



Automated Classification

Why choose The Cross Product?



PRECISE TOOLS

High precision, an advantage over manual solutions



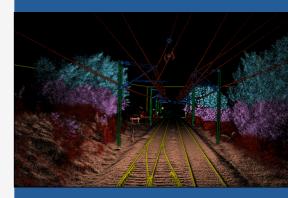
SPEED OF EXECUTION

Automation representing costs reduction and time saving



CLOUD PLATFORM

Integration into processing chains. Calculations performed on the cloud AI AND 3D LIDAR FOR INFRASTRUCTURES



PROPOSITION PREPARED BY
THE CROSS PRODUCT

A SOLUTION ADAPTED TO YOUR BUSINESS

Responding to your needs

- Study what exists and automatically recognize the objects that make up the infrastructure
- Allow an accurate inspection of the elements present in the 3D point cloud
- Perform automated infrastructure inventories

We propose an algorithm combining artificial intelligence and professional knowledge to accurately recognize elements in a railway infrastructure.











vegetation



cables

Our software assigns to each object in the scene a class indicating its category as well as a unique identifier allowing an exhaustive and an accurate analysis.

Our solution is 100% automated, reliable and fast to meet the needs of predictive and corrective maintenance.

An algorithm adapted to linear networks, capable of processing different sections in parallel and concatenating the results to obtain a global view.











Products Railway Highway **Industrial Site** Semantic & Panoptic Semantic & Panoptic Classification Semantic & Panoptic Ground markings, Overhead wires and Vectorization Rails and Track Axis safety barriers equipment Clash Detection Clash Detection Safety distance **Professional Application** Reverse Engineering Reverse Engineering verification Compliance

Input Data

• 3D Point cloud (LAS/LAZ/E57)

Output Data

- · Semantic classification (LAS/LAZ/E57)
- Panoptic segmentation (LAS/LAZ/E57)
- Classification report (CSV)

Compatibility

- Platforms (API)
- Any device with a web browser and an internet connection

Can be integrated into point cloud processing platforms

Large-scale use throughout railway network

> **Pricing by kilometer** or by subscription

> > Accessible on:













Contact us



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