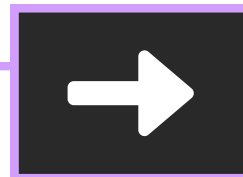


# PORTFOLIO

Motivated Oceanography Science graduate with proven expertise in **remote sensing, GIS, and spatial data analysis** to support **environmental and coastal studies**. Experienced in satellite imagery processing (Sentinel, Landsat), drone - based mapping, and in-situ data integration for coastline monitoring.

MUFTI ALI FARKHAN



+62 851-7439-5339

alifarhkan@gmail.com

[Mufti Ali Farkhan](#)



# About Me



Fresh graduate in Oceanography from Bandung Institute of Technology (ITB) with strong academic and practical experience in hydrographic survey, marine spatial analysis, and environmental monitoring. Skilled in remote sensing, tidal and current data interpretation, and spatial processing. Experienced in fieldwork, drone mapping, and technical reporting through various research and internship projects. Enthusiastic to grow professionally in marine survey and hydrographic data processing roles, with a strong commitment to continuous learning and teamwork.

## Education



**2021-2025** Bandung Institute of Technology  
Bachelor Degree in Oceanography,  
**GPA: 3.55/4.00** (Agt 2021 - Jul 2025)

- Perintis Scholarship Awardee, by Rumah Amal Salman 2021 (150 out of 14.000+ students)
- Practical and Lecturer Assistant in various oceanographic courses (2023-2025) Dean's List 5th and 6th Semester FITB (NR>3.75)
- ITB Ganesha Karsa Award Recipients 2024

## Organizational

- HMO "TRITON" ITB** (Apr2024 - Jan 2025)  
Head of Scientific and Professional Division
- EDUGATE** (Jan 2024 - Jun 2024)  
Head of Academic and curriculum
- KM ITB Multicampus** (Jan 2023 - Nov 2023)  
Staff of internal campus

## Skills

**Language:** Native in Bahasa Indonesia; Upper Intermediate proficiency in English

**Project Management:** Project planning, Proposal writing, Managing resources & cost, Stakeholder management, Timeline execution, Leadership, Public speaking, Presentation

**Field and Environmental Skills:** Licensed drone operation, Environmental monitoring, Basic knowledge of marine species identification and habitat assessment

## AWARDS & ACHIEVEMENTS

- **Speaker in international conference** MSAT 2025 "Navigating the Future: Synergies Between
- **Marine Science, Industry, and Global Challenges for Sustainable Solutions"**
- **3rd Place Winner, Ecooning Essay Competition**, Faculty of Engineering, University of Indonesia, Nov 2024
- **1st Place Winner, Paper Competition** "Medical Laboratory Technologist Olympiad 2024", by Airlangga University, Sept 2024
- **Received funding for PKM-GFT and PKM-RE projects** on climate change and carbon stock (as project coordinator), June 2024
- **3rd Place Winner, Best Paper Winner, and Best Stand Expo Winner, Paper Competition** "Festival Ilmiah Mahasiswa Nasional UNS 2024" by Studi Ilmiah Mahasiswa Sebelas Maret University, March 2024
- **2nd Place Winner, Innovative Poster Competition 2023** by KMDTHV Gadjah Madha University, December 2023
- **Received funding for PKM-PM projects** on water utilization, June 2023
- **1st Place Winner, Innovative Poster 2022** by School of Vocational, IPB University 2022
- **Runner-up 3, Essay Competition** "Geografi Membumi" by Muhammadiyah University Purwokerto 2022

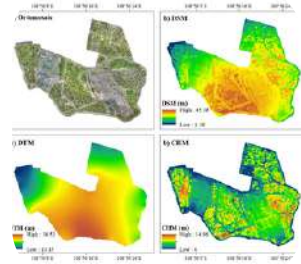
## Tools



## Work Experience



# Recent Project ...



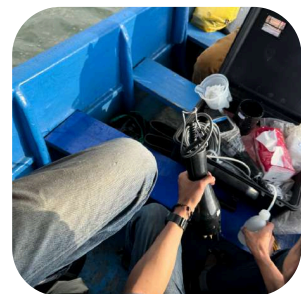
## Mangrove Biomass Estimation in Segara Anakan Cilacap in 2025 and Prediction of its Areal Changes Using Remote Sensing and Machine Learning

(Nov 2024 - Jul 2025)



## ITB X Ministry of Maritime Affairs and Fisheries Research Project

(May 2025 - Jul 2025)



## Estimation of Mangrove Biomass and Carbon Stock for Ecosystem Health Assessment in Coastal Cirebon

(Feb 2025 - Jul 2025)



## TOS.ID: Analysis and Prediction of the Distribution of Mycobacterium Tuberculosis in Bandung City Using Geospatial Intelligence

(Agt 2024 - Spt 2024)



## GEOMAPAN: Analysis of Carbon Stock Dynamics in Mangrove Vegetation in Cirebon Regency and City Using Remote Sensing Data and Machine Learning Implementation (PKM-RE)

(April 2024 - Agt2024)

# Recent Project...



## **GO-MAGIS: GIS Website for Monitoring Carbon Stocks from Mangrove Areas to Support Carbon Trading**

(Jan 2024 - March 2024)



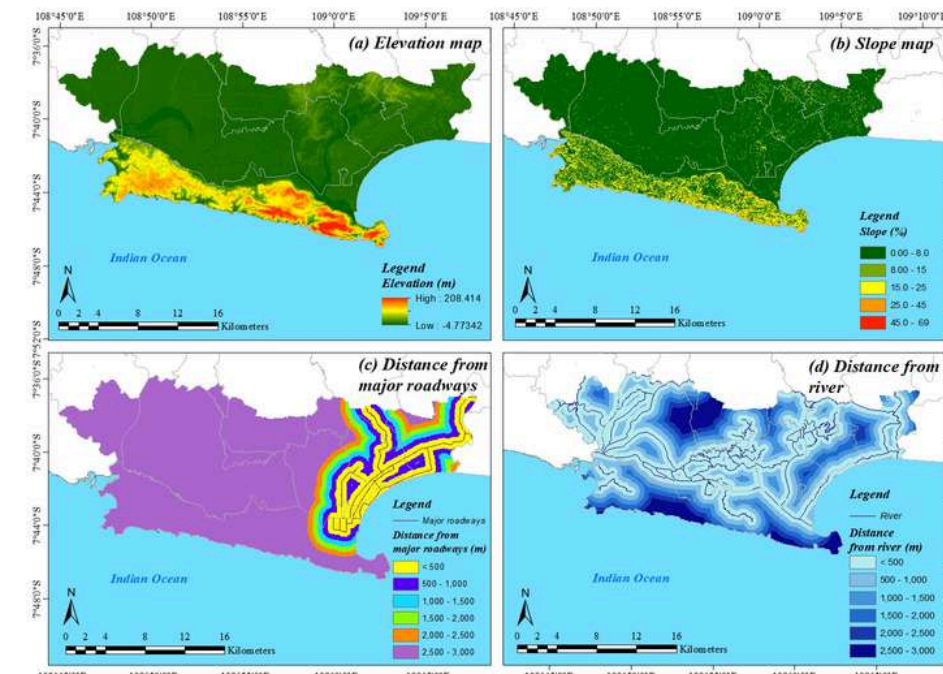
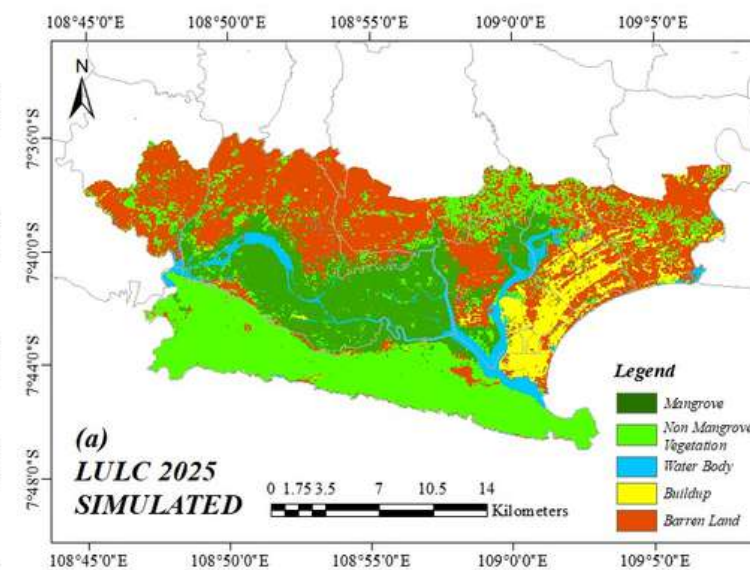
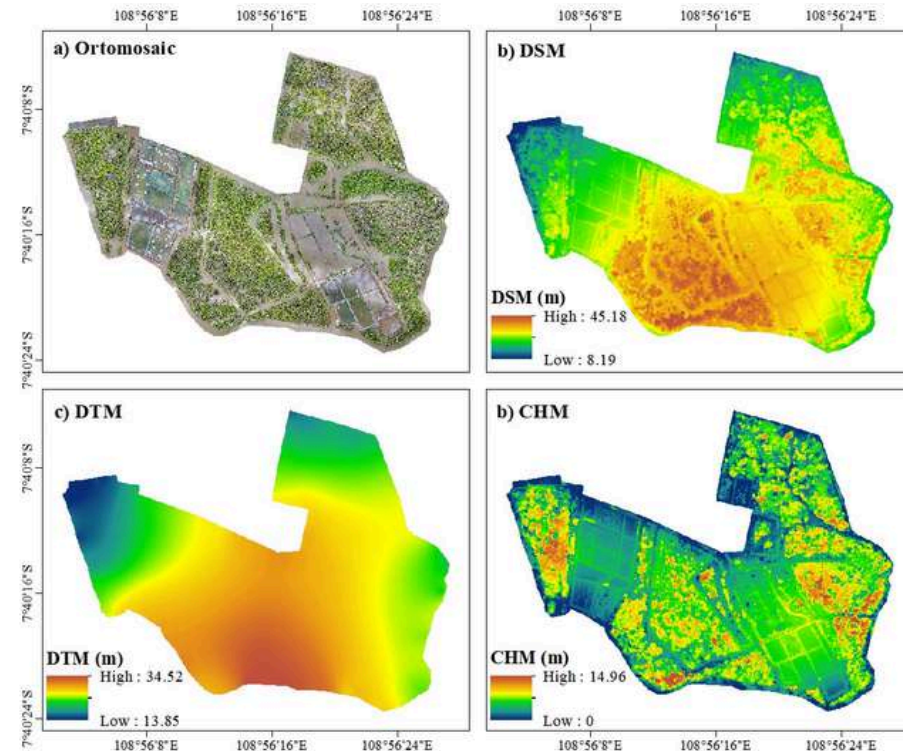
## **[Community Service] The biofilter, is utilized as an appropriate sanitation technology solution in densely populated areas in Cipacing, Sumedang, IDN**

(March 2023 - Spt 2023)

# Mangrove Biomass Estimation in Segara Anakan Cilacap in 2025 and Prediction of its Areal Changes Using Remote Sensing and Machine Learning

Thesis Project (Feb 2025 - Jul 2025)

- Conducted a long-term analysis (2005–2045) of mangrove area change in Segara Anakan, Cilacap, using Landsat imagery, Random Forest classification, and Artificial Neural Networks (ANN) for future prediction.
- Estimated 2025 above-ground biomass (AGB) of mangroves using both allometric equations and drone-based photogrammetry, producing consistent biomass and carbon stock results.
- Integrated field measurements (DBH), remote sensing data, and drone photogrammetry to enhance accuracy in biomass assessment.
- Analyzed tidal characteristics using the T-Tide method to determine tidal constituents and inundation frequency influencing mangrove distribution.



## Tools





# ITB X Ministry of Maritime Affairs and Fisheries Research Project

(May 2025 - Jul 2025)

- Worked as a Research Assistant under a collaborative research program between the Ministry of Marine Affairs and Fisheries (KKP) and Bandung Institute of Technology (ITB).
- Executed aerial monitoring and topographic mapping using a DJI Mavic 4 Pro drone, covering more than 50 hectares across four different locations to support geospatial data accuracy and field validation.
- Integrated ecological, sea water quality, and socio-economic analyses to evaluate the role of mangroves in climate mitigation and community livelihoods.

## Tools



**GAMBARAN UMUM LOKASI**

Tenjo Ayu didominasi oleh Tambak dengan area mangrove yang sangat minim pada daerah pesisir. Area ini tidak dikelola oleh pemerintah dan masyarakat pun tidak melestarikannya.

▪ **DESA TENJO AYU**



**Key Takeaway**

- Mangrove yang berada pada area tambak, memiliki kerapatan yang beragam pada tiap area. Terdapat area yang memiliki kerapatan yang rendah, serta terdapat kerapatan yang tinggi.



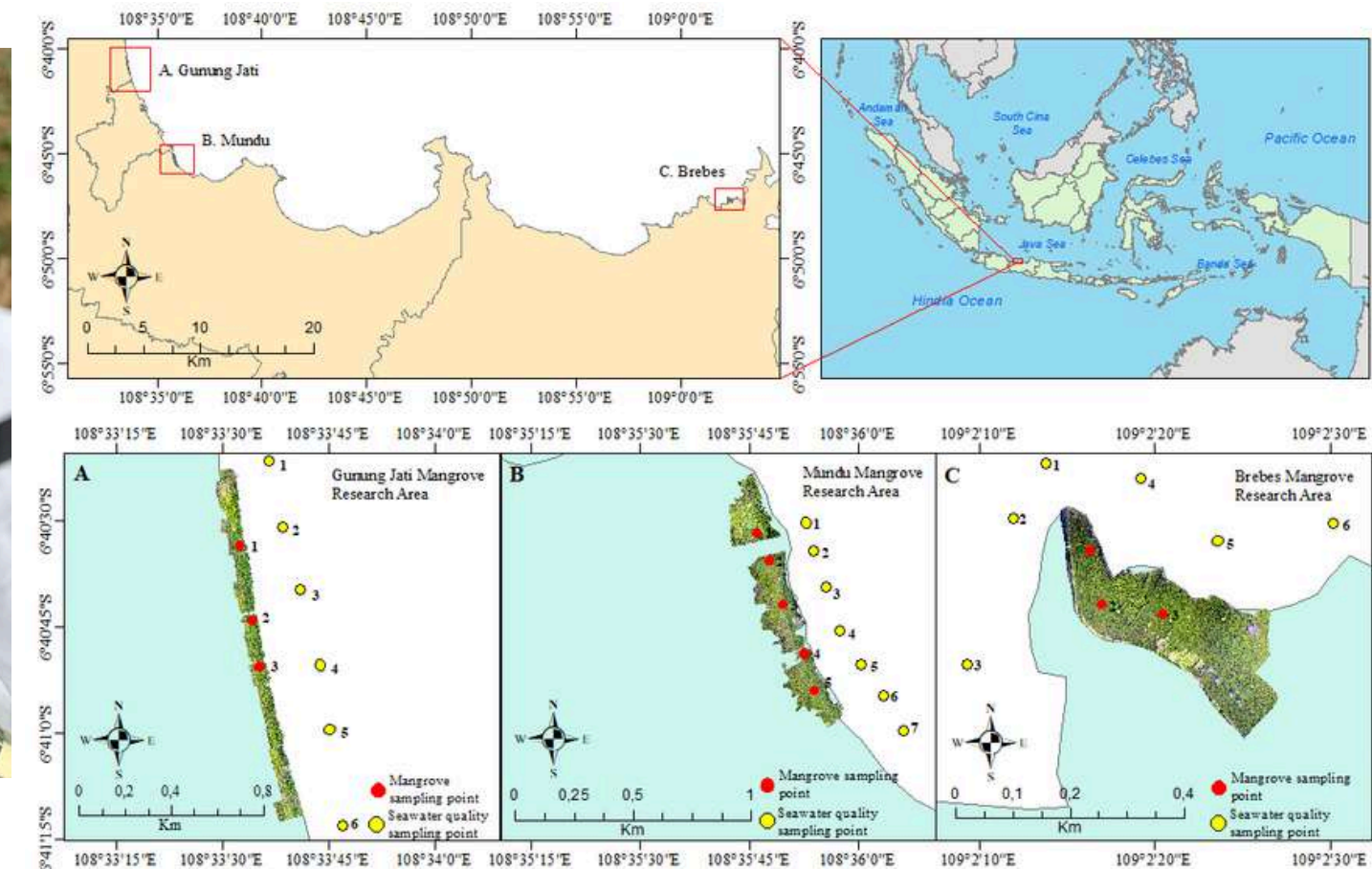


# Estimation of Mangrove Biomass and Carbon Stock for Ecosystem Health

## Assessment in Coastal Cirebon

(Feb 2025 - Jul 2025)

- Integrated Sentinel-2 satellite imagery, drone mapping, and field data to estimate mangrove biomass and carbon stock.
- Conducted spatial analysis using QGIS and ArcMap to classify mangrove health with the Mangrove Health Index (MHI).
- Performed in-situ measurements of mangrove structure (canopy cover, height, diameter, density), seawater quality (temperature, DO, pH, salinity, TDS, ammonia, nitrate, phosphate), and physical oceanographic parameters including tidal elevation and current characteristics to support hydro-environmental assessment.



### Tools

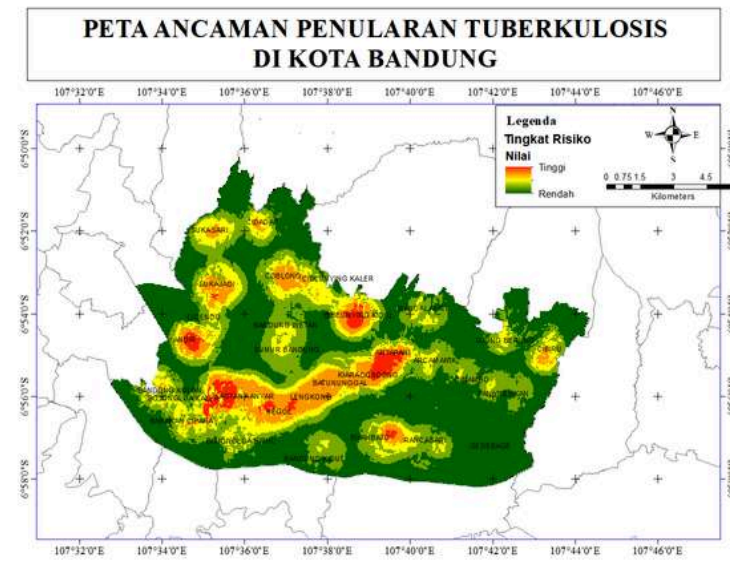
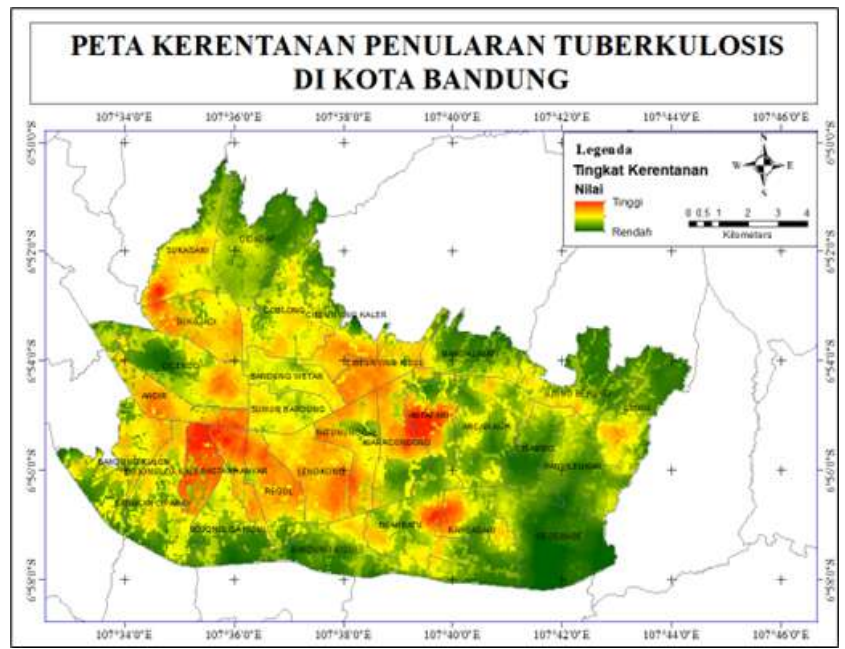
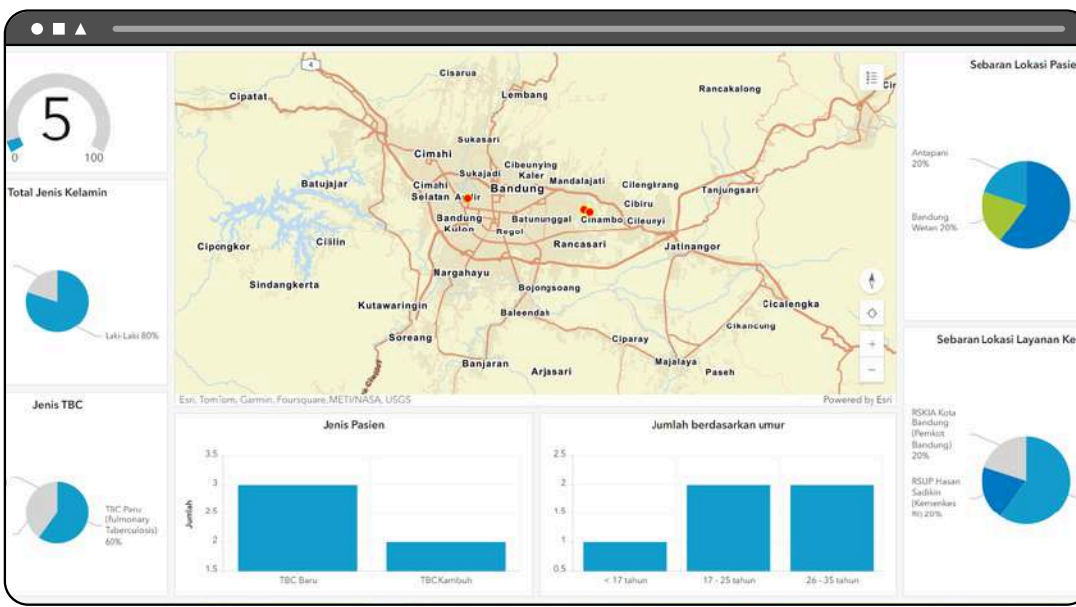
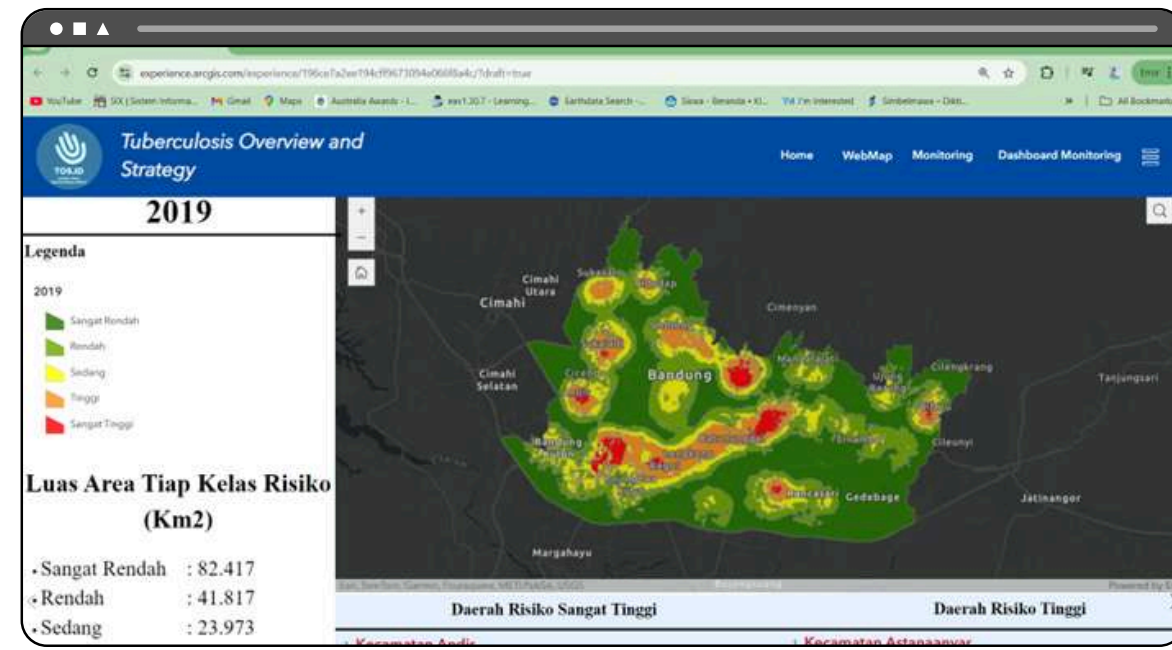


# TOS.ID: Analysis and Prediction of the Distribution of Mycobacterium Tuberculosis in Bandung City Using Geospatial Intelligence (Geoint)

(April 2024 - Agt2024)

- Integrated geospatial data from 2019–2023, including demographic distribution, road networks, public facilities, and settlements, sourced from government databases such as BIG and BPS.
- Conducted spatial analysis of disease distribution, supporting data-driven public health interventions.

## Tools



**MONITORING**

Monitoring cepat, deteksi tepat, perlindungan merata

Fitur monitoring TBC pada TOS.id, platform layanan kesehatan berbasis geospasial, bisa mencakup beberapa komponen yang dirancang untuk mendukung pemantauan, pencatatan, dan pelaporan kasus TBC. Fitur monitoring TBC pada TOS.id, platform layanan kesehatan berbasis geospasial, bisa mencakup beberapa komponen yang dirancang untuk mendukung pemantauan, pencatatan, dan pelaporan kasus TBC.

[Hi Survei](#)

# GEOMAPAN: Analysis of Carbon Stock Dynamics in Mangrove Vegetation in Cirebon Regency and City Using Remote Sensing Data and Machine Learning Implementation (PKM-RE)

(Agt 2024 - Spt 2024)

- Led a 4-member research team under the Ministry of Education's Student Creativity Program (PKM-RE), with funding of IDR 7,750,000.
- Conducted mangrove land cover mapping (1990-2024) using Landsat satellite imagery (Landsat 5, 7, 8) processed in Google Earth Engine (GEE).
- Collected field data using DJI Air 2S drone for high-resolution photogrammetry and generated Canopy Height Model (CHM) through Pix4DMapper.
- Predicted mangrove land cover changes for 2025-2050 using Artificial Neural Network (ANN).
- Estimated carbon absorption potential and projected carbon emissions from industrial growth using population and emissions regression modeling.

## Tools

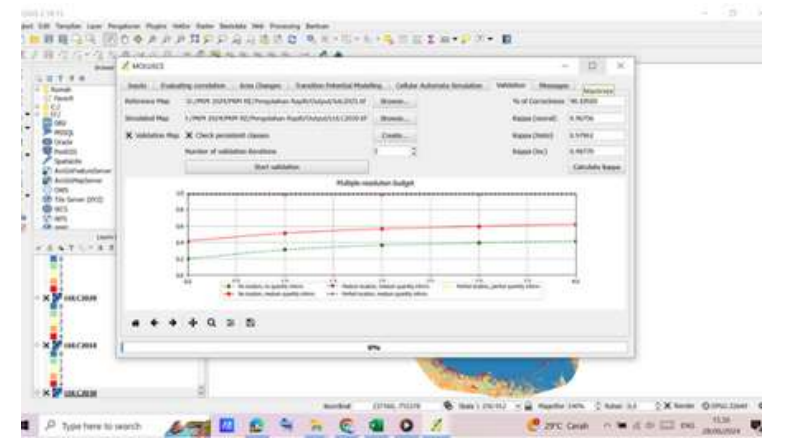
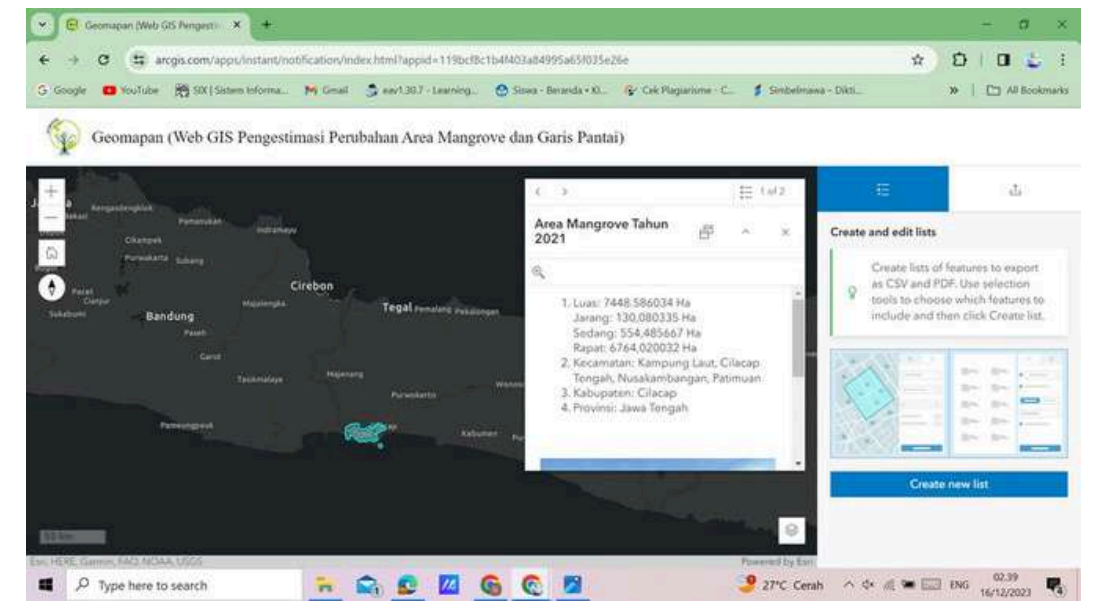
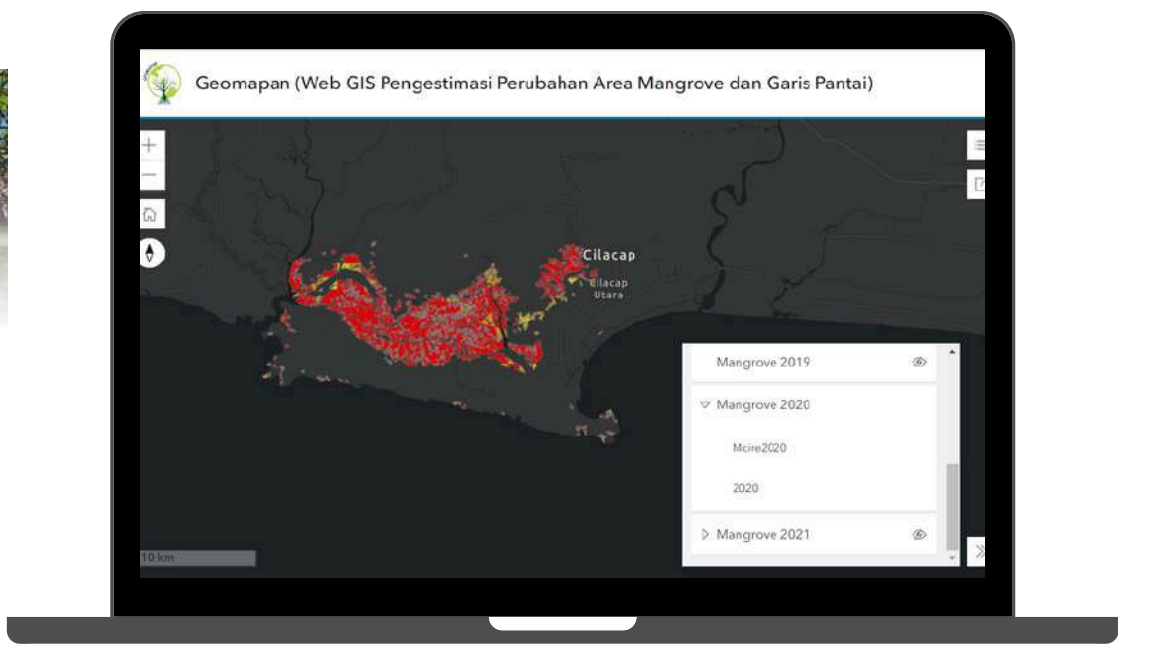


**Geomapan**  
GIS Website Estimating Extent of Mangrove Areas and Coastlines Based on Landsat 8 Satellite Imagery Data for Coastal Environmental Monitoring

- Background**  
13 climate action  
SDGs number 13 about climate action  
Coastal damage  
Geospatial technology
- Overview of GEOMAPAN**  
GEOMAPAN is a GIS website related to monitoring the extent of mangrove areas and coastlines in the regions of Cirebon, West Java and Cilacap, Central Java. The monitoring is conducted through processing Landsat 8 satellite imagery data using USGS and Google Earth Engine integrated within a webGIS platform.
- Purpose**  
Monitoring the extent of mangrove areas and coastline in Cirebon and Cilacap using a webGIS-based information system
- Superiority**  
Multitemporal - continuous  
Minimizes human resources, costs, and can be done anywhere.  
The potential for development is very large (can create applications, add parameter types) multi-temporal using Google Earth Engine which is integrated with WebGIS  
Can be used as a basis for policy making by stakeholders to make more appropriate and sustainable decisions in efforts to preserve coastal ecosystems.
- Method**  
Input Citra Landsat 8 → Image Processing with Google Earth Engine → Integration with arcgis online → WebGIS GEOMAPAN → User
- Result**  
Mangrove area displayed on the web  
• Data processing accuracy reaches 95%  
• There are 8 features that users can use  
• Able to present coastline and mangrove area data complete with total area and area of each density  
• Portability test on 5 web browsers reaches 100%
- Conclusion**  
The information system built by GEOMAPAN is able to predict changes in mangrove areas and coastlines in a multi-temporal manner. The data accuracy results reach a very accurate level.
- Reference**  
• Anders, F.J. and Byrnes, M.R. (1991): Accuracy of shoreline change rates as determined from maps and aerial photographs. Shore and Beach, 59(1): 17-26  
• Boak, Elizabeth H., dan Jan L. Turner, 2006, Shoreline Definition and Detection: A Review, Journal of Coastal Research, 22(4): 688-703.  
• Husrin, S. (2013): Survei Perubahan Garis Pantai Tulamben. Laporan Teknis Penelitian Sumber Daya Pesisir LPDPK, Balai Zoog KP KKP.

Support By: esri

Member:  
• Aris Salsabila Arifin - 12921027  
• Mufti Ali Farhan - 12921032  
• Ni Luh Putu Jiesta - 12921072



# GO-MAGIS: GIS Website for Monitoring Carbon Stocks from Mangrove Areas to Support Carbon Trading

(Jan 2024 - March 2024)

- Developed GO-MAGIS, a GIS-based web platform that maps mangrove areas spatially and temporally, estimates carbon stocks, and calculates potential carbon trading revenue in Segara Anakan, Cilacap.
- Estimated annual CO2 absorption and potential carbon trading value, achieving the highest projected revenue of \$46.96 million USD in 2022 based on International Monetary Fund (IMF) carbon pricing standards.
- Conducted market analysis on blue carbon initiatives and their economic potential for carbon trading.

### Tools

```

var table = Table.projects/ee-geomapgis/assets/Mangrove2022
var citra = ee.ImageCollection('LANDSAT/LC08/C01/T3_SR')
  .filterBounds(table)
  .filterDate('2019-01-01', '2022-12-31')
  .select('B1', 'B2', 'B3', 'B4', 'B5', 'B6', 'B7')
  .filter(ee.Filter.lt('CLOUD_COVER', 30));

// Print ImageCollection
print(table, 'Image Collection Cilacap 2022');
Map.centerObject(table, 10);

// Potong Citra
var citra_medan = citra.median();
var citra = citra_medan;

// Perhitungan NDVI
  
```



## FILM 2024 GO MAGIS

### IMPLEMENTASI WEBGIS DALAM ANALISIS STOK KARBON PADA VEGETASI MANGROVE MENGGUNAKAN METODE ALOMETRIK GUNA Mendukung CARBON TRADING

(Studi Area: Segara Anakan Cilacap, Jawa Tengah)

**1 Latar Belakang**

- Sektor industri menyumbang sebesar 33,53% emisi karbon
- 1 Ha Mangrove mampu menyerap hingga 39,75 Ton CO2/ha/ tahun
- Menjaga kenaikan suhu global di bawah 2 derajat Celsius di atas level pra-industri
- Meningkatkan target penurunan gas rumah kaca dari 29% menjadi 31,9% tahun 2030

**2 Tujuan**

- Menghitung luas area mangrove di Cilacap periode 2019-2023 menggunakan citra satelit Landsat 8.
- Menghitung stok karbon yang terkandung dalam hutan mangrove di Cilacap
- Membuat WebGIS untuk memberikan informasi mengenai luas area mangrove, stok karbon, dan harga jual karbon
- Mengimplementasikan webGIS GO-MAGIS dalam mendukung kegiatan carbon trading

**3 Metode**

Pelaksanaan: 2 - 31 Januari 2024

- Input citra Landsat 8
- Image Processing in GEE
- Data Validation & Field Survey
- Integration with ArcGIS Online
- User

**4 Hasil**

Luas vegetasi Mangrove tiap kerapatan (Ha)

Tahun	Luas Mangrove (Ha)	Stok Karbon (Ton)	Days Serum (CO2 (Ton))	Harga Jual (USD)
2019	7.671.314,3	133.960.199,5	184.300.281	4667.709,54
2020	7.776.707,5	135.700.114	186.460,761	4673.004,02
2021	7.714.091,2	134.485.892,8	185.380,763	4648.762,83
2022	7.815.148,0	136.534.015	187.648,42	4696.210,51
2023	7.751.741,9	135.700.466,5	186.240,508	4660.131,96

**5 Keunggulan**

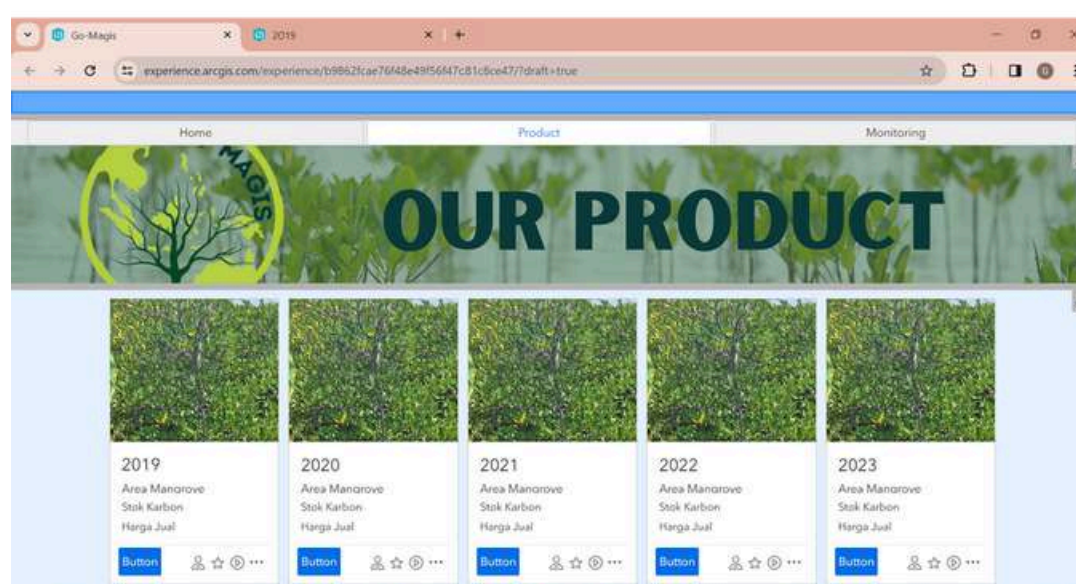
- Data Multitemporal
- Akurasi mencapai 95%
- Memberikan estimasi Stok Karbon dan harga jual
- dapat menjadi acuan stakeholder untuk pengambilan keputusan

**6 Kesimpulan**

- Luas area mangrove mengalami perubahan tiap tahunnya dan terluas pada tahun 2022 sebesar 7819,35 Ha.
- Nilai stok karbon terbanyak terdapat di tahun 2022 mencapai 133.912.650 TC.
- GO-MAGIS merupakan teknologi berbasis webGIS yang mampu mengintegrasikan kebutuhan pasar karbon.
- Implementasi WebGIS didasarkan pada analisis PESTEL untuk melihat kondisi eksternal.

**7 Referensi**

Scan Here

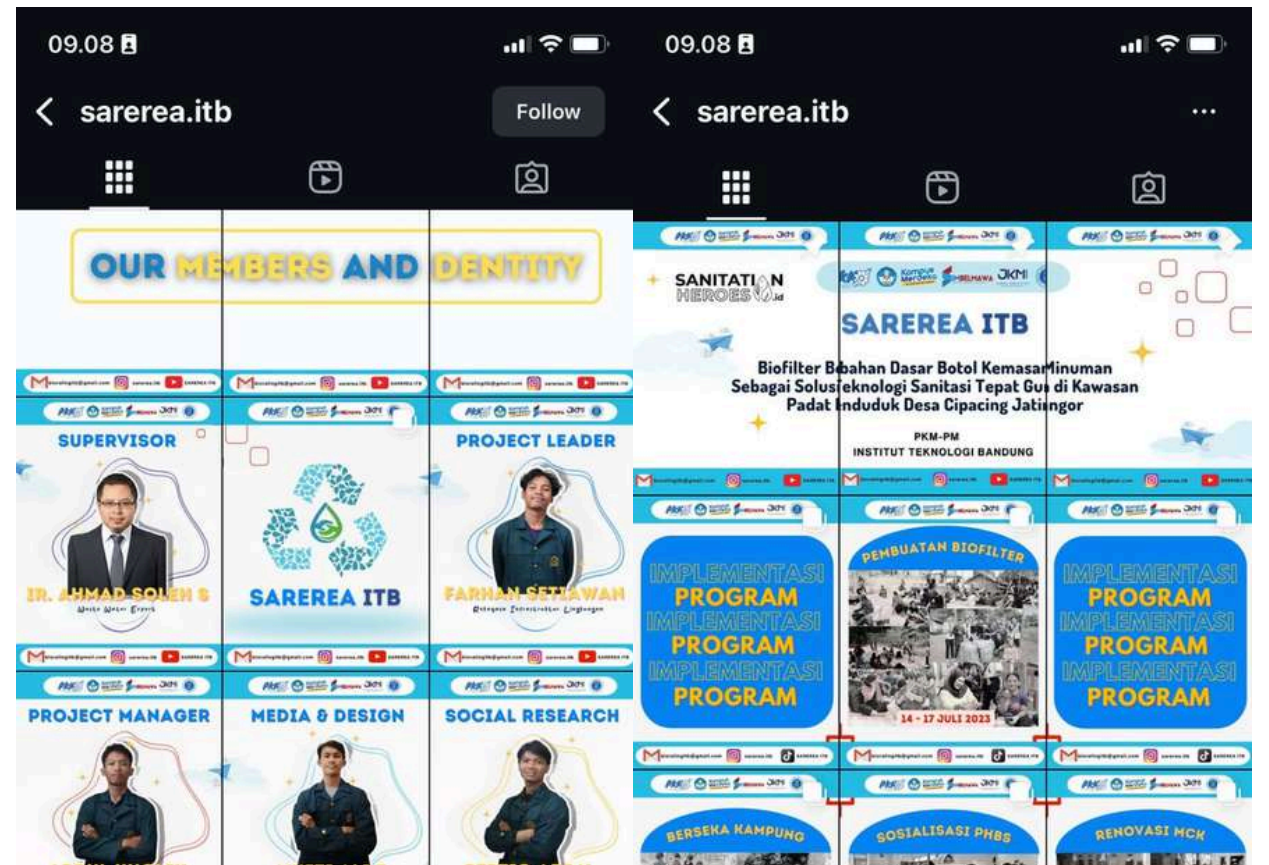


# [Community Service] The biofilter, is utilized as an appropriate sanitation technology solution in densely populated areas in Cipacing, Sumedang, IDN

(March 2023 - Spt 2023)

- Implemented the BioRaLing (Biofilter Ramah Lingkungan) project to improve access to safe sanitation for 100-200 residents of Dusun Cipacing, Jatinangor.
- Led the construction of 1 communal sanitation facility (MCK) and installation of BioRaLing units, utilizing eco-friendly and cost effective materials.
- Conducted 5+ community socialization events and multi-stakeholder forums, promoting safe sanitation practices and hygiene education (PHBS) to 100-200 participants.
- Produced impactful deliverables, including: 1 technical guidebook, 1 business model for the sustainability of safe sanitation access programs, 5+ educational materials (modules, posters, and videos) and Publications in online platforms.

**Tools**



# Portfolio CERTIFICATE...



Institut Teknologi Bandung

Fakultas Ilmu dan Teknologi Kebumian  
Piagam Penghargaan Dekan FITB ITB untuk Prestasi Akademik

Piagam diberikan kepada :

**Mufti Ali Farkhan**  
NIM. 12921032

Program Studi: Oseanografi  
Atas prestasi akademiknya dengan Nilai Rata-rata  $\geq 3,75$  pada Semester 2 - 2023/2024

Bandung, 1 Oktober 2024

Dekan,

Dr. Irwan Meilano, S.T., M.Sc.  
NIP. 197405181998021001

(Piagam Penghargaan ini diberikan kepada mahasiswa Program Sarjana (S1) yang mendapatkan nilai rata-rata  $\geq 3,75$  untuk beban mata kuliah yang diambil pada semester tertentu  $\geq 15$  sks. Nilai minimum masing-masing mata kuliah B dan Tidak mengulang mata kuliah)



Institut Teknologi Bandung

Fakultas Ilmu dan Teknologi Kebumian  
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UNIVERSITAS GADJAH MADA  
SEKOLAH VOKASI  
DEPARTEMEN TEKNOLOGI HAYATI DAN VETERINER  
PIAGAM PENGHARGAAN

NO: 1982.45/UNI/SV.2/SR/DTHV/2023  
DIBERIKAN KEPADA

**Mufti Ali Farkhan**

Sebagai  
**JUARA II LOMBA POSTER**  
INNOVATIVE COMPETITION

Dengan Tema "Pembangunan Berkelanjutan (SDGs) di era Society 5.0" yang diselenggarakan oleh Keluarga Mahasiswa Departemen Teknologi Hayati dan Veteriner, Universitas Gadjah Mada Pada 1-18 Desember 2023

KETUA DEPARTEMEN  
TEKNOLOGI HAYATI DAN  
VETERINER  
  
Prof. Dr. orb. Ida Tjahjati, M.P.  
NIP. 196412281999032001

KETUA PELAKSANA  
  
Andini Cahya Alfany  
NIM. 2249978USV/21366



**SERTIFIKAT**  
No : 011/A/DPM SV IPB/V/2022

Diberikan Kepada:

**Mufti Ali Farkhan**

Atas partisipasinya dan dinyatakan sebagai:

**Juara 1 Innovative Poster**

Dalam Festival Legislasi Dewan Perwakilan Mahasiswa Sekolah Vokasi IPB periode 2021/2022 yang diselenggarakan pada tanggal 29 Mei 2022

Dekan Sekolah Vokasi  
IPB University  
  
Prof. Dr. Ir. Arief Darjanto, M.Ec.  
NI P. 196106181986091001

Ketua Dewan Perwakilan Mahasiswa  
Sekolah Vokasi IPB University  
  
Bathara Mandala Wibowo  
NIM. J0305201158

Ketua Panitia  
Festival Legislasi 2022  
  
Muhammad Fadhel Hidayat  
NIM. J031211115

KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET, DAN TEKNOLOGI  
UNIVERSITAS SEBELAS MARET  
Jalan Insinyur Sutami Nomor 36A Ketingan Surakarta 57126

**SERTIFIKAT**

Nomor: 1457.2/UN27/KM.05.04/2024  
Diberikan kepada:

**Mufti Ali Farkhan**

Institut Teknologi Bandung

sebagai

**Juara 3 Semar LKTIN**

dalam rangkaian acara Festival Ilmiah Mahasiswa (FILM) 2024 yang diselenggarakan pada tanggal 7-10 Maret 2024 di Universitas Sebelas Maret Surakarta

Surakarta, 10 Maret 2024

Plt. Wakil Rektor Akademik dan  
Kemahasiswaan  
Universitas Sebelas Maret  
  
Prof. Dr. Ir. Ahmad Yunus, M.S.  
NIP 196107171986011001

Pembina SIM UNS  
  
Prof. Dr. Eddy Heraldy, M.Si.  
NIP 196403052000031002

KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET, DAN TEKNOLOGI  
UNIVERSITAS SEBELAS MARET  
Jalan Insinyur Sutami Nomor 36A Ketingan Surakarta 57126

**SERTIFIKAT**

Nomor: 1457.2/UN27/KM.05.04/2024  
Diberikan kepada:

**Mufti Ali Farkhan**

Institut Teknologi Bandung

sebagai

**Stand Terfavorit Semar LKTIN**

dalam rangkaian acara Festival Ilmiah Mahasiswa (FILM) 2024 yang diselenggarakan pada tanggal 7-10 Maret 2024 di Universitas Sebelas Maret Surakarta

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KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET, DAN TEKNOLOGI  
UNIVERSITAS SEBELAS MARET  
Jalan Insinyur Sutami Nomor 36A Ketingan Surakarta 57126

**SERTIFIKAT**

Nomor: 1457.2/UN27/KM.05.04/2024  
Diberikan kepada:

**Mufti Ali Farkhan**

Institut Teknologi Bandung

sebagai

**Best Paper Semar LKTIN**

dalam rangkaian acara Festival Ilmiah Mahasiswa (FILM) 2024 yang diselenggarakan pada tanggal 7-10 Maret 2024 di Universitas Sebelas Maret Surakarta

Surakarta, 10 Maret 2024

Plt. Wakil Rektor Akademik dan  
Kemahasiswaan  
Universitas Sebelas Maret  
  
Prof. Dr. Ir. Ahmad Yunus, M.S.  
NIP 196107171986011001

Pembina SIM UNS  
  
Prof. Dr. Eddy Heraldy, M.Si.  
NIP 196403052000031002



**SERTIFIKAT**  
PENGHARGAAN

062/INT/EDU-KEMBARA/V/2025

Diberikan kepada :

**MUFTI ALI FARKHAN**

atas dedikasinya menjadi Volunteer Pengajar Asrama Intensif pada 17 Maret-11 Mei 2025 mata pelajaran **Matematika** dengan total waktu mengajar 32 jam

Bandung, 17 Mei 2025

Rommi adany putra



**SERTIFIKAT APRESIASI**

Nomor: 011/X/OUT/ALK/2025

Dengan rasa hormat dan kebanggaan yang mendalam, sertifikat ini dianugerahkan kepada

**Mufti Ali Farkhan**

atas dedikasi, ketelitian, dan tanggung jawab luar biasa sebagai  
**Proctor Seleksi Nasional Ekshibisi Kompetensi Kecerdasan Artifisial 2025**,  
yang telah diselenggarakan pada 21 September 2025.

Peran Anda dalam menjaga ketertiban, integritas, dan kelancaran jalannya seleksi menjadi fondasi penting bagi terselenggaranya kegiatan berskala nasional ini dengan sukses, jujur, dan bermartabat.

Malang, 10 Oktober 2025

Puja Pramudya, S.T., M.T.

Penanggung Jawab Acara



**SERTIFIKAT**

PENGHARGAAN

diberikan Kepada

**Mufti Ali Farkhan**

Atas partisipasinya sebagai Humas dan Tim Peliputan dalam kegiatan  
Konvensi Sains, Teknologi, dan Industri (KSTI) 2025 di Sasana Budaya  
Ganesa, Bandung pada tanggal 07 - 09 Agustus 2025

Bandung, 09 Agustus 2025  
Kepala Biro Umum, Hubungan Masyarakat, dan Pengadaan Barang dan Jasa



Manifes Zubayr  
NIP. 197101282006041001

**CERTIFICATE OF  
APPRECIATION**

Presented to

**Tim Doa Ibu:**

**MUTFTI ALI FARKHAN**

IN RECOGNITION OF OUTSTANDING PERFORMANCE GETTING

**THIRD PLACE**

In Essay Competition Econeering FTUI 2024

Fakultas Teknik, Universitas Indonesia  
30 November 2024

PROJECT OFFICER

#AdaptiveEngineEarth

**#3**

Supported by **Realfood**

ECONEERING  
FTUI 2024

**SERTIFIKAT**

Dengan Bangga Diberikan Kepada:

**MUFTI ALI FARKHAN**

Atas Partisipasinya Sebagai:

Juara I

METHANOL (Medical Laboratory Technologist Olympiad)  
Tingkat Nasional kategori Lktin yang diselenggarakan secara daring dan luring  
oleh HIMA D-IV Teknologi Laboratorium Medik  
Fakultas Vokasi Universitas Airlangga  
Sabtu, 21 September 2024

DEKAN FAKULTAS VOKASI  
UNIVERSITAS AIRLANGGA  
  
Prof. Dr. Anwar Ma'ruf, drh., M.Kes  
NIP. 196509051993031004

KAPRODI D-IV  
TEKNOLOGI LABORATORIUM MEDIK  
  
Dwi Wahyu Indrianti, Ph.D  
NIP. 198505252016043201

KETUA PELAKSANA  
METHANOL 2024  
  
Ahmada Nurul Komariyah  
NIM. A14221091

# Portfolio CERTIFICATE...

**Sertifikat**  
NOMOR 7308/E2/DT.01.00/2023  
DIBERIKAN KEPADA  
**FARHAN SETIAWAN  
MUFTI ALI FARKHAN  
SEPTIO ADI NUGROHO**

Institut Teknologi Bandung  
Sebagai peraih pendanaan bidang PKMPM  
Biofilter Berbahan Dasar Botol Kemasan Minuman Sebagai Solusi Teknologi Sanitasi  
Tepat Guna di Kawasan Padat Penduduk Desa Cipacing Jatinangor

Program Kreativitas Mahasiswa (PKM) Tahun 2023  
Jakarta, 15 November 2023  
Direktur Pembelajaran dan Kemahasiswaan  
SRI SUNING KUSUMAWARDANI  
NIP. 196911221995122001

**CERTIFICATE**  
Sertifikat  
REPUBLIC INDONESIA  
DGCA UASTC-002

Asosiasi Pilot Drone Indonesia (Drone Pilots Association of Indonesia) hereby certifies  
diberikan kepada  
**MUFTI ALI FARKHAN**  
Cert. No. 11511 - 2025

The holder of the certificate has completed Drone Safety and Ethics Training Course and pass the test for Basic Drone Maneuvers.  
This certificate is valid for the period of two years from the following date.  
Jakarta, 13 July 2025

Chairman: Dr. M Akbar Marwan ST, MMSI.  
General Secretary: Hendrarto B. Setyadi

**MAKIN AHLI**  
**CERTIFICATE**  
1906/AH-0H1/MA/X-2025

This Certificate is Proudly Presented to  
**Mufti Ali Farkhan**

Has successfully completed training  
**Awareness Training Occupational Health & Safety  
Management System Based on ISO 45001:2018**  
On October 11-12, 2025

Aryani-Wastika Mukti, S. Si (Head of Learning and Development)  
Sanjaya, B.Sc. (Trainer)

**SERTIFIKAT**  
No. 227/IT1.B03.2/DL.09/202

diberikan kepada:  
**Mufti Ali Farkhan**

Atas partisipasinya sebagai peserta dalam acara  
**Pelatihan Jurnalistik Reporter Digital Media ITB**  
yang diselenggarakan oleh Biro Komunikasi dan Hubungan Masyarakat ITB.

Bandung, 19 Maret 2023  
Kepala Biro Komunikasi dan Hubungan Masyarakat ITB  
Dr. Naomi Haswanto, S.Sn., M.Sn.  
NIP. 196701041998032001

**MAKIN AHLI**  
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1906/AH-0H2/MA/X-2025

This Certificate is Proudly Presented to  
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Has successfully completed training  
**Awareness Training Environmental Management  
System Based on ISO 14001:2015**  
On October 11-12, 2025

Aryani-Wastika Mukti, S. Si (Head of Learning and Development)  
Sanjaya, B.Sc. (Trainer)

**MAKIN AHLI**  
**CERTIFICATE**  
1906/AH-0H4/MA/X-2025

This Certificate is Proudly Presented to  
**Mufti Ali Farkhan**

Has successfully completed training  
**Awareness Training Occupational Health & Safety  
Management System Based on SMK3 PP No 50 Tahun 2012**  
On October 11-12, 2025

Aryani-Wastika Mukti, S. Si (Head of Learning and Development)  
Sanjaya, B.Sc. (Trainer)

**EduGate**

**SERTIFIKAT**  
APRESIASI  
DIBERIKAN KEPADA  
**Mufti Ali Farkhan**

ATAS PARTISIPASI SEBAGAI PENGURUS PROGRAM EDUGATE  
PERIODE 1 TAHUN 2024

Nadiya (Founder EduGate), Muhamad Alfran Rolegian (Co-Founder EduGate), Rommi Adany Putra Afasy (Ketua Umum Sakola Kembara)

**SERTIFIKAT**  
Nomor: Manual.1144/E2/KM.01.00/2024  
DIBERIKAN KEPADA  
**ANIS SALSABILA ARIFIN  
MUFTI ALI FARKHAN  
DAFFA ZETTIRA MAZDHANIA  
LUQMANNUL HAKIM  
MARIA AURELIA LARAS MAHARANI**  
Institut Teknologi Bandung  
peraih insentif bidang PKMGFT

GEOMAPAN: Skema Pemulihan Emisi Melalui Carbon Trading dan Kompensasi Karbon Guna  
Mewujudkan Low Carbon and Climate Resilient 2050

Program Kreativitas Mahasiswa (PKM) Tahun 2024  
Jakarta, 19 Agustus 2024  
Sri Suning Kusumawardani  
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DIREKTUR PEMBELAJARAN DAN KEMAHASISWAAN

**SERTIFIKAT**  
Nomor: Manual.1144/E2/KM.01.00/2024  
DIBERIKAN KEPADA  
**MUFTI ALI FARKHAN  
ANIS SALSABILA ARIFIN  
DAFFA ZETTIRA MAZDHANIA  
LUQMANNUL HAKIM  
MARIA AURELIA LARAS MAHARANI**  
Institut Teknologi Bandung  
peraih pendanaan bidang PKMRE

Analisis Dinamika Stok Karbon pada Vegetasi Mangrove di Kabupaten dan Kota Cirebon  
Menggunakan Data Penginderaan Jauh dan Pengimplementasian Machine Learning

Program Kreativitas Mahasiswa (PKM) Tahun 2024  
Jakarta, 19 Agustus 2024  
Sri Suning Kusumawardani  
NIP. 196911221995122001  
DIREKTUR PEMBELAJARAN DAN KEMAHASISWAAN

**CERTIFICATION OF  
APPRECIATION**

This certificate is given to  
**Mufti Ali Farkhan**

As a Speaker in international conference MSAT 2025 "Navigating the Future: Synergies Between  
Marine Science, Industry, and Global Challenges for Sustainable Solutions"

Dr. techn. Dudy Darmawan Wijaya, S.T., M.Sc. (Dean of the Faculty of Earth Sciences and Technology, ITB)  
Karina Aprilia Sujatmiko, S.Si., M.T., Ph.D. (Chief Executive The 5th MSAT)

# Other Activities ●●●




# Thank You




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