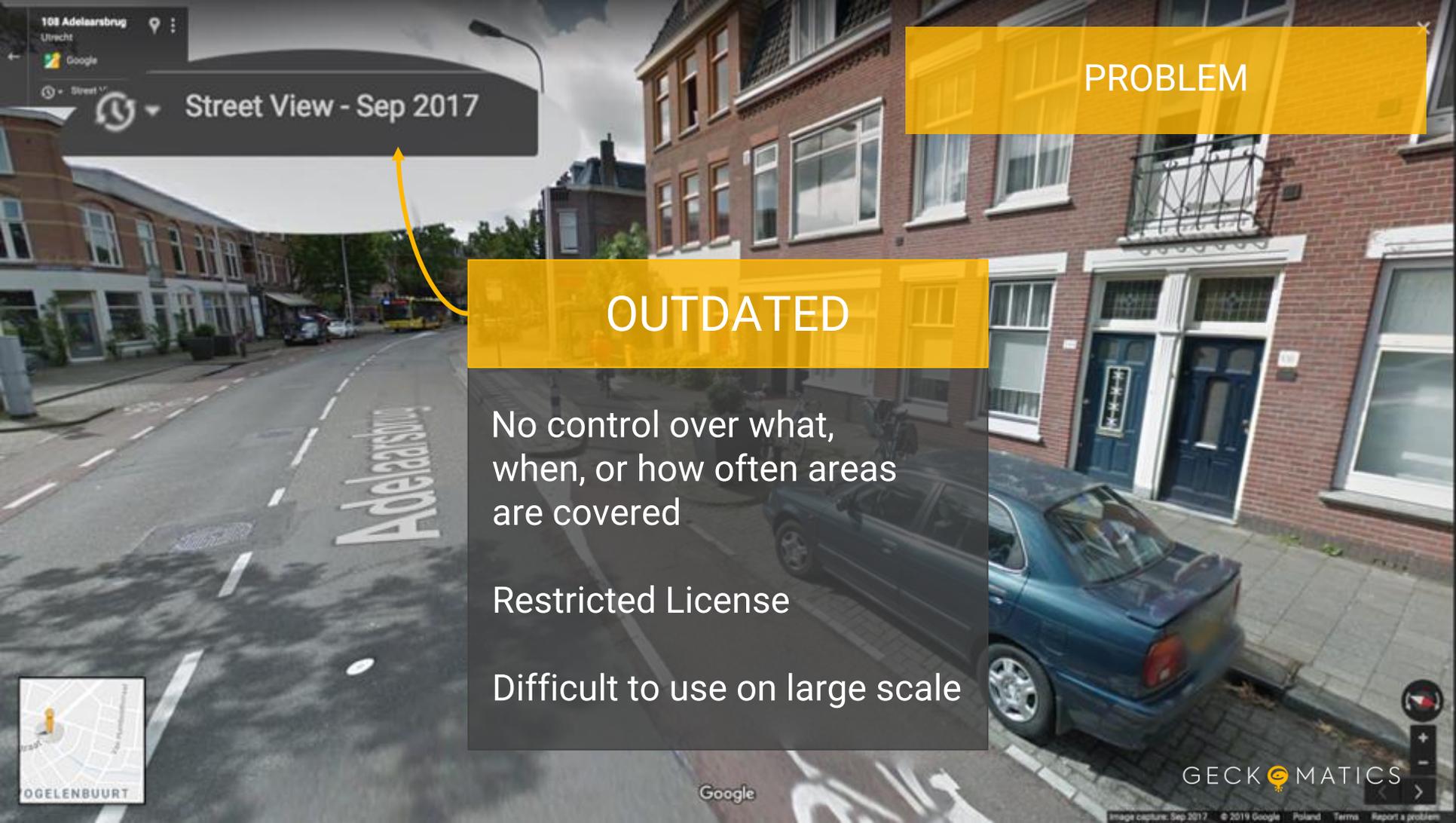


GECK  MATICS

ai powered mobile mapping



108 Adelearsbrug
Utrecht

Street View - Sep 2017

PROBLEM

OUTDATED

No control over what, when, or how often areas are covered

Restricted License

Difficult to use on large scale



Google

GECKMATIC

CURRENT SOLUTION

EXPENSIVE

COMPLICATED



MEET GECKOMATICS



1 Drive
and record



2 AI in the
cloud



3 Analyze
geodata



DRIVE AND RECORD

Easy to use, scalable system

WYSIWYM: What You See Is What You Map

You drive to map: lower total cost

GDPR compliant





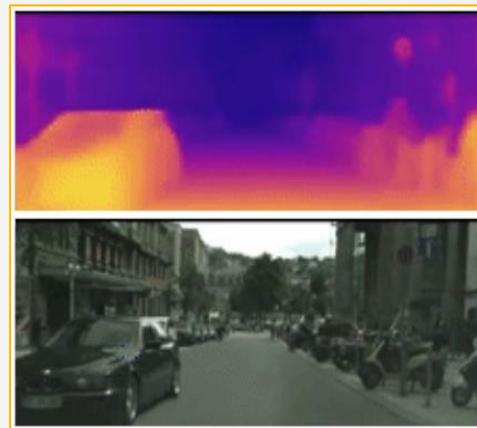
STATE OF THE ART AI



Object Segmentation
& Detection



Anonymization



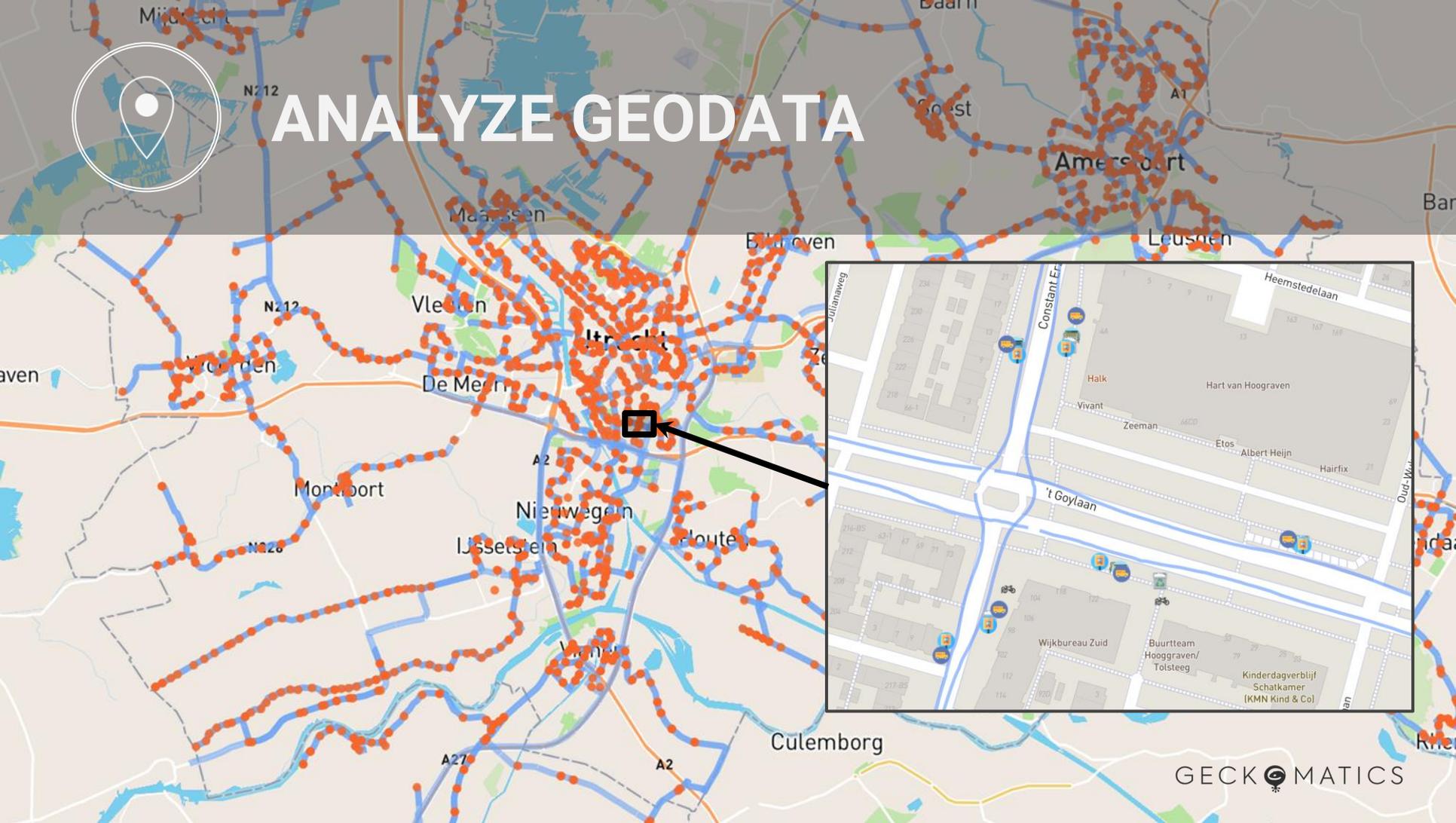
Depth Estimation



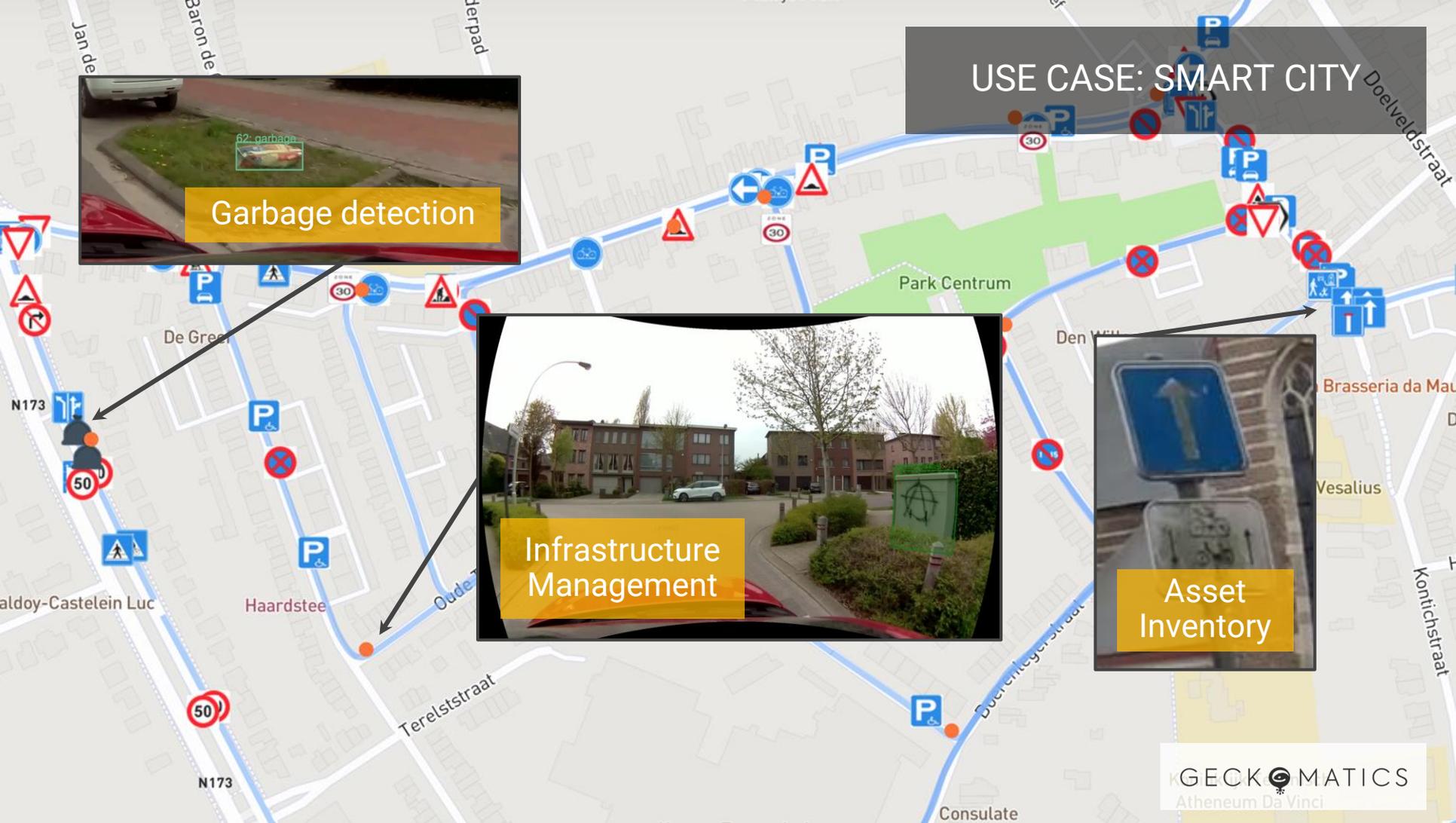
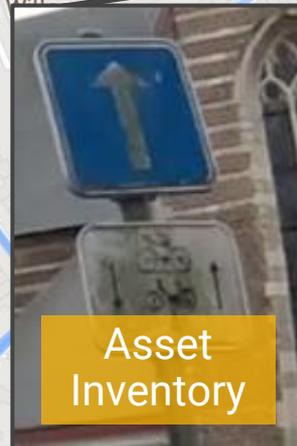
ladder



ANALYZE GEODATA

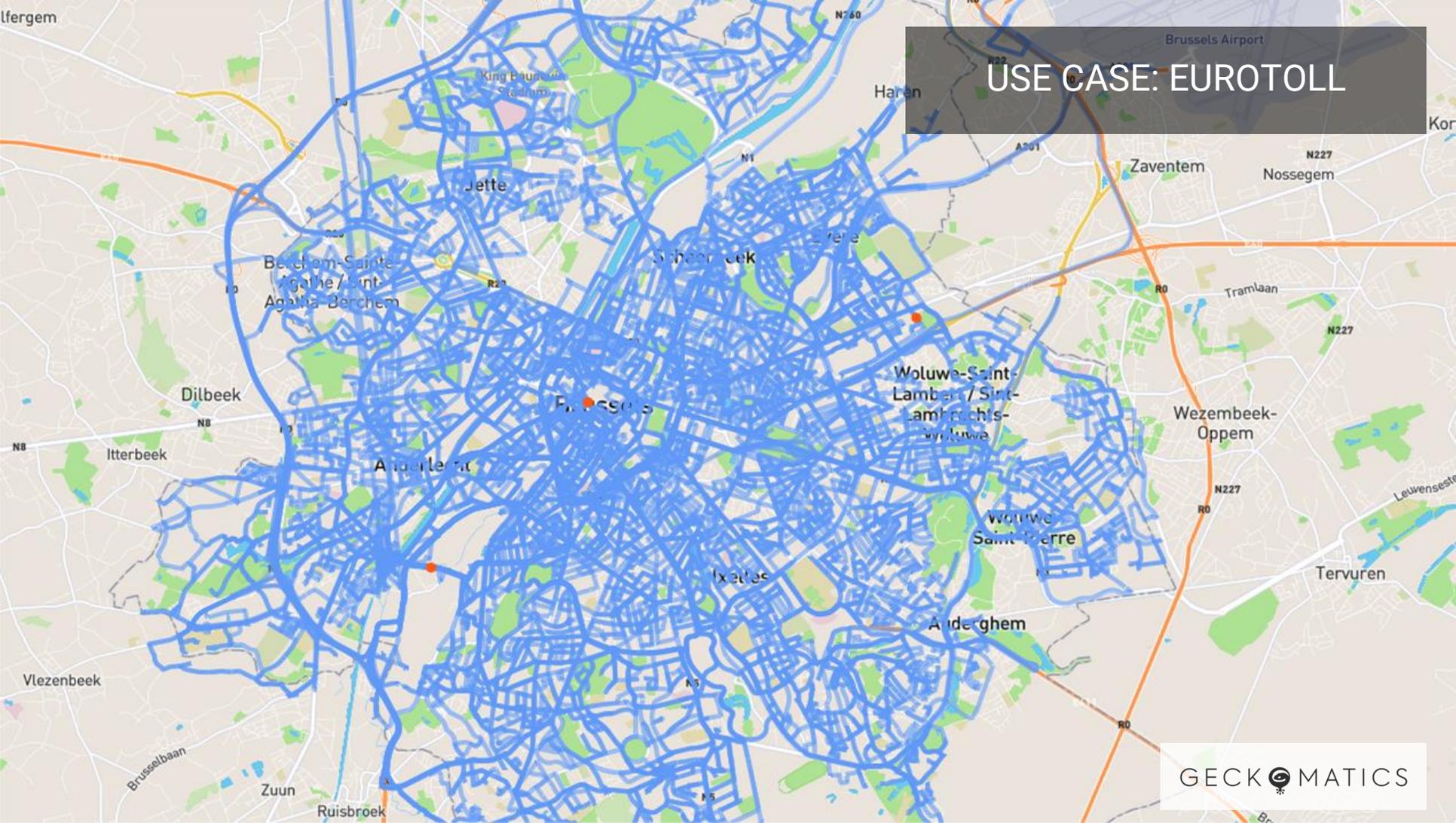


USE CASE: SMART CITY



Ifergem

USE CASE: EUROTOLL



USE CASE: PORTS

Objects

POG LAND POG WATER GARBAGE MISCELLANEOUS OBJECT



Asset Management

SAAS PRICING MODEL



Price per km
driven



Camera



Web
application

TEAM



Bert



Joren



Karina



Kuba



Abhyuday

PROJECTS



Port
infrastructure
mapping

Smart
City

AWARDS & RECOGNITION





TECHNICAL OVERVIEW

GECKO CAMERA 1.0



- ✓ <2m GNSS accuracy
- ✓ plug n' play & cloud sync
- ✓ IMU ("orientation") sensors



- ✗ >10m GNSS accuracy
- ✗ struggle with SD cards
- ✗ no orientation information

GECKO CAMERA 2.0



- ✓ <10cm GNSS accuracy
- ✓ Ultra HD quality

ANONYMIZATION



ANONYMIZATION



OBJECT DETECTION



ANONYMIZATION



OBJECT DETECTION



Traffic signs



Garbage



Lighting pole



Bus stop



Bike rack



Hydrant



Garbage bin



Bench



Tree





MASK DETECTION



OBJECT MAPPING



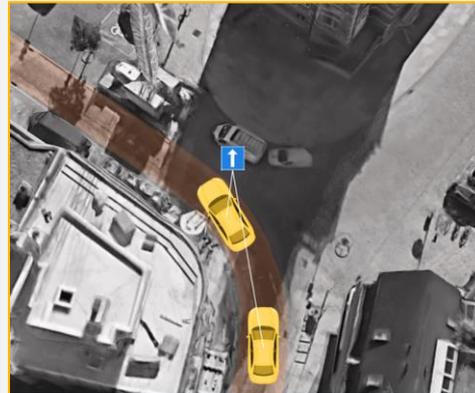
ANONYMIZATION



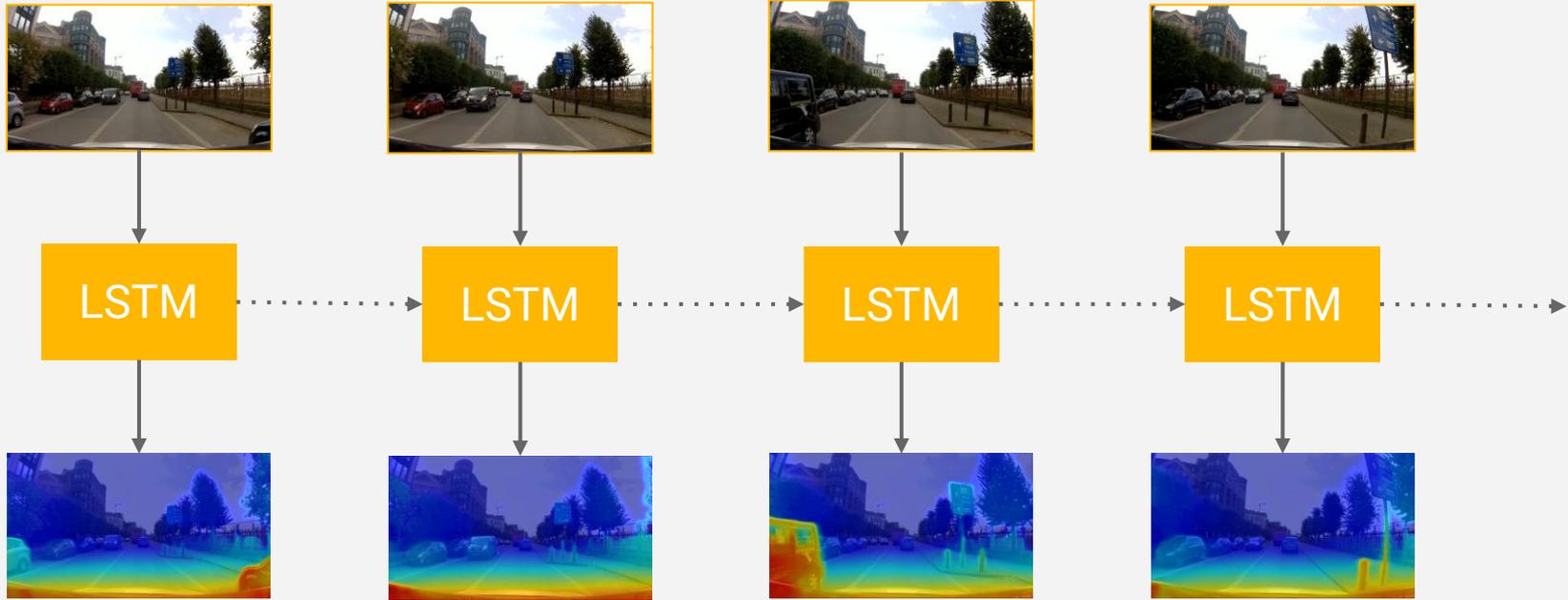
OBJECT DETECTION

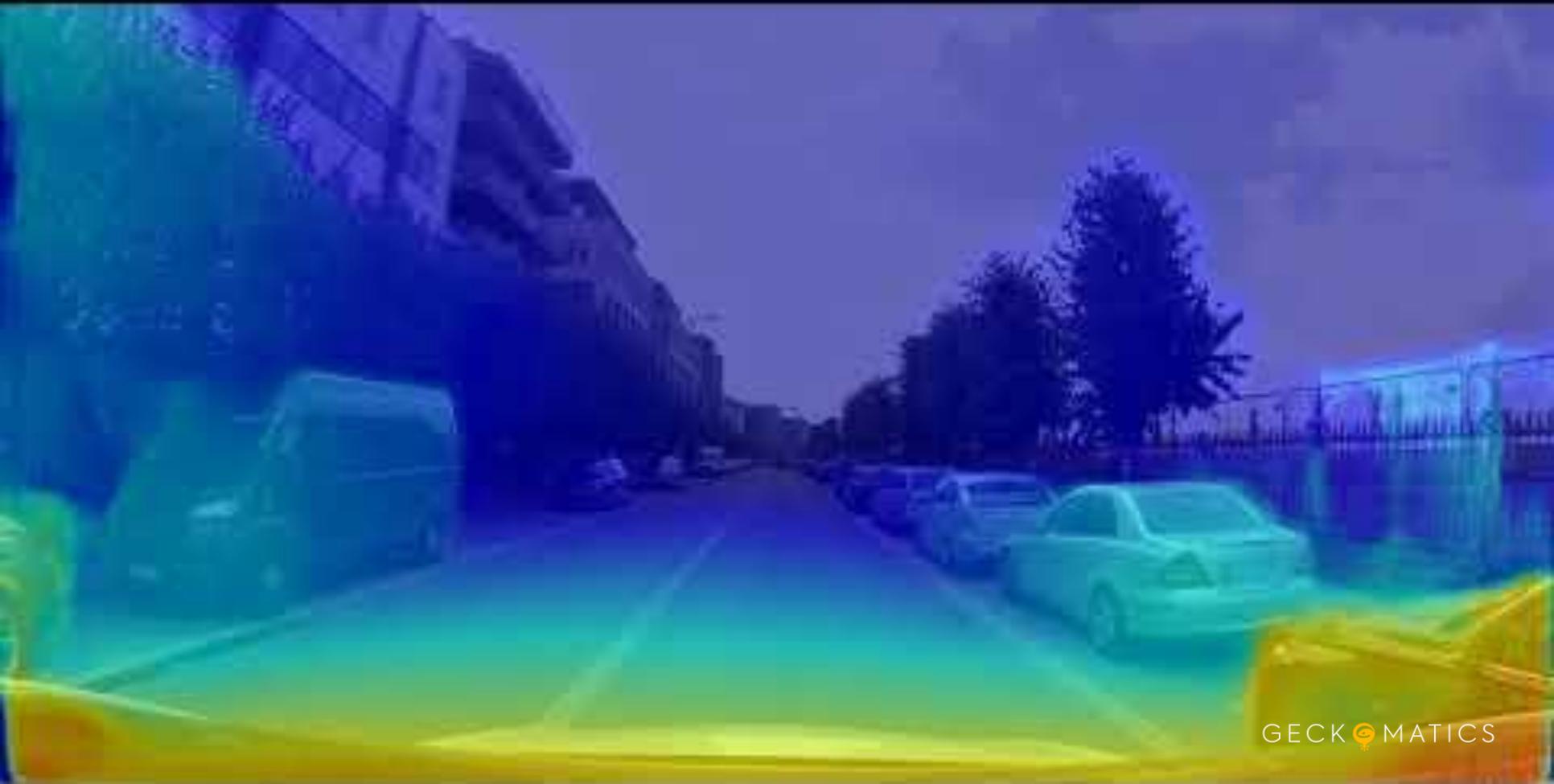


OBJECT MAPPING



DEPTH MAPPING AI





TRIANGULATION



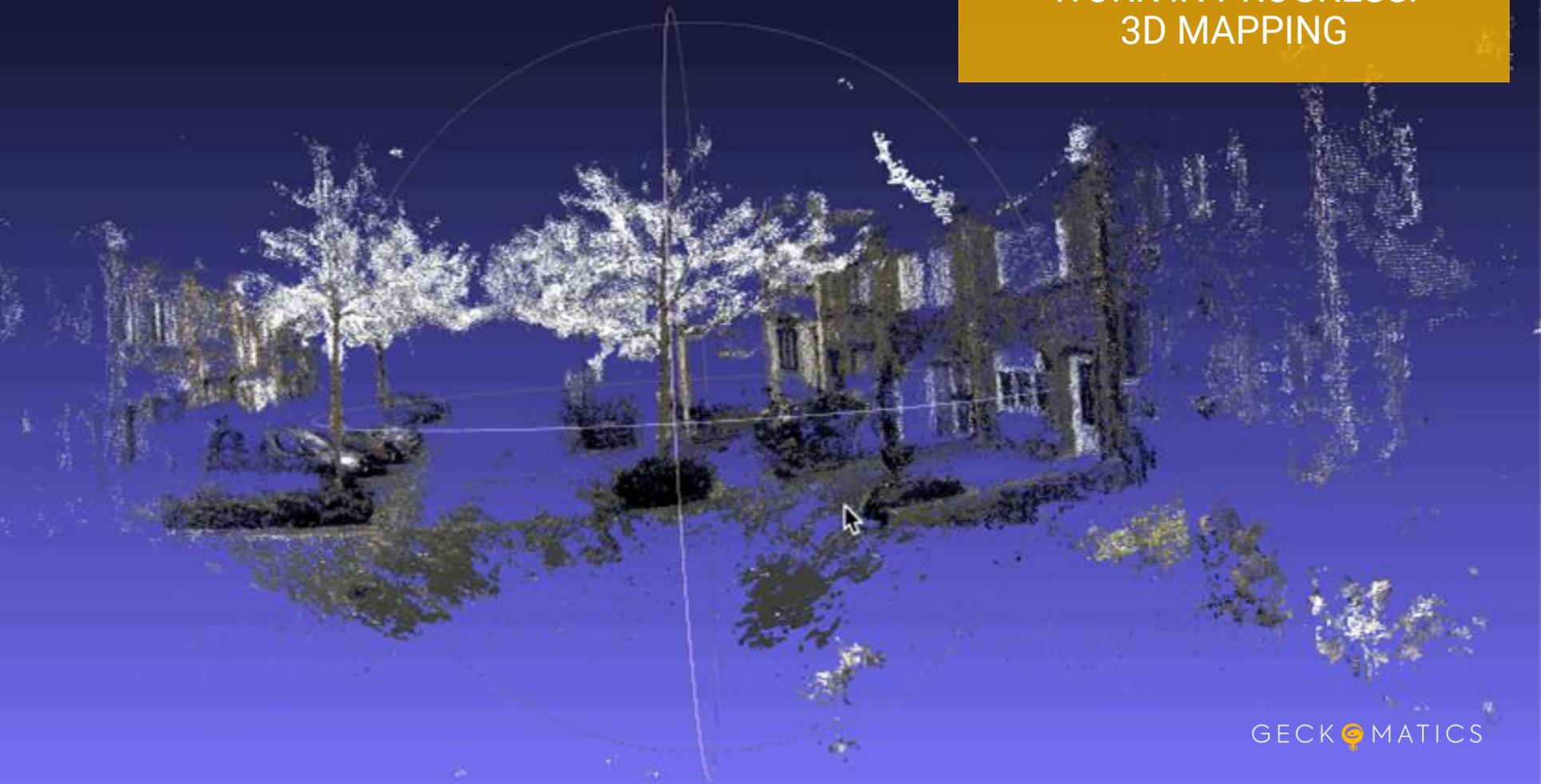
ACCURACY

GoPro

Geckocam 1.0

Geckocam 2.0

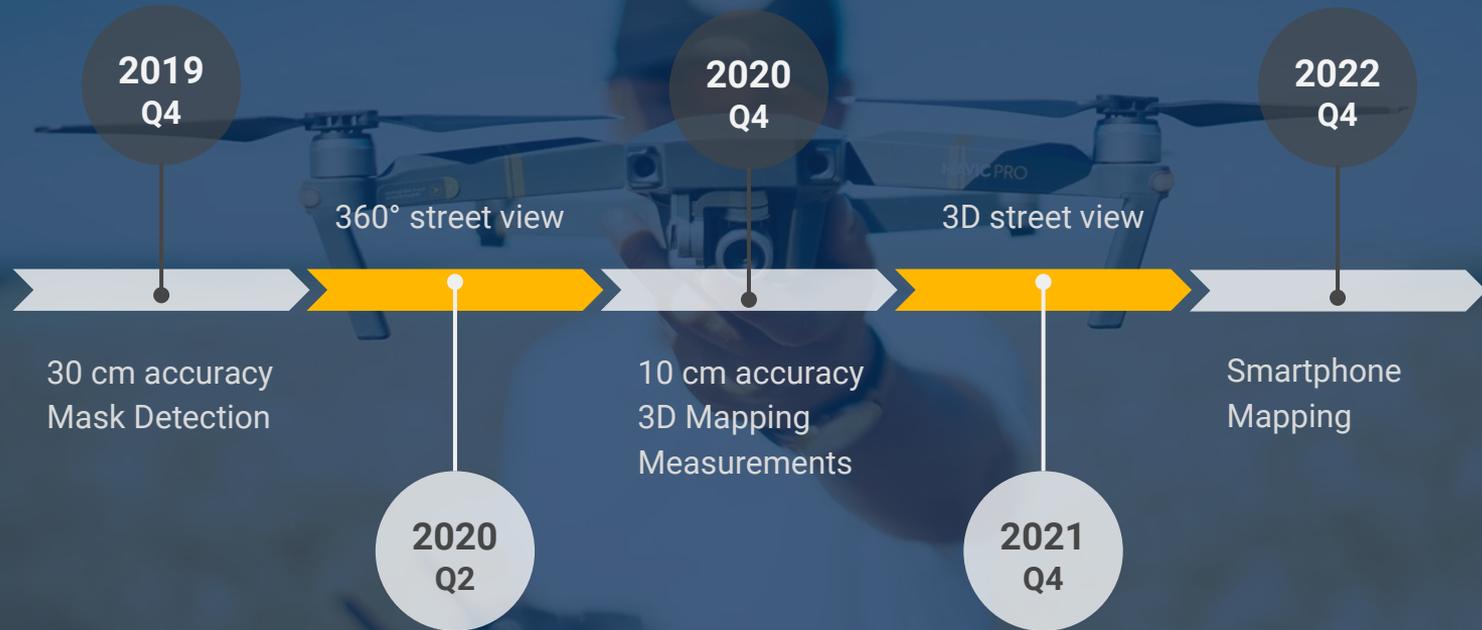
WORK IN PROGRESS: 3D MAPPING



WORK IN PROGRESS:
3D MAPPING



ROADMAP





DEMO

GECKOMATICS

Q&A TIME

FIND US AT

GECKOMATICS.COM | INFO@GECKOMATICS.COM