



**- SMCS Smart Mining -**  
**Production, Inventory, Sales, Carbon Footprints**



Edit Master text styles

## 1 About Us

PT. Adiraja Integrasi

## 2 Selected Portfolios

Supply Chain Management

## 3 SMCS Smart Mining

Functionalities coverage

## 4 SMCS Command Centre

Dashboard Function

## 5 Study Case

Challenges & Goal



# Brief Introduction

## Company



- More than a decade experiences in Mining Supply Chain Projects
- Big mining clients in local & overseas
- Focused on Enterprise Software Development with continuous development



## Product & Services



Enterprise Resource Planning

ODOO ERP

Human Resource Information Management

ODOO HRIS | eBS HRIS

Enterprise Performance Management

MAXIBU Financial Planning & Budgeting  
MAXICO Financial Consolidation

Mining Supply Chain Management

SMCS Production Logistics  
SMCS Sales Marketing  
SMCS Carbon Footprints

odoo

maxibu  
Planning & Budgeting

maxico  
Financial Consolidation

smcs  
Production Logistics

smcs  
Sales Marketing

smcs  
Command Center

# Our Mining Industry Clients



**PT. UNGGUL  
DINAMIKA  
UTAMA**



**Overseas  
Clients**



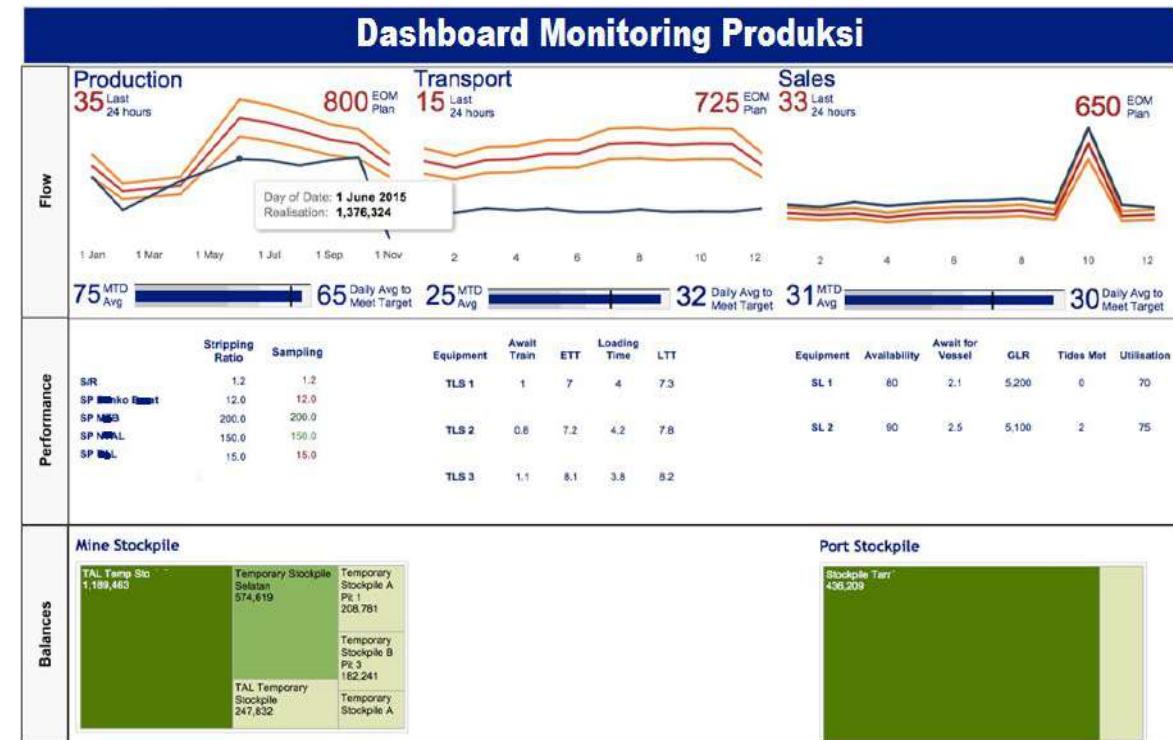
Edit Master text styles



- 1 About Us**  
PT. Adiraja Integrasi
- 2 Selected Portfolios**  
Supply Chain Management
- 3 SMCS Smart Mining**  
Functionalities coverage
- 4 SMCS Command Centre**  
Dashboard Function
- 5 Study Case**  
Challenges & Goal



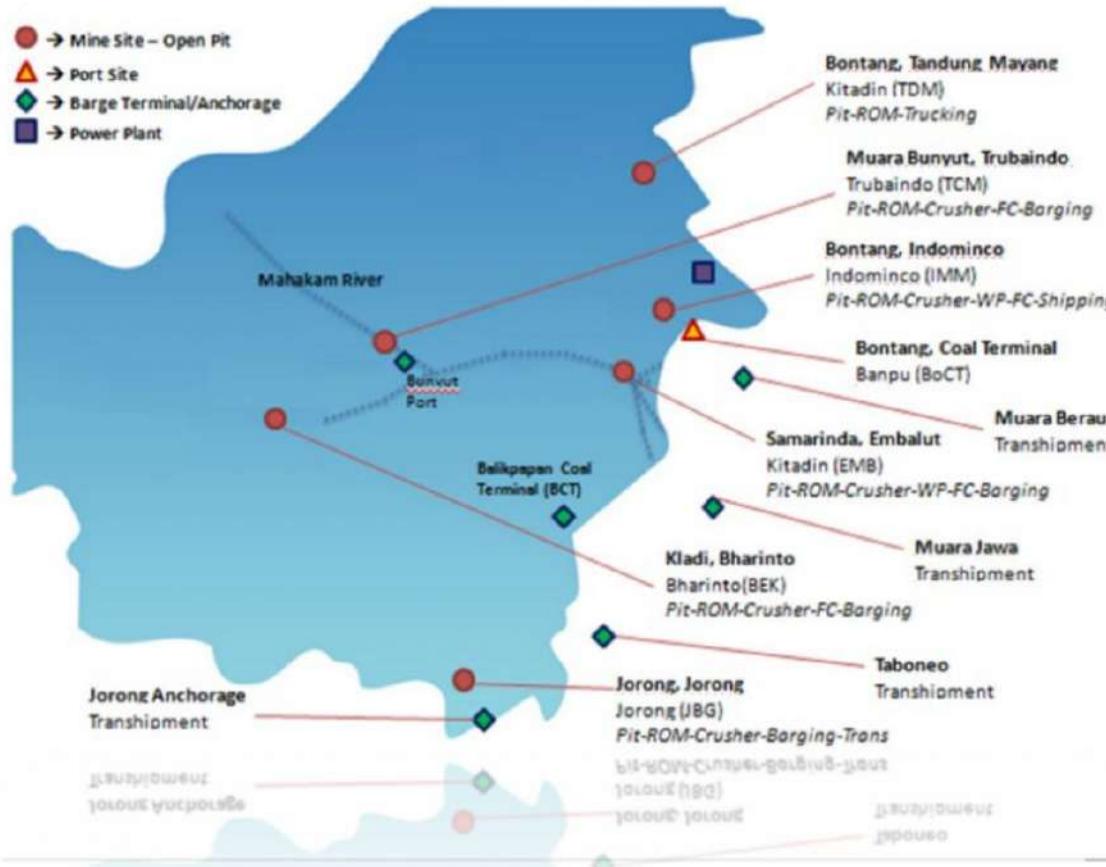
## PT. Bukit Asam – Supply Chain Management System



*“Increased visibility of end-to-end coal supply chain from pit, processing plant, rail transportation, port, to vessel. The whole system provides us with interactive management dashboard and also supply & demand optimization”*

# Selected Portfolio #2

## A Case Study – Banpu Group



Banpu is a **leading integrated energy solutions company** in Asia-Pacific, creating growth throughout its **3** core groups of businesses.



### Operations

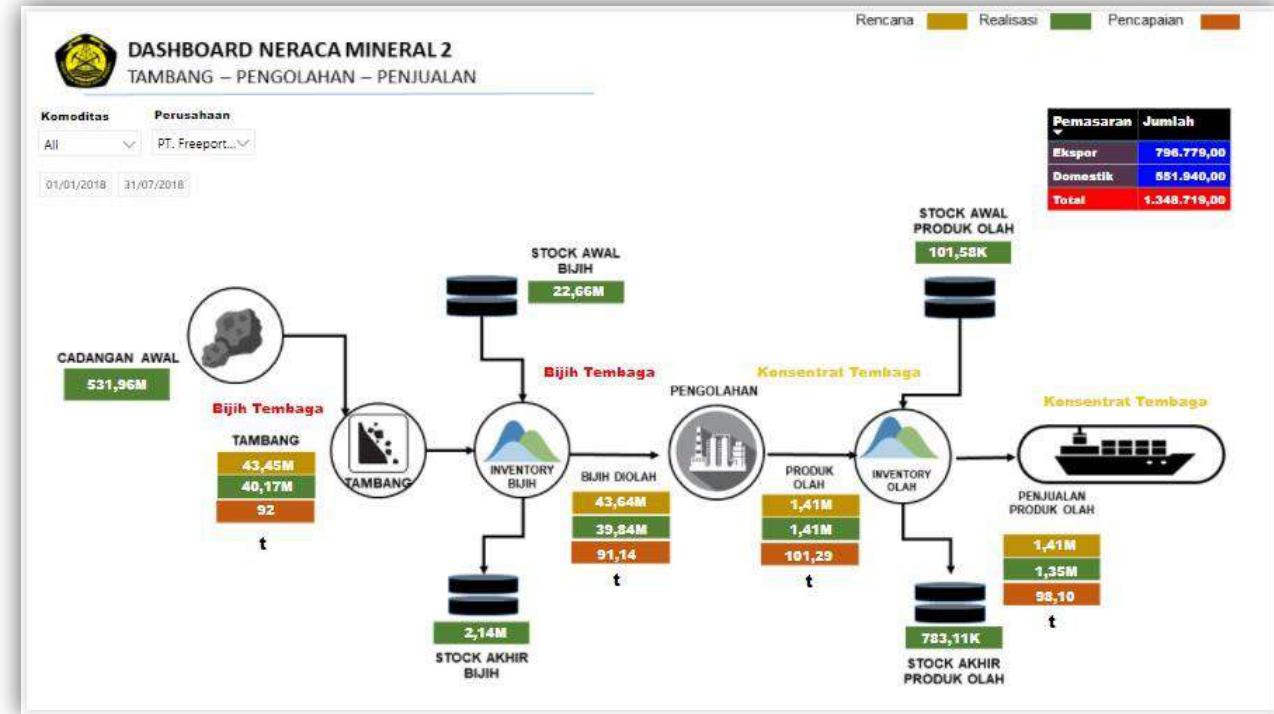
- Indo Tambangraya Megah, Tbk
- Indominco Mandiri
- Bharinto Ekatama
- Jorong Baratama Greston
- Kitadin
- Trubaindo Coal Mining
- BMS Coal Sales
- Banpu International Limited

### Solutions

- Coal Procurement
- Production
- Logistics, Hauling & Inventory
- Quality
- Transportation
- Inbound & Outbound Logistics
- Sales Operation
- Contract Marketing

# Selected Portfolio #3

## Kementerian ESDM – Minerba Online Monitoring System (MOMS)

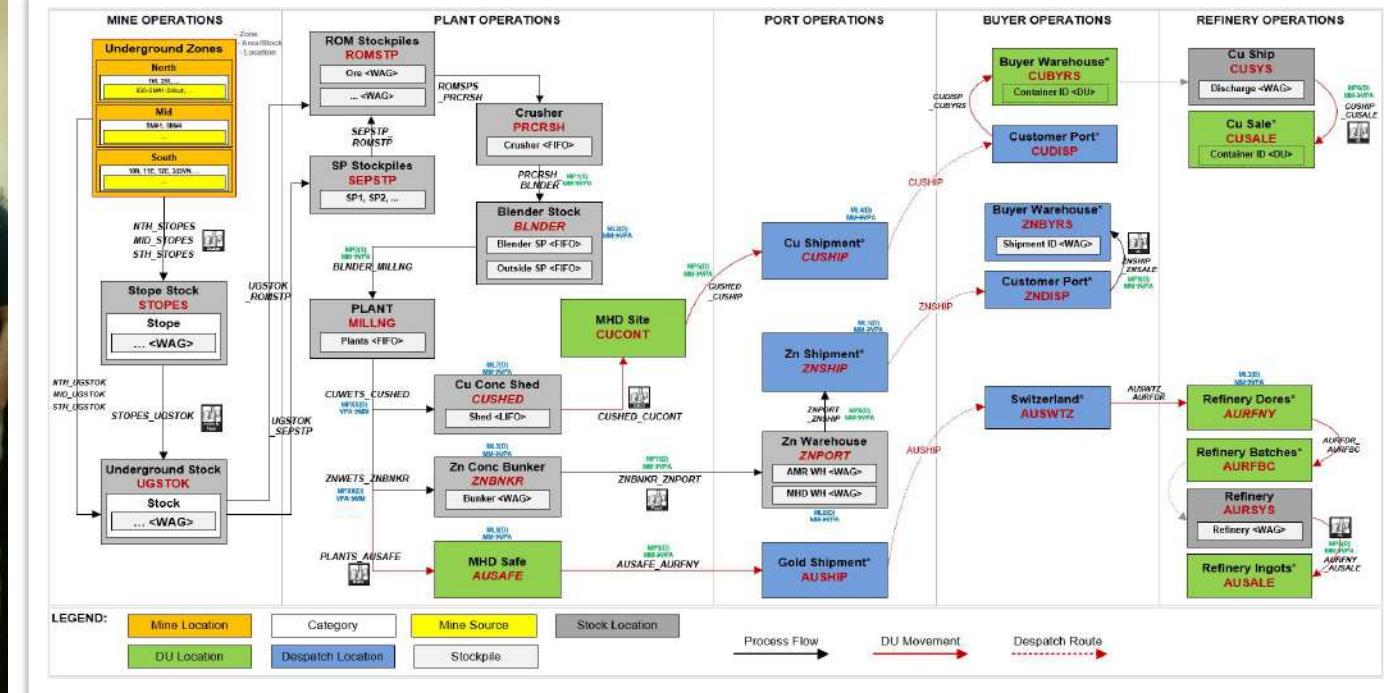


*“Sistem online di pertambangan mendongkrak kas negara” –*  
**Archandra Tahar via CNBC Indonesia**



# Selected Portfolio #4

# Ma’aden Gold & Base Metals – Intelligent Mining Solution



## Achievement:

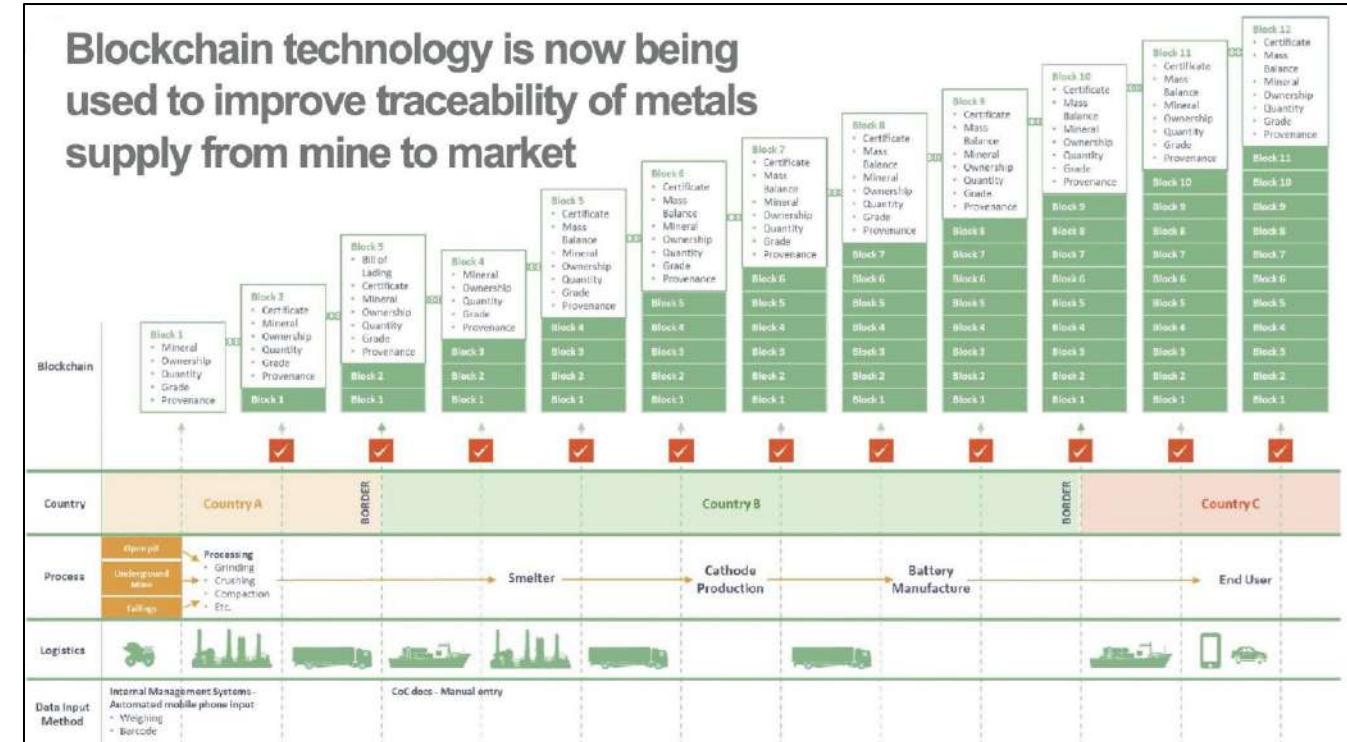
- Consolidation all Saudi Arabia operations: Jeddah, Riyadh, Medinah
- End to end operation integration between production & accounting.
- Mining reconciliation within reliable & traceable system.

# Selected Portfolio #5

## Hydrotech Metal Indonesia – Carbon Footprints Design



Blockchain technology is now being used to improve traceability of metals supply from mine to market



### Goals:

- LCA for Mining - Carbon Footprints
- Smelter Certificate for Exported Product

Edit Master text styles

- 1 About Us**  
PT. Adiraja Integrasi
- 2 Selected Portfolios**  
Supply Chain Management
- 3 SMCS Smart Mining**  
Functionalities coverage
- 4 SMCS Command Centre**  
Dashboard Function
- 5 Study Case**  
Challenges & Goal



# Product Historical Roadmap

## 2010 • **first development of mining supply chain project**

the system development is built based on one of the big mining companies

## 2012 • **enhancement for sales marketing process**

additional modules for sales marketing to cope with complex pricing & administration

## 2016 • **modelling network supply chain object**

end-to-end process flow connection all supply chain objects

## 2020 • **major development with latest technology**

Redesign & redevelopment with new platform supporting SaaS technology with total solution covering whole functions



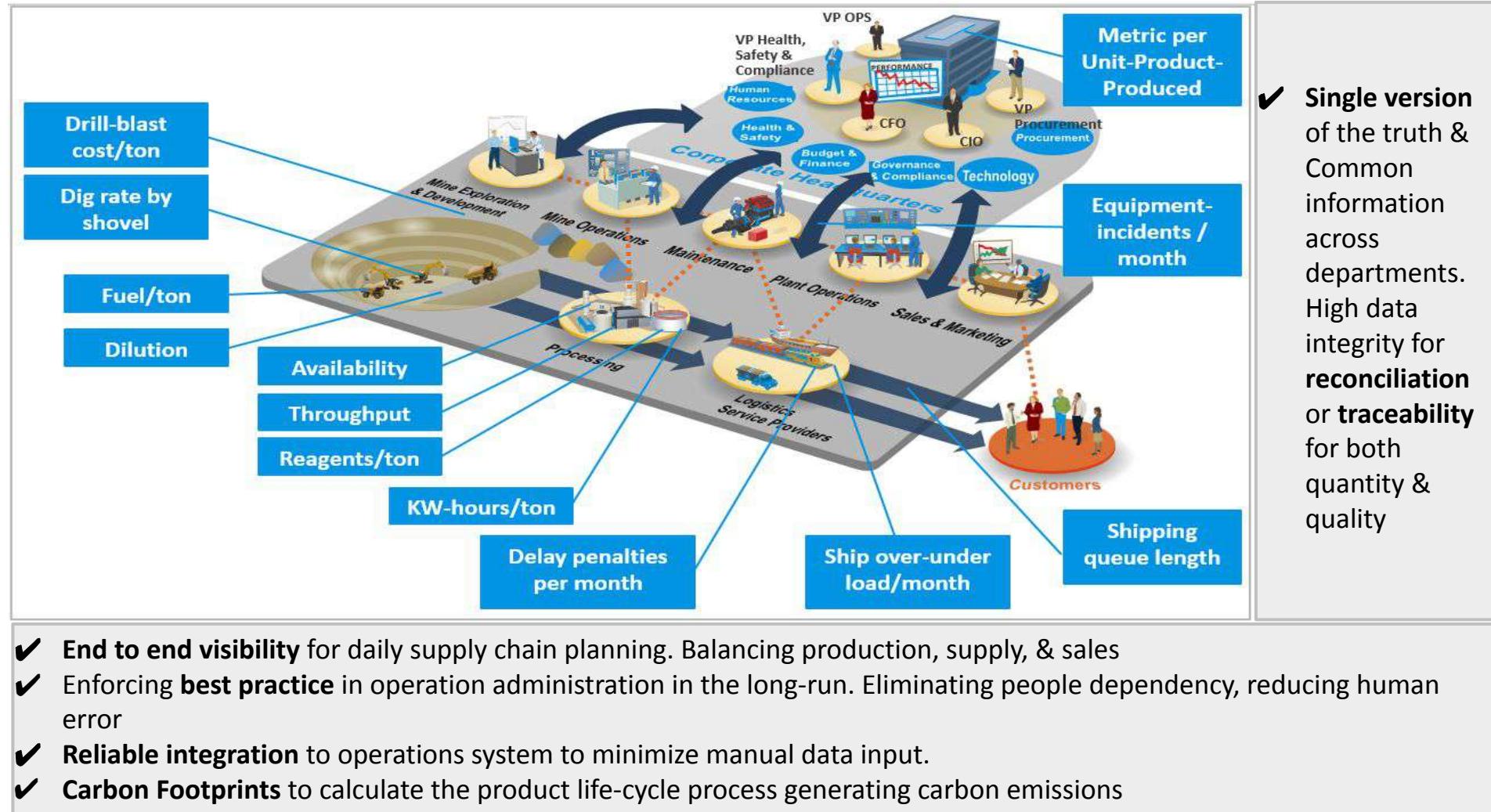
Future  
Development

Carbon Footprints

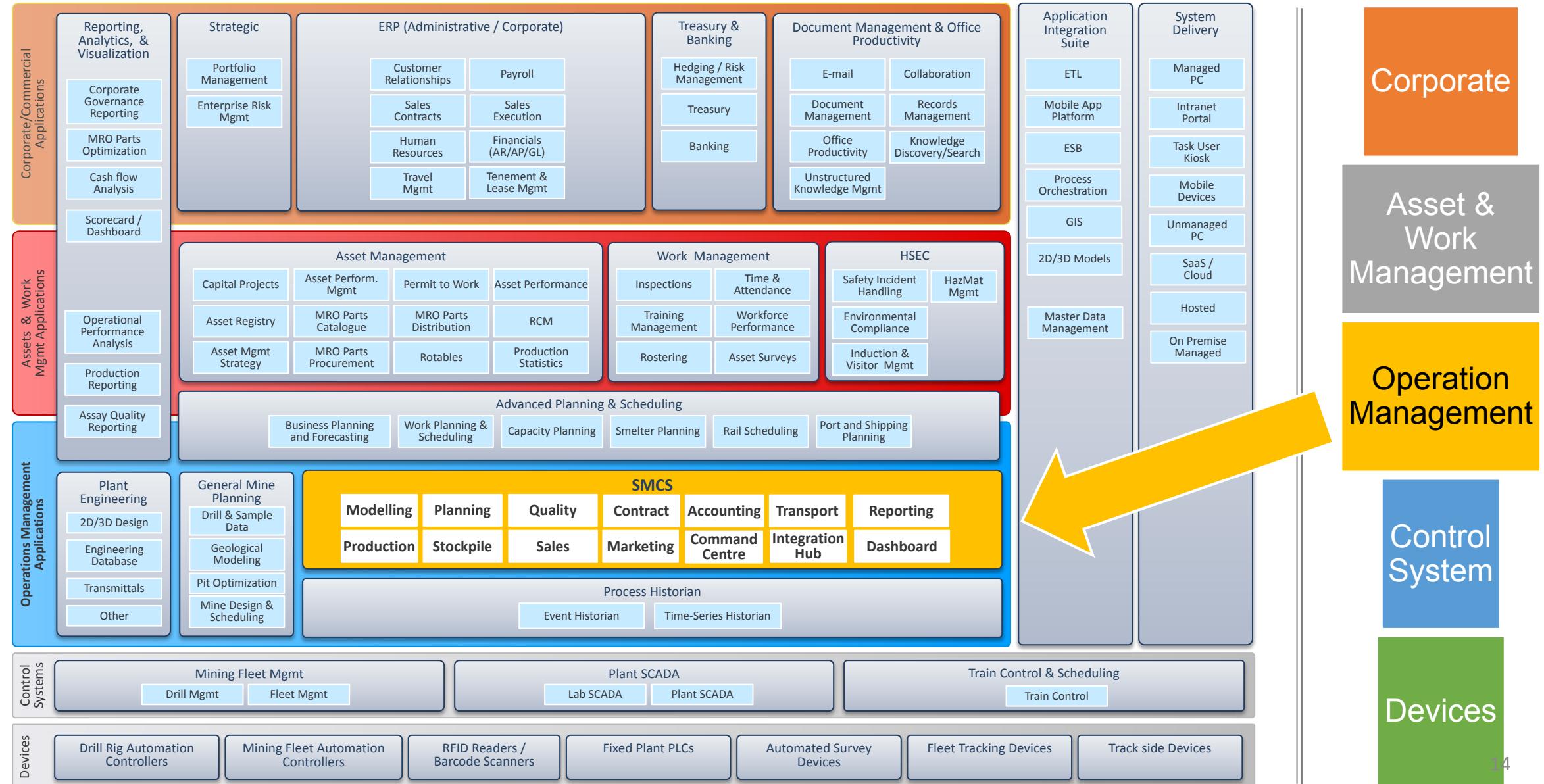
Process Feature  
Enhancement

User Interface  
Enhancement

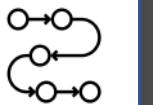
# SMCS Program Goal



# Mining Industry Reference & SMCS Position



# SMCS All Modules

 <b>Modelling Management</b> <ul style="list-style-type: none"><li>• Operation Area</li><li>• Mine Pit</li><li>• Stockpiles</li><li>• Port Location</li><li>• Flow Process</li></ul>	 <b>Planning Management</b> <ul style="list-style-type: none"><li>• Production Plan</li><li>• Sales Plan</li><li>• Blending Plan</li><li>• Shipment Plan</li></ul>	 <b>Quality &amp; Material</b> <ul style="list-style-type: none"><li>• Material</li><li>• Product &amp; Spec</li><li>• Analyte &amp; Template</li><li>• Assay Result</li><li>• Certificate of Analysis</li></ul>	 <b>Contract Management</b> <ul style="list-style-type: none"><li>• Advanced Contract for Services</li><li>• Complex Formulation</li><li>• Sales Contract</li></ul>	 <b>Accounting Management</b> <ul style="list-style-type: none"><li>• COA</li><li>• Operation COA Mapping</li><li>• Sales Invoice</li></ul>
 <b>Production</b> <ul style="list-style-type: none"><li>• Hauling</li><li>• Re-handling</li><li>• Loading Unloading</li><li>• Transport</li><li>• Equipment Timesheet</li></ul>	 <b>Stockpile</b> <ul style="list-style-type: none"><li>• Incoming Outgoing</li><li>• Stock Survey</li><li>• Stockpile State</li></ul>	 <b>Sales</b> <ul style="list-style-type: none"><li>• Barging</li><li>• Shipment</li><li>• Shipping Documents</li><li>• Despatch Demurrage</li></ul>	 <b>Integration Hub</b> <ul style="list-style-type: none"><li>• Operation Area</li><li>• Mine Pit</li><li>• Stockpiles</li><li>• Flow for Hauling</li></ul>	 <b>Command Center</b> <ul style="list-style-type: none"><li>• Production &amp; Sales Board</li><li>• Fleet Management</li><li>• Long Hauling Monitoring</li><li>• Shipment Monitoring</li></ul>



# Production Logistics Package

## SMCS Production Logistics

### Modelling

- ✓ Operation Area
- ✓ Mine Pit
- ✓ Stockpiles
- ✓ Port Location
- ✓ Flow Process

### Planning

- ✓ Production Plan
- ✓ Blending Plan
- ✓ Shipment Plan

### Quality & Material

- ✓ Material
- ✓ Product Spec
- ✓ Analyte & Template
- ✓ Assay Result

### Production

- ✓ Operation Area
- ✓ Mine Pit
- ✓ Stockpiles
- ✓ Port Location
- ✓ Flow Process

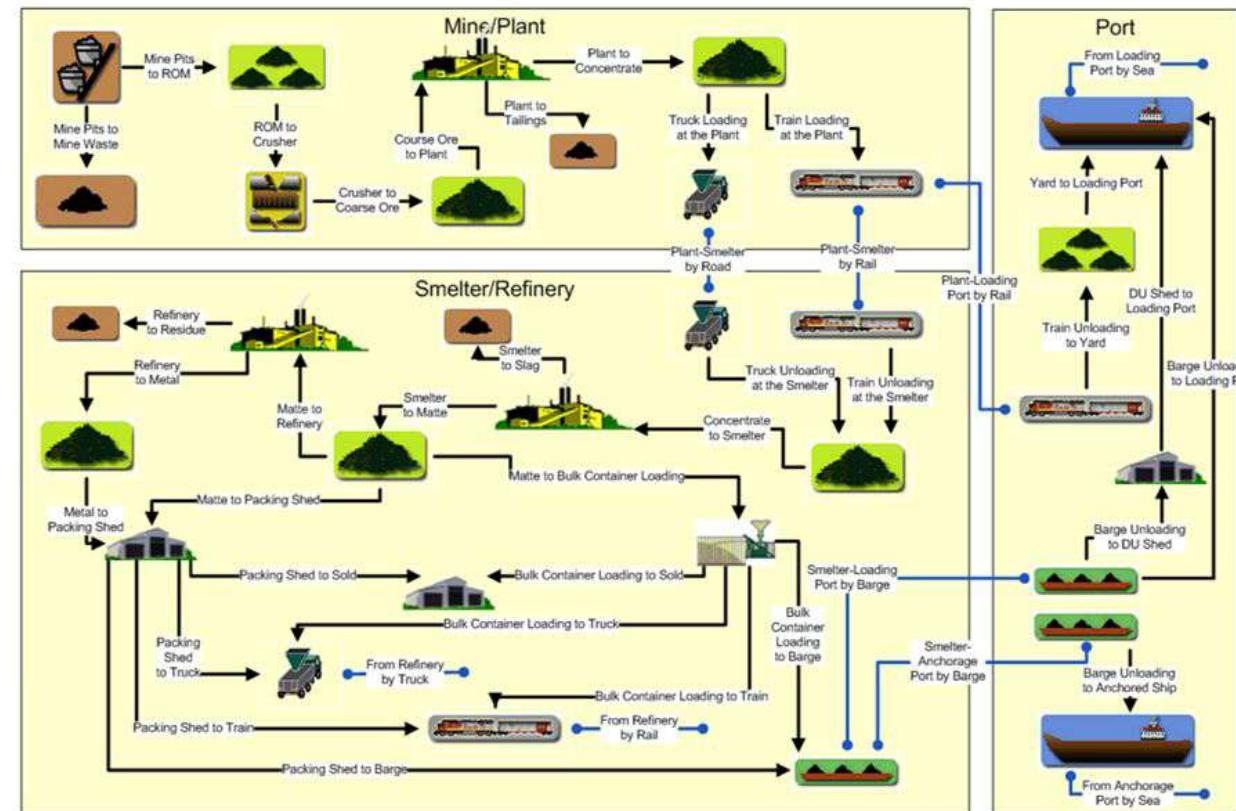
### Stockpile

- ✓ Production Plan
- ✓ Sales Plan
- ✓ Blending Plan
- ✓ Shipment Plan

### Sales

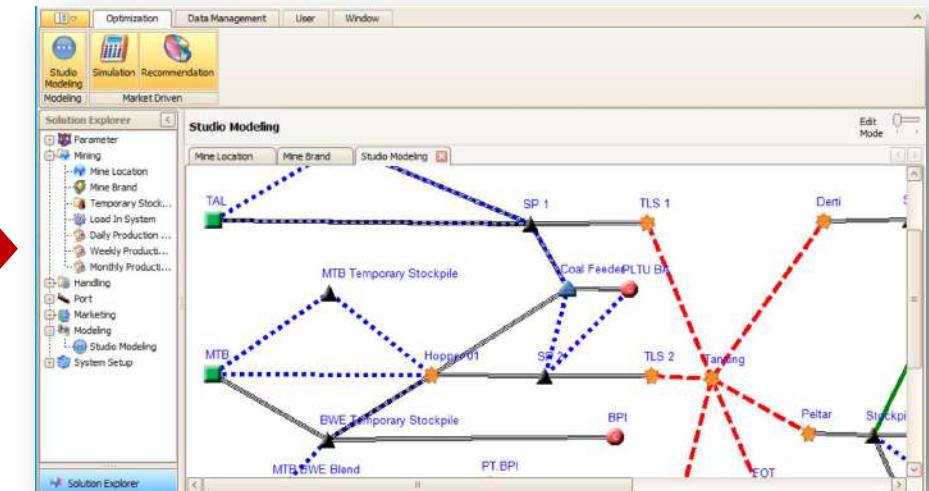
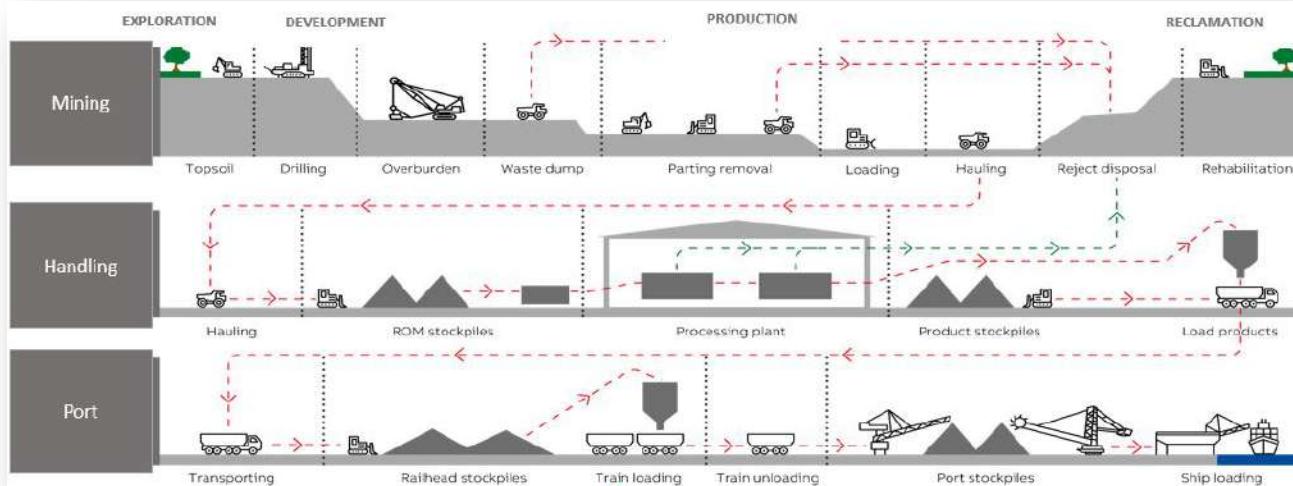
- ✓ Analyte & Template
- ✓ Assay Result

“a pit to port control”

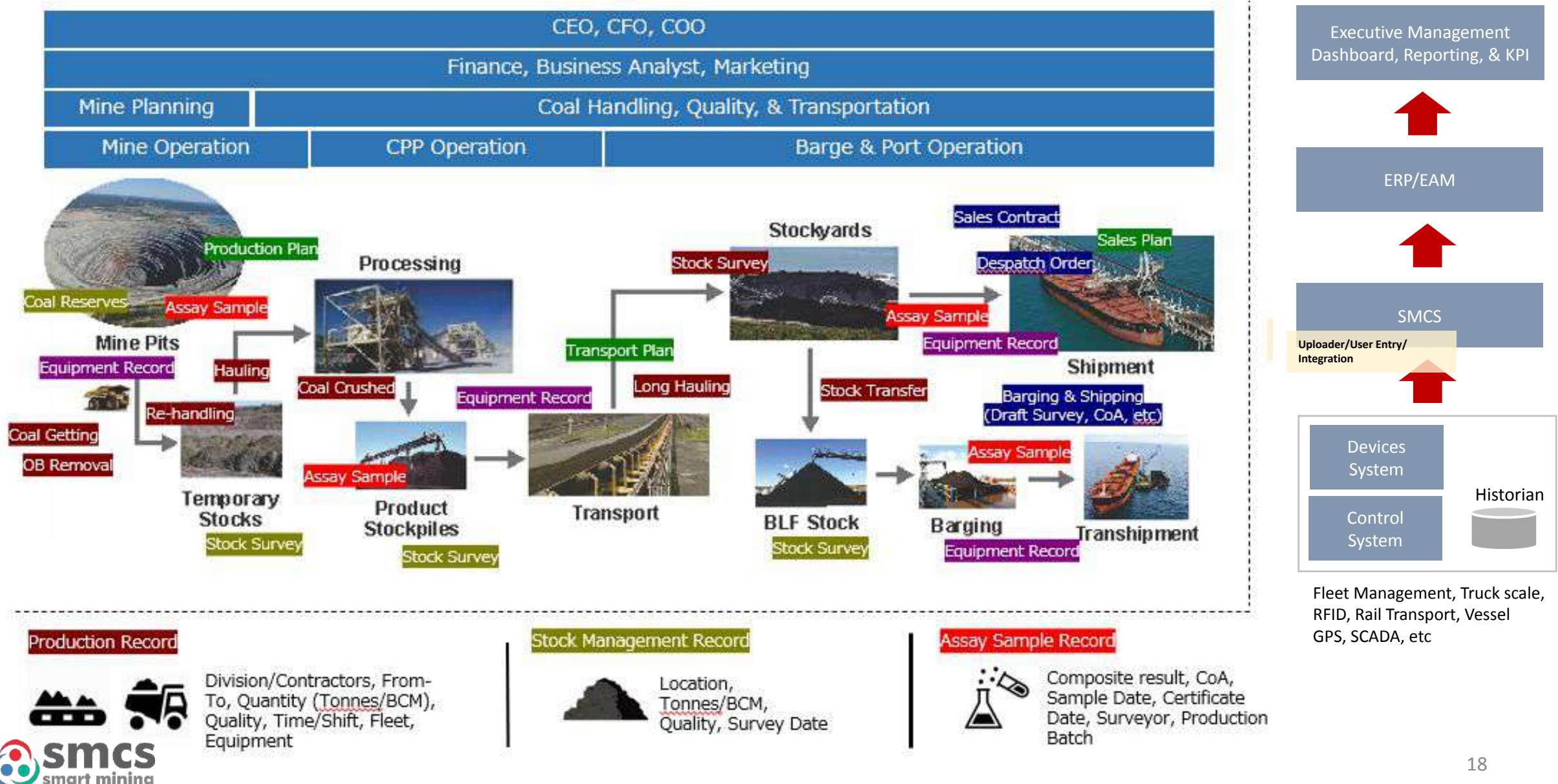


# Modelling Management

- Modelling end-to-end mining operation
- Mining area from mine pit to CPP
- Processing Area from crushing to product stockpile
- Port Area from stockyard to shipping



# Production Management



Executive Management  
Dashboard, Reporting, & KPI



ERP/EAM



SMCS

Uploader/User Entry/  
Integration



Devices  
System



Fleet Management, Truck scale,  
RFID, Rail Transport, Vessel  
GPS, SCADA, etc

# Stockpile Management



Production & Logisti... / Stockpile Manag... / Stockpile Mutati...

Monday, February 20, 2023

From: 02 Feb 2020 00:00 To: 20 Feb 2023 00:00 Debit/Credit Note

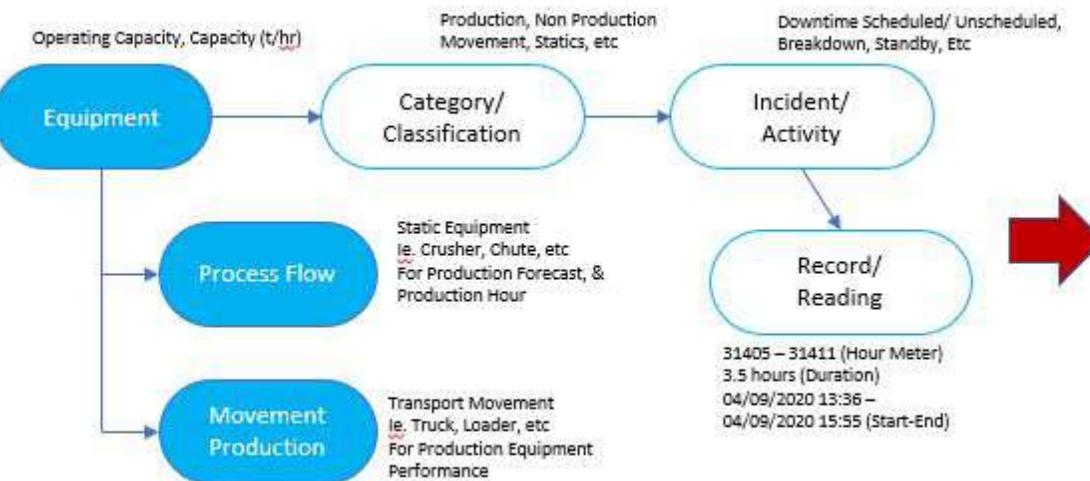
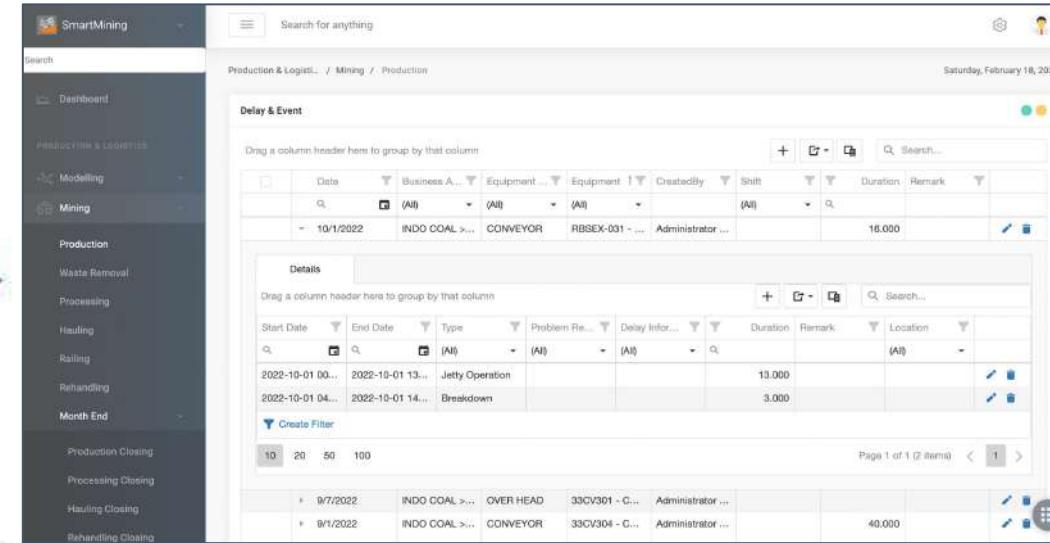
Stockpile Mutation Actions ▾

Location ↑

Stockpile	Entity	Transaction Dat...	Opening	In	Out	Survey	Closing
Q	Q	Q	Q	Q	Q	Q	Q
▶ Location: CPP KM 25 HOPPER > HOPPER							
▼ Location: CPP KM 25 PRODUCT > STOCK PRODUCT (Continues on the next page)							
▶ STOCK PRODUCT	rehandling_transaction	2023-02-14 06:59	21,319.15	415.80	0.00	0.00	21,734.95
▶ STOCK PRODUCT	rehandling_transaction	2023-02-14 06:59	21,226.75	92.40	0.00	0.00	21,319.15
▶ STOCK PRODUCT	rehandling_transaction	2023-02-14 06:59	21,111.25	115.50	0.00	0.00	21,226.75
▶ STOCK PRODUCT	hauling_transaction	2023-02-14 06:42	21,149.75	0.00	38.50	0.00	21,111.25
▶ STOCK PRODUCT	hauling_transaction	2023-02-14 05:45	21,187.65	0.00	37.90	0.00	21,149.75
▶ STOCK PRODUCT	hauling_transaction	2023-02-14 04:06	21,226.20	0.00	38.55	0.00	21,187.65
▶ STOCK PRODUCT	hauling_transaction	2023-02-14 03:59	21,262.75	0.00	36.55	0.00	21,226.20
▶ STOCK PRODUCT	hauling_transaction	2023-02-14 03:58	21,299.25	0.00	36.50	0.00	21,262.75

*Inbound, outbound, survey (month-end, ad-hoc), & quality adjustment*

# Production – Equipment Timesheet

SmartMining

Search: Search for anything

Production & Logistics / Mining / Production

Saturday, February 18, 2023

Delay & Event

Drag a column header here to group by that column

Date	Business A...	Equipment	Equipment	Createdby	Shift	Duration	Remark
10/1/2022	(All)	(All)	(All)	(All)	(All)	16.000	

Details

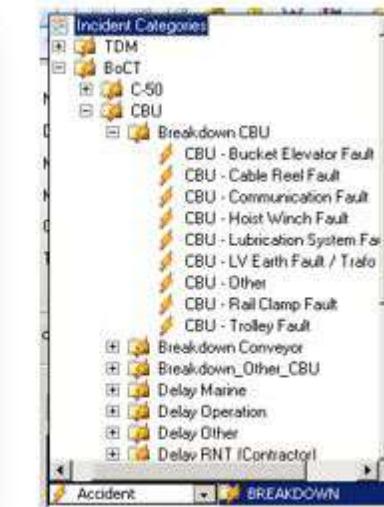
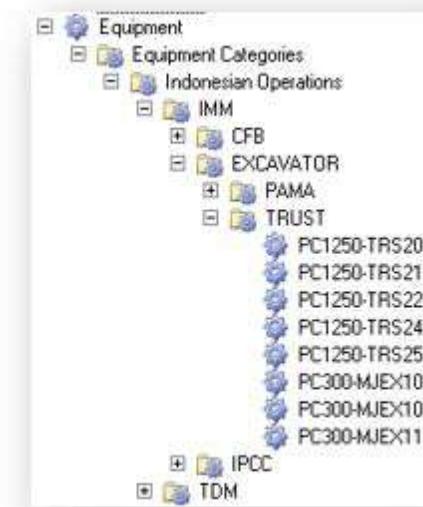
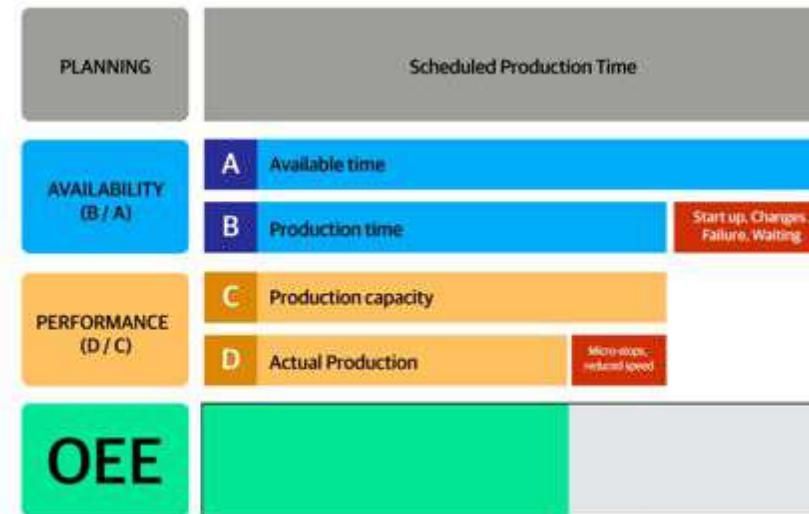
Drag a column header here to group by that column

Start Date	End Date	Type	Problem Re...	Delay Infor...	Duration	Remark	Location
2022-10-01 00...	2022-10-01 13...	Jetty Operation			13.000		
2022-10-01 04...	2022-10-01 14...	Breakdown			3.000		

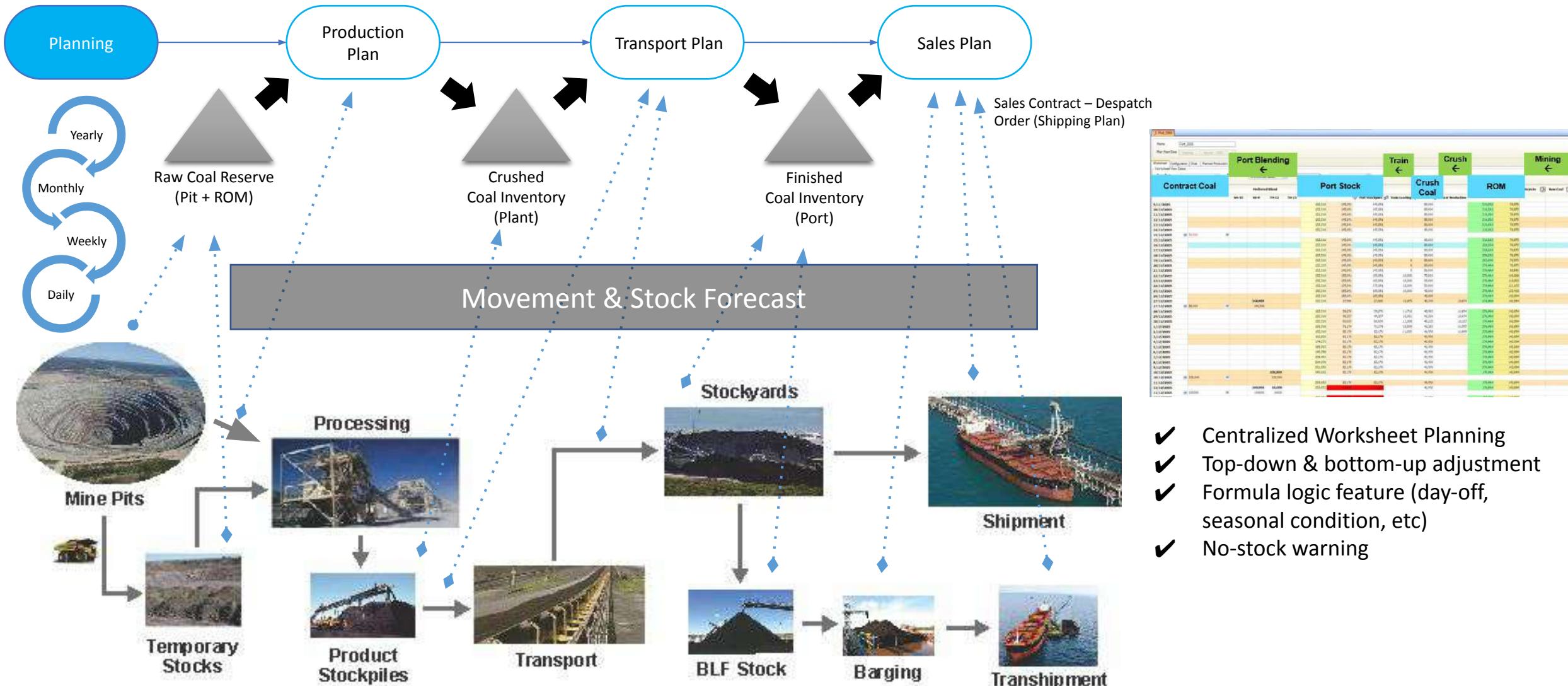
Creates Filter

Page 1 of 1 (2 items) < 1 >

9/7/2022	INDO COAL >...	OVER HEAD	33CV301 - C...	Administrator ...	40.000
9/1/2022	INDO COAL >...	CONVEYOR	33CV304 - C...	Administrator ...	40.000



# Planning Management



# Blending Plan

SmartMining

Search for anything

Production & Logisti... / Planning / Blending Saturday, February 18, 2023

From: 01 Jan 2023 00:00 To: 18 Feb 2023 00:00 OK

**Blending**

Drag a column header here to group by that column

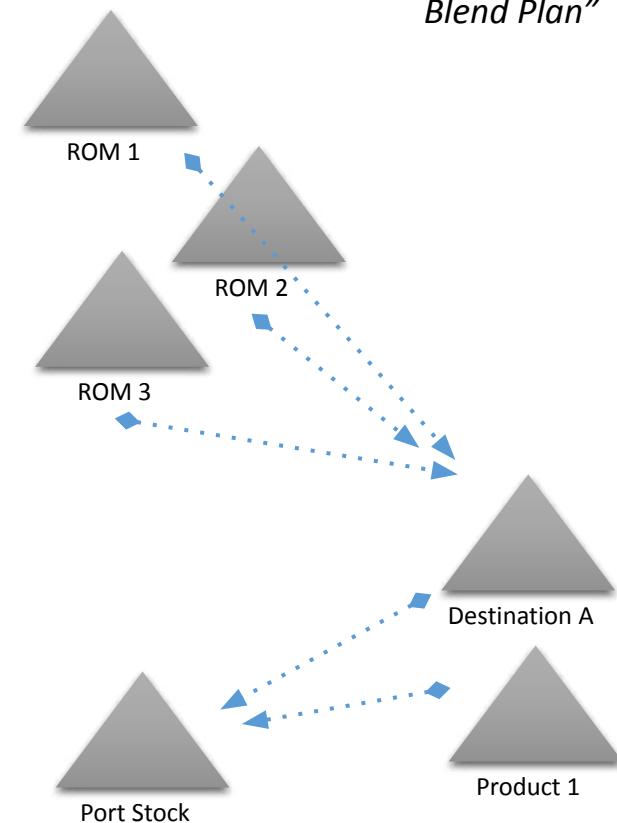
	T...	↑	Cat...	Product	Pla...	De...	De...	Volume	TM	IM	AC	VM	FC	TS	CV ...	CV ...	
	SEARCH	(...)	(All)	Indo Product Coal	2/2/...	CPP ...	25,500.000	36.290	21.159	5.899	40.203	33.760	0.711	4,947	3,997		
				Indo Product Coal	2/2/...	CPP ...	26,750.000	30.674	17.574	188.126	33.995	28.687	0.545	4,183	3,360		
				Indo Product Coal	2/3/...	CPP ...	33,750.000	30.651	17.457	150.036	33.163	28.477	0.649	4,116	3,288		
				Indo Product Coal	2/4/...	CPP ...	33,250.000	31.459	17.877	152.139	33.610	28.989	0.577	4,177	3,322		
				Indo Product Coal	2/4/...	CPP ...	33,500.000	30.393	17.543	150.928	32.570	28.239	0.542	4,071	3,262		
				Indo Product Coal	2/5/...	CPP ...	31,500.000	32.847	18.679	222.869	35.102	30.276	0.613	4,371	3,480		

**Sources**

Drag a column header here to group by that column

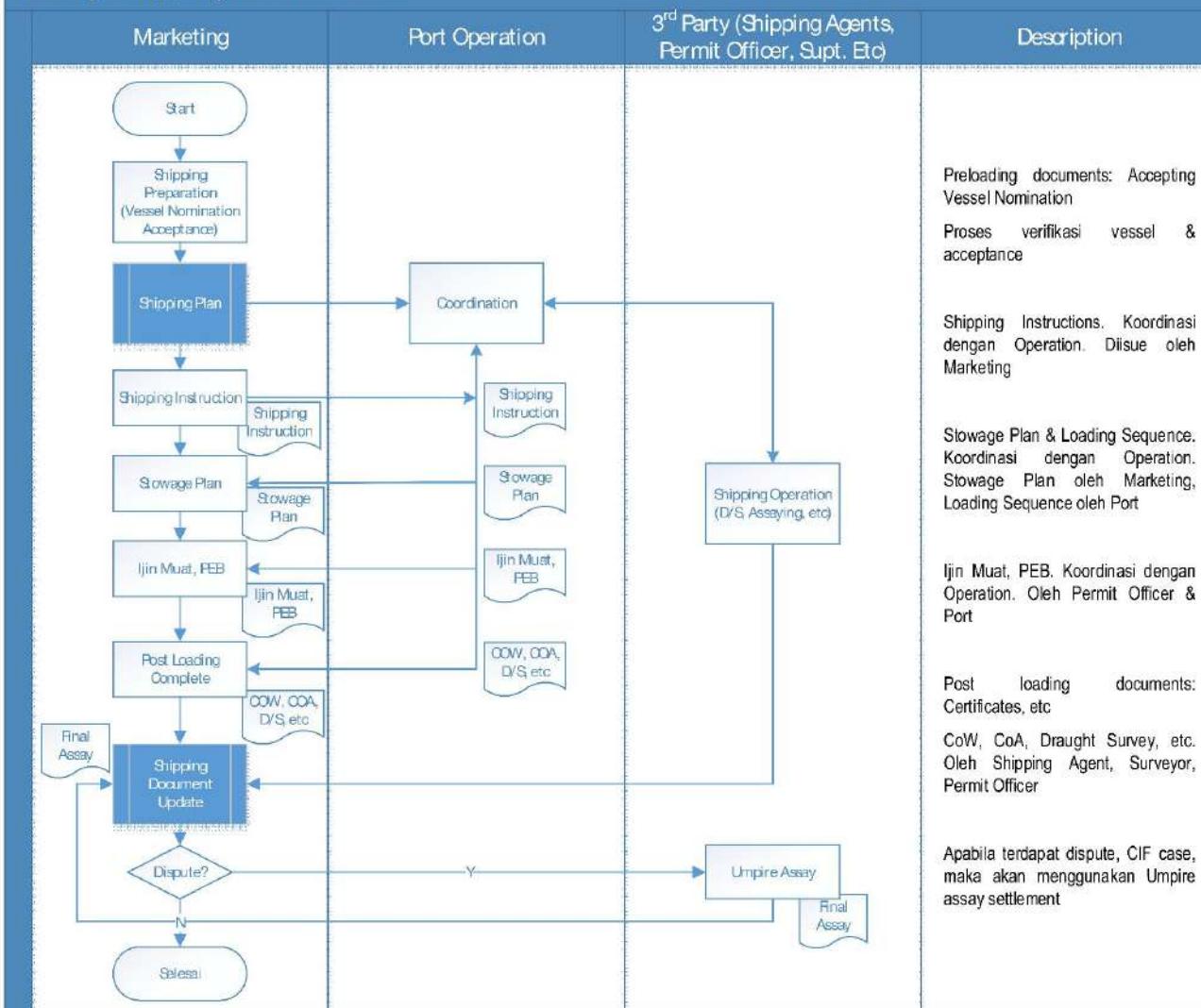
SPEC...	Sourc...	Sampl...	IKH Pit	Note	Volume	TM	IM	AC	VM	FC	TS	CV (a...	CV (ar)		
				IKH-CM...	27,750	37.286	21.203	5.672	39.846	34.368	0.650	4,962	3,950		
				PORT S...	1,750	0.000	0.000	3,921.701	0.000	0.000	0.725	0	6		
				CPP KM...	2,000	0.000	0.000	0.000	0.000	0.000	0.000	0	0		

*“Forecasted Stock as Source Blend Plan”*



# Shipment Plan to Operation

## Manage Shipping Plan/Schedule



Production & Logist...	/ Port	/ Barging	/ Loading	Wednesday, September 7, 2022							
From:	01 Sep 2022 00:00	To:	30 Sep 2022 00:00	OK							
Loading											
Drag a column header here to group by that column											
<div style="display: flex; justify-content: flex-end; align-items: center;"> <span style="margin-right: 10px;">Actions</span> <span style="margin-right: 10px;">More</span> </div>											
Transac...	Despatch...	Sales Co...	Buyer	Source L...	Barge	Transport	Draft Sur...	Unit	Commenc...	Comple...	
Q	(All)	(All)	(All)	(All)	(All)	(All)	(All)	(All)	(All)	(All)	
BGL-202209...	DO-202207...	07/IC-PLN/I...	PERUSAHA...	15A Kaliora...	BG FITRIA 3...	BG. FITRIA 3...	10,000.000	MT	2022-09-06 ...	2022-09-06 ...	 
BGL-202209...	DO-202207...	22/13/IDC...	Anaga Abyu...	15A Kaliora...	BG. JINGXI 06	BG. JINGXI 06	7,500.000	MT	2022-09-06 ...	2022-09-06 ...	 
BGL-202209...	DO-202207...	22-01/IDC...	TRAFIGURA ...	15A Kaliora...	BG. JINGXI 06	MV. W-ORI...	7,200.000	MT	2022-09-06 ...	2022-09-06 ...	 

## Shipment Loading

Certificate of Weight											
Drag a column header here to group by that column											
Survey Number	Survey Date	Bill of Lading Date	Bill of Lading Number	Surveyor	Product	Quantity	Unit	Dispatch Order	Transport	Customer	Update Number
Q	Q	Q	Q	(All)	(All)	Q	(All)	(All)	Q	(All)	Q
00189/XC004P	6/23/2022	6/13/2022	BLU	—	360	1	1	50,000	MT	DO-20220724-015	Update Number

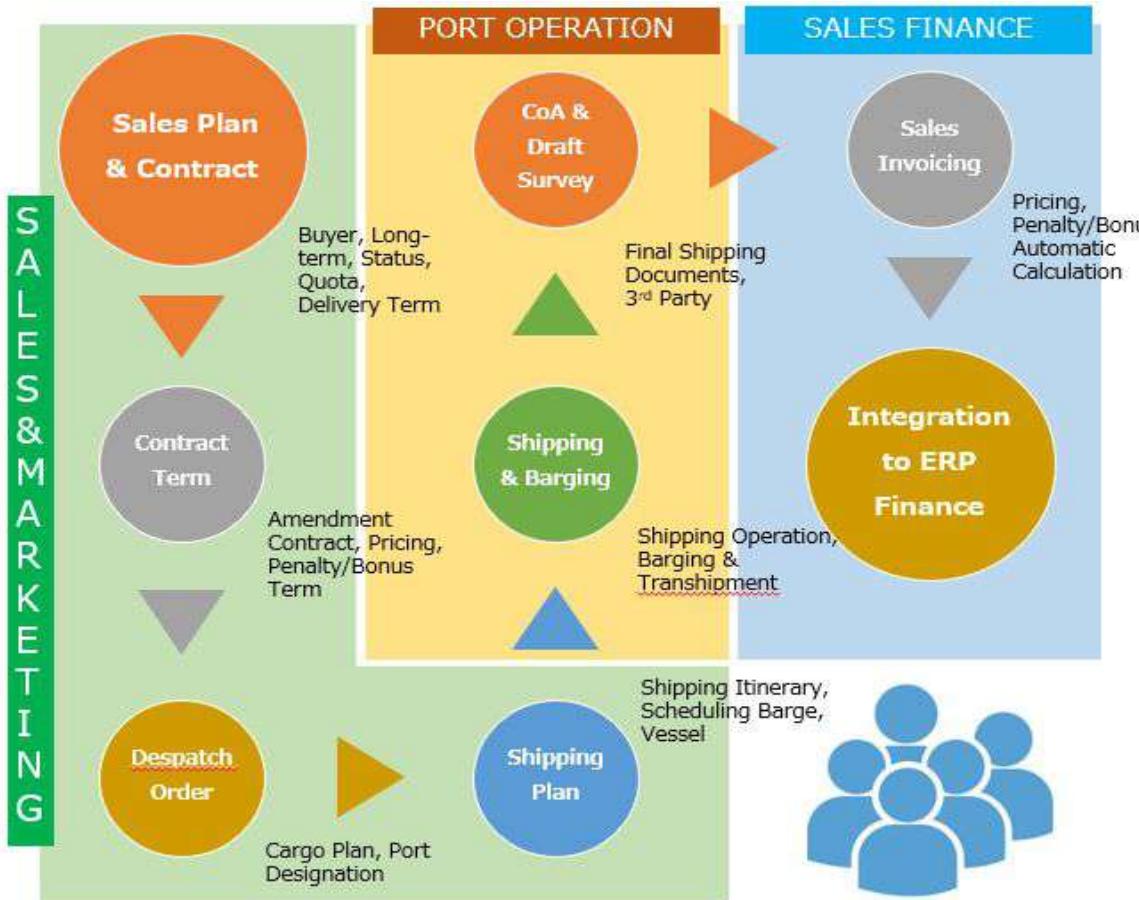
  

CDW Details											
Drag a column header here to group by that column											
Survey Number	Survey Date	Bill of Lading Date	Bill of Lading Number	Surveyor	Product	Quantity	Unit	Customer	Transport	Update Number	Comments
Q	Q	Q	Q	(All)	(All)	Q	(All)	(All)	Q	(All)	Q
224	8/1/2022	8/5/2022	2455				MT			27,000,000	
23	7/30/2022	7/30/2022	23				MT			23,000,000	INDEX

## Shipping Documents (COW, COA, BAST, etc)

# Sales Marketing Package

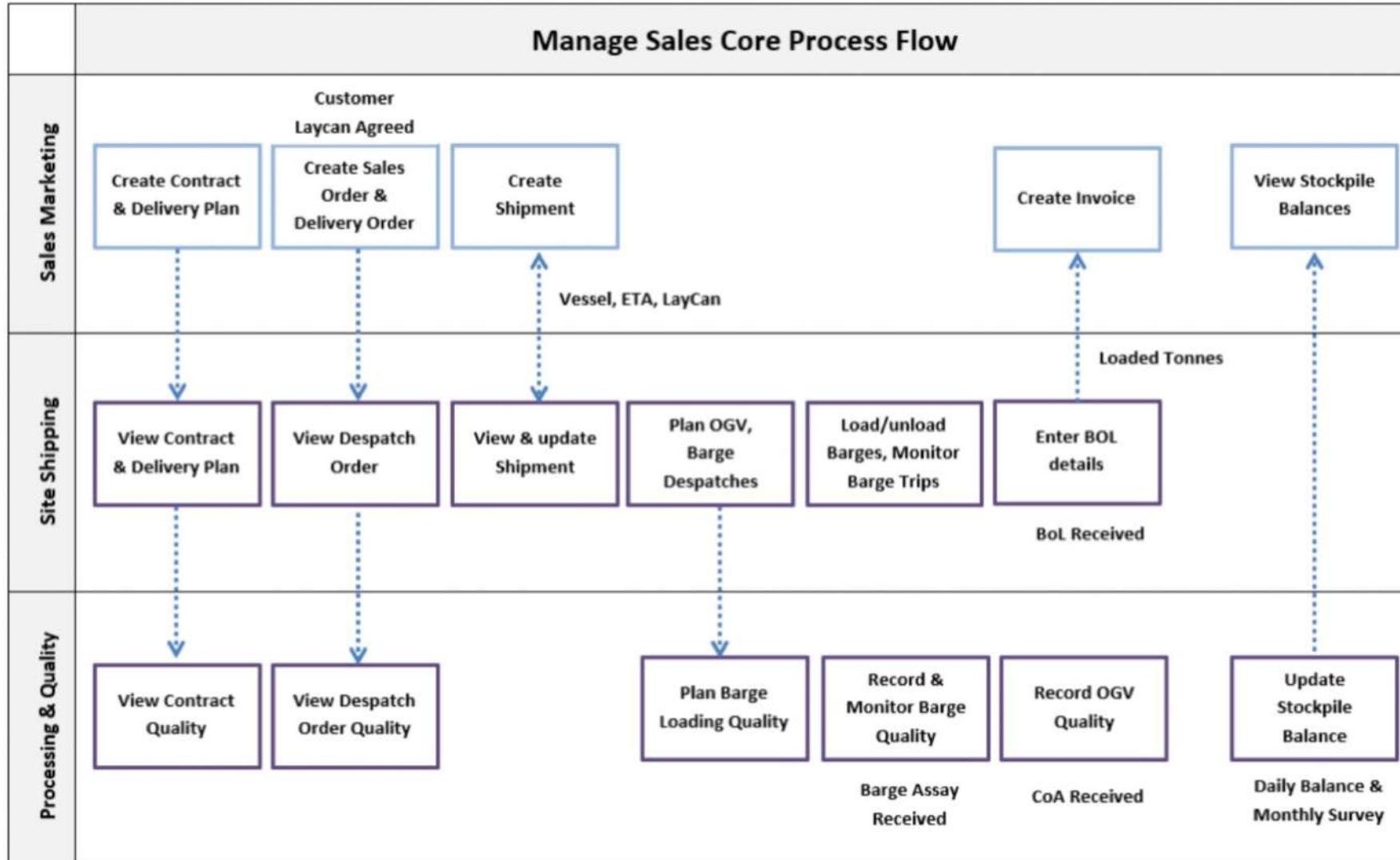
## “sales & marketing operation”



## SMCS Sales Marketing

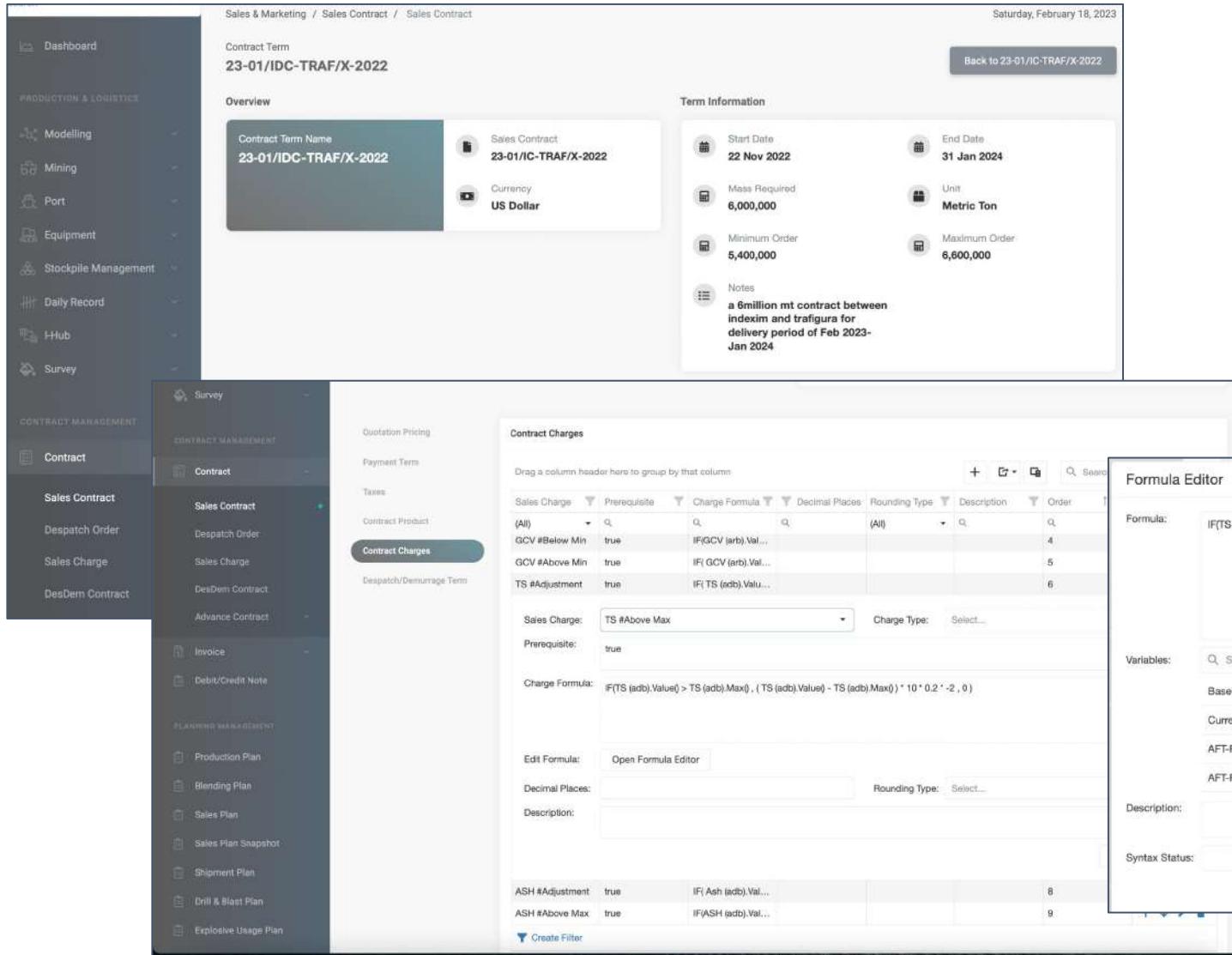
Modelling	Planning	Quality & Material
✓ Operation Area ✓ Stockpiles ✓ Port Location ✓ Flow Process	✓ Sales Plan ✓ Shipment Plan	✓ Material ✓ Product Spec ✓ Analyte & Template ✓ Certificate of Analysis
Stockpile	Sales	Contract
✓ Incoming Outgoing ✓ Stock Survey ✓ Stockpile State	✓ Barging ✓ Shipment ✓ Shipping Documents ✓ Despatch Demurrage	✓ Advanced Contract ✓ Complex Formulation ✓ Sales Contract

# Improve Visibility & Coordination Process



- Organized Contract, from master to amendment & historical changes
- Validated Source of Initial Information & Shipping Instruction
- Sales, Port, Quality, & Finance integrated operation process
- Backward Audit-Trail from Sales invoice to Contract for Auditor

# Manage Sales Contract



- Sales Contract Attributes
- Contract Terms (Quota, Product, Specification)
- Quotation Pricing
- Payment Term
- Taxe/Royalty
- Contract Charges
- Despatch/Demurrage Term

# Shipment Plan to Shipping Instruction



*“Shipping Instruction to 3rd Party Logistics & Internal Divisions (Port, Quality, & Finance)”*

The screenshot shows the SmartMining software interface. The left sidebar contains a navigation menu with categories like Dashboard, PRODUCTION & LOGISTICS, CONTRACT MANAGEMENT, and CONTRACT. The main area is titled 'Shipping Instruction' and displays a table of shipping data. The table has columns for Transaction ID, SI Date, Despatch Order, SI Number, Buyer, Created By, and various shipping details like To Company, SI Type, Superintending, PBM, and Shipping Agent. The interface includes search, filter, and print functions, and a bottom navigation bar with page numbers and a search bar.

**SHIPPING INSTRUCTION**  
269/IC-SI/VII/2022

Ref. Despatch Order No.:	: DO-20220810-010																
Ref. Work Order No.:	: 00004547																
1.To Company	: BORNEO PERSADA UTAMA PT																
2.Shipper	: INDEXIM COALINDO, PT GEDUNG SAHID SUDIRMAN CENTER LT. 31 JL JEND. SUDIRMAN KAV.86 RT. 010 RW. 011 INDONESIA																
3.Consignee	: PT. SHENHUA GUOHUA PEMBANGKITAN JAWA BALI																
4.Notify Party	: PT. SHENHUA GUOHUA PEMBANGKITAN JAWA BALI																
5.Notify Party Address	:																
6.Vessel Information	<table border="0"><tr><td>Vessel's Nomination</td><td>:</td></tr><tr><td>Vessel's Type</td><td>: GEARED VESSEL</td></tr><tr><td>E.T.A</td><td>: Sunday, July 24, 2022</td></tr><tr><td>Flag/IMO Number</td><td>: INDONESIA / 9266097</td></tr><tr><td>DWT/NT/GT</td><td>: 53,553 MT / 29,980 MT / 18,486 MT</td></tr><tr><td>Master/Voy.No</td><td>: CAPT. DJONI SOEDARSONO / V 09/KR/L/2022</td></tr><tr><td>Cargo Description</td><td>: INDONESIAN STEAM COAL IN BULK</td></tr><tr><td>Quantity (MT)</td><td>: 0 (± 10 %)</td></tr></table>	Vessel's Nomination	:	Vessel's Type	: GEARED VESSEL	E.T.A	: Sunday, July 24, 2022	Flag/IMO Number	: INDONESIA / 9266097	DWT/NT/GT	: 53,553 MT / 29,980 MT / 18,486 MT	Master/Voy.No	: CAPT. DJONI SOEDARSONO / V 09/KR/L/2022	Cargo Description	: INDONESIAN STEAM COAL IN BULK	Quantity (MT)	: 0 (± 10 %)
Vessel's Nomination	:																
Vessel's Type	: GEARED VESSEL																
E.T.A	: Sunday, July 24, 2022																
Flag/IMO Number	: INDONESIA / 9266097																
DWT/NT/GT	: 53,553 MT / 29,980 MT / 18,486 MT																
Master/Voy.No	: CAPT. DJONI SOEDARSONO / V 09/KR/L/2022																
Cargo Description	: INDONESIAN STEAM COAL IN BULK																
Quantity (MT)	: 0 (± 10 %)																
7.Port Information	<table border="0"><tr><td>Port of Loading</td><td>: KALIORANG ANCHORAGE, EAST KALIMANTAN, INDONESIA</td></tr><tr><td>Port of Discharge</td><td>: JETTY PLTU JAWA 7</td></tr></table>	Port of Loading	: KALIORANG ANCHORAGE, EAST KALIMANTAN, INDONESIA	Port of Discharge	: JETTY PLTU JAWA 7												
Port of Loading	: KALIORANG ANCHORAGE, EAST KALIMANTAN, INDONESIA																
Port of Discharge	: JETTY PLTU JAWA 7																
8.Marked	:																
9.Place Issued	:																
10.Date Issued	: Saturday, July 23, 2022																

Date: Saturday, July 23,

Lampiran:	Created by	Approved by

# Sales Invoicing

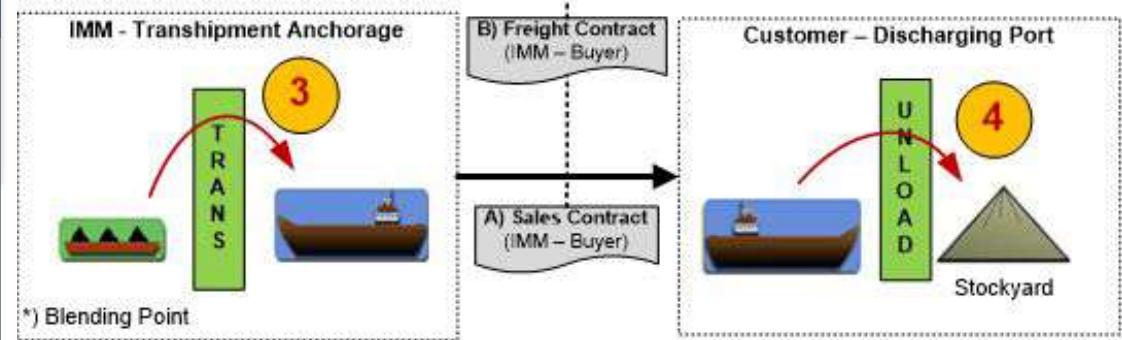
- Secure invoicing process

- Automatic invoice calculations from contract / marketing data
- Security / segregation of duties
- Audit trail
- Invoicing workflow

- Multiple invoices

- Provisional / Final / Credit / Debit Notes
- Accruals

- Integrated to accounting



# Despatch Demurrage

Contract Term  
23-01/IDC-TRAF/X-2022

Overview  
Contract Term Name: 23-01/IDC-TRAF/X-2022  
Sales Contract  
Currency: US Dollar

Term Information  
Start Date: 22 Nov 2022  
End Date: 31 Jan 2024  
Mass Required: 6,000,000  
Unit: Metric Ton  
Minimum Order: 5,400,000  
Maximum Order: 6,600,000

Notes: a 6million mt contract between indexmin and trafifigura for delivery period of Feb 2023-Jan 2024

Quotation Pricing  
Despatch/Demurrage  
Location: Kutai, Kalimantan, Indonesia  
Loading Rate Gears (mt/day): 10,000  
Loading Rate Gearless (mt/day): 15,000  
Turn Time (Hour): 12  
Rate: USD  
Despatch (%): 50  
Save

Search for anything

Port / Despatch-Demurrage / Statement of Fact Saturday, February 18, 2023

Statement of Fact

Drag a column header here to group by that column

Start Date	End Date	Code
2022-08-03 02:00:00	2022-08-03 03:00:00	CPL
2022-08-03 01:00:00	2022-08-03 02:00:00	IDS
2022-07-31 07:00:00	2022-08-03 01:00:00	CNL
2022-08-05 11:00:00	2022-08-03 12:30:00	LCN
2022-07-31 04:50:00	2022-07-31 07:00:00	HRN
2022-07-26 16:30:00	2022-07-26 17:30:00	IND
2022-07-25 18:30:00	2022-07-26 16:30:00	LCM
2022-07-26 17:30:00	2022-07-31 04:50:00	CML

**LAYTIME CALCULATION**

No: 002/LTC-IC/440/01/2023  
Date: January 15, 2023

Alamat : Sahid Sudirman Center Lantai 31  
Jl. Jendral Sudirman No. 86  
Jakarta 10220, Indonesia  
P : (+6221) 50807177 F : (+6221)  
50807107

DESPATCH / DEMURRAGE RATE:  
(Ref : DO-20230102-302 / WO-00008948 from marketing)

Description	Unit	Rate Unit	Amount
Despatch	Per Day	USD/Day	6,000
Demurrage	Per Day	USD/Day	12,000

Party / Buyer : TRAFIGURA ASIA TRADING PTE  
Name of Ship : MV. EGE S  
B/L Date : January 09, 2023  
Loading Port : KALIORANG ANCHORAGE, EAST KALIMANTAN, INDONESIA  
Discharging Port : ANY PORT(S) IN INDIA

Laycan : 1/1/2023 - 1/10/2023

Description	Unit	Total	Remarks
Cargo Qty	MT	56,608	
Loading Rate	MT/Day	10,000	
Time Allowed	5 Days 15 Hours 51 Minutes		

LAYTIME CALCULATION DESPATCH /

Description	Date
N.O.R TENDERED	Thursday, 05 January 2023 09:20
N.O.R ACCEPTED	-
LAYTIME COMMENCED	-
COMMENCED LOADING	Thursday, 05 January 2023 12:10
COMPLETED LOADING	Monday, 09 January 2023 14:40

LOADING ACTIVITY :

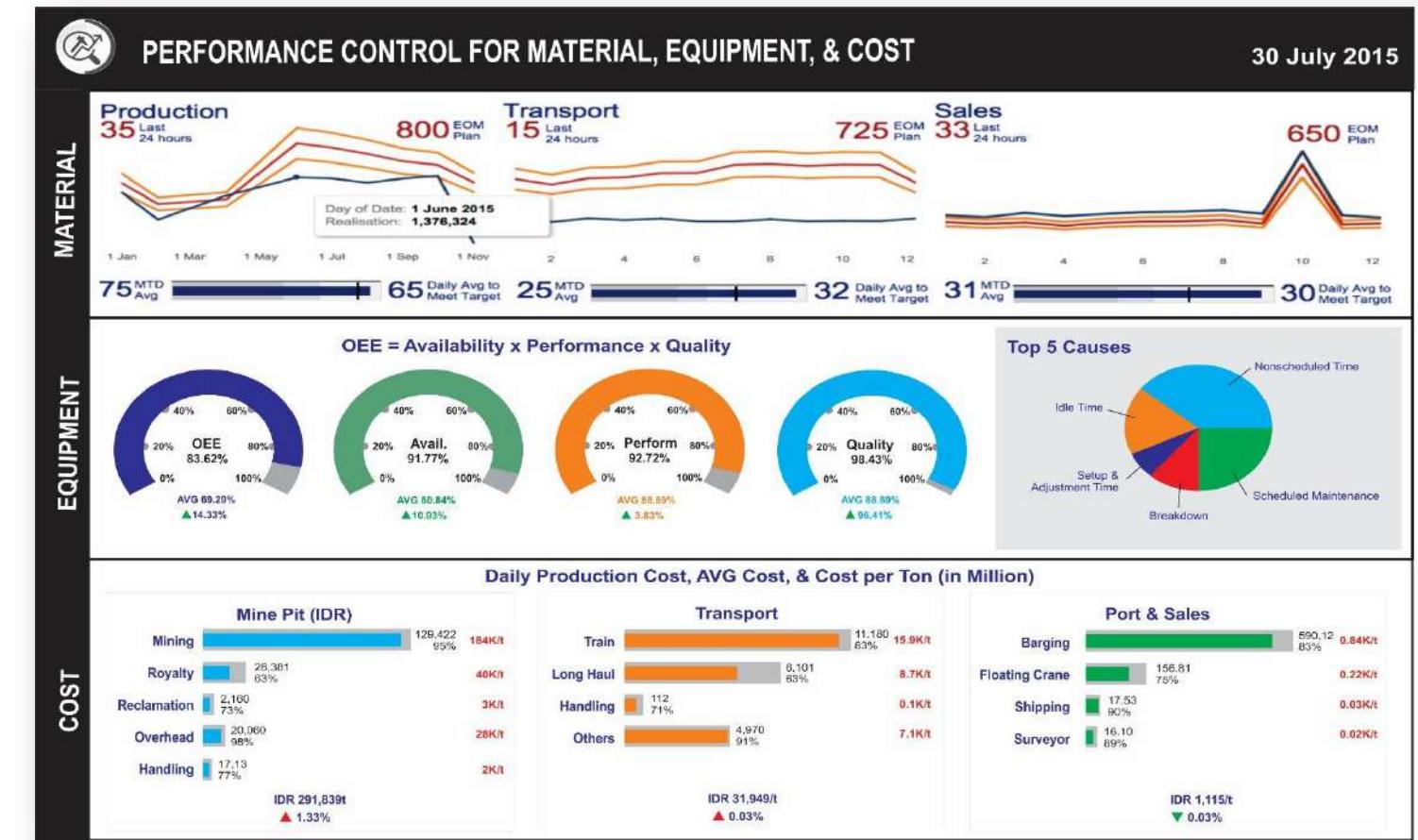
Description	Date
N.O.R TENDERED	Thursday, 05 January 2023 09:20
N.O.R ACCEPTED	-
LAYTIME COMMENCED	-
COMMENCED LOADING	Thursday, 05 January 2023 12:10
COMPLETED LOADING	Monday, 09 January 2023 14:40

Start End Percentage D-H-M Laytime Used Remark

01/05/23 09:20	01/05/23 12:10	0	0:0:0	0.000000	Turning Time
01/05/23 12:10	01/06/23 00:00	100	0:11:50	0.493056	Commenced Loading
01/06/23 00:00	01/06/23 15:25	100	0:15:25	0.642361	Continued Loading
01/06/23 15:25	01/06/23 18:30	0	0:0:0	0.000000	Heavy Rain
01/06/23 18:30	01/07/23 00:00	100	0:5:30	0.229167	Continued Loading
01/07/23 00:00	01/07/23 00:20	100	0:0:20	0.013889	Continued Loading
01/07/23 00:20	01/07/23 05:45	0	0:0:0	0.000000	Heavy Rain
01/07/23 05:45	01/08/23 00:00	100	0:18:15	0.760417	Continued Loading
01/08/23 00:00	01/08/23 06:30	100	0:6:30	0.270833	Continued Loading
01/08/23 06:30	01/08/23 08:30	0	0:0:0	0.000000	Heavy Rain
01/08/23 08:30	01/09/23 00:00	100	0:15:30	0.645833	Continued Loading
01/09/23 00:00	01/09/23 10:40	100	0:10:40	0.444444	Continued Loading
01/09/23 10:40	01/09/23 11:40	0	0:0:0	0.000000	Intermediate Draft Survey
01/09/23 11:40	01/09/23 14:40	100	0:3:0	0.125000	Completed Loading

Prepared By      Checked By      Approve By      Catatan

# Producing Managerial Dashboard from material & equipment with cost control in day to day basis



- The ability to understand the performance of production against equipment & cost.
- The ability to review past performance with specific date or today's performance.
- Detailed analysis the cause of high or low production with clear information from equipment aspect.

Edit Master text styles

- 1 About Us**  
PT. Adiraja Integrasi
- 2 Selected Portfolios**  
Supply Chain Management
- 3 SMCS Smart Mining**  
Functionalities coverage
- 4 SMCS Command Centre**  
Dashboard Function
- 5 Study Case**  
Challenges & Goal



# SMCS Command Centre Dashboards



Corporate

Asset &  
Work  
Management

Operation  
Management

Control  
System

Devices



Production & Sales  
Monitoring

Fleet Management  
Monitoring

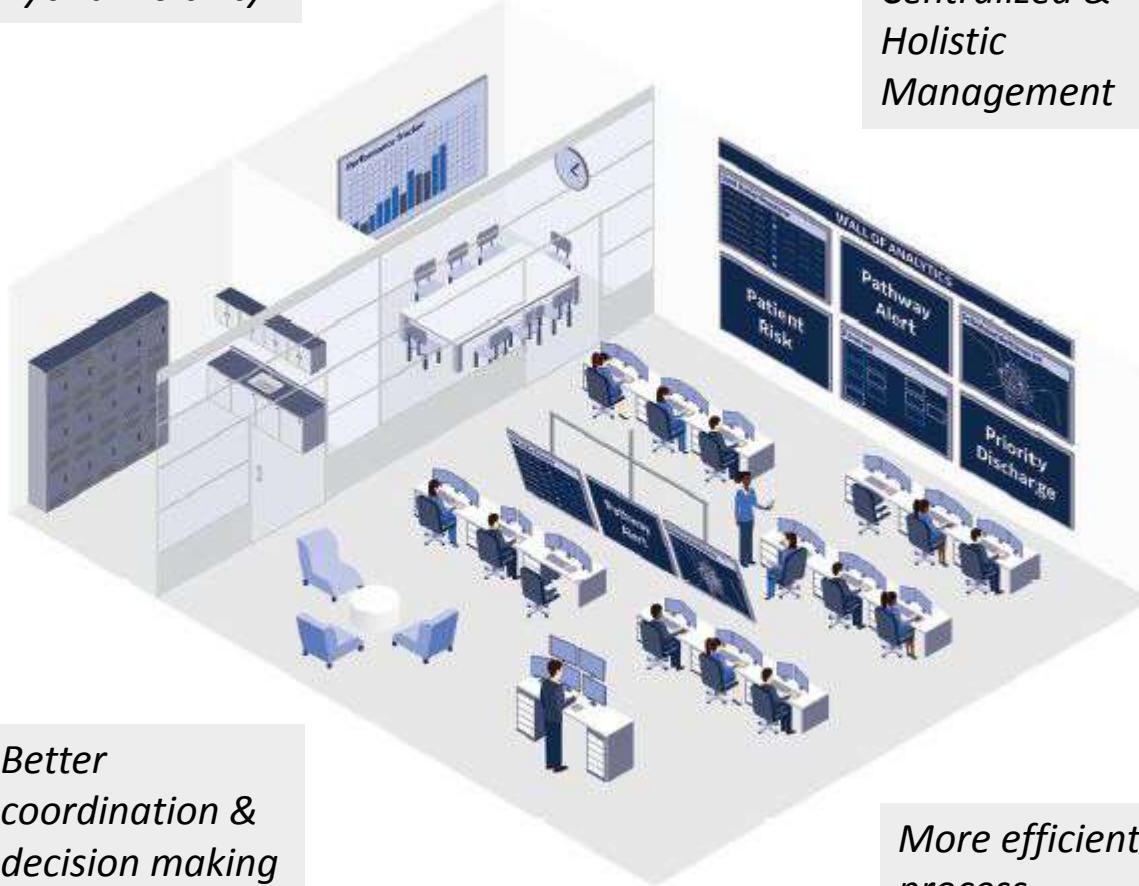
Stock Live  
Monitoring

Long Hauling  
Monitoring

Shipment  
Monitoring

# SMCS Command Centre Layout

## End-to-end Hybrid Visibility



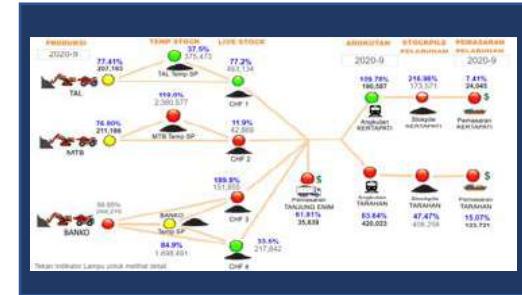
## *Centralized & Holistic Management*

## *More efficient process*

*Better coordination & decision making*



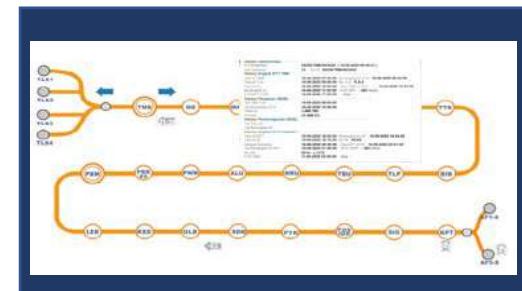
## Live Production & Sales Monitoring



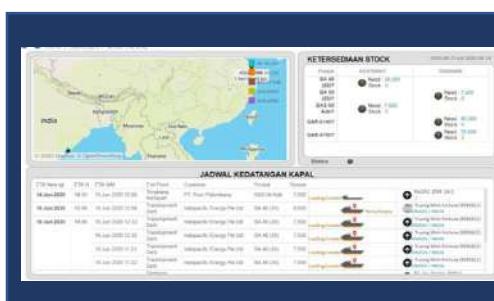
## Fleet Management Monitoring



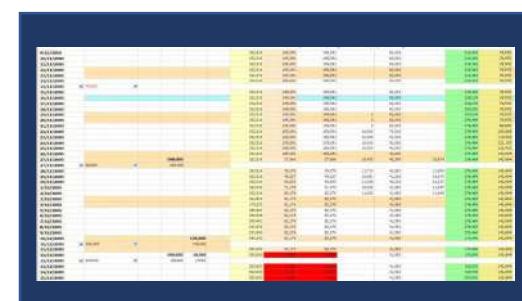
## Stock Live Monitoring



## Long-Hauling Monitoring

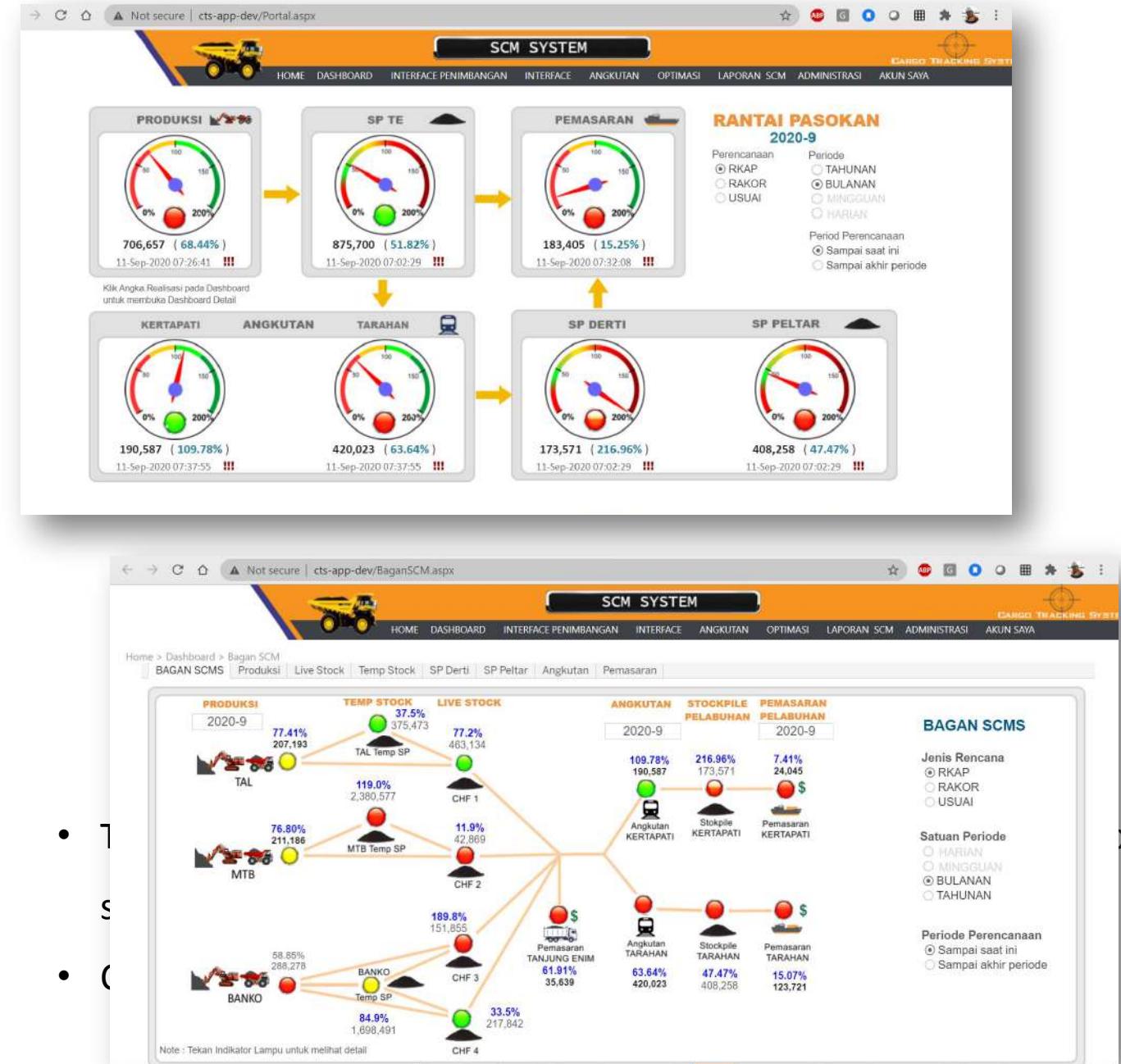


## Shipment Monitoring

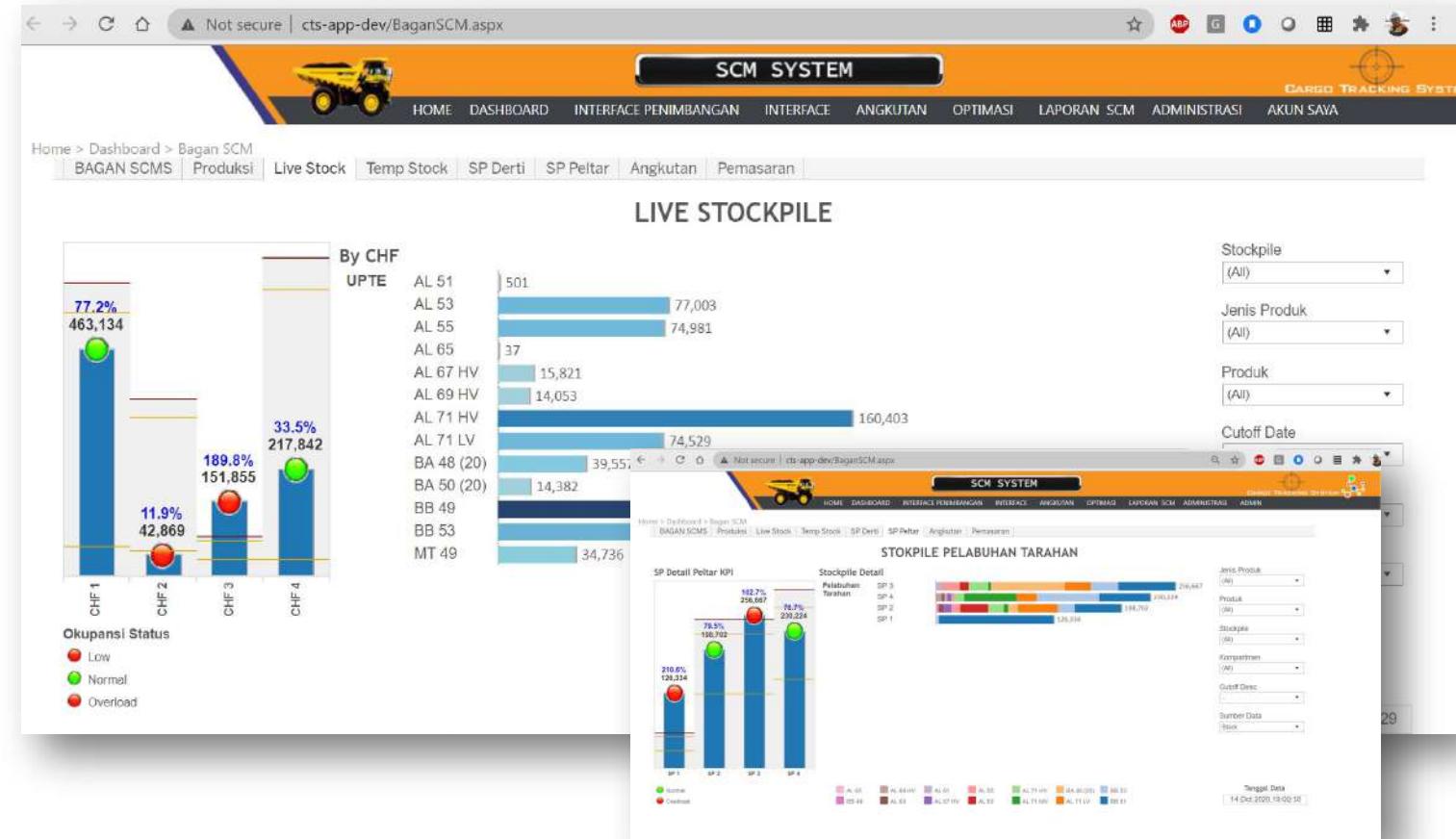


## Production & Sales Plan Scheduling 33

# High-level end to end real-time operation monitoring

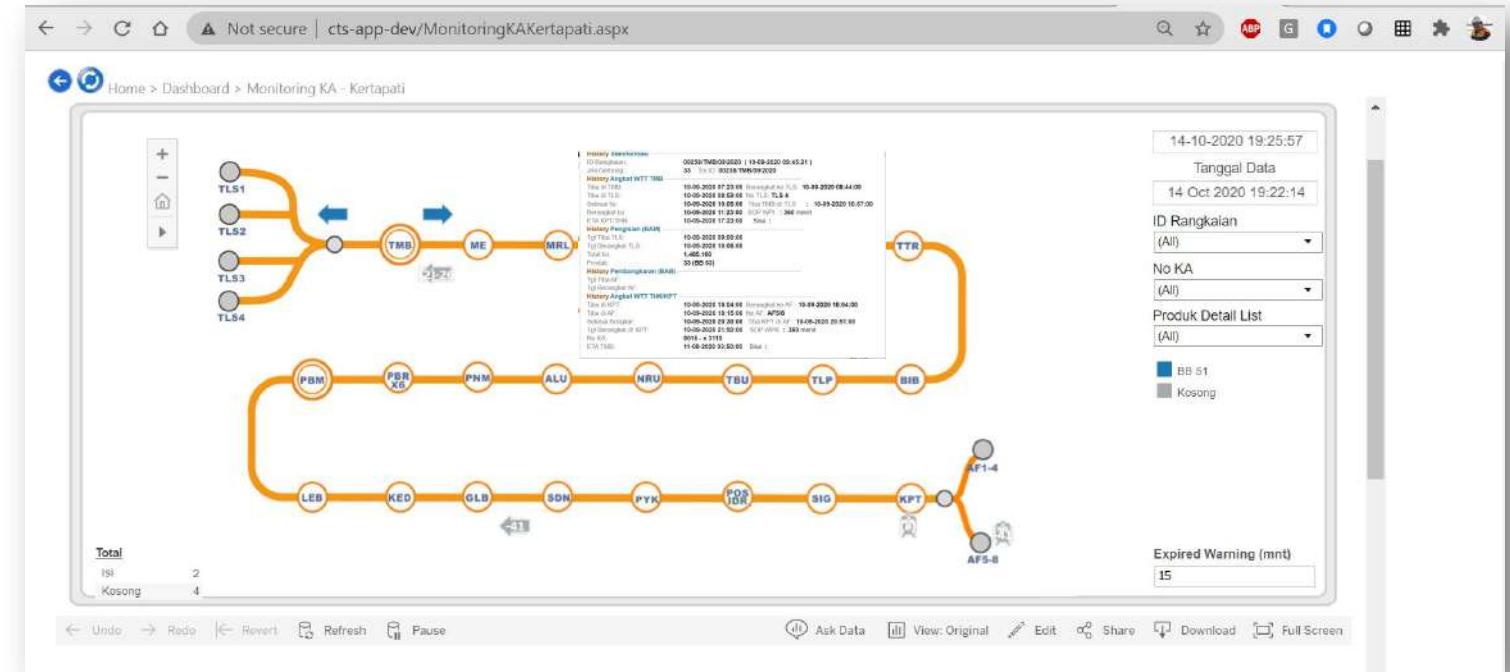


# Live stockpile real-time operation monitoring



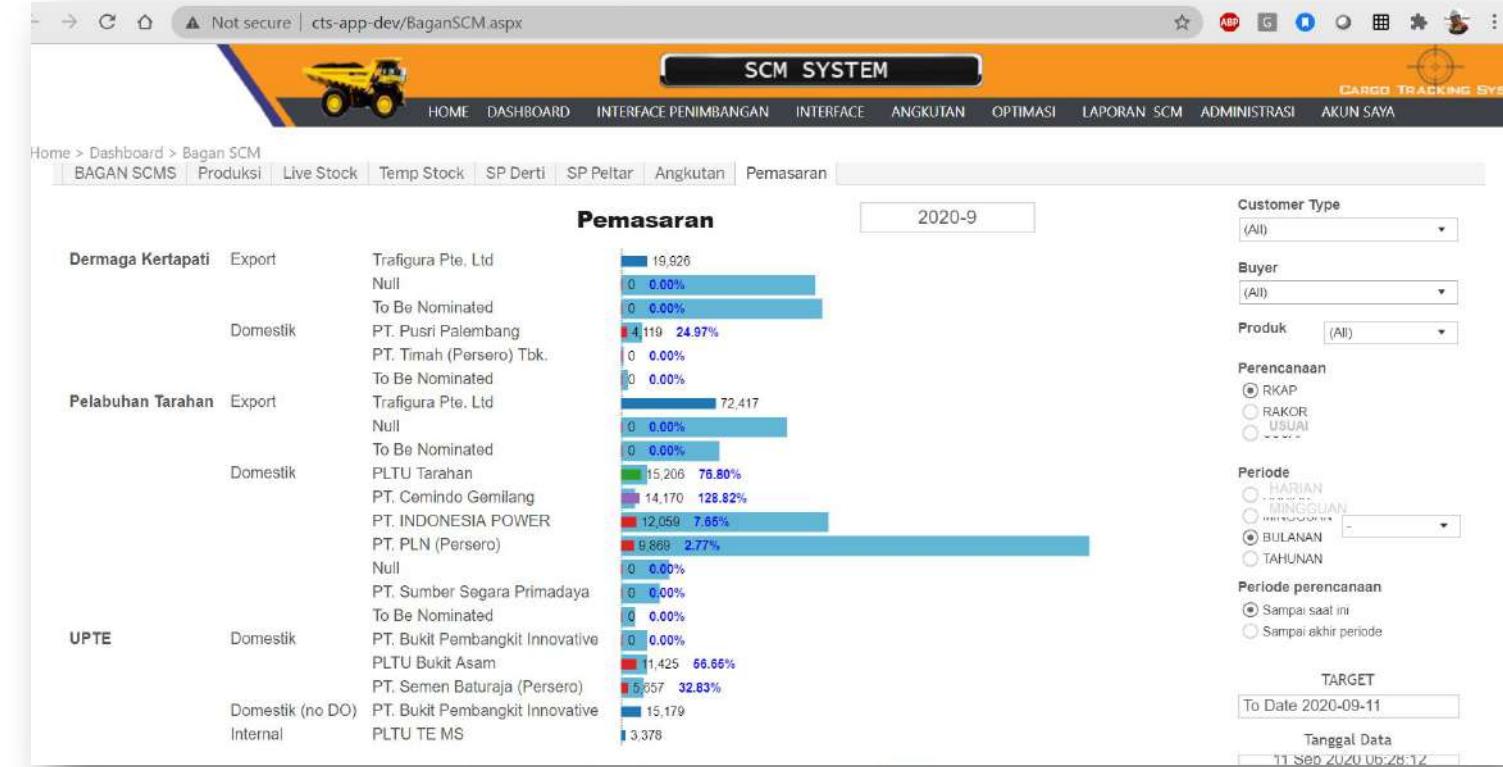
- The ability to visualize actual stockpile amount with occupancy status from every location.
- Detailed grade/product quality type information per stockpiles.

# Long hauling real-time operation monitoring



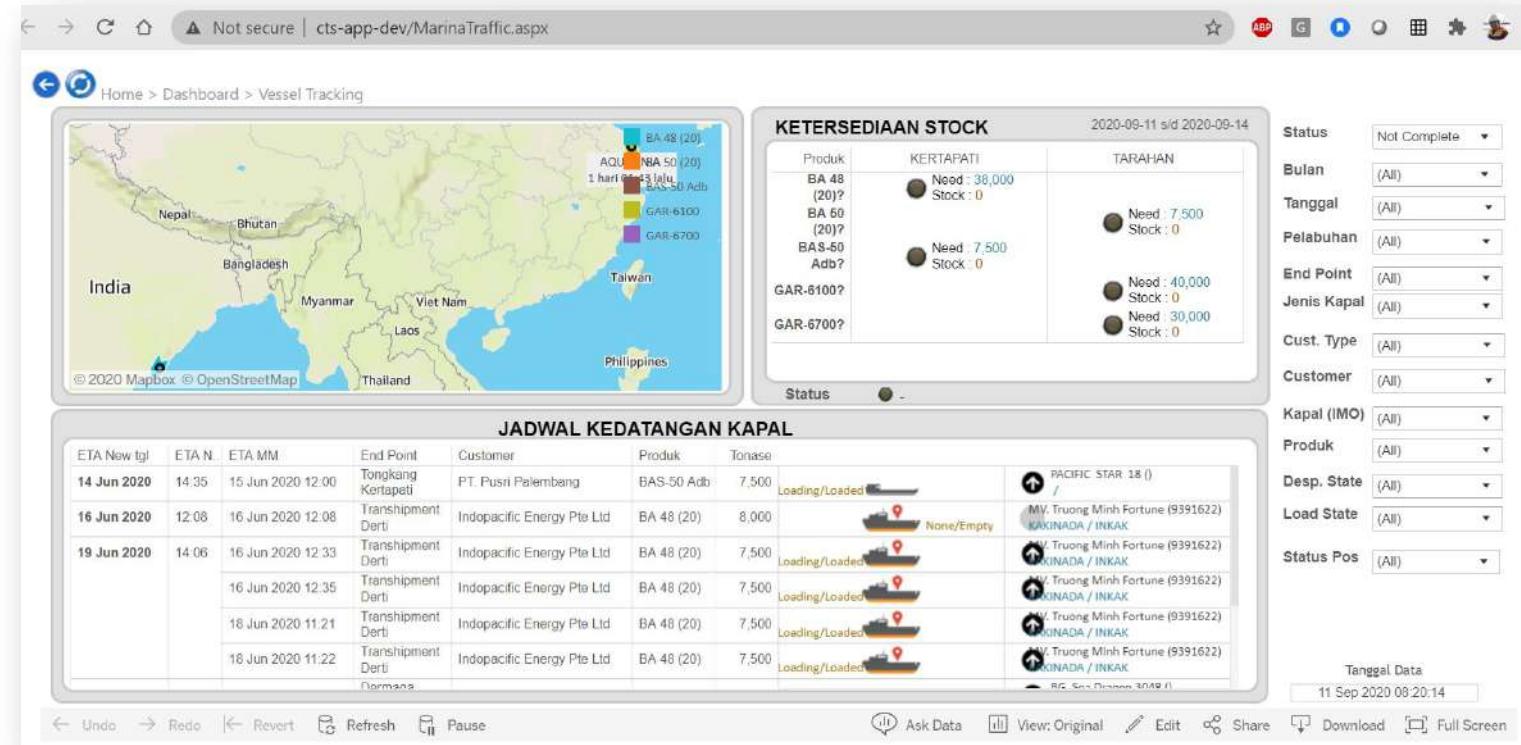
- The ability to visualize real-time position & status of a long hauling transport between route-point.
- Detailed transportation schedule with historical information to help monitoring performance.

# Sales summary from actual delivery against contract monitoring



- The ability to see the whole sales progress against contract delivery target per buyer.

# Port management to monitor and arrange shipping line-up with real-time view



The screenshot displays a port management system interface. At the top, a map of Southeast Asia shows vessel positions with labels like 'AQU-50 (20)', 'BA 48 (20)', 'BA 50 (20)', 'GAR-6100', and 'GAR-6700'. Below the map is a table titled 'KETERSEDIAAN STOCK' showing stock levels for various products. To the right is a search bar with filters for 'Status', 'Bulan', 'Tanggal', 'Pelabuhan', 'End Point', 'Jenis Kapal', 'Cust. Type', 'Customer', 'Kapal (IMO)', 'Produk', 'Desp. State', 'Load State', and 'Status Pos'. The main content area contains a table titled 'JADWAL KEDATANGAN KAPAL' listing vessel arrivals, including columns for ETA, Customer, Produk, and Tonase. Each row includes a small ship icon and status information like 'Loading/Loaded' or 'None/Empty'.

- The ability to see the entire vessel position, status, and detailed information such as capacity size & designated product.
- The provided vessel information can be used to analyze the stock availability to be managed for quick decision making on scheduled coal transport supply.

Edit Master text styles

## 1 About Us

PT. Adiraja Integrasi

## 2 Selected Portfolios

Supply Chain Management

## 3 SMCS Smart Mining

Functionalities coverage

## 4 SMCS Command Centre

Dashboard Function

## 5 Study Case

Challenges & Goal

# Study Case

Real solutions. Real results.

# Study Case – Indexim Coalindo & KMIA



- Difficulties in managing the supply chain
  - Lack of visibility across the value chain
  - Unaccountable losses
  - Delay in reporting
- Misaligned production and marketing objectives
  - Produce at lower cost – maximize revenue stream
  - Ability to capitalize in spot sales
  - Blend down to requirement specifications

**GOAL = Process Efficiency, Cost Control, & Better Decision Making**

- Lack of standardized processes
  - Multiple and conflicting versions of data
  - Discrepancies across different business units
  - Regulatory compliant issues
- Non value-added activities
  - End-of-month rush
  - Duplicate/multiple data entries
  - Delay in generating invoices -> financial loss



# Visit & Contact us

[www.adiraja-integrasi.com](http://www.adiraja-integrasi.com)

+62 811 1789 333

