

# Project Timeline

## Exposure-Normalized Bicycle Crash Risk Along Berlin Routes

November 2025 – January 2026

### Phase 1: Project Setup    Weeks 1–2 (10–23 November)

- Define project scope, research questions, and success criteria.
- Establish data standards and coordinate reference systems.
- Complete initial data quality assessment and prepare datasets for analysis.

### Phase 2: Network Construction    Weeks 3–4 (24 November – 7 December)

- Build street and bicycle network graph for Berlin.
- Develop crash-to-segment mapping methodology.
- Integrate traffic exposure data with network segments.

### Phase 3: Risk Metric Development    Weeks 5–6 (8–21 December)

- Develop exposure-normalized risk metrics at the segment level.
- Explore statistical approaches for handling data variability.
- Design route-level risk aggregation methodology.

### Phase 4: Route Analysis System    Week 7 (22–28 December)

- Implement route scoring and alternative recommendation prototype.
- Define convenience constraints (distance and travel time).
- Create visualization tools for network risk and route comparisons.

### Holiday Break    29 December – 4 January

*Well-deserved rest and reflection*

### Phase 5: Validation and Refinement    Weeks 8–9 (5–18 January)

- Conduct validation analyses and assess model robustness.
- Perform sensitivity analyses for key assumptions.
- Evaluate trade-offs between risk reduction and route convenience.

### Phase 6: Documentation    Weeks 10–11 (19–30 January)

- Write the paper and produce final figures.
- Ensure reproducibility and finalize code documentation.
- Submit the project by **Friday, 30 January**.