



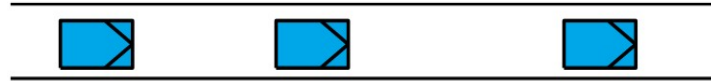
# *Macroscopic modelling of active modes*



# Scales of traffic description

Microscopic: individual level

▯

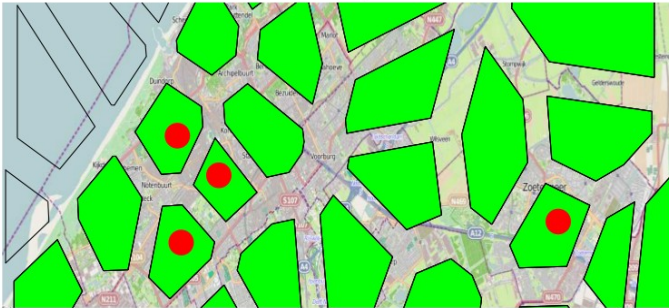


Macroscopic: road level

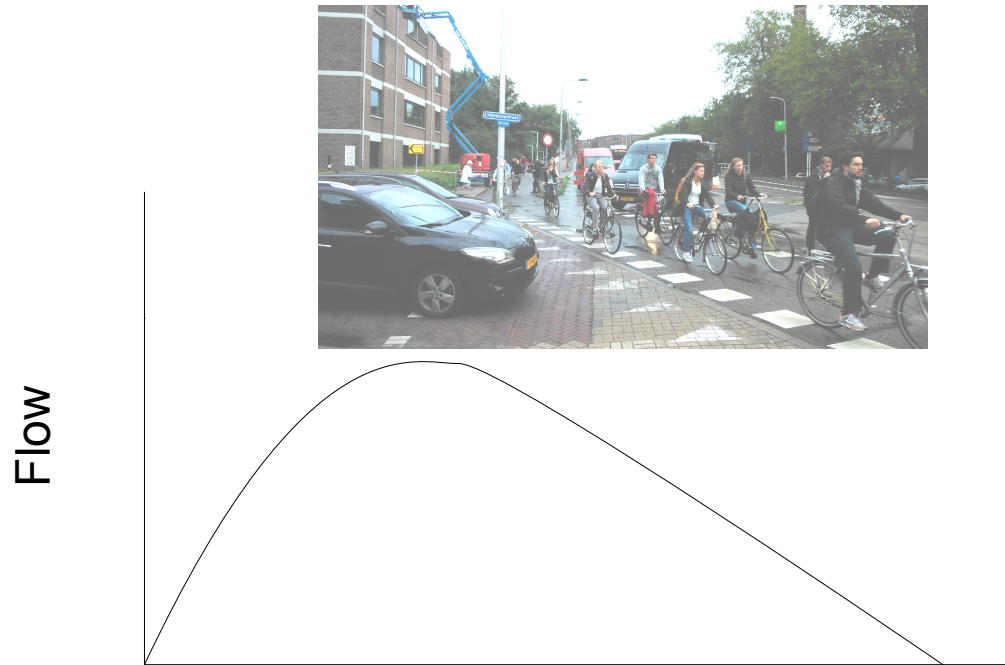
▯



▯ Higher level: network level



# *Relationship between variables*



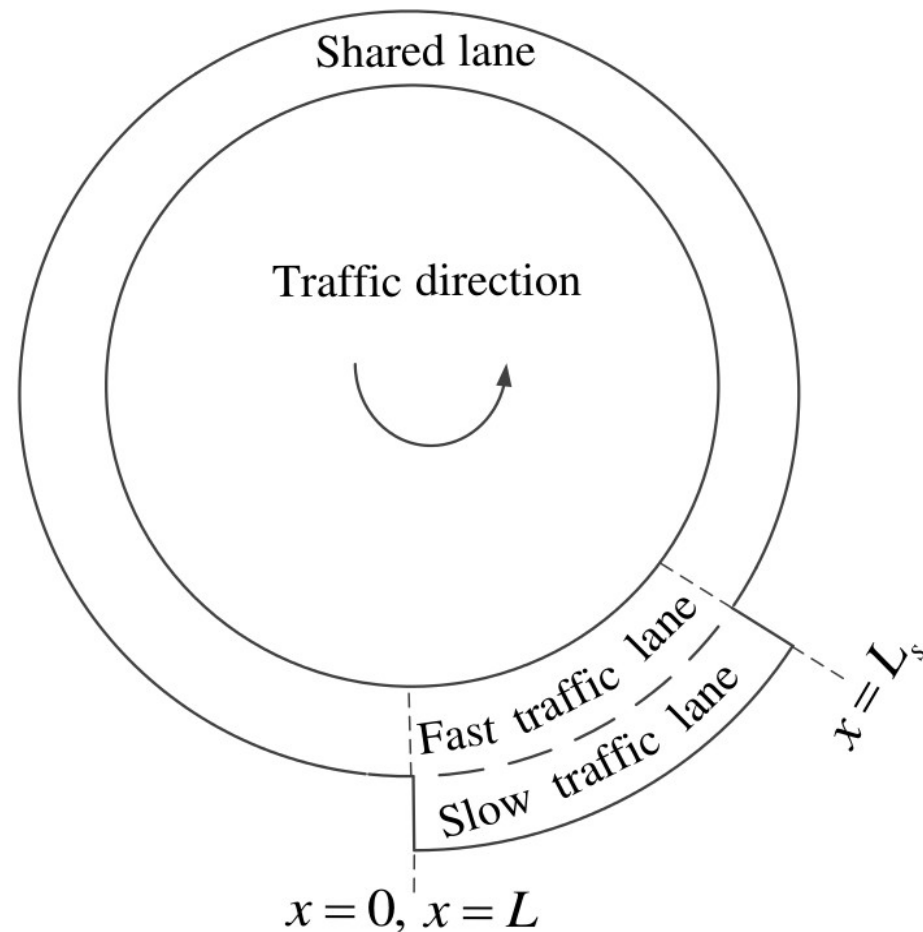
Density





# *Impact of cyclists and bike lanes*

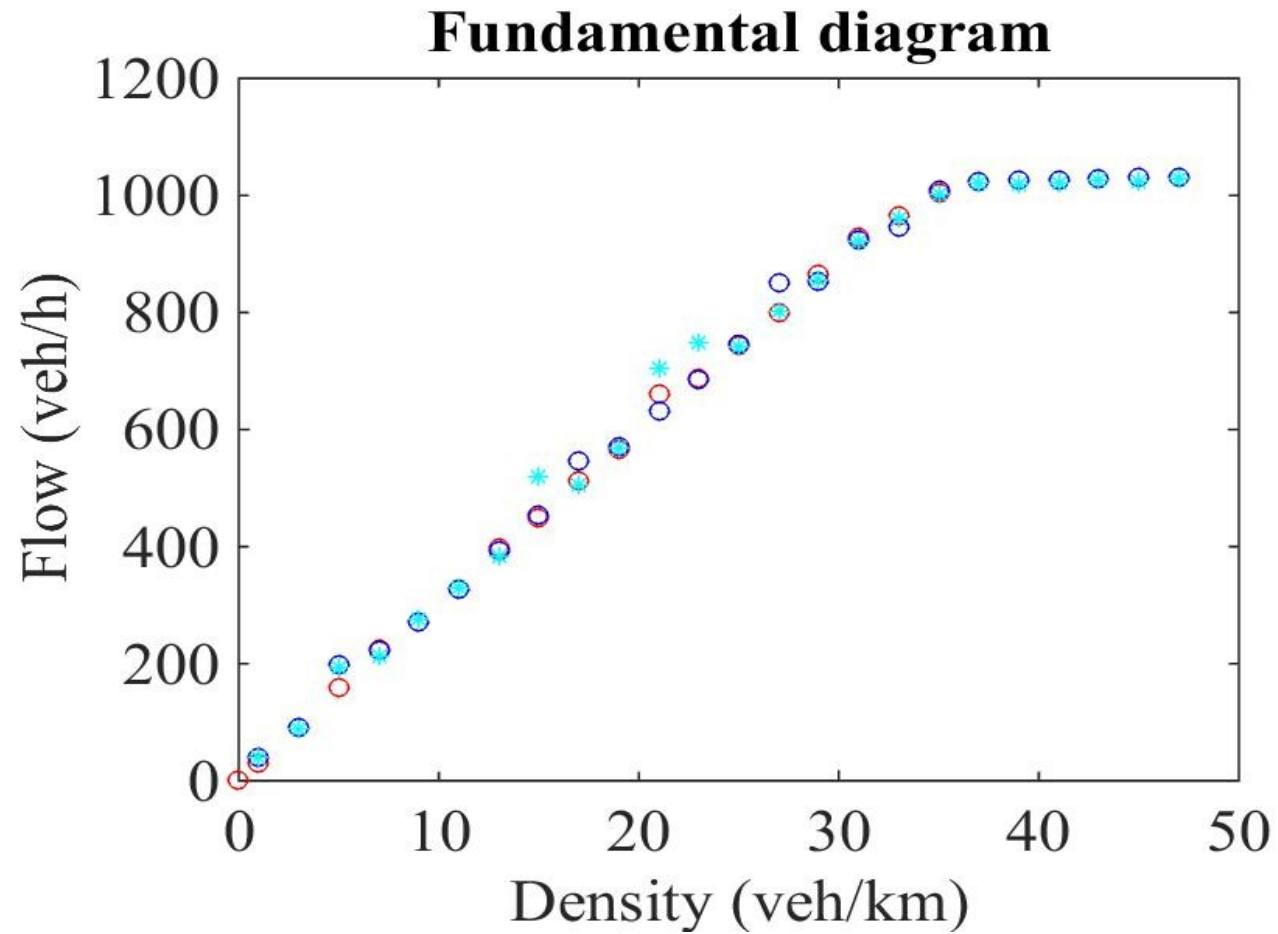
- Bikes are only partially in the way of cyclists
  - First step: simplify
  - One road, partially bike lane
- Simulations and analytics



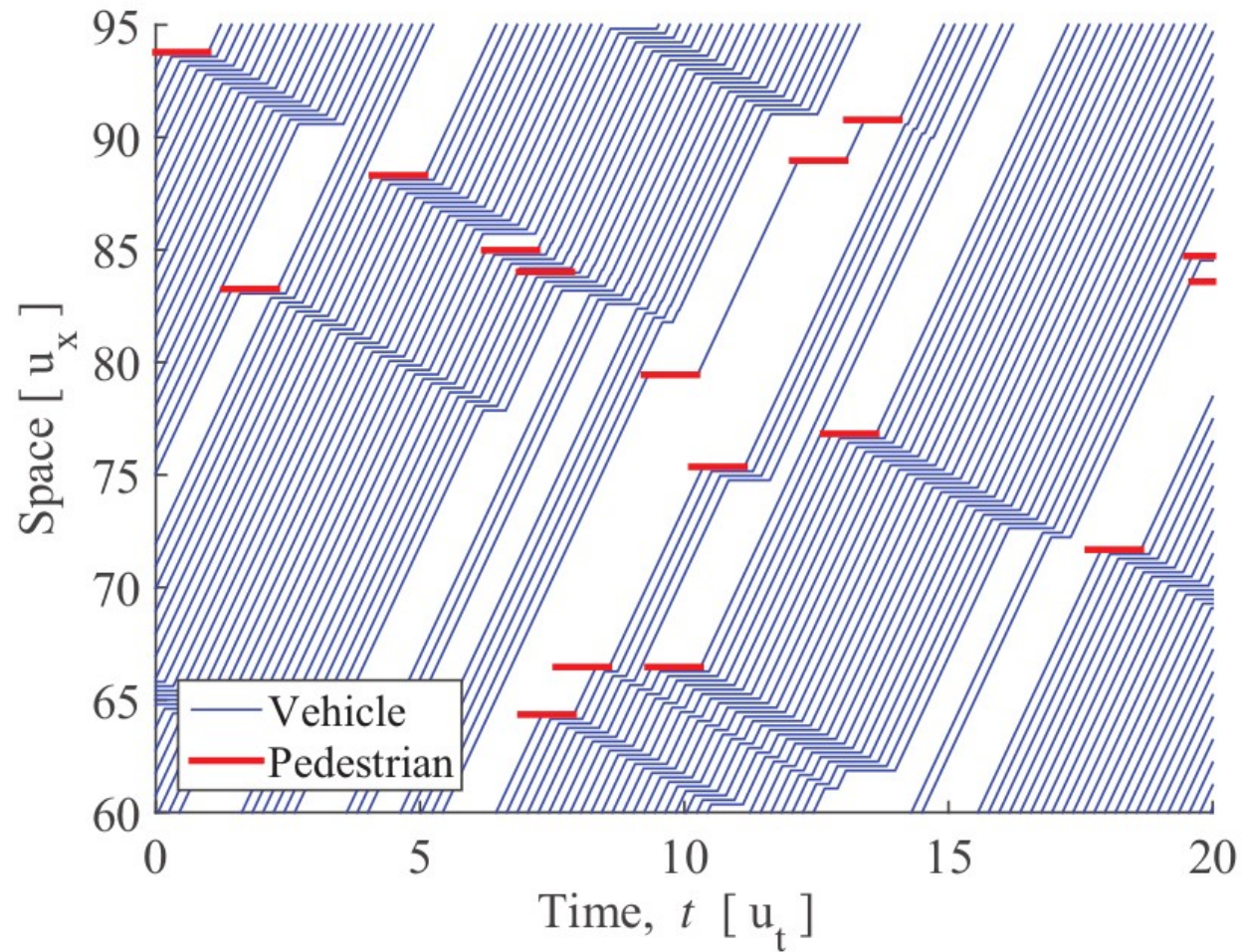
# ***Simulation***



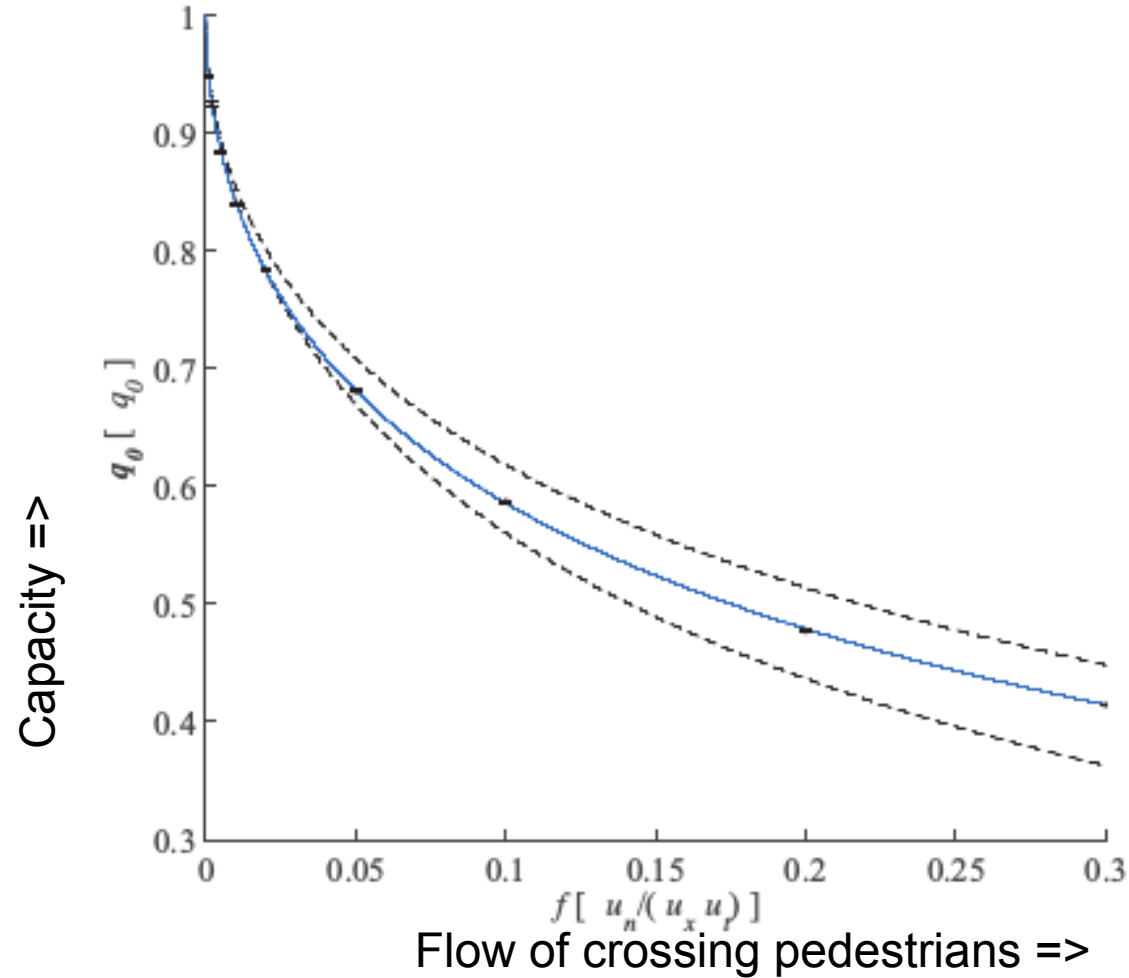
# Fundamental diagram



# *How about pedestrians?*



# Capacity under pedestrian crossing





# Next steps



Describe relevant phenomena:

- Road capacity (how many cyclists/pedestrians/cars can go over a road section per unit of time)
- How to model shared space?  
Two-dimensional, multi-class
- Which phenomena are essential to reproduce?
- Speed differences between the modes  
How does this differ for various speeds

