



Showcase | Corridor Mapping

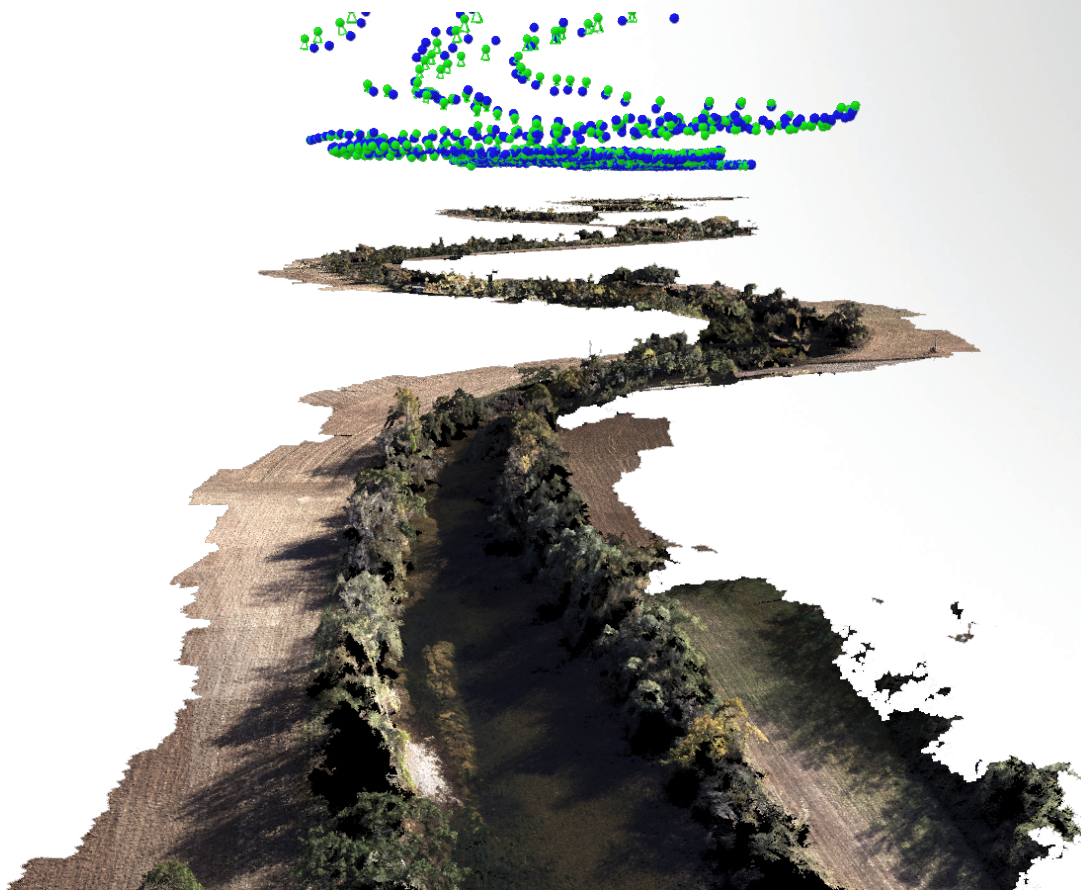
Emergency Response

PROJECT

Mapping a 15 km stretch of a river bank in France as an emergency response to flooding, using drones and photogrammetry software to identify the post-flood condition within 24 hours

KEY BENEFITS

- Fast data acquisition at less risk to personnel
- High resolution orthomosaics for more accurate interpretation
- Project cost reduced to 1/10 of the previous price



Data Acquisition

HARDWARE & FLIGHTPLAN

Delair Tech DT-18 drone with DT 3-band RGB sensor camera
Corridor flight plan with 80% of forward overlap and 3 flight lines

FLIGHT TIME

45 minutes

DATASET

1,992 images at 4.2 cm GSD

Project Outcome

DELIVERABLES

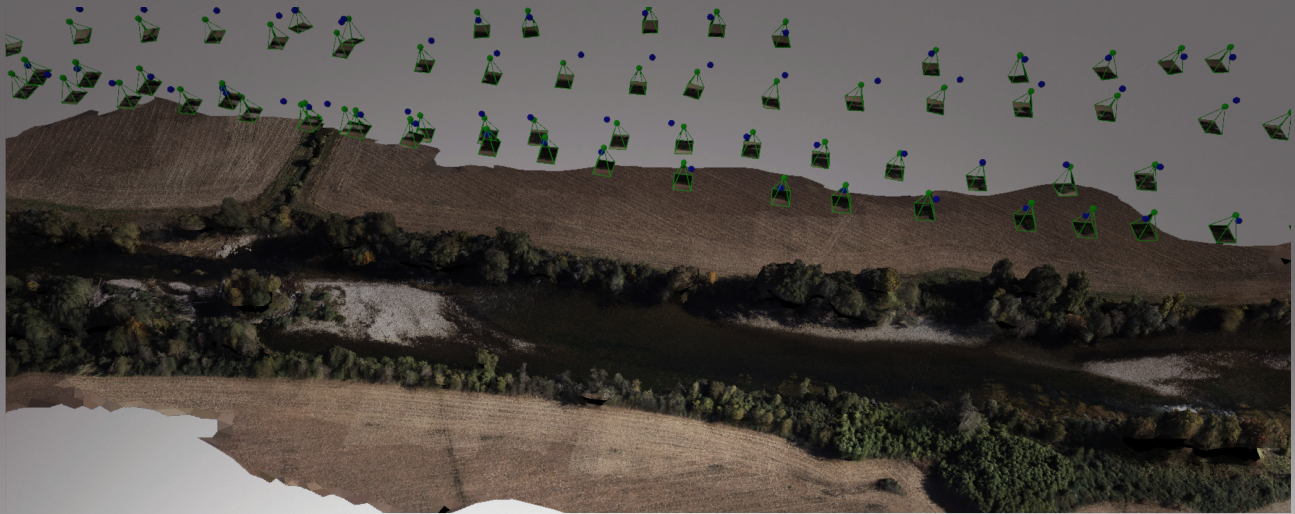
- Orthomosaic to identify debris, fallen trees or other obstructions
- DSM for measuring elevation of the river bank

PROCESSING TIME

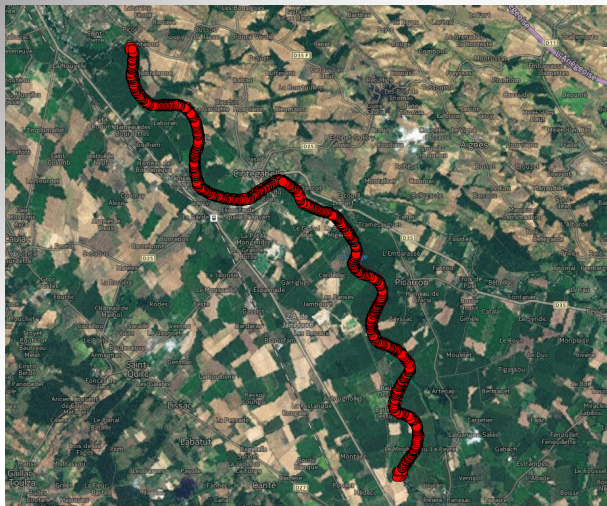
Around 14 hours to generate a DSM and Orthomosaic

ANALYSIS

In Pix4Dmapper, precise GPS/IMU data can assist processing and decrease processing time. The DSM and orthomosaic were implemented into the client's customized GIS, where a report with the obstruction locations was produced and given to workers in the field within 24 hours.



The reconstructed 3D point cloud



The corridor flight plan



The DT-18

Client Reference

SHOWCASE COURTESY OF:



Pix4D SA

EPFL Innovation Park
Building D
1015 Lausanne
Switzerland

General inquiries: info@pix4d.com

Sales inquiries: sales@pix4d.com

Support inquiries: support@pix4d.com

Phone: +41 21 552 05 90

www.pix4d.com

Follow us on

