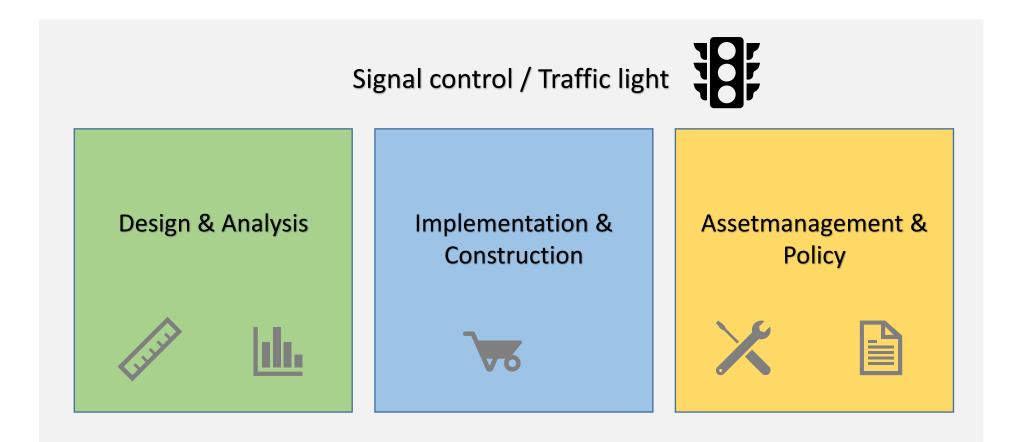


a bright light on Amsterdam Bicycle Traffic Lights

- 1. Organisation (what to expect)
- 2. Dutch approach
- 3. Amsterdam situation
- 4. Recent measures at junctions
- 5. (dis)Advantages
- 6. Connection with junction design >>> next presentation



1. Organisation Amsterdam



- Traffic lights in front of the conflictarea
- Stoplines
- Detection (loop, push buttons)
- Seperate lights = individual approach



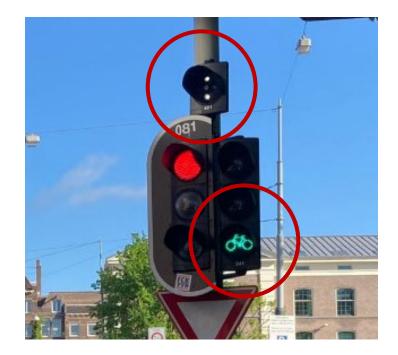
- Traffic lights in front of the conflictarea
- Stoplines
- Detection (loop, push buttons)
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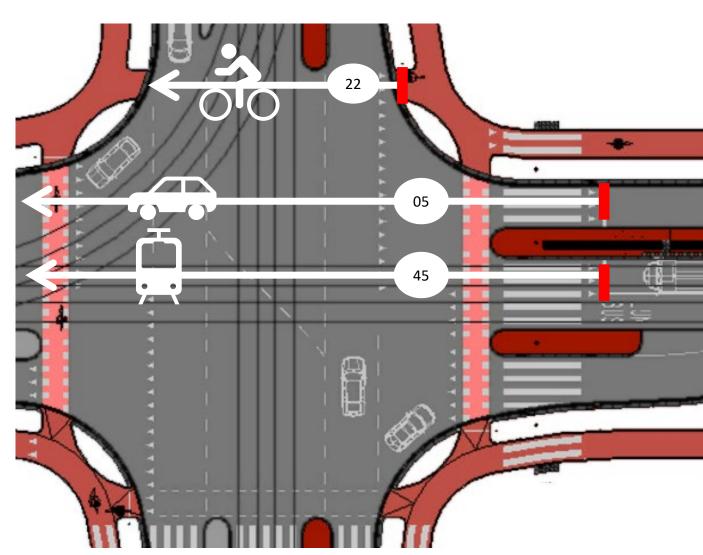


- Traffic lights in front of the conflictarea
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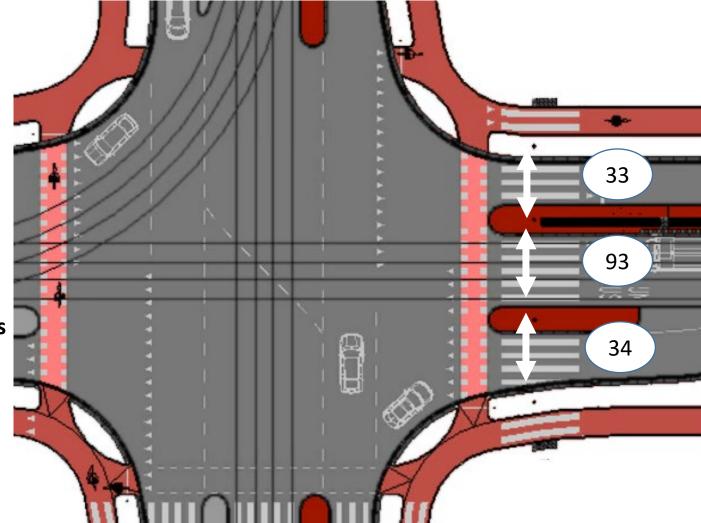


- Traffic lights in front of the conflictarea
- Stoplines
- Detection (loop, push buttons)
- Seperate lights = individual approach minimize conflicts

Why the Dutch Wait Less at Traffic Lights

https://youtu.be/knbVWXzL4-4



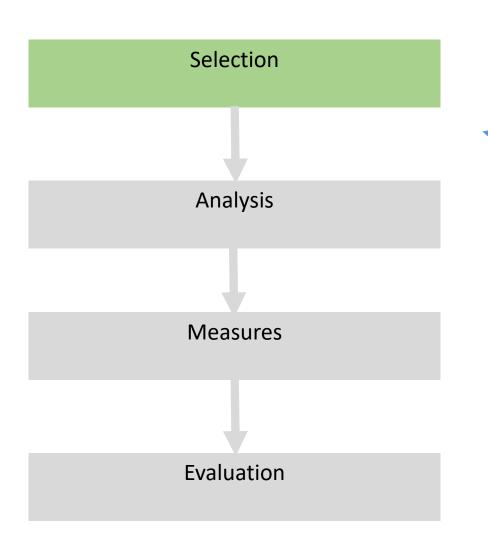


3. Amsterdam situation

- Large amount of bicycles
- Lack of space
- Focus on efficiency and optimalisation (by analysis) on all traffic
- Strong connection between the design of the traffic control system and design of the junction



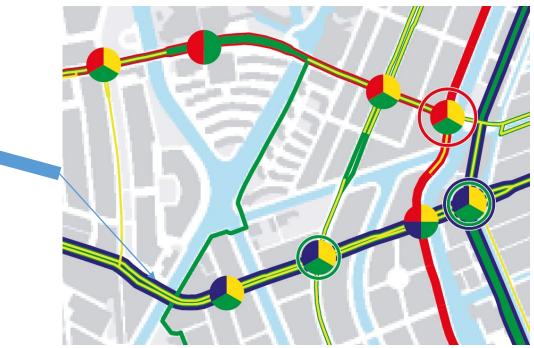




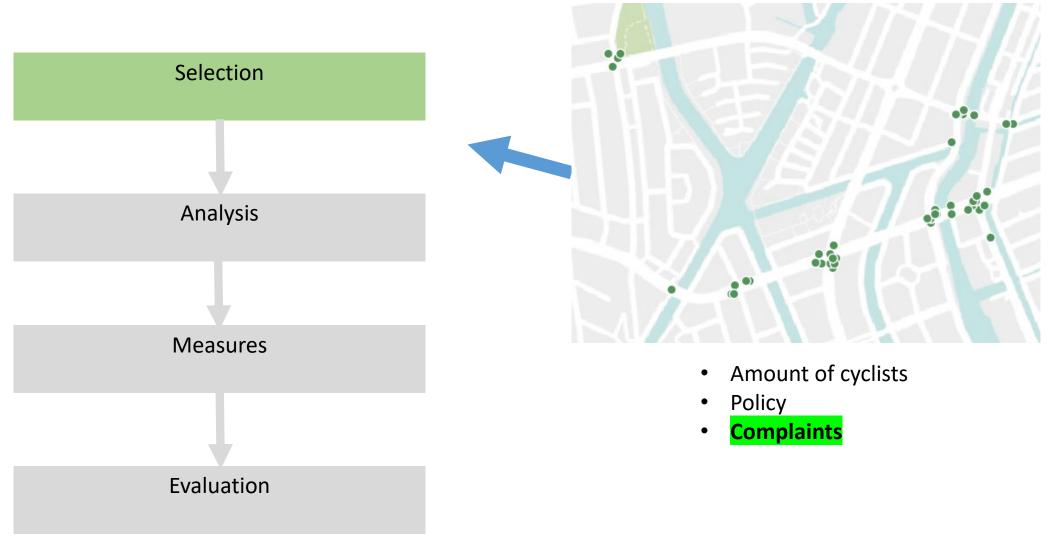


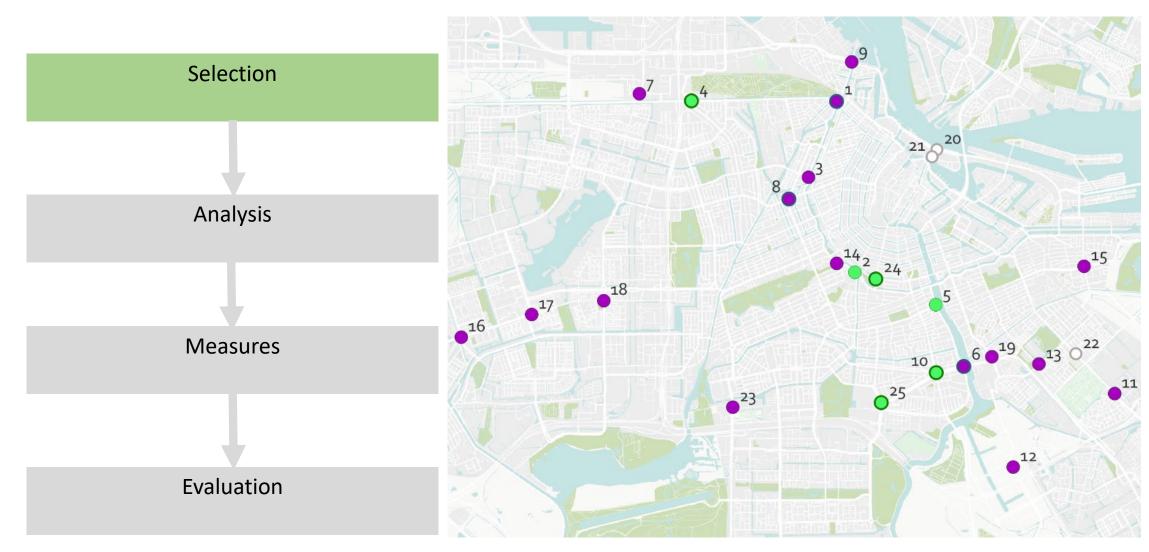
- Amount of cyclists
- Policy
- Complaints

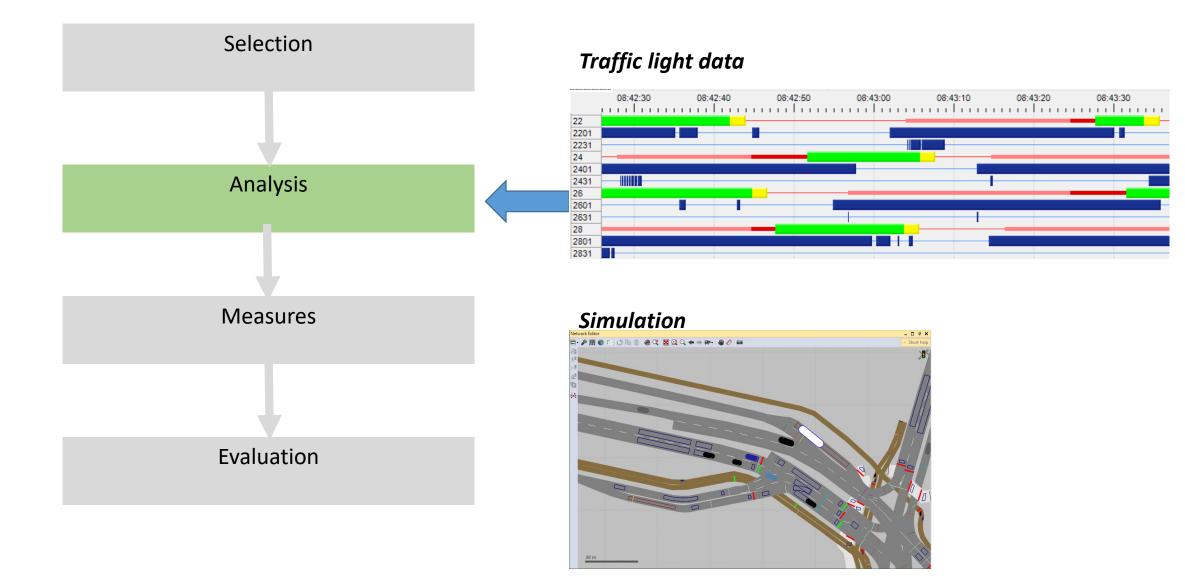


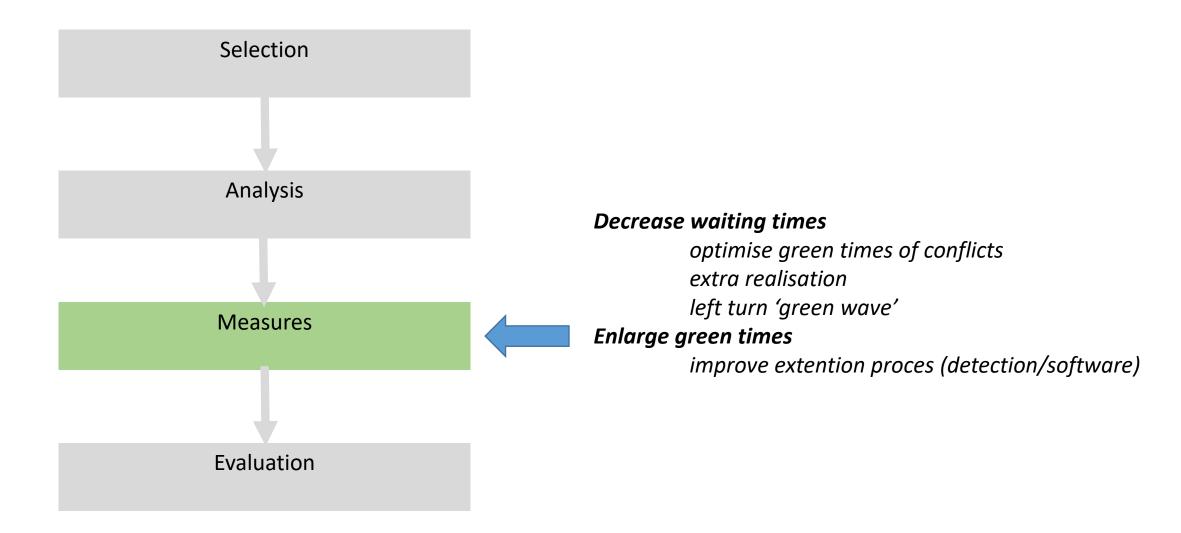


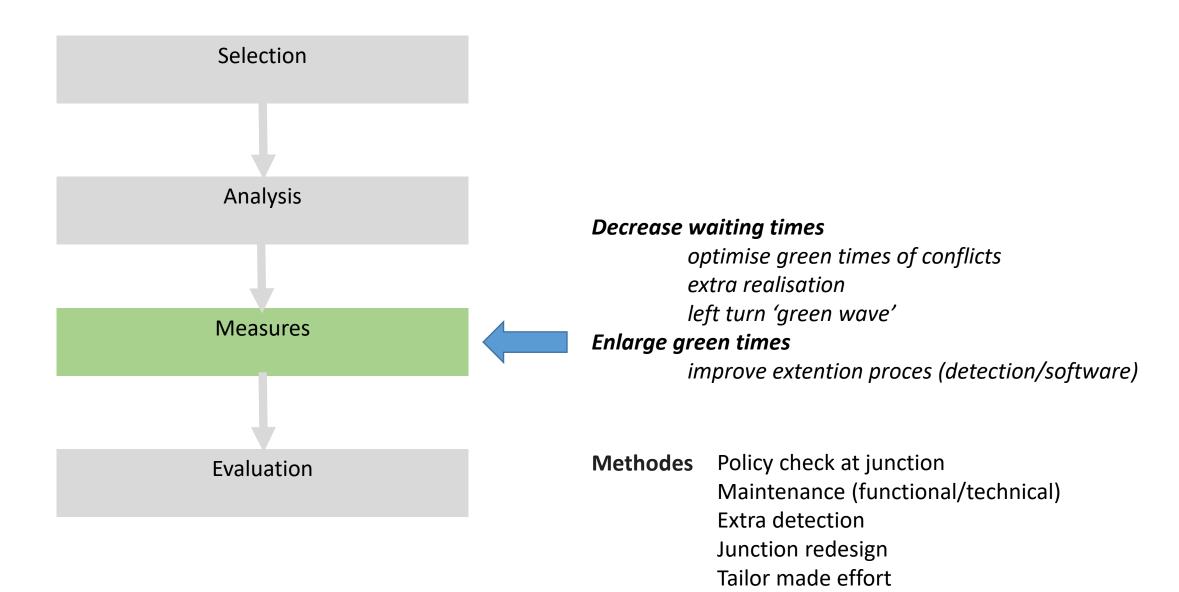
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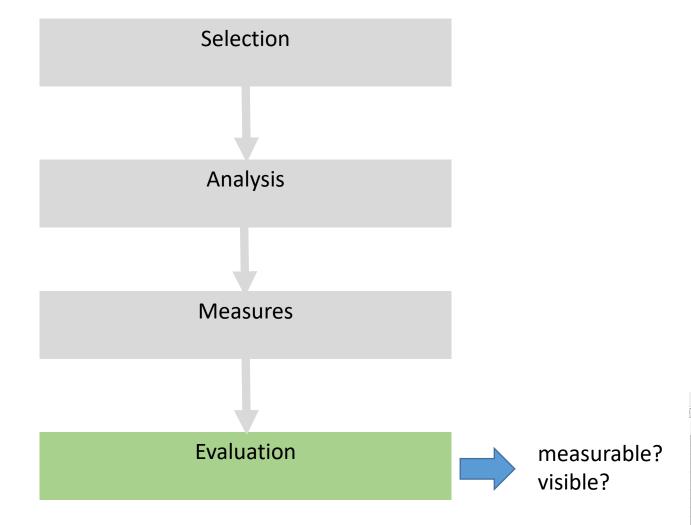






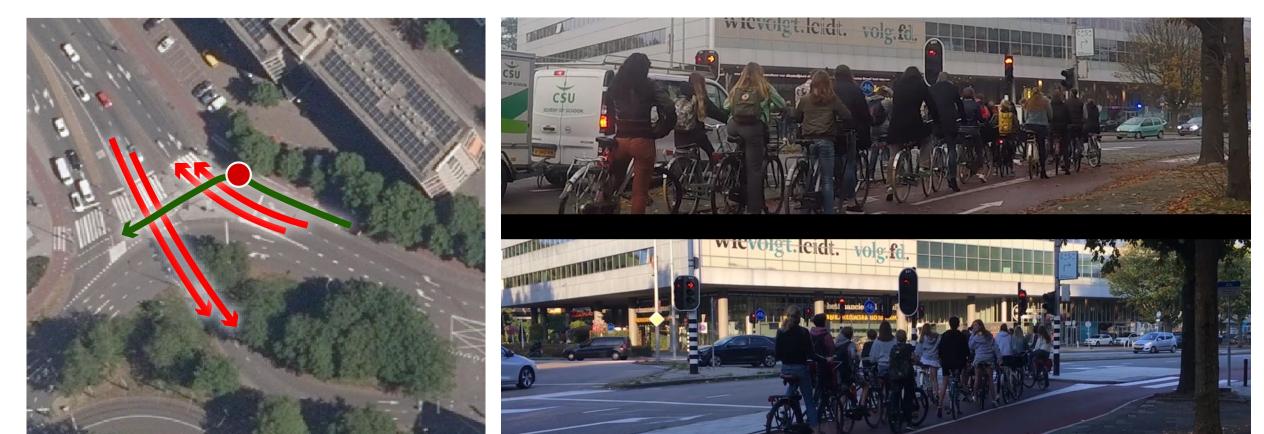




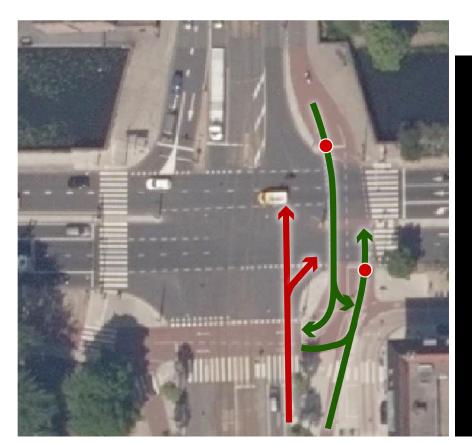




#Prins Bernhardplein, enlarged green time between 7:40 and 8:30 (tailormade approach) combined with an infrastructure solution (make the crossing more wide at the stopline) Policy at this intersection is focussed on car. Crossing is very busy with cyclists in a very short timewindow. The solution is to fix this problem in a short time window to make it safe.



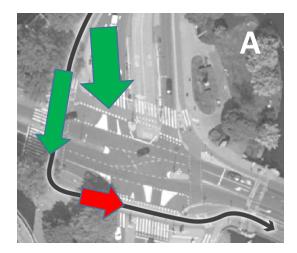
#Adm.de Ruyterweg/Haarlemmerweg Decrease waiting times

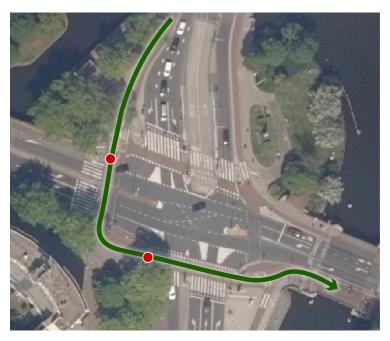


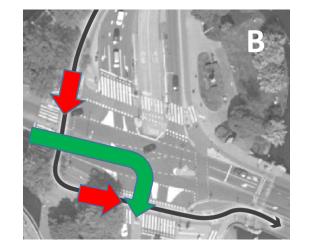
Measure 1 =partial conflict (policy+redesign)Measure 2 =Finetuning by data/film (maintenance)

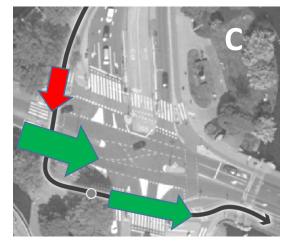


#Nassauplein, decrease waiting times (left turners)
Simple solution:
Instead of scheme ABC.. Change it to ACB
A little inefficient overall.. But very big improvement for busy left turn.









Innovations

- A. Improving data-analysis
- B. Detectionmethodes: heathcamera
- C. Optimise green times without detection ('Reverse engineering')

5. (dis)Advantages

Dutch (individual) approach on traffic lights:

Disadvantages

- road users can get distracted by traffic lights of other users (influence on behavior)
- more technical features means more assetmanagement and more analyses and backup system

Advantages

- flexible, a lot of options for optimalisation. This has an effect on:
 - waiting times
 - the junction design

6. Connection with junction design >> next presentation

