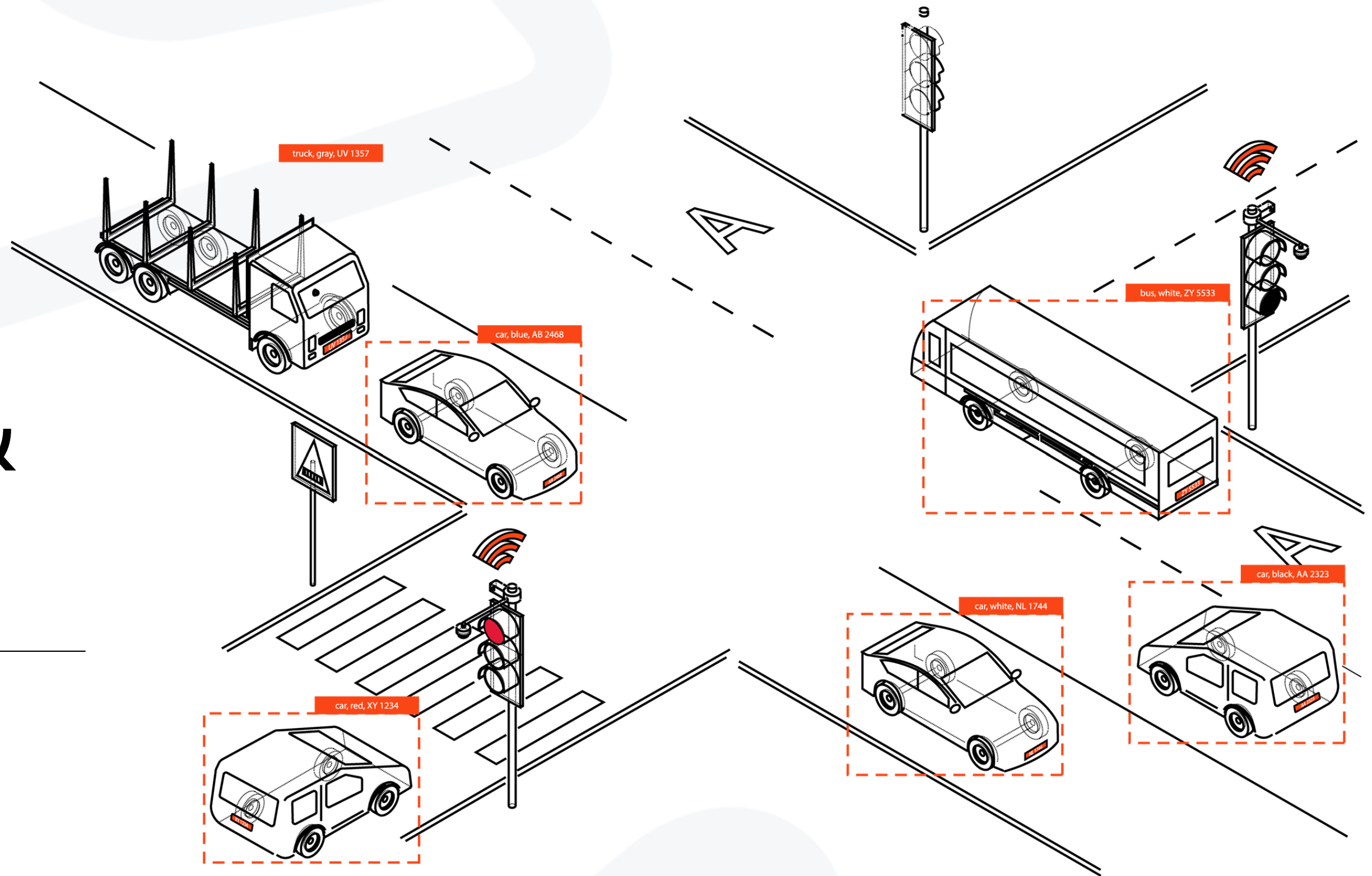




Traffic control & Enforcement

Based on multiple
EDGE computing devices



Use cases



Red light offences



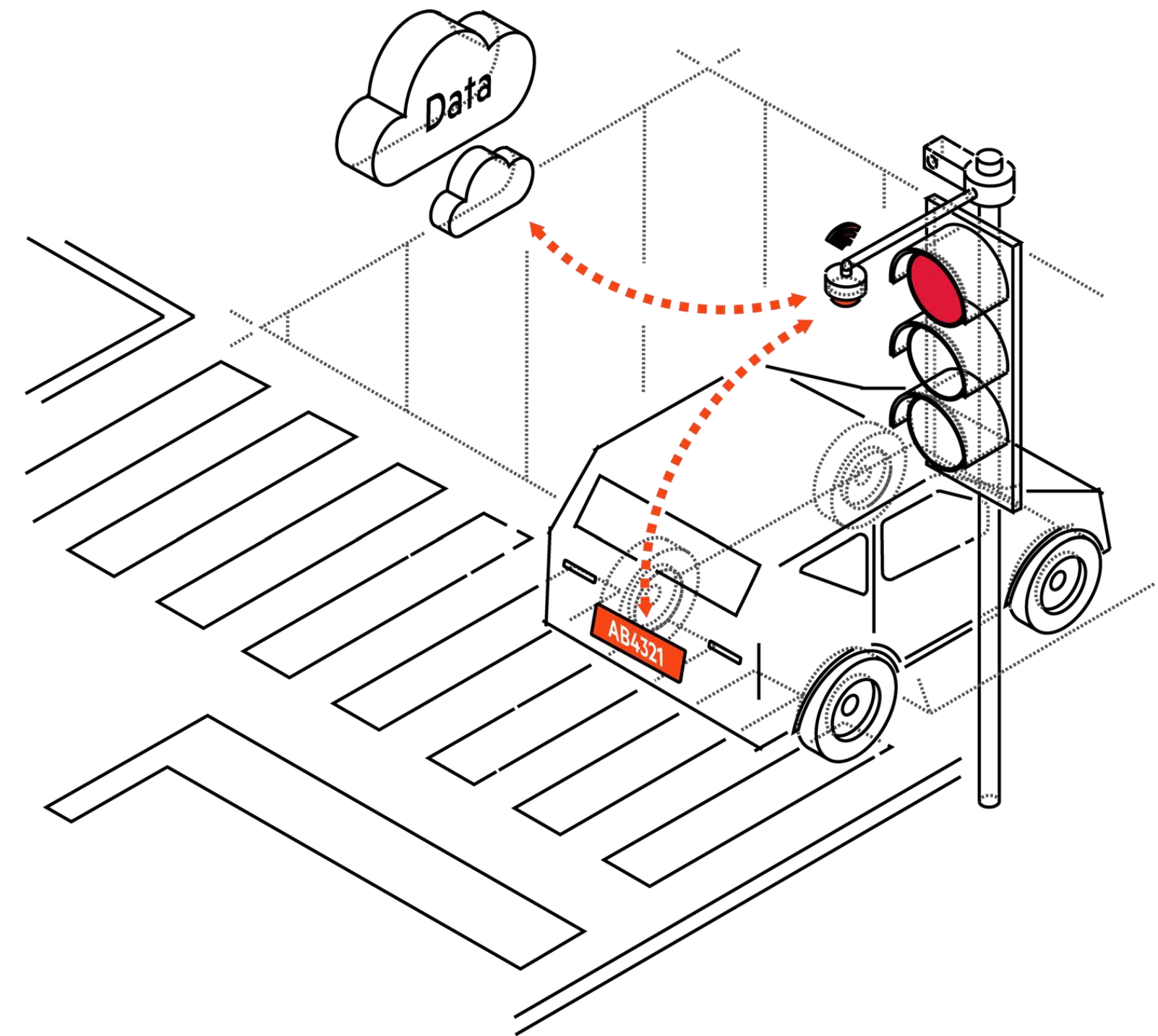
Intersection blocking

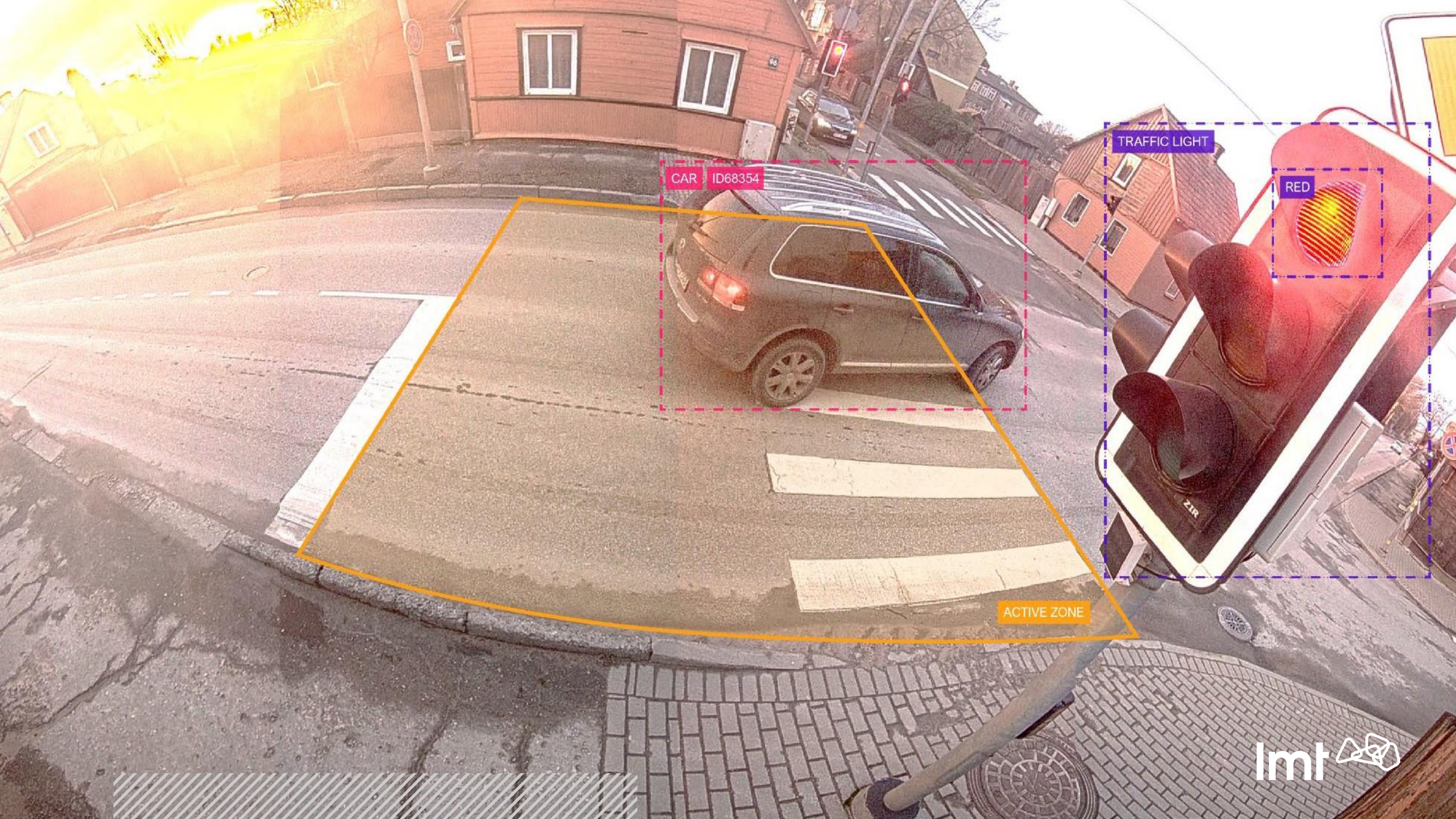


Public transportation lane offences



Traffic flow statistics





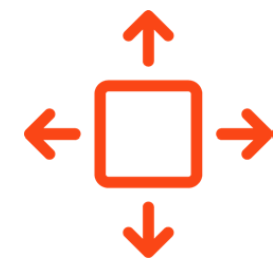
CAR ID68354

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



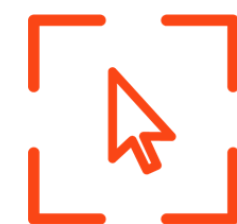
Trajectory and location awareness



Traffic signal detection



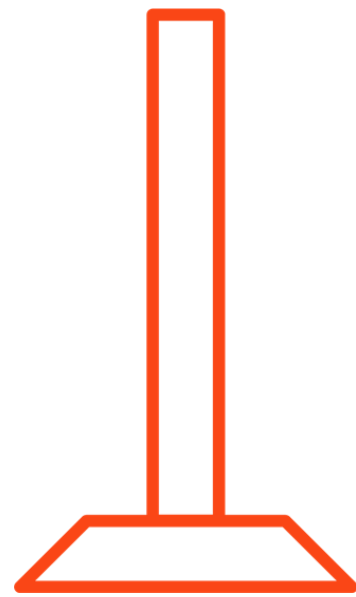
Predefined event logic algorithms



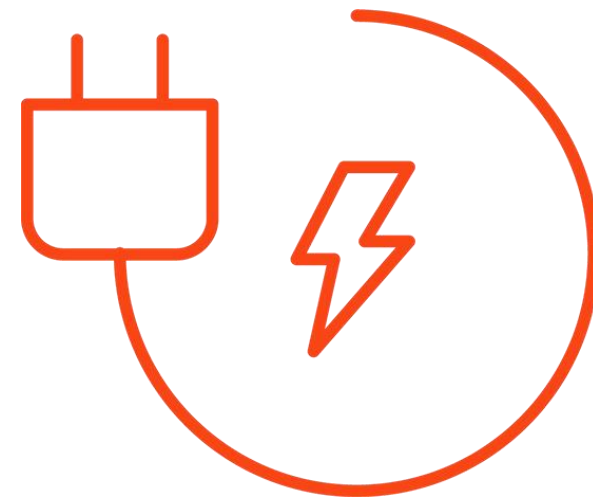
Web interface & API



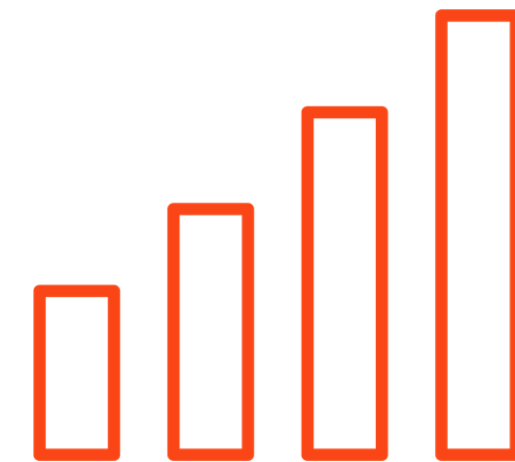
Installation requirements



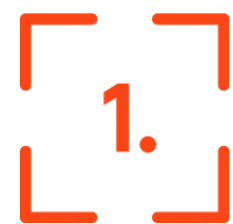
A fixed post



Electricity connection



LTE / 4G coverage



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



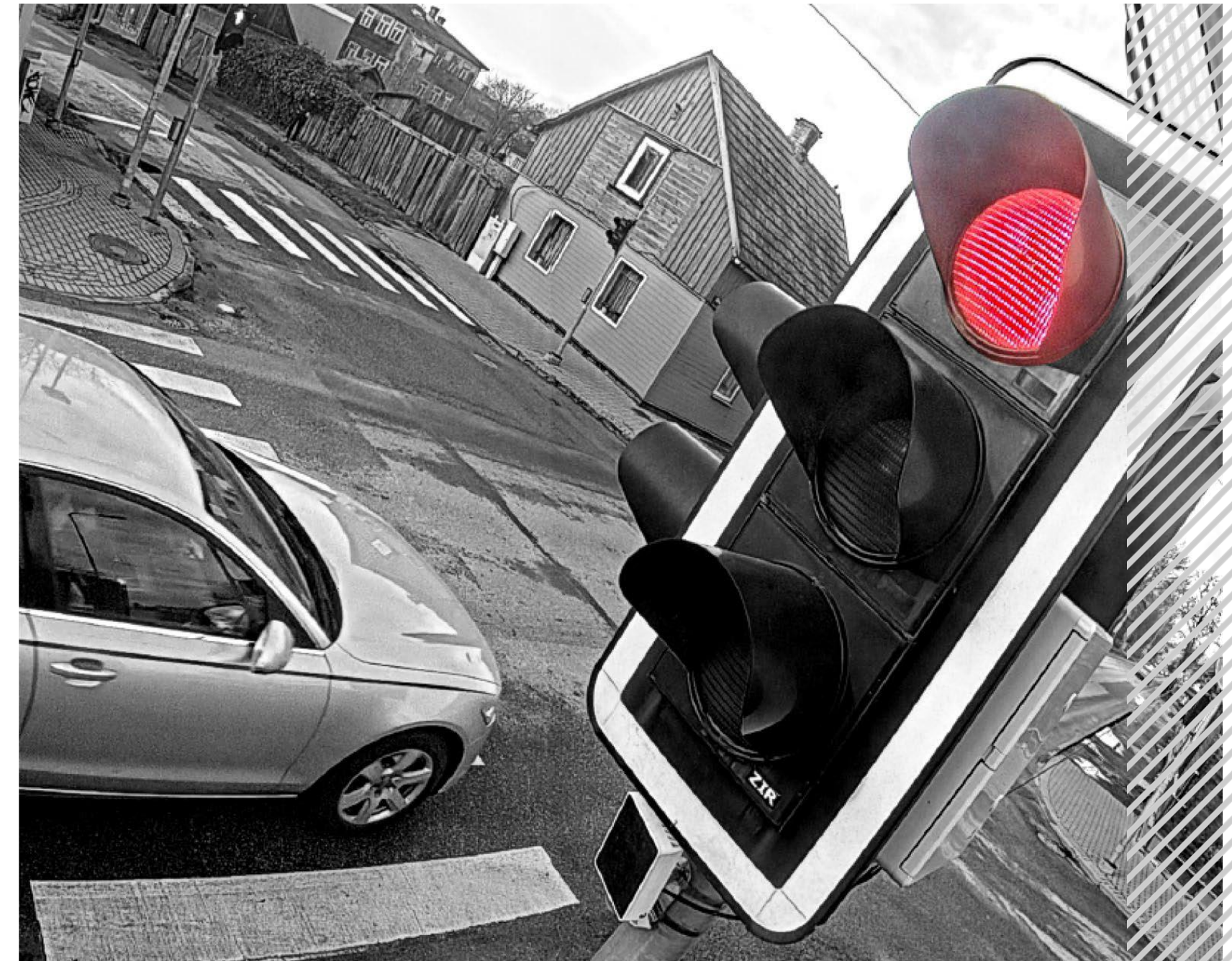
Average 26 yellow light crossing daily events



Average 20 468 cars counted daily



Average 0.43% from all drivers commit «offenses»



Areas of interest



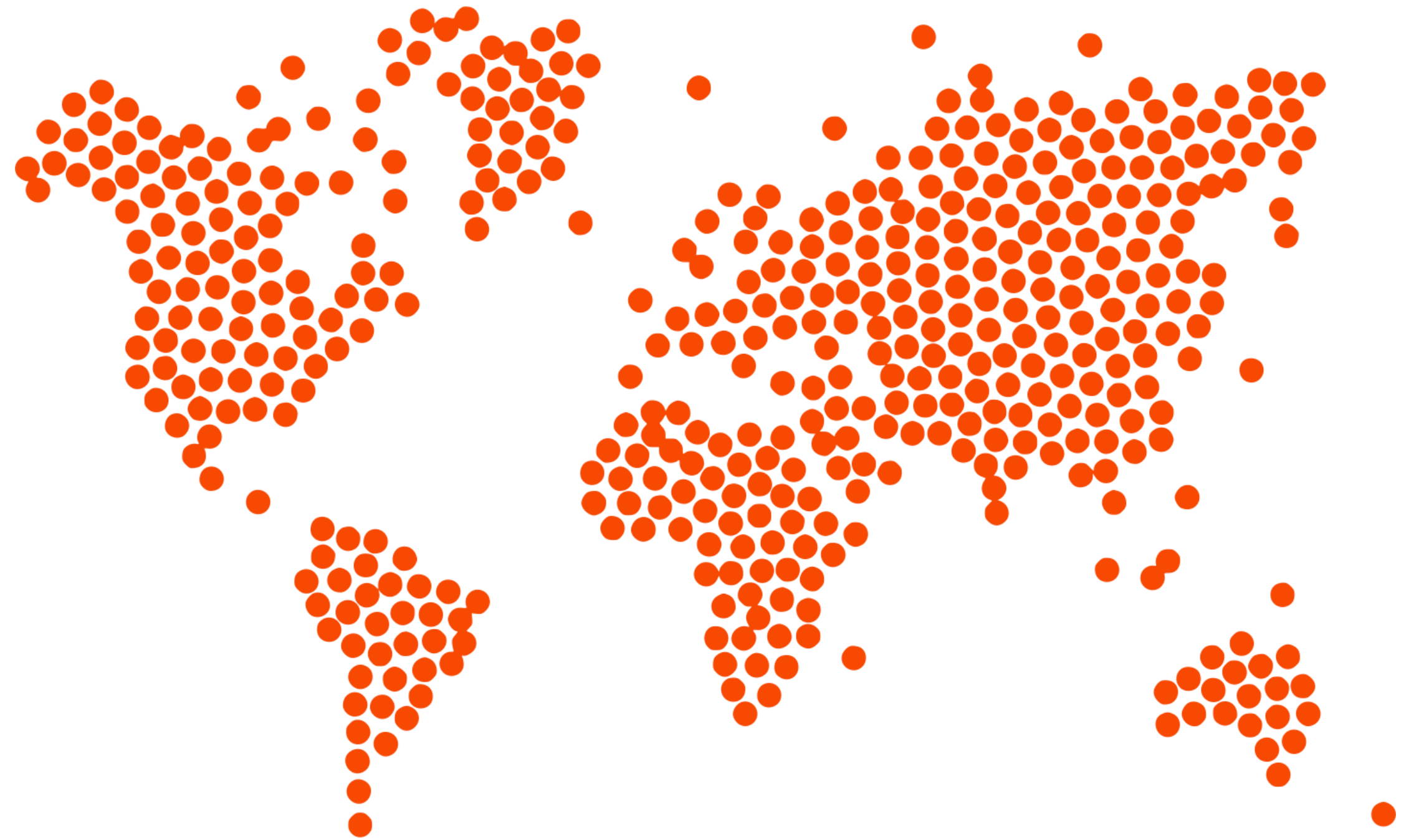
Urban areas with road safety problems



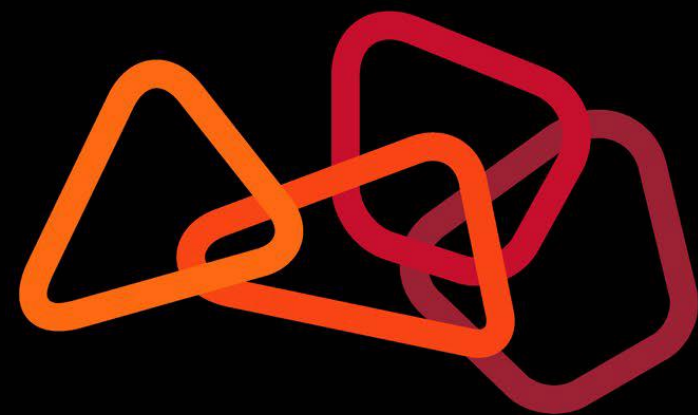
Local limitations for infrastructure renovation that require retrofitting



High time consumption for construction designs and coordination



Imt



<http://www.trafficmonitoringtech.com/>

