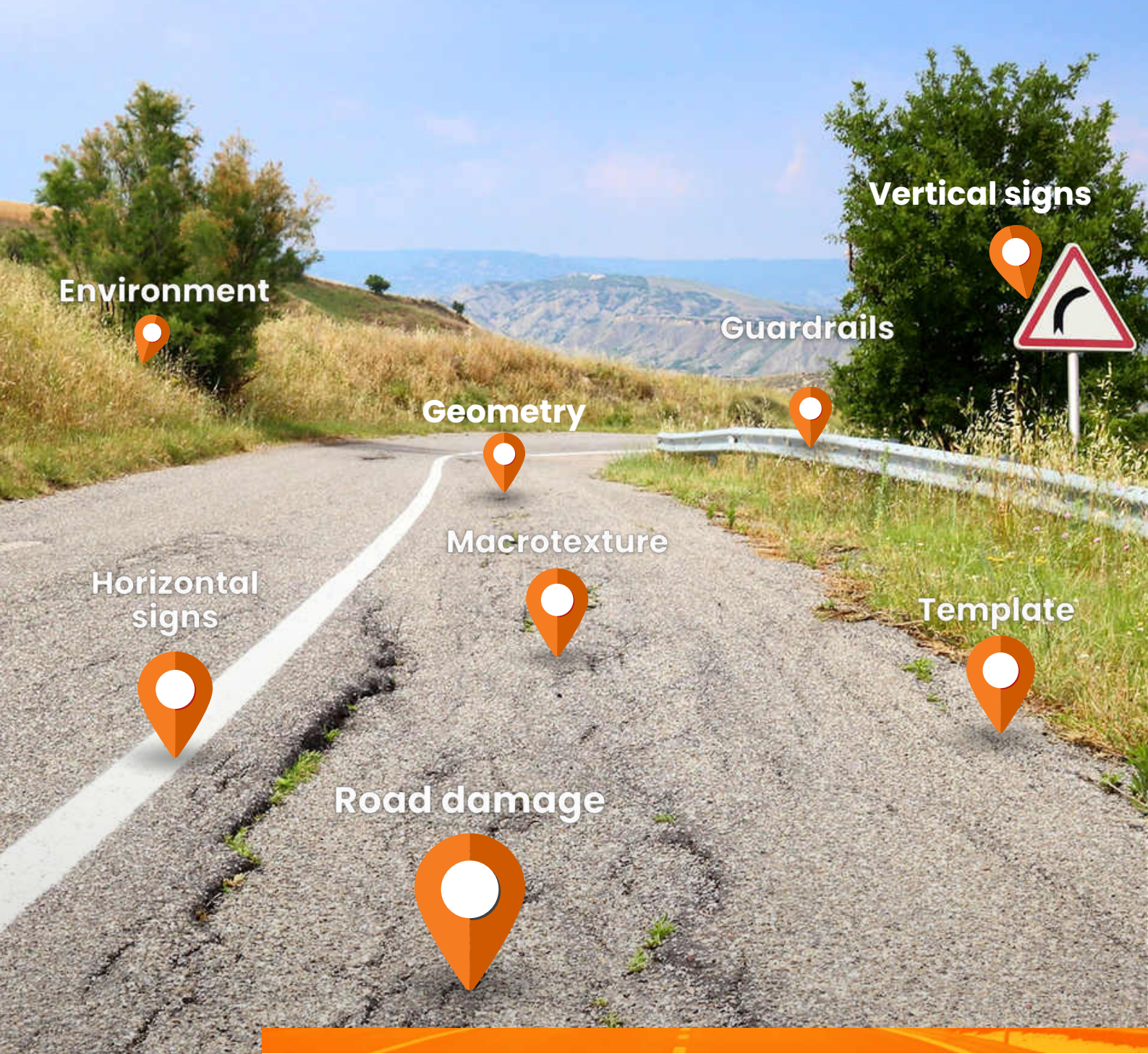


VIAPIX
SYSTEMS

Complete metrological monitoring solution for an intelligent management of your network

MADE IN FRANCE

Our solutions for your road infrastructure



VIAPIX« ACQUISITION

Survey, data acquisition & pre-processing

Compact and easy to use, it combines a panoramic imaging system, a satellite positioning module and a hybrid navigation solution. A WiFi tablet is used to control the system.

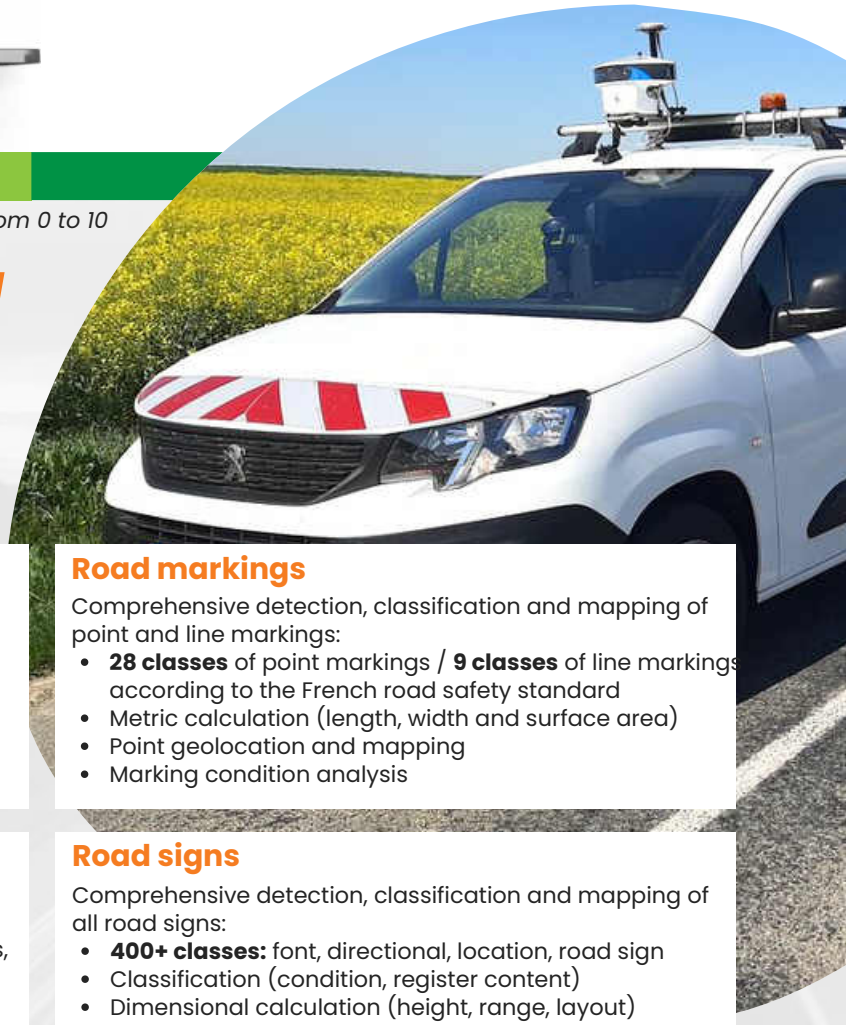


VIAPIX« EXPLOITATION

Data production and exploitation thanks to AI

Your assets are surveyed, inventoried and automatically qualified in accordance with current standards. The data can be used quickly and easily with our VIAPIX Exploitation software suite.

Surface rating from 0 to 10



Automatic processing using AI

Data is interpreted, inventoried, qualified and classified according to standards.

Geometry, surface condition, adhesion

Production of metrological indicators to analyse and qualify:

- Longitudinal / transverse profile
- Macrotexture
- Geometry
- Measurement of roadway and shoulder widths

Road markings

Comprehensive detection, classification and mapping of point and line markings:

- **28 classes** of point markings / **9 classes** of line markings according to the French road safety standard
- Metric calculation (length, width and surface area)
- Point geolocation and mapping
- Marking condition analysis

Damage inventory

Detection and classification of anomalies and emergences:

- **21 classes**: longitudinal, crazing, transverse, potholes, etc.
- Location on / off the road surface
- **ME 38-2 survey methodology (M2, M3, M4, M6)**

Road signs

Comprehensive detection, classification and mapping of all road signs:

- **400+ classes:** font, directional, location, road sign
- Classification (condition, register content)
- Dimensional calculation (height, range, layout)

Restraint and safety devices

Inventory of vehicle and pedestrian restraint systems as defined in the standard:

- Safety barriers (metal, wood, GBA, MVL)
- Connections
- Ends
- Shock absorbers
- Guardrails

Infrastructure compliance analysis

Checking compliance with regulations and road safety requirements:

- Sign location
- Sign orientation
- Sign position
- Consistency of road signs and markings

Why should you choose us?

1. Comprehensive solution
Collect all your road asset data in a single pass!

2. Security
With automated AI processing, you can speed up your decision-making to guarantee greater safety for users.

3. Significant time savings
Survey in a single pass at speeds up to 120km/h! Automatic AI classification of infrastructure.

4. Accuracy
With over 95% accuracy, millimetre precision and high-precision geolocation, you won't miss a thing.

5. Cost-effective
Save up to 60% on network maintenance by making the right decisions before it's too late.

6. Easy
Install our system in 20 minutes! Easily integrate AI processed data into your GIS database.

7. Create your digital twin
Automatically collect, list and qualify all your network data. Use this data to create your digital twin!

8. Improved carbon footprint
Reduce the environmental impact of your maintenance through targeted, intelligent decisions.

9. On demand
Add functions to suit your needs:
PFT, DLP, GEO, LCMS... Our VIAPIX module centralises and processes all your data.

10. Made in France
Our solutions are the most reliable on the market, backed by over 10 years of R&D.



A few *case studies*













Testimonials

"VIAPIX is a powerful concentration of technologies that provides a 360° view of road assets. A powerful solution for demanding project owners."

Frédéric SAGNIER
Innovation project manager

COLAS

"VIAPIX 360° is one of the most powerful, intelligent, compact and autonomous systems on the market! With its AI add-on, there's no doubt that VIAPIX will have a growing place in our fleet!"

Jean-Pierre BRIQUET
Managing Director of the Roads and Structures division

NextRoad

User journey *(for 100 km)*

1 day

1 **Preparation**
Analyse the itinerary and prepare the list of sections

20 minutes

4 **Importing data**
into your VIAPIX exploitation interface

1-2 days depending on amount to process

5 **Automatic processing**
AI & Deep Learning

Operated on VIAPIX server SYSTEMS

2 **Equipment**
Receive the equipment, equip the vehicle, load the list of sections & itinerary

20 minutes

3 **Collection**
Drive and collect the data

up to 150 km per day

6 **Delivery**
Integrate AI-processed data into your GIS database

1 hour

Your results in ***4 to 7 days!***

Our *customers*

TECHNOLOGIES NOUVELLES · AXIMUM · COLAS · DIAGWAY VINCI · INFRADIAG EIFFAGE · ARTELIA · atemac · ECOMIPA · GEOTRA · GINGER CEBTP · INGETEC · ITYAC · Lifting · LOGIROAD EXPERT SOFTWARE FOR ALL · NextRoad · PAVEXPERT · TDCSA · VERDI · RHÔNE LE DÉPARTEMENT · DÉPARTEMENT BOUCHES DU RHÔNE · GRANDLYON la métropole · CULLETTIVITÀ DI CORSICA COLLECTIVITÉ DE CORSE · DÉPARTEMENT DE LA Réunion · SEINE-MARITIME LE DÉPARTEMENT · Nord le Département · haute savoie le Département · Limoges Métropole Communauté urbaine · GOUVERNEMENT DE LA NOUVELLE-CALÉDONIE · M TAG Le mouvement, c'est la vie

Expert integrator of Pavemetrics solutions **Pavemetrics**

viapix.fr

@viapix

Contact us!

Marc DESTHIEUX
Managing Director
+33 6 81 56 10 45
mdesthieux@viapix.fr

VIAPIX Systems
2, rue des Mûriers
69009 LYON
+33 1 85 76 57 82
contact@viapix.fr