



Sutan Ashari Mufti

Urban, Transport and Infrastructure Specialist

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Summary

Urban Transport Specialist with a track record in contributing to large-scale infrastructure projects across the UK and Southeast Asia. I have successfully contributed to the transport modelling for the Bandung and Medan Bus Rapid Transit systems, where I managed millions of rows of data to assess project feasibility. Additionally, I modelled the Jakarta LRT Manggarai Extension, providing critical passenger growth forecasting and identifying unlocked market opportunities. By leveraging advanced geospatial analytics, including the processing of over 100GB and millions of rows of spatial data to optimise infrastructure sites, I bridge the gap between complex data and actionable urban policy. I bring a global perspective from tenures at The World Bank and Amberside Energy, focusing on data-driven, compelling visualisation, and sustainable urban development.

Skills: Urban Transport Modelling, Infrastructure Appraisal, Transport Policy Analysis, Transit-Oriented Development (TOD), Feasibility Studies, Financial Modelling, Sustainable Urban Development, Python (ArcPy, Data Science Libraries), QGIS/ArcGIS, Automation & Data Pipelines, Cloud Computing (Google Cloud Platform), SQL (PostgreSQL/PostGIS), Apache Spark, Full-stack Awareness, DevOps for Data Systems, front end development, WebGIS

Highlight

Education	Experience	Key Projects
<p>University College London (UCL), London: MSc in Infrastructure Planning, Appraisal and Development. Focused on the strategic business case, decision-making process for major projects, including risk, uncertainty, and financing.</p> <p>Bandung Institute of Technology (ITB), Bandung: BSc in Urban and Regional Planning. Developed a foundational expertise in walkability, urban design, and regional spatial policy.</p> <p>Ritsumeikan University, Osaka: International Exchange Programme</p>	<p>Amberside Energy, London (Senior Manager): Led analysis and software support for UK solar and battery infrastructure in partnership with major pension fund managers.</p> <p>The World Bank Group, Jakarta (Transport Consultant): Served as a member of the transport team, conducting appraisal and feasibility studies for large-scale mobility projects across Indonesia.</p> <p>Ulab Magnaversa, Bandung (Urban Planner): Conducted research on spatial planning policy and provided typology analysis for Transit-Oriented Development (TOD) projects in Jakarta and West Java.</p>	<p>Bowerhouse II Solar Farm (UK): Performed solar performance analysis and data modelling to support business development and project management for large-scale renewable infrastructure.</p> <p>Burnley Battery Storage Development (UK): Executed site and economic appraisals, utilising cloud architecture and spatial data to determine project viability for investment partners.</p> <p>Bandung and Medan BRT: Contributed to transport project appraisal and feasibility studies, managing millions of rows of data and GTFS modelling to assess urban mobility impacts.</p> <p>Jakpro LRT Extension: Conducted a comprehensive study on the LRT Jakarta Manggarai Extension, providing passenger growth forecasts and identifying interventions to unlock market potential at key stations.</p>

Work Experience

CoFounder & Technical Expert (2025-now)

Enums.id, Bandung, Indonesia

[Enums.id](#) is a software company that specialises in GIS and cloud based GIS systems. It leverages the power of the cloud to provide infrastructure solutions to its clients.

- Transport modelling for urban and transport consultancy projects
- DevOps services; I establish CI/CD pipelines, procure cloud infrastructure for the team, and monitor the apps in production
- Backend development for our products

Senior Manager (Software) (2022-2025)

Amberside Energy Ltd, London, United Kingdom

Team manager in charge of analysis, support, and software development for solar farm development. Our firm partnered with Copenhagen Infrastructure Partners in delivering renewable projects in the UK.

- Supported analysis in relation to major pension fund managers as the investment partner
- Energy supply and demand analysis in the UK to appraise solar & battery projects
- Lead the software team to support business development (project management)
- Big GIS Spatial data analysis and data pipeline with python, typescript and cloud computing. Handled millions and gigabytes of data automatically.
- Asset performance analysis
- Consulting analysis support for battery and solar related projects
- Cloud architecture and engineering

Transport Consultant (2021-2022)

The World Bank Group, Jakarta, Indonesia

STT Consultant, a member of the transport team.

- Transport appraisal analysis for Bandung and Medan Bus Rapid Transit Project
- GTFS modelling to assess the feasibility of projects with GIS
- Financial analysis for the port team; port development feasibility study

Urban Planner (2019-2020)

Ulab Magnaversa, Bandung, Indonesia

Ulab magnaversa is an urban design consultancy firm. Python and ArcGIS Pro were the primary tool in this role.

- Conducted research on urban spatial planning policy in West Java and Jakarta.
- Provided typology analysis for TOD LRT Jakarta (Velodrome - Pegangsaan Dua).
- Built environment analysis for various urban design projects in Jakarta and West Java.

Internship (2018-2019)

Bapperida Kota Bandung, Bandung, Indonesia

Bapperida (formerly known as Bappelitbang or Bapeda Kota Bandung) is the municipal government body responsible for planning regional development, conducting research, and fostering innovation in Bandung City.

- GIS services for Bandung Spatial Plan (RTRW)
- Supported the procurement of Environmental Impact Analysis (KLHS) in support of Bandung Spatial Plan.

Education



MSc Infrastructure Planning, Appraisal And Development

2020-2021 University College London

(London, United Kingdom)

Dissertation: LRT Jakarta Development Decision Making Analysis. Modules:

- Infrastructures as Agents of Change
 - Business Cases for Infrastructure
 - Risk, Uncertainty and Complexity in Decision-Making
 - Critical Issues in Infrastructure Funding, Financing & Investment
 - Infrastructure Policy, Planning and Consent
 - Major Infrastructure Planning Practice
 - Dissertation in Planning
 - Sustainability and Major Infrastructure Investments
 - Environmental Assessment and Management
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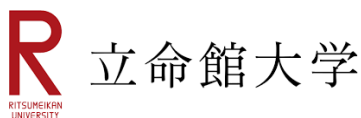
BSc Urban and Regional Planning

2014-2019 Bandung Institute of Technology

(ITB, Bandung)

Dissertation: Walkability Study of Bandung Institute Technology Neighbourhood. Activities:

- Joined the ITB Student Orchestra. Part of the management team and contributed as 2017 concert producer
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International Exchange Programme

2017 Spring Period: Ritsumeikan University,

(Osaka Ibaraki Campus, Japan)

AIMS Programme spring period exchange programme between Urban Planning students from ITB with Ritsumeikan University Osaka Ibaraki Campus. Spring period from April 2017 - August 2017.

Websites

The following section lists websites that I have built.

URL	description
https://sutan.co.uk	<p>Personal website. 90% vibe coded using chatgpt 5 written in typescript and developed with Vite. Deployed in Github pages with proper CI/CD build. It is also open-source.</p> <p>Showcases AI skills in delivering real work.</p>
https://storymap.ceritapeta.co.uk	<p>The website is about an interactive “story map” website that explains Indonesia’s first high-speed railway (Jakarta–Bandung) using maps, visuals, and narrative text.</p> <p>Showcases the ability to present map based stories interactively.</p>
https://rekayasadata.co.uk	<p>is a knowledge-sharing site (Medium publication) about spatial data engineering and geospatial data science, mainly aimed at Indonesian readers and professionals.</p> <p>Showcases leadership and ability to grow community in built environment and computer science.</p>

Certification / Training

Title	Description
Financing and Investing in Infrastructure 2019 by Università Bocconi	The course focuses on how private investors approach infrastructure projects from the standpoint of equity, debt, and hybrid instruments.
Data Analysis and Presentation Skills: the PwC Approach 2019 by PwC	Data-driven Decision Making Problem Solving with Excel Data Visualization with Advanced Excel Effective Business Presentations with Powerpoint Data Analysis and Presentation Skills: the PwC Approach Final Project
Architecting with Google Compute Engine 2025 by Google	Essential Google Cloud Infrastructure: Foundation Essential Google Cloud Infrastructure: Core Services Elastic Google Cloud Infrastructure: Scaling and Automation Reliable Google Cloud Infrastructure: Design and Process

Title	Description
<p>Security in Google Cloud</p> <p>2025 by Google</p>	<p>Managing Security in Google Cloud Security Best Practices in Google Cloud Mitigating Security Vulnerabilities on Google Cloud</p>
<p>Business Statistics and Analysis</p> <p>2019 by Rice University</p>	<p>Introduction to Data Analysis Using Excel Basic Data Descriptors, Statistical Distributions, and Application to Business Decisions Business Applications of Hypothesis Testing and Confidence Interval Estimation Linear Regression for Business Statistics Business Statistics and Analysis Capstone</p>
<p>Statistics with Python</p> <p>2020 by University of Michigan</p>	<p>Understanding and Visualizing Data with Python Inferential Statistical Analysis with Python Fitting Statistical Models to Data with Python</p>