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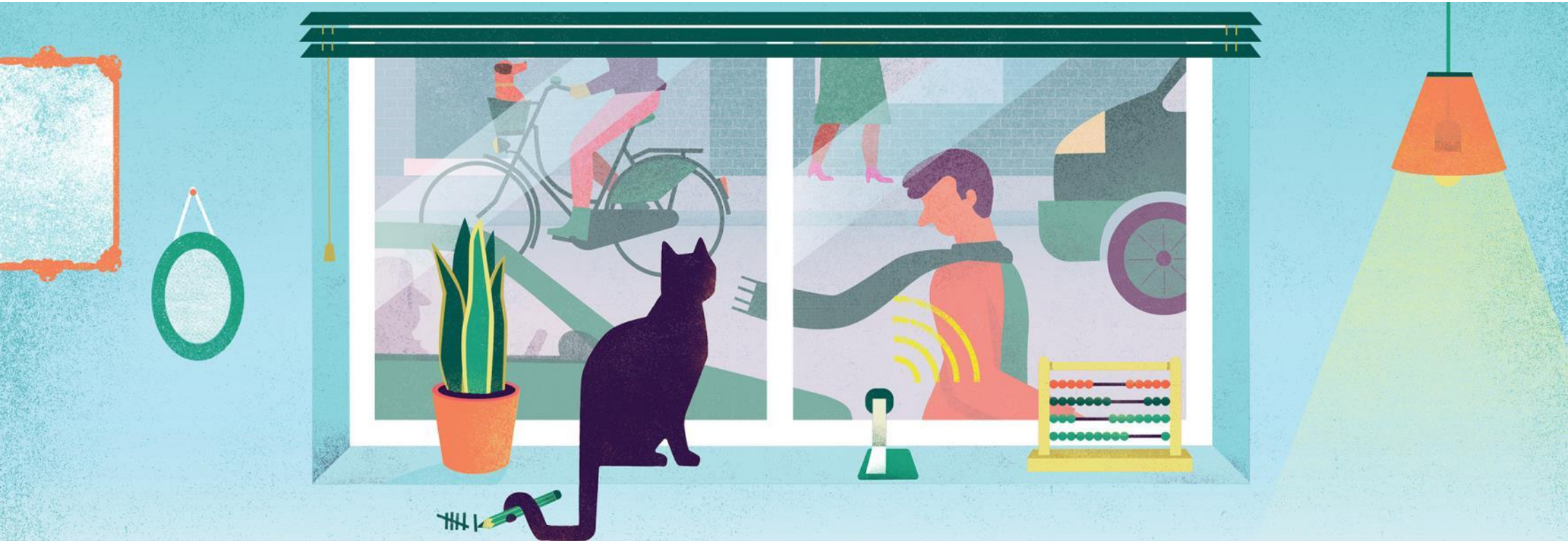
FOSS4G | 24/10/2019 | Willem Himpe



A tray, a sensor behind the window with a camera counting **permanently** :

- **Cyclists**
- **Cars**
- **Pedestrians**
- **Trucks + coaches**

#ModalSplit
#Speeds

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Replacing expensive counters.

1 counter/week = 5 x Telraam permanent

#LowCost

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That's how we give citizens a **voice**.

In this way, they can work with the municipality or city council **to adjust the circulation, ask for extra cycling space or prevent traffic jams**.

The measurement data also **objectify** the gut feeling of citizens.

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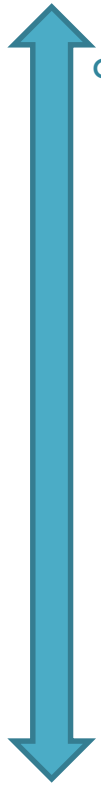
MATRIX OF POSSIBLE MEASURES

- Basis for constructive neighborhood dialogue
- Traffic direction adjustments
- Choice of an optimal approach route towards cycle highways
- Adaptation of parking facilities/zones
- Background info sweeping routes
- Speed reduction measures
- Detection and dispersion of traffic
- Impact of road works on diversion
- Distribution effect of road works on diversion
- Adaptation of light control of traffic lights
- Input and adjustments to the mobility plan
- Infrastructure adaptations
- …



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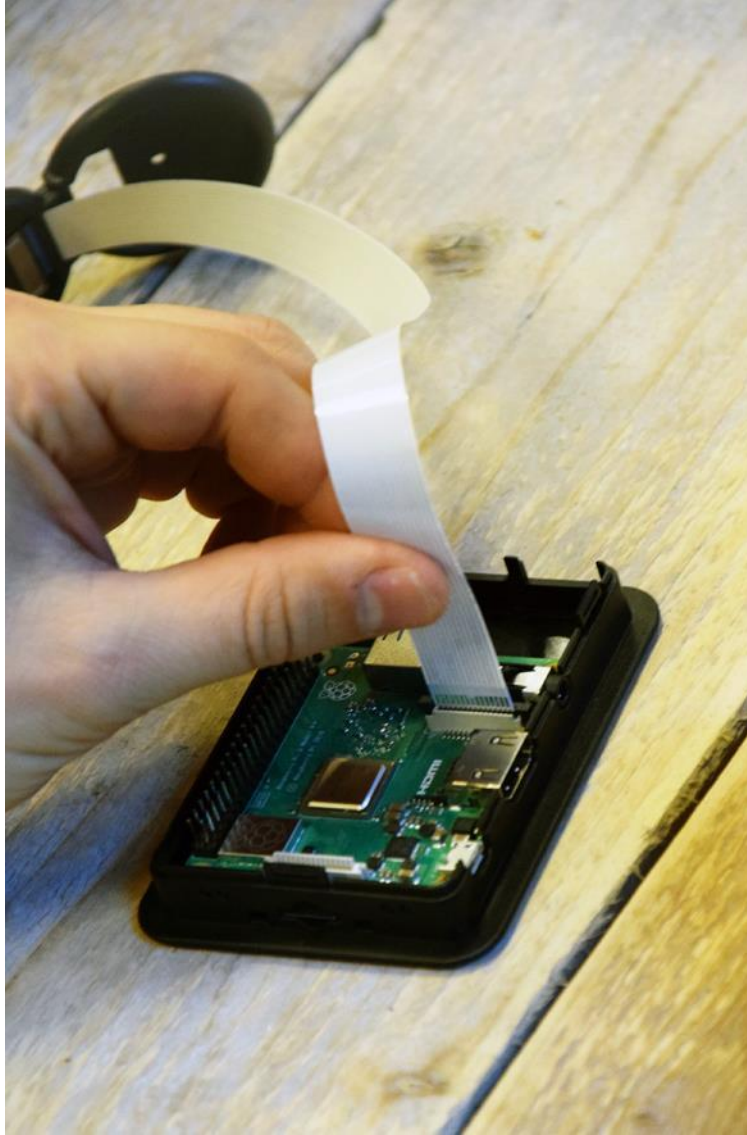

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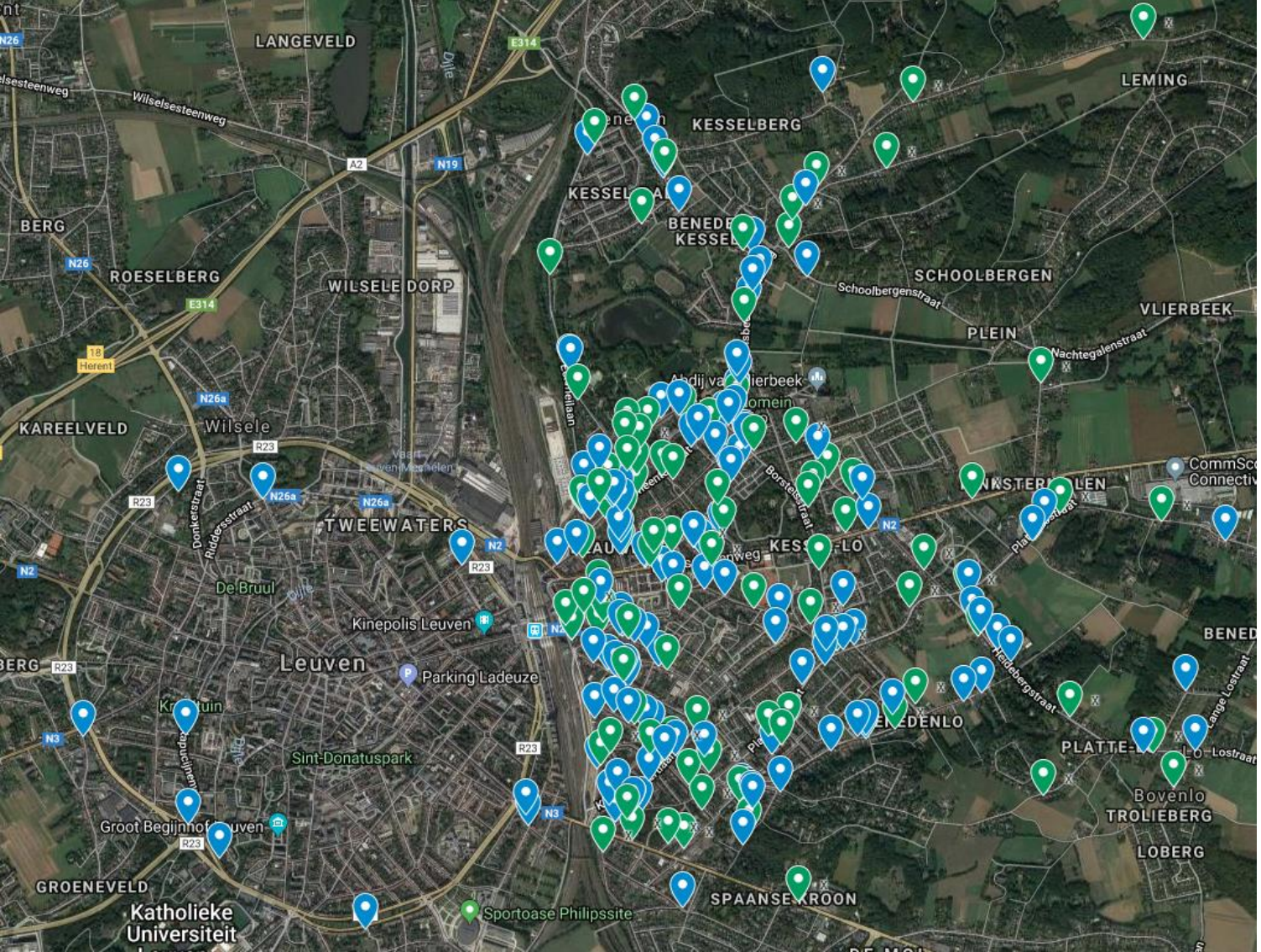
PILOT KESSEL-LO (LEUVEN)



Together with citizens we will do traffic counts.

No less than 250 people were interested in Kessel-Lo.

And finally 100 were selected.

#CitizenScience

#Participatory

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PILOT KESSEL-LO

Telraam
@TelraamTelraam

Volg je nu

En we zijn vertrokken met de eerste 50 Telramers! Vanaf morgen permanente verkeerstellingen door burgers in Kessel-Lo #CitizenScience

20:12 - 21 mrt. 2019

3 retweets **18** vind-ik-leuks

2 3 18

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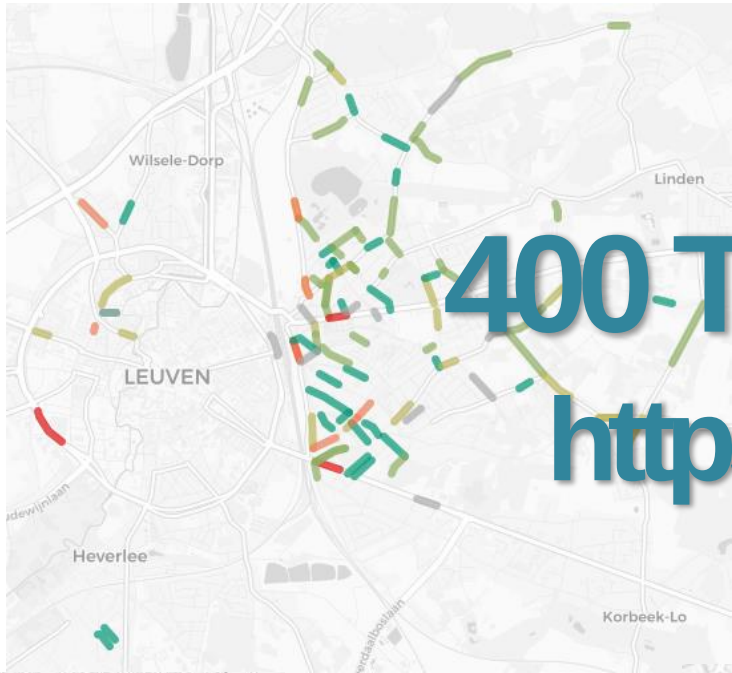
TELRAAM - DATA

Leuven



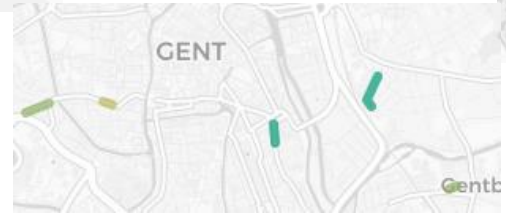
Antwerpen

with Straatvinken

400 Telramen live*

https://telraam.net

Aarschot



Gent

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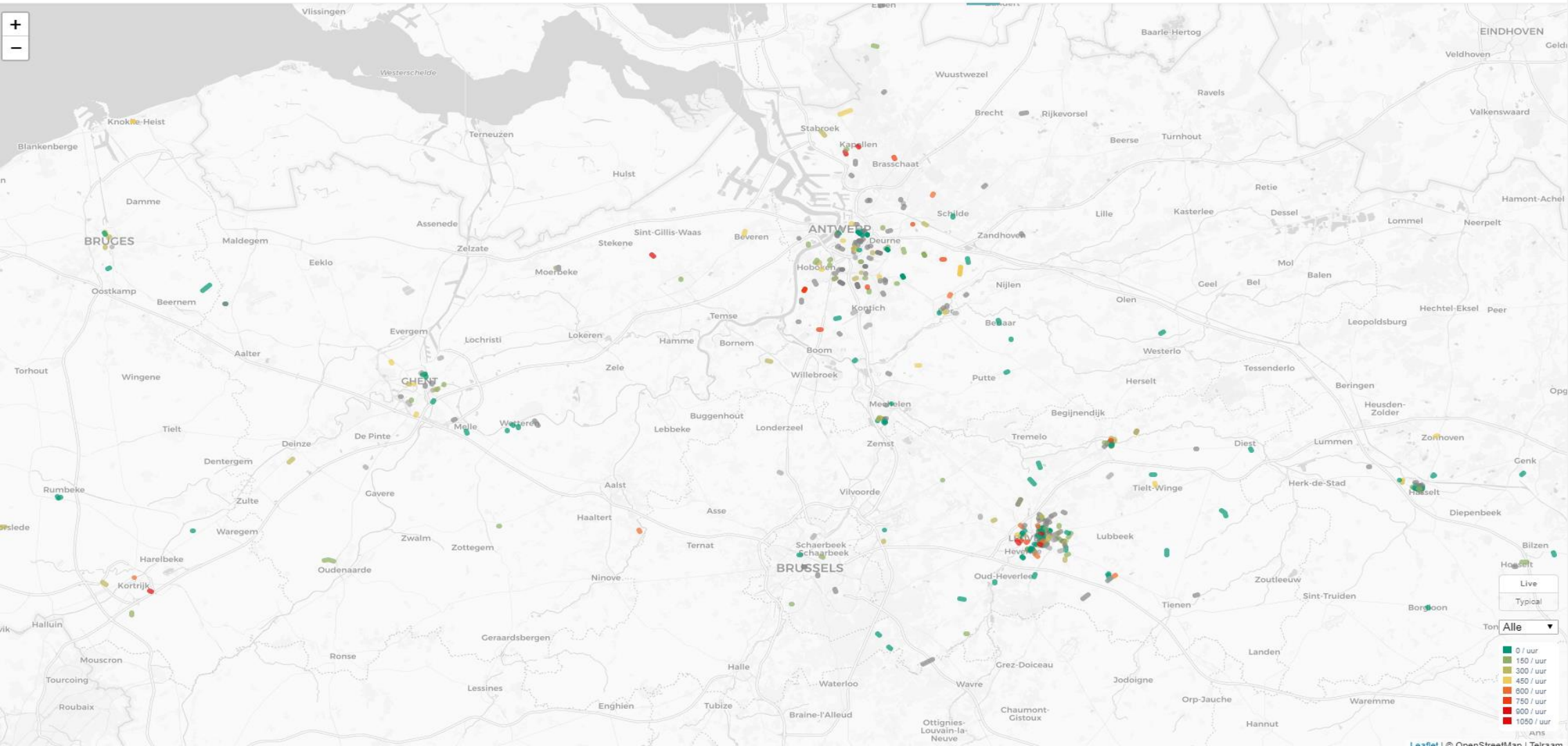
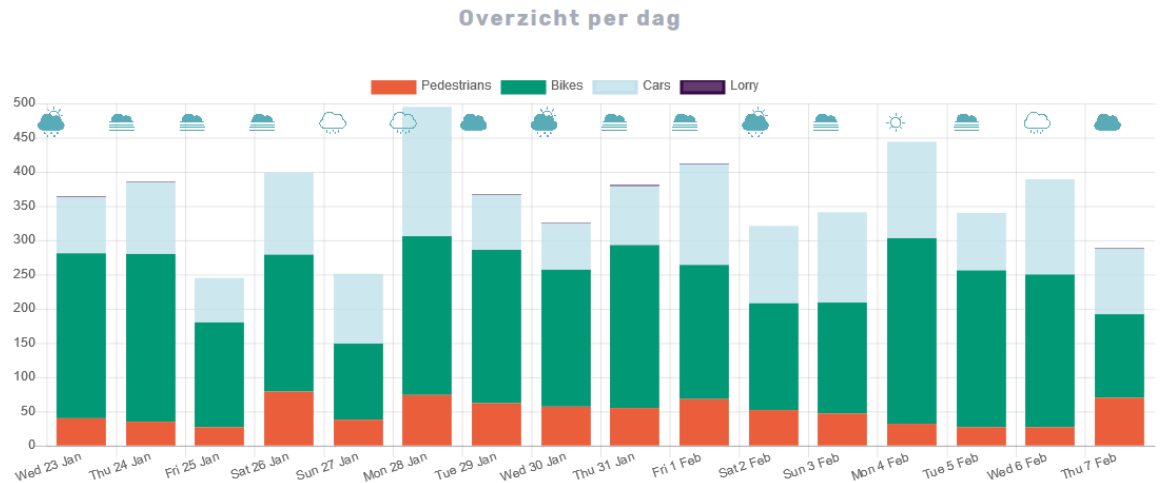
Brussel, Diest, Scherpenheuvel, Westerlo, Tienen, Hoeselt, Brugge, Mechelen. . .


Live
Typical
Alle
0 / uur
150 / uur
300 / uur
450 / uur
600 / uur
750 / uur
900 / uur
1050 / uur
Leaflet | © OpenStreetMap | Telraam

VISUALISATION MODAL SPLIT

Pedestrian	790 13.74 %	Bike	3203 55.70 %
Car	1749 30.42 %	Lorry	8 0.14 %



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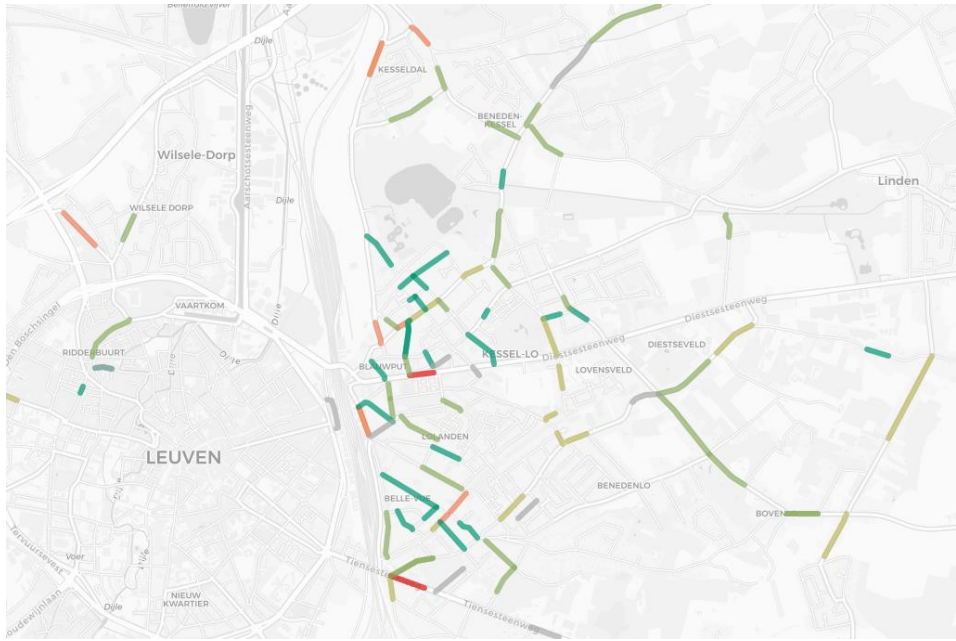
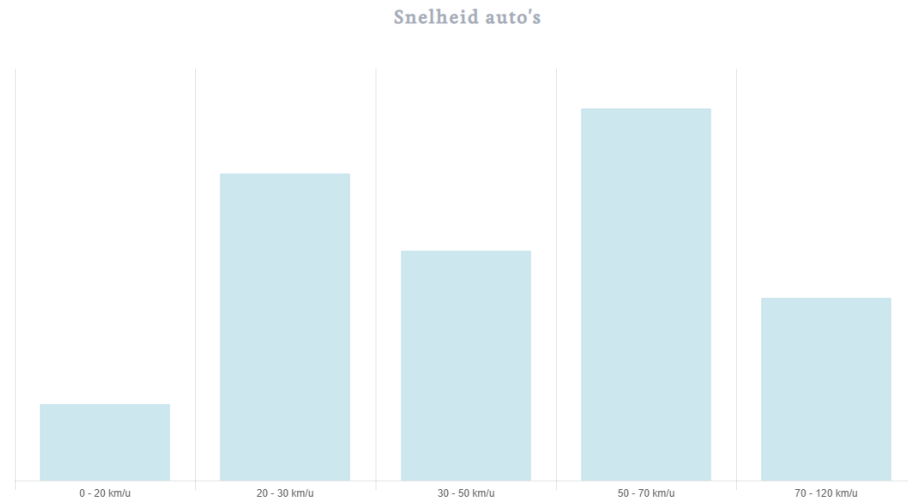
VISUALISATION SPEEDS





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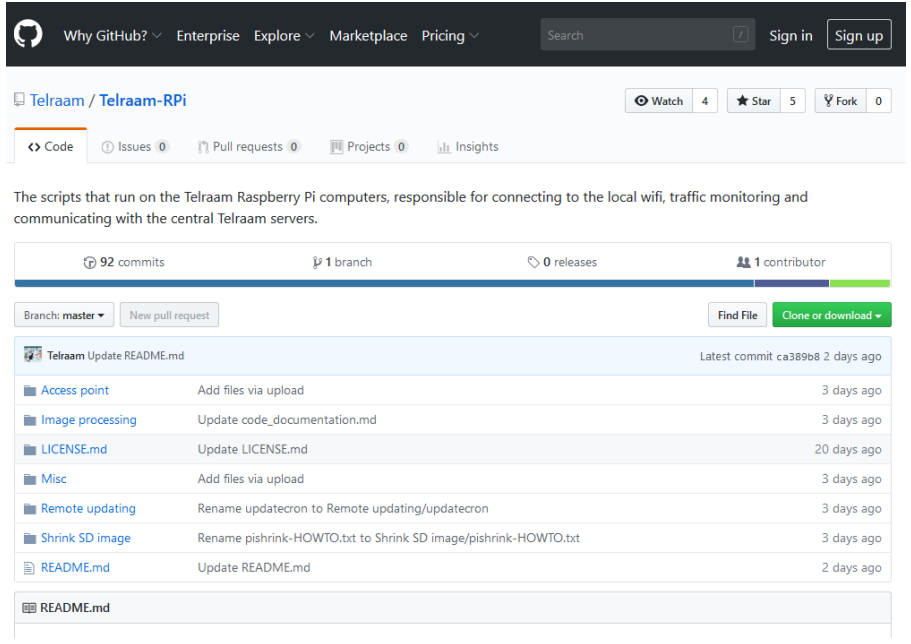
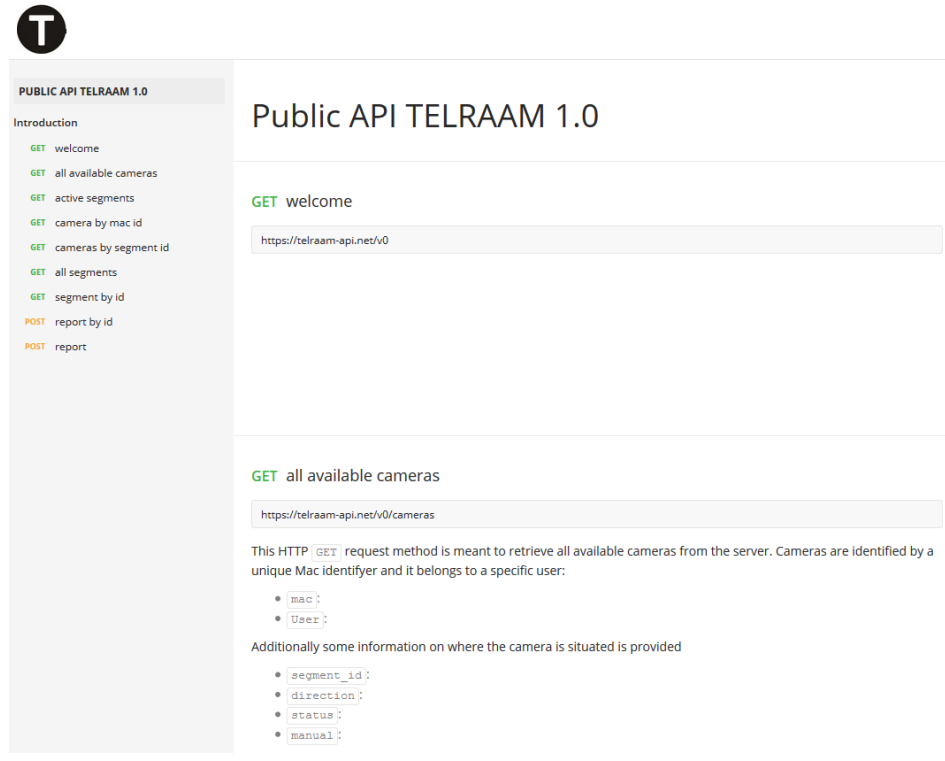
Future developments

Community

- https://github.com/Telraam/Telraam-RPi
- https://telraam-api.net/





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Smart Mobility Belgium Project
Start September '18 > 2 Years
Strong multidisciplinary team
https://www.smartmobilitybelgium.be/projets

waanz.in

MOBIEL21
ZET MENSEN IN BEWEGING

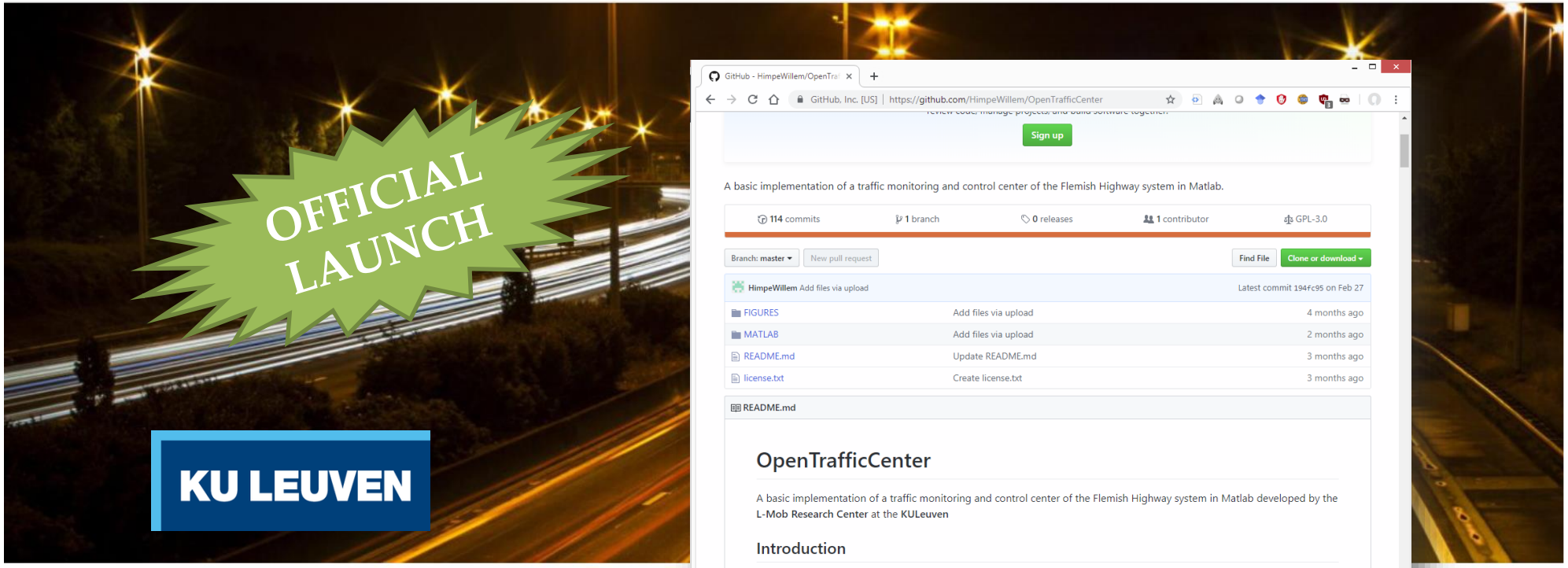
TRANSPORT & MOBILITY LEUVEN

.be

KU LEUVEN

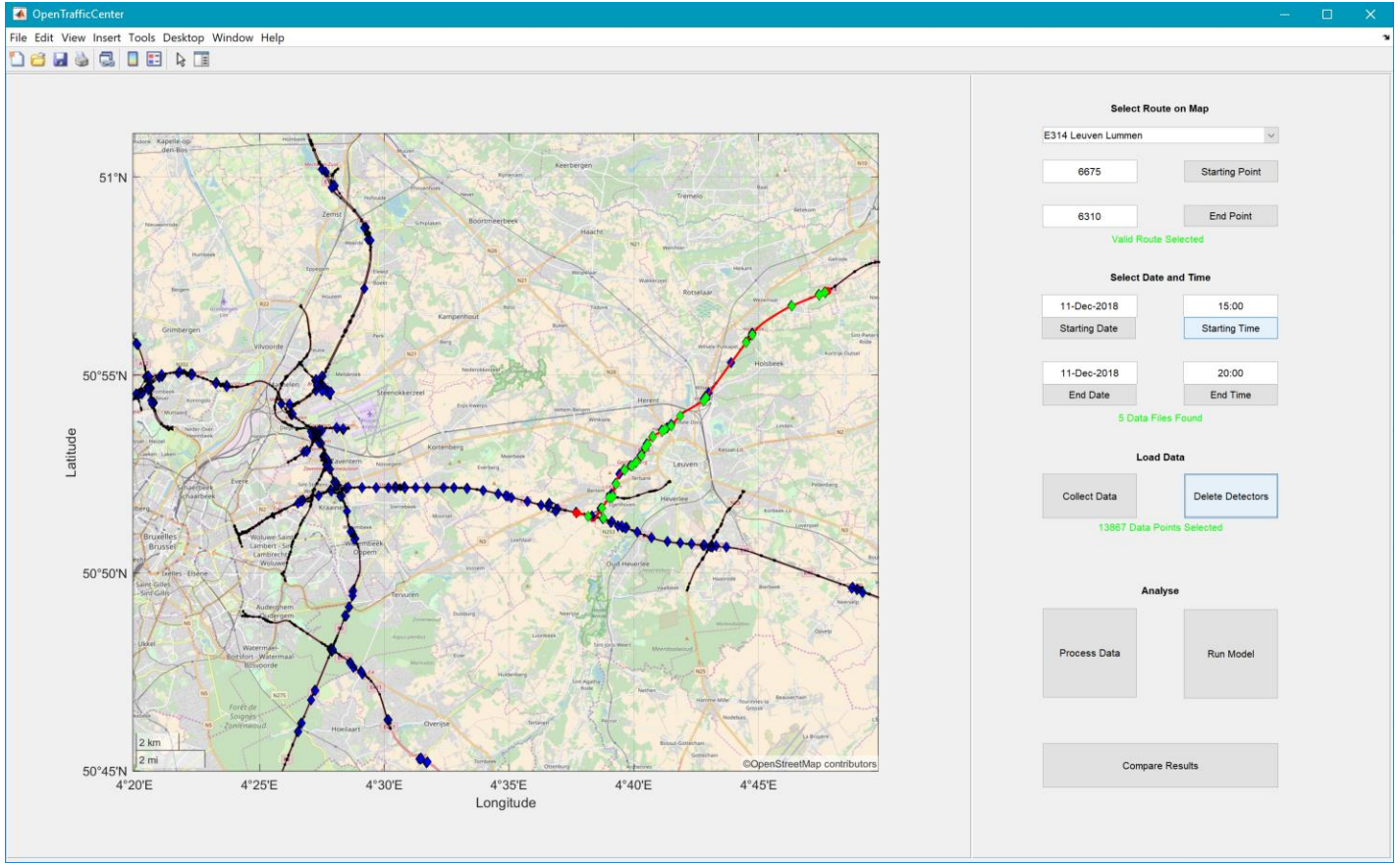
Automatic simulations of highway traffic based on open source count data

willem.himpe@tmleuven.be
willem.himpe@kuleuven.be



Welcome to the CREAtive LABoratory for Intelligent Transport Systems!

OpenTrafficCenter: Visualizing traffic conditions within clicks



https://gitlab.mech.kuleuven.be/ITSCreaLab/

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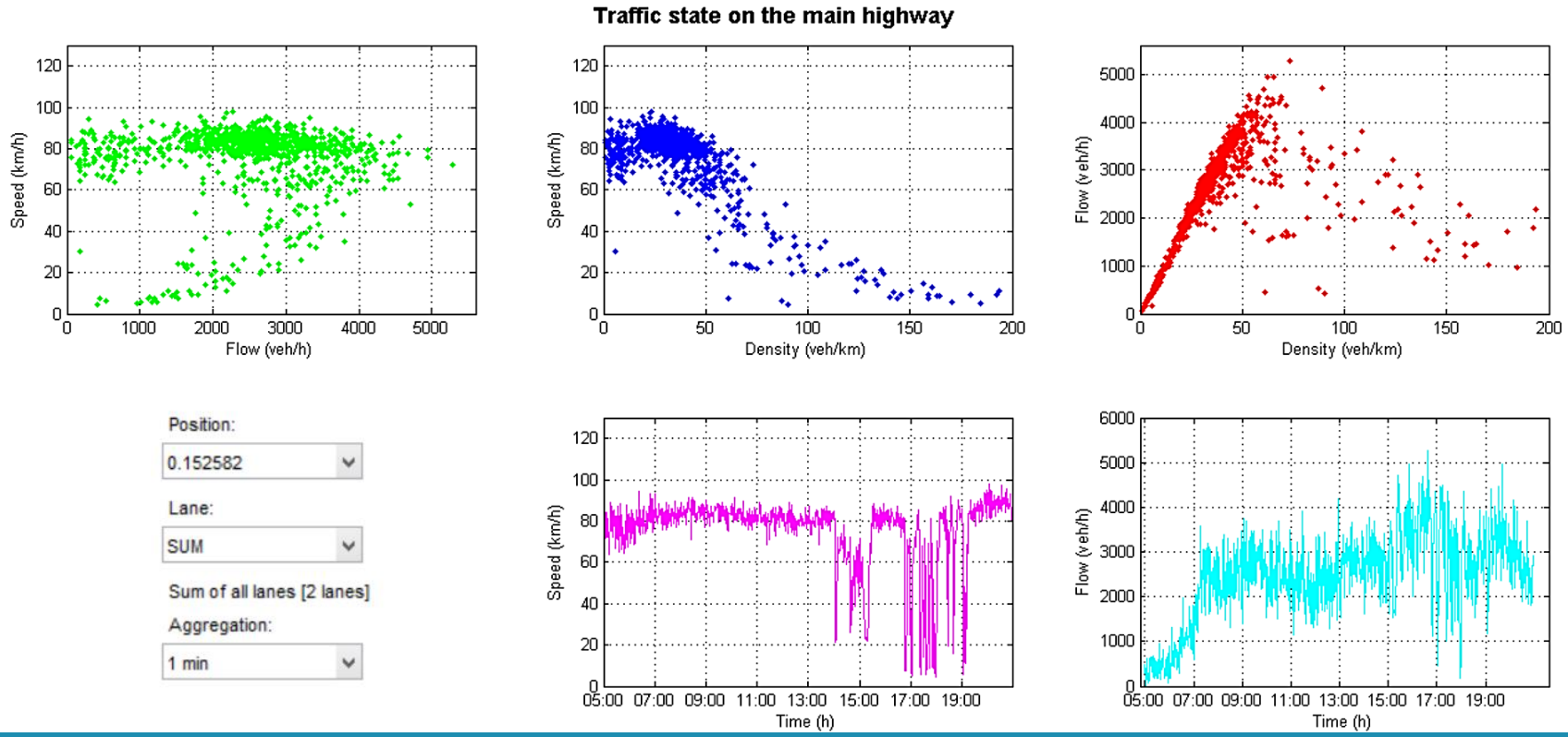
Automatic identification and retrieval of open data traffic measurements along the path between points



https://gitlab.mech.kuleuven.be/ITSCreaLab/

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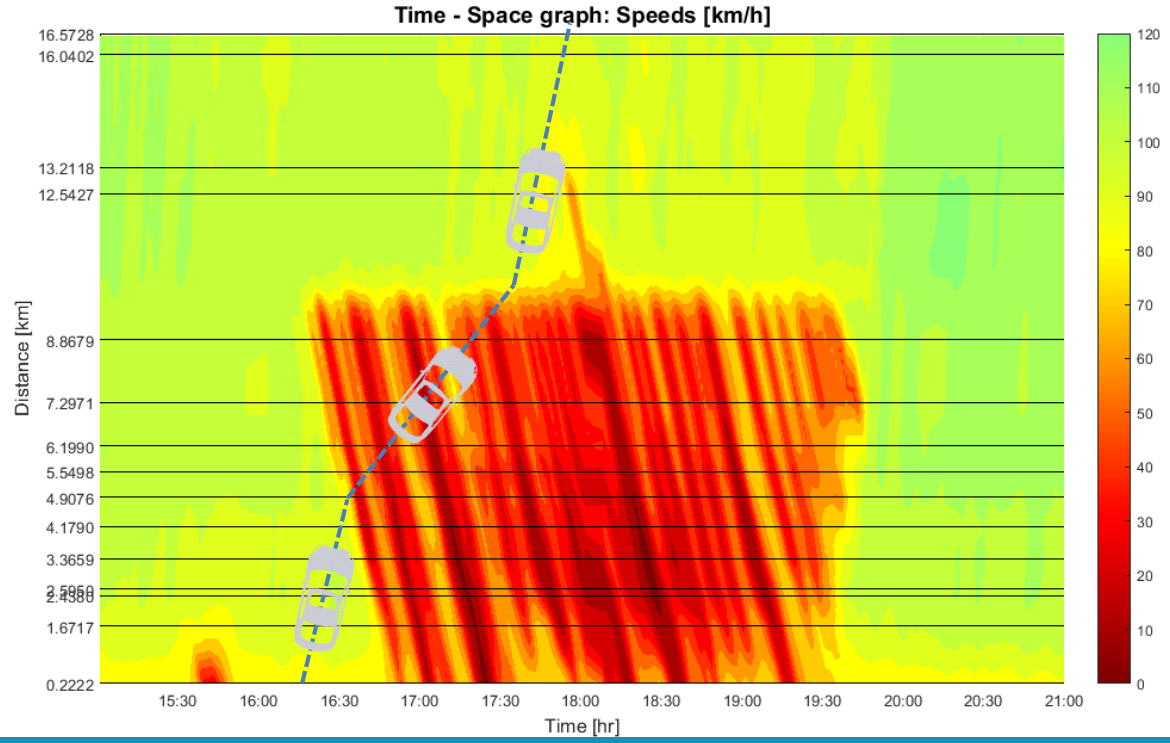
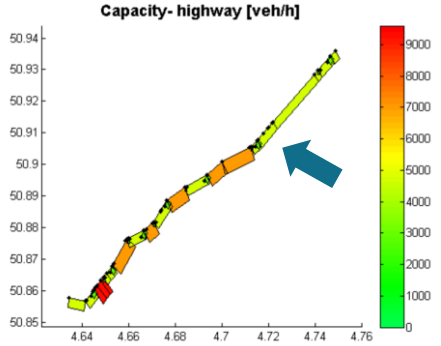
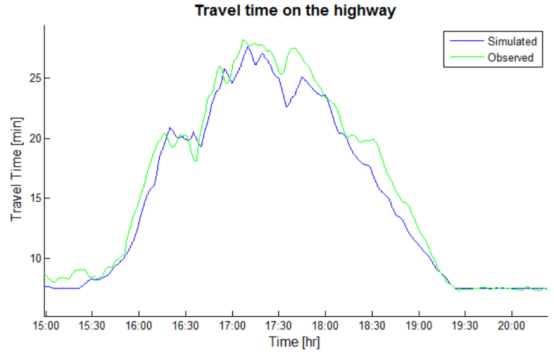
Realtime: Traffic state estimation

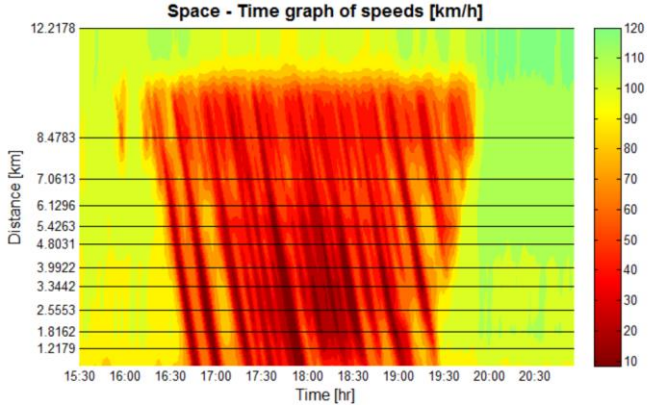
– Data filtering and interpolation

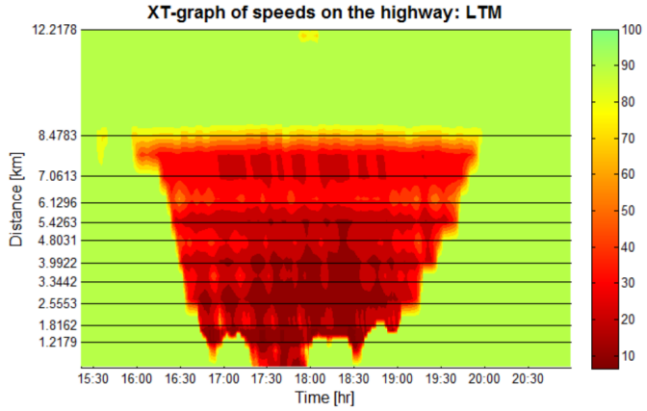


Automated set-up of dynamic traffic simulation









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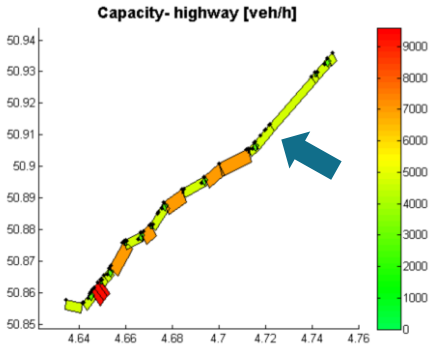
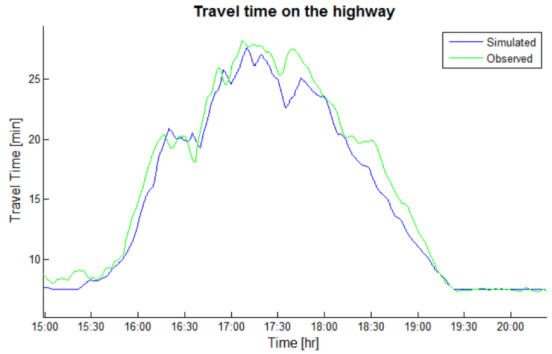
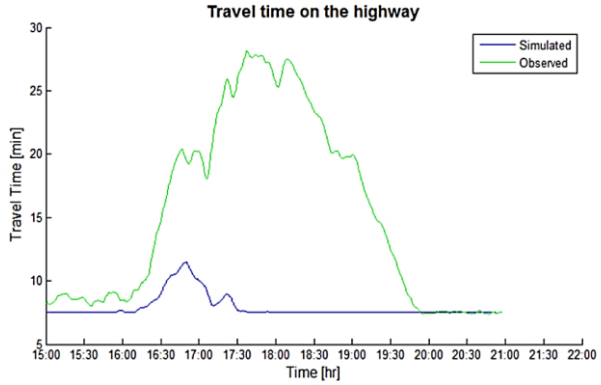
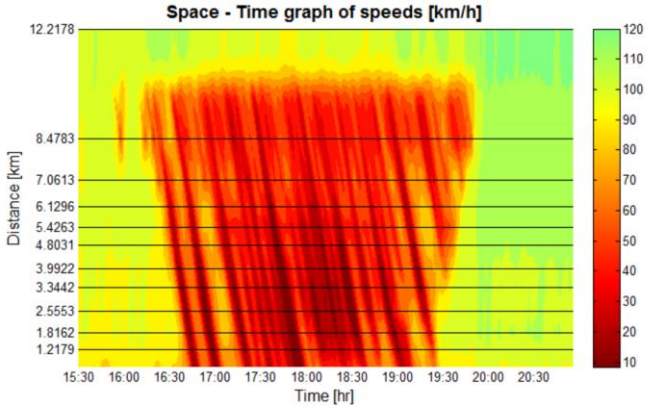
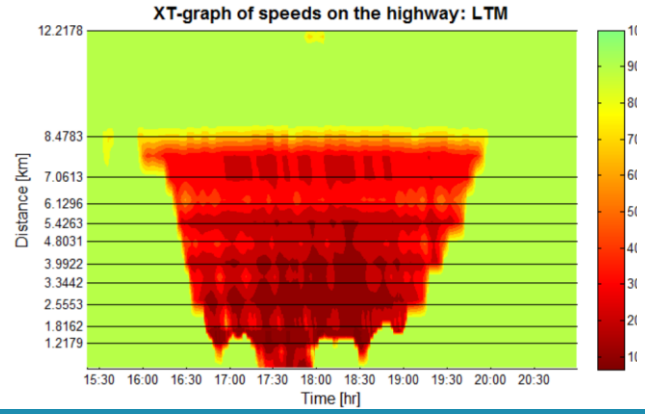
Forecast outcome of scenario's

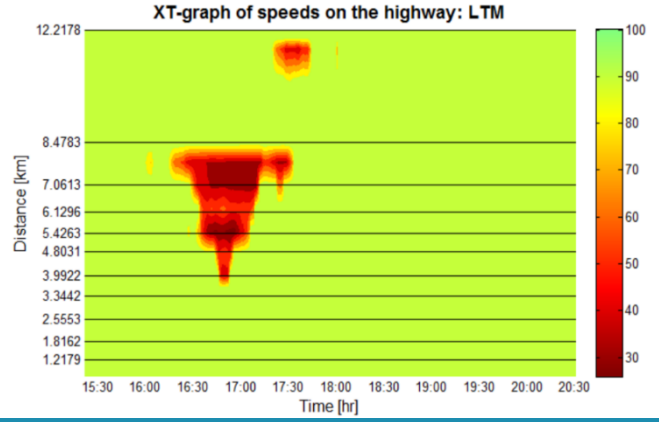












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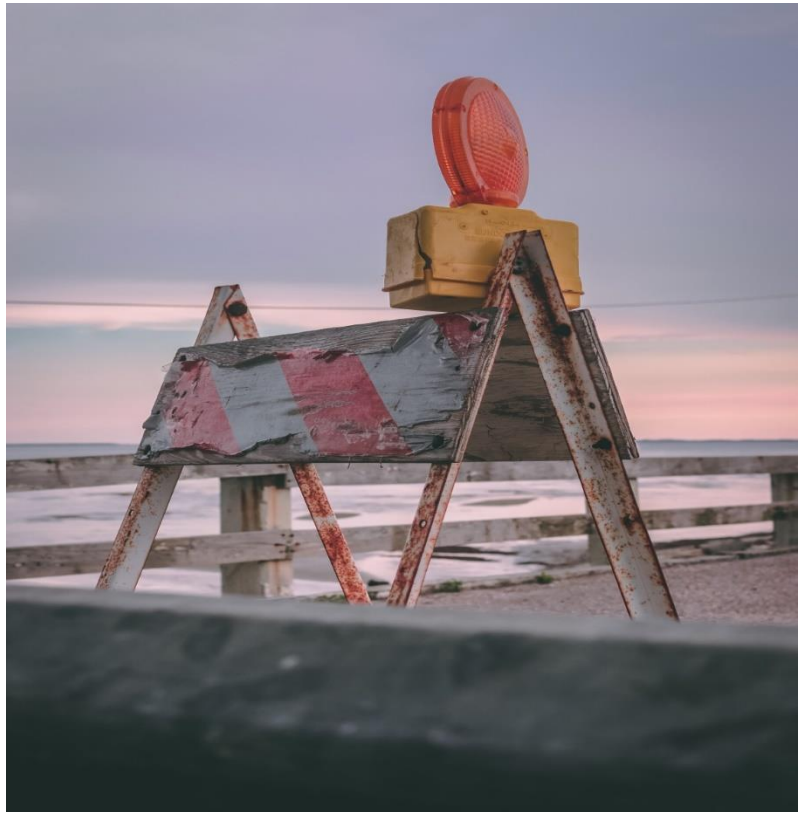
Our mission



Promote the use of (dynamic) traffic models

- Educate
  Most gains are in the algorithms

- Evidence based on observations
  Real-world networks
  Opportunities for open data

- Reduce set-up time
  Large networks require huge efforts
    - Computation time
    - Calibration effort

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Contact : info@telraam.net

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