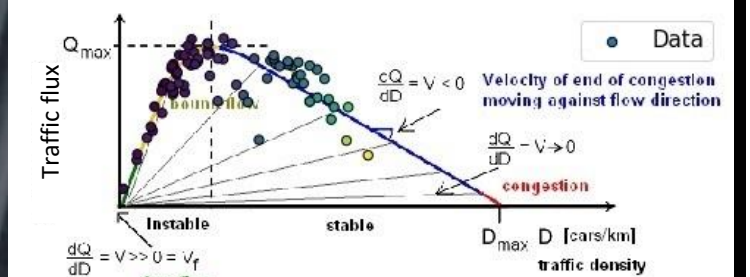
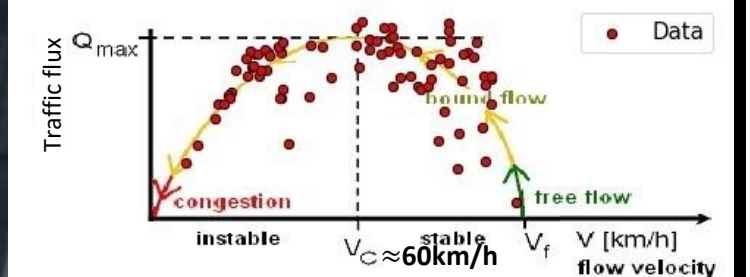
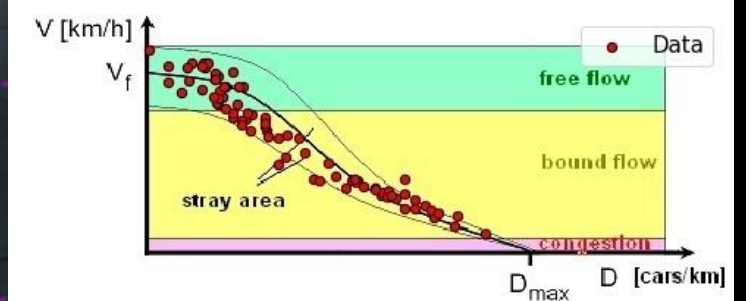


The Fundamental Traffic Diagram

Data vs. Theory



Source: Hendrik Ammer, Faculty of Transport and Traffic Sciences, Dresden, Germany

Traffic Analysis in Original Video Data of Ayalon Road

81 8-minute-long videos of Ayalon Road were recorded in May-July 2019 from an apartment window using a personal smartphone camera.

This was followed by processing (see challenges below) and analysis (see examples above and on the left).

Some of the challenges:

- Collecting sufficient **data** in various days & hours
- **Detection** of small, crowded vehicles in various illumination conditions
- **Tracking** over frames in spite of missing detections and low frame-rate
- Non-linear conversion from **pixels to meters**

Ido Greenberg
2019