

5.8 Results summary

Experiment 1 (Increasing lanes): Increase in Average queue length at EbendorferStr. No clear indication of improvement.

Experiment 2 (Signal optimization): All the roads show a slight decrease in average queue length. The average time spent in node was reduced by 12%. Indication of improvement.

Experiment 3 (Pedestrian over-bridge/subway): Average time spent in node reduced by around 20%. Indication of improvement.

Experiment 4 (Combining half arms): Gerhart-Hauptmann str. queue length reduced by approximately half. The average time was reduced by around 13%. Indication of improvement

5.9 Recommendations (order)

Experiment	Complexity	Cost	Improvement
Experiment 2 (Signal Optimization)	Easy	Low	High
Experiment 3 (Pedestrian bridge/subway)	Medium	Medium	High
Experiment 4 (Combining Half Arms)	High	High	Medium
Experiment 1 (Extending lane at Ebendorfer Str.)	High	High	Bad

Table 24: Recommendation order

Overall, the signal optimization has proved to be our recommended change considering the low complexity and cost involved in implementing it combined with a high rate of improvement.