



# Simulation Project 2026 - Milestone I

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**Team A**



OTTO VON GUERICKE  
UNIVERSITÄT  
MAGDEBURG

Zusammen die Welt  
*neu denken*

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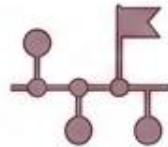
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# Team Members

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Team Leader - Aakifah Hassan

Conceptual Model - Shashvat Sheth

Input Data Analyst - Basil Joseph

Chief Software Architect - Harsh Chaudhary

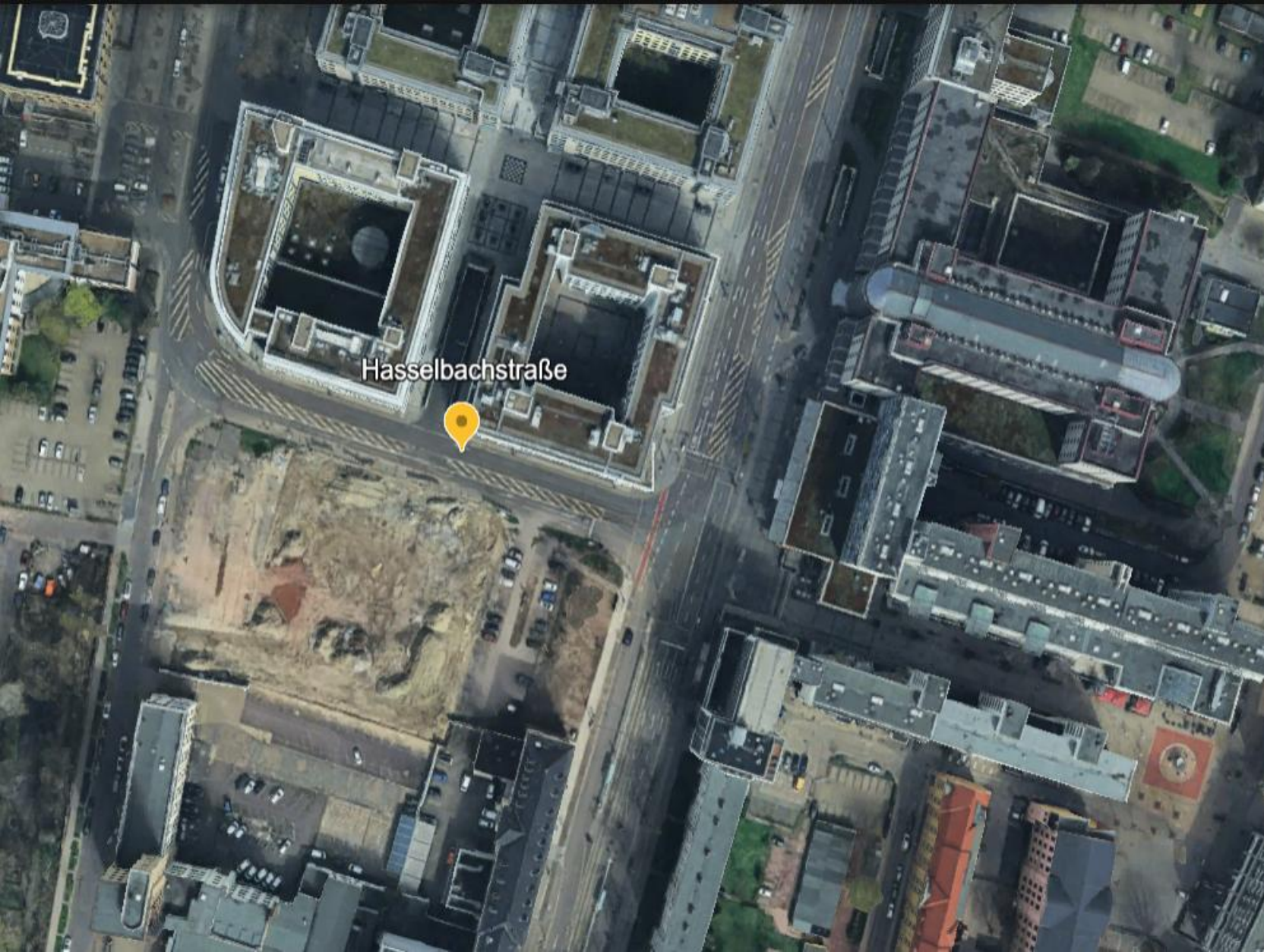
Experiment Designer - Ambaprasad Pathak

Validation and Quality Control - Asif Majeed

# Problem Statement

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What is the effect of merging the two turning lanes on the south side of the street into one?



## Traffic Conflict Zone

- Traffic flow bottlenecking during peak hours.
- Vulnerable user exposure time at the south-east crossing.
- Existing infrastructure "dead zones" suitable for greening or sidewalk expansion.

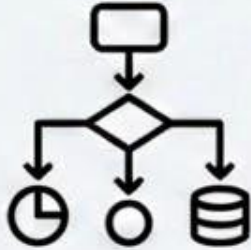




# Lessons Learned



Gained a clear understanding of the project scope and defined core objectives.



Developed the basic conceptual model and identified required data



Determined initial optimization experiments for the simulation



Improved team coordination and conducted efficient discussions within limited time.



Recognized the importance of clear communication and early role definition.



# Estimate of the extent to which you have completed each of the future milestones



Decided on the tool/website for developing the conceptual model (Petri nets)

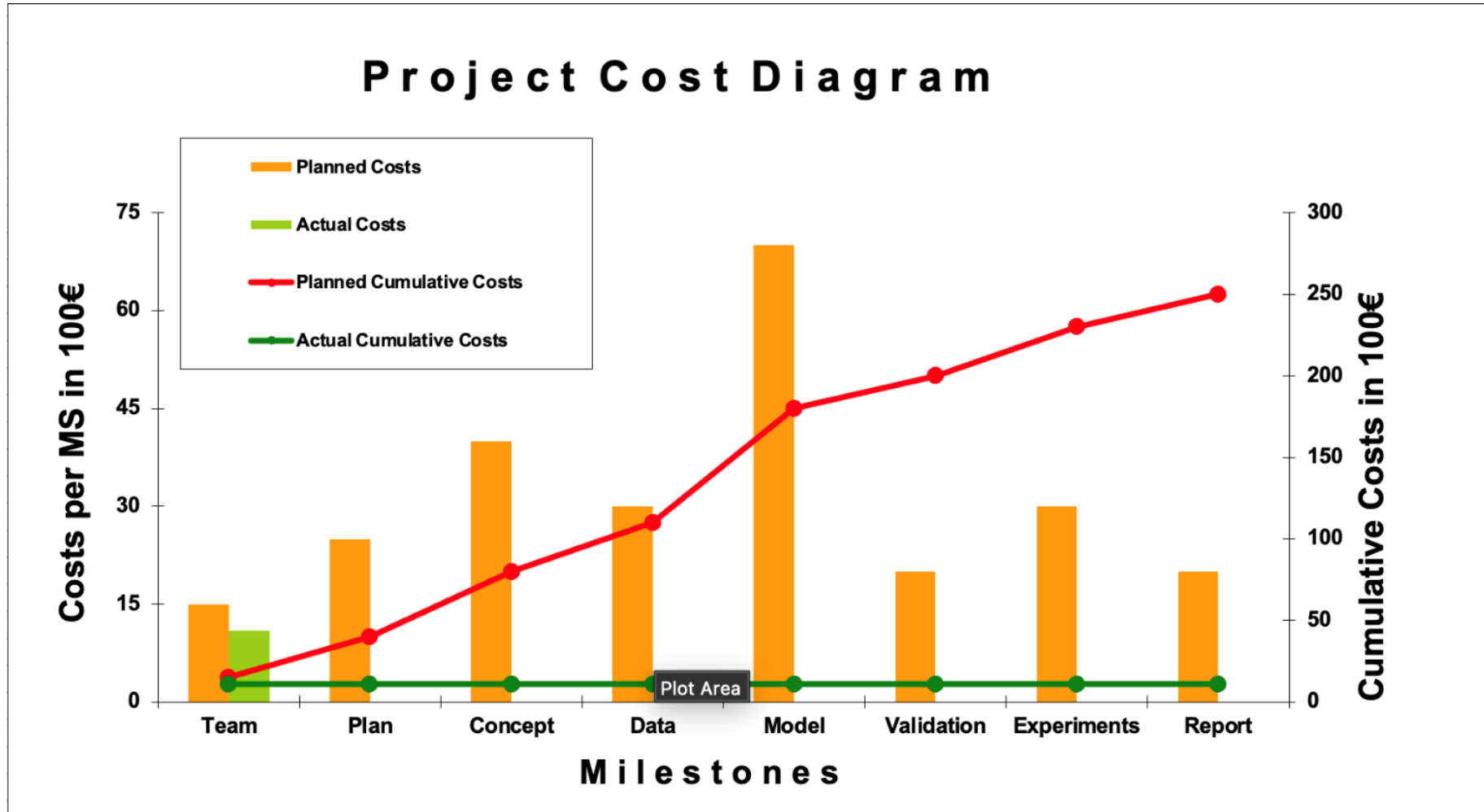


Initial progress made in data collection (road layout, signs, traffic type, signals, and traffic volume)

## Cost estimate summary

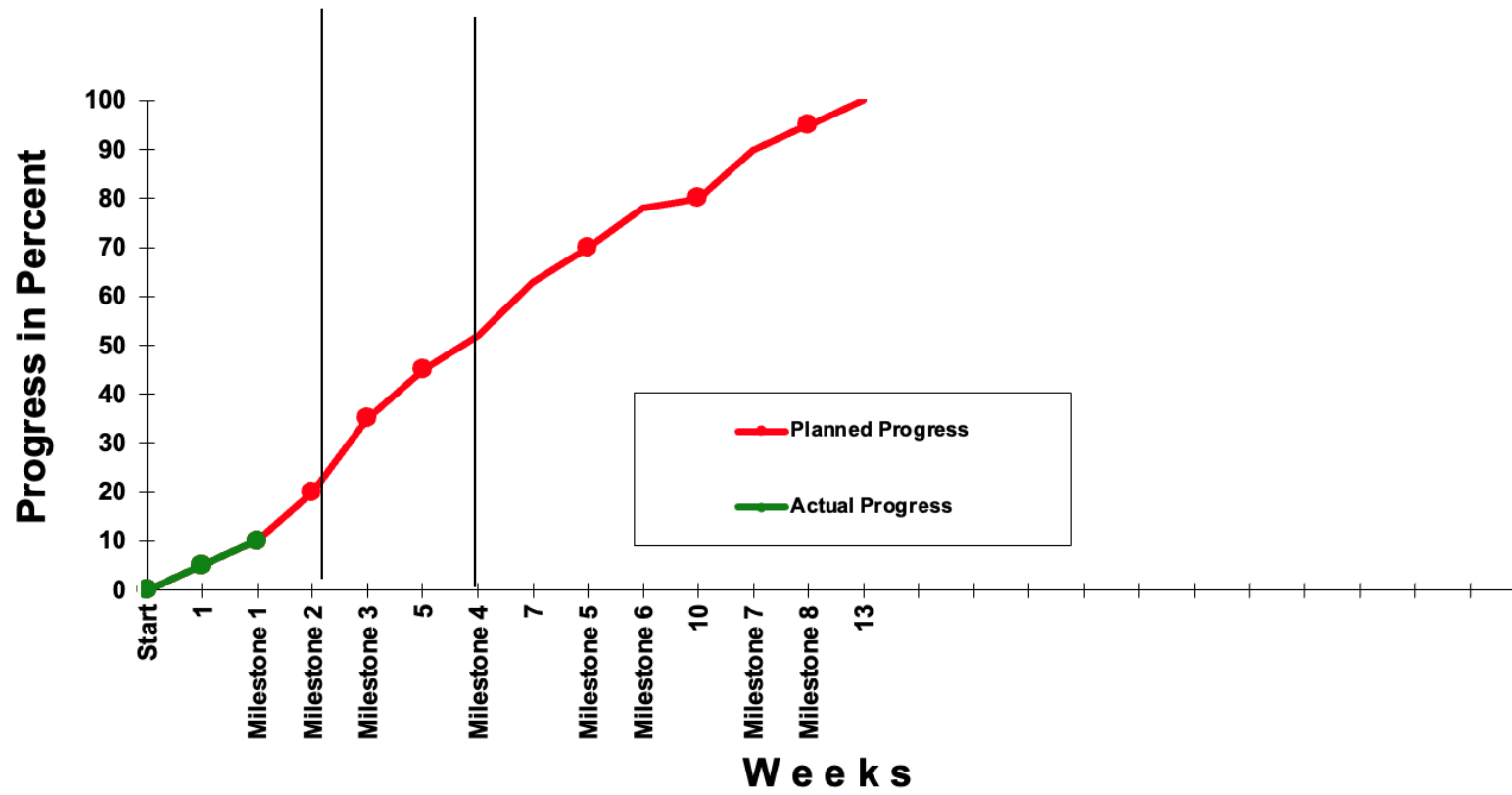
Our team has invested a total of 11 hours into the project to date. This includes a one-hour on-site observation at Hasselbachstraße with all six team members (6 hours), a 30-minute follow-up team meeting on Sunday (3 hours), and two hours spent by Aakifah preparing the presentation slides.

# Cost Estimate



# Progress estimate

## Project Progress





**Vielen Dank**  
*für Ihre*  
*Aufmerksamkeit*