turatech

Company Profile

Senior Executive Greeting

Sri Rahardjo

Greetings to our respectable partners,

I am the Senior Executive of TURATECH,
Sri Raharjo, M. Eng

I am delighted to introduce TURATECH as part of a pioneer of Indonesian techno-solution provider and IT company with focus in mining & energy industry.

TURATECH is a part of TURA GROUP and also in affiliation with Tura Consulting Indonesia. TURATECH has an enormous journey and been growing along with TURA GROUP. Since starting this company, it has become clearly that while the mining and energy industry remains an attractive sector, it is entering a period of significant change bringing both challenges and opportunities.

As a professional IT company in Indonesia, our commitment is to provide added value techno-solution in form of excellent IT services and products in order to support sustainable growth of Indonesian mining and energy industry. We also committed to develop and provide IT services and products in supporting the government and industries in order to optimize mining and energy role as a prime mover of sustainable development, especially in this very moment of Industry 4.0. We do hope our IT services and products could also be part of our contribution to bring mining and energy sector closer to the public.

We believe that by performing those missions and applying our core values of professionality, integrity and solidarity in all of our actions, we could achieve our vision to be the most valuable IT company in Indonesia's mining and energy sector.

In the past decades, digitalization has grabbed attentions from many stakeholders and become significant for global mining sector as cohesive approach to reach more efficient, effective, adaptive and sustainable mining operations. There are several key drivers that make mine digitalization application become largely required to provide better information for monitoring, controlling, analyzing, and mitigating the risk of future uncertainty, for instance, the changes in supply-demand due to price volatility, end-market consumption trends, circular economy initiatives, resources scarcity and reserve depletion, a growing awareness of sustainable environment and social responsibility.

Digital technologies have tremendous potential to bring a significant added value and growth to mining and energy stakeholders. For example, there are mine digitalization approach can be applied in mining and energy value chains:

1. Sensory automation and robotics operational hardware/equipment,
2. Real time integrated database platform and information systems,
3. Digitally connected workforce, and
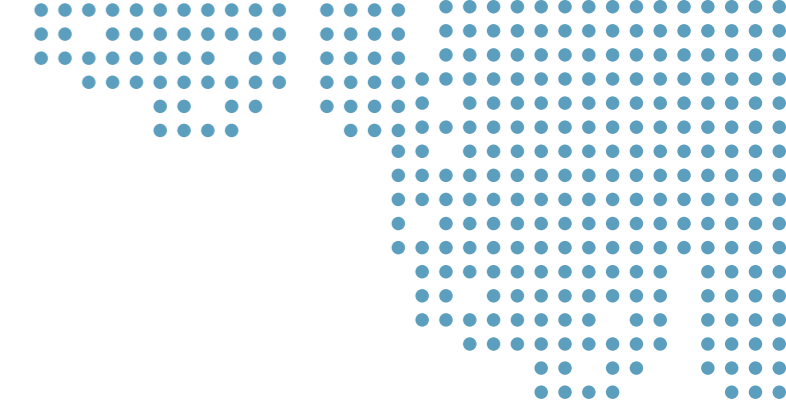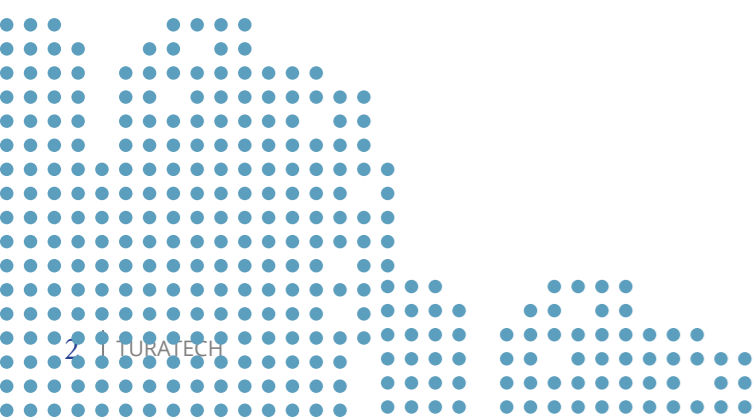4. Cloud based analytics & decision making support.

Advances in digital technology could benefit mining and energy industry in various ways, such as increase in overall equipment effectiveness, increase operational safety, faster and better decision making as well as overall operational cost efficiencies.

As a country with a strategic position over global mining and energy commodities supply chain, Indonesia should accommodate and apply digitalization in mining and energy industry as one of many solution to overcome the industry's barriers and challenges. Several difficulties are commonly faced by mining and energy stakeholders: the needs for techno-solution to increase overall operation efficiencies, lack of integrated and comprehensive database, lack of regulation compliance, lack of interconnected equipment-human ecosystem in field operations to provide real time data analytics and decision making, and the needs for digitally connected workforce to enable safer and healthier mine operations and mine environments.

We believe that despite high investment is required, the implementation of digital technologies will yield benefit for the stakeholders both in the short run and in the long run. We do put our best efforts to provide the most valuable techno-solution while optimizing the available resources. Our commitment is to develop IT services and products by using cutting edge digital information technology. This is supported by our team that widely experienced in mining and energy industry both in national and international level as well as supported by our strength in project management.

Finally, we proud to contribute and take part in growing Indonesia's mining and energy sector by continuously develop and provide the most valuable IT services and products to benefit the mining and energy stakeholders.
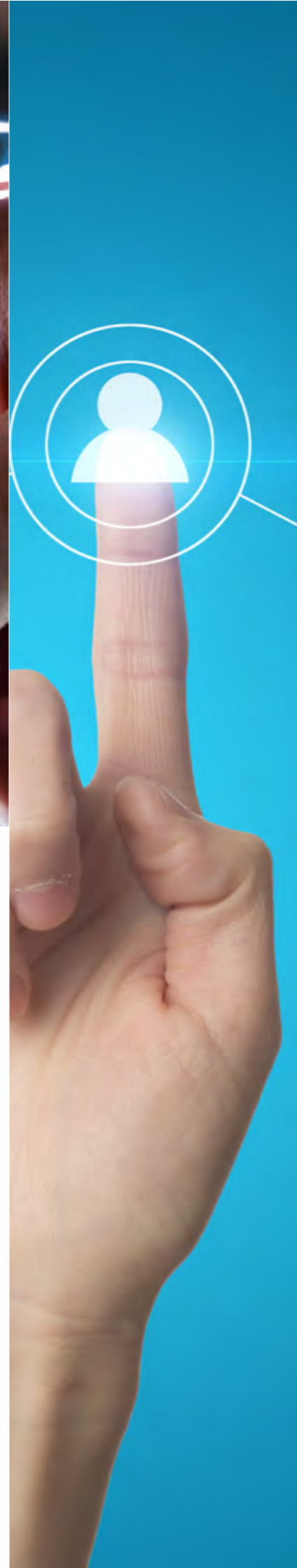
PT Tura Teknologi Informasi

Inspiring Technology In Mining

We endeavor to be the most valuable IT company in mining and energy sector

PT Tura Teknologi Informasi is Indonesian IT Mining company which founded to meet the requirements of worldwide mining and energy customers and committed in providing IT products and services in order to support sustainable growth of mining and energy industry.

Our vision is to become the most valuable IT company in mining and energy sector which deliver the excellence values to customers. This commitment is fulfilled by continues improvement of our core competency in IT of Mining and Energy, supported by dedicated research and development team which consist of Mining, Energy, and IT experts with international experiences.

Our Vision

Become the Most Valuable IT Company in Mining and Energy Sector

Our Mission

1. Deliver excellent IT services and product in order to support sustainable growth of Indonesian mining and energy industry
2. Support the government and industry in IT services and product in order to optimize mining and energy role as a prime mover of development
3. Bring mining and energy sector closer to the public

Our Value

Professionality, Integrity, and Solidarity

Our Strategy

1. Continuous improvement in human capital, technology and services
2. Dedicated research and development team
3. Strengthen relation with the stakeholders
4. Perform good corporate governance

Our Team

We can achieve it because
our people work together
with passion

Our team consists of Mining and IT experts
who have national and international experiences.

Sri Raharjo
Mining Digitalization and Automation, Technology Innovation Conceptor, Mining 4.0 based Policy and Regulation, Business Strategy and Development, Global and National Stakeholder Relation

Anoko Kusuma Ari
Engineering and Art

Herdian Ganda Wijaya
Mining Engineering; Mining Technology Integration; Fleet Management System; Project Management; Mining Improvement

Istuti Apriyanti Syahrir
Technical Writer; System Analyst

Raden Bangun Hartani
Software Architect; Data Warehouse; Architect Enterprise Application with Java EE; Enterprise Resource Planning; Project Management; Full Stack Developer; Certified Ethical Hacker; ISO 27001:2013 Internal Auditor; Open Source Contributor

Deby Ramadhana
Technical Writer

Resvani
Business Administration; Mining Policy and Regulation; Government, Investor and Stakeholder Relation; Business Strategy and Development

Pitrasacha Adytia
Software Engineer; Mobile Application; Business Intelligence; Risk Management

Fikri Irsyad
Business Development; Marketing; Energy and Mineral Expert

Irvan Aji Pratama
Project Management; Process System

Yopi Ahmad Hanafi
Software Engineer; Information Technology and System; Artificial Intelligence

Salmawati
Numerical Modelling; Programmable Logic Controller; Telemetry System; Internet of Things

Dery Febriantara
Software Engineer; Mobile Application; Network Infrastructure
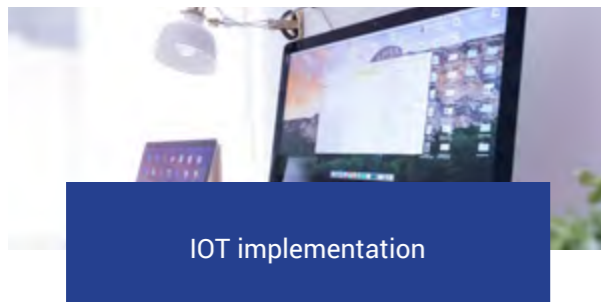
Hanif Ikhsan Pratama
Optimization Modelling; Energy System

Our
Services

System Information assessment & assistance

Application Development on the multi based platform

IOT implementation

Telemetry Development System

Mining & Energy Developing Database System

Network Infrastructure Solution

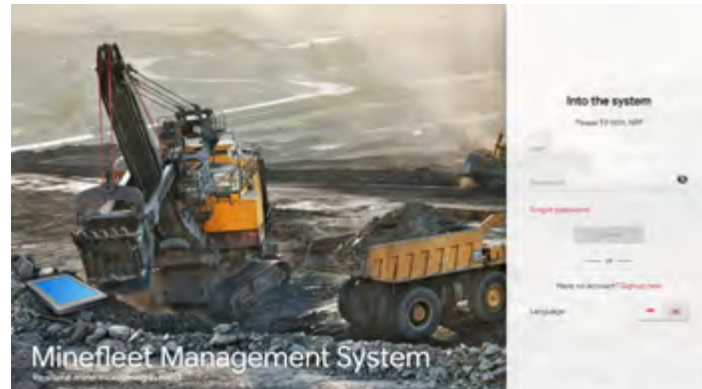**Mining IT Integrated Solution**

Mine ERP Implementation System

Our
Products

Mine Fleet	Fleet Management System (FMS)
MineOpS	Mine Operational System (Digital Checker)
E-Profiler	RKAB Online
Mine_WS	Mine Water Monitoring System
Mine_SmartLink	Network Link System
OLS	Online Learning System
Mine_TS	Mine Telemetry System
Mine_AirSys	Mine Air Monitoring System
TURA_HR	HR Management System
Mineboard	Mine ERP System

MineFleet

Mine Fleet Management System

Minefleet Management System

TURA MineFleet is Fleet Management System that originally developed by TURA team, it offers complete menu to facilitate mine operational, some features are related to vehicle tracking, operator management, Dispatch management, Equipment health, user management and also facilitated with attractive & complete Dashboard & report.

TURA Mine Fleet is also accommodating complete business process in the operational of mining not only focused on mine operational but also concern on safety, logistic & maintenance. This fleet management system is also supported with reliable hardware or device that will be installed to the Equipment.
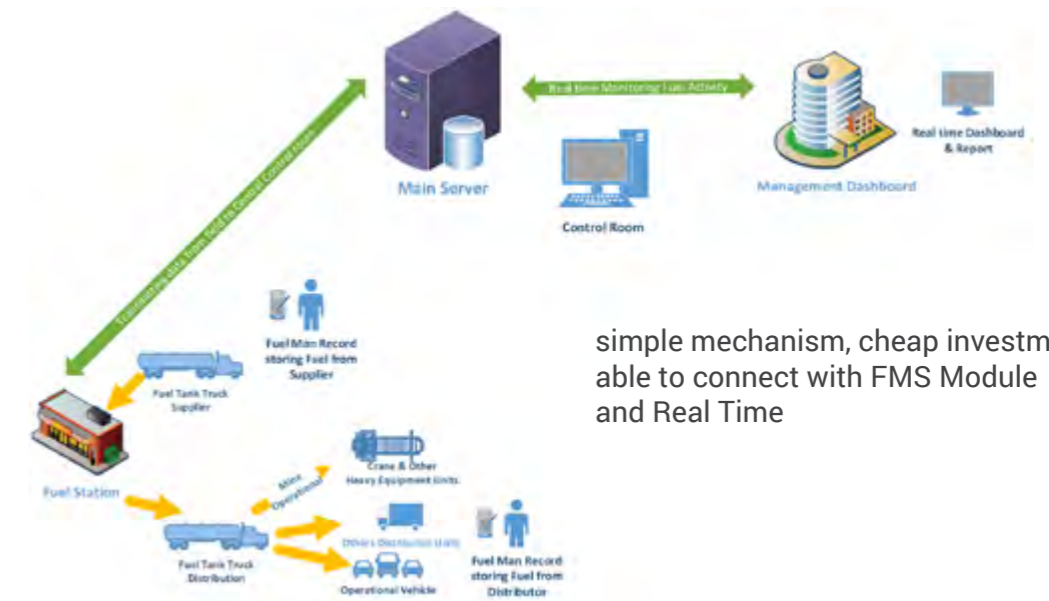
Features of Functionality

- Vehicle Tracking
- Safety Support
- Operator Management
- Dispatch Management
- Fuel Management
- User Management
- Equipment Health
- Asset Management

Features of System

- Reliable Device
- Dynamic Setting
- One Company One License
- Integration Opportunity
- Complete Mine Operation Module
- Attractive Dashboard

Tracking Utility

Dispatch Managemeent

User Management

Operator Management

FuelMS Part of **MineFleet**

The Concept

simple mechanism, cheap investment, able to connect with FMS Module and Real Time

Goals

- More Structured and Organized data compared to manual recording
- Real time information
- Data Inventory
- Historical Data Tracking
- Performance Dashboard Monitoring
- Improvement activity in more efficiency of fuel cost allocation
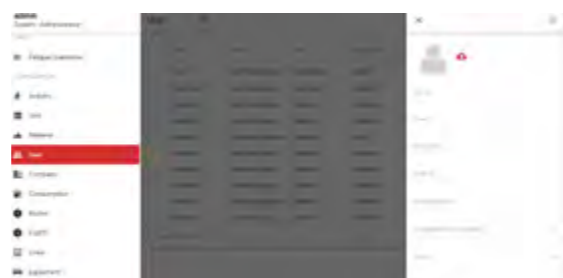
Features – Fuel MS App

- Login - Logout
- Fuel Stock
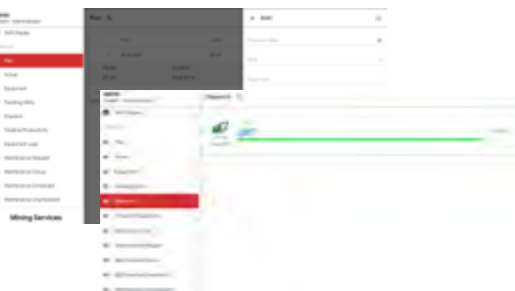- Fuel Truck
- Fuel Unit
- Data Master
- Offiline System

Fuel Management System

- Record Storing fuel from Supplier
- Record Storing fuel from Internal Storage to Truck Distributor
- Record Storing fuel from Truck Distributor to units (HE Units)
- Capture HM Units
- Capture Fuel Man and Units Operator include Driver units
- Capture Unit Identity include (Fuel Track and Units Recepient)
- Capture refueling date and time
- Inform the last store fuel Quantity
- Inform the last HM

Fleet Management System

- Record Real Time activity Units
- Record HM units
- Record Total Fuel Consumption Units
- Record production achievement
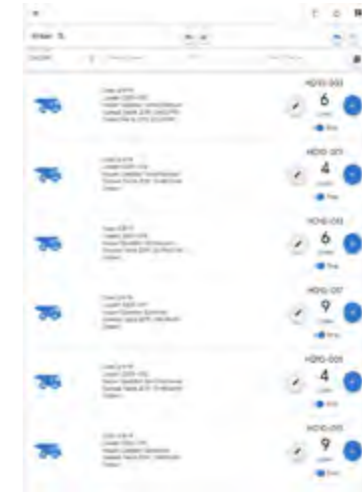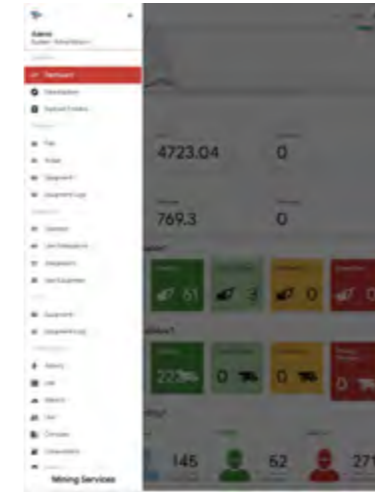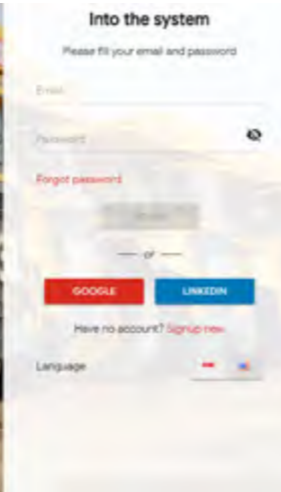
Fuel Management Dashboard

- Inform Fuel Inventory in Main Tank (Main Internal Storage)
- Inform Fuel Inventory in each fuel tank distributor
- Inform fuel left on each units
- Present Fuel Ratio of Units
- Present Units Performance based on Fuel rate consumption
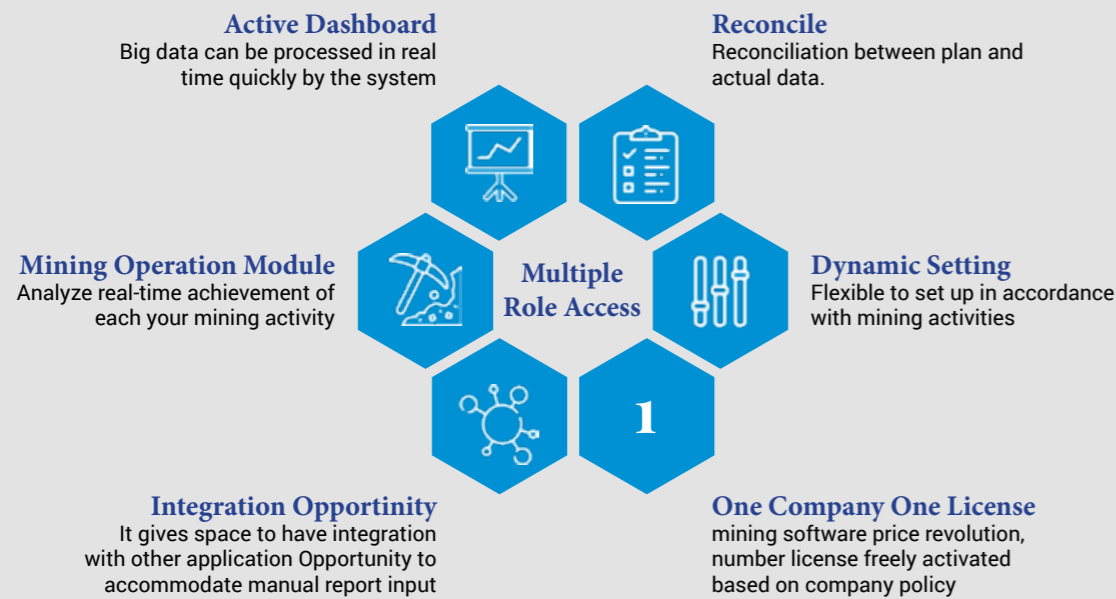- Able to show fuel operational cost if connect with fuel cost

MineOps

Mine Operational System

TURA MineOpS is application that basically digitalizing manual production record that conducted by Checker. Simply, Reliable, & Real time besides also facilitated with the attractive dashboard & report, & also open for the integration will give much support to the mine operational.
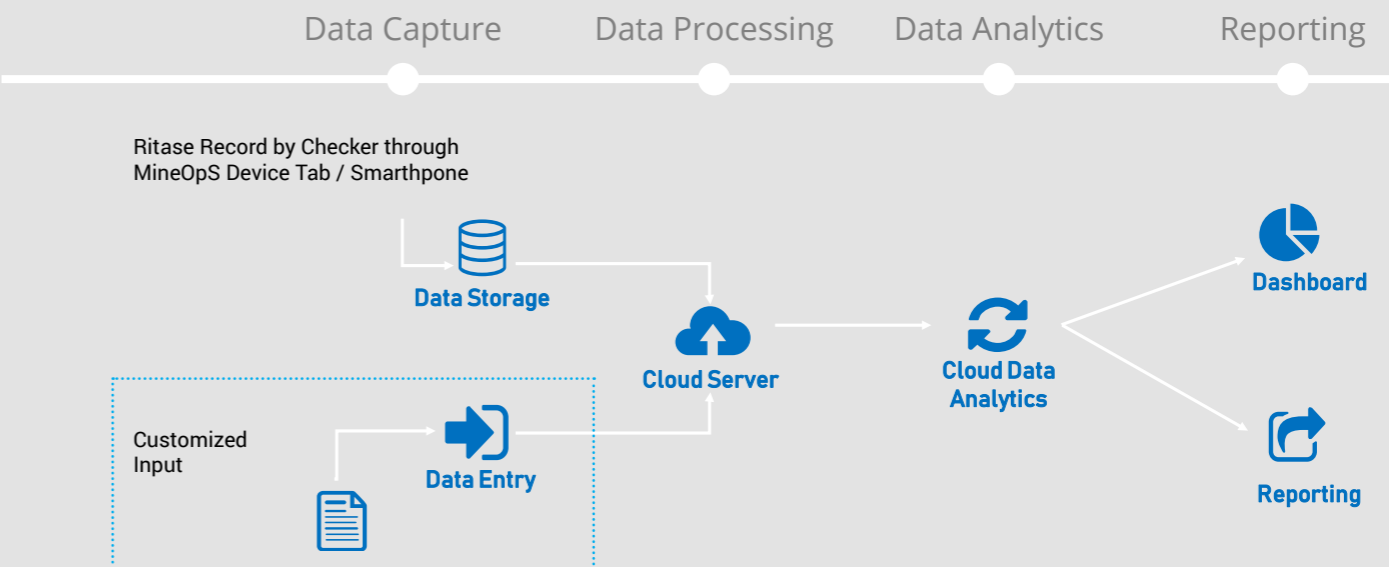
Mobile Platform on PWA & Android base

Checker Digital
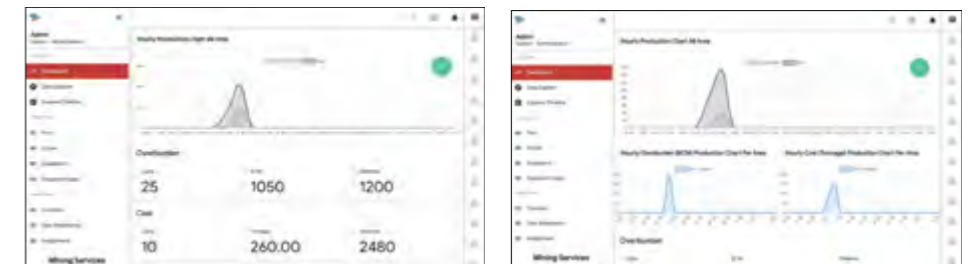Realtime mine monitoring in hand

Features

Active Dashboard
Big data can be processed in real time quickly by the system

Reconcile
Reconciliation between plan and actual data.

Mining Operation Module
Analyze real-time achievement of each your mining activity

Multiple Role Access

Dynamic Setting
Flexible to set up in accordance with mining activities

Integration Opportunity
It gives space to have integration with other application Opportunity to accommodate manual report input

One Company One License
mining software price revolution, number license freely activated based on company policy

Simple Flow Data

Data Capture   Data Processing   Data Analytics   Reporting

Ritase Record by Checker through MineOpS Device Tab / Smartphone

Data Storage

Cloud Server

Cloud Data Analytics

Dashboard

Customized Input

Data Entry

Reporting

What Modules We Provides

These all are widely open customizing system & further opportunity to more enhance development, including integration with other application.

Dashboard

Real time dashboard	: Production, OB, Coal, and Ritase (cycle)
Data explorer	: User recapp & unit availability
Data explorer timeline	: Flexible Explorer Report (easy customized report), histocal production

Operation

Plan (module)	: Unit Positioning Setting
Actual (Module)	: Flexible Material adjustment
Equipment (module)	: Flexibility on fleet activity setting
	: Flexibility on Planning for Unit Position
	: Simple prochedure for cycle (ritase) recording
	: Digitalize the over handle report
	: Pick up Lost time record
	: Event activity record (describe time utilisation)

Man Power

Operator (module)	: Monitor employee's attendance and assignment
Assgniment (Module)	: Flexible to assign operator
User Equipment (module)	: Setting baackup operator
Attendant Employee (module)	: Support integration to finger attendance device

Plant

Equipment (module)	: availability equipment monitoring
Equipment log (Module)	: Handover mechanism of Breakdown to Ready Equipment, vice versa
	: Categorize Scheduled & unscheduled maintenance

Production Dashboard Monitoring

E-Profiler

RKAB Online

E profiler is the Integrated mine reporting platform that is designed to compile many data & report such as production planning, finance & budgeting, production realization & others company planning that comply to the goverment regulation. It'll be also very usefull in compiling RKAB document as one of the obligation that should be reported each company to the goverment.
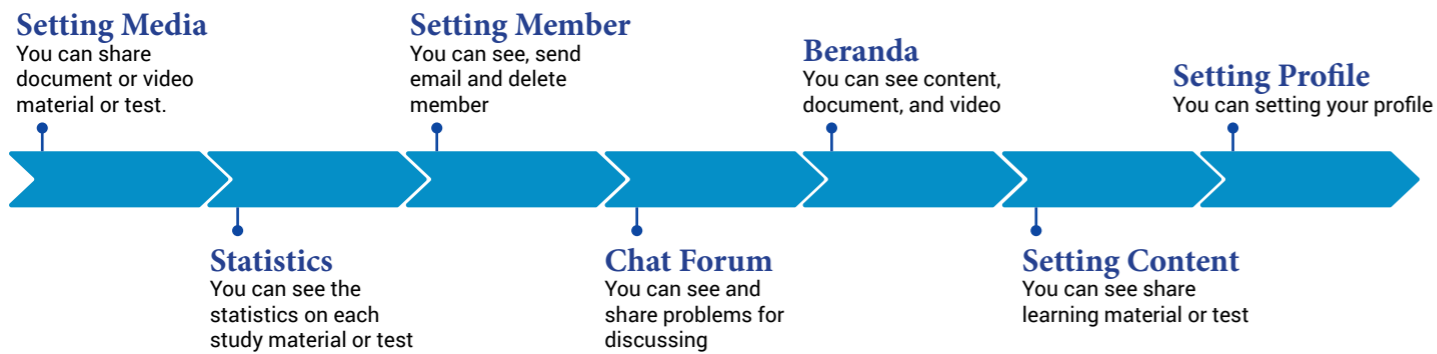
Automation in compiling report & sending the document refer to goverment standard, sure willmore simplify the preparing process & easier the company in complying the goverment regulation.
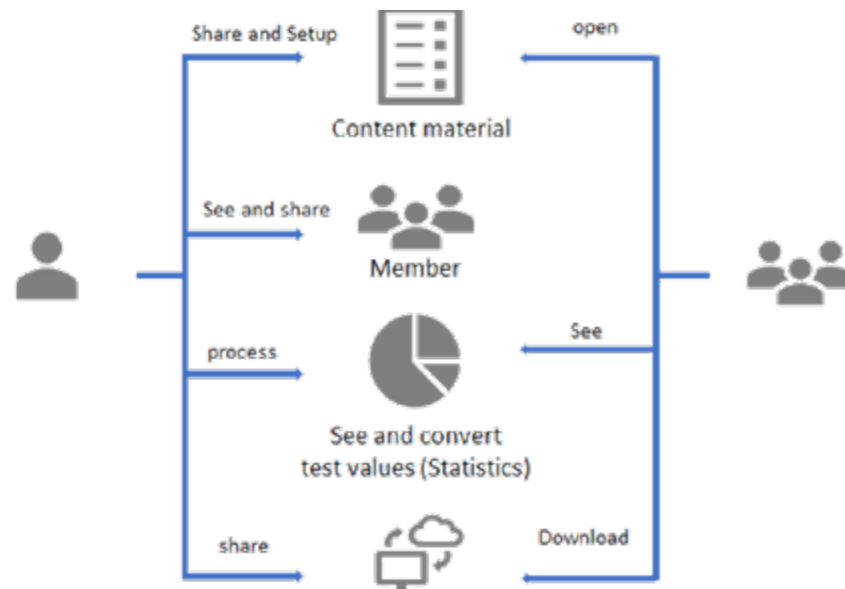
TURA-OLS

Online Learning System

Online Learning or E- Learning, is new mechanism to conduct training, testing, assessment or certification in online mode. It doesn't obligate user or members attend the class together with the trainer in the same place. It can be implemented to the several place, sure it will save more time & especially related cost. This mechanism appropriate applied in mining that commonly consist of some areas or some Department. Then some activities for example related to employee induction, employee training, renew ID or KIMPER together in some areas or Department can be facilitated with this application.

Features

Setting Media
You can share document or video material or test.

Setting Member
You can see, send email and delete member

Beranda
You can see content, document, and video

Setting Profile
You can setting your profile

Statistics
You can see the statistics on each study material or test

Chat Forum
You can see and share problems for discussing

Setting Content
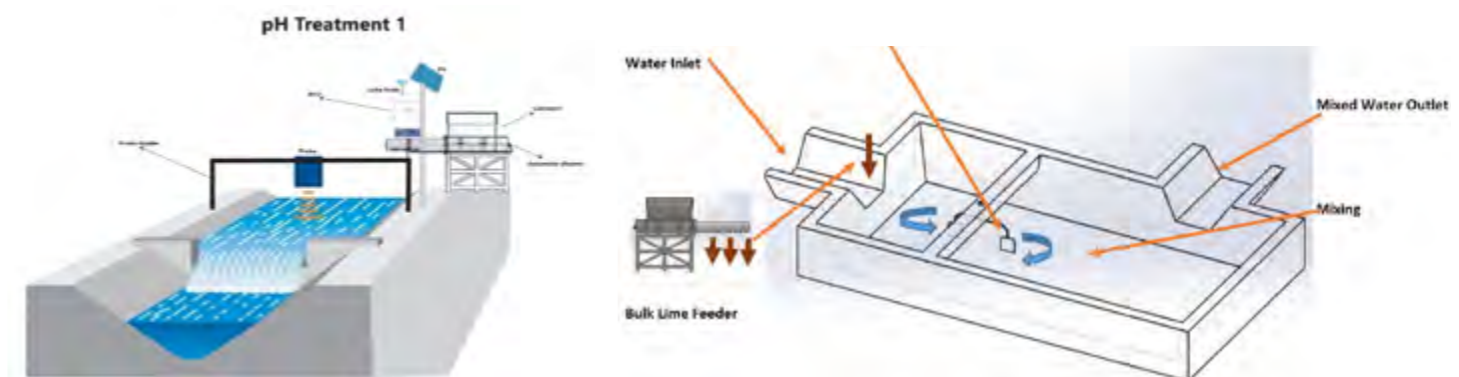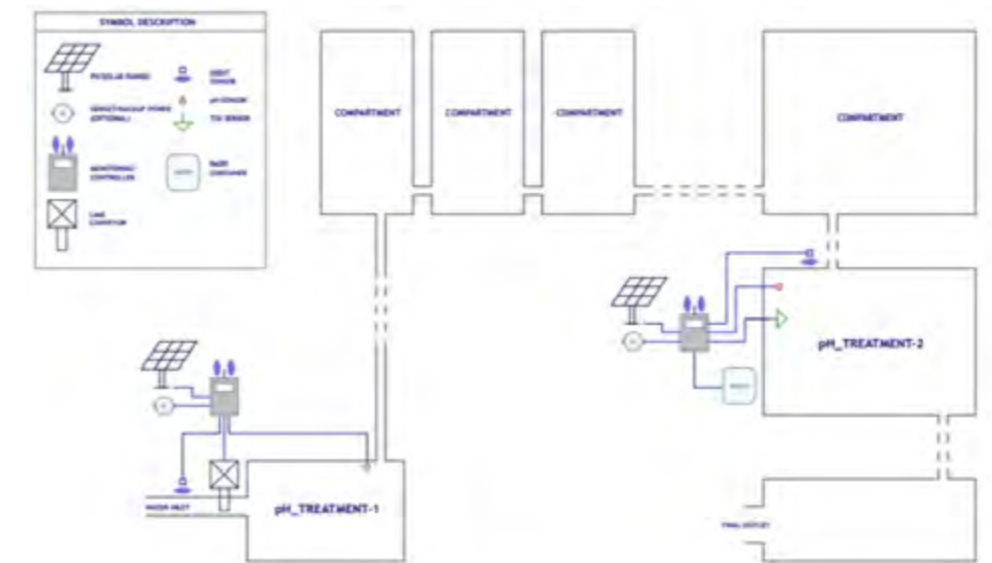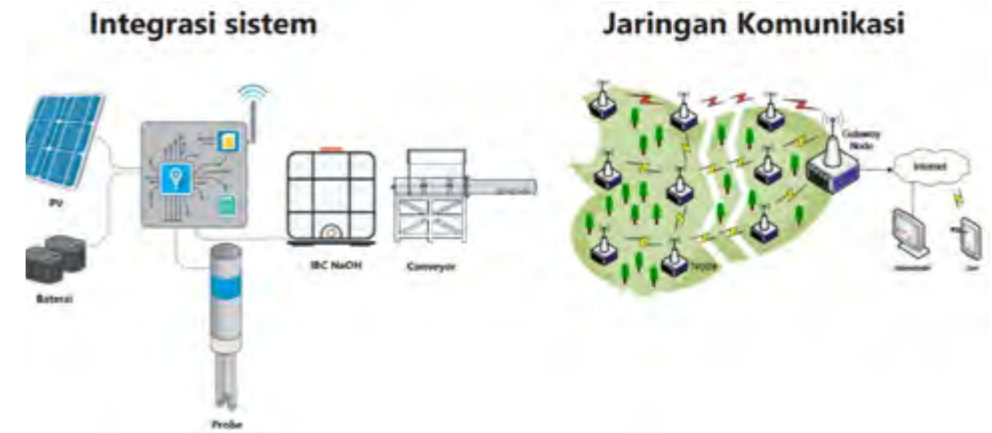You can see share learning material or test

Integrated Flow Captured in Online Learning System

MineTS

Mine Telemetry System

Focus on ensuring the PH Value is in accordance with the required quality standards. The treatment applied is based on automatic control system monitoring.
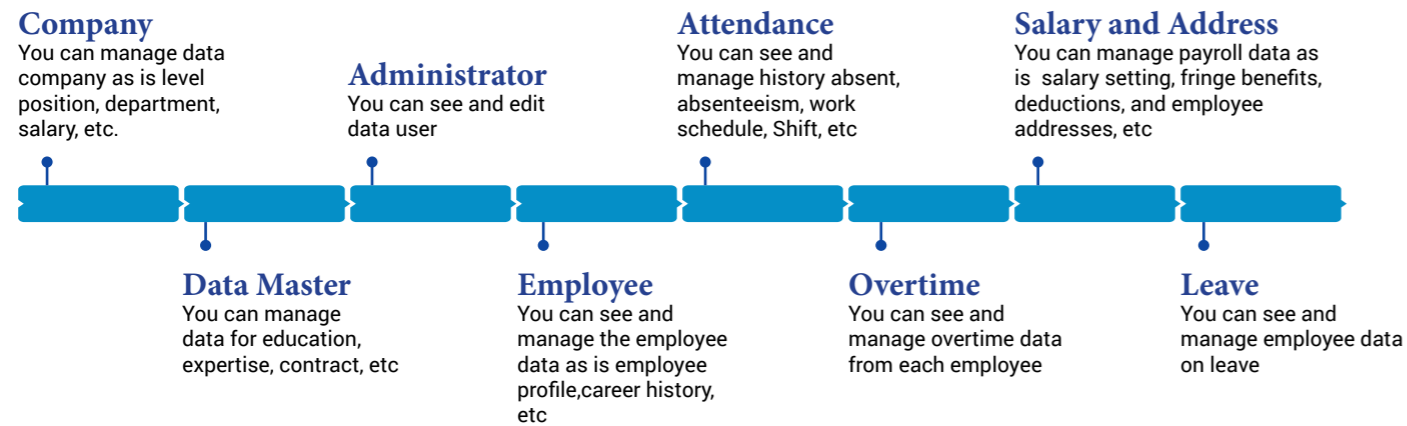
TURA-HR

HR Management System

TURA HR, is Human Resource Management application that developed to facilitated the HR activity especially in managing employee. Simply, complete & reliable application, make user easy to learn. This application is very open for the integration especially integration with attendant tools & others HR management besides it's also easy to be deployed. Some features are related to management on the placement employee, salary payment, shift scheduling, overtime procedure, leave scheduling & others menu or features.
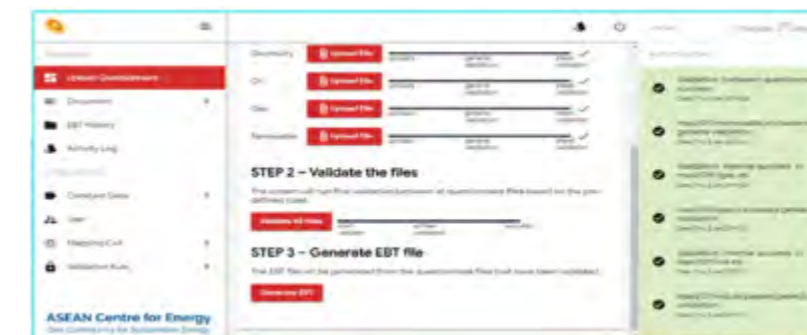
Features

Company
You can manage data company as is level position, department, salary, etc.

Administrator
You can see and edit data user

Attendance
You can see and manage history absent, absenteeism, work schedule, Shift, etc

Salary and Address
You can manage payroll data as is salary setting, fringe benefits, deductions, and employee addresses, etc

Data Master
You can manage data for education, expertise, contract, etc

Employee
You can see and manage the employee data as is employee profile, career history, etc

Overtime
You can see and manage overtime data from each employee

Leave
You can see and manage employee data on leave

Simple Flow Data

Data Capture → Data Processing → Data Analytics → Reporting

Data input to the application HR Management System via PC

Customized Input

Data

Data Entry

Cloud Server

Cloud Data Analytics

Data Reporting

Administration

User & Configuration feature

Projects

Highlight
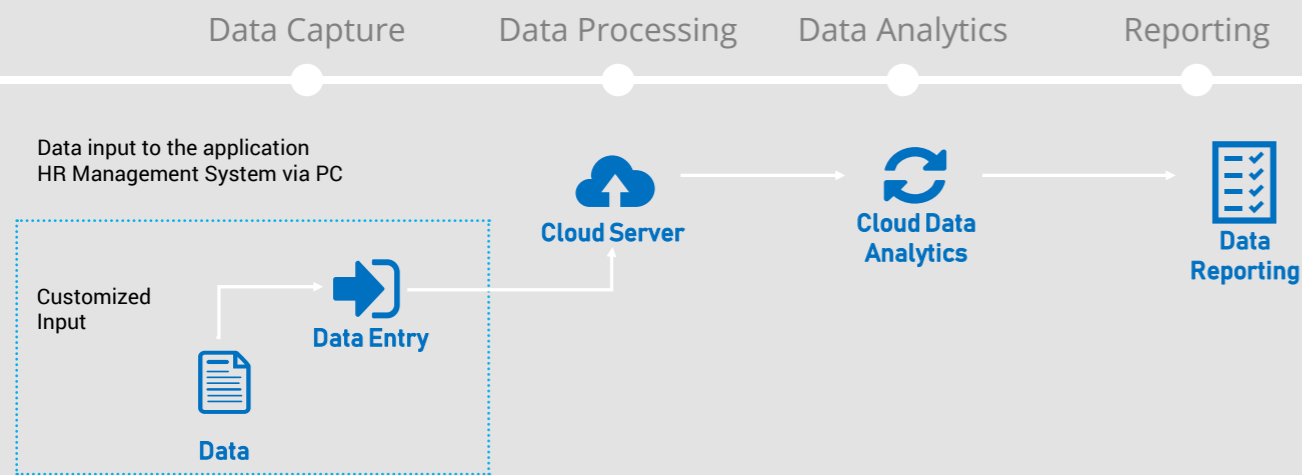
1. ASEAN Energy Database System

ASEAN Energy Database System (AEDS) contains information and visualisation of statistics of ASEAN Member States (AMS). In order to maintain consistency and quality of the energy data, it is important to verify the data source further utilised in the analysis process.
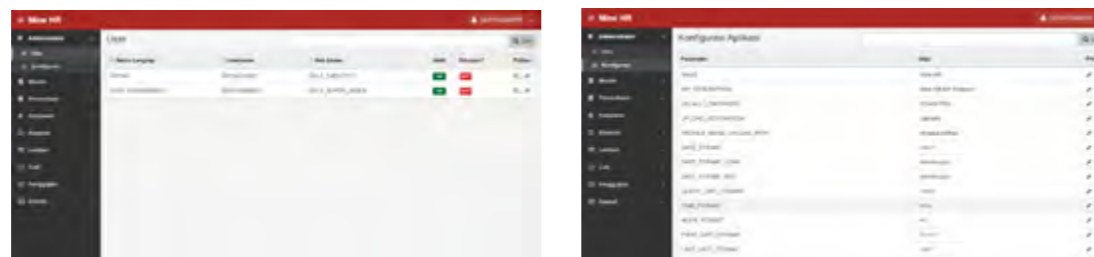
2. IT Assistance

Assistance is the assistance project to guide the IT team, to build data hub for the operation team, with transform the manually process production record on datasheet by checker into Digital. It gives real time production report on the point of view Checker.

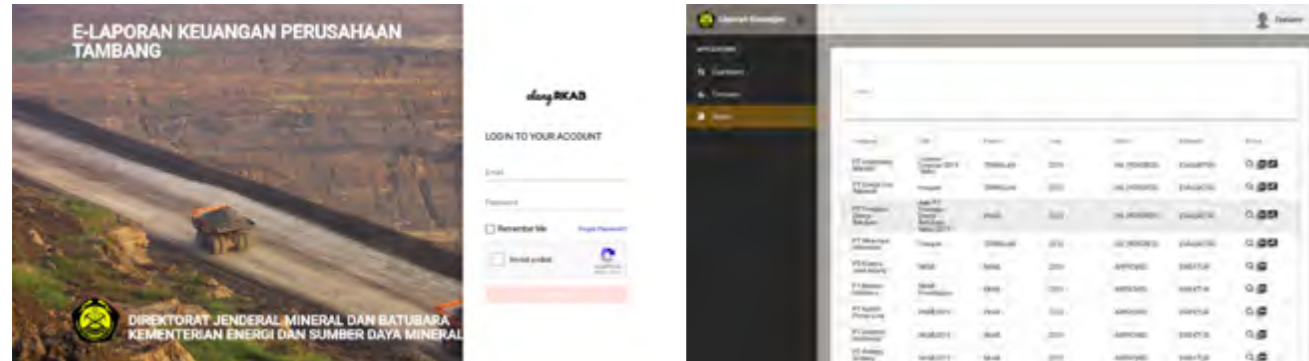# 3. RKAB (Workplan & Budget) Online System

This application is developed to accommodate report on financial material related to submission of RKAB from all mining companies, it has been adjusted with actual report including official matrix that has been stated by government. This application is made with simply procedure, one of them with accommodate generating data from Excel format.

Features

Company
You can manage data company.

Report
You can see and manage progress report from each companies

Dashboard
You can see values or statistics from each your planning

Archieve
You can see and manage reports that have not been submitted to the evaluator

Upload
You can manage as is upload and download data

Profile
You can see and manage your profile

User
You can see and edit data user

Inbox
You can share and discussing

Integrated Flow Captured in E-RKAB

Team
Portfolios

SOX – PT Satria Bahana Sarana (Subsidiary of PT Bukit Asam)	IT Assistance Project Developing Data Hub System SBS Operation Excellence
Ministry of Energy and Mineral Resources (ESDM)	RKAB (Workplan and Budget) Online System
ASEAN Centre for Energy	Construct ASEAN Energy Database System (AEDS)
Pemuda Berkarya Manunggal	Develop Value Chain Management System Real time distribution monitoring of Coffee Stock from the origin farmer till the customer Talent Management System Human Resources Talent Recruitment System for Bridging Academy and Company
Directorate of Energy, Mineral Resources and Mining, Ministry of National Development	Renewable Energy, Oil and Gas Portal System
Ministry of Energy and Mineral Resource (ESDM), Indonesia	Coal Mining Report Monitoring and Performance Review System Part of Mining ERP Grand Design
Energy and Mineral Resources Agency, West Java Province	Mining Permit Information System
PT Satria Bahana Sarana (Subsidiary of PT Bukit Asam)	Fleet Management System Develop & enhance the existing MineOps application that has been applied in PT SBS called as to become complete Fleet Management System E-Profiler E-RKAB Develop master online RKAB module, to facilitate & simplify user (mining company) in compiling data related to preparing submission of RKAB Draft Auto Treatment PH Monitoring Develop an integrated real time PH Monitoring, combining with Auto Control System, where system would automatically adjust liming feeder, include NaOH spreader to normalize PH value. Effective, Efficient & Optimal result in normalize of PH Value become the indicator of success criteria in deployment Auto Treatment PH Monitoring System

ASEAN Centre for Energy
One Community for Sustainable Energy

Kementerian PPN/
Bappenas

SBS Mining Services

Bukit Asam

PT. ARUTMIN INDONESIA

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