

YellowScan

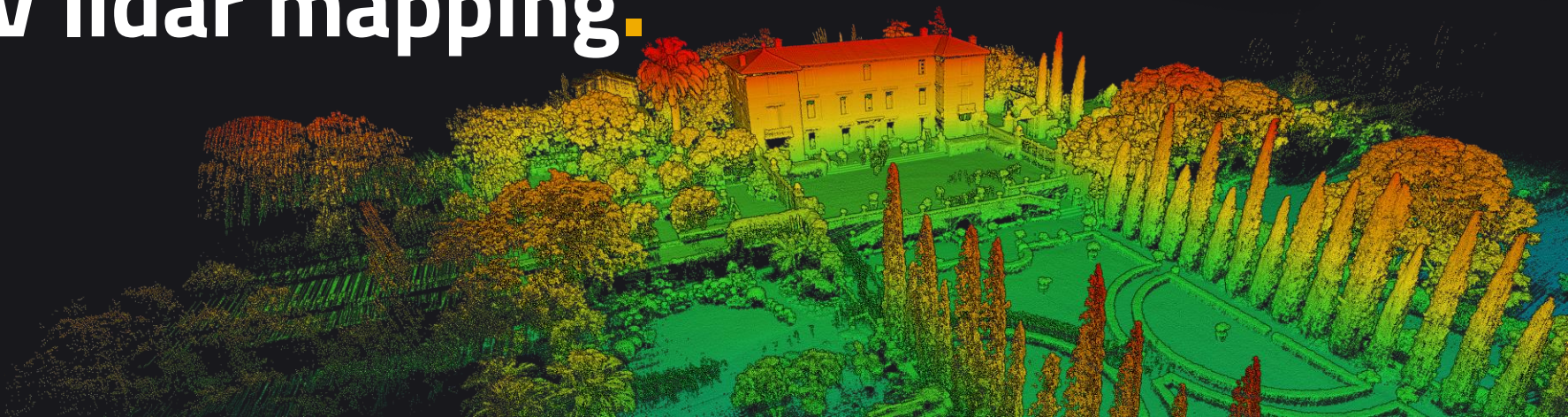
Designed to innovate.

2022/05/06

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EPIC Online Technology Meeting on LiDAR Miniaturization

UAV lidar mapping.



A full ecosystem for our users.



Mapping tools

Turnkey, easy-to-use LiDAR systems

Software

Streamlined, state-of-the-art software solutions

Support

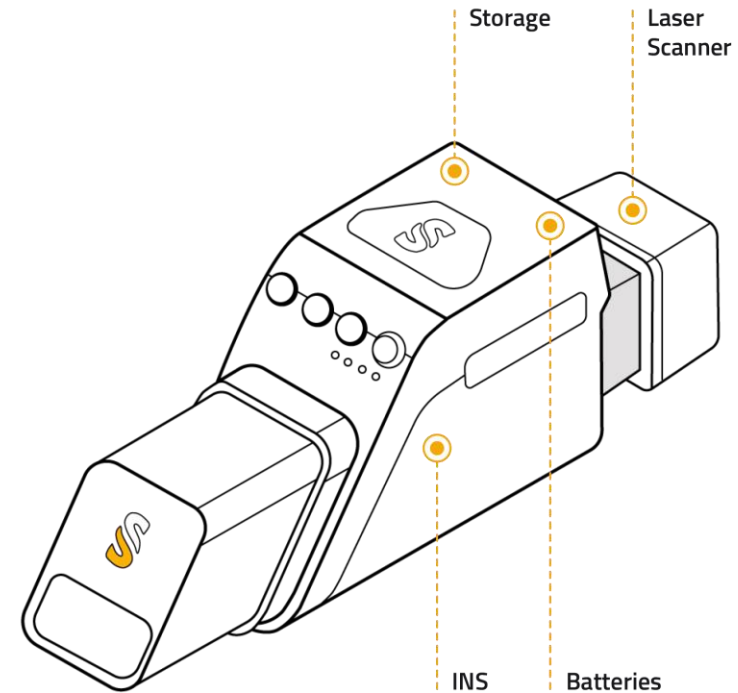
A committed and supportive team



Hardware offer.



- / Lightweight
- / Fully integrated with embedded batteries
- / Easy setup
- / Compact
- / Adaptable to any UAV platforms



From Sensing to Mapping.



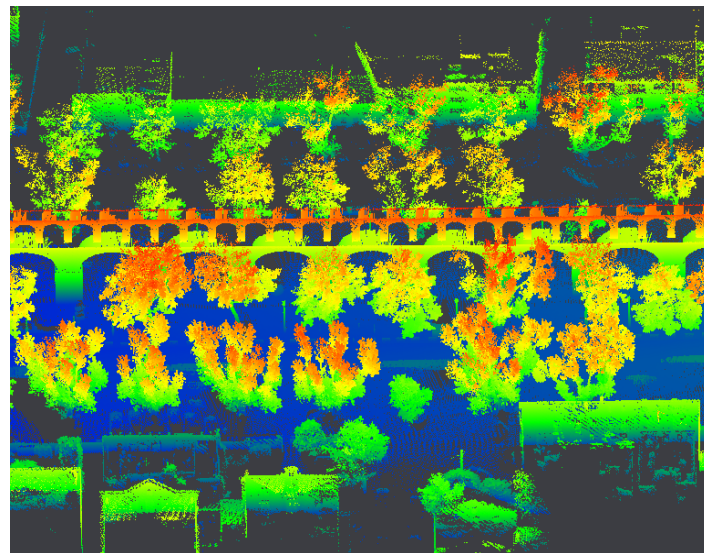
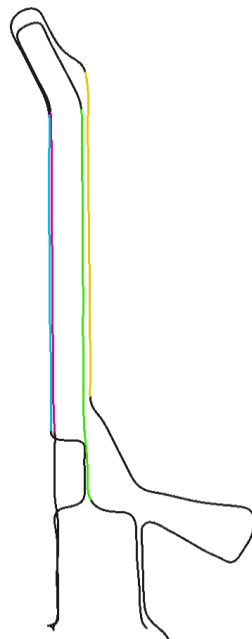
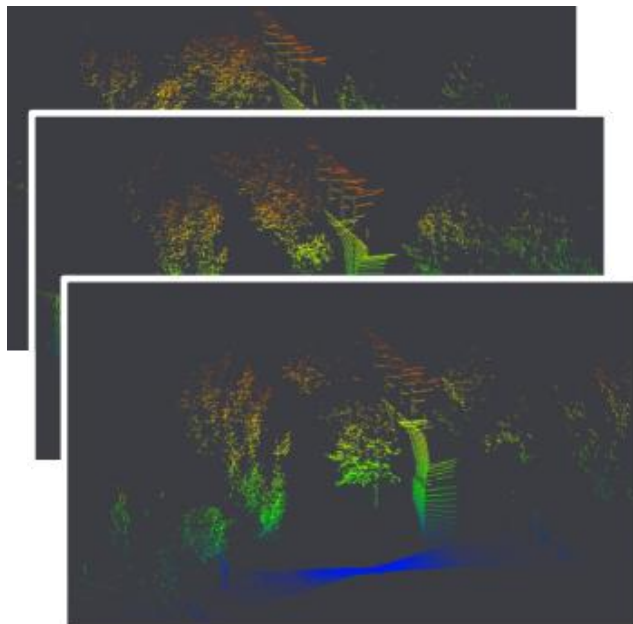
Sensing

+

Localizing

=

Mapping







Forestry

Tree inventory, biomass estimation, tree height measurements, get all the data you need for your forest management.

Power lines

Secure your power lines and plan the trimming of offending vegetation with 3D data.

Civil engineering

Plan excavation & backfill, follow your construction sites and stockpiles with real-time aerial imagery from lightweight UAV.

Mining

Manage raw material inventory or site development.

Archeology

Discover the ancient ruins buried under vegetation.

... from various industries.

Software offer: CloudStation.



Manage point clouds

A complete software solution to create and manipulate your point cloud data.



Customize data

Extract, process and display data immediately after the acquisition flights



Export .LAS and .LAZ files

The auto-generation of strips and the production of .LAS and .LAZ files are done in a few clicks. Only 15 min to export your LAS files.



Software offer: Add-on modules.



Strip adjustment

A point cloud enhancing toolbox



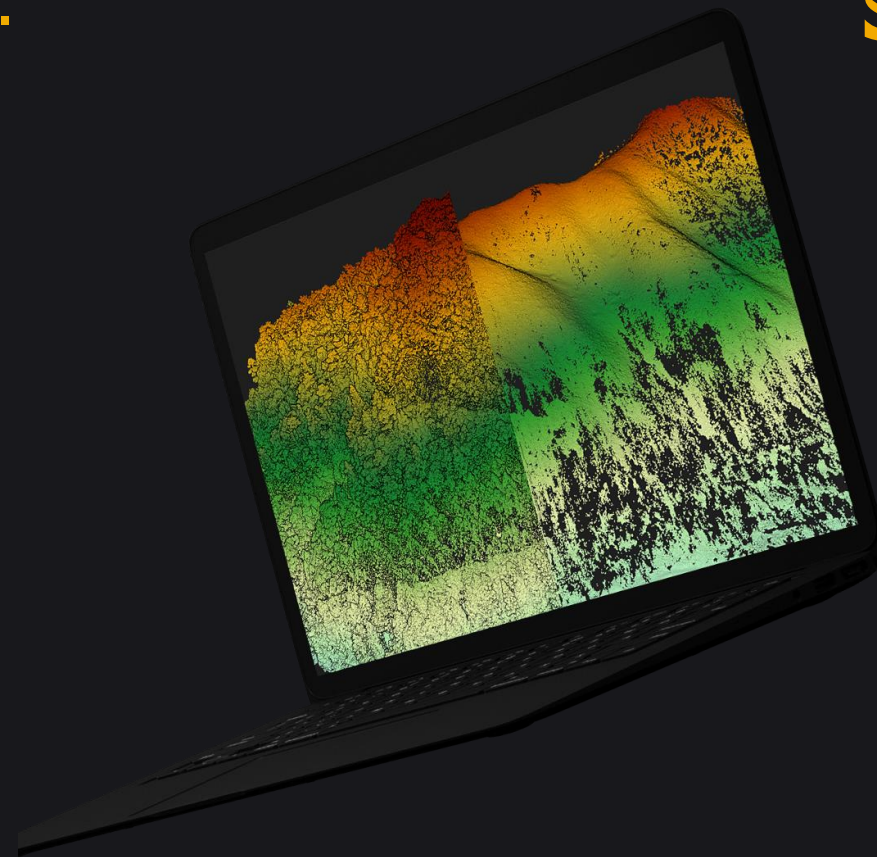
Terrain

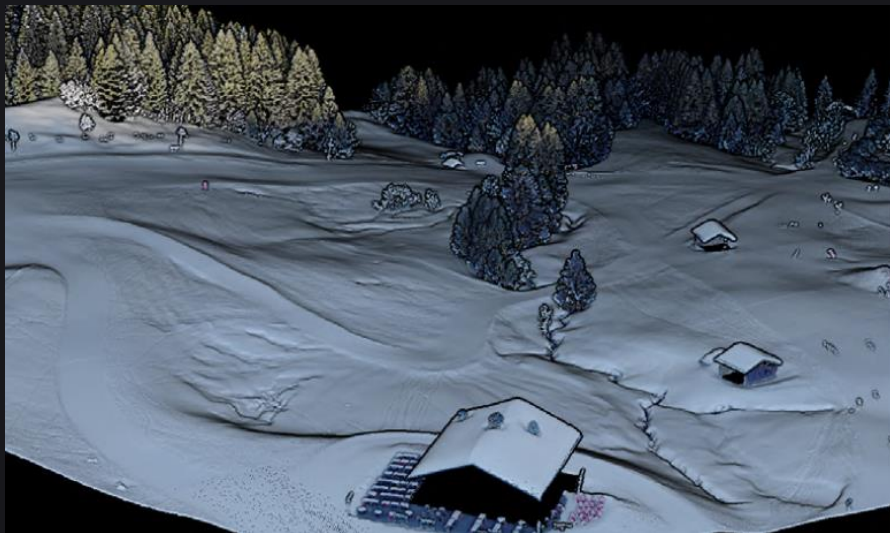
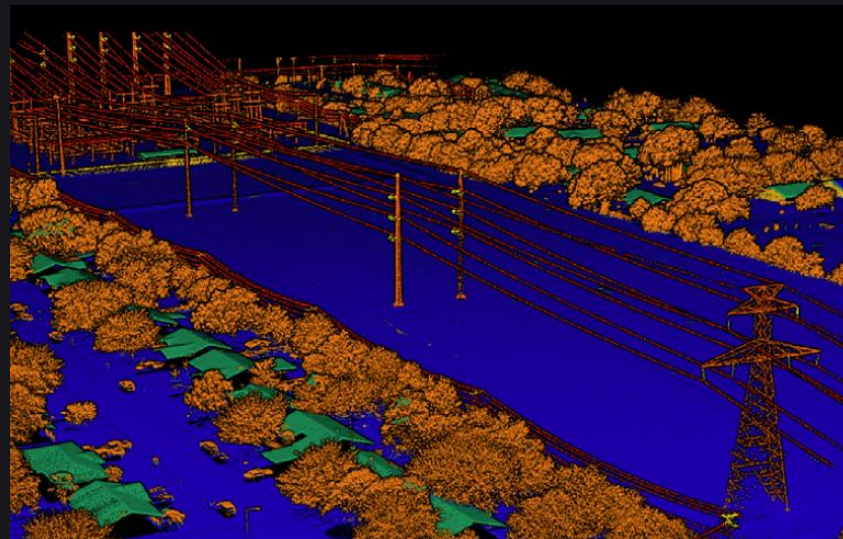
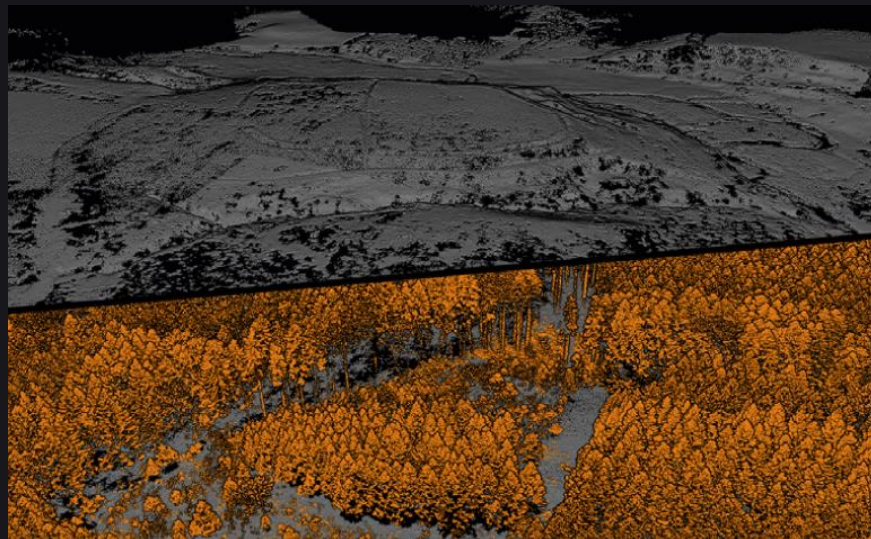
Generate your DTM in just a few clicks



Colorization module

Colorize and texturize your point cloud with simultaneously captured pictures







What laser scanning technology we need.

Detection range

Flying 120m above ground : 200-250 m laser range @ 10% reflectivity

Measurement precision

Centimetric precision (1-3 cm measurement repeatability)

Multi-echo technology

Ability to detect targets below vegetation

Dimensions

< 500g laser scanning system