

A-to-Be

By **Brisa Group**

50 years ago...

Now Brisa Group's Infra-Tech, A-to-Be started as an internal division.

Family Tree

Alongside Via Verde Portugal, we have been pioneers in discovering new ways for tolling and mobility

End-to-end mobility solutions

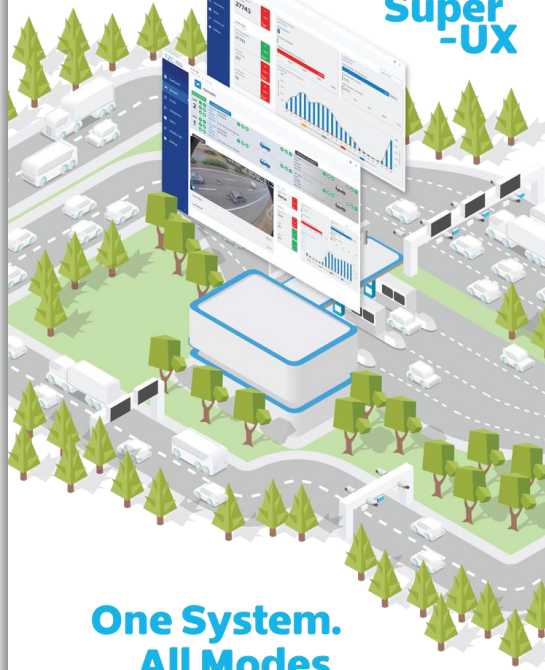
Advanced Roadside Mobility Connector

Cloud-ready

Cloud-hosted or on-premises: you choose.

Easy to use and eye-pleasing user interface

Super-UX



One System. All Modes.

Single platform across all tolling modes
Open Road | Manual | Self-service | Mobile | AET

Future-ready

Evolution of mobility is included



Tolling Backoffice

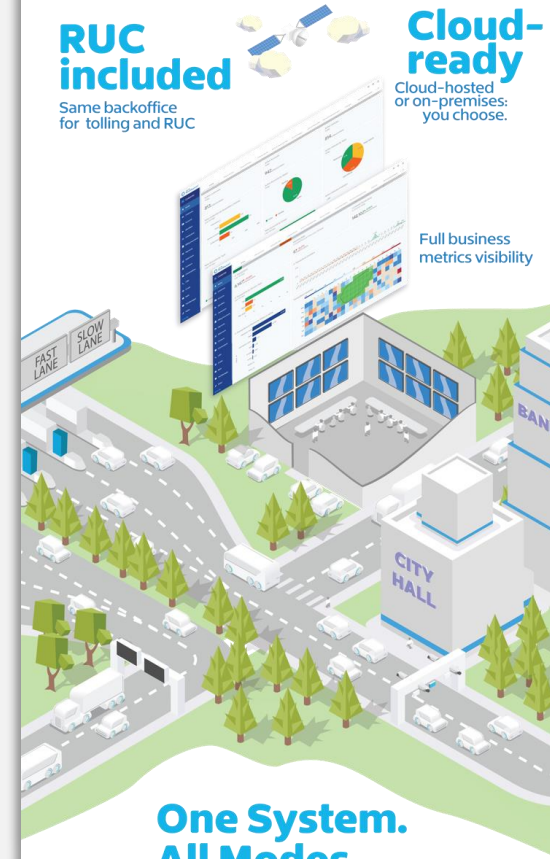
RUC included

Same backoffice for tolling and RUC

Cloud-ready

Cloud-hosted or on-premises: you choose.

Full business metrics visibility



One System. All Modes.

Same Backoffice platform for all tolling (and mobility) modes.

Modular Design

allows it to scale in any direction

Future-ready

Easy to keep updated with commercial, off-the-shelf modules



Traffic Management Information System

Single web-based platform across all road systems

Cloud-ready

Vendor Neutral

Agnostic to equipment vendors with plug'n'play design



Micro services

Modular and resilient, scalable to your needs

Efficient Operations

Smart user guidance and GDPR-compliant

Centralized

An entire infrastructure network managed from a single remote location



MOVYON

Autostrade per l'Italia Group

DIGITAL ENGINEERING FOR SMART AND SUSTAINABLE MOBILITY

We are an Italian company leader in development and integration of Intelligent Transport Systems Solutions and Centre of Excellence for Research and Innovation of Autostrade per l'Italia Group

300

highly skilled professionals

Active projects

in Europe, South America and Egypt

450+

Free Flow gantries and Stop&Go plazas in the world

460.000+

events managed/year by our Traffic Management Platform

4.300+

Infrastructures monitored with ARGO for ASPI



Traffic e Safety Management



Infrastructure Management



Tolling



Urban Mobility



Smart Roads

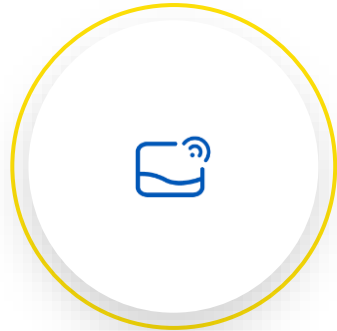


On Board Units

From tolling to mobility platform.

All mobility-related services, one payment system, one App.
Telepass is the integrated, constantly evolving platform that has made mobility simple and sustainable.
A story of innovation made in Italy, which has become a case study at Harvard Business School.

- 7.5+ million customers
- 9.5+ million OBUs
- 25+ services
- 17 countries within Dec 2023



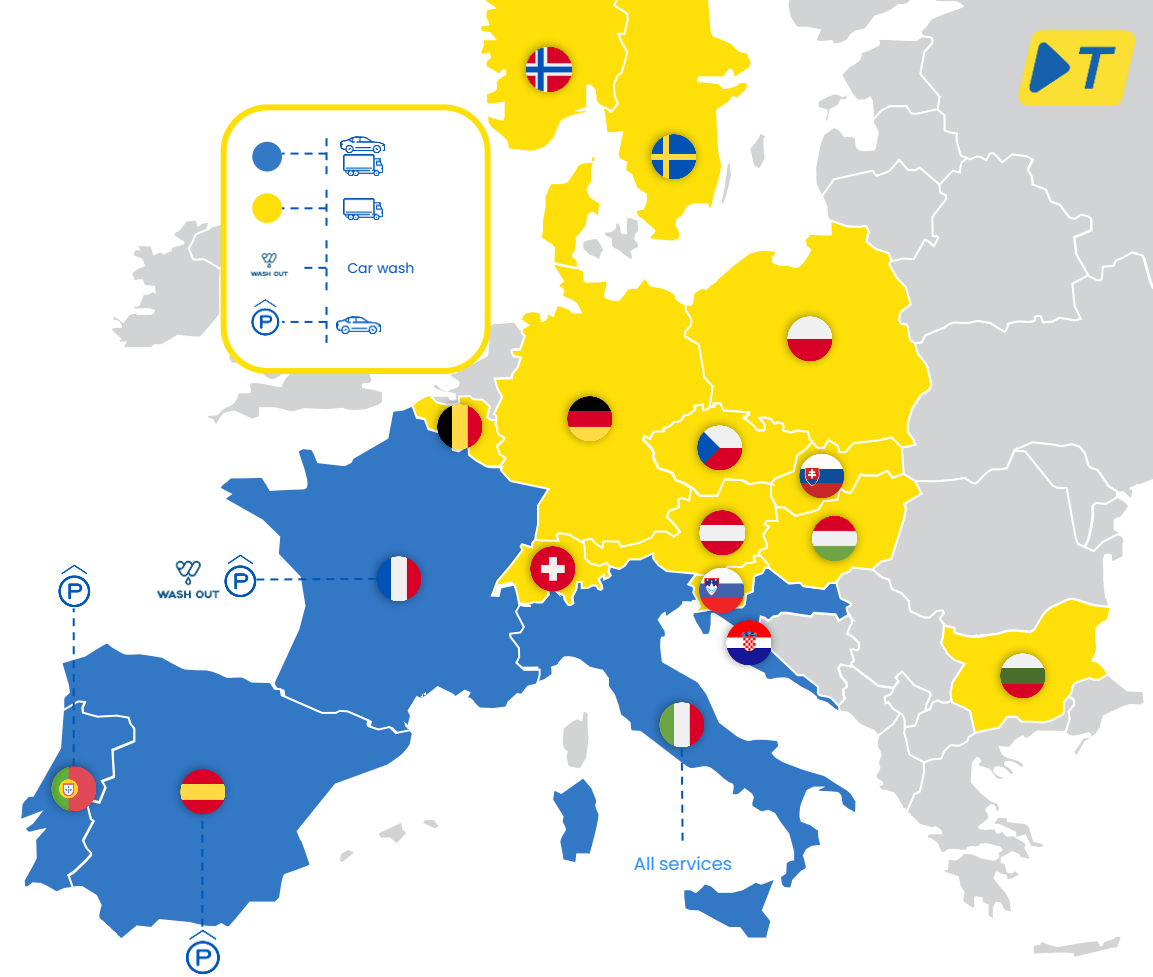
Tolling



Mobility



Insurance



Sustainable Project Management



ETIKA
Consulting

ETIKA Consulting Provides Strategic Debt Collection Services In The Motorway Industry.



Value Chain

Entire process on dedicated systems

International Presence

Consolidated Network with local native-speaking correspondents



120+

NETWORK COUNTRIES



5

GROUP OFFICES



97%

TOP REDEMPTION



1000+

HUMAN RESOURCES



1.500.000+

CLAIMS

Group Offices
Partner Network



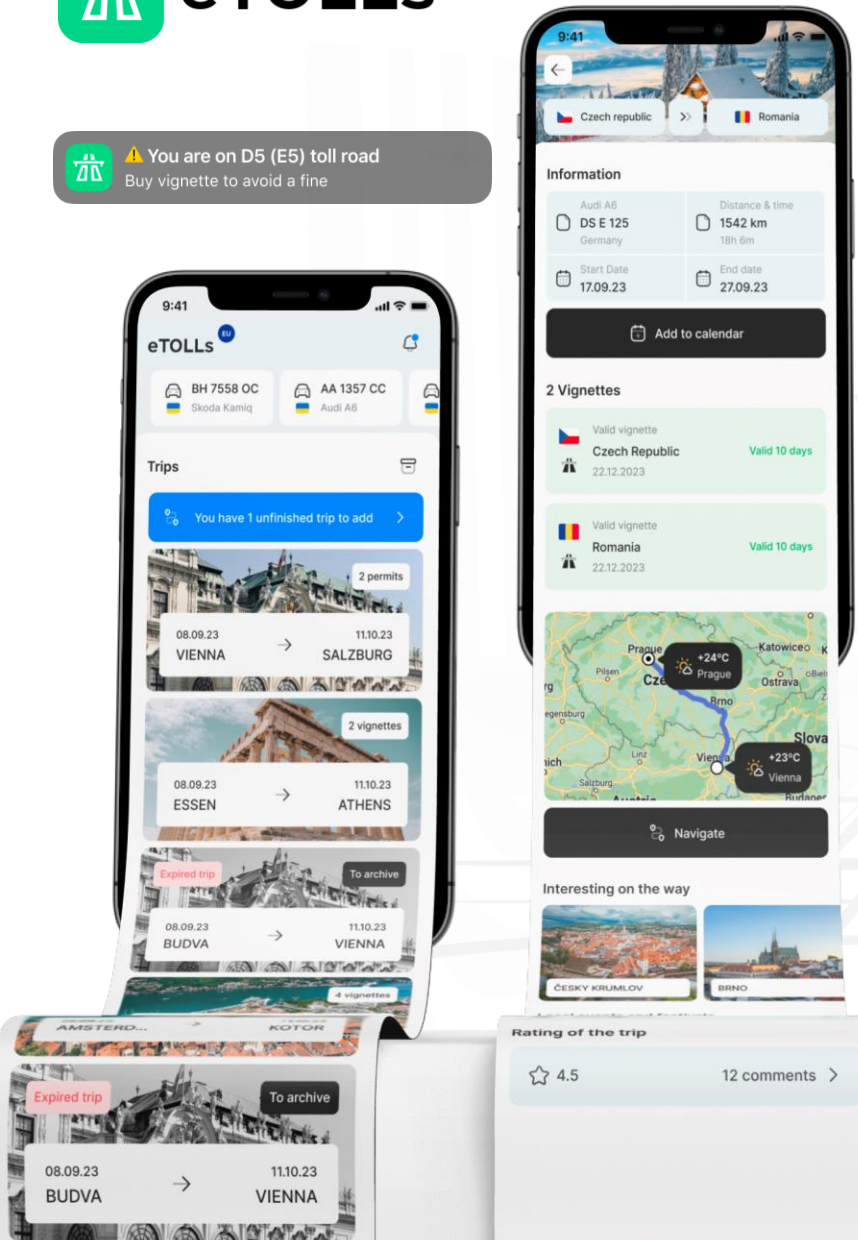
Stabio – **Switzerland**
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l.quistini@etika-consulting.com

Vienna – **Austria**
Florence – **Italy**
Cologne – **Germany**
New York – **USA**

 ⚠️ You are on D5 (E5) toll road
Buy vignette to avoid a fine

What we do?

- * We help drivers to pay all tolls they meet while driving through multiple countries
- * We've found out that Europe has a massive problem of billions in unpaid toll fines.
- * Our Journey Planner suggests all the tickets that you need for your trip: vignettes, bridges, tunnels
- * Push notification entering toll roads, so you don't miss a toll while driving and avoid huge fine
- * We help government to improve road safety - we reward drivers who drive safely
- * We serve customers from 56 countries, conducting sales in 11 countries, supporting 5 languages.
- * We see a world where drivers can enjoy the adventure rather than bureaucracy and smooth ride without barriers



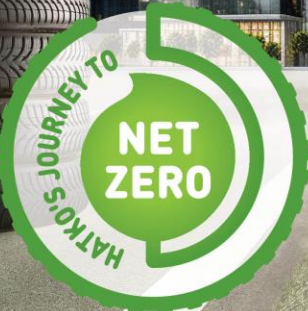


2 Pollution 1 Solution



1 Truck Tyre

1 m² of Sound Barrier



Die Autobahn: the C-ITS Project in Germany

First major commercial deployment of Connected Vehicle in Europe

Based on **C-ITS-G5** (802.11p) technology, with the possibility of switching to C-V2X.

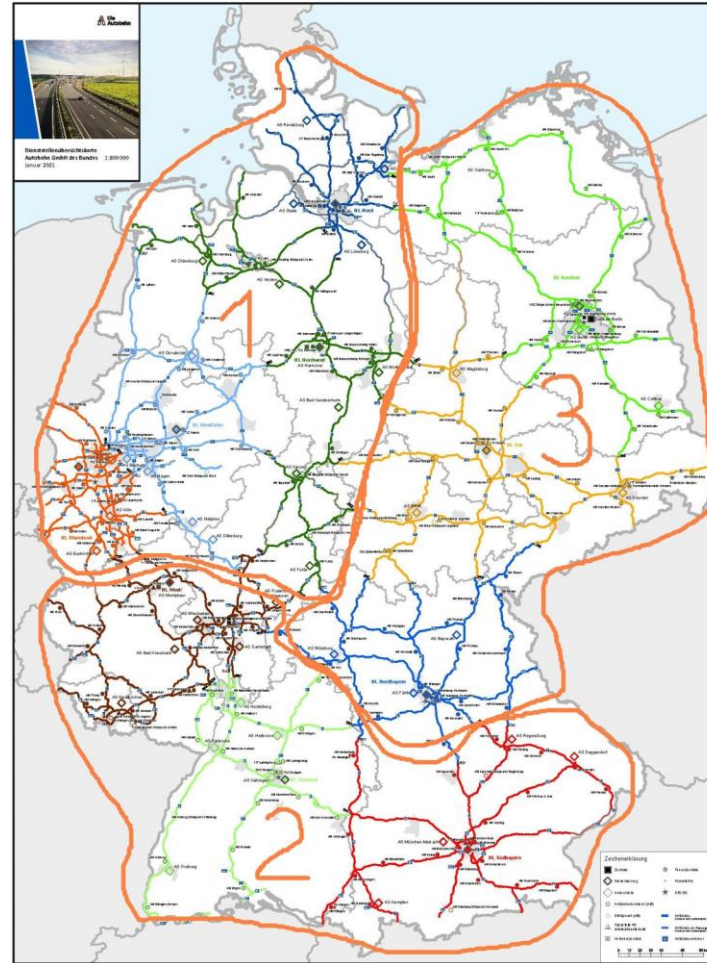
Coverage: **All the highway network in Germany.**

Divided into 3 lots. Lots 1 and 2 awarded to Kapsch TrafficCom.

Installation of about **1.800 V2X Roadside Unit (RSU) equipment** in **phase 1 (3 lots)**.

The system includes **IT security** functions: PKI ensuring secure exchange of messaging with vehicles.

Timeframe: **Phase 1: 2023-2024** / Remaining phases and maintenance: **until 2035**.



Connected Mobility Control Center



Trusted advisors in tolling and mobility



Strategy



Technology



Operations



Research



Market
Analysis



Staff
Augmentation

*Learn more about our
guiding principles.*

milliganpartners.com
info@milliganpartners.com



**Milligan
Partners.**

Nivi S.p.A. has been providing its services to all the major Concession holders for **more than 40 years**, representing a **true pioneer** in the collection of toll offences arising on both barrier-free (Free Flow) and barrier-comprised highway's systems.

Our workflow may include all the following points:

- **Recognition of the nationality** of the plates associated with the assigned toll offences, further rectifying any inaccuracy, through the specialized internal office **“NALPI” (Normalization of Addresses and License Plates Identification)**;
- **Plate inquiry** activity and, if necessary, **standardization** of the achieved data;
- Dispatch of **payment notices**;
- **A structured Contact Centre capable of handling 17 languages**;
- **Skip tracing** of “unreachable” motorists (through the internal Division named **Nivinform®**);
- **Postal & Legal** service provided by our affiliated Law Firms;
- Assignment of the cases to selected **International Partners**.

OUR GLOBAL AND STRATEGICAL NETWORKS



- **NGN - Nivi Global Network**: several DCAs and Lawyers located in many EU and non-EU Countries;



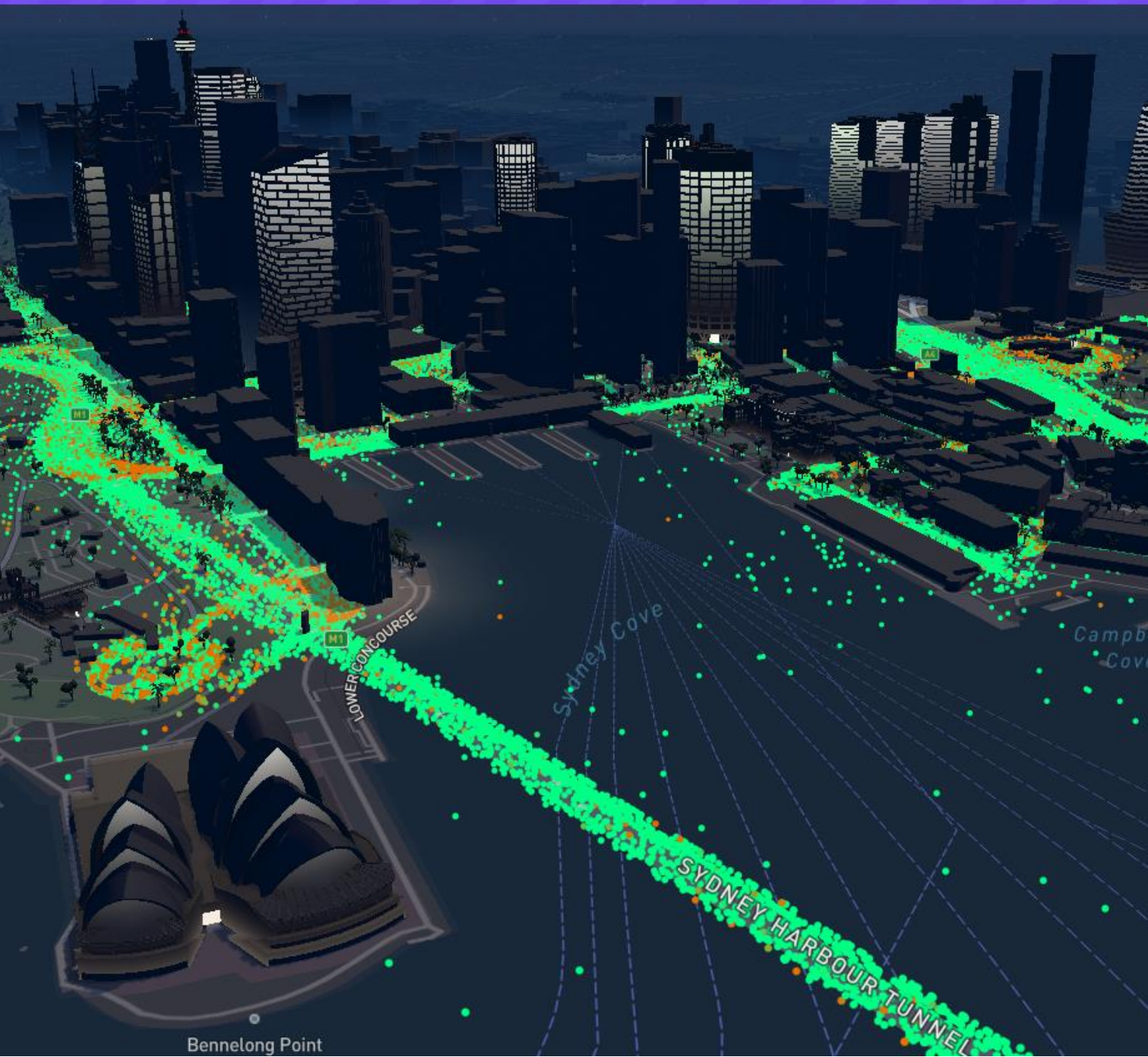
- **TCM Group - Global Debt Collection: present in over 167 countries**;
- The network of accredited Collaborators affiliated with **FENCA (Federation of European National Collection Associations)**;



- Nivi is also a Partner of **EOS GROUP**, an international leader in credit management with branches in over 20 countries and a network of Partners in 215 countries.

AI APPLIED TO THE TOLL OFFENCES'S COLLECTION

Nivi provides AI solutions applied to unpaid tolls collection processes, with particular focus on the following areas: license plate nationality recognition, user engagement and reconciliation of collections.



COMPASS

ASECAP DAYS



MILANO 2024

COMPASS IOT / SALFO

- CONNECTED VEHICLE DATA TECHNOLOGY
- ROAD INTELLIGENCE PLATFORMS
- DATA DIRECTLY FROM VEHICLE SENSORS
- VEHICLE BEHAVIOUR ACROSS ALL ROAD NETWORKS
- AGREGATED AND ANONYMIZED DATA
- SPEED, BRAKING, ACCELERATION, O-D, TRAJECTORIES
- ROAD SAFETY, PATH & INTERSECTION ANALYSIS
- NEAR MISSES, LIVE API'S, CUSTOM USE CASES

Nick Karahlis

MEng. Sc (UNSW)

Head of Product & Transport Engineering

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www.compassiot.com.au



Centre of excellence in new technologies, enabler of different services across ecosystem



Design of new devices



Management of existing products



Offering of services (insurance and “beyond-insurance”)



Relationships with technical partners



Support in interactions with institutions



Focus Mobility



>4 Mln

50% of Unipol Group Motor TPL clients

black-boxes managed that enable services for the assistance and safety of Group clients



1st European player to be accredited to the European electronic toll collection standard with UnipolMove

ALERT FATIGUE
LONG RESPONSE TIME

100%
30 min response

30%

15%

7%
5 sec to review

VISION

10% - 15%
REDUCTION IN SERIOUS ACCIDENTS

CAV

95% | **5 min**
IN UNDER
OF ALL INCIDENTS DETECTED

ITS/IoT

100%
ROAD MONITORING COVERAGE

CROWD
SOURCE

RISK
LOCATION
RELEVANCE
CONFIDENCE

60M
DATA POINTS

12 DIFFERENT
SYSTEMS

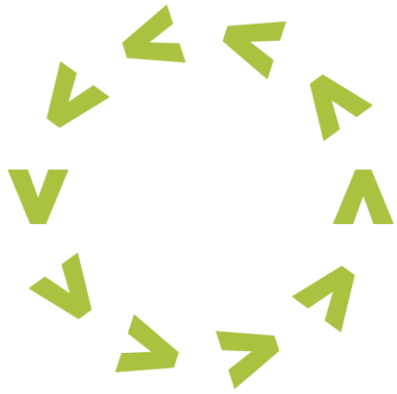
5,000 ALERTS

DEDUPLICATION

CROSS SOURCE

CROSS TYPE

ENRICHMENT



VERRA MOBILITY



Toll Solutions

We enable shared mobility fleets to provide a seamless tolling experience for their renters & drivers



Enforcement Services

We enable issuing authorities to enhance collection rates for outstanding fees & fines



Violation Management Services

We enable shared mobility fleets to reduce operating costs by outsourcing violation management processes

Enriching lives
by making
transportation
Safer and Easier

Proud supporter of:



Proud member of:



PROVEN. PRECISE. POSITIVE MOBILITY.

ViaPlus is a global mobility company in the Intelligent Transportation Systems (ITS) market, specializing in revenue and services management solutions for the transportation industry. Our customer operations, data analytics, and full-featured, single-account back-office technology facilitate the high-volume transactions required for seamless multimodal mobility. As a VINCI Highways subsidiary, we are committed to technical innovation and to promoting a positive mobility experience for all.



**Family
owned
Global
Player**



40 years experience with a global network on five continents



€208 million total revenue
€16 million R&D invest in 2022

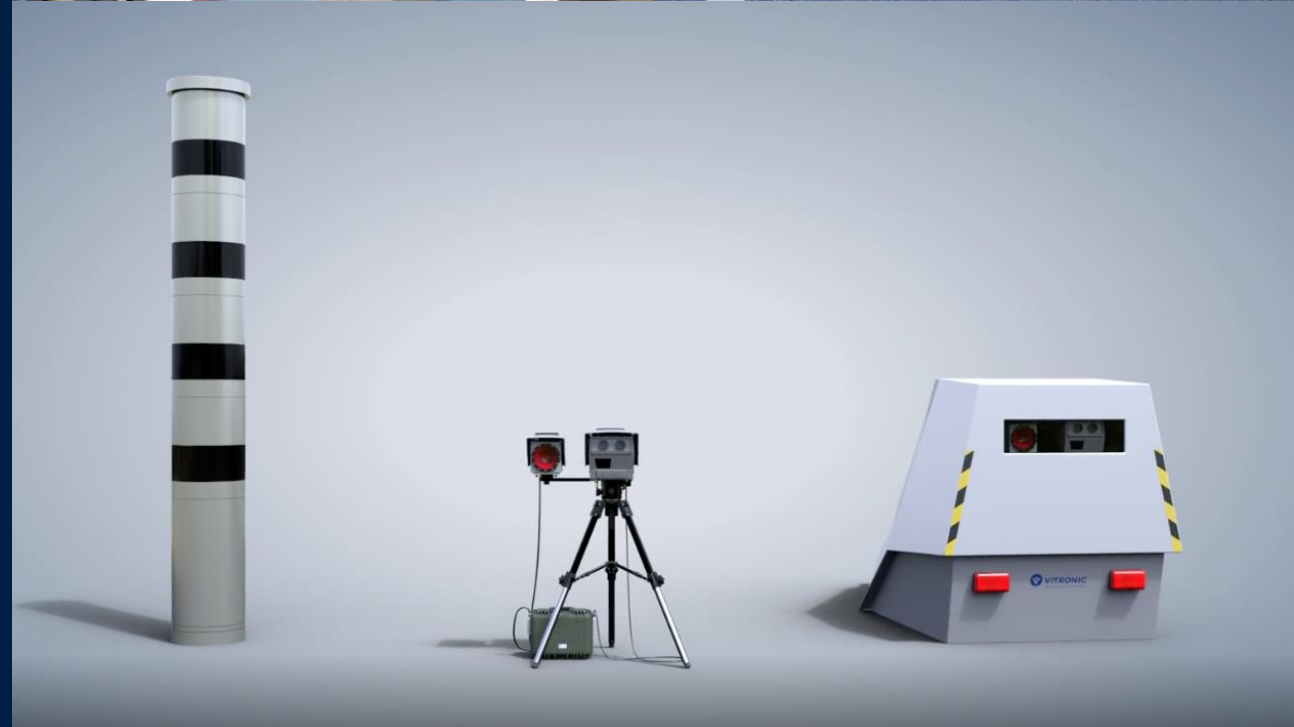


+1.400 employees worldwide

Full-Service Tolling Solutions

- ✓ Wide range of tolling technologies
- ✓ Camera-based and/or hardware triggered
- ✓ Software/Cloud
- ✓ Full service for your toll enforcement

Innovative toll systems need **mobile enforcement!**





Abertis Mobility Services

Toll solution provider
+ 13 countries
emovis.com

> **Benoît ROSSI**



Global Toll Concessionaire
+ 8,000 km of highway
abertis.com

> **Xavier Daura Albeldo**



A4 Highway
70 years of operations
a4holding.it

> **Nelly Girlanda**



Toll System Technologies

ETC – Free Flow – GNSS Enforcement systems - OBUs

Unrivalled know-how

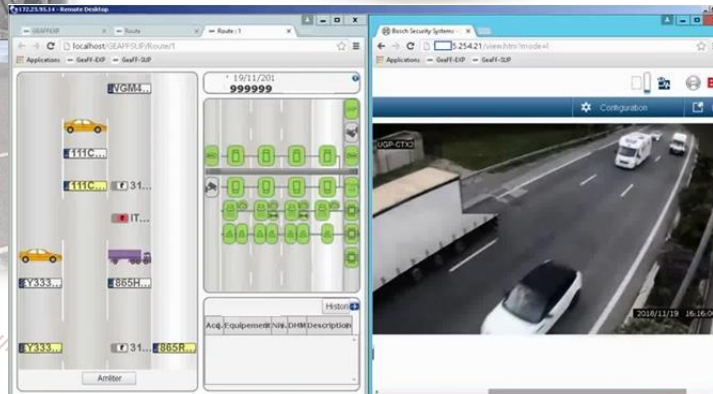
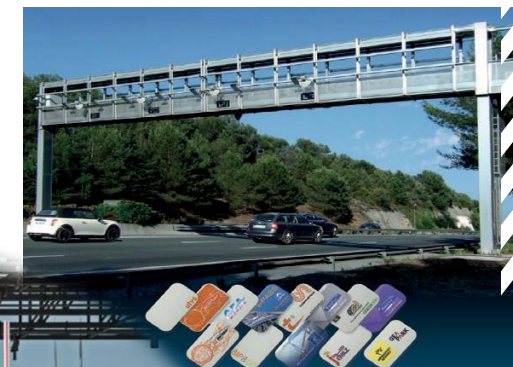
+ 28 000 toll lane equipped:

- Free-Flow/Enforcement +1 300
- ETC (DSRC/RFID) + 9 500
- Automatic all payment + 3 000
- Cards or coins + 2 000
- Entry lanes (close s.) + 3 000
- Manual + 9 500

- Plaza systems + 900
- Central systems + 120

- OBUs + 4 millions

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KUTTER
SPEZIALSTRABENBAU

RHINOPHALT

Creating shareholder and stakeholder value

ASECAP DAYS



MILANO 2024



Asset whole life cost
reduction and positive
return on investment



Significantly reduced
disruption, improving
safety



Reduce unplanned
interventions



94% reduction in
carbon compared to
resurfacing



Large outputs - night
or day (up to 30,000m²
per shift)



ECOGEST



ECOGEST

160

site vehicles



60

grass cutting machines



230

employees



7500

kilometres of service



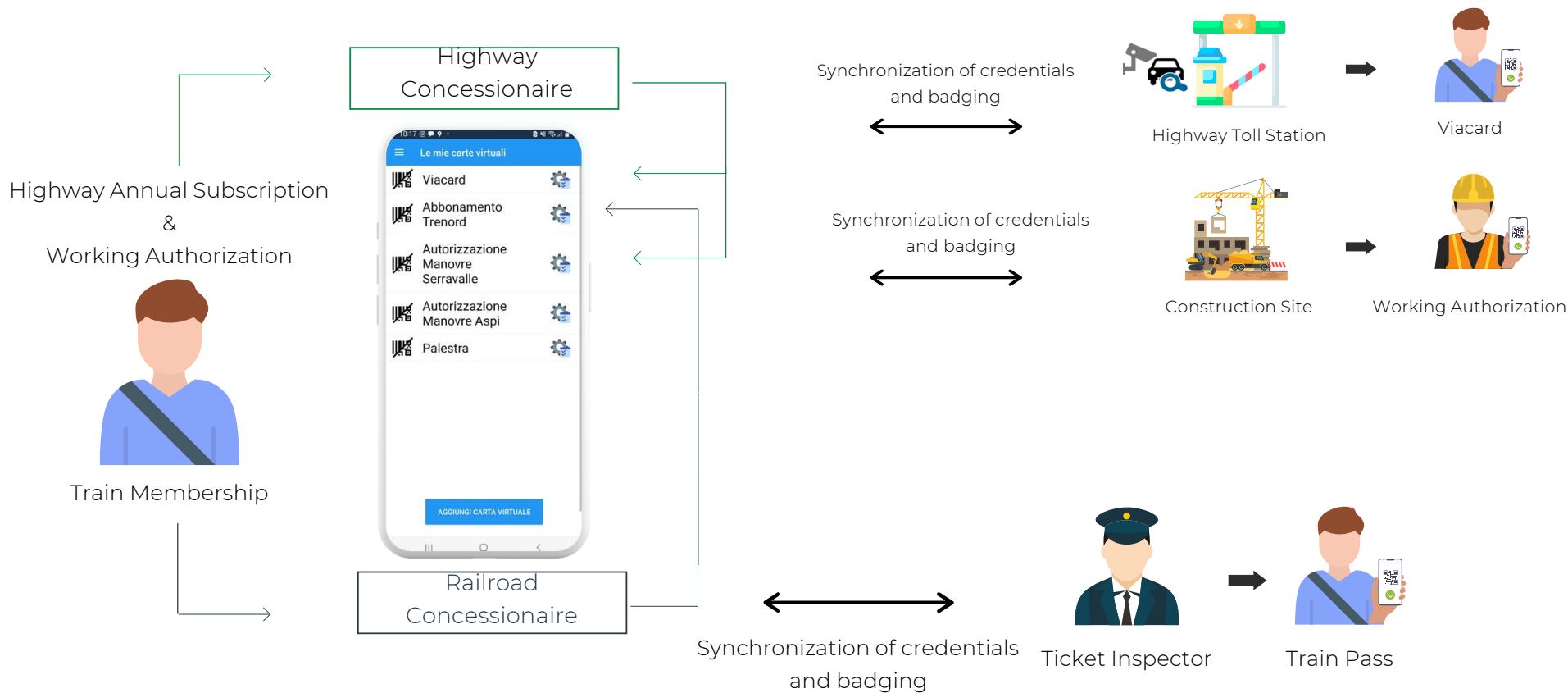
Predictive QR Code® & PQRCode Wallet App



Contactless System for Authentication Mobile-to-Mobile

The Predictive QR Code® is the patented authentication system that through one single mobile app:

- authenticates workers at construction sites
- allows multiple subscription services from different operators
- changes every 500 milliseconds, thus cannot be copied
- works also in offline mode, i.e. without internet connection





Know your roads.
Protects your assets.



Client story

milanoserravalle
milanotangenziali

Scope

- 187 centreline KMs
- 1st irisGO deployed Sept 2023

Results

Ordered 9 more for its effective automation.

Subscriptions

- Automated Road Patrol
- Roadway Asset Inventory



Automated Road Patrol

AI to detect potholes, damaged signs, graffiti and more.

25 Million Images

No in-cabin facing camera – driver privacy



Pavement Condition Survey

PCI data that follows ASTM 6433 standards at a much lower cost.

300+ Asset Types

No faces recorded – privacy redaction



Roadway Asset Inventory

Detail inventory of right-of-way assets.

A.I. specialized camera – train it for your data



We give roads a voice to
tell the story of the land.

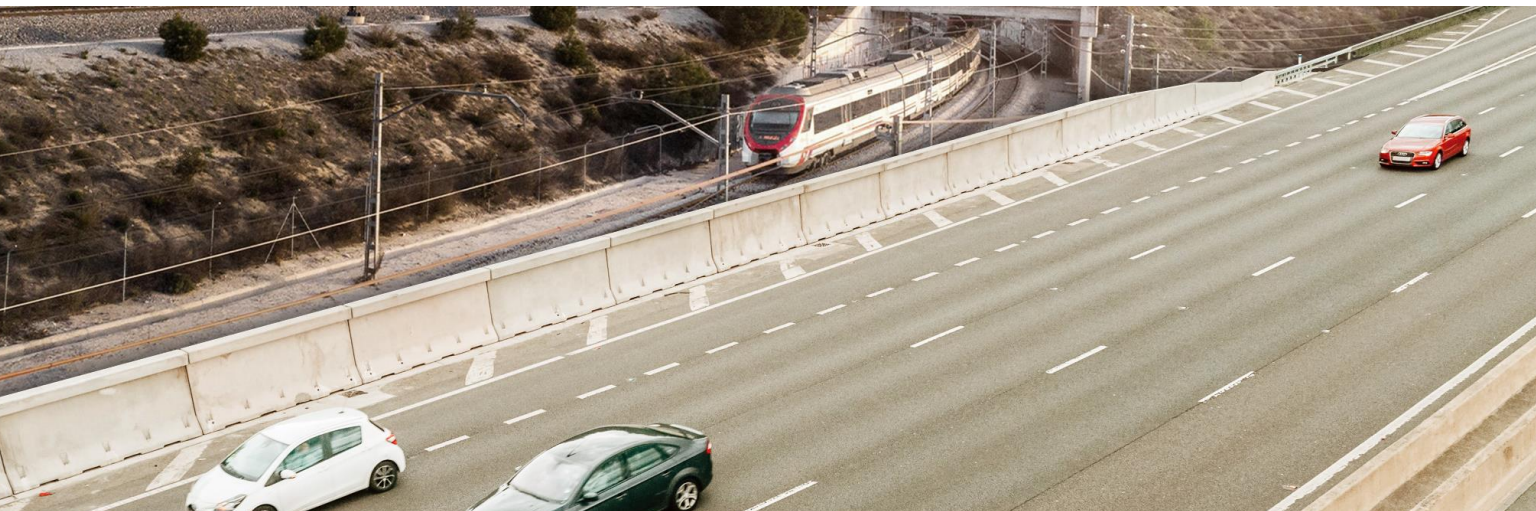


 LOQUIS

REBLOC 185A

REBLOC[®]
Concrete Barriers

- Designed for protecting critical road infrastructure like bridge piers, overhead signs or roadside structures against heavy goods vehicles.
- Installation: anchored in concrete
- Measures L x B x H: 400 x 57 x 185 cm
- **H4a and H4b** – Highest containment levels
- **W2 and W2** – Lowest working widths
- **VI2** – Unrivalled vehicle intrusion level



Acoustic Tunnel Monitoring – AKUT™



Distributed by Triveneto Servizi



Marco Zuin, CEO

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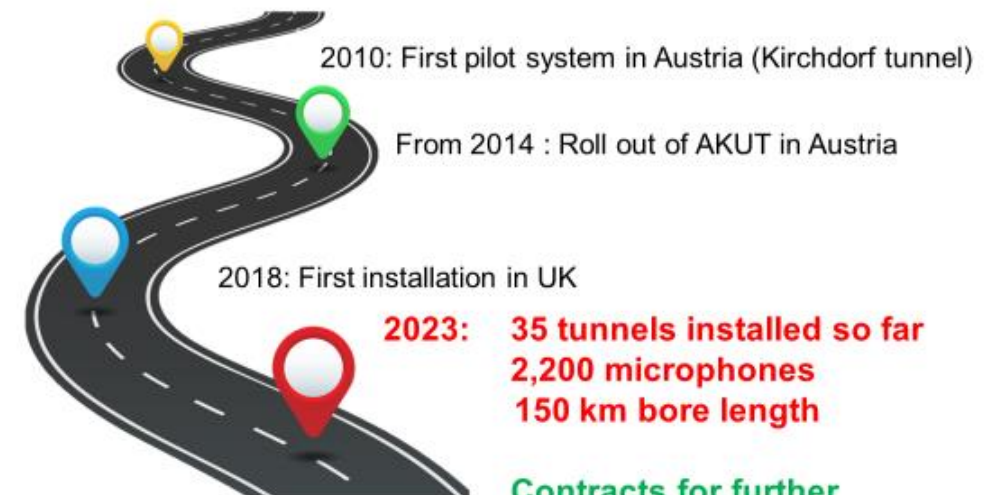
- Detection of abnormal sounds within the noise of tunnels
- **Incident detection in less than 1 second!**
- Discrimination of different danger categories
- Localization of the incident
- Incidents currently detected:
 - Crash / tyre burst
 - Tyre squeal
 - Door slam
 - Honking
 - Voices/shouting (Voice Scan)

www.akut-italia.it / www.akut-tunnel.com

www.trivenetoservizi.it / www.joanneum.at



References



THE INNOVATION COMPANY



Automated Lane Closures

No more workers in live lanes

Applications:

Tunnel & Bridge Approaches

Repetitive Ramp Closures

Work Zones... and more

Presentation by Marie Seguin, Versilis VP

When? May 15th at 9am (session 2)

