



Where software concepts come alive™

### Business Domain

Geospatial Sector

### Project Type

Drone Data Processing Solution,  
Dedicated Team, Tech Partnership

# A Large Construction UAV Surveying Company Saved 30% of Project Costs with an Expert Drone Data Processing Solution

## Client

The largest European company with a specialization in UAV surveying and mapping for construction sites and urban planning.

## Project

Forming a team of qualified specialists for expert drone imagery processing to significantly decrease processing time and optimize the project budget.

## Objective

Switching from drone imagery self-processing to a third party while maintaining the same data security level, saving up to 30% of project costs, and speeding up the project time by 75%. Other target metrics are:

- 8k images for one area of interest
- 1-week turnaround time
- Outputs: point cloud, DTM, and Orthomosaic, all split into tiles of 100m
- 1cm resolution for Orthomosaic

## Team Reinforcement

A scalable dedicated team was formed to ensure the integrity of the drone datasets and data quality control.

Apart from data processing, the entire team helped to troubleshoot camera positions, automatic detection of blurred images, and other blips the Client would have to navigate on its own with self-processing.

# Challenge

In every worksite, including construction, surveying companies often reach a point where their datasets become too large and too frequent to handle. That drastically limits their ability to participate in more projects, grow the customer base, and generate more revenue

At this point, the challenge is to switch from self-processing to expert processing, the niche technical know-how of which can ensure accurate outputs in the form of 3D models, DTM and DSM models, etc. Apart from covering the lacking expertise, the Client can make considerable savings. The workload is volatile, so having their in-house team of specialists is way more expensive than outsourcing.

## Quick Facts

- ✓ 130+ aerial datasets processed + high-quality and accurate outputs delivered
- ✓ Reduction of the Client's workload with ready UAV data processing and analysis
- ✓ Thousands of dollars are saved since there is no need to buy specialized equipment and expensive software or to hire GIS experts

### Technologies

Agisoft Metashape / Pix4D / Python

# Solution

## ★ 01

More construction companies that rely on the Client's services can get actionable insights from UAV surveying and apply them to their business needs.

## ★ 02

The next-gen level of urban planning provided with more accurate input and post-analysis data by drones compared to satellite images.

## ★ 03

The Client can use up to 75% of saved time for initiating more projects.

## ★ 04

An entire dedicated team works on the datasets to ensure the highest level of accuracy and quality possible.



## Client Reference



*Intetics was able to form a great team of qualified specialists. The automation significantly decreased the processing time and cut the budget by 30%. Also, they have provided impressive scalability depending on our demand.*

**VP R&D**

## Benefits and Results

- ★ The Client found a reliable expert remote drone data processing partner.
- ★ Project costs were optimized since there is no need to buy specialized equipment and expensive software or hire GIS experts.
- ★ Outputs: point cloud, DTM, and Orthomosaic, all split into tiles of 100m.
- ★ The team created automated workflows to significantly reduce the turnaround time and increase the flexibility of the delivery schedule.