The CrossProduct
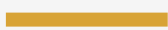
3D data from IGN®.
Ground Classification by TCP.

Automated
Ground Classification

Why choose The Cross Product?

AI AND 3D LIDAR FOR INFRASTRUCTURES

PRECISE TOOLS

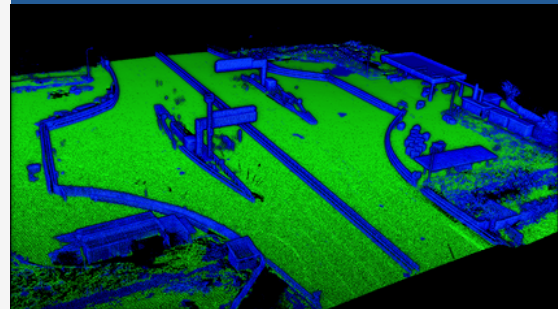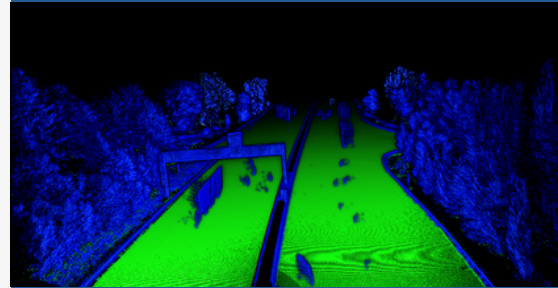High precision, an advantage over manual solutions

SPEED OF EXECUTION

Automation for cost reduction and time savings

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

- Automatically recognize the ground that is present on the area whether rural, urban or linear infrastructure
- Light your point cloud by keeping only points belonging to ground
- Specially designed for Digital Terrain Model (DTM) analysis

We propose an algorithm combining **artificial intelligence** and **professional knowledge** to accurately recognize the **ground** on any type of areas.

ground

Our software assigns a **class** indicating the category as well as a **unique identifier** allowing an **exhaustive** and an accurate **analysis of the ground** on the point cloud.

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

An algorithm adapted to **all types of areas and infrastructures,** (such as rural, urban, road, railway, etc.) capable of processing **large scale data**.

Input Data

- 3D Point Cloud (LAS/LAZ)

Output Data

- 3D Point Cloud containing only ground points (LAS/LAZ)

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 any network or infrastructure

Pricing by surface (hectare) or by subscription

Accessible on:

Scaleway   aws   Azure

e-cassini   Alteia   setec

Contact us

contact@thecrossproduct.com

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

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