



Team C-rious

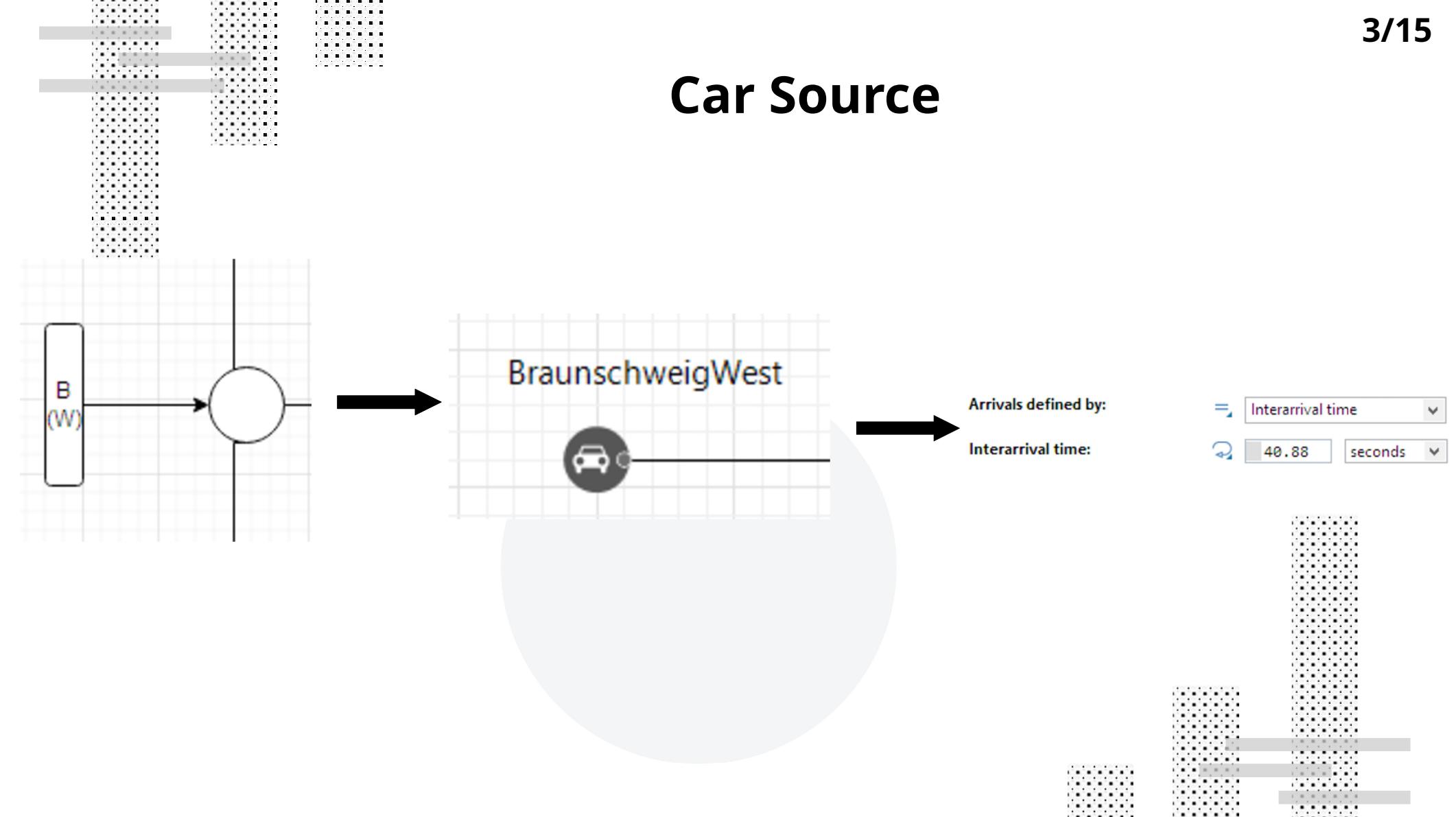
Milestone 5

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31 May 2023

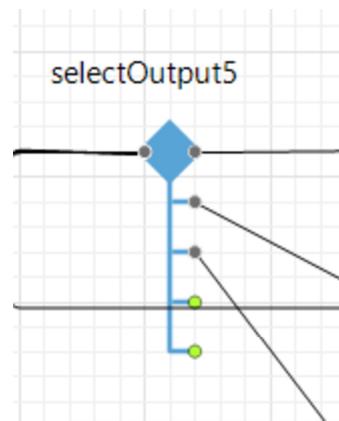
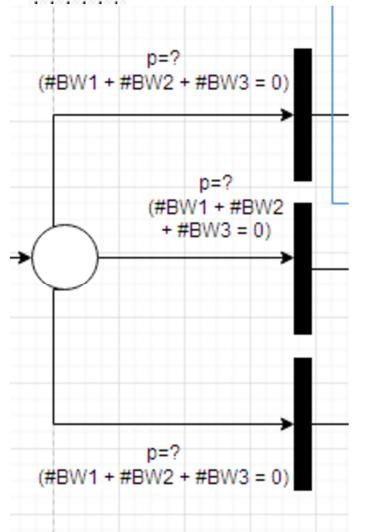
Content

- From Conceptual Model to Simulation
 - Car Source
 - Probabilities
 - Right-of-way Rules and yield signs
- Additional Assumption
- Data measured
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- Lessons learned

Car Source



Probabilities



Use:

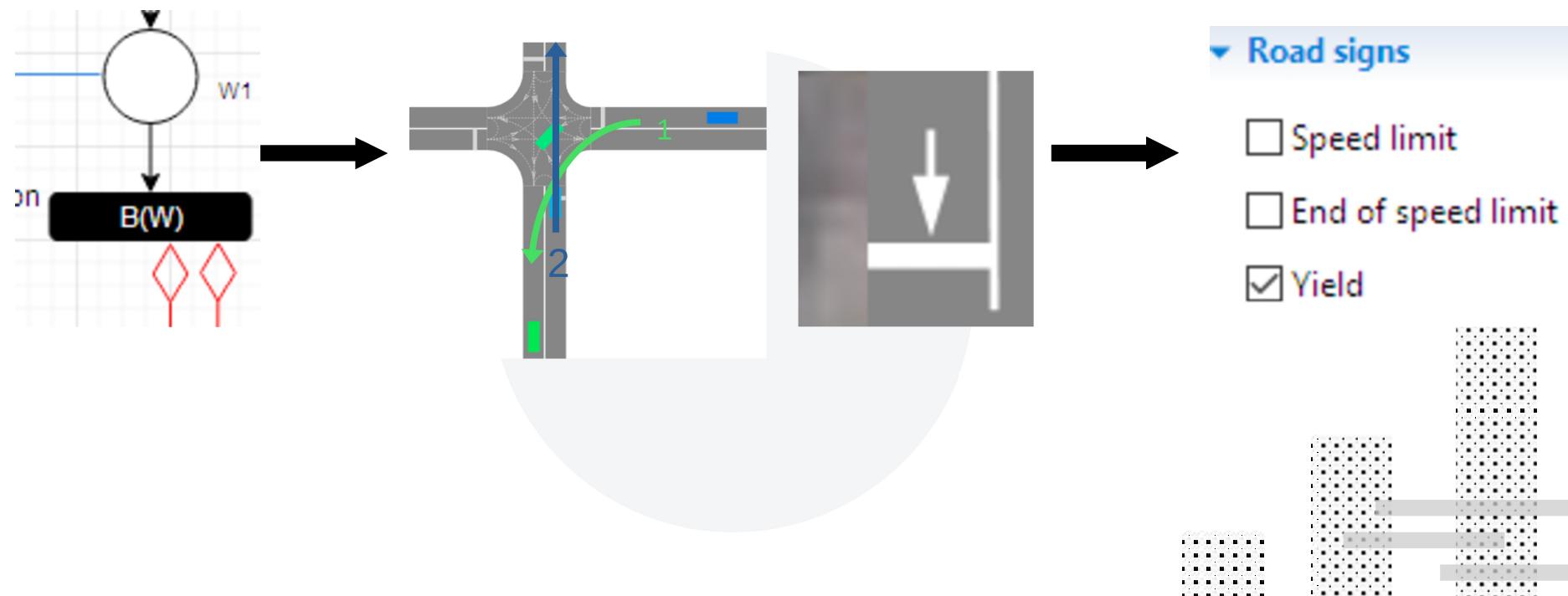
- Probabilities
- Conditions
- Exit number

Probability 1: 0.244

Probability 2: 0.066

Probability 3: 0.69

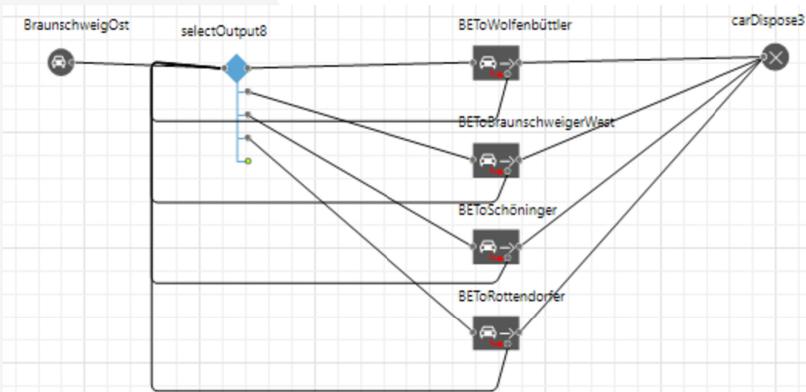
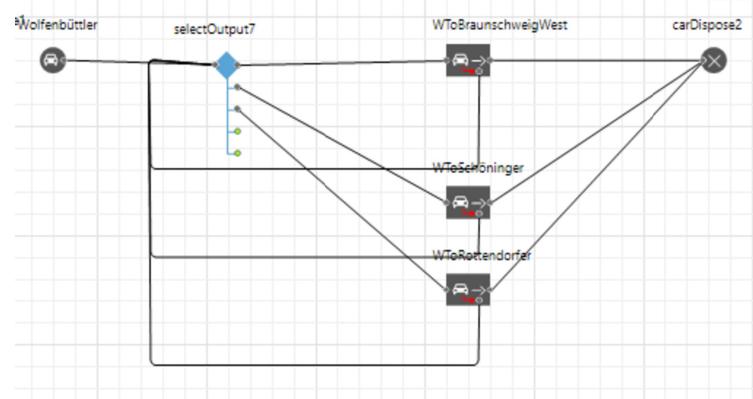
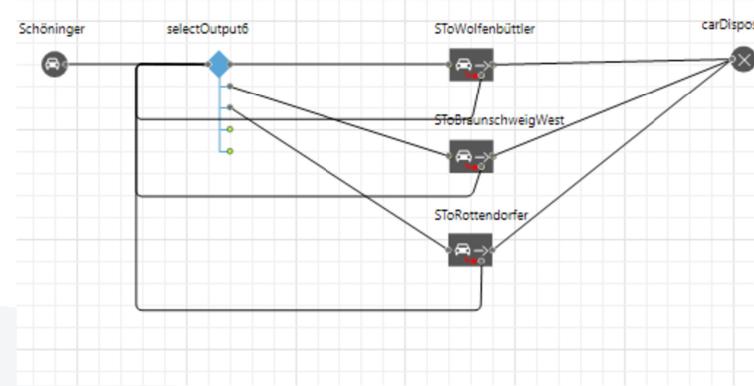
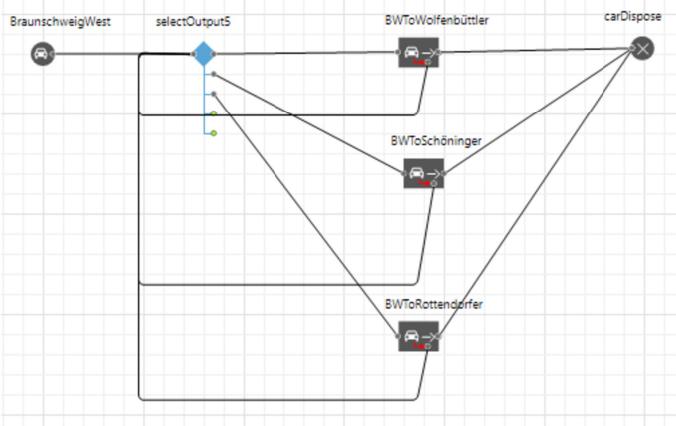
Right-of-way Rules and Yield signs



Complete Intersection Model



Logic



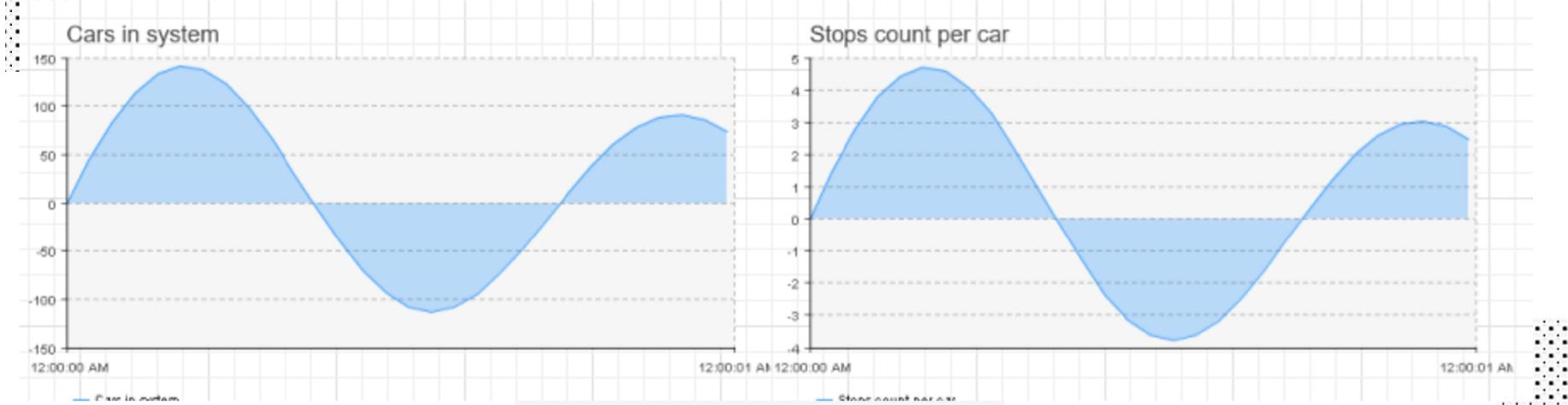
Additional Assumptions

- Each street has a speed limit of 30 km/h, which ends at the intersection, only the braunschweigerstr. W has a small section with 50 km/h in front of the intersection
 - Changing the speed limit for the whole intersection to 30 km/h

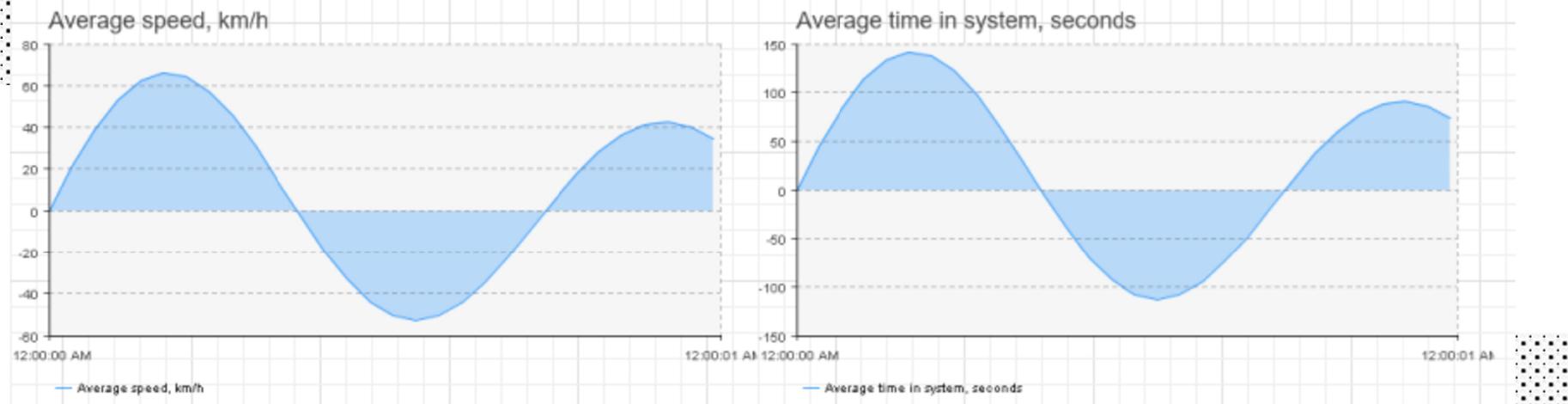
Initial speed:  kilometers per hour 

Preferred speed:  kilometers per hour 

Data measured

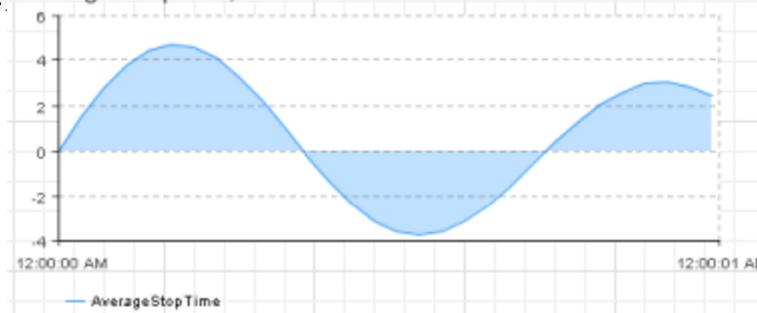


Data measured

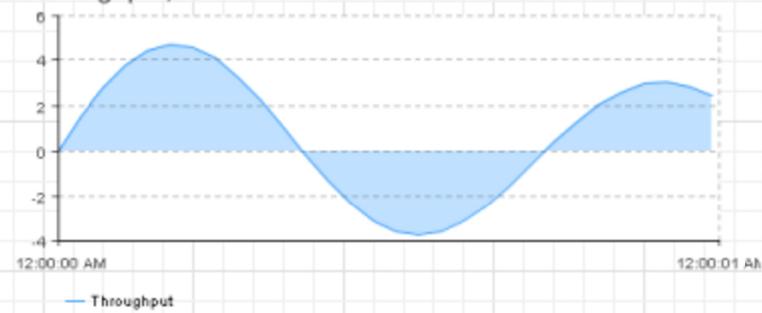


Data measured

Average Stoptime, seconds

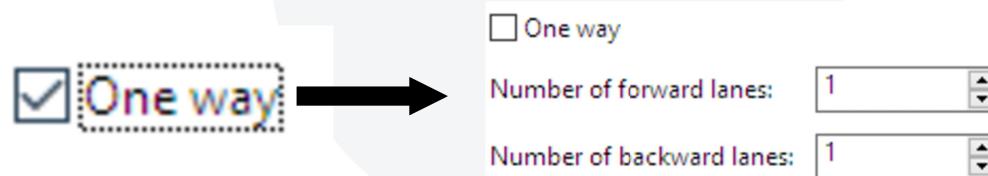


Throughput, Cars/minute

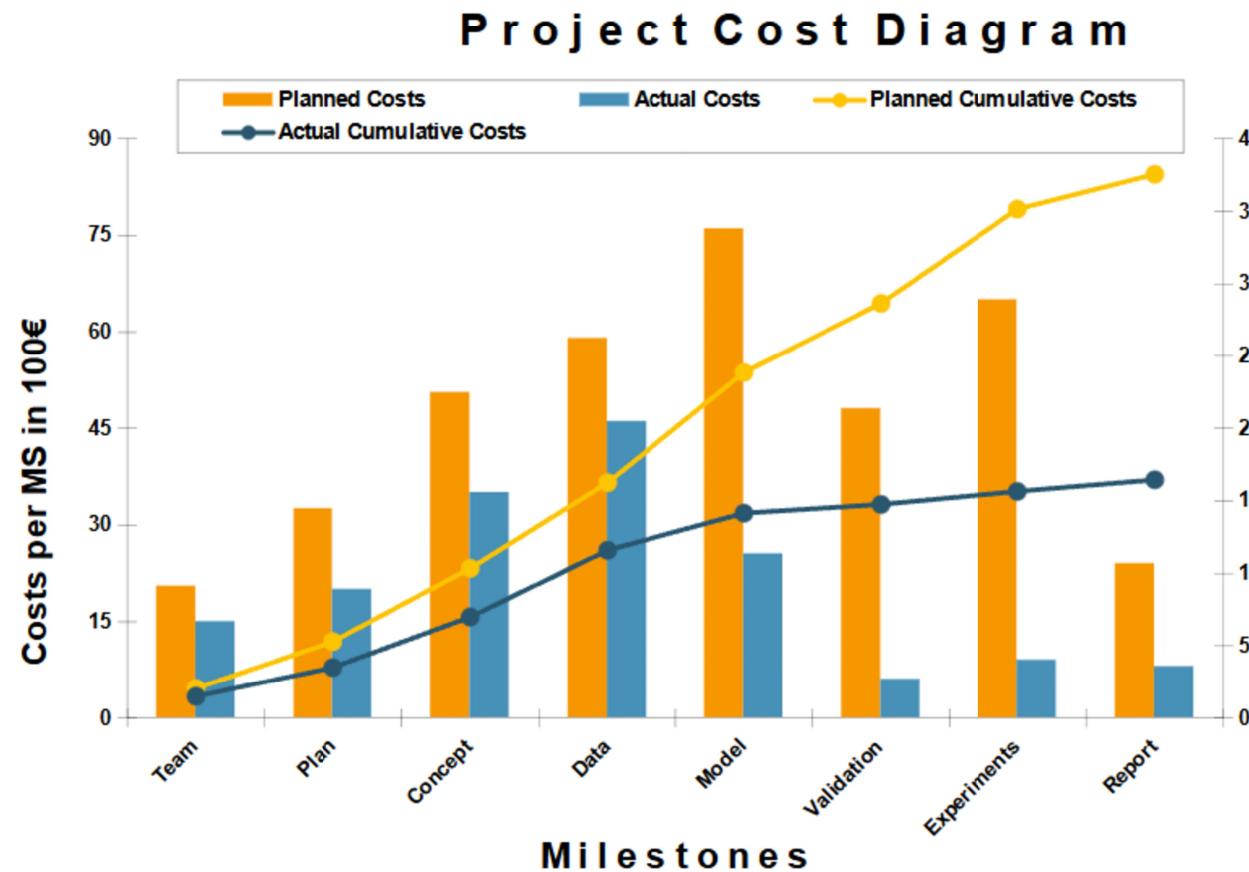


Changes for Experiment

- Replace the intersection with a roundabout by modelling a new simulation and use Logic from original
- Changing Rottendorferstr./Braunschweiger str. E to two-way street by unselecting one-way

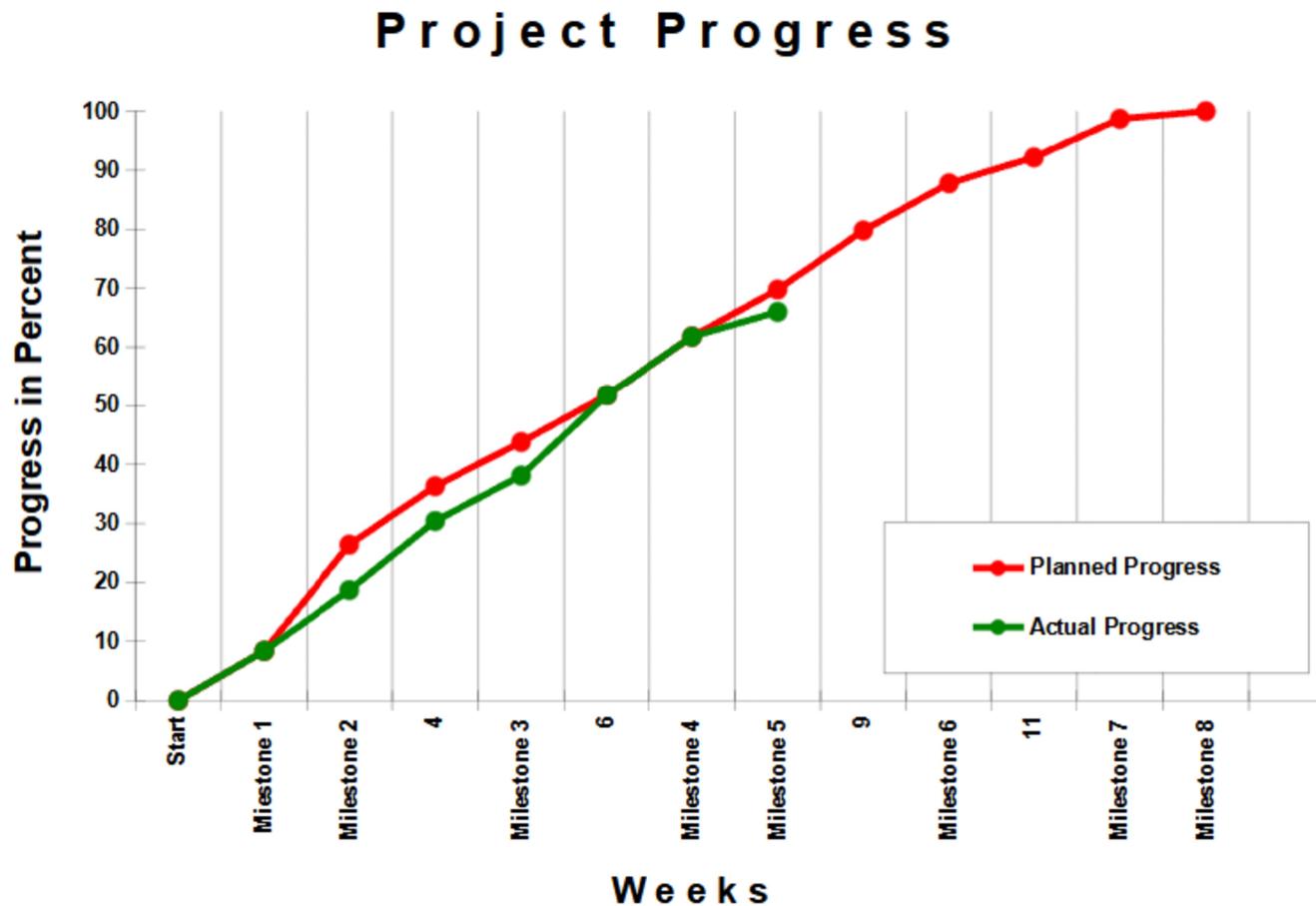


Cost Analysis



Cumulative Costs in 100€

Project Progress



Lessons Learned

- Getting to understand Anylogic is important and takes time
- Debugging may take longer than expected