

PORTOFOLIO



AURELIO JEREMI BASTEN SITINJAK

PROFILE

A freshgraduate with a bachelor's degree in geomatics engineering who is competitive and eager to learn and build new abilities in GIS programming, terrestrial mapping, and the mining business.

CERTIFICATION

- 3D Point Cloud Masterclass | Lidar | CloudCompare By Udemy
- Crash Course on Python By Coursera
- Introduction to Git And GitHub By Coursera
- Troubleshooting and Debugging Techniques By Coursera
- Machine Learning With Python (With Honors) By IBM
- TOEFL ITP By ETS (Score: 520)

BACKGROUND EDUCATION



- **INSTITUT TEKNOLOGI SEPULUH NOPEMBER**
Bachelor of Geomatics Engineering
2020 – 2024
GPA : 3.24 / 4.00

WORK EXPERIENCE



- **PT. Adaro Energy Indonesia, Tbk.**
Engineer Intern
July 2023 – Agt 2023



- **PT. Smartech Solutions International**
Pre sales Engineer
September 2024 - December 2024

e-mail : bastensitinjak9@gmail.com | 089523324799 | linkedin : [linkedin.com/in/jeremibasten/](https://www.linkedin.com/in/jeremibasten/)

PROJECT



Collaboration with Terra Drone



Operation of DJI Matrice 500 Drone



Drone Control Device

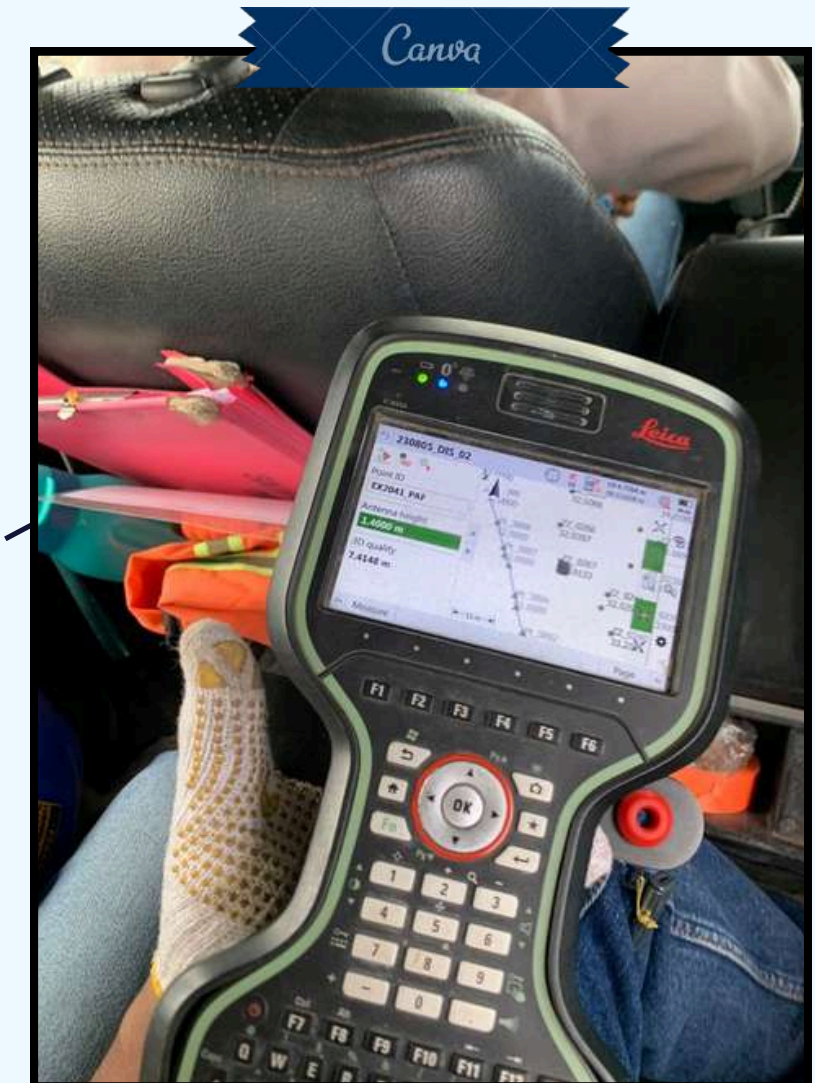
PROJECT



Operating a RTK GPS device



TLS (Terrestrial Laser Scanner) Tool



Leica Captivate CS20 Field Controller

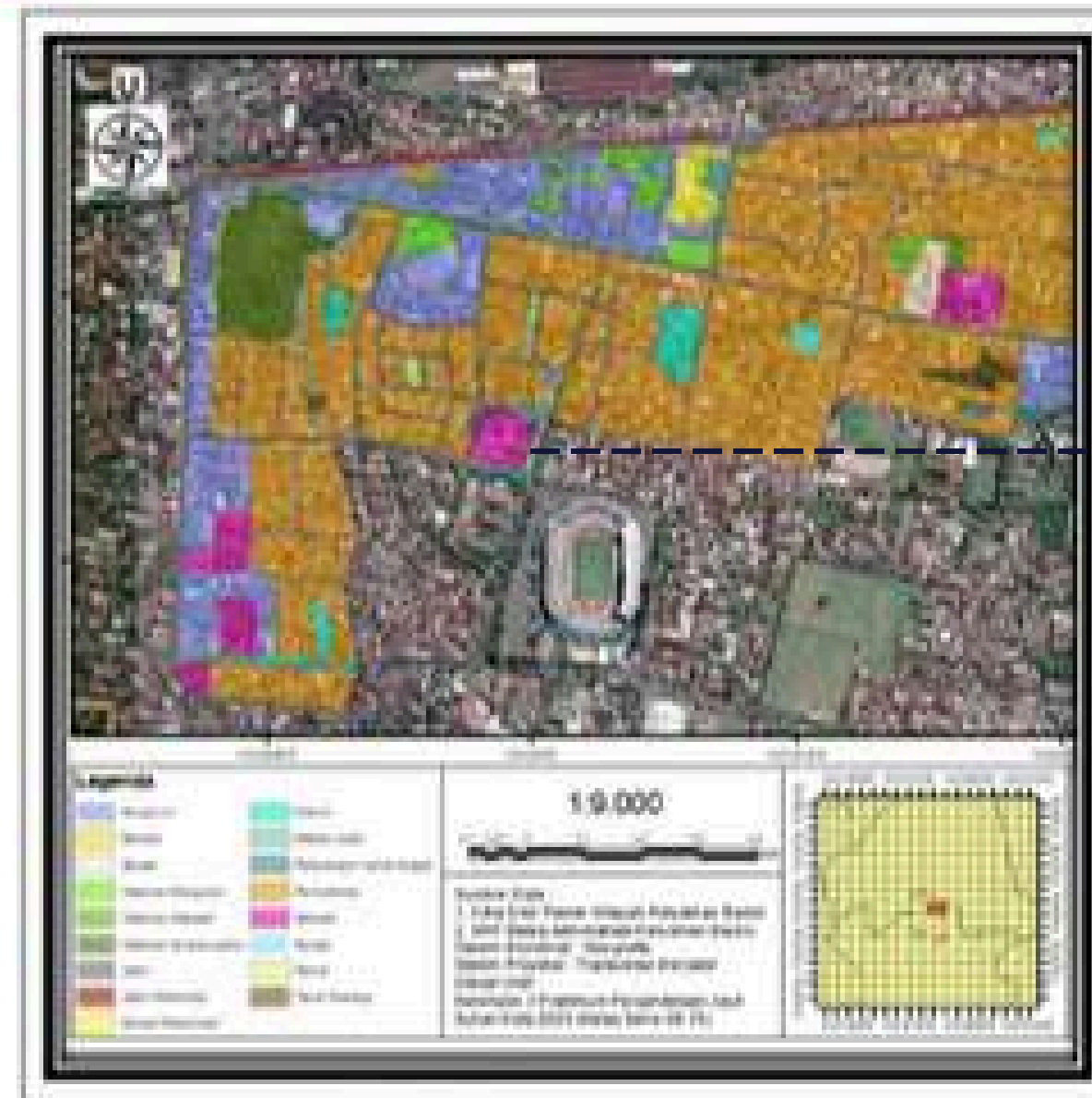
PROJECT



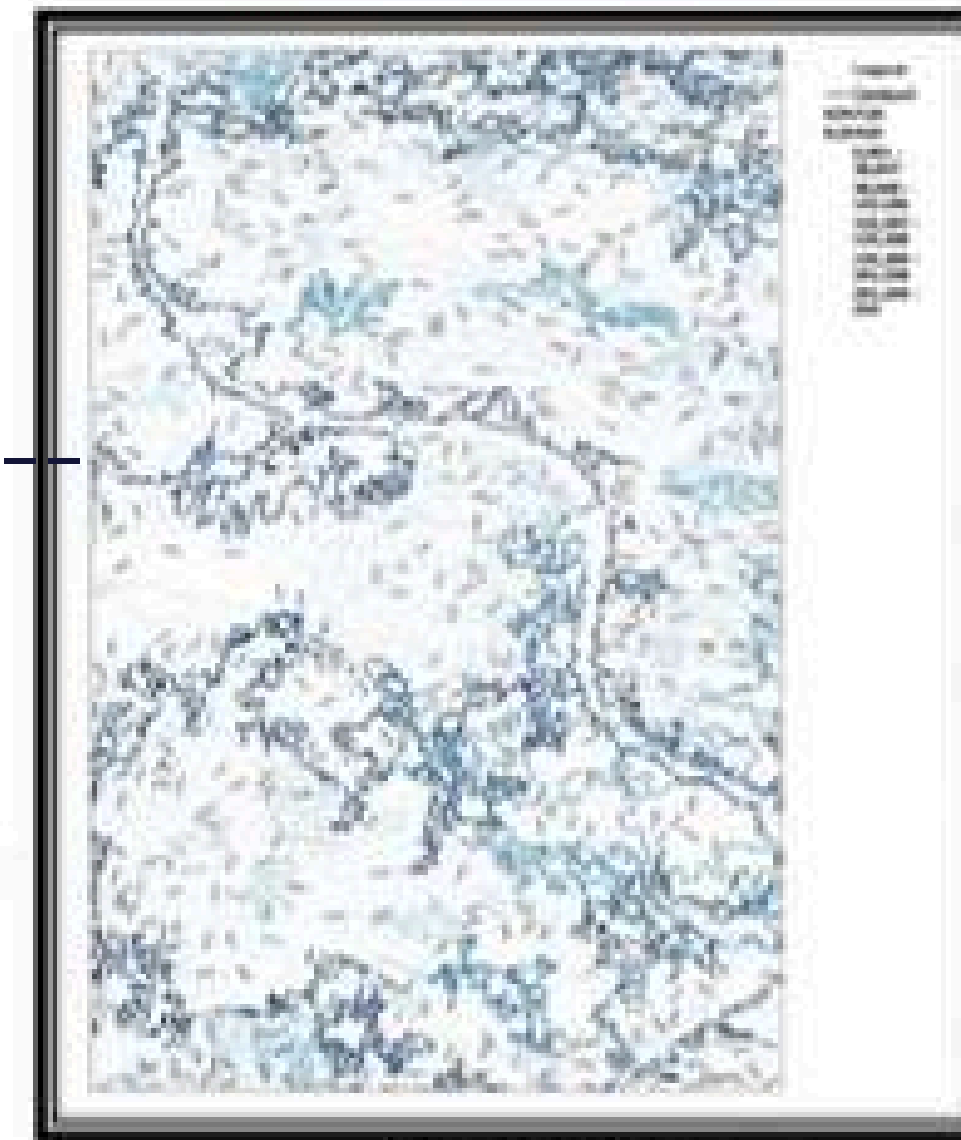
Carrying a backpack lidar and a low-cost handheld lidar device

A land cover Analysis Map in Yogyakarta for segmentizing purposes and Contour Map of its area

PROJECT

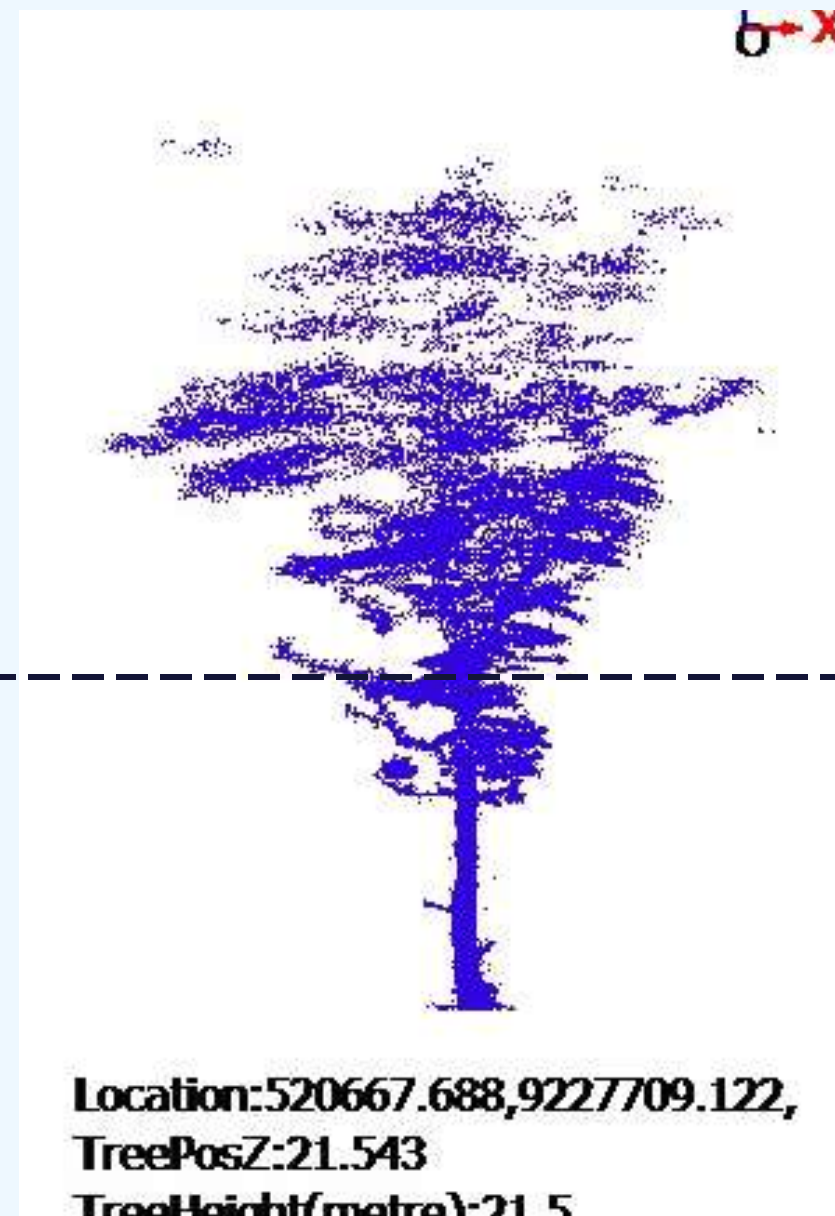
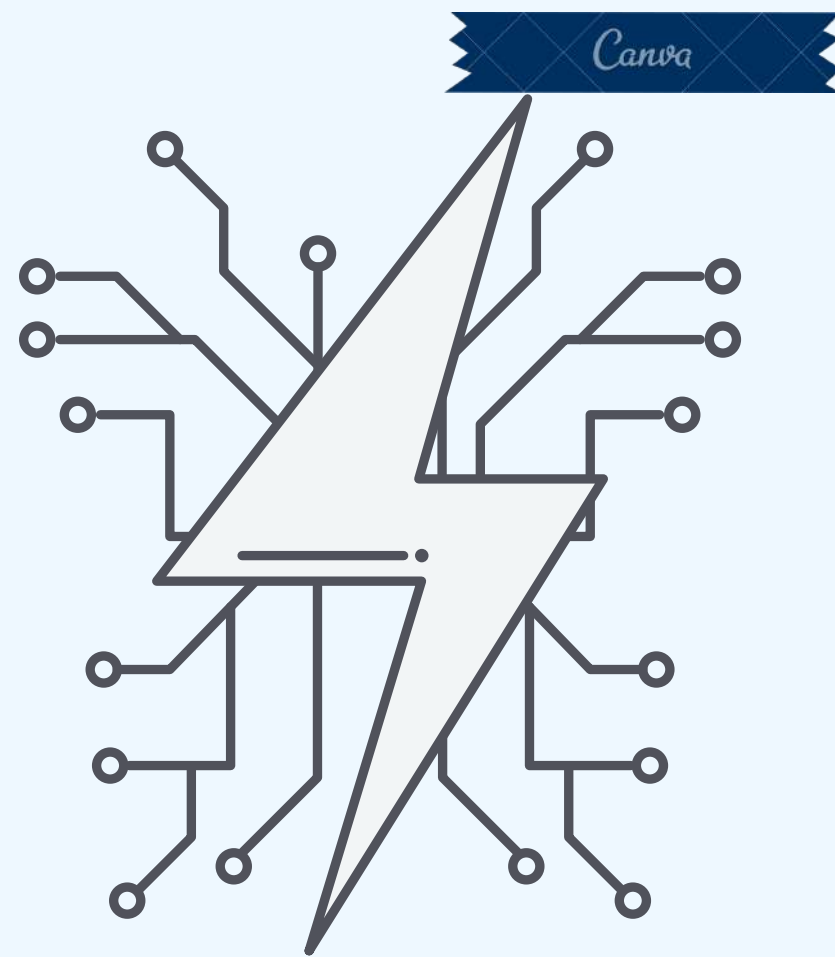


Land Cover Analysis



Contour Map

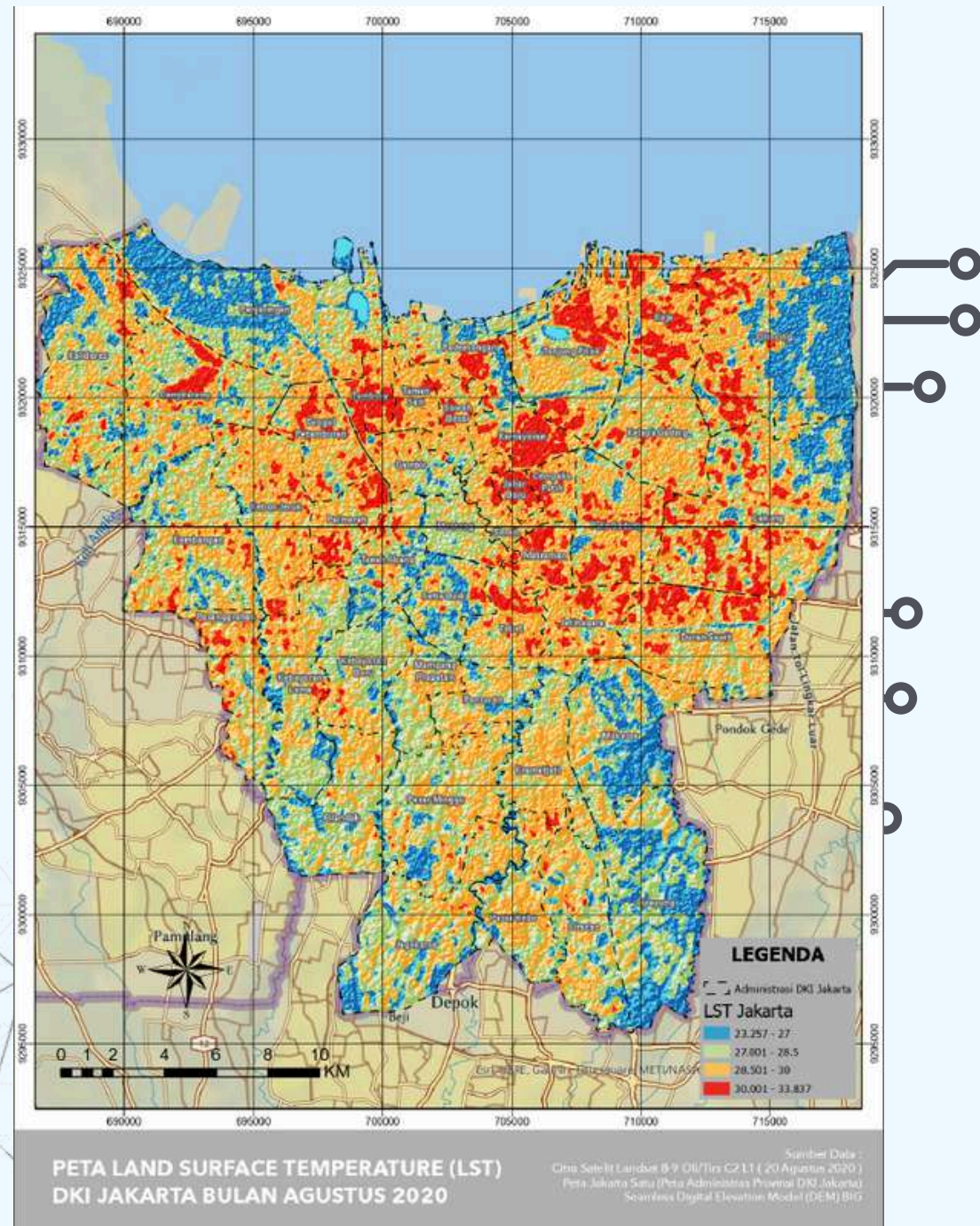
PORTOFOLIO



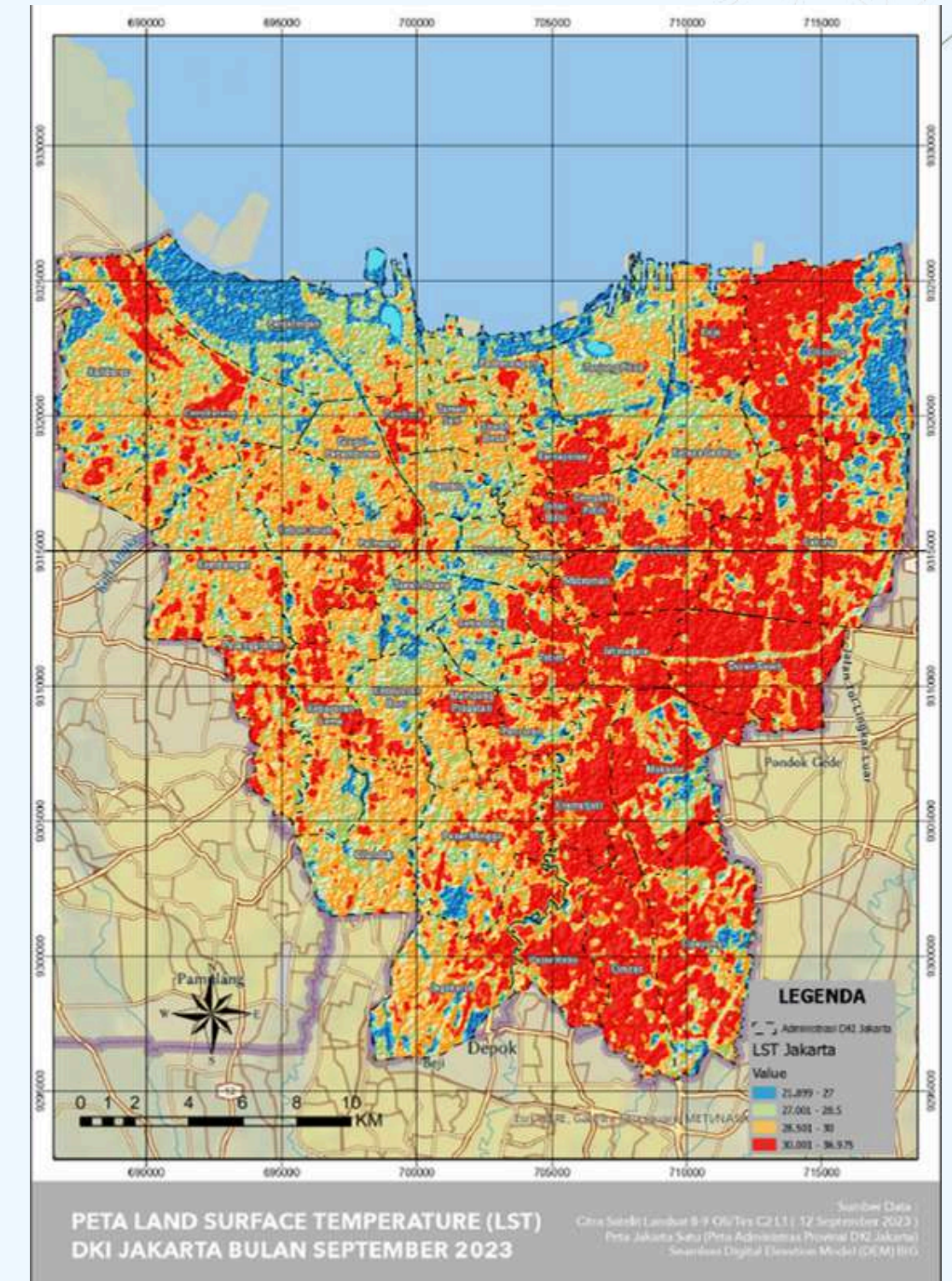
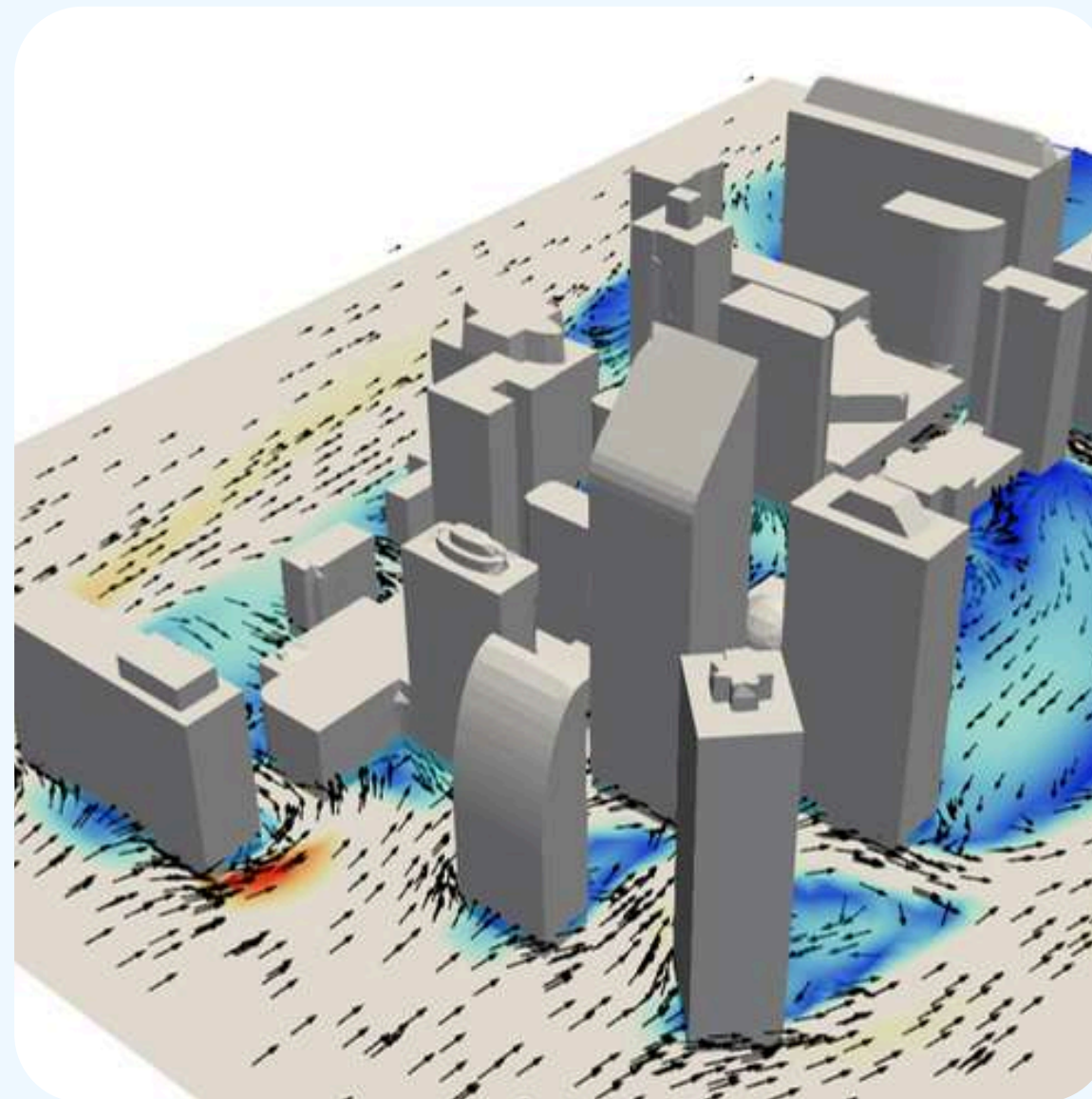
pointcloud result post-oprocessing data by backpack lidar

PORTOFOLIO

Canva

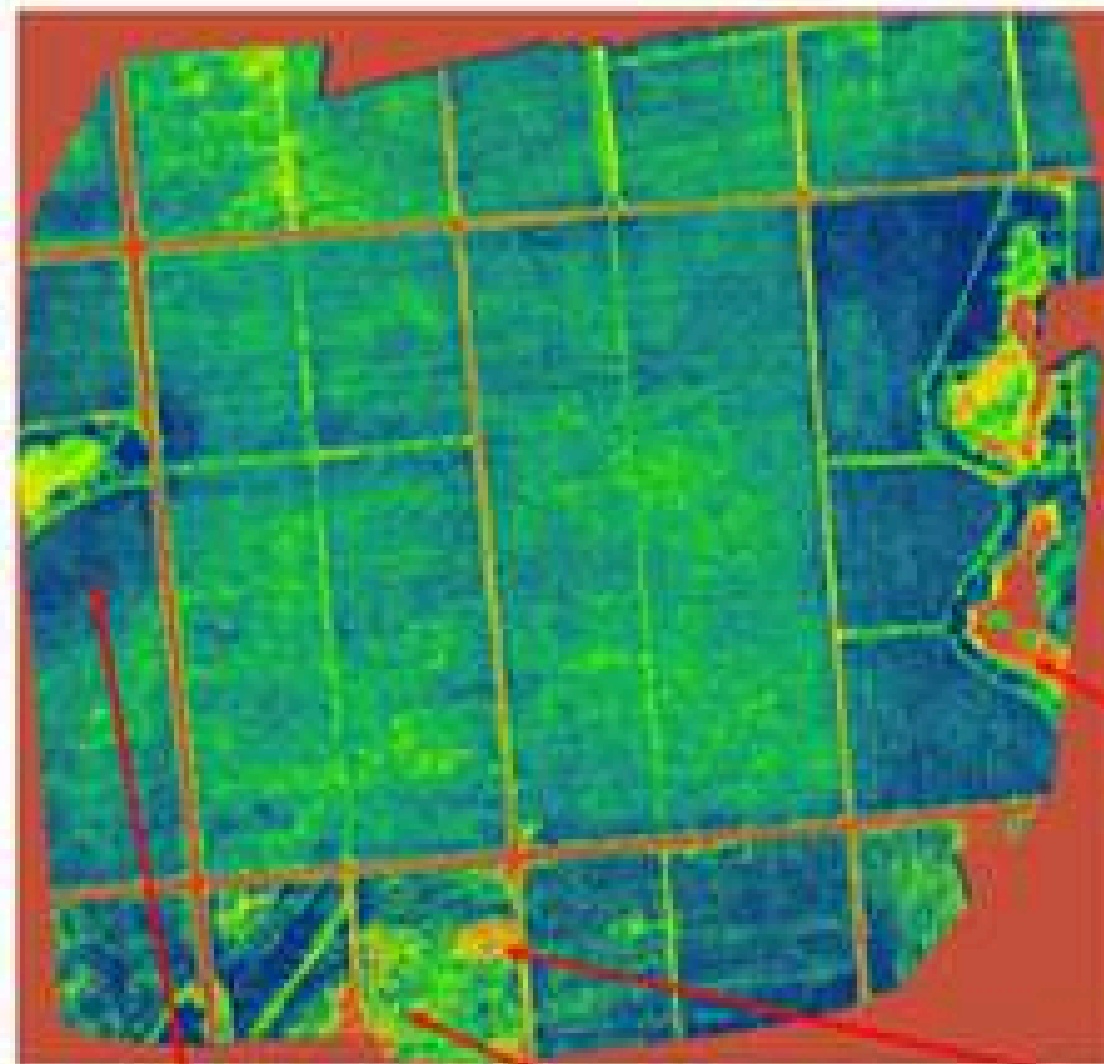


Canva



Data Visualisation of Urban Heat Island using NDVI and BIM (Building Information Modelling) in 3D model

NDVI ANALYSIS FOR SUGARCANE FIELD BASED ON AERIAL PHOTOGRAPHY THAT WE ALREADY TOOK



Blue; healthy

Green; less healthy

Yellow; not healthy (disease)

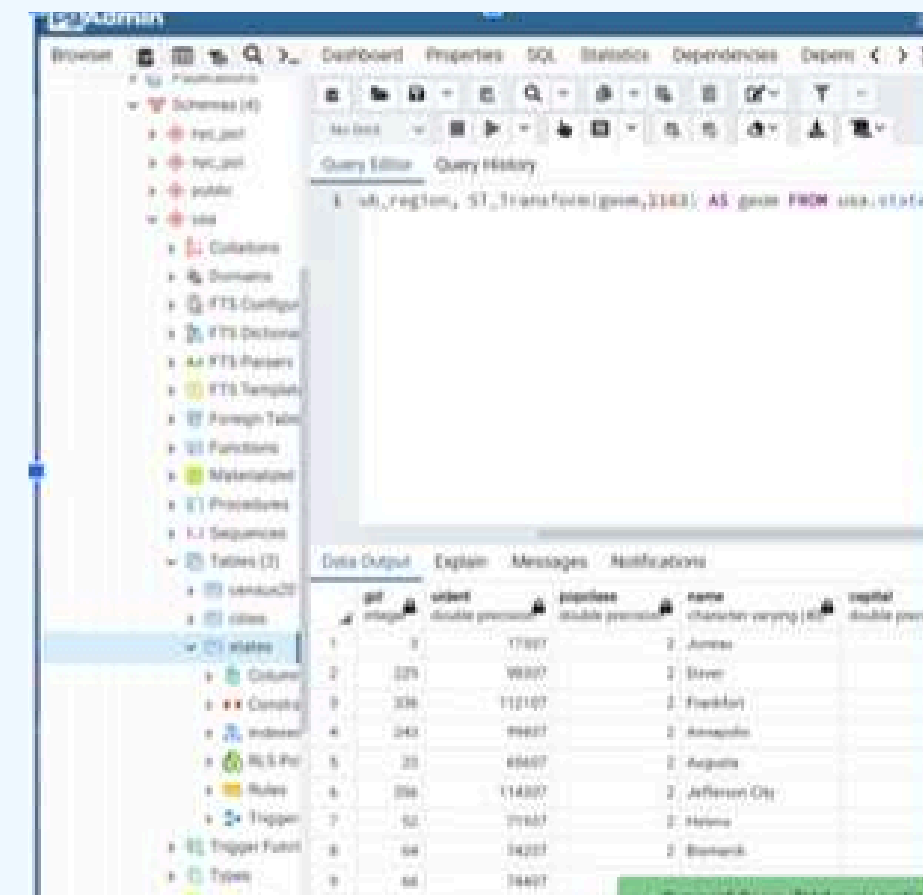
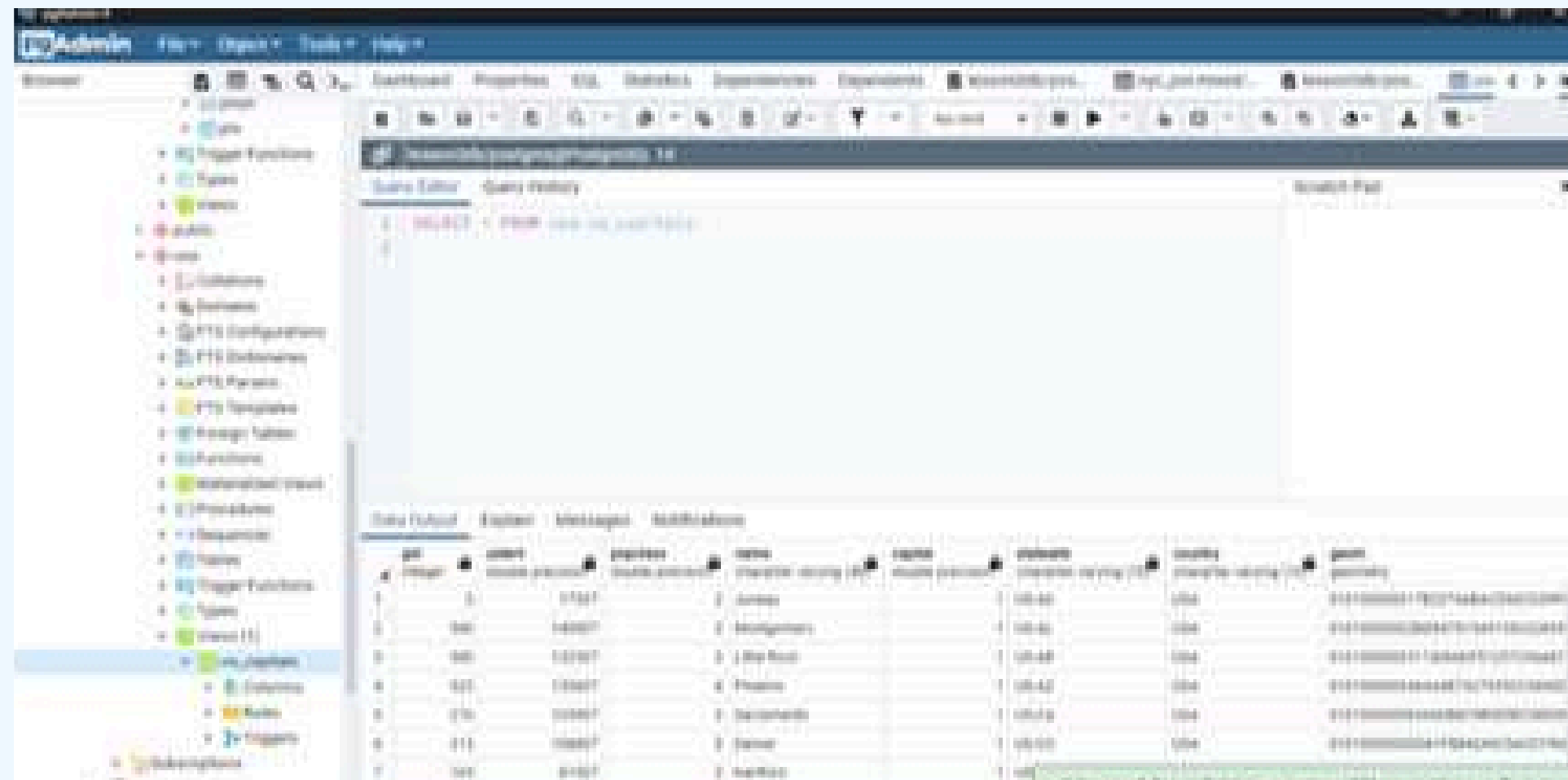
Water



Location: Lampung

1. Using multispectral Micasense RedEdge MX sensor
2. Analysis focused on *Near Infrared* reflectance signal with various transformation vegetation index
3. Pest: **Stem borer**, most damaging pests to sugar cane, not so visible to plain eye as plants still look green and healthy. Up to 75% mortality rate on young shoots
4. Reflectance pattern will be used for colour classification to pinpoint pest affected plants
5. Further analysis for mineral deficiency (micro & macro nutrient deficiencies)





Designing a database query using PostgreSQL

