



# COMPANY PROFILE

Our extensive portfolio of products/services caters to the diverse needs of our clients across various industries



ISO 9001:2015; ISO 14001:2015  
ISO 45001:2018



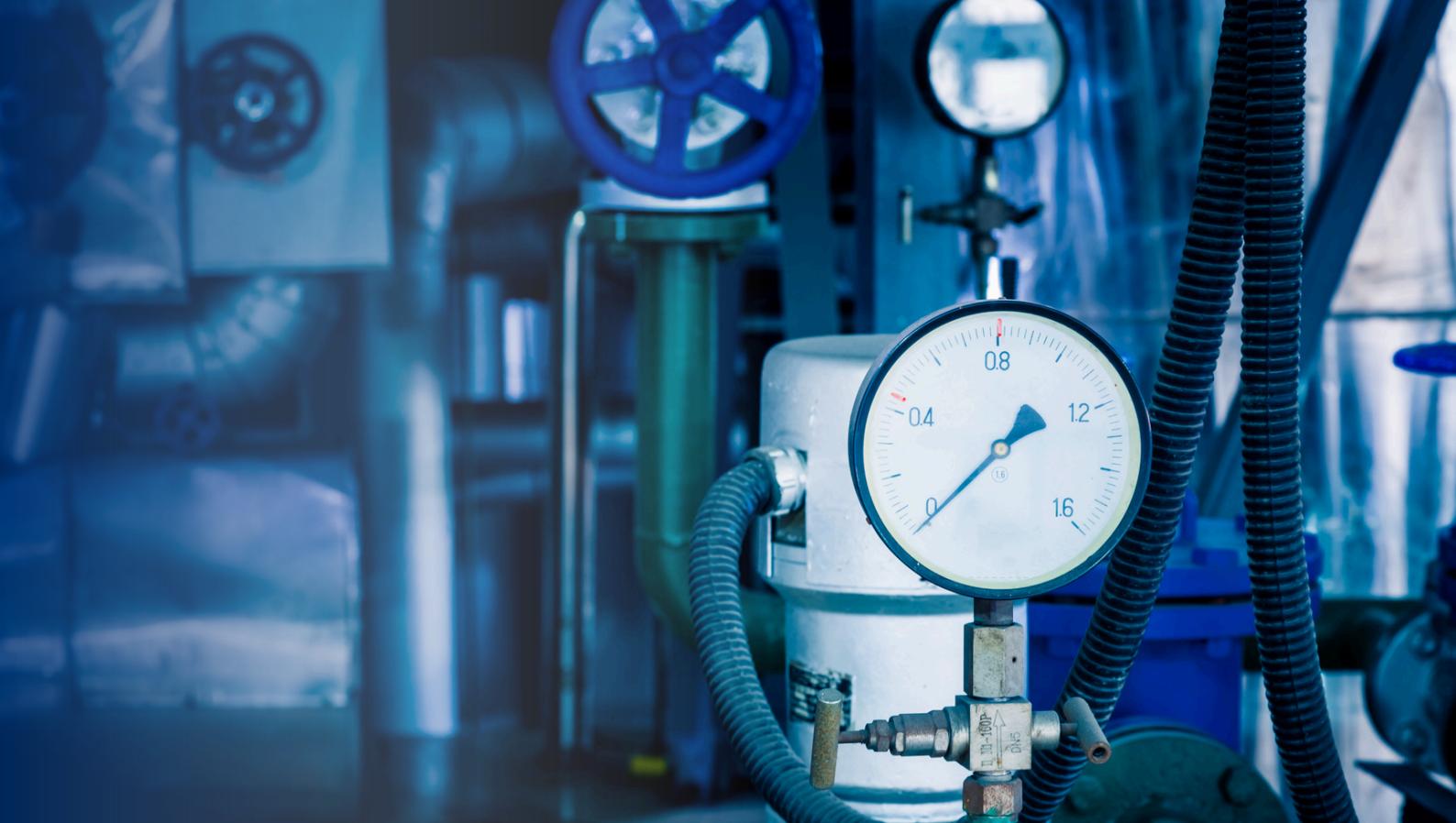
## CONTACT US

+62 21 29851728

[www.cliste.co.id](http://www.cliste.co.id)

[office@cliste.co.id](mailto:office@cliste.co.id)

Gandaria 8 Office Tower 8th Floor



## **“Alarms have never been enough”**

Alarms are important. They alert us when something goes wrong. But by the time an alarm goes off, the danger is already real, and sometimes, it's already too late. That's why relying on alarms alone isn't enough. Because behind every shift, every checklist, every system we maintain, there are people, real people, with families waiting at home.

Reliability isn't just about keeping machines running. Powered with AI automation, it is about making sure everyone makes it through the day safely. So no one has to answer a call that should never have come.

**This is more than engineering,  
This is our purpose!**

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# About Cliste Rekayasa Indonesia

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# INTRODUCTION

**Cliste Rekayasa Indonesia (CRI)** is a technology-driven, analytics-led engineering intelligence company specializing in AI-enabled digital asset management, reliability, and asset integrity for energy and industrial sectors. CRI combines advanced analytics, artificial intelligence, industrial IoT, and deep engineering expertise to support Maintenance and Reliability Excellence across the entire asset lifecycle from early design and commissioning to operation, optimization, and beyond.

At the core of CRI's innovation is **Excellence**, a proprietary digital platform that integrates AI-powered engineering analytics, computer vision for automated interpretation of P&IDs and engineering documents, and real-time IoT data to turn complex engineering information into confident, risk-aware decisions.

Backed by internationally certified reliability and safety professionals, CRI bridges traditional engineering practices with next-generation digital solutions, enabling organizations to improve safety, reliability, availability, maintainability, asset integrity, and sustainability while accelerating their digital transformation journey.



# Vision & Mission

Our vision and mission keep us grounded and focused. It shape how we grow, how we serve our clients, and how we contribute to building a more reliable and sustainable industry.



## Our Vision

To shape the **future of industrial Safety and Reliability** through data-driven Excellence and intelligent engineering solutions.



## Our Mission

To enable **Maintenance & Reliability Excellence (MREX)** by delivering analytics-driven consulting, intelligent engineering solutions, and practical training that create measurable impact.

# Our value

At Cliste Rekayasa Indonesia,

we believe that **excellence in the Reliability industry is not just a goal, but a continuous journey.**

Since our inception in January 2014, **we have been pioneers** in advancing Reliability standards in Indonesia and beyond.

Our commitment to innovation and quality has enabled us to successfully complete over 100 projects, serving a diverse range of clients across Indonesia, Malaysia, Thailand, and Qatar.

## Commitment to Excellence



We deliver high-quality, tailored solutions through our expertise in Safety, Asset Prioritization, RCFA, and RCM, helping organizations enhance efficiency and safety with reliable, top-tier results.

## Innovation and Continuous Improvement



We go beyond project completion by setting new standards through improved data visibility, equipment health programs, and continuous knowledge sharing, driving lasting impact and Reliability innovation.

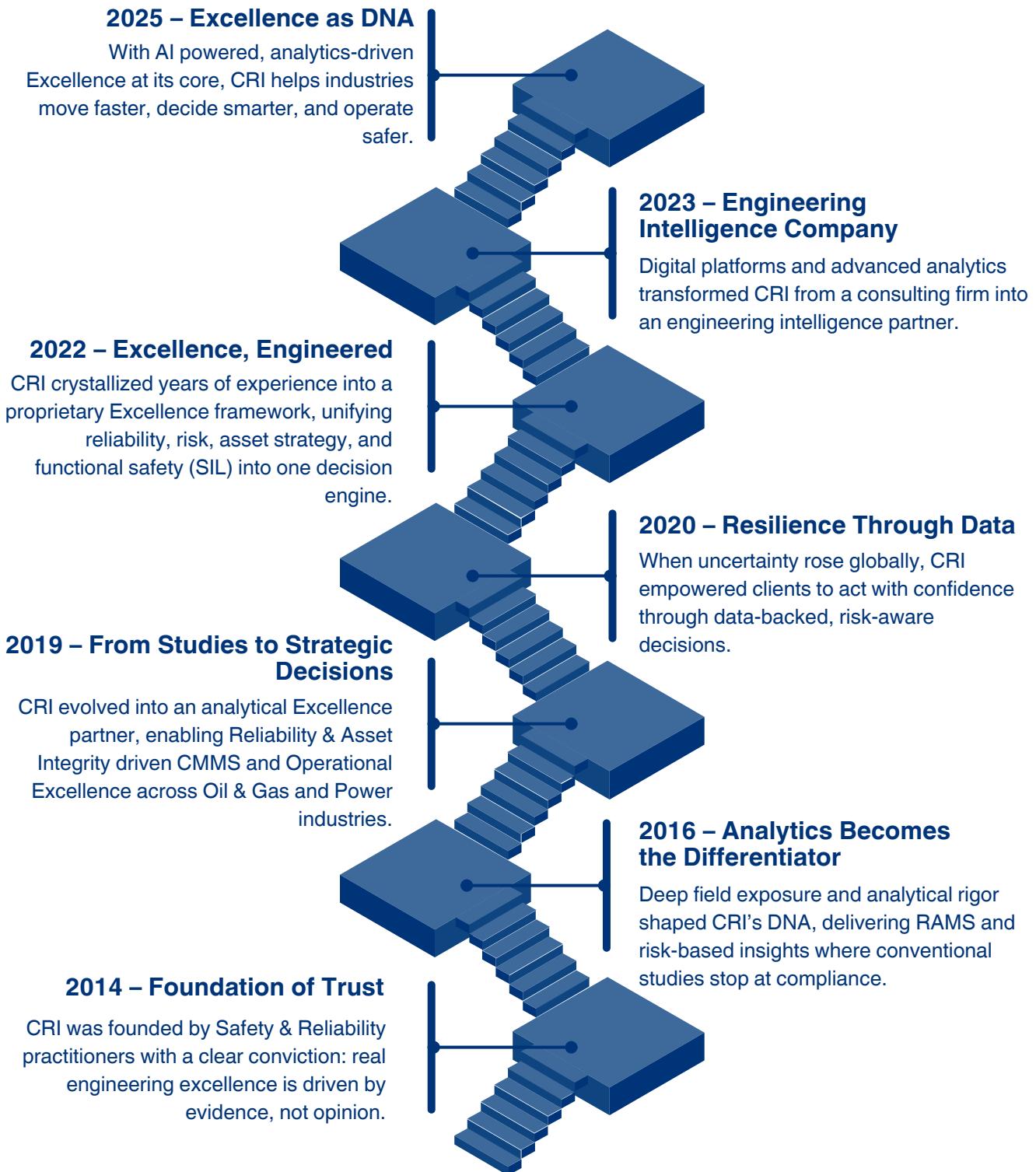
## Comprehensive Solutions



Our innovative web-based platform, **Excellence** is our customizable web-based CMMS, offering comprehensive modules like Asset Register, Spare Part Management, ECA, and RCM; providing an all-in-one solution for diverse business needs.

# CRI Journey of Excellence

Our journey reflects continuous improvement, expanding expertise, and proven results that show how our commitment to reliability and innovation drives measurable performance gains, strengthens client trust, and ensures sustainable asset reliability across every project we deliver.



# Our Excellent Team

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# Our Chief Executive Officer

## Chandra Salim

Ir., M.Sc., IPM, AER, CMRP

15+ years experience

RCM Facilitator Lv. 2

Mr. Chandra Salim is a Maintenance & Reliability Professional with more than 15 years of vast exposure in project development, commissioning, operation & maintenance, and decommissioning in Oil & Gas, Energy as well as Mass Transport (LRT) industries.

Specialized in Reliability & Asset Integrity Management, Reliability Availability Maintainability (RAM), Failure Mode, Effect & Criticality Analysis (FMECA), Root Cause Failure Analysis (RCFA), Reliability Centered Maintenance (RCM), Integrated Logistic Support (ILS), Safety Analysis, Improving visibility of Maintenance & Reliability Data, Overall Equipment / Machinery Healthiness program, Maintenance Strategy and Asset Management.



# Our Excellent Team



## SUPRAYOGA



Senior safety and reliability expert delivering risk-based solutions, technical authority, and long-term asset integrity across high-criticality industries worldwide with confidence.



### ABRAM DIONISIUS



Analytical reliability engineer enabling practical, data-driven decisions, asset integrity, and operational improvement across complex oil and gas facilities globally consistently.



### MUHAMMAD GILANG



Reliability & Asset Integrity leader providing analytical, performance-focused solutions across oil, gas, and power operations.



### DWI ROSYIDI



Reliability engineer delivering precise, structured analysis to strengthen asset integrity, risk control, and data-driven decisions across oil and gas operations.



### HABIL TRIA SAKTI



Experienced IT leader aligning robust systems, secure infrastructure, and full-stack expertise to drive scalable, reliable technology solutions for business.



### AKBAR MUCHLIS



Quality engineer embedding reliability, security, and automation into products through structured testing and predictable releases under real operational demands.



### TEGUH JUMADI



General affairs professional ensuring compliant, efficient operations through disciplined coordination, governance and reliable corporate support services



# Industries Served

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# Industries Served

We bring cross-industry expertise, with deep-rooted experience in the oil & gas sector as our core foundation.

Our understanding of **operational characteristics, regulatory demands, and technical challenges across industries** including energy, manufacturing, and utilities. Enables us to deliver reliability and asset management solutions that are relevant, data-driven, and focused on long-term performance improvement.



## Oil & Gas

With **extensive experience** in the oil and gas industry, Cliste Rekayasa Indonesia (CRI) supports clients across upstream and downstream operations by enhancing asset reliability, safety, and operational performance.

Our deep understanding of process systems, maintenance strategies, and regulatory standards allows us to deliver practical, data-driven solutions that improve efficiency and ensure sustainable production.



## Power Plant

In the power generation industry, reliability is vital to ensure continuous operation and compliance amid aging assets and the shift toward renewables.

CRI supports operators with digital CMMS, predictive diagnostics, and risk-based asset management strategies that maintain uptime, optimize efficiency, and strengthen trust in operational performance.



## Petrochemical

Petrochemical operations require absolute reliability, as every component carries financial and safety-critical importance.

CRI supports producers with asset management systems, reliability-based maintenance, and digital modernization to ensure stability, compliance, and adaptability in evolving market conditions.



## Transportation

In the transportation industry, reliability and maintainability of critical assets directly impact safety, service continuity, and system capacity. Complex interactions between rolling stock, track systems, power supply, signaling, and supporting utilities require structured maintenance strategies and data-driven decision-making.



## Training

Many organizations face challenges in fully implementing reliability and asset management practices due to limited awareness and skill gaps.

Through training, teams gain the knowledge and tools needed to apply best practices effectively and consistently.

CRI supports companies up to educational institutions in strengthening reliability awareness and engineering excellence through practical learning and applied methodologies.





# Capabilities & Deliverables

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# TOP SERVICE



## UP-RAISING SERVICE REQUEST

### New Development Applied Engineering

- Designed and built based on your operational requirements
- Complies with international standards and safety regulation
- Provides innovative, future-ready solutions



## MOST- ON DEMAND

### RAM Analysis

- Conducted with internationally recognized tools and methodology
- Provides clear performance baseline and improvement areas
- Supports investment optimization and operational reliability

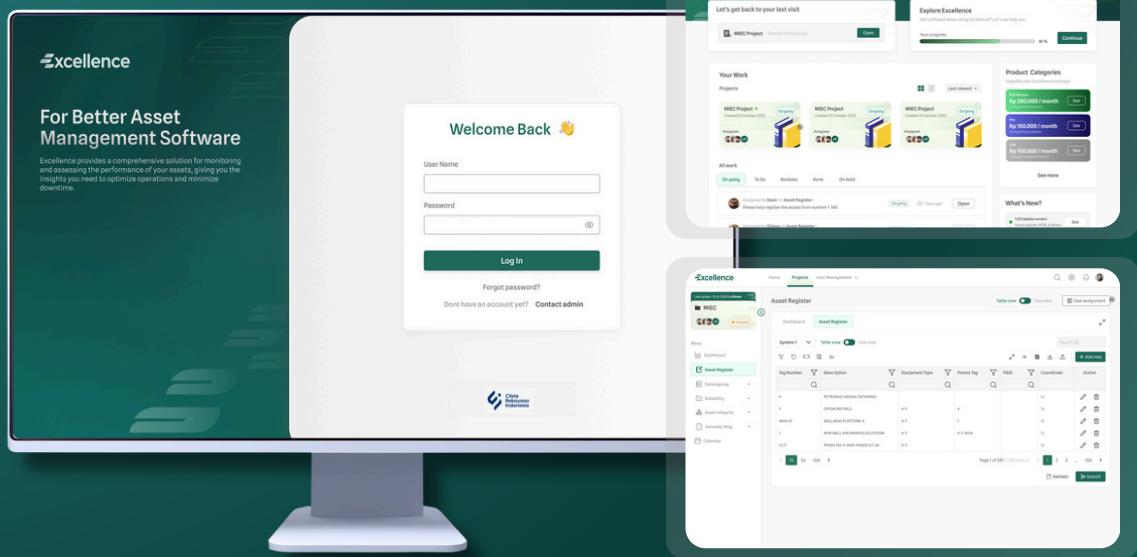


## GAME CHANGER SERVICES

### Software & Website Enhancement

- Refreshes outdated systems with modern UI/UX and features.
- Improves performance, security, and integration.
- Extends the life and value of your existing software.

# For a Better CMMS Software



## 1 Asset Register

Leverage AI to organize your equipment per standardized hierarchies, minimize human error, simplify management, and achieve a fully compliant digital asset register.

## 2 Cataloguing

Set clear naming rules, classifications, and technical details for all parts to avoid duplicates, streamline searches, and enable smart maintenance planning.

## 3 COMING SOON

<https://excellence-cmms.com/>

# Engineering Services & Operations

We offer reliability-centered engineering capabilities that enhance asset performance and operational safety. By combining structured analysis, risk evaluation, and maintenance optimization, **we help organizations make informed decisions throughout the asset lifecycle.**

Our key deliverables include, but are not limited to:



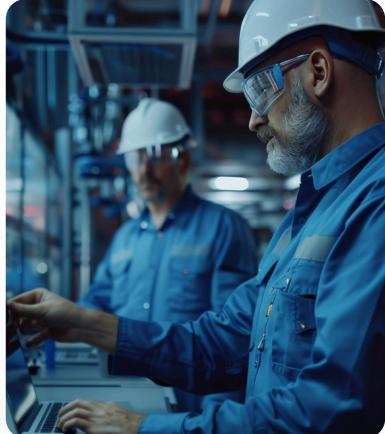
## Asset Register

Clear and structured record of all your assets to support decision-making.



## Bill of Material (BOM)

Complete material breakdown for efficient maintenance and planning.



## Material Cataloguing

Standardized and organized material database for smooth operations.



## Process Safety

Strengthened safety framework to protect people, assets, and the environment.



## Reliability Availability Maintainability (RAM)

Data-driven insights to maximize system performance.



## Risk Based Inspection (RBI)

Traditional inspection schedules often lead to unnecessary costs or missed risks.



## Reliability Centered Maintenance (RCM)

Optimized maintenance strategies aligned with asset function, risk, and cost.



## Safety Critical Element (SCE)

Focused identification and control of elements critical to preventing major accidents.



## Equipment Criticality Analysis (ECA) Quantitatively / Qualitatively

Clear prioritization of equipment based on operational and safety impact.



## Pre Activity Safety Review (PASR)

Structured risk checks to ensure safe execution before work begins.



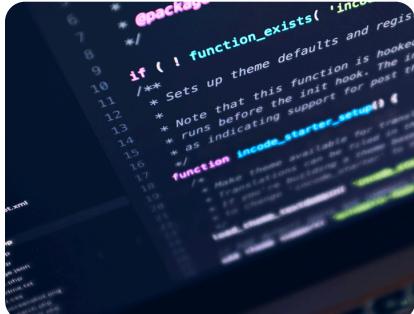
## Reliability & Asset Management Training

Practical capability building to embed reliability and asset management best practices.

# Software Development

We develop tailored digital solutions to support reliability, maintenance, and operational excellence. Our capabilities cover system design, data integration, and user-focused interfaces that align with engineering and business needs.

Our key deliverables include, but are not limited to:



## Software & Website Enhancement

Outdated systems limit efficiency and growth.

CRI revitalizes legacy software or websites with a fresh design, stronger security, and better performance, so your technology keeps pace with your business.



## Reliability & Maintenance Engineering Software

We design and develop software that helps organizations maintain accurate asset records, perform structured maintenance analysis, and make informed engineering decisions.



## Computerized Maintenance Management System (CMMS)

Many companies still struggle with manual processes, scattered maintenance data, and a lack of real-time visibility. Meanwhile, industry digitalization demands speed, accuracy, and data-driven decision-making.



## Custom Software Development

CRI offers Custom Software Development that allows businesses to create applications built around their exact requirements whether in reliability engineering or beyond helping them stay agile and competitive.

# ACKNOWLEDGEMENT



We sincerely **appreciate the trust and collaboration** of our clients and partners. Their support inspires us to keep improving our capabilities, deliver meaningful impact in their operational performance, and take part in advancing national progress through innovation and reliability.

# Experiences

## Services and Training

Date	Engineering services and Training Project	Main Contractor & End User
2025	Reliability-Centered Maintenance JOB Tomori South Senoro	PT Adikari Wisesa Indonesia  End User: JOB Pertamina MEDCO Tomori
2025	Facilitator Support RCM Level II: <ul style="list-style-type: none"><li>• RCM Training</li><li>• Real Data Coaching</li></ul>	PT Rekayasa Engineering  End User: Star Energy Geothermal (Salak, Drajat & Wayang Windu)
2025	RAM Study Batch 1: <ul style="list-style-type: none"><li>• WO data cleansing report on equipment listed in reliability blockdiagram</li><li>• Developing and reporting Reliability Block Diagram (RBD) and reliability characteristics of each equipment</li><li>• Comparison between EPC stage assumption and current plant configuration and equipment performance history</li></ul>	PT Donggi Senoro LNG
2025	Consulting Services for Continuous Improvement in Asset Management: Reliability Data & Management Support	PT Rante Mainta Servis  End User: PT Geo Dipa Energi
2025	HAZOP (Hazard and Operability) and HAZID (Hazard Identification) Workshop for the Preparation of Re-Front End Engineering Design (Re-FEED) Documentation	PT Kwarsa Hexagon  End User: PT Geo Dipa Energi

# Experiences

## Services and Training

Date	Engineering services and Training Project	Main Contractor & End User
2025	The Provision of EPCIC of Integrated Wellhead Central Processing Platforms Subsea Pipeline and PLET for Hidayah Field Phase 1 Development Project	PT Singgar Mulia  End User: Petronas Carigali Ketapang II Limited
2025	RAM Study for FEED Betara Gas Plant LLP Petrochina Jabung	PT Reka Patria Ekaguna  End User: PetroChina Jabung Indonesia
2025	Development of Electrical & Instrumentation Integrity Management System (EIIMS) Technical Guidance JOB Pertamina MEDCO Tomori	PT Adikari Wisesa Indonesia  End User: JOB Pertamina MEDCO Tomori
2024	Reliability Works for JOB Pertamina MEDCO Tomori	PT Adikari Wisesa Indonesia  End User: JOB Pertamina MEDCO Tomori
2024	Provision of Reliability Maintenance Engineering Services	PREMIER OIL NATUNA SEA BV, a Harbour Energy Company
2024	Assesment ECA FSCA dan Update Master Data Equipment RU VII Kasim	PT LAPI ITB  End User: Pertamina RU VII Kasim
2024	Reliability, Availability, and Maintainability (RAM) Analysis	PT Adikari Wisesa Indonesia  End User: PT Geo Dipa Energi

# Experiences

## Services and Training

Date	Engineering services and Training Project	Main Contractor & End User
2024	RAM Study for FEED Services for Hidayah Development Project, include RAM Term of Reference and RAM Study Report	Technip Energies
2024	Provision of Reliability Engineering Maintenance Services (Bridging Contract)	PREMIER OIL NATUNA SEA BV, a Harbour Energy Company
2023	Asset Management Web App Development	PT SPIE Oil & Gas Services  End User: Petronas Carigali Ketapang II Limited
2023	Provision of Reliability Engineering and Services	PREMIER OIL NATUNA SEA BV, a Harbour Energy Company
2022	Engineering Study & Review Serta Pembuatan Dokumen Operation & Maintenance	PT KPM Oil & Gas  End User: MEDCO ENERGY
2022	TRAINING  Preparation of Certified Maintenance & Reliability Professional (CMRP) certification for Petronas	PT Rekayasa Solverindo (Reksolindo)  End User: Petronas Carigali Ketapang II Indonesia

# Experiences

## Services and Training

Date	Engineering services and Training Project	Main Contractor & End User
2021	Supervision of SIL Certification for Transmitter KS-XX1000 Series of Korosi Specindo	PT Korosi Specindo
2021	TRAINING  Pelaksanaan Pembelajaran Reliability Engineering Angkatan 1	PT PLN (Persero) Unit Pelaksana Pendidikan dan Pelatihan Tuntungan (Learning Unit)
2021	Reliability Availability Maintainability (RAM) Study Analysis for Star Energy Geothermal	PT SBS Indonesia  End User: Star Energy Geothermal
2021	SOFTWARE DEVELOPMENT  Daily Activity Monitoring System - Next Generation (DAMS-NG) Development	Kementerian Keuangan Republik Indonesia  Sekretariat Jenderal Pusat Sistem Informasi dan Teknologi Keuangan (PUSINTEK)
2021	Provision of Alarm Management System	PT Meindo Elang Indah  End User: Petronas Carigali Ketapang II Ltd.
2021	Pekerjaan Pengadaan Materi Maintenance & Reliability Professional	PT PLN (Persero) Unit Pelaksana Pendidikan dan Pelatihan

# Experiences

## Services and Training

Date	Engineering services and Training Project	Main Contractor & End User
2021	<p>TRAINING</p> <p>Pelaksanaan Pembelajaran Maintenance &amp; Reliability Excellence - Module Equipment Reliability Angkatan 1</p>	<p>PT PLN (Persero) Unit Pelaksana Pendidikan dan Pelatihan Tuntungan (Learning Unit)</p>
2020	<p>Plan Information System Core Sight Enhancement at Petronas Bukit Tua Gresik Station</p>	<p>PT Istana Karang Laut</p> <p>End User: Petronas Carigali Ketapang II Ltd.</p>
2020	<p>HAZID and HAZOP Study</p>	<p>PT. Adhi Karya (Persero) Tbk. Departemen EPC</p> <p>End User: Perusahaan Gas Negara</p>
2020	<p>Asset Integrity and Plant Reliability Integrated Services and Software Development</p>	<p>PT SPIE Oil &amp; Gas Service Indonesia</p> <p>End User: Petronas Carigali Ketapang II Ltd.</p>
2020	<p>TRAINING</p> <p>Reliability Availability Maintainability (RAM) for Sea Water Intake System</p>	<p>PT Rekayasa Solverindo (Reksolindo)</p> <p>End User: Syiah Kuala University Aceh</p>

# Experiences

## Services and Training

Date	Engineering services and Training Project	Main Contractor & End User
2019	SOFTWARE DEVELOPMENT Work Inspection List Mobile Application development	PT Spie Oil & Gas Service Indonesia End User: Chevron
2019	Provision of Reliability & Asset Integrity, Corrosion Management Plan, Operations Readiness Strategic Assurance, Process Safety Management for EPCI and Commissioning of BTJT-B Wellhead Platform, Infield Pipelines and Host Tie-In Modification for Bukit Tua Phase 2B Development Project PC Ketapang II Ltd	PT Meindo Elang Indah End User : Petronas Carigali Ketapang II Ltd.
2019	Provision of Process Safety Assessment CCGT Power Plant 1760MW (Jawa 1)	PT Meindo Elang Indah End User : PLTGU Jawa 1
2019	Provision Of Bukit Tua ORF Gas Metering Services	PT Istana Karang Laut End User : Petronas Carigali Ketapang II Ltd.
2019	Bukit Tua ORF DCS Cyber Security Assessment	PT. Istana Karang Laut End user: Petronas Carigali Indonesia
2019	Provision for Services of ECA, ITPM and SCE for Bukit Tua ORF	PT. MEINDO ELANG INDAH End User : Petronas Carigali Ketapang II Ltd.

# Experiences

## Services and Training

Date	Engineering services and Training Project	Main Contractor & End User
2019	Pipeline Uncertainty and Reliability Analysis	PT Istana Karang Laut  End User: PETRONAS CARIGALI MURIAH Ltd (KEPODANG Field)
2019	Proactive Maintenance Services	PT Daun Biru Engineering  End user: Premier Oil Natuna Sea BV
2019	Provision of Manpower for Testing and Commissioning	PT Adhi Karya (Persero) Tbk Departemen EPC  End User: Kementerian Perhubungan
2019	Technical Service Assistance for Operation Philosophy	PT Singgar Mulia  End User: Petronas Carigali Indonesia
2019	Pipeline Uncertainty & Reliability Analysis	PT Istana Karang Laut  End user: Petronas Carigali Indonesia
2019	Technical Service Assistance for Reliability Engineer	PT Singgar Mulia  End User: Petronas Carigali Indonesia

# Experiences

## Services and Training

Date	Engineering services and Training Project	Main Contractor & End User
2019	Technical Service Assistance for Reliability Engineer	PT Singgar Mulia End User: Petronas Carigali Indonesia
2019	Quantitative Reliability Assessment with Detail RCM Aiming Extension	PT Singgar Mulia End User: Petronas Carigali Indonesia
2019	Provision of Manpower for Testing and Commissioning	PT Adhi Karya (Persero) Tbk Departemen EPC End User: Kementerian Perhubungan
2019	Spare Part Management Calculation and Report	PT Adhi Karya (Persero) Tbk Departemen EPC End User: Kementerian Perhubungan
2018	IPF Management & Alarm Rationalization Bukit Tua & Kepodang	PT Singgar Mulia End user: Petronas Carigali Indonesia
2018	Reliability Performance Monitoring (RPM) Phase II for Petronas Carigali Indonesia	PT Rekadia Solusi Teknologi End user: JOB Pertamina Medco Tomori

# Experiences

## Services and Training

Date	Engineering services and Training Project	Main Contractor & End User
2018	Reliability Performance Monitoring (RPM) Phase I for Petronas Carigali Indonesia	PT. Rekadia Solusi Teknologi End user: JOB Pertamina Medco Tomori
2018	Development Service for Historical Critical Equipment Database at Refinery	PT LAPI ITB End User: PT Pertamina (Persero)
2017	Real-Time Dashboard Development Service for Coresight Display	PT LAPI ITB End User: PT Pertamina (Persero)
2016	Reliability Centered Maintenance services for JOB Tomori Asset	PT SCADA PRIMA CIPTA End user: JOB Pertamina Medco Tomori
2015	Development and Enhancement of Modules for the Equipment & Plant Reliability Monitoring Management System at Pertamina Refinery Unit VI Balongan	PT LAPI ITB End User: PT Pertamina (Persero) RU VI Balongan
2015	Streamlined Reliability Centered Maintenance (SRCM) Service Balikpapan 1 PT Pertamina (Persero) RU V Balikpapan	PT LAPI ITB End User: PT Pertamina (Persero) RU VI Balongan

## **Head Office**

Gandaria 8 Office Tower 8th Floor  
Jl. Sultan Iskandar Muda. Jakarta  
Selatan, 12240

## **Remote Office**

Lebak Lestari Indah Residence Jl.  
Cempaka Lestari IV No.G/3 14,  
RT.14/RW.7, Lb. BulusKec, Kec.  
Cilandak, Kota Jakarta Selatan, Daerah  
Khusus Ibukota Jakarta 12440

## **CONTACT**



+62 21 29851728 / +62 812 1981 0869



office@cliste.co.id



Cliste Rekayasa Indonesia

<https://cliste.co.id>

