and 32 Ave NE

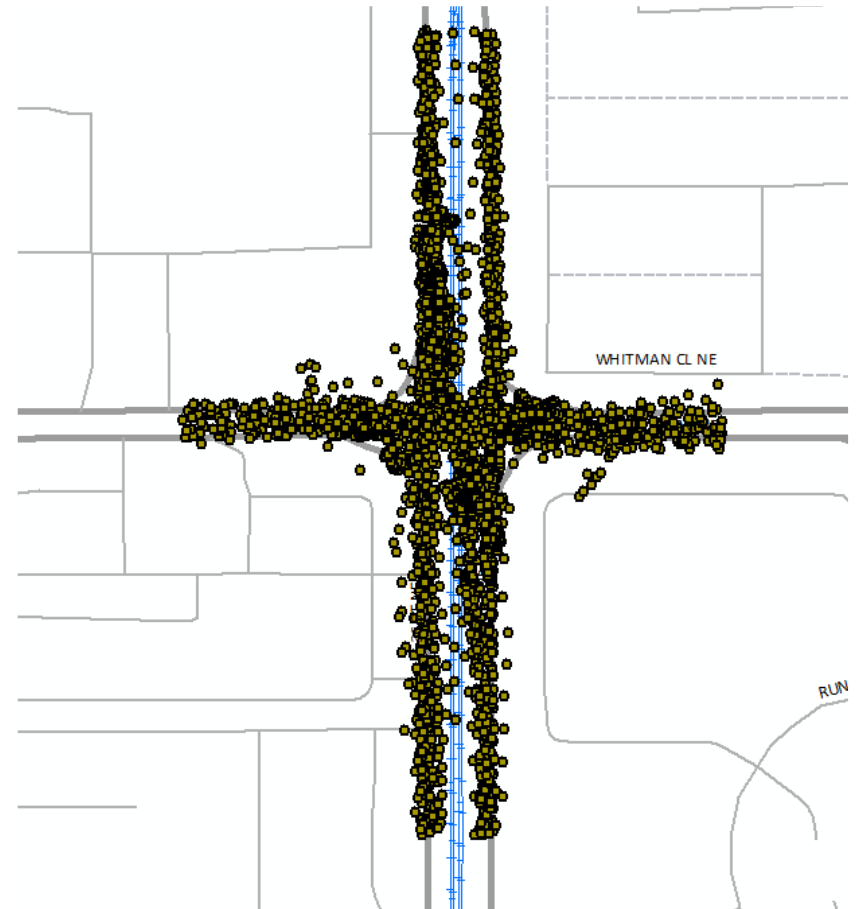


Train Operations

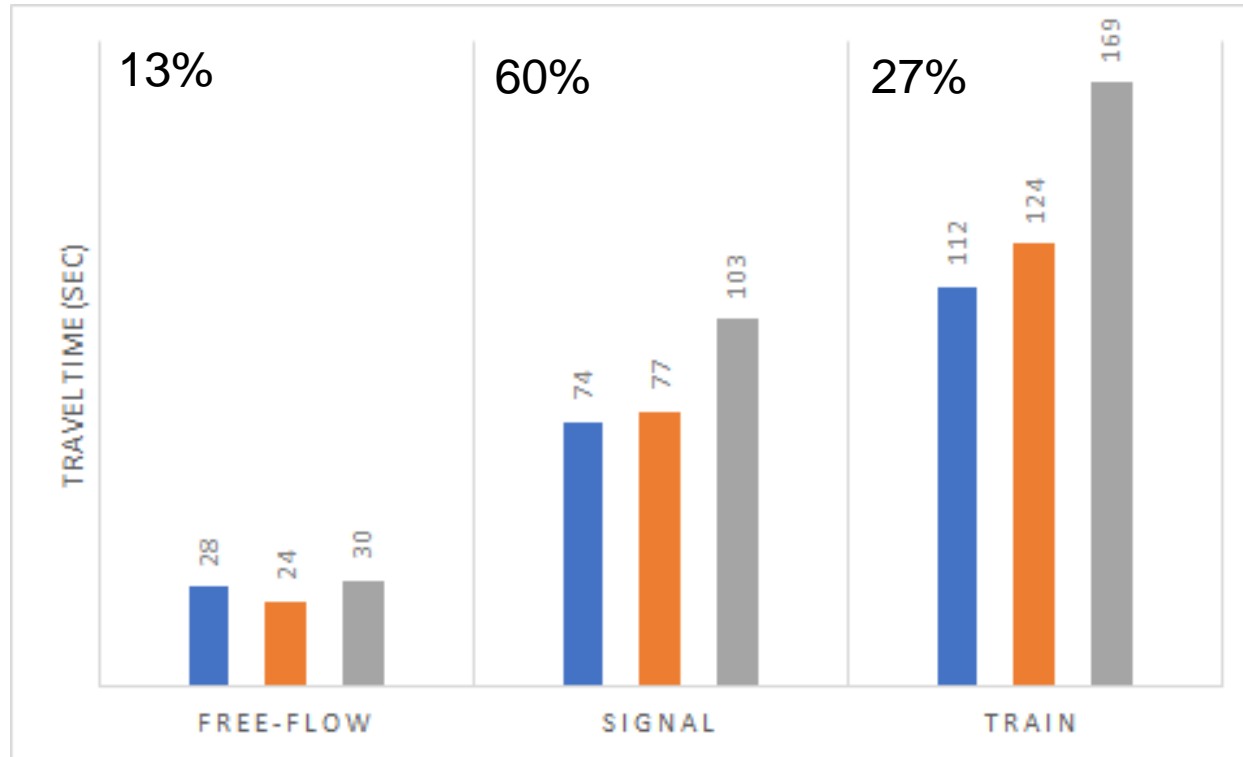
Peak Hour	Time on Single Track	Simultaneous Transit	Time Segment in Use	Track Occupancy
07:00-09:00	28 min	28%	49 min	41%
11:00-13:00	15 min	0%	30 min	25%
16:00-18:00	27 min	55%	39 min	33%

Trains block traffic 30-40% of the peak hours

Pace Car Methods



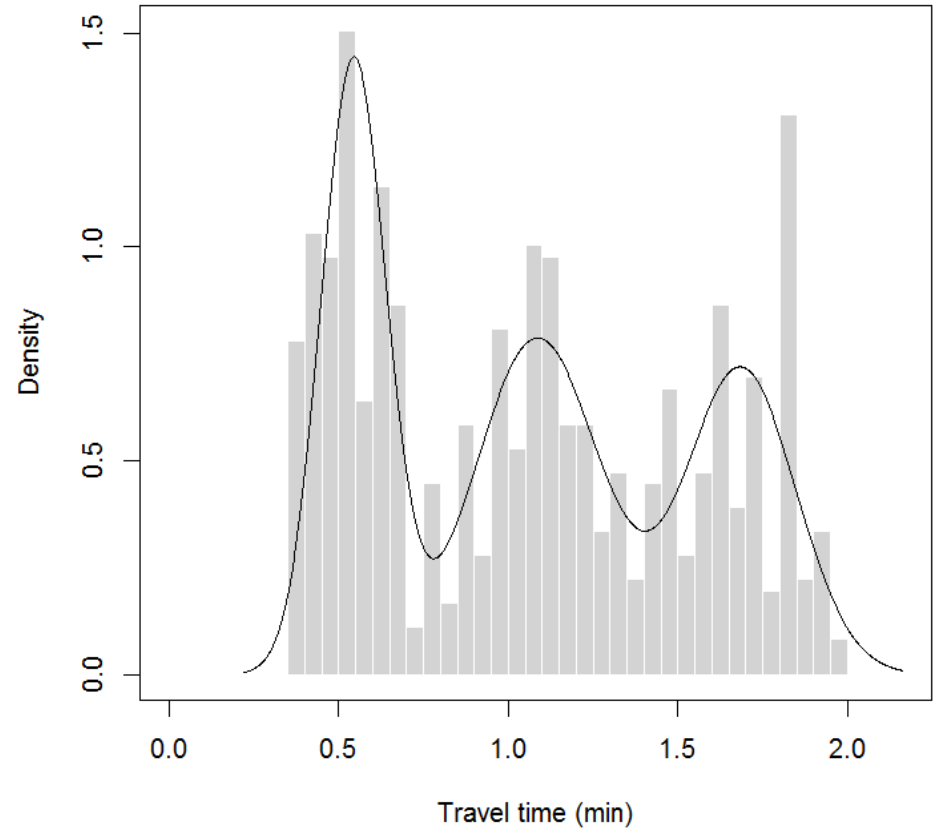
Pace Car Results



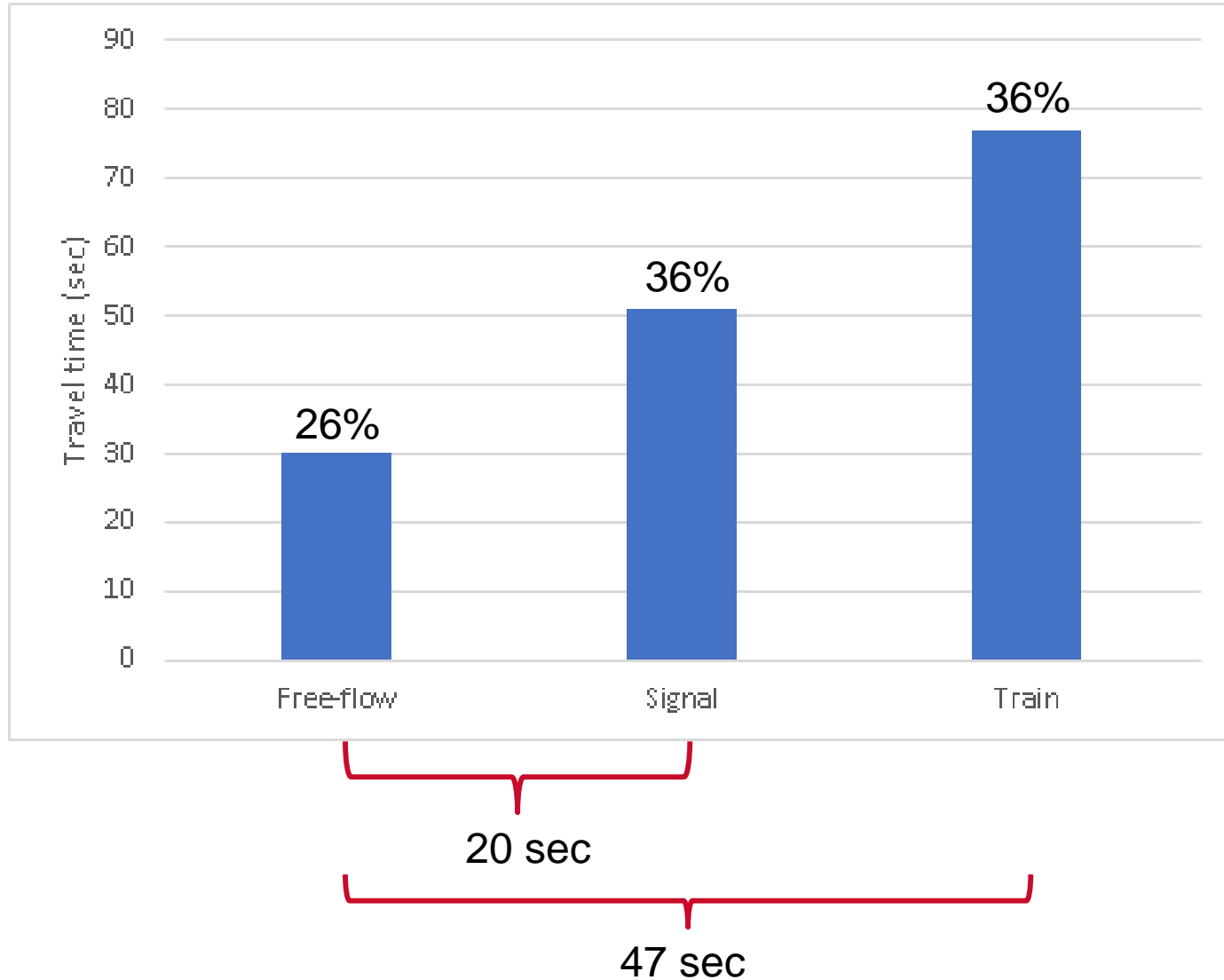
45 sec

84 sec

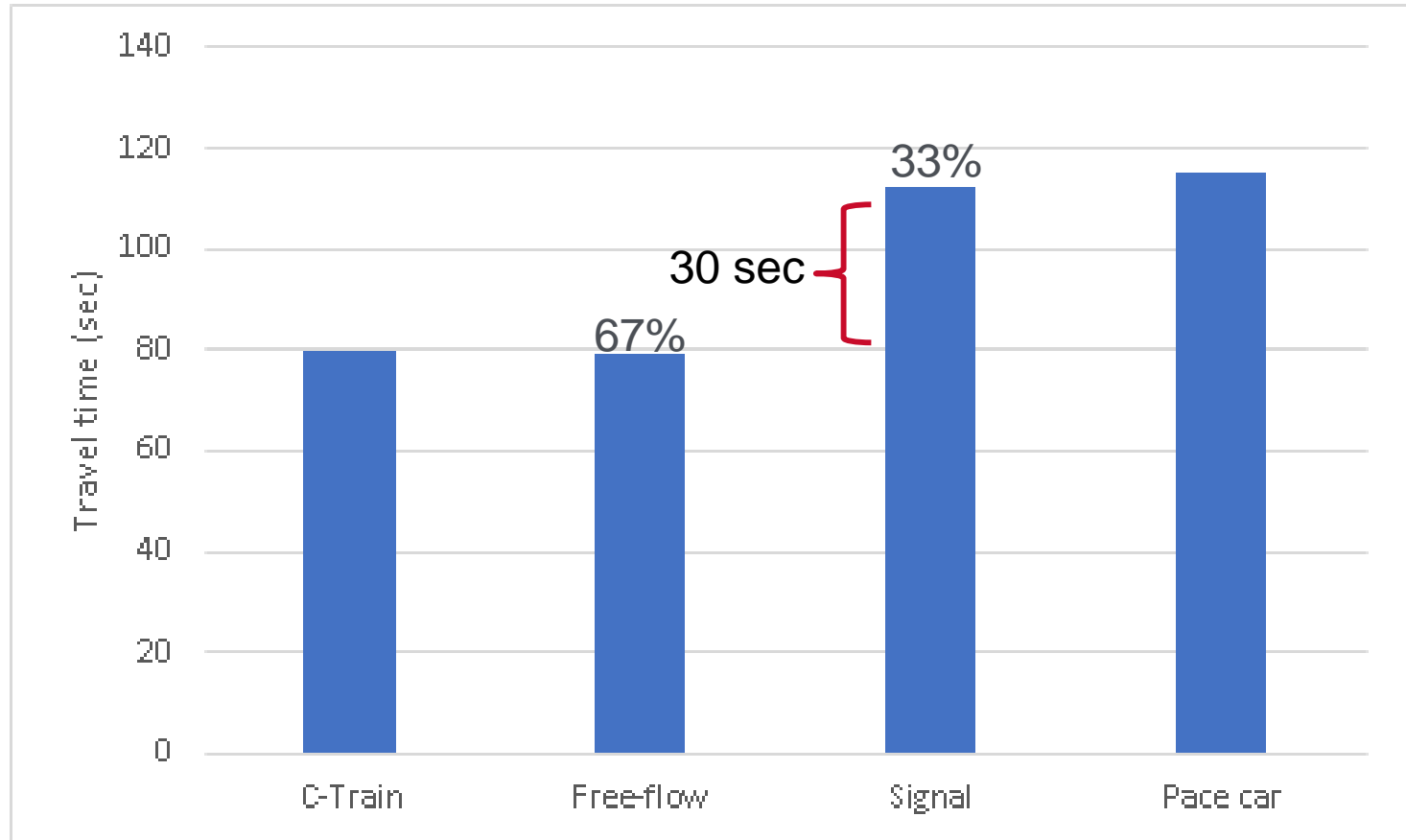
Bluetooth Methods



Bluetooth Results



Travel time between stations



C-Train 10 seconds faster than vehicle travel times

Conclusions

- I. It matters where you orient your light rail line
- II. Delays from the C-Train \approx delays from traffic signal
- III. Relative importance of delays from C-Train depends on encounter frequency

Please direct all questions to the people
who assisted with this project:

City of Calgary data collectors

Austin Norrie

C-Train data processor

Jenn Malzer

Project ideator