MUHAMMAD IHSAN AKBAR

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PROFESSIONAL PROFILE

Bachelor of Urban and Regional Planning with strong research experience in spatial planning, environmental analysis, regional economics, and logistics planning. Skilled in using analytical tools such as ArcGIS, AutoCAD, IBM SPSS, and Microsoft Office. Experienced in assessing land-use suitability based on spatial and zoning plans, environmental carrying and assimilation capacity, economic competitiveness analysis for regional business strategy, business location planning based on market share and service area, optimizing logistics routes based on distance and travel time efficiency. Demonstrates a systematic mindset, adaptability, and a strong orientation toward data-driven problem solving, both independently and within teams.

EDUCATION

Institut Teknologi Sains Bandung, Bekasi   Sep 2020 – Jul 2024
Bachelor of Urban and Regional Planning (S.PWK) – GPA 3.86 (Cumlaude)

- Academic Excellence Scholarship recipient
- Core focus: regional economic planning, infrastructure and transportation planning, spatial planning
- Final Project: "Study of Determining Agroindustri Locations For Sentra IKM Based On Food Crops Commodities In Karawang Regency"

PROFESSIONAL EXPERIENCE

LPPM Institut Teknologi Sains Bandung (consultant), Bekasi   Nov 2024 – Dec 2024
Research Staff for KLHS (Kajian Lingkungan Hidup Strategis) Sarmi Regency, Papua 2021 – 2041

- Performed land capability and suitability analysis, water availability assessment, ecosystem service evaluations, as well as forecasting potential environmental impacts and risks for strategic environmental assessment (KLHS).
- Contributed to identifying environmentally feasible areas for development, ensuring compliance with environmental regulations.

Badan Perencanaan Pembangunan Daerah (Bappeda), Karawang   Jun 2023 – Aug 2023
Staff Intern at Research and Development Division

- Performed economic sector analysis using shift share, input-output**,** and location quotient to assess sector competitiveness for industrial growth planning.
- Created industrial and agricultural zoning maps based on Regional Spatial Plan (RTRW) using ArcGIS.
- Authored an academic article published in the Karawang Scientific Journal.

SCIENTIFIC PUBLICATIONS

- Ihsan Akbar, M. (2024). Analisis Keterkaitan Ekonomi Antara Sektor Pertanian dan Industri Pengolahan dalam Perekonomian Kabupaten Karawang Menggunakan Metode Analisis Input-Output. Jurnal Ilmiah Karawang, 2(02), 1-14.
- Ihsan Akbar, M. 2023. Analisis Kesesuaian Lokasi Kawasan Peruntukan Industri Berdasarkan Kelas Kemampuan Lahannya di Kabupaten Karawang. Jurnal Ilmiah Karawang. 1, 02 (Des 2023), 53–65.
- Muhammad Reza Akbar, & Muhammad Ihsan Akbar. (2022). Analisis Regulasi Uji Emisi Gas Buang Kendaraan Berdasarkan Pengaruhnya Terhadap Indeks Kualitas Udara di DKI Jakarta Menggunakan

Metode Korelasi Pearson dan Regresi Linear. J Statistika: Jurnal Ilmiah Teori Dan Aplikasi Statistika, 15(1).

ACHIEVEMENTS

Concept Development Infographic Competition Kawasan Strategis Provinsi (KSP), West Java Province   Oct 2024

Top 5 Finalist in the Infographic Competition held by Dinas Bina Marga dan Penataan Ruang Jawa Barat

PORTOFOLIO

Access full project and publication portfolio at : https://ihsan-w.github.io/MYJOURNEY/

ORGANIZATIONAL EXPERIENCE

Urban and Regional Planning Student Association, Institut Teknologi Sains Bandung

Head of Education and Professional Development Department   2022 - 2023

- Led department programs and facilitated ArcGIS workshop training during student onboarding

Staff of Education and Professional Development Department   2021- 2022

- Initiated and managed "Ruang Plano" podcast as a platform for academic discussion

CERTIFICATIONS

- **Coding Studio** - Fundamental Front-End WEB I
- **Arsiten Academy** - AutoCAD Masterclass for Beginner & Intermediate
- **Logis.map Indonesia** - Google Earth Engine Intensive Bootcamp : Flood Monitoring with Sentinel-1 SAR
- **BBC English Training Specialist** - Dynamic Conversation for Adults (DCA) Level English Course
- **BBC English Training Specialist** - Elementary Level English Course

TECHNICAL SKILLS

- ArcGIS, QGIS, Google Earth Engine for spatial planning analysis
- Avenza Maps to support survey activities in the field
- Front-end development with HTML, CSS, JavaScript, Bootstrap 5, jQuery, GitHub
- AutoCAD 2D for for detailed spatial drawings in master plans and site plans
- Microsoft Word, Excel, PowerPoint for data analysis and presentation

PERSONAL SKILLS

- Systematic and comprehensive thinking
- Effective communication and time management
- Leadership ability
- Responsive and adaptable
- Creative and critical in problem solving

LANGUAGES

- Indonesian (Fluent)
- English (Intermediate)