TomTom's global data and data services ready to support road safety innovations

Mile Milkovski

Partner Development Coordinator
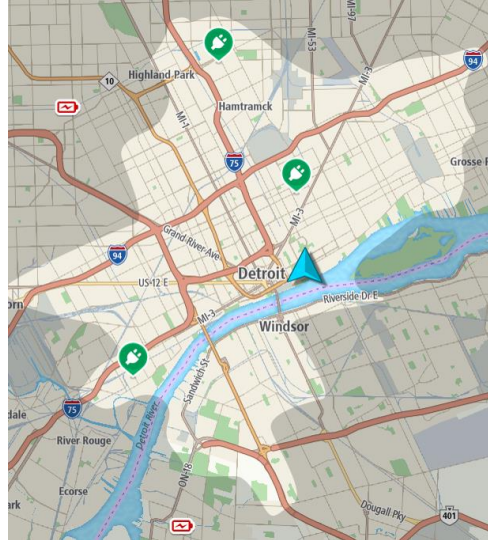
9th Meeting of Technical Committee on Road Safety

March 2022

TRANSPORT COMMUNITY

TomTom

Our vision

We believe in a future with safer roads, free of congestion and emissions.

Our mission

Our mission is to develop innovative location technologies that make this vision a reality.

Uniquely positioned to solve the world's mobility challenges

29 years of map-making expertise

Proprietary and innovative technologies

Making the lives of drivers easier

Put safety and security above all else

Independent

The leading independent location technology specialist

Highly accurate maps

Navigation software

Real-time traffic and services

Disrupting mobility since 1991

for shaping the future of mobility
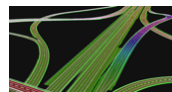

Founded

Launched first navigation software

Introduced the portable navigation device

Acquired HD Traffic technology

Acquired mapping company, Tele Atlas

Launched TomTom HD Map for AD

Acquired autonomous driving company, Autonomos

Launched AutoStream and MotionQ

| 1991 | 1996 | 2004 | 2006 | 2008 | 2015 | 2017 | 2018 |

139+ MILLION
points of interest

517+ MILLION
address points

600+ MILLION
connected data sources

3+ MILLION KM
driven by mobile
mapping vehicles
each year

Maps like no other

Navigable maps for

164
countries

35
territories

69+
million km of
navigable roads
globally

Making it happen around the world

Headquartered in Amsterdam,
with offices around the globe.

Shaping mobility with and for our customers

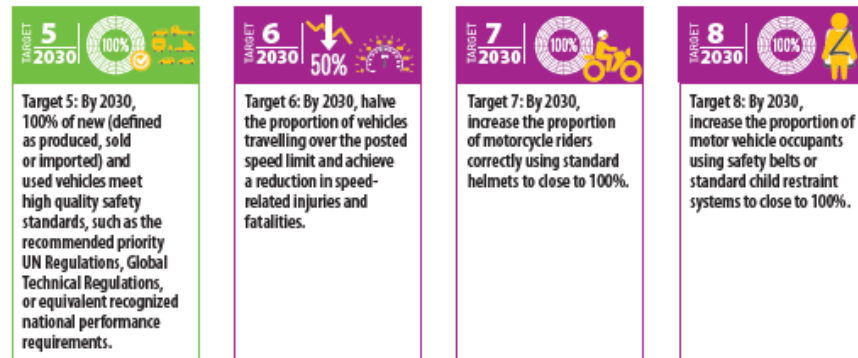## Automotive

Car manufacturers and Tier 1 vendors

Enterprise

Application developers, internet-of-things companies, governments, logistics services and fleet management experts, and cloud service providers

Consumer

Drivers

Target 1: By 2020, all countries establish a comprehensive multisectoral national road safety action plan with time-bound targets.

Target 2: By 2030, all countries accede to one or more of the core road safety-related UN legal instruments.

Target 3: By 2030, all new roads achieve technical standards for all road users that take into account road safety, or meet a three star rating or better.

Target 4: By 2030, more than 75% of travel on existing roads is on roads that meet technical standards for all road users that take into account road safety.

Target 5: By 2030, 100% of new (defined as produced, sold or imported) and used vehicles meet high quality safety standards, such as the recommended priority UN Regulations, Global Technical Regulations, or equivalent recognized national performance requirements.

Target 6: By 2030, halve the proportion of vehicles travelling over the posted speed limit and achieve a reduction in speed-related injuries and fatalities.

Target 7: By 2030, increase the proportion of motorcycle riders correctly using standard helmets to close to 100%.

Target 8: By 2030, increase the proportion of motor vehicle occupants using safety belts or standard child restraint systems to close to 100%.

Target 9: By 2030, halve the number of road traffic injuries and fatalities related to drivers using alcohol, and/or achieve a reduction in those related to other psychoactive substances.

Target 10: By 2030, all countries have national laws to restrict or prohibit the use of mobile phones while driving.

Target 11: By 2030, all countries to enact regulation for driving time and rest periods for professional drivers, and/or accede to international/regional regulation in this area.

Target 12: By 2030, all countries establish and achieve national targets in order to minimize the time interval between road traffic crash and the provision of first professional emergency care.

- PILLAR 1: Road safety management
- PILLAR 2: Safer roads and mobility
- PILLAR 3: Safe vehicles
- PILLAR 4: Safe road users
- PILLAR 5: Post-crash response
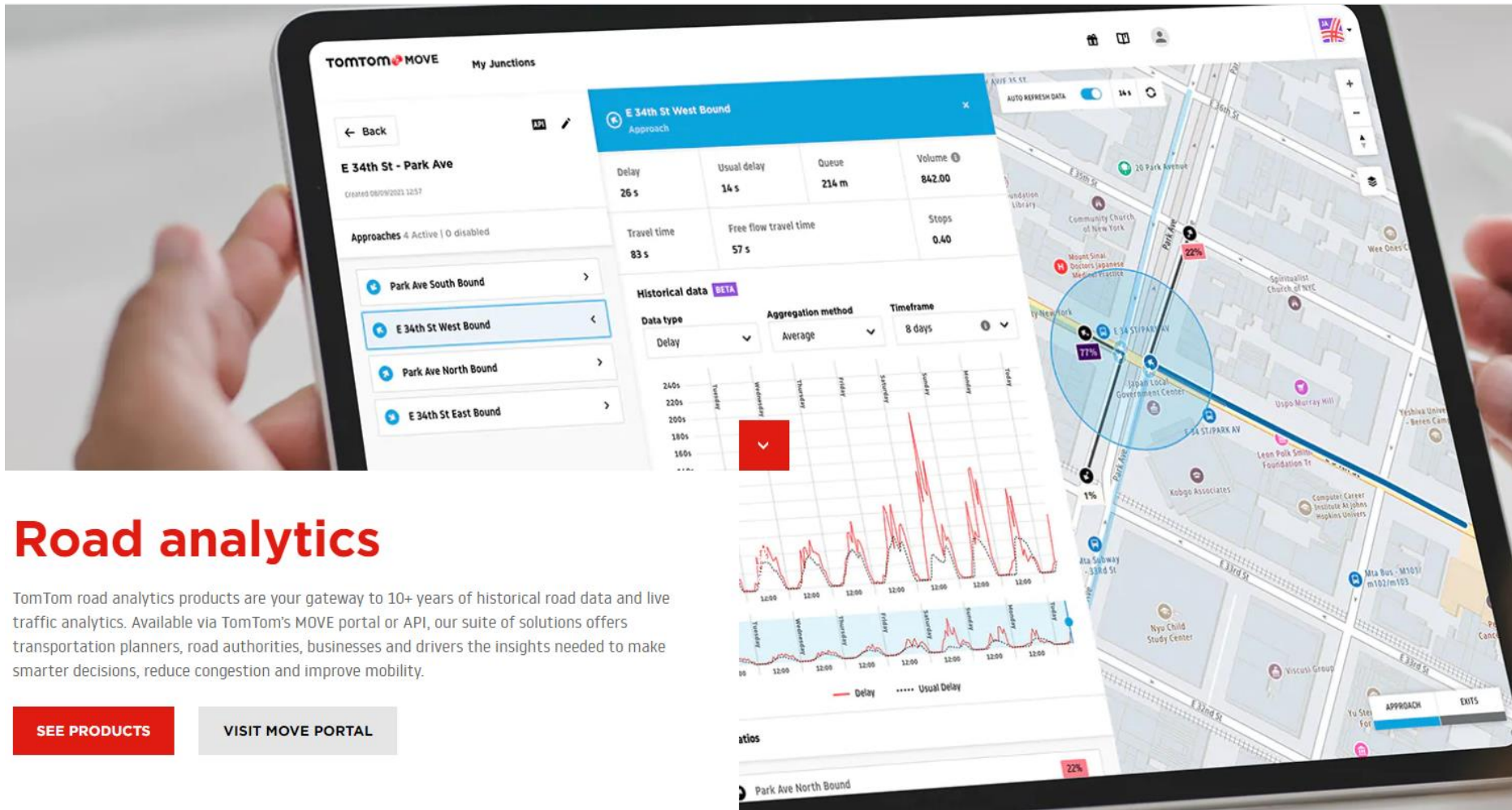
DECADE OF ACTION FOR
ROAD SAFETY

2021 – 2030

World Health Organization

iRAP **PARTNERSHIPS FOR 2030 IMPACT**

iRAP's Plan for the 2nd Decade of Action for Road Safety 2021-2030

FOR A WORLD FREE OF HIGH-RISK ROADS

Road analytics

TomTom road analytics products are your gateway to 10+ years of historical road data and live traffic analytics. Available via TomTom's MOVE portal or API, our suite of solutions offers transportation planners, road authorities, businesses and drivers the insights needed to make smarter decisions, reduce congestion and improve mobility.

SEE PRODUCTS   VISIT MOVE PORTAL

75% Roads Travelled Scope for Serbia

THE SUM OF KILOMETERS OF THE ROADS THAT CONCENTRATE 75% OF TRAVELS IS: 5.050 KM

THE PERCENTAGE OF ROADS NEEDED TO BE UPGRADE TO REACH THE ROAD SAFETY RATING TARGETS OF 75% IS: 8.6%

MOBILE MAPPING

#TOMTOMCAR

The Ladybug 5 collects
3.8 billion pixels per km
that are used to validate real-world changes

Velodyne lidar collects
700,000 data points per second
delivering AD accuracy to within 2 cm

The combination of 2 DGPS antennas,
inertial sensors and the odometer ensure
highly accurate positioning

3+
MILLION KMS

**Driven by mobile mapping
vehicles each year**

internal computer processes
1 terabyte of data daily

TomTom

Mobile Mapping Why TomTom?

+ 20 years experience in collecting images and point cloud sensor data

Global Mobile Mapping fleet equipped with latest and greatest sensors/cameras

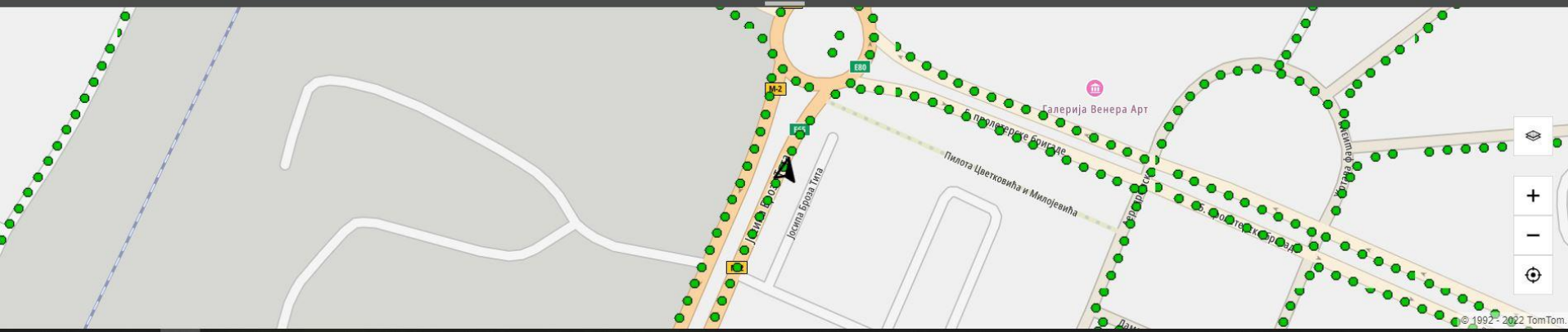Data coverage TOP 4 road classes

City coverage
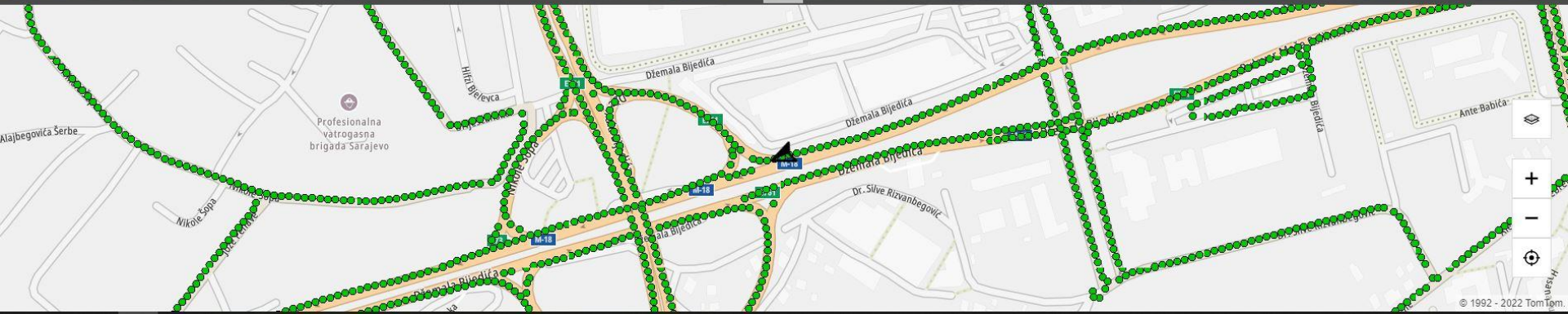
Local expert teams

Data Use Cases
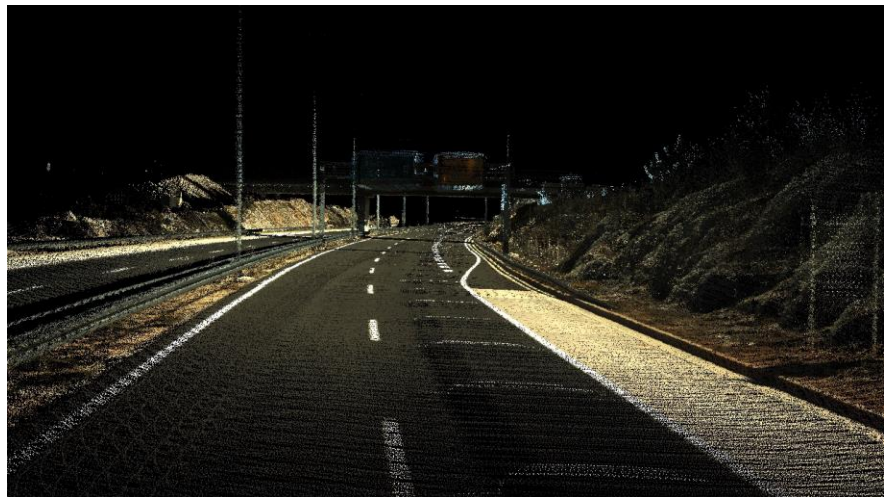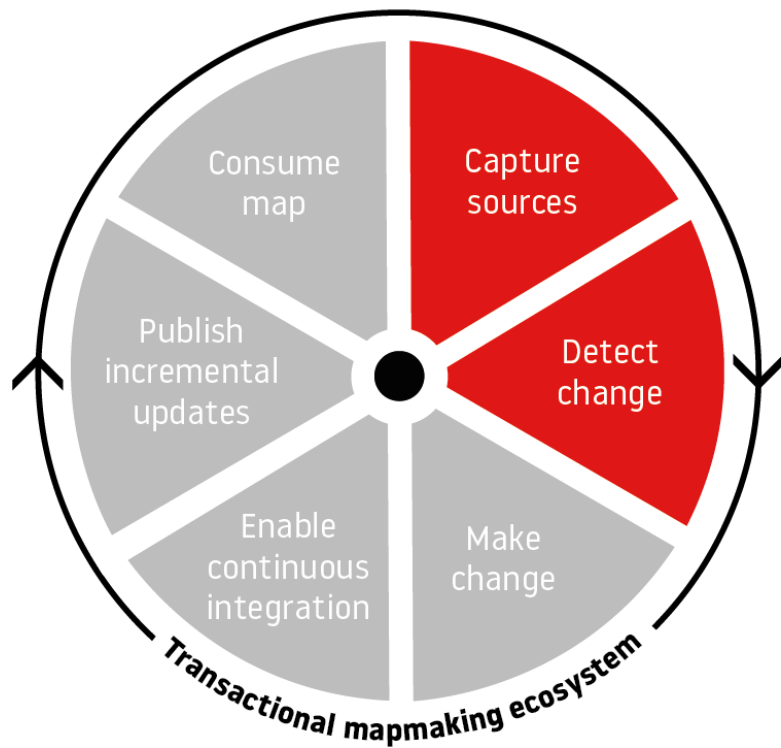
Data Use Cases

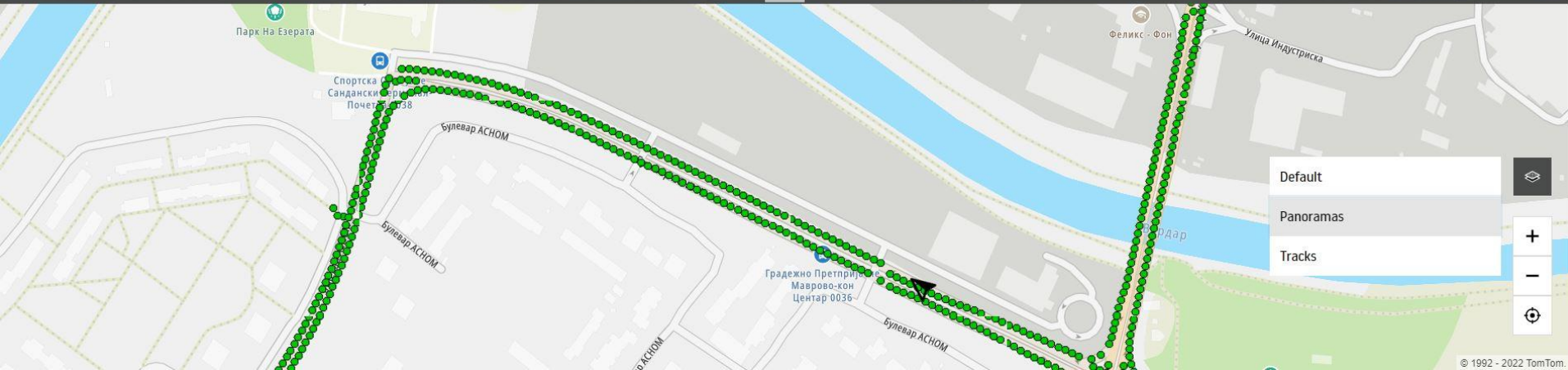Josipa Broza Tita
Josipa Broza Tita, Podgorica, 81101, MNE

40

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Coordinates: 42.4350754864388, 19.2749228119896
Session name: EL7S246_2021_04_27__08_41_16
Sequential number: 51

© 1992 - 2019 TomTom.

© 1992 - 2022 TomTom.

Data Use Cases

Data Use Cases

Data Use Cases

Data Use Cases

Rruga Unaza e Madhe
Rruga Unaza e Madhe, Tiranë, 1010, ALB

Date created: 2021-04-09 10:19:52
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Default

Panoramas

Tracks
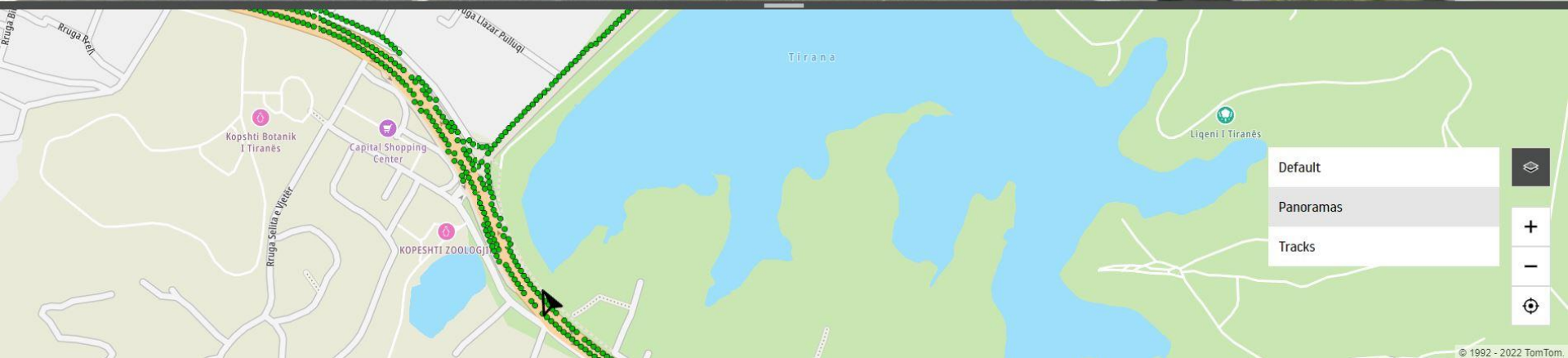
MaaS
What TomTom Provides?

Delivering access to rich global and local geographic information

High-definition feature-rich 360° panorama images and point cloud sensor data

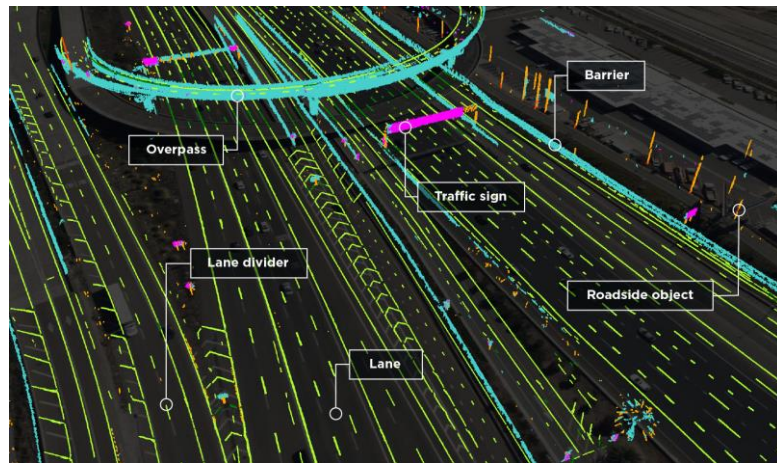MoMa Application Programming Interface (API)

Archive or on-demand data collection

iRAP accreditation

First Accredited Inspection System for LIDAR

Nov 17, 2021 | AiRAP, General, News

Anditi's Roadviewer is the 16th iRAP accredited inspection system and the first in the world that allows users to code Star Rating attributes based on 3D mobile LiDAR data.

RoadViewer uses existing data captured by TomTom as part of its global mobile mapping (MoMa) programme, gathering some 3 million kilometres of new data per year in over 60 countries.
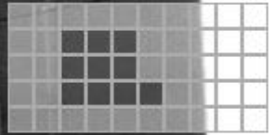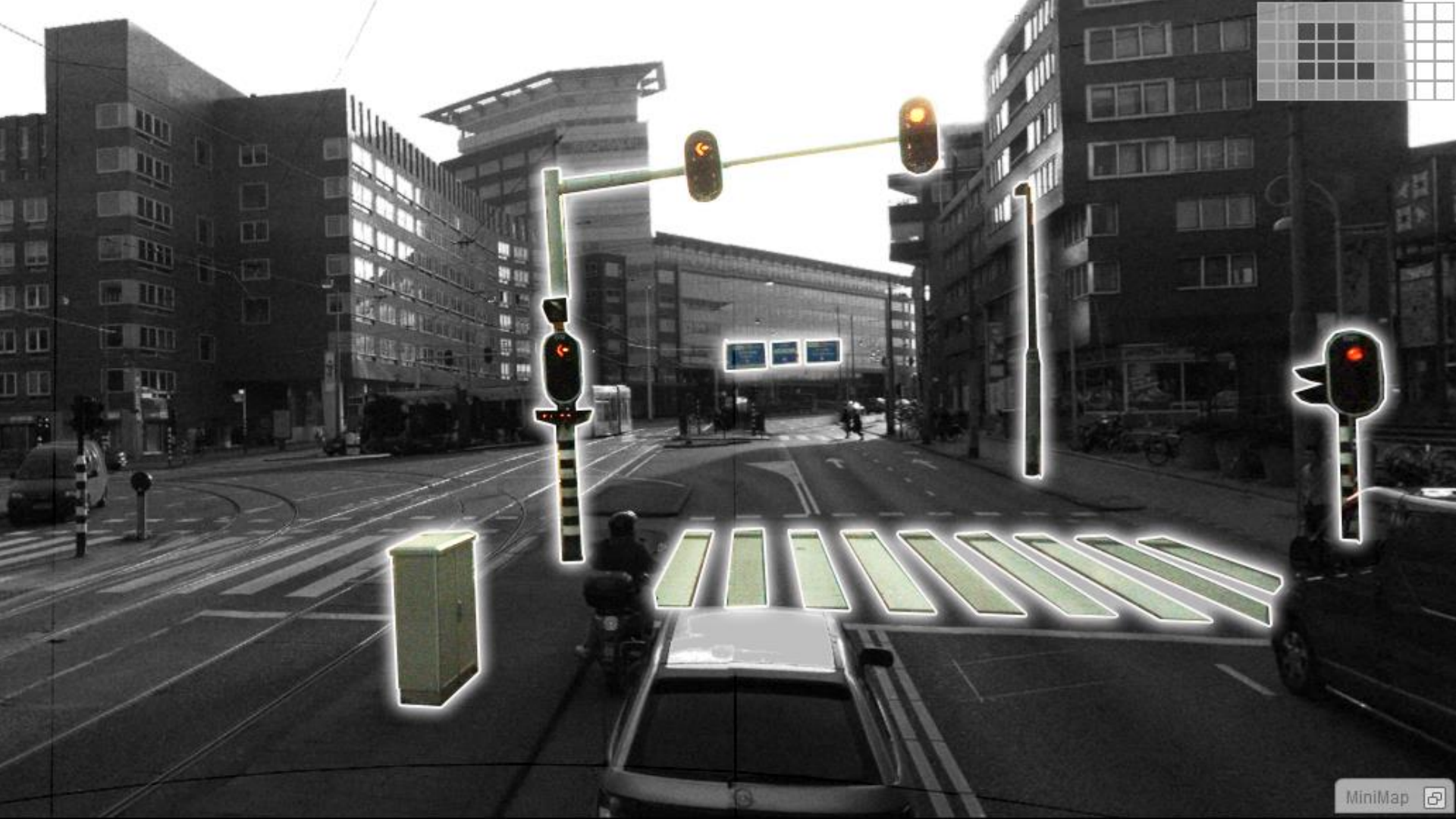
THANK YOU

Contact: bart.volckaert@tomtom.com

mile.milkovski@tomtom.com

TomTom

Feature extraction: examples

MoMa data coverage − Western Balkan