The Cross Product

Automatic Classification

Why choose The Cross Product ?

AI AND LIDAR 3D FOR INFRASTRUCTURES

PRECISE TOOLS

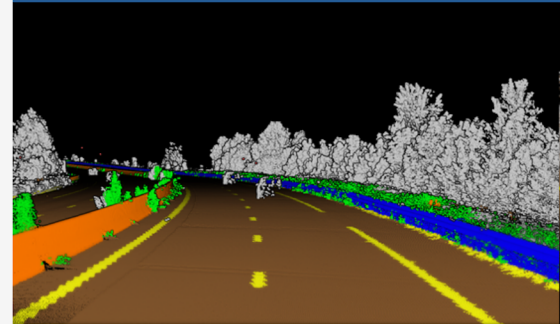High precision, an advantage over manual solutions

SPEED OF EXECUTION

Automation representing costs reduction and time saving

CLOUD PLATFORM

Integration into processing chains. Calculations performed on the cloud

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 **business knowledge** to accurately recognize **elements** in a motorway infrastructure.

ground	ground marking	safety barriers	vegetation	bridges

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% automatic**, **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**.

Input data

- 3D Point cloud (LAS/LAZ/E57 format...)

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 highway network

Pricing by kilometer or by subscription

Already available on

e-cassini   Alteia   setec

Products	Railway	Highway	Industrial site
Classification	Semantic & Panoptic	Semantic & Panoptic	Available soon
Vectorisation	Rails and track axis	Ground markings, safety barriers	Available soon
Professional application	Clash detection	Reverse engineering	Available soon

Contact us
contact@thecrossproduct.com

TheCrossProduct

www.thecrossproduct.xyz