



YellowScan

Reliable LiDAR for UAV.

USE CASE

Riverbanks



UAV USED
IDS iA3 Colibri



SOLUTION
Mapper

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The number of projects done with our YellowScan system depends on the size of the projects, but we usually achieve 2 to 3 projects per week.

Andrejs Veliks, CEO, A-Geo

Business need.

In the town's urban remodelling plans, the redesigning of the riverbank is a priority. Beautiful riverbanks attract people. At the moment, too many trees and bushes prevent access to ground data with traditional surveying methods.

A 2D topographic map and 3D points are the expected deliverables. These should help locate where the bushes are, where the ground is lowest/highest, if there are hidden objects.

All this information enables architects to imagine the reorganization at best, evaluating how much work and material is needed.

Solution.

YellowScan lightweight UAV LiDAR systems enable the quick and easy collection of detailed data about topography of the surveyed area, even where dense vegetation lies.



Company: A-GEO
Website: a-geo.lv
Country: Latvia



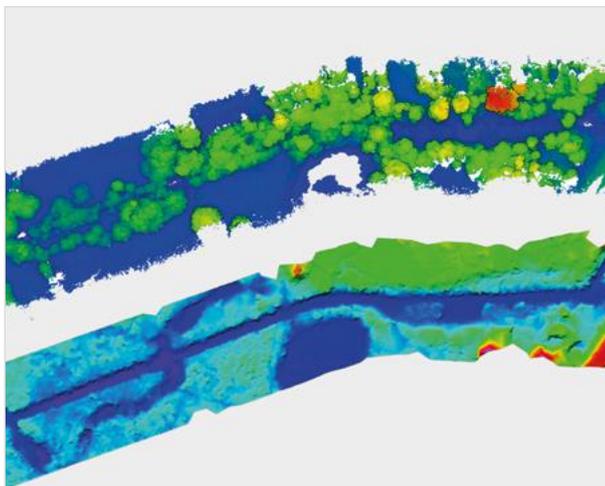
USE CASE

Results

With a point density of around 100 pts/m² (9 pts/ft²) thanks to the Mapper's 3 echoes, the job was done much faster than traditional survey, with high accuracy, precision, and low human risk.

Acquisition.

Two flights of 40 minutes each were necessary to map the riverbank. The data processing through YellowReader then TerraSolid took about 1 week, and delivering the expected deliverables (2D topographic map and 3D points) took another week.



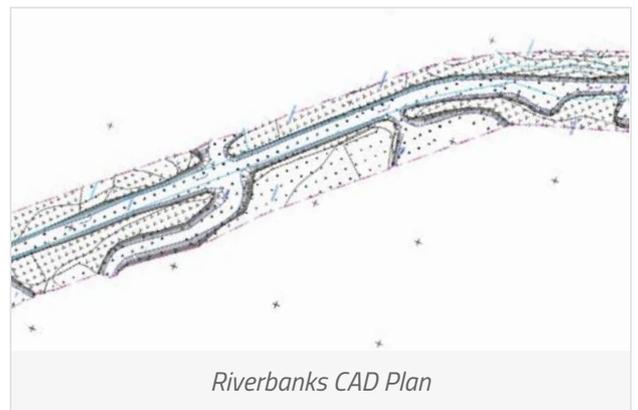
Riverbanks point cloud

Benefits.

- High density data
- Good GNSS coverage
- Access to difficult areas
- Ground data
- Rapid deployment
- Low human risk

Mission parameters.

- Number of flights : 50
- Survey size : 3 km (10 000 ft)
- Duration: 80 minutes
- Number of flights: 2
- Flight speed : 5 m/s
- Flight altitude : 50-70 m



Riverbanks CAD Plan

You want to learn more about LiDAR and Riverbanks applications ?

Scan this QR CODE

