

Predictive traffic management system by collecting and analyzing traffic flow data from drones.



MobiLysis develops a framework for collecting video data from traffic streams using swarms of drones. Then we process these videos to extract multimodal trajectory data. The data is used to detect traffic congestion issues and provide evidence-based solutions.



Yvelines, Limassol, Krakow



MobiLysis



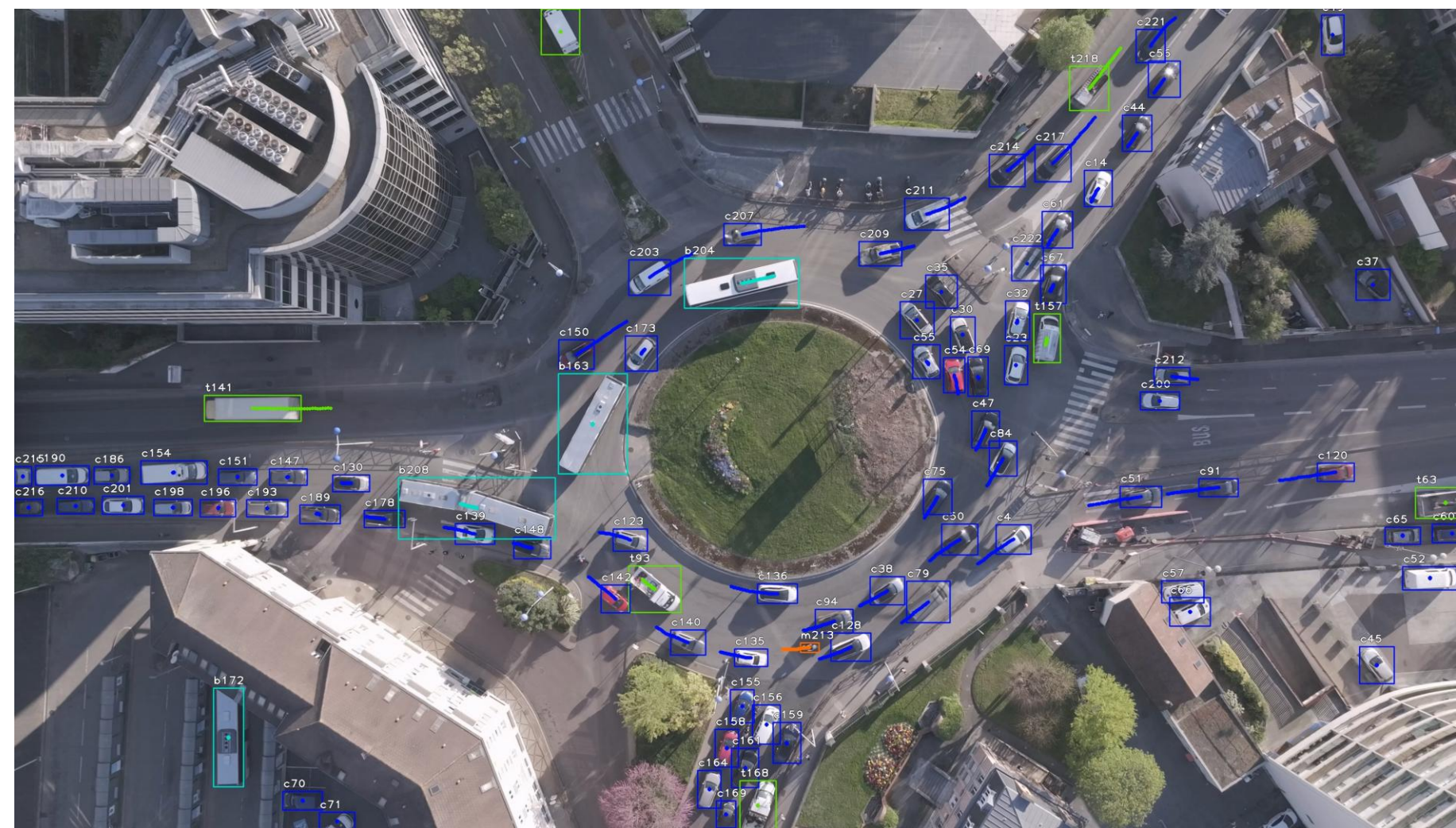
info@mobilysis.ch



Data Requirements

- Aerial video footage collected by a swarm of drones.

Detection of vehicles in Yvelines

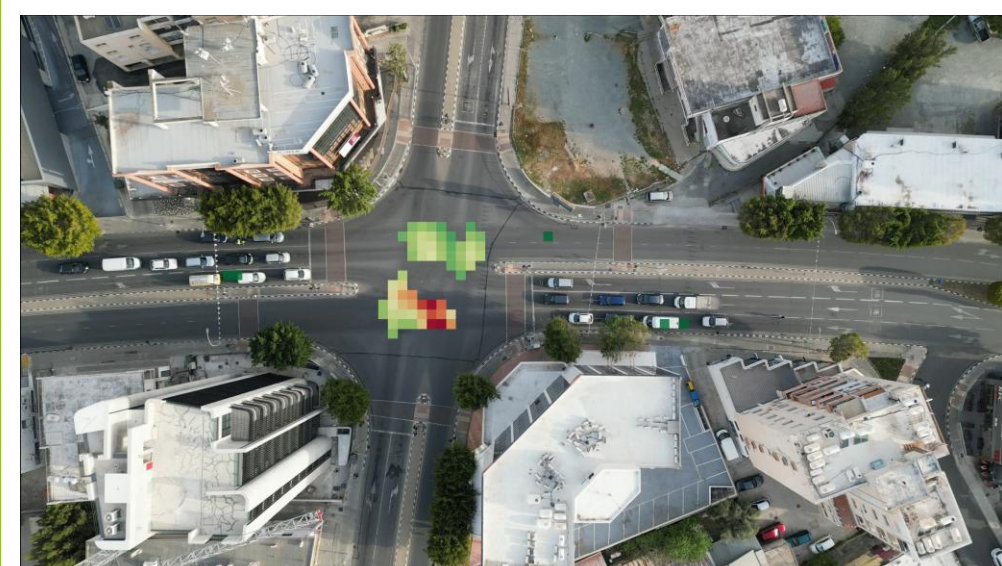


Decisions

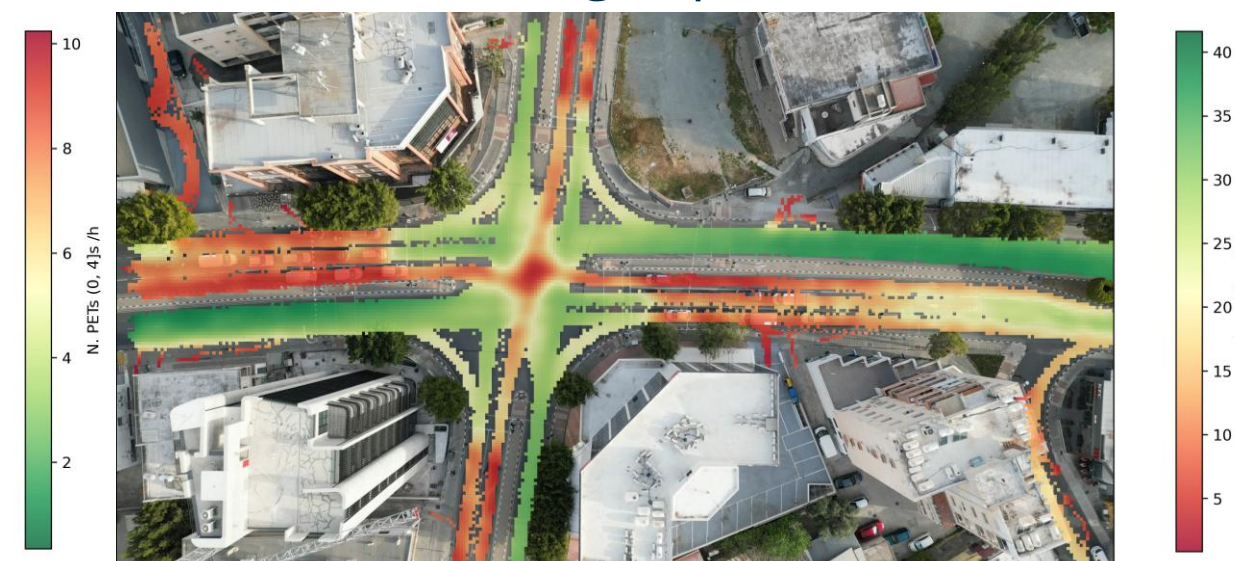
- Multimodal vehicle trajectories to support traffic flow and traffic safety analyses.
- Provides insights to mobility related problems

Traffic and safety analysis in Limassol

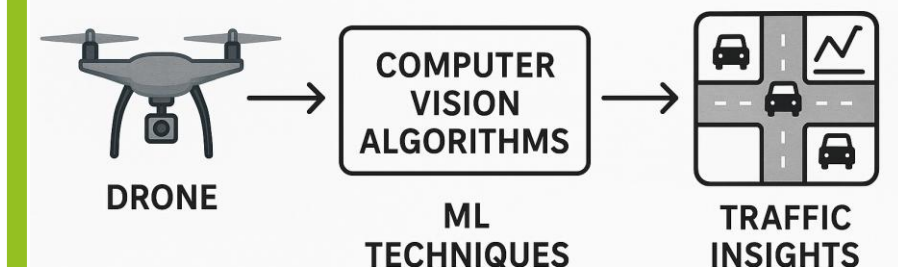
Potential collision points



Average speed



Methods



Scalability

- Vehicle trajectory extraction is close to real time.
- Pedestrian and soft mode trajectory extraction is 4 times slower... but keeps getting faster.



Co-funded by
the European Union