



**YellowScan** | Designed to Innovate.

## SUCCESS STORY

# Civil Engineering

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*Thanks to YellowScan Vx-15, we can now be a major player in UAV LiDAR survey services in Indonesia, provide accurate data correlated with the environmental constraints we face here, and intervene quickly on urgent projects.*

Arnaud Denisot, Director,  
MSDI & Bali Drone Production



**Company:** MSDI, Specialized mapping branch from PT. Bali Drone Production

**Website:** [www.msdi.co.id](http://www.msdi.co.id)

**Country:** Bali, Indonesia



UAV USED  
DJI M600



SOLUTION  
Vx-15

## Business need.

I wanted to offer new top-of-the-range services to my future customers, to extend my range of services and to make my company grow in the industrial field. The major problem in Indonesia is the dense vegetation, vast terrain, often rugged and inaccessible.

The technical means and equipment I owned did not allow me to provide quality data for my clients. LiDAR therefore quickly became an obvious choice for a new mapping solution at MSDI.

Recently, I was asked by a palm oil company to urgently map their plantations for a new mine to be set up. I had to pick-up where another mapping company had failed to capture all data as their LiDAR was out of order.

## Solution.

For this last-minute project, we used YellowScan Vx-15 to provide quality data under vegetation.



## SUCCESS STORY

# Results

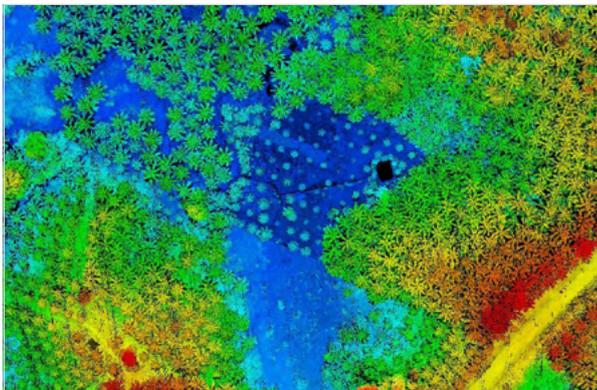
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### Acquisition.

Generate DTMs, contours, and DSMs to set up a new mine replacing the current palm oil exploitation.



*LiDAR Point cloud of the surveyed area*

### Results.

60 points/m<sup>2</sup> with excellent coverage under vegetation.

### Benefits.

- **Easy and fast:** Ease of use and the speed of Vx-15 LiDAR deployment
- **Stand-alone solution:** The Vx-15 does not need to be connected to X modules or external batteries
- **Reliability:** The system is reliable and durable. Every flight has been a success
- **Data accuracy:** Point clouds are clean and accurate
- **Data quantity:** Customer was pleasantly surprised to have more data than he expected

### Mission parameters.

- Number of flights: 28
- Survey size: 1,100 hectares in 4 days
- Flight speed: 5 m/s
- Flight altitude: 90 m AGL



*YellowScan Vx-15 on a DJI M600*