

# Delivering **Digital Advantage** Where It Matters

Enabling frontier advantage implementation in an ever-evolving **technology development**



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## A Glimpse about **TAN** Digital

The digital landscape has shifted from a competitive advantage to a fundamental baseline for survival. Organizations today are battling technical obsolescence, facing a universal demand for operational speed and data-driven decision-making.

Founded in 2019, **TAN Digital** recognized the widening gap between possessing technology and harnessing it effectively.

We intervene to build the architectural bridge needed to turn frontier technology into streamlined service delivery. **We moved beyond a traditional vendor role to become a strategic transformation partner**, understanding that true competitiveness comes from reshaping value delivery rather than simply deploying software.

**Our approach prioritizes practical impact over theoretical promises.** Fueled by a diverse team, we have successfully navigated over 100 application cases, helping partners transition from legacy friction to digital fluidity. With over 2,500 active daily users in our implemented solutions, we have demonstrated that precisely applied technology is the strongest lever for efficiency in the next wave of digital evolution.



## Our Journey: Progression of our capabilities and engagements



**Establishment of IT practices to meet market demands**

Provisioned website information services and custom web-based application developments



**Major client project engagement for implementing ERP services for the telecommunication industry**

Established modular ERP frameworks and business process validation processes to successfully meet client demands



**Transitioning towards more diverse propositions to serve core activities of our client business**

Implementation of spatial analysis using data to derive insights and tangible directives



**Maintaining our services through long-term contract agreements and new product offerings**

Developed core practices for application delivery and software management services



**Diversification towards other industry verticals and cutting-edge technologies utilising AI and Data capabilities**

Engaged with multiple client sectors from diverse industries and added a variety of engagement propositions

**2021**

**2022**

**2023**

**2024**

**2025**

# Extensive Services across the Digital Applications: Proposition for our domain verticals

## Verticals

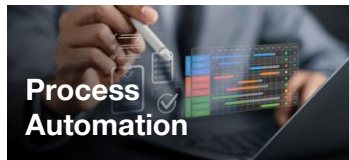
## Customer Needs

## Our Solutions & Clients



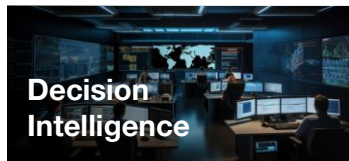
- Fewer tools, one workflow
- Stronger control & accountability
- Less manual coordination

- Unified ops platform
- Workflow + KPI embedded
- System integrations



- Automate verification
- Better data quality
- Scale without headcount

- AI-enabled Automation pipelines
- Human-in-the-loop controls
- MLOps Implementation



- Faster decisions
- Integrated datasets
- Executive visibility

- BI + analytic workflows
- Geo/spatial where needed
- Decision-ready outputs



- Continuous security
- Standardized controls
- Earlier risk detection

- DevSecOps practices
- Central security visibility
- Governance + runbooks

### Government Sector



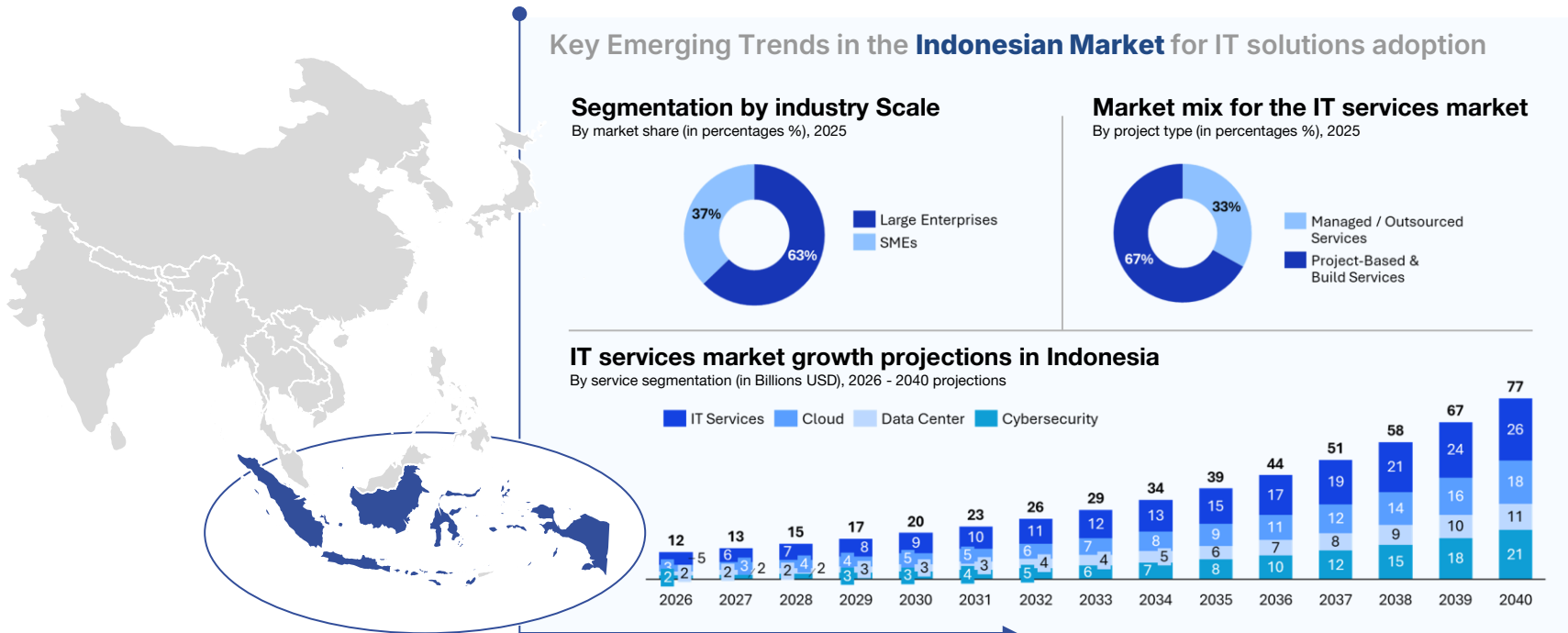
### Industry Sector



# An evolving landscape: Market Trends and Opportunities

## for IT Implementation in the Indonesian market

Indonesia's is an emerging market that is shaped by converging forces: a rapidly expanding digital economy, rising enterprise demand for cloud-led modernization, and growing investment in AI, cybersecurity, and digital infrastructure.



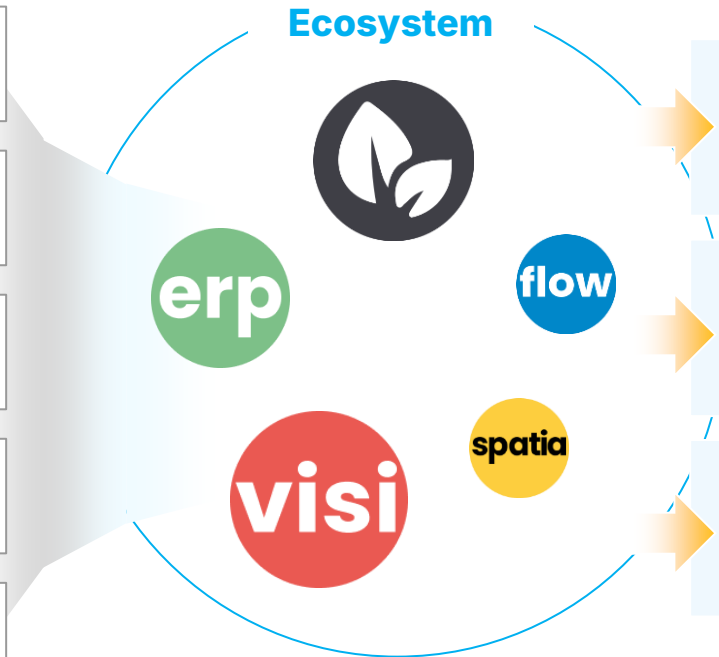
Source : Various market intelligence resources

# Our solutions-domain Applications: Expertise-based solutions based on our core domain capabilities through Logica

## Business Requirements

- Increasingly complex business needs
- Evolution of organisational functions that must adapt to the times
- The need for fast, data-driven decision-making
- Limited resources in managing disparate systems
- Demand for operational efficiency and cross-unit transparency

## Logica Ecosystem



## Business Advantages

- Modular and scalable solutions sized to your organisation
- Real-time access to data-driven insights to support business decision-making
- Stronger governance, security, and flexibility of usage tailored to organisational needs

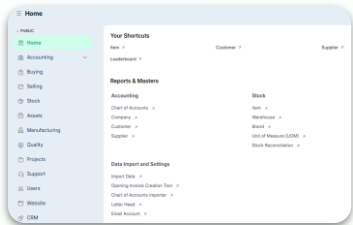
A complete set of solutions to address business / organisational needs holistically

# Highlights of and capabilities

**Logica ERP** is built for organisational management as a **solution for workflow management and core business function fulfilment**, enabling effective management of planning and operational activities.



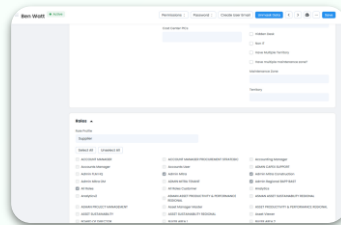
## Features and capabilities of our solutions



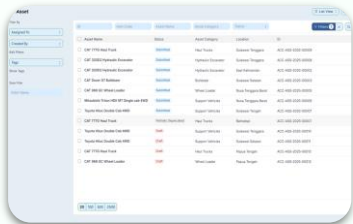
Functional Business Modules



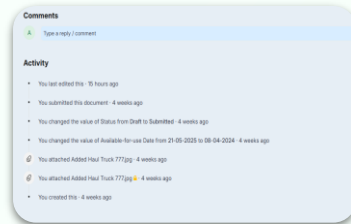
Executive Dashboard



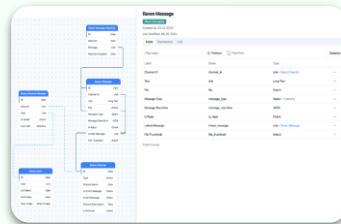
User Access Authorization



Use Case Specific Functionalities



User Activity Logging



External / 3rd Party Integration

## Key Benefits



Integration of core business processes within a single, centralised platform



Improved operational efficiency through workflow and activity tracking



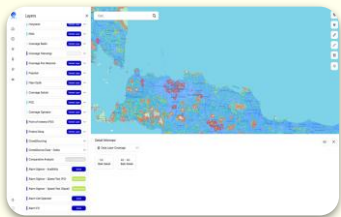
Consolidates corporate planning and governance based on data

# Highlights of **Logica spatia** and capabilities

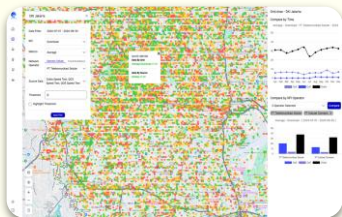
**Logica Spatia** is a solution designed to **help organisations map assets and context** within a spatial dimension, providing a more holistic view of business needs

spatia

## Features and capabilities of our solutions



Map Layer Data Management



POI and Asset Data Consolidation



Spatial Zoning and Feature Mapping



Route Planning Analysis



Recommendation Use Case Functionality



Hotspot Analysis

## Key Benefits



Geographic analysis of patterns and distribution of assets and activities



Monitoring and consolidation of business context within a spatial dimension

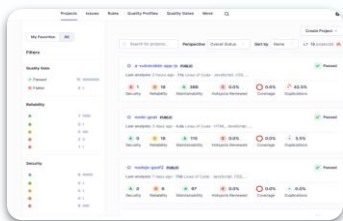


Optimised planning and resource allocation in the field

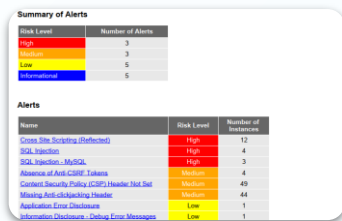
# Highlights of and capabilities

**Logica Flow** is designed for managing diverse business applications, helping organisations **meet strong application governance standards** through proactive measures to mitigate potential risks.

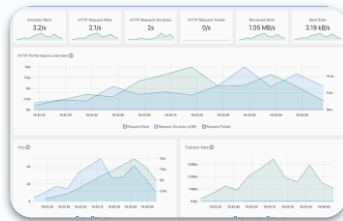
## Features and capabilities of our solutions



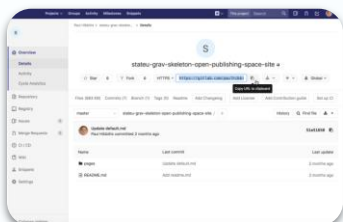
Static Application Security Testing



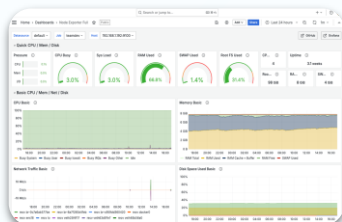
Dynamic Application Security Testing



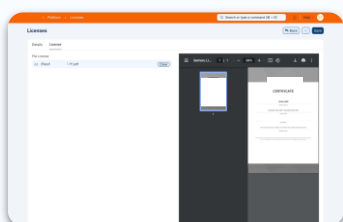
Load & Performance Test



Centralised Source Code Repository



Application Monitoring



Centralised AppSec Platform Management

## Key Benefits

Automated end-to-end security and performance testing through CI/CD

Real-time monitoring of application operations and source code activity

Simplified verification and compliance with business application security standards

# Highlights of **Logica visi** and capabilities

**Logica Visi** is a service designed to **streamline the transition to adopting Artificial Intelligence** within organisational and business operations, maximising the benefits of technological advancement.



## Features and capabilities of our solutions

Column	Anomalous	Tag	Type	Not Null (%)	Distinct	Min Len	Max Len
address	No	-	String	100%	3903	58	15
city	No	-	String	100%	3512	3	15
country	No	-	String	100%	1	15	15
date	No	-	String	100%	6280	-	2024-01-15, 35, 763
email	No	-	Timestamp	100%	436	-	2024-02-5, 36, 483

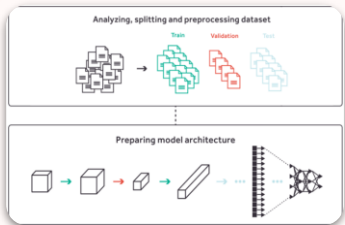
**Data Quality Management**

id	Completed	Annotations	Assigned by
22013	0	0	0
22014	0	0	0
22015	0	0	0
22016	0	0	0
22017	0	0	0
22018	0	0	0
22019	0	0	0
22020	0	0	0

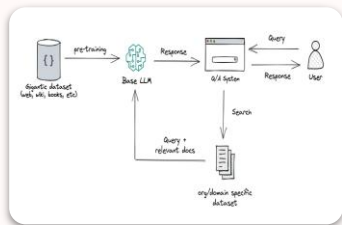
**Annotation and Labeling**



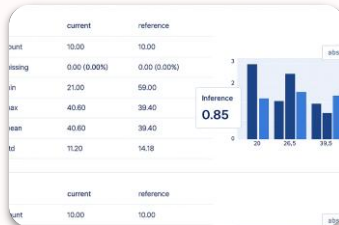
**AI Use Case Development**



**AI Models for Production**



**Large Language Models (LLM) Implementations**



**Prediction Scoring and Inference**

## Key Benefits



Tailored Artificial Intelligence solutions aligned with business needs

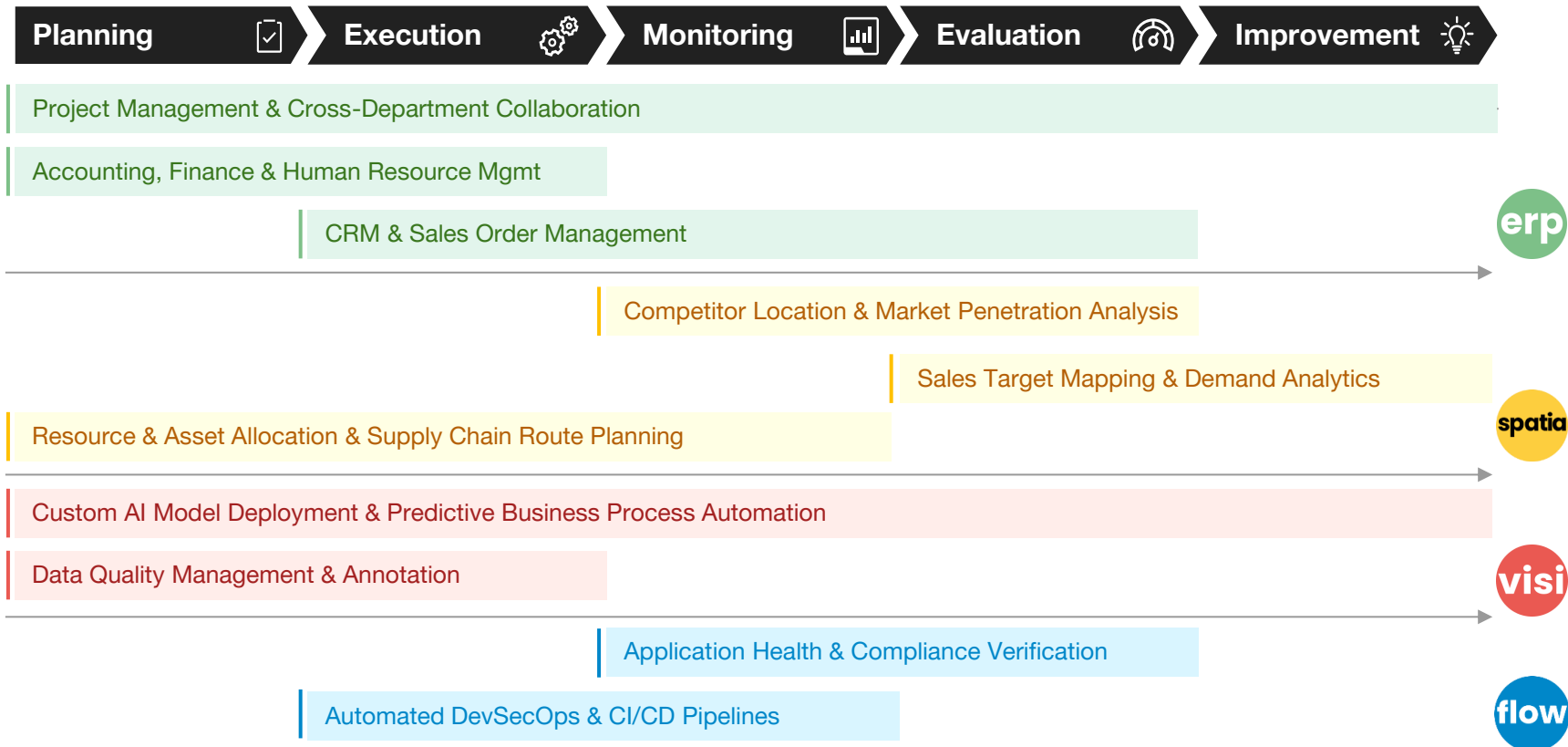


End-to-end management and monitoring of the Artificial Intelligence ecosystem



Greater process efficiency and optimised automation benefits through artificial intelligence

# Function Domain Use Cases for our solutions: End-to-end digital organisational empowerment



# Recent Highlights: Enterprise-scale Implementation for sustained corporate operational value creation benefits

	AI-enabled Maintenance Operations	Data Consolidation Platform Implementation	Workforce Management System
Projects			
Immediate Opportunities	MLOps Implementation, Quality Control Automation, Asset Health Monitoring	Data Management Best Practices, Architecture Reengineering, Data Orchestration Implementation	Workforce Consolidation Platform, Productivity Monitoring, Human resource onboarding/offboarding
Future Opportunities	Predictive Maintenance, Asset Analytics, SLA Automation Management	Generative AI, Intelligent Insights, Decision Support	Workforce Analytics, Productivity Optimization, Intelligent Workforce Planning

# Bridging the Digitalisation Obstacle

## Continuous Search of Implementation Opportunities

Digitalisation is a strategic imperative, yet ambition rarely translates cleanly into execution for most organisations.

At Tan Digital, we close that gap through a continuous, opportunity-driven approach — surfacing where digital interventions unlock measurable value and converting them into deployable solutions. Rather than treating transformation as a one-time event, we embed an ongoing discovery mindset with our clients, setting the stage for the specialised engagements that follow.



## The Engagement Hypotheses: An increasing need for specialised requirements that are product-agnostic

The "one-size-fits-all" approach towards digital solutions is becoming increasingly non-viable. **Modern businesses demand specialized solutions** that are tailored to their unique needs, requiring solutions to be agnostic of specific products to remain relevant for their operations.

### The Pitfalls of product-driven approach

A product-driven approach often forces organizations to adapt their unique business processes to the rigid constraints of a prepackaged software solution.

Instead of solving specific operational challenges, this leads to "square-peg-in-a-round-hole" implementations that create new inefficiencies and fail to address the root of the business need.

### The Need

A holistic solution for clients

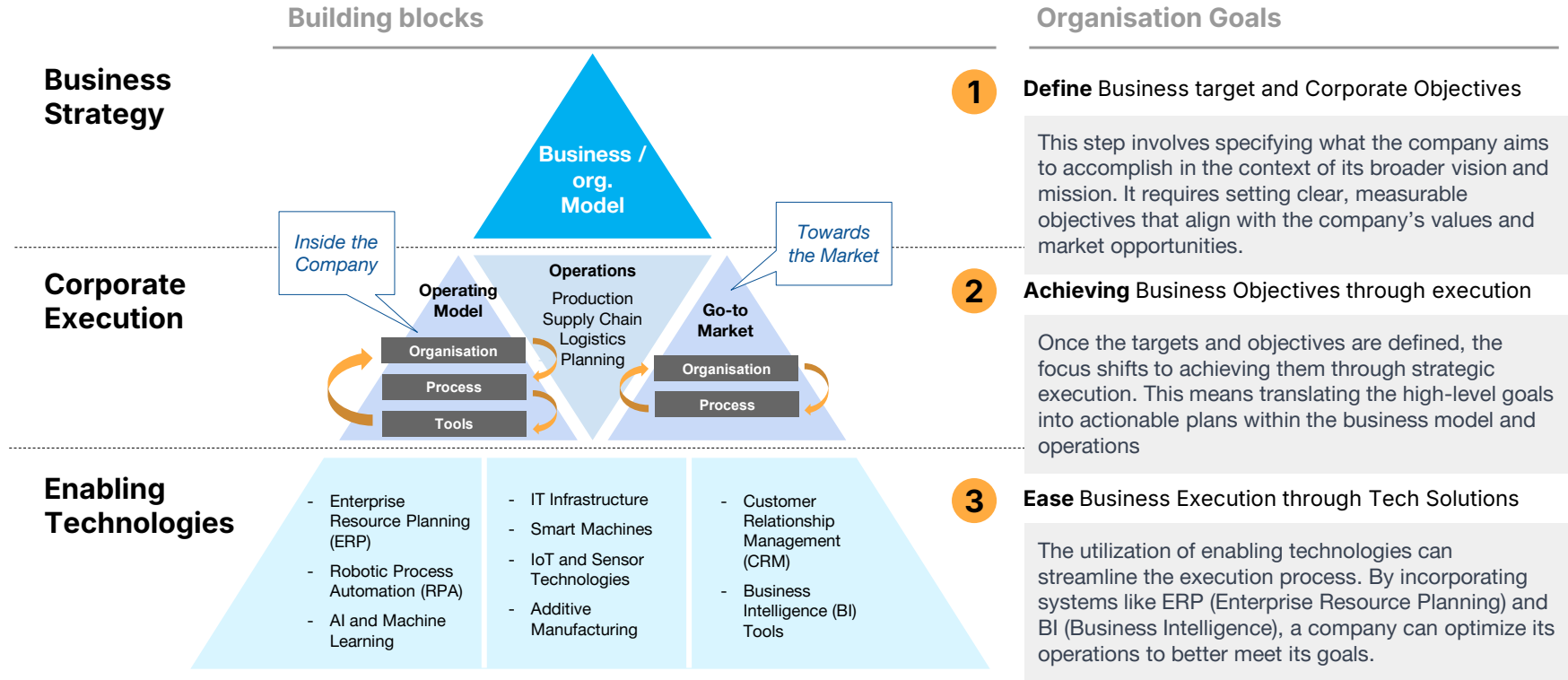


**Specialised**

**Proven**

**Scalable**

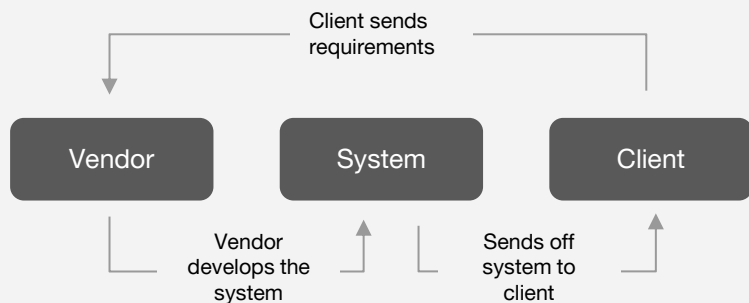
# The bedrock of our Digitalisation approach: Organisational Goals as the means, not the other way around



# Value Proposition : More than just an IT vendor, we aim to be your **Strategic Partner**

## Traditional IT Vendor Approach

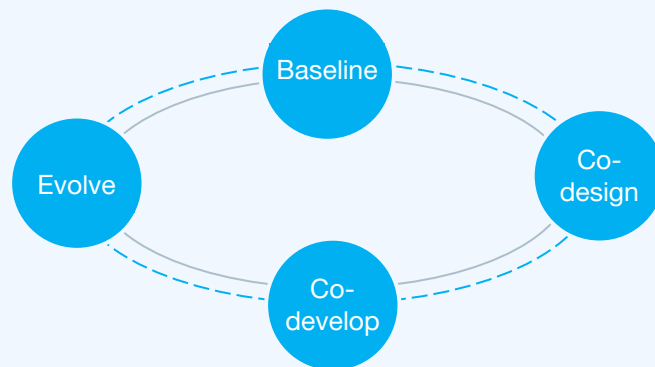
Build it. Ship it. Move on.



One-off projects catered for textual requirements  
Product fits existing developed features  
Limited synergy value creation after deployment

## Strategic Partner Approach

Baseline. Build. Evolve. Together.



Solutions that grows with your operations  
Synergy-shaped specific solutions  
Value creation through through proactive value identification

A nighttime aerial photograph of a cityscape on the left, a winding river in the center, and a large mountain range in the background under a starry sky. The city lights are visible, and the river reflects the ambient light. A golf course with illuminated green fairways and a waterfall are visible on the right bank of the river.

## Your partner in **Digital Solutions** Implementation!

**Extensive  
Integrated Portfolio**

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**Locally-Rooted  
Engagements**

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**End-to-End  
Delivery Expertise**

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**Experience in High  
Impact Projects**

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# Works Portfolio.





# KOMINFO Pusat Monitoring Telekomunikasi



For More Details, visit [tandigital.id](https://tandigital.id)

## PROBLEM

The existing system for monitoring telecommunications infrastructure in Indonesia, currently segmented into various categories like mobile and broadband, presented a significant challenge. This segmented approach made the system non-comprehensive and incredibly hard to maintain.

## NEEDS

The pressing need was for an integrated solution that could address these challenges while also being agile in its operations. The government recognized the necessity of having a unified monitoring system that not only simplifies maintenance but also enhances efficiency and effectiveness in managing the nation's vital communication infrastructure.

## SOLUTION

Our solution involves creating an integrated monitoring system that unifies all communication infrastructure in Indonesia, providing a holistic view. Additionally, we integrated cross-analytics tools with data from other ministries, ensuring efficient and informed decision-making, thereby streamlining the management and maintenance of Indonesia's vital communication infrastructure.

# Mitratel OneFlux

## CRM – TMS



For More Details, visit [tandigital.id](https://tandigital.id)

### PROBLEM

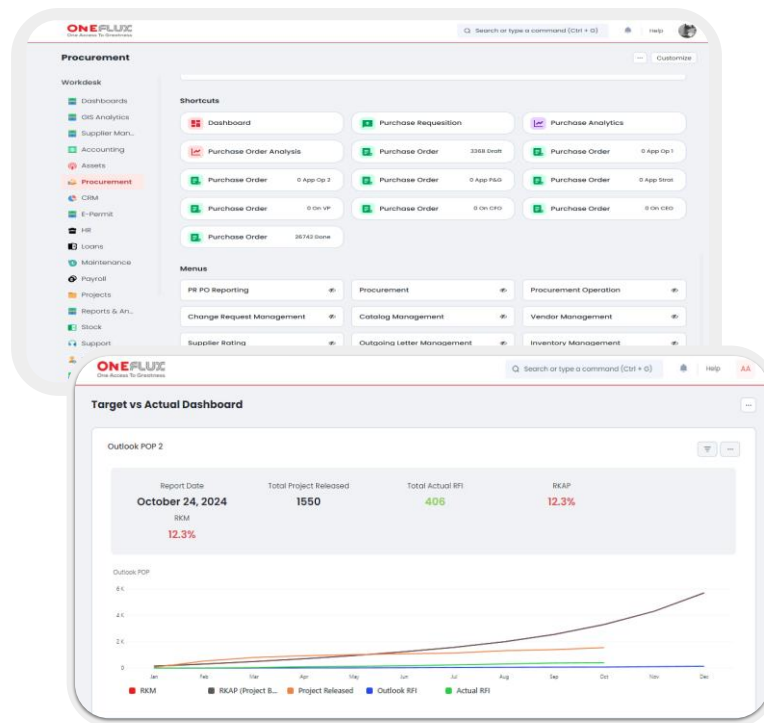
As part of the transition of its existing business applications, Mitratel is looking to unify several functions of different applications into a monolithic application that can cover an end-to-end business operations to address potential operational silos and disparate updates of business workflows.

### NEEDS

Mitratel is looking to develop a single application for all its business requirements, highlighting a centralised platform as a center of its operational activities and consolidation of corporate performance dashboards.

### SOLUTION

We developed an single platform that consolidates several business functions (Procurement, Accounting, Assets, etc) along with specific functional modules to support each business activities and also centralised the workflow management within the application for the entire company as well as third-party related activities and integration with external resources.



## Geospatial Analytics Platform



For More Details, visit [tandigital.id](https://tandigital.id) ↗

### PROBLEM

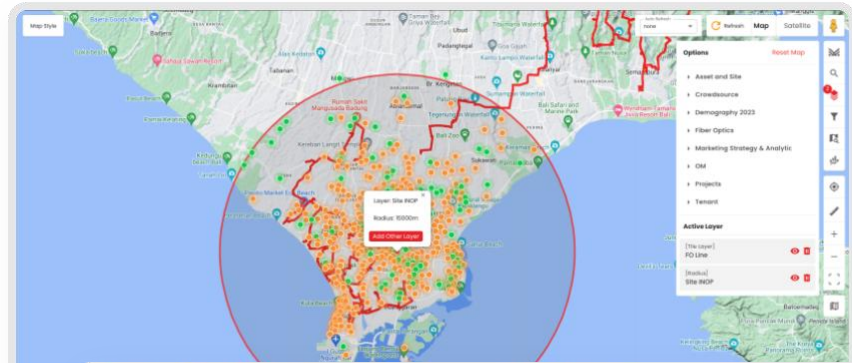
Mitratel faced a significant challenge in their current analysis process for identifying the potential of telco tower locations, which was conducted manually. This manual process was time-consuming and lacked the ability to incorporate critical secondary data, such as market potential and demographic information.

### NEEDS

Mitratel recognized the need to perform analytics by combining their data with secondary sources like market potential and demographic data. They required an efficient and data-driven approach to tower location selection.

### SOLUTION

Our solution entails the development of a highly capable Geospatial Information System (GIS) based analytics platform with cross-layering capabilities. This system empowers Mitratel to conduct sophisticated geospatial analysis, incorporating a wide range of data layers, including market potential and demographic information, to make informed decisions about telco tower locations. By automating and enhancing the analysis process, Mitratel gains a competitive edge in optimizing their tower network, saving time, and ensuring their towers are strategically placed to meet the demands of their target markets.



# Mitratel Operational KPI Mobile Application

For More Details, visit [tandigital.id](http://tandigital.id) ↗

## PROBLEM

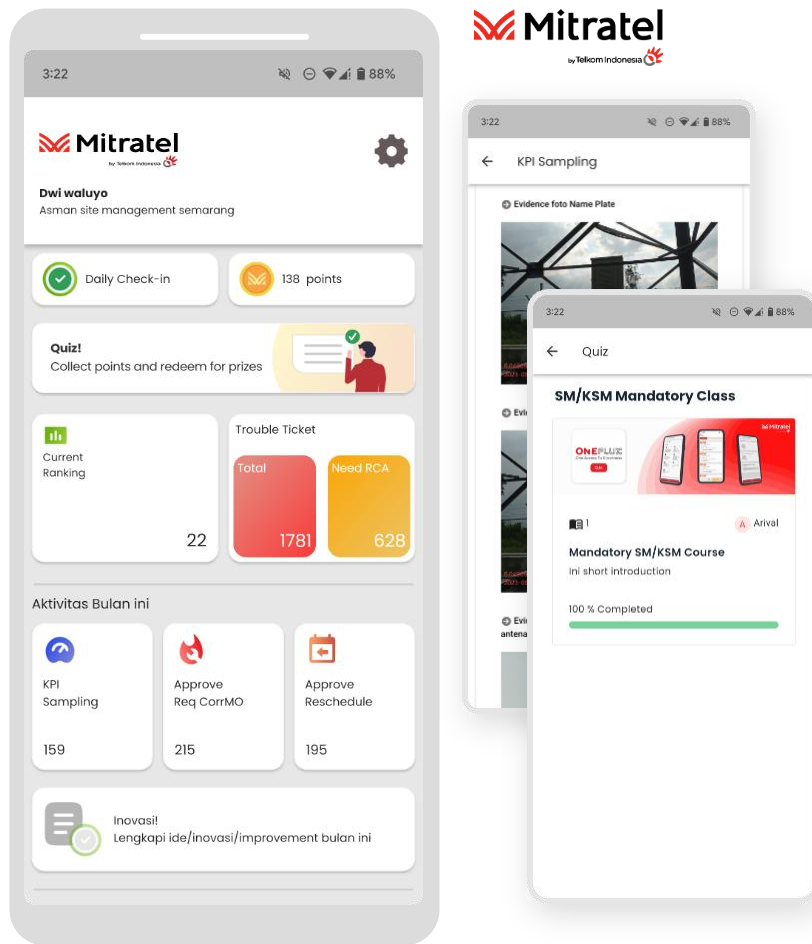
Mitratel faced challenges related to KPI scoring, which was manual and prone to bias. This situation needed to change to ensure fairness and accuracy in evaluating employee performance.

## NEEDS

Mitratel had a compelling need to boost employee morale, foster a sense of belonging, and motivate their team to give their best. A solution that could address the bias in KPI scoring and enhance employee engagement was crucial.

## SOLUTION

Our solution involves the development of an agile mobile application that not only performs KPI scoring but also fosters a sense of belonging and motivation among employees. The mobile app includes an embedded module on the Customer Relationship Management (CRM) platform to streamline the KPI scoring process, ensuring fairness and accuracy. By offering a user-friendly, mobile-based tool, Mitratel empowers its employees to track their performance and receive feedback in real-time, contributing to a positive work environment and enhancing overall job satisfaction. This approach encourages employees to give their best, boosting overall productivity and performance.



## Maintenance Mobile Application

For More Details, visit [tandigital.id](https://tandigital.id)

### PROBLEM

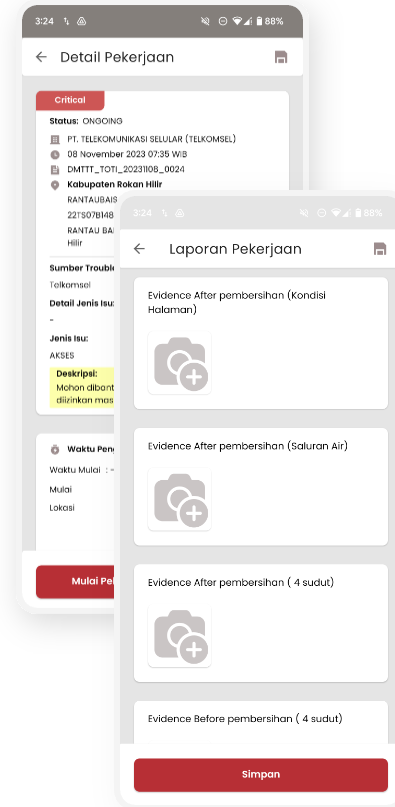
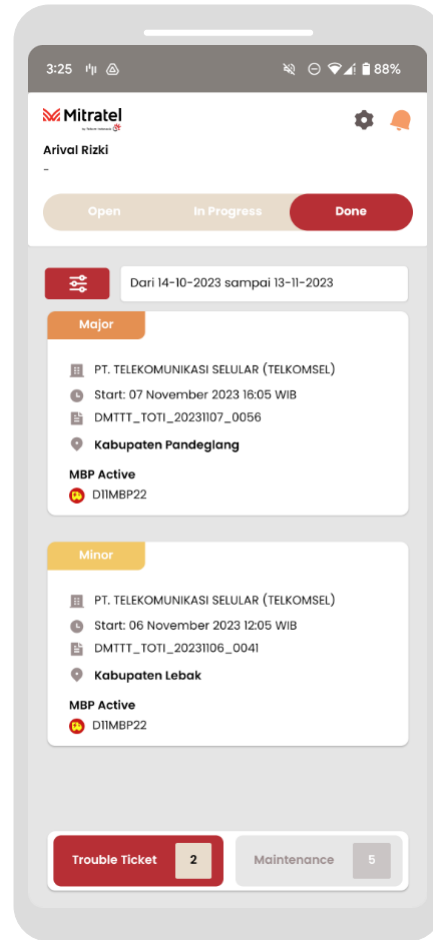
Mitratel's existing maintenance mobile application faced challenges, including sluggish performance and unreliability. These issues hindered the effectiveness of their maintenance operations.

### NEEDS

Mitratel required a comprehensive overhaul of their maintenance application to enhance its performance and reliability. The need was to provide a mobile solution that empowers their team to carry out maintenance tasks efficiently.

### SOLUTION

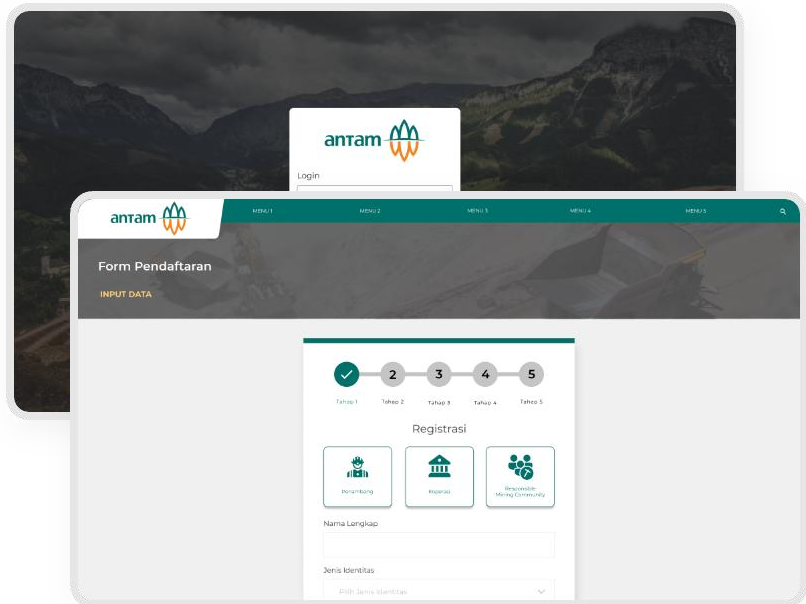
Our solution involves the development of a robust iOS and Android application with extensive capabilities. This includes an end-to-end monitoring system to ensure that over 2000 active users can utilize the app daily without encountering issues. By enhancing performance, reliability, and scalability, we enable Mitratel's maintenance team to streamline their operations, improve productivity, and ensure the application is a valuable asset in their daily work, contributing to the success of their maintenance tasks.



# ANTAM Digital Consulting Services



For More Details, visit [tandigital.id](https://tandigital.id) 



## PROBLEM

Artisanal mining at ANTAM (Aneka Tambang) is currently burdened by an entirely manual process, hindering their operations in the digital age. There's an urgent need to modernize their approach.

## NEEDS

ANTAM's need is clear: they aspire to undergo a digital transformation to enhance efficiency and stay competitive in the artisanal mining sector.

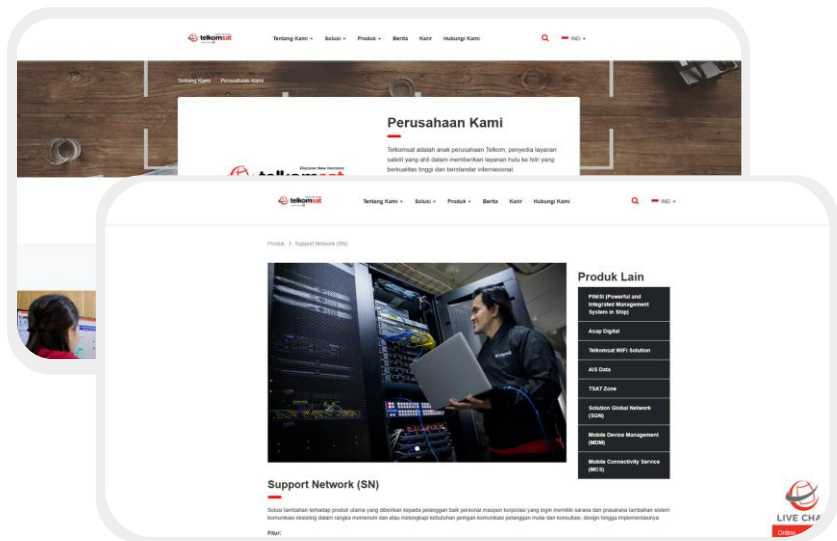
## SOLUTION

Our solution offers digital consulting services, guiding ANTAM through a strategic roadmap to digitalization. By helping them identify the right technologies, processes, and tools, we empower ANTAM to modernize their operations, streamline their workflow, and ultimately thrive in the digital era of artisanal mining.

# Telkomsat Digital Consulting Services



For More Details, visit [tandigital.id](https://tandigital.id) →



## PROBLEM

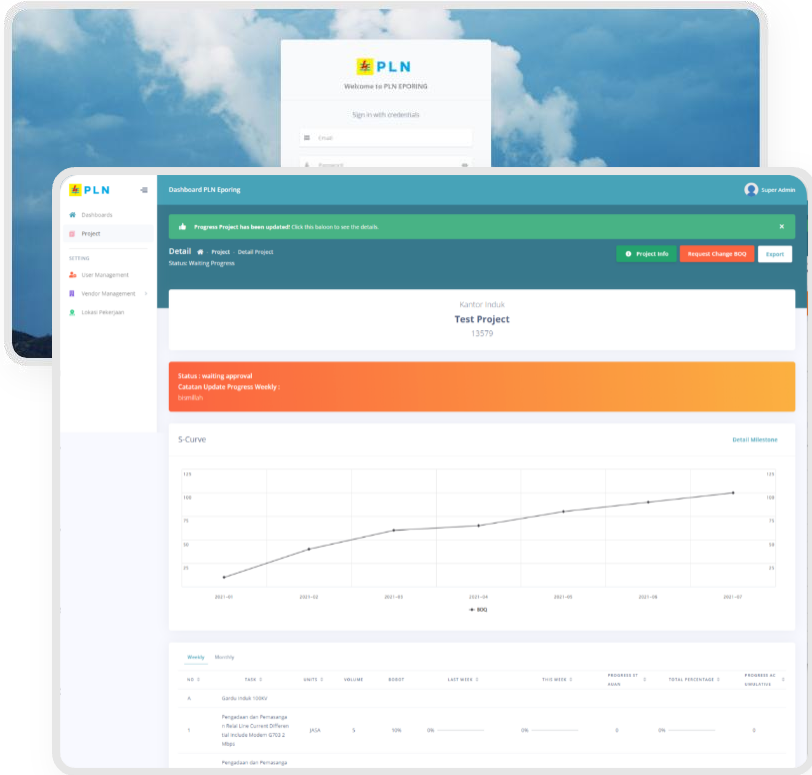
Telkomsat is undergoing a digital transformation initiative through baselining their needs for a clear and tangible programmes for managing their transformation aspirations.

## NEEDS

Telkomsat required a detailed analysis over their current business operations that would then be revalidated against industry benchmarks and also existing current gaps for their IT capabilities

## SOLUTION

We provisioned a detailed digital roadmap for Telkomsat to achieve their business objectives including detailing of project charter, relevant IT solutions, validation of existing enterprise architecture and also clear timelines and milestones to achieve their digitalization capabilities



# PLN's Project Monitoring System



For More Details, visit [tandigital.id](https://tandigital.id)

## PROBLEM

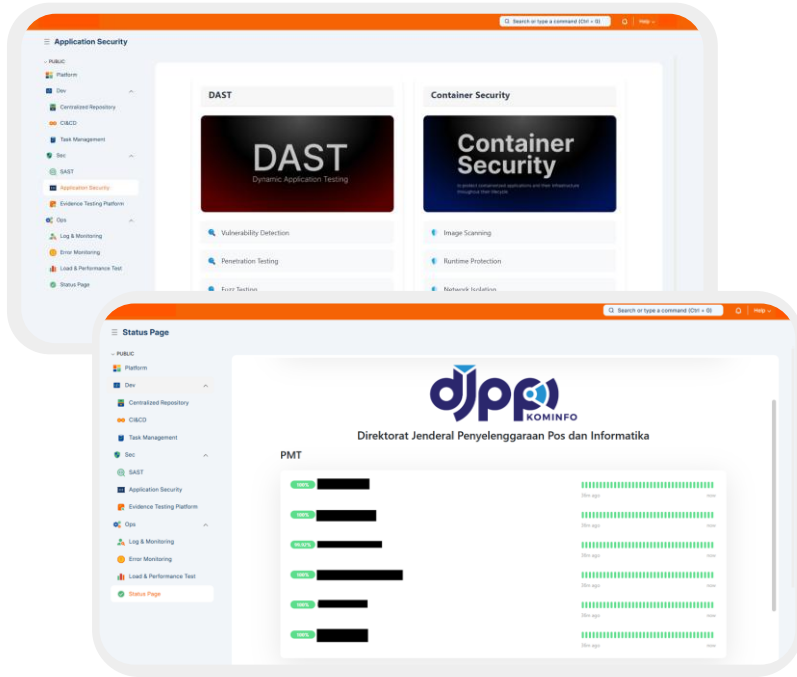
PLN (Perusahaan Listrik Negara) faced a challenge with their current project monitoring and procurement reporting process, which was entirely manual and lacked proper monitoring mechanisms. This outdated system hindered their ability to effectively track and manage projects conducted by vendors.

## NEEDS

PLN recognized the need for an online tracking and monitoring solution that would not only streamline their project management but also enhance their ability to monitor vendor activities and invoicing efficiently.

## SOLUTION

Our solution involves the development of a web-based application tailored for PLN's Procurement and Construction Division. This application enables real-time tracking and monitoring of all vendor activities, including project progress and invoicing. By transitioning from a manual process to this modern web-based system, PLN gains the tools they need to manage projects effectively and ensure seamless vendor coordination, ultimately increasing efficiency and accountability within their operations.



# KOMINFO PMT DSO Implementation

For More Details, visit [tandigital.id](https://tandigital.id)

## PROBLEM

with rising potential concerns for cybersecurity safeguarding against national asset, PMT was looking for a security proactive initiative to validate the security standards within its operations.

## NEEDS

The organisation was looking to implement a standardised security toolkit aligned with software security best practices to address its application security requirements through a centralised platform to manage its application security

## SOLUTION

We implemented a centralised security platform to integrate all the required security features including Task Management, SAST, DAST and also application monitoring capabilities to validate the security and availability status for the application within the organisation.

# Mitratel Secure SDLC Implementation



For More Details, visit [tandigital.id](https://tandigital.id)

## PROBLEM

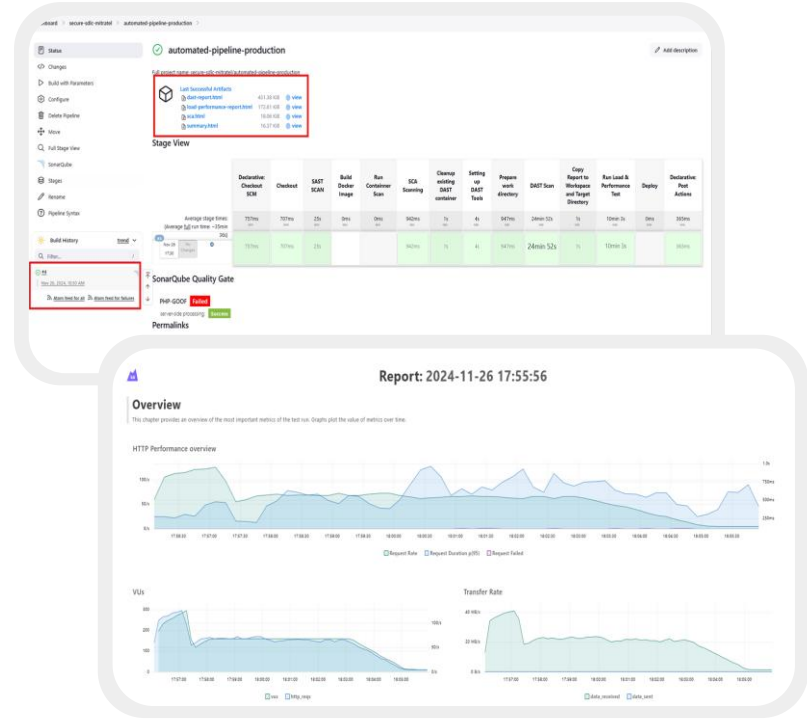
Aligned with increased security awareness, Mitratel was looking to implement a robust Secure SDLC mechanism to address security audit requirements and proactively safeguard its operational application prior before being released and also during its production period.

## NEEDS

Mitratel requires an end-to-end solution, covering rebaselining of its existing software development business process and also provisioning of DevSecOps tools within its IT environment.

## SOLUTION

We provisioned a comprehensive series of playbooks to enable the operationalisation of a secure SDLC framework aligned with best practices such as OWASP, ISO etc, along with related toolchain to enable the DevSecOps principles within the IT function.



## AI Implementation Device Detection

### PROBLEM

Device data reported from the field is not always validated, causing mismatches between photos and actual site equipment. Manual checks are slow and error-prone.

### NEEDS

Mitratel requires an automated mechanism to validate that the devices in captured images correspond with the devices reported in the system. This ensures that data collected from the field is both accurate and consistent with site inventory, reducing dependency on manual verification.

### SOLUTION

AI-powered device detection automatically identifies telco equipment such as antennas from site photos and cross-checks them against reported data. By validating the match between images and reports in real time, the solution improves data accuracy, reduces discrepancies, and provides a reliable foundation for anomaly detection and maintenance decision-making.

The screenshot displays the 'Device Detection Result' interface for a 'Tipe Tower: SST'. It features a central image of a tower with AI-detected devices labeled: RF (5), RRU (0), and MW (2). A 'Device Recognition Complete' status is shown at the top left, and 'Device Detected (7)' at the top right. Below the image, a 'Devices Successfully Identified' message states: 'Our AI has completed scanning and identified all network devices in this images. Each device has been precisely located and classified for your review.'

Below the image, there are three summary cards under the heading 'Jumlah Perangkat Per Site':

- AI Analysis:** RF: 5, RRU: 0, MW: 2
- Maintenance Report:** RF: 5, RRU: 0, MW: 2
- Device Asset Data:** RF: 5, RRU: 0, MW: 2

A 'Suggested Actions to be Taken' section contains a message: 'There's seem gap on the value device detected between three data source, please do visual validation of this site!'. At the bottom, there are two buttons: 'No Need Revalidation' and 'Revalidate'.

## AI Implementation Computer Vision

### PROBLEM

Site cleanliness checks are inconsistent and lack standardized criteria. Each mitra may interpret and report cleanliness differently, resulting in subjective assessments and data bias across sites and locations.

### NEEDS

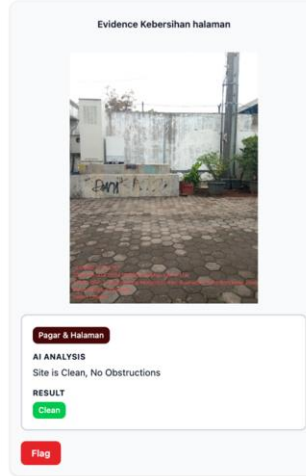
Mitratel requires a standardized and objective mechanism to evaluate cleanliness at every site. The system should capture details of trash, vegetation, and access conditions consistently across all locations, reducing dependency on subjective human judgment and ensuring fair benchmarking of site quality.

### SOLUTION

AI-powered computer vision establishes standardized rules for assessing cleanliness by analyzing captured site images. The system automatically detects deviations such as debris, overgrown vegetation, or blocked entry points and applies uniform evaluation criteria across all locations. This removes subjectivity, ensures consistent reporting, and enables reliable data for prioritizing corrective actions and maintaining compliance.

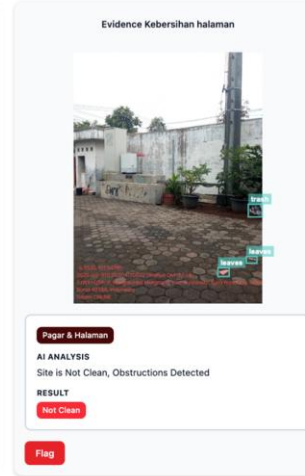
#### AI Assisted KPI

Evidence Kebersihan halaman



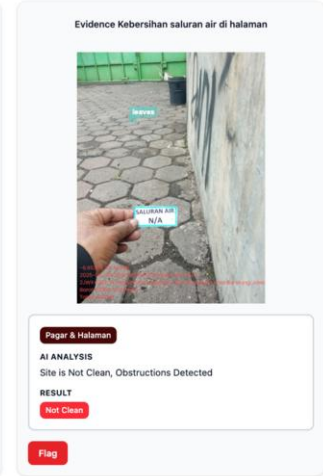
Pagar & Halaman  
AI ANALYSIS  
Site is Clean, No Obstructions  
RESULT  
Clean  
Flag

Evidence Kebersihan halaman



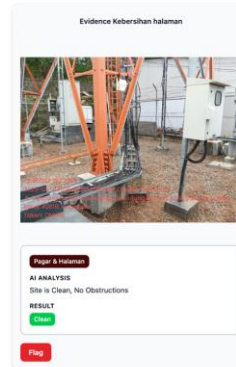
Pagar & Halaman  
AI ANALYSIS  
Site is Not Clean, Obstructions Detected  
RESULT  
Not Clean  
Flag

Evidence Kebersihan saluran air di halaman



Pagar & Halaman  
AI ANALYSIS  
Site is Not Clean, Obstructions Detected  
RESULT  
Not Clean  
Flag

Evidence Kebersihan halaman



Pagar & Halaman  
AI ANALYSIS  
Site is Clean, No Obstructions  
RESULT  
Clean  
Flag

Evidence Kebersihan saluran air di halaman



Pagar & Halaman  
AI ANALYSIS  
Site is Clean, No Obstructions  
RESULT  
Clean  
Flag

Evidence Kondisi Pintu Pagar (gerbang)



Pagar & Halaman  
AI ANALYSIS  
Site is Clean, No Obstructions  
RESULT  
Clean  
Flag

# Mitratel

## AI Implementation

### OCR

#### PROBLEM

Field technicians often capture avometer readings manually, leading to input errors, inconsistent reporting, and time-consuming verification. Handwritten or photographed readings are difficult to standardize and prone to misinterpretation.

#### NEEDS

Mitratel requires an automated way to extract and record avometer readings directly from captured images. This ensures that measurement data is accurate, standardized, and immediately available for analysis without manual transcription.

#### SOLUTION

AI-powered OCR automatically reads and digitizes avometer values from photos taken in the field. The system validates captured readings against expected ranges, reducing human error, ensuring consistent reporting, and speeding up data collection. This provides a reliable foundation for preventive maintenance, anomaly detection, and operational decision-making.



AI Assisted KPI

Evidence Pengukuran Posisi

Panel ACPDB, DCPDB, MDP & SDP	
THRESHOLD	-
RESULT	4.87
Flag	

Evidence Pengukuran Arus R (Ampere)

Panel ACPDB, DCPDB, MDP & SDP	
THRESHOLD	-
RESULT	4.87
Flag	

Evidence Pengukuran Tegangan RS (Volt)

Panel ACPDB, DCPDB, MDP & SDP	
THRESHOLD	342 v < x < 418 v
RESULT	393.00 v
Flag	

Evidence Pengukuran Tegangan ST (Volt)

Panel ACPDB, DCPDB, MDP & SDP	
THRESHOLD	342 v < x < 418 v
RESULT	397.00 v
Flag	

Non AI Assisted KPI

Evidence Pengukuran kebersihan Sight Glass & Box KWH Meter

Panel both meter dan temperatur	
THRESHOLD	-
RESULT	27.9812
Flag	

Evidence Pengukuran segeit KWH Meter

Panel both meter dan temperatur	
THRESHOLD	-
RESULT	27.9812
Flag	

Evidence Pengukuran titik stand meter Kwh

Panel both meter dan temperatur	
THRESHOLD	-
RESULT	27.9812
Flag	

# Mitratel

## Mobile AI

### Enhancement

#### PROBLEM

Site images captured by field technicians often lack consistency and clarity. Without clear and standardized guidance, the quality of photos varies greatly, even though a guidebook exists.

#### NEEDS

To address this, Mitratel requires a stricter and more practical approach. Instead of relying solely on static guidebooks, guidance must be delivered directly within the mobile app. This will ensure technicians follow standardized instructions in real time.

#### SOLUTION

The proposed solution is to enhance the existing mobile application by embedding built-in guidance features. This includes on-screen capture instructions, framing overlays, and automated quality checks such as blur or angle detection. By enforcing consistency at the point of capture, the solution guarantees that all images meet AI standards, ultimately improving recognition accuracy, anomaly detection, and the overall reliability of maintenance operations.

