



ADVANCED TRAFFIC SYSTEMS

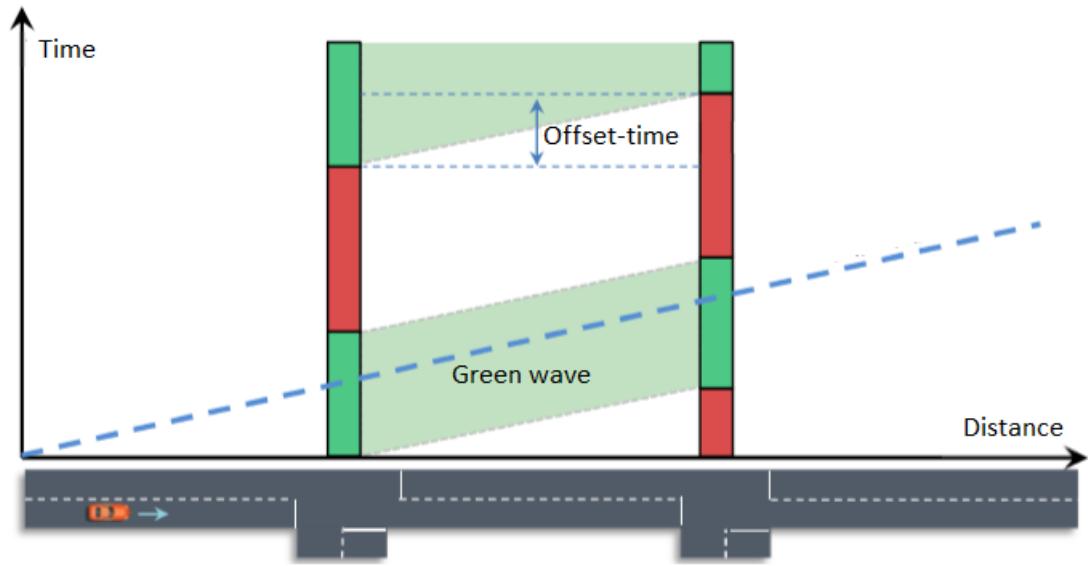
The green wave of the future



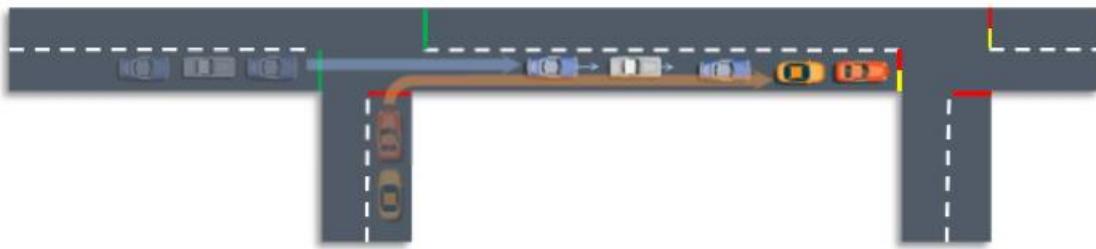


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ISSUES WITH GREEN WAVES

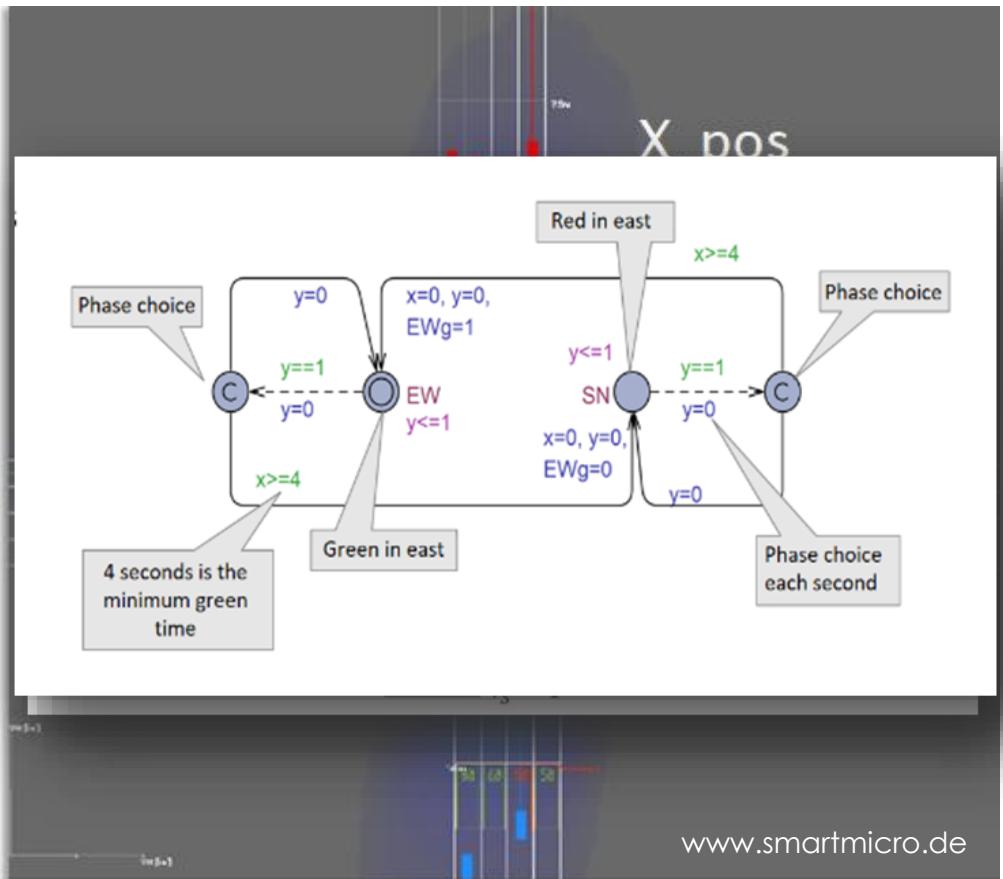


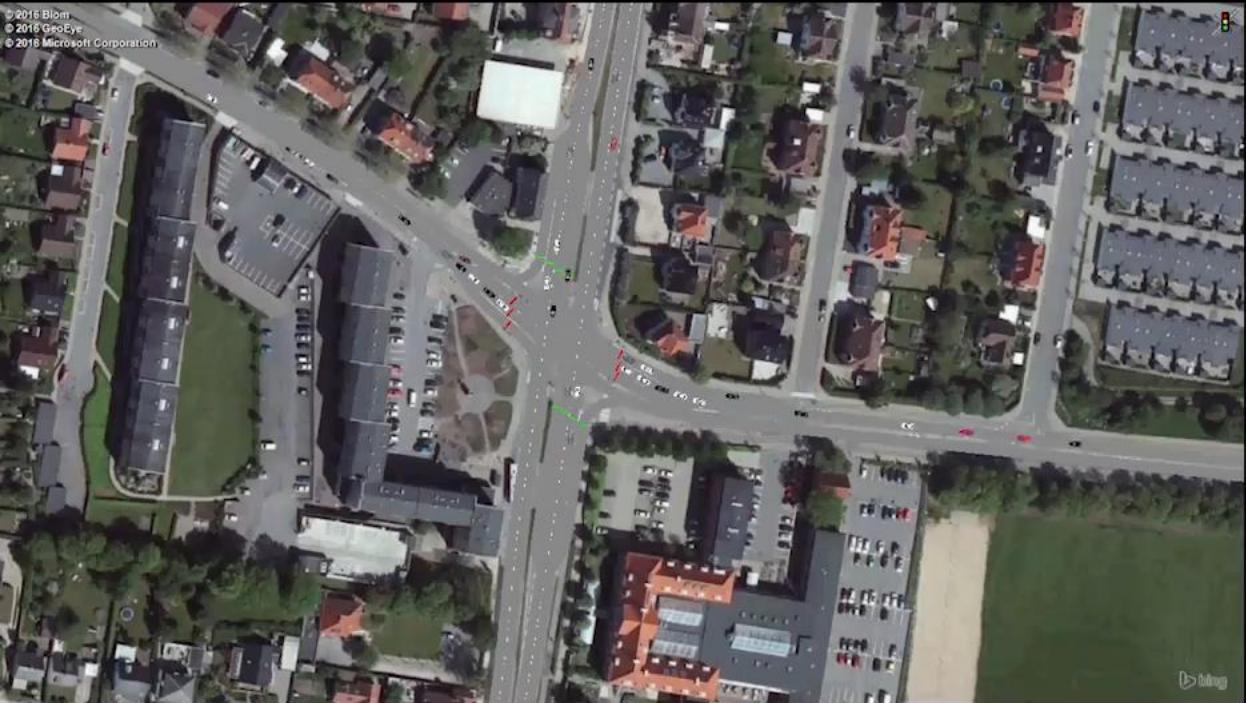
1. Vehicles drive too slow or too fast
2. Traffic patterns change over time
3. Cars might already be at the stop line



The principle behind a green wave

DYNAMIC GREEN WAVES

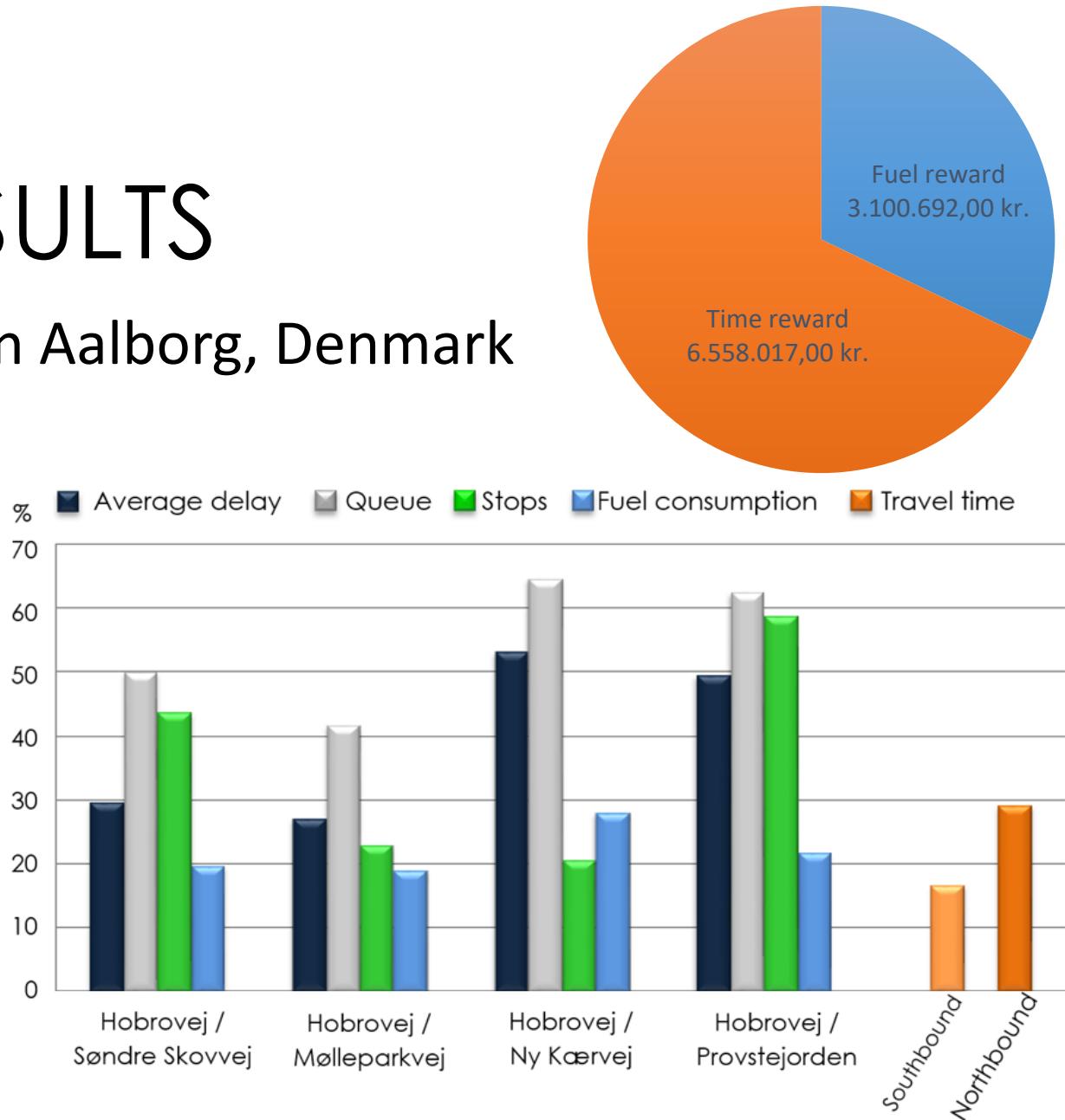




GREEN WAVE RESULTS

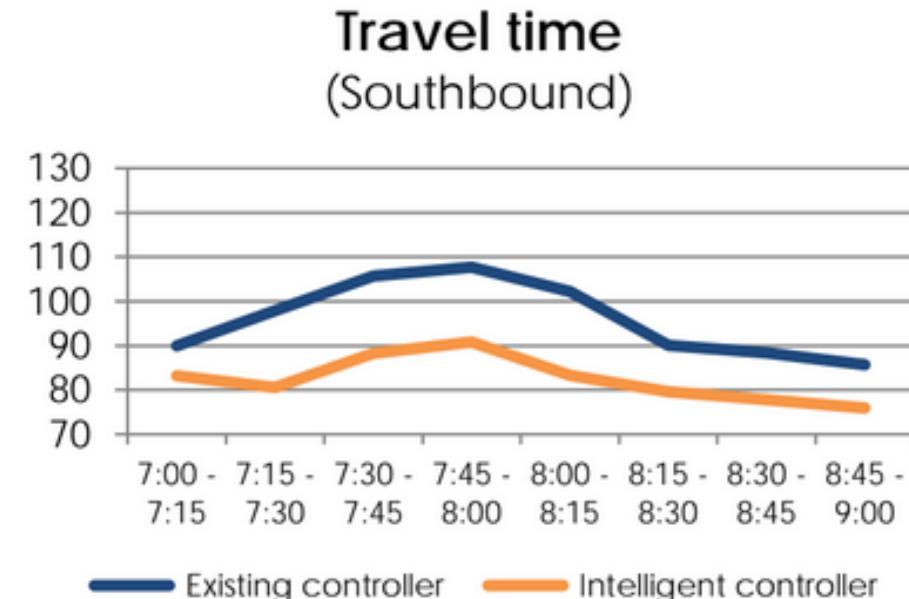
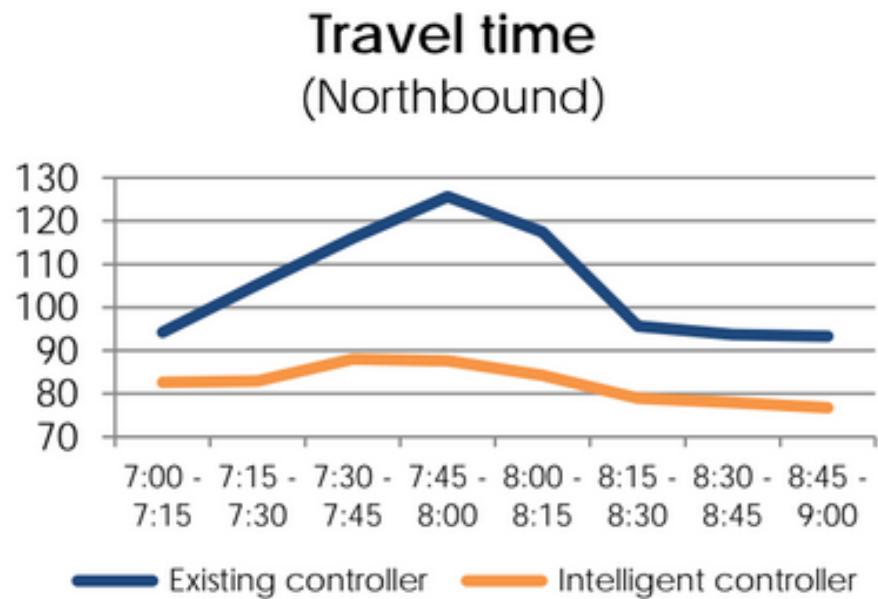
Simulation study on Hobrovej in Aalborg, Denmark

- Existing green wave
- ATS controls the intersections independently, but automatically creates dynamic green waves
- Reductions of all measures
- Socio-economic savings around 10 million kr.



GREEN WAVE RESULTS

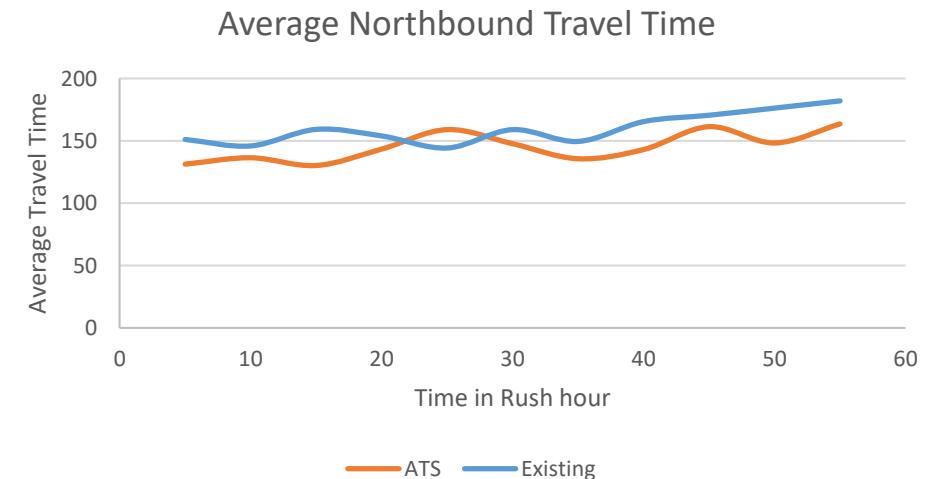
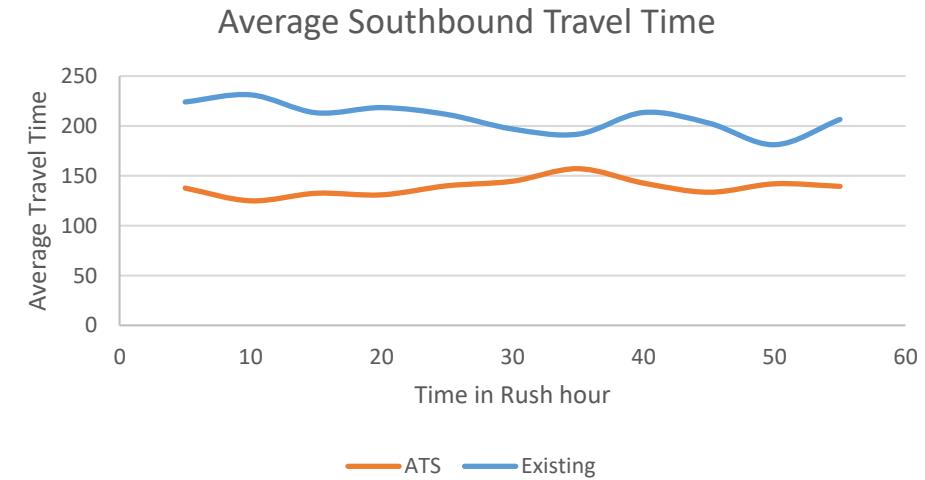
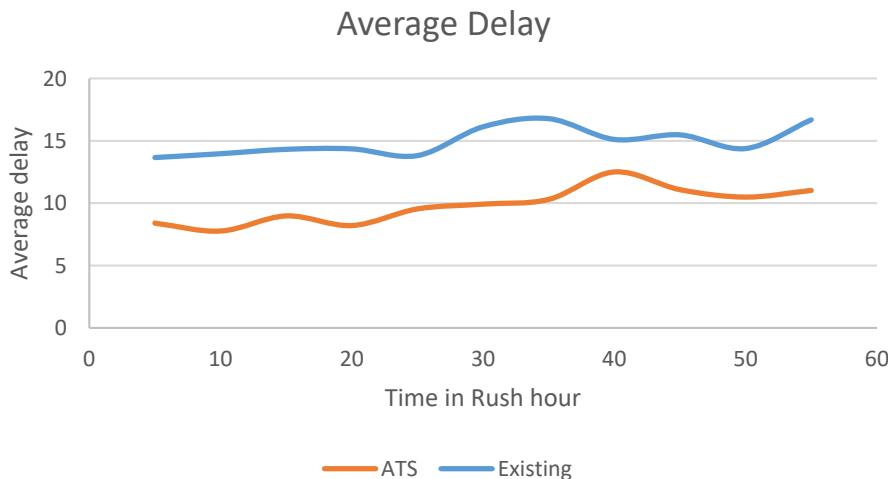
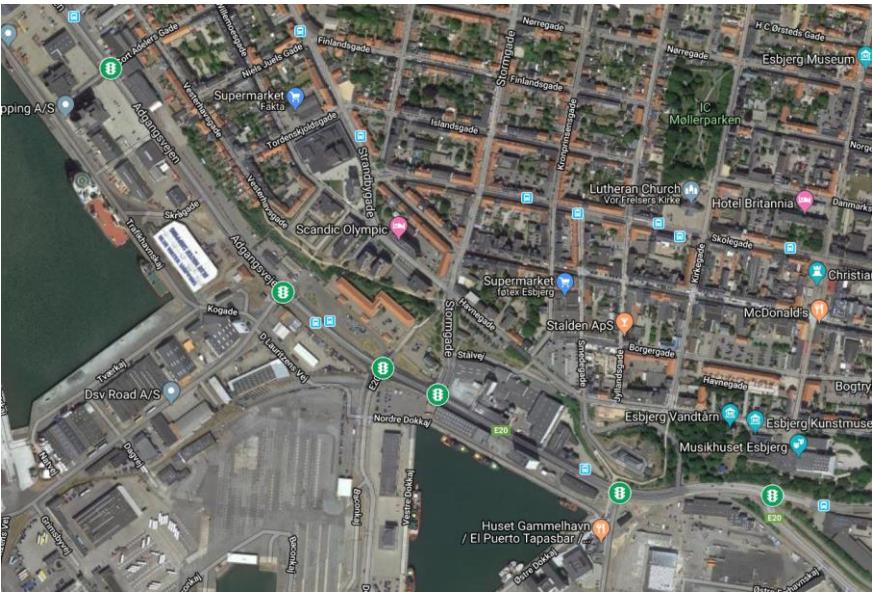
Simulation study on Hobrovej in Aalborg, Denmark



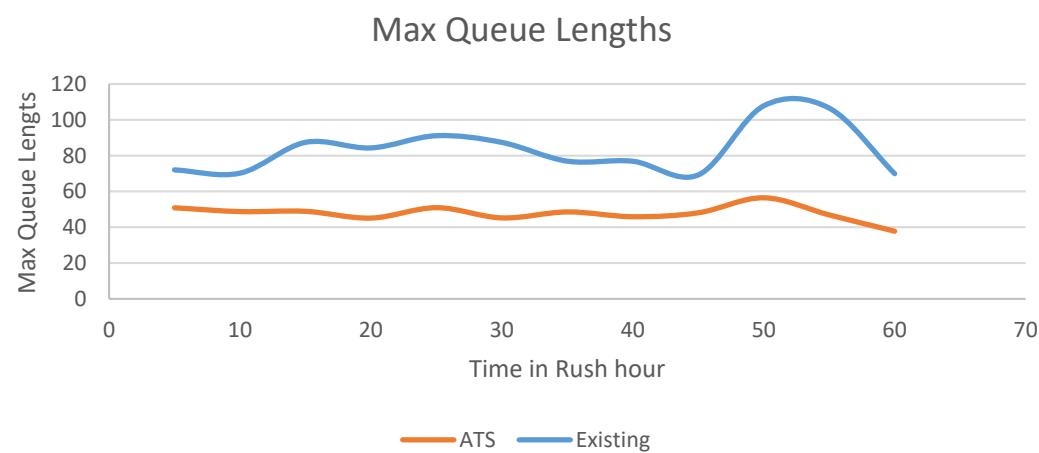
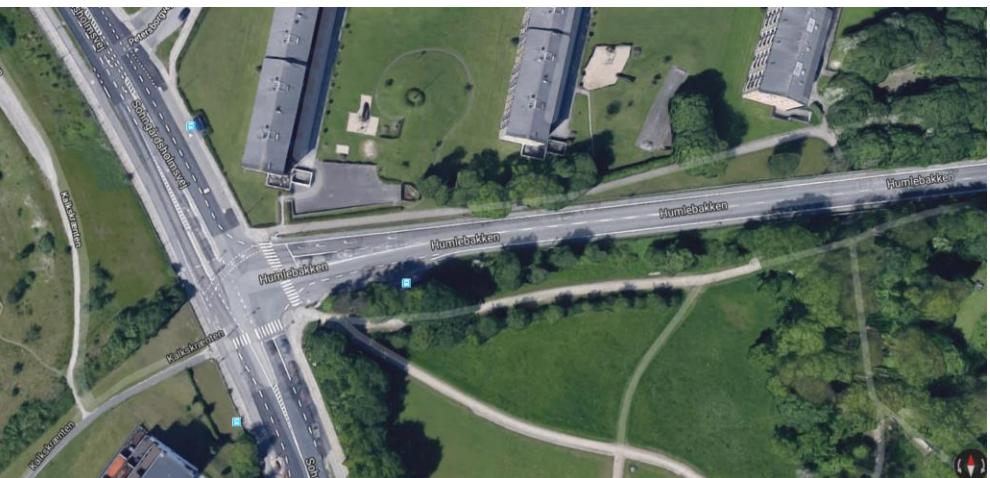
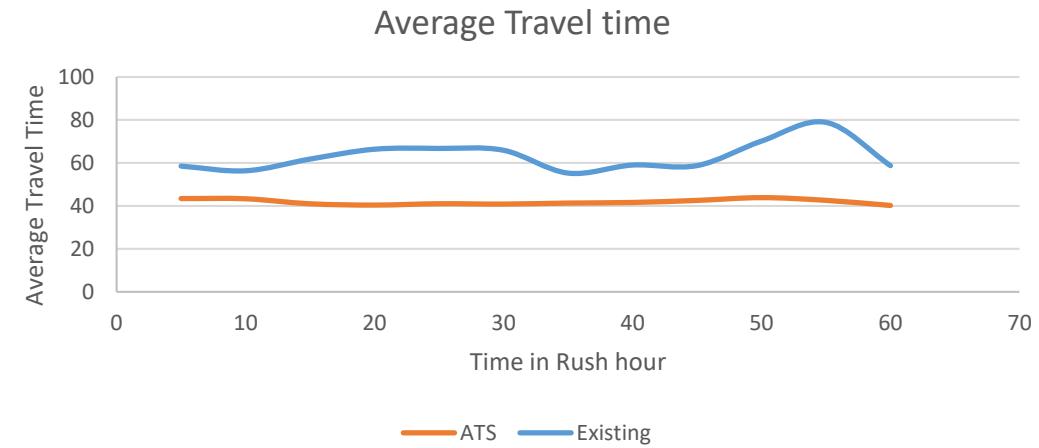
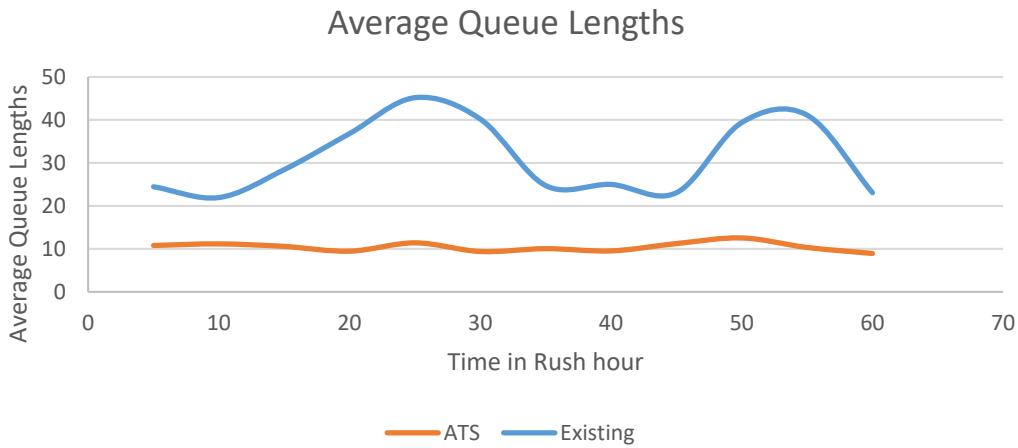
- Travel times for the main direction in rush-hour
- Effectively eliminates the increase in travel time in the northbound direction

- Significantly decreases the travel times for both directions

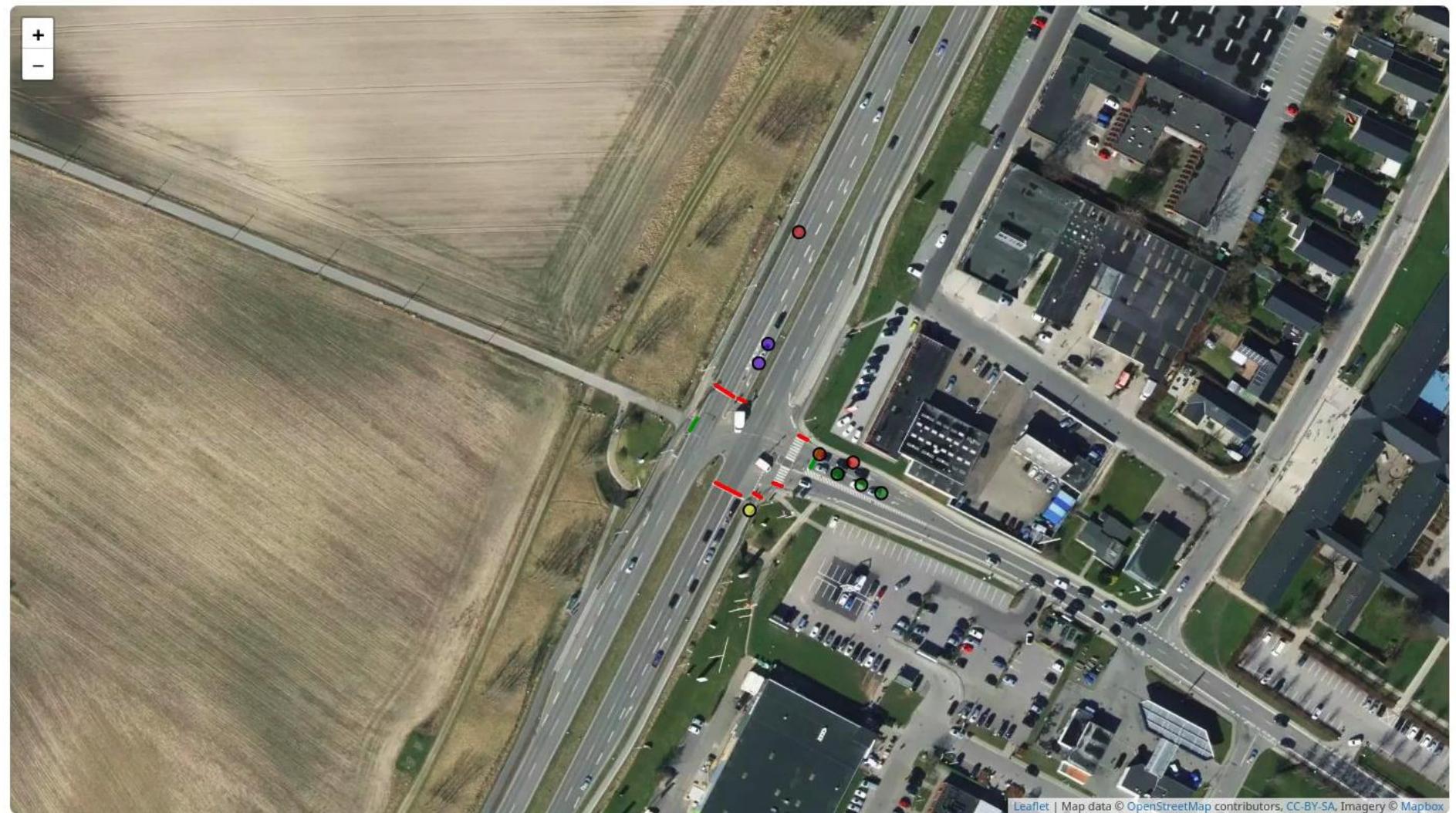
SIMULATION ESBJERG HAVN



SIMULATION HUMLEBAKKEN AALBORG



ATFlow All intersections



Signal group plans



Århus

Grenåvej/Egå Havvej

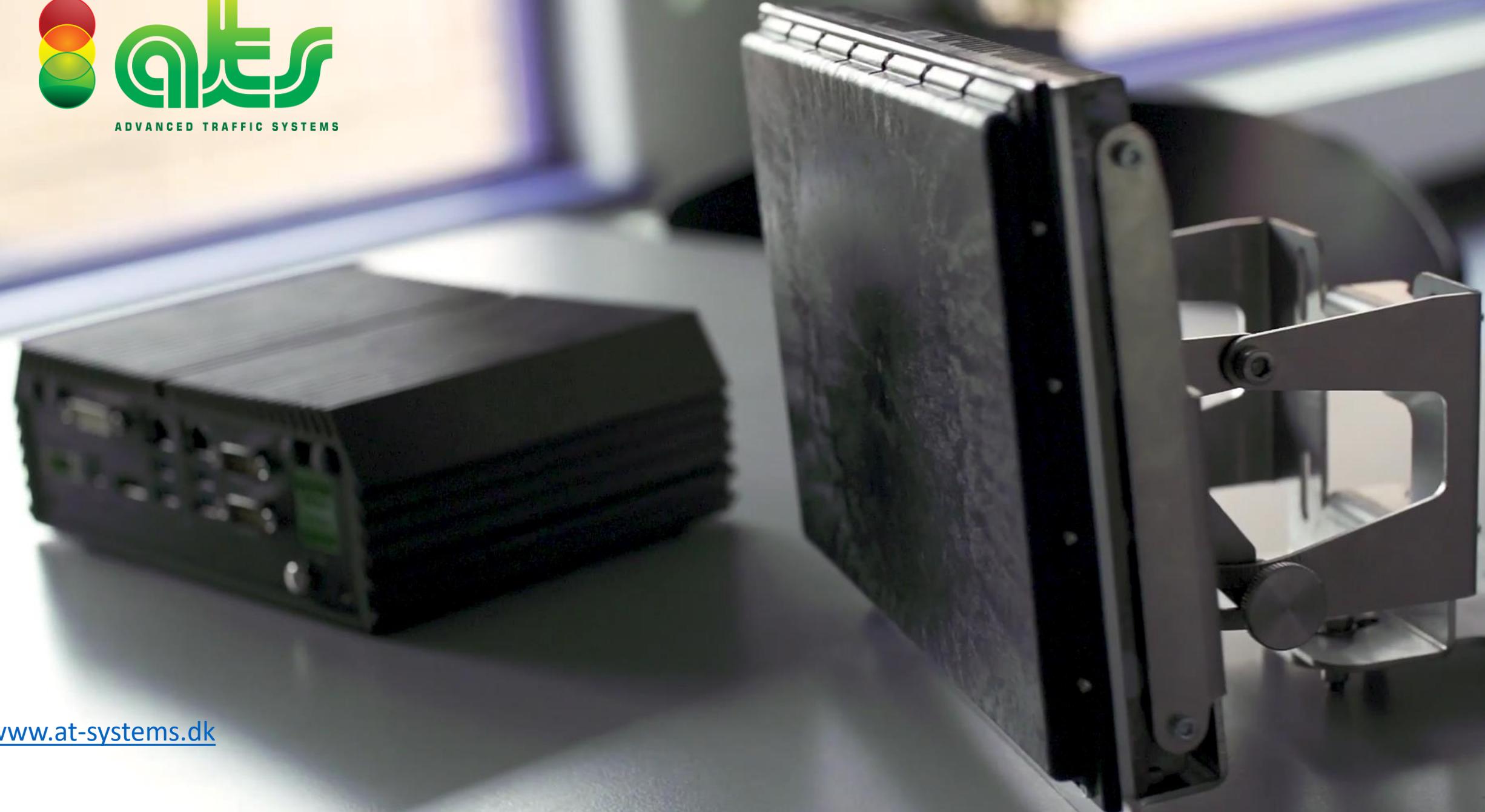
Settings

Freeze

- Show raw
 - Show processed
 - Show trace
 - Show signals
 - Show radar

Priorities





www.at-systems.dk