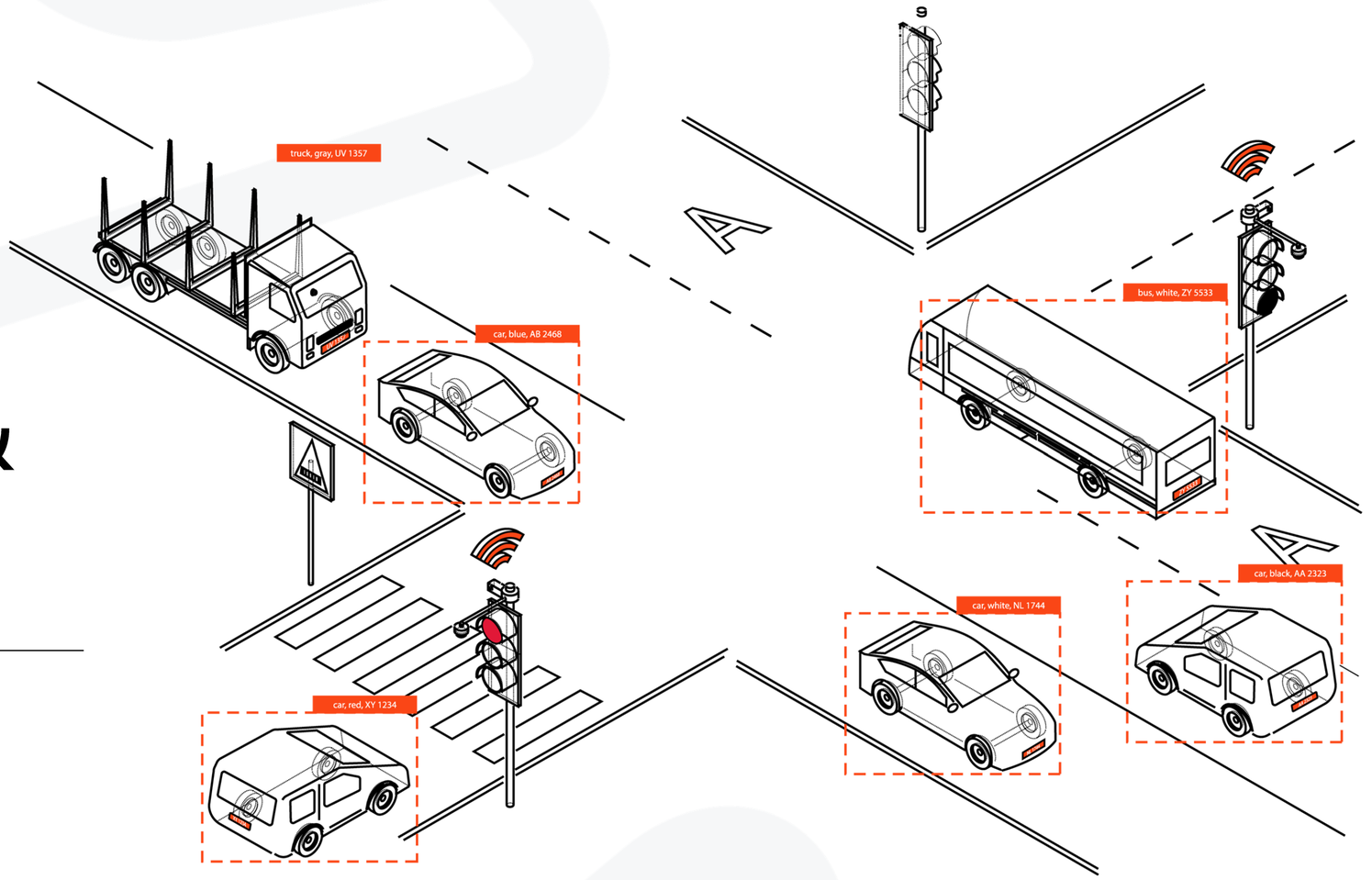
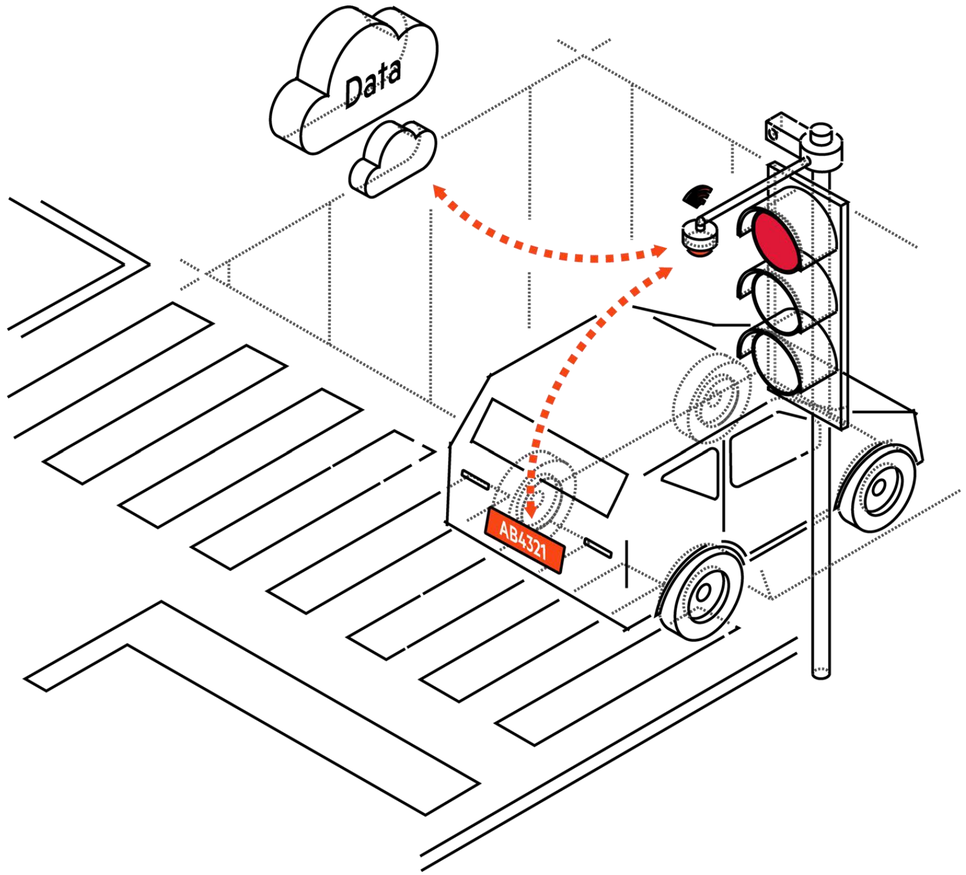
Traffic control & Enforcement

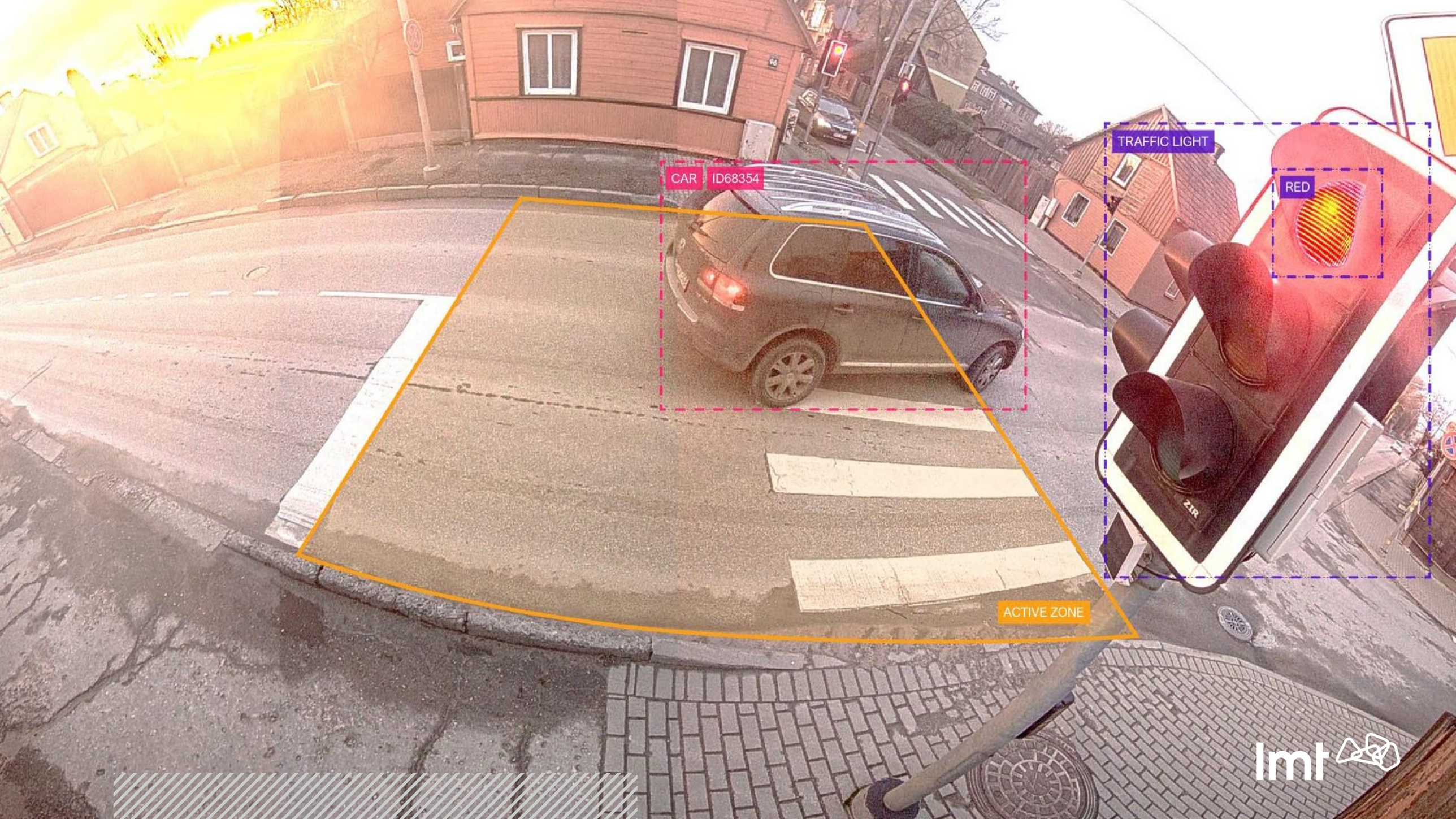
Based on multiple EDGE computing devices



Use cases

- Red light offences
- Intersection blocking
- Public transportation lane offences
- Traffic flow statistics




CAR
ID68354
TRAFFIC LIGHT
RED
ACTIVE ZONE

Value proposition

Scalable –
platform for managing multiple EDGE computing devices

Plug and Play –
easy setup in one day, movable

No building –
no building permits or extensive coordination

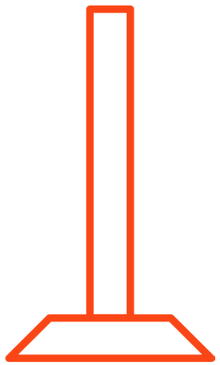
No integration –
independent from 3rd party systems or plugins

WEB access –
Easy access through web interface or API integration

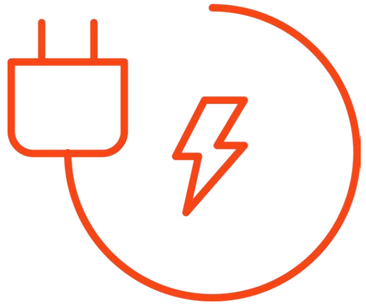
Functionality

- Object detection and classification
- ANPR & OCR
- Trajectory and location awareness
- Traffic signal detection
- Predefined event logic algorithms
- Web interface & API

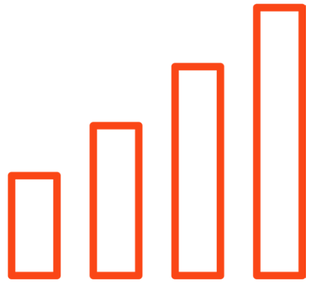
Installation requirements



A fixed post



Electricity connection



LTE / 4G coverage

1. 2. 3.

How does it work

Panoramic & numberplate cameras are mounted on existing infrastructure

Several neural networks work together on edge to analyze the video

Anonymous analytic data is transferred to cloud using 4G

Data is postprocessed on scalable microservice cloud

Only the offenders are identified and the traffic offence report is produced

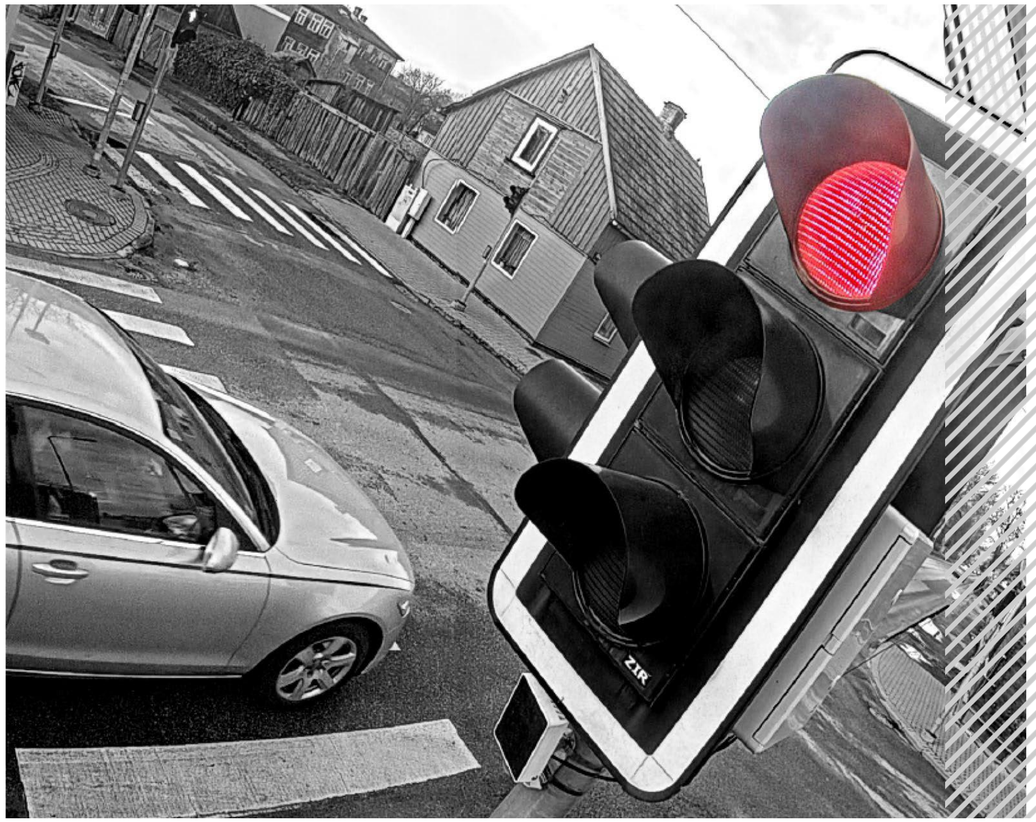
Red light enforcement sample

Average 64 red light crossing daily events

Average 26 yellow light crossing daily events

Average 20 468 cars counted daily

Average 0.43% from all drivers commit «offenses»



Areas of interest

Urban areas with road safety problems

Local limitations for infrastructure renovation that require retrofitting

High time consumption for construction designs and coordination

Imt

http://www.trafficmonitoringtech.com/