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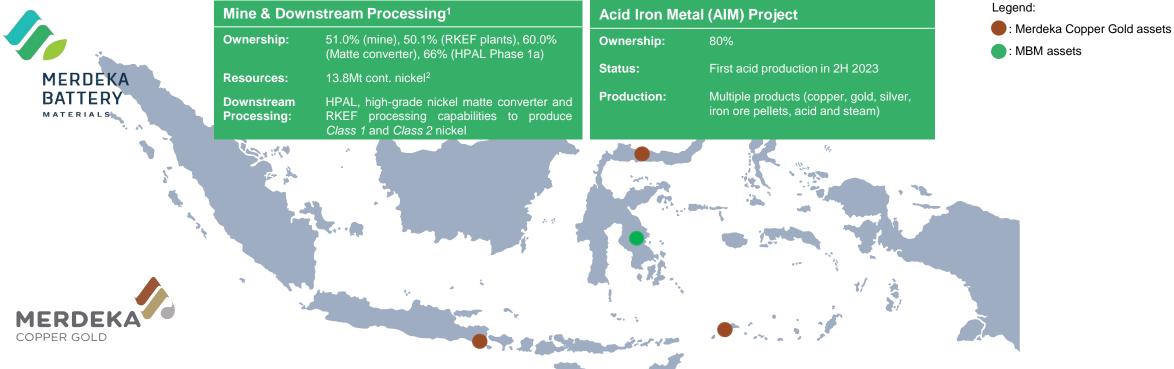
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#### **Portfolio Overview**

Merdeka controls a portfolio of globally significant assets across Indonesia with group mineral resources of 35.2Moz of gold, 8.4Mt of copper, 13.8Mt of nickel and 1.0Mt of cobalt



Tujuh	Tujuh Bukit Copper Project Tujuł		Tujuh Bukit	Tujuh Bukit Gold Mine		Wetar Copper Mine		Pani Gold Project	
Owner	rship:	100%	Ownership:	100%	Ownership:	100%	Ownership:	70%	
Status	s:	FS commenced	2023	120,000 – 140,000 ounces of gold	2023	16,000 – 20,000 tonnes of	Status:	FS commenced	
Resou	irces:	8.1Mt cont. copper and 27.4Moz cont. gold <sup>2</sup>	Production Guidance:		Production Guidance:	copper cathode	Resources:	6.6Moz cont. gold <sup>2</sup>	

Ownership represents PT Merdeka Battery Materials Tbk ("MBM") shareholding in the respective assets. Other assets include a 32.0% shareholding in IKIP, a limestone concession (IUP) covering 502Ha and a hydro power project
 Resources information as of 31 December 2022 (https://merdekacoppergold.com/wp-content/uploads/2023/04/Consolidated-Mineral-Resources-and-Ore-Reserves-Statement-as-of-31-December-2022.pdf)



Notable

### **Major Shareholders**

Provident, Saratoga and the Thohir Group have a long history of co-investments with a proven track record in building value through multi-billion-dollar companies, as well as attracting international institutional investors





Edwin Soeryadjaya

Michael Soeryadjaya

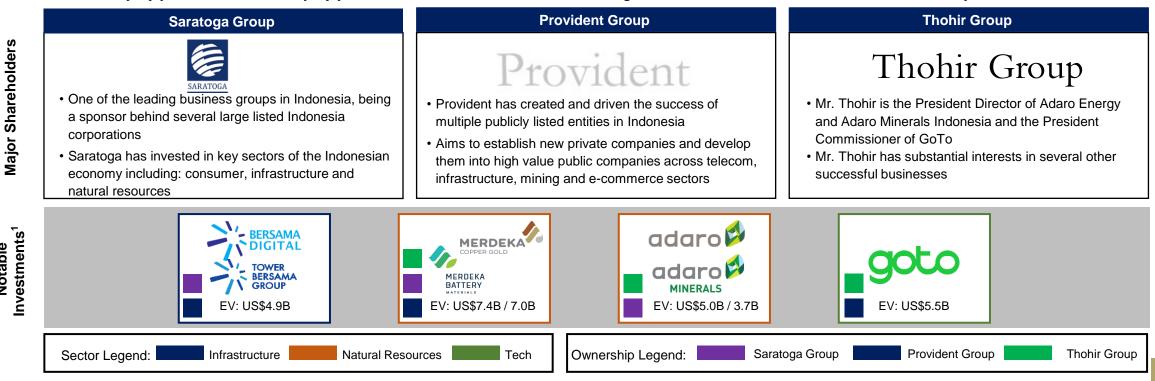


Gavin Caudle

Winato Kartono Hardi Liong



**Boy Thohir** 

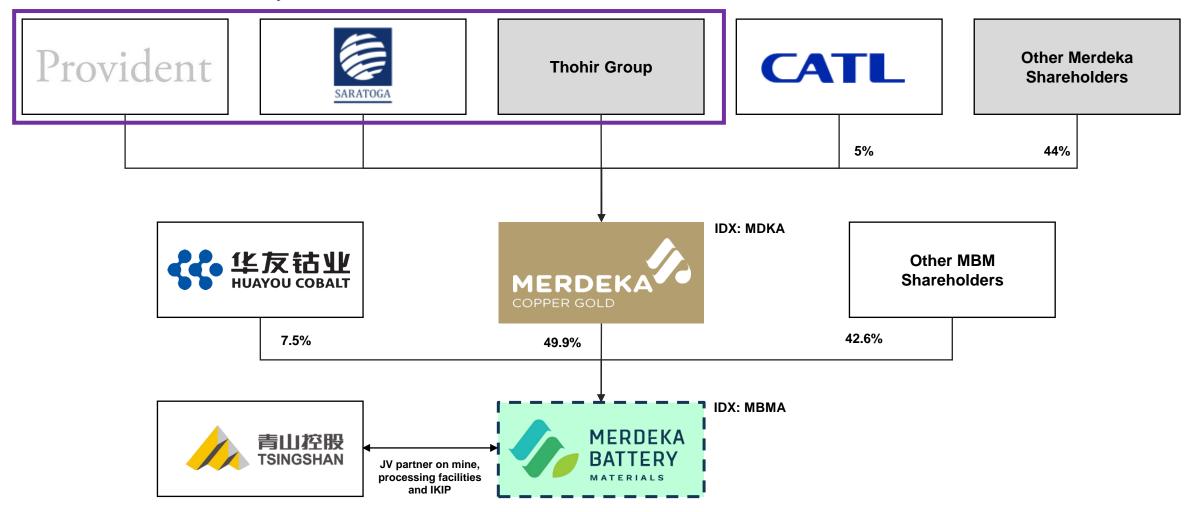


Note: The entities shown are not an exhaustive list of Provident, Saratoga and Thohir Group entities. Shown personnel above are not UBO, but rather key personnel 1. EV calculated based on share prices as of 4<sup>th</sup> September 2023



#### **Corporate Structure**

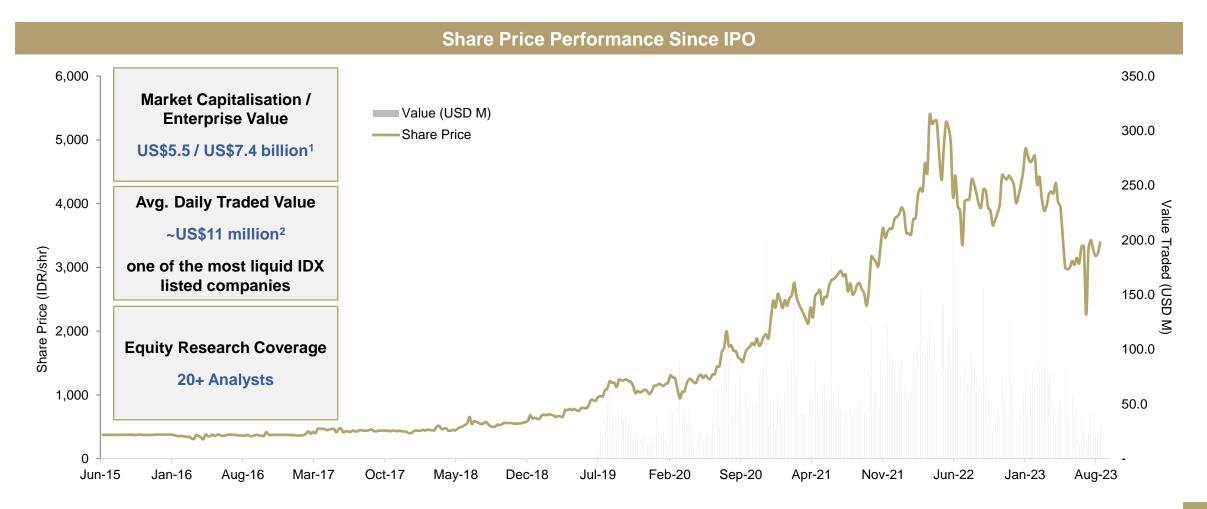
#### Key Indonesian Shareholders





### **Corporate Snapshot**

Merdeka has a unique growth pipeline and a proven track record of value creation



1. Cash US\$496 million, bank debt US\$289 million and IDR Bond US\$1.0 billion as of 30 June 2023. Market capitalisation and EV as of 4<sup>th</sup> September 2023

2. Average daily value of shares traded in 2023



### **Tujuh Bukit Gold Mine**

	Mine Information	Operational Highlights		
Mining Method Conventional open pit		Production for 2Q 2023 was 38,447 ounces of gold at an AISC of		
Metals	Gold and silver	US\$1,060/oz. YTD gold production was 64,277 ounces of gold at		
Mineralisation Type	High sulphidation epithermal	an AISC of US\$1,141/oz		
Ore Reserves <sup>1</sup>	0.6 Moz cont. Au & 27 Moz cont. Ag	Average grade and recoveries for the quarter were 0.84 g/t Au		
Mineral Resources <sup>1</sup>	1.1 Moz cont. Au & 61 Moz cont. Ag	<b>78.3%</b> , respectively		
Estimated Mine Life	~4 years			
Process Method	Oxide heap leach	On track to achieve 2023 production guidance of 120,000 -		
Recovery Rate Gold 79%		140,000 ounces of gold at an AISC of US\$1,100 – 1,300/oz net of		
Workforce	~3,200 employees and contractors	silver credits		



#### Heap Leach Pads and ADR Plant



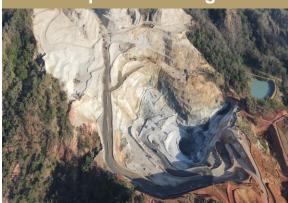
Three diamond drill rigs and one RC rig drilled eight diamond holes for **2,302 metres**, and 44 RC holes for **10,176 metres** during the quarter. A total of **~15,000 metres** of RC and diamond drilling is planned to continue testing along strike of and infill of current resources for the remainder of 2023

In July 2023, Merdeka achieved **20.0 million manhours** without Lost Time Injury ("LTI")



### Wetar Copper Mine

	$\backslash$			
Mine Information			Operational Highlights	
Mining Method	Conventional open pit		Production for 2Q 2023 was 3,128 tonnes of copper at an AISC of	
Metals	Coppe	r	US\$4.91/lb. YTD copper production was 7,181 tonnes of copper at an AISC of US\$4.87/lb	
Mineralisation Type	Volcar	ogenic massive sulphide ("VMS")		
Ore Reserves <sup>1</sup>	127 kt cont. Cu		On track to achieve 2023 production guidance of 16,000 - 20,000	
Mineral Resources <sup>1</sup>	153 kt	cont. Cu	tonnes of copper at an AISC of US\$3.70 - 4.70/lb	
Estimated Mine Life ~3 years		ırs	The focus going forward will be on extracting <b>maximum value</b> from the Wetar ore including production of copper and the sale of <b>pyrite ore</b> to the <b>AIM Project</b>	
Process Method	Sulphide heap leach			
Recovery Rate ~80%				
Workforce	~2,800	) employees and contractors	Wetar barge jetty construction is complete with wet	
Open Pit Mining Processing Plan		Processing Plant	Wetar barge jetty construction is complete with we commissioning, trial berthing and the first loading of pyrite ore	





commissioning, that bertning and the first loading of pyrite ofe to the **AIM Project** occurring imminently

Activities during 2Q 2023 focused on RC and diamond drilling focused on infill and extension drilling in Partolang and sterilisation drilling in southern Ortega

By the end of 2Q 2023, Merdeka achieved **5.8 million manhours** without LTI



### **TB Copper Project Overview**

TB Copper, located beneath Merdeka's operating Tujuh Bukit gold mine, is regarded as one of the world's largest pre-production copper projects. PFS demonstrates technical and economic viability

#### **Globally Significant Copper Gold Deposit**

Mineral resources: 1.7bt containing 8.1Mt Cu (0.47% grade) and 27.4Moz Au (0.50 g/t grade) Maiden ore reserve: 289.3Mt containing 1.6Mt Cu (0.56% grade) and 6.7Moz Au (0.65 g/t grade)

#### Large Scale, Long Life Underground Operation

Estimated initial mine life of **30 years** and cumulative production of **1.8Mt and 4.1Moz** of contained copper and gold in concentrate. Staged expansion of the mine from **4Mtpa to 24Mtpa**, peaking at 112ktpa and 366kozpa of contained copper and gold in concentrate

#### Phased Approach Optimising Pre-Production Capital Investment

The SLC mine will access higher-grade copper and gold in the upper portion of the orebody. This strategy; significantly reduces upfront pre-production capital, generates early cashflow and facilitates the development of the **24Mtpa** block cave operation

#### SLC Mine is an Economically Attractive Standalone Operation

The SLC mine will generate substantial free cash flow with a production profile of approximately 140ktpa of copper concentrate at a pre-production capital investment of **US\$757 million** 

#### **Low-Cost Mining Operation**

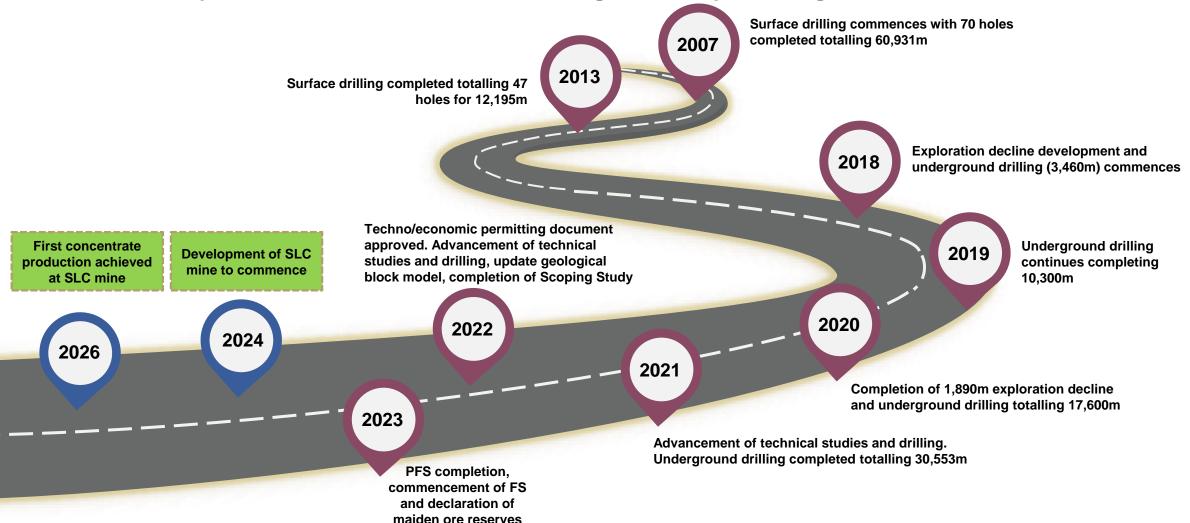
The combined SLC and block cave mines are anticipated to be a 1<sup>st</sup> quartile cost operation supported by a significant gold content





### **TB Copper Project Milestones**

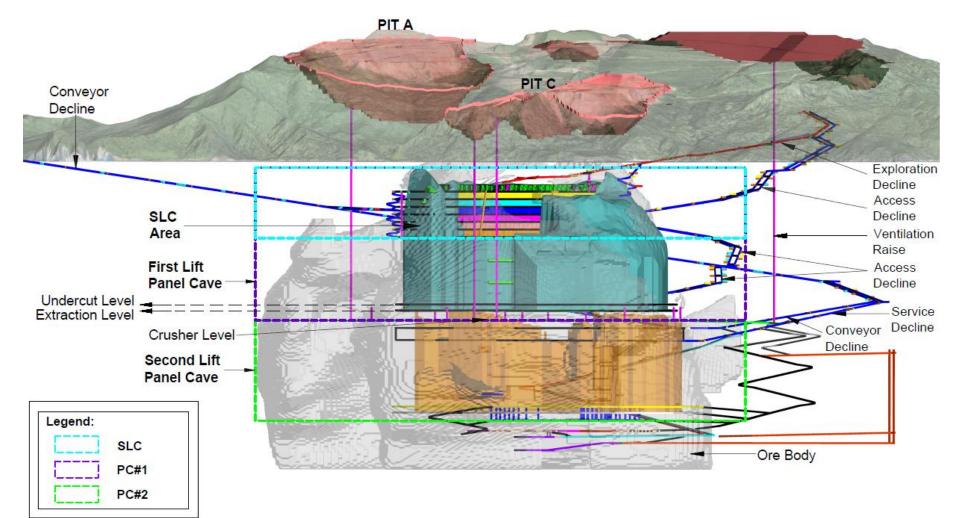
Since 2017, Merdeka has invested US\$167 million in TB Copper feasibility work, including the development of an 1,890 metres long exploration decline, over 150,000 metres of resource definition drilling, completion of extensive independent studies that include mine design, mineral processing and surface infrastructure





### **TB Copper Project Development Strategy**

The PFS demonstrates that TB Copper will be a globally significant underground mine extracting only 24% of the currently defined mineral resource





## **TB Copper Project PFS Highlights**

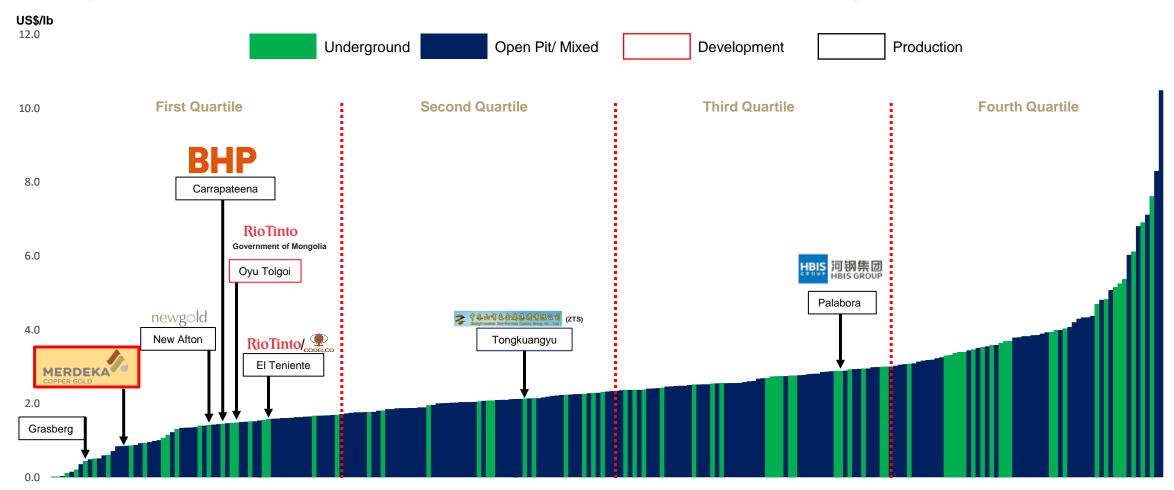
The PFS confirms attractive project economics for the development of a globally significant, long life, underground mine producing copper and gold

Large scale, long life underground operation	Modelled mine production of <b>404Mt</b> for the PFS SLC and BC mines deliver an initial <b>mine life of 30 years</b> and cumulative production of <b>1.8Mt and 4.1Moz</b> of contained copper and gold in concentrate
2 Attractive project economics	<ul> <li>LOM revenue of US\$34.0 billion</li> <li>LOM EBITDA of US\$21.3 billion</li> </ul>
<b>3</b> Low pre-production capex	US\$757 million with a two-year construction period to achieve first concentrate production
4 SLC mine	<b>Higher-grade</b> SLC mine providing early cashflow and <b>reducing the project funding requirements for the larger BC</b> . Estimated SLC production of approximately 140kt per annum of copper concentrate
5 Block cave mine	Staged expansion of the mine and processing facilities from <b>4Mtpa to 24Mtpa</b> peaking at an output <b>of 112kt and 366koz</b> of contained copper and gold in concentrate per annum
Competitive operating cost	Anticipated to be a <b>1<sup>st</sup> quartile cost operation</b> at <b>US\$1.0/Ib AISC LOM</b> , net of gold credits
7 Substantial upside	The Tujuh Bukit mining lease contains multiple mineralised porphyry deposits with the potential to <b>enhance the existing</b> <b>multi decade TB Copper mine life</b> – including a <b>second lift BC underneath the first BC</b>
8 Feasibility studies	Based on the strength of these PFS results, Merdeka is now <b>proceeding to Feasibility Studies</b> and <b>preparing for</b> <b>mine development</b> to commence in 2024



### **Competitive "Cycle-Proof" Cost Structure**

Tujuh Bukit Copper Project is anticipated to be a low-cost, long-life operation with a 1<sup>st</sup> quartile AISC of US\$1.0/lb net of gold credits – favourably positioned compared to peer SLC and block caving operations





### **Pani Gold Project**

Pani is expected to be a **long-life** and **low-cost** gold mine producing more than **450,000 ounces of gold** per annum upon achieving maximum throughput

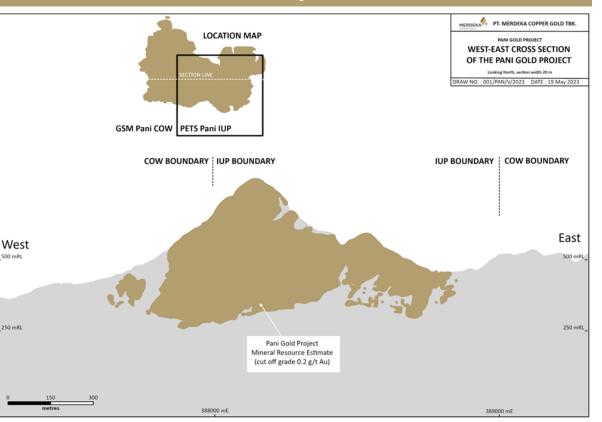
A combined mineral resource estimate was declared in February 2023 and **further upgraded** in May 2023, bringing the total indicated resources to **5.5Moz of gold**<sup>1</sup>

**Critical path pre-development activities**, including establishment of independent access roads, accommodation facilities and utilities, **are now complete**, shortening the construction period when a final investment decision is taken

A **120,000 metres drilling program** closes at the end of 2023, with the final stage well advanced, infilling areas of remaining inferred resources, targeting conversion to indicated resources

The **Feasibility Study** is advancing, and completion is targeted for **3Q 2023**, with an announcement expected in **4Q 2023** and a final investment decision shortly after

#### **Combined Pani Gold Project Schematic Section**



#### Combined mineral resources of 275.8Mt at 0.75 g/t Au containing 6.6Moz of gold<sup>1</sup>



### Pani Development Plan

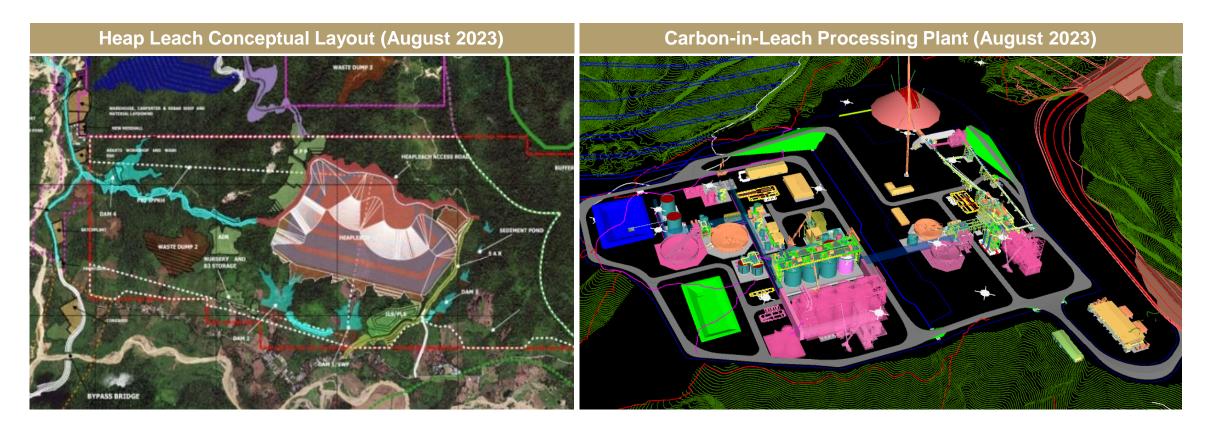
The Feasibility Study is assessing two processing methods for Pani, both well-understood and recognised as industry standard processing methods, for a combined nameplate capacity of 21Mtpa

Heap Leach	Heap leach metallurgical test work program continues to deliver positive results across the oxidised ore zone of the PETS deposit, reaffirming the amenability to heap leach processing	7Mtpa plant Low-capex starter project adopting mining and processing methods replicating Merdeka's Tujuh Bukit gold mine	Geotechnical investigations have expanded to optimised pit shells, tailings sites and proposed heap leach stacking locations, with no significant flaws identified	<b>140kozpa gold</b> Based on the work undertaken, Pani is expected to be in production before the end of 2025
Gravity with Carbon-in- Leach (CIL)	+92% Metallurgical test work program has demonstrated consistently high gold recoveries across all ore zones of the deposit	<b>14Mtpa plant</b> Flowsheets, plant layouts and feasibility level engineering have now been completed for this processing option	All study scope of works associated with permitting, processing, mining and tailings handling are advancing. PLN power supply agreement signed	+450kozpa gold Gravity with CIL processing facility to be added for a combined maximum throughput of 21Mtpa of ore



### **Pani Development Progress**

All study scope of works associated with permitting, processing, mining and tailings handling are well advanced. PLN grid power supply agreement signed





### Pani Development Progress (cont.)

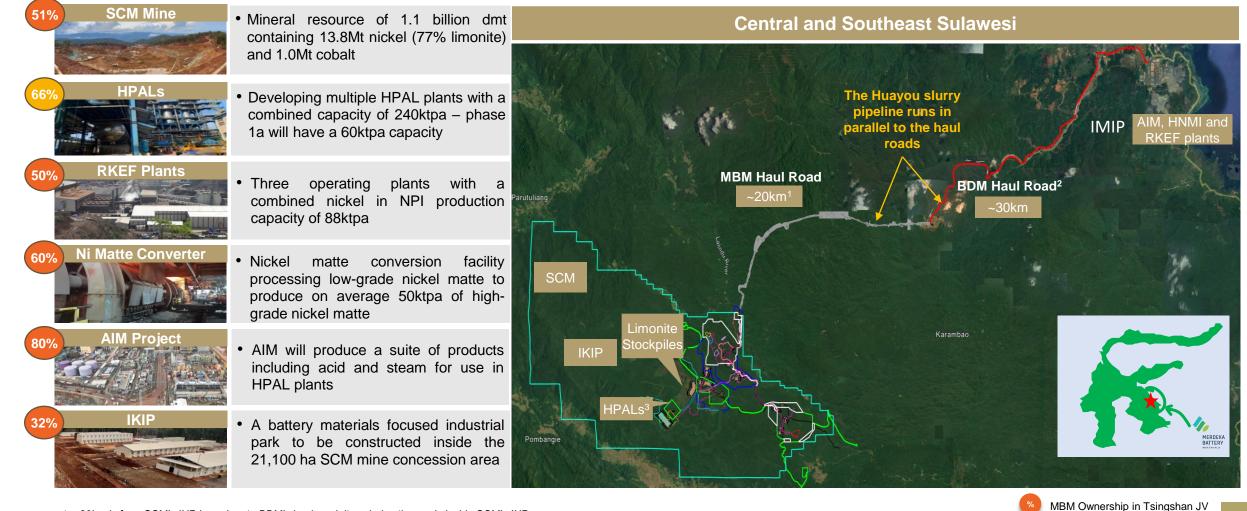
Pre-development construction activities continued across the site, with the development of an independent access road, establishment of accommodation facilities, and supporting infrastructure





### **Overview of MBM Assets**

#### MBM's assets are strategically located in central Sulawesi, Indonesia's battery materials hub



1. 20km is from SCM's IUP boundary to BDM's haul road; it excludes the roads inside SCM's IUP

2. MBM's haul road connects to BDM's haul road, and MBM has signed a long-term agreement to use BDM's haul road for transporting nickel ore

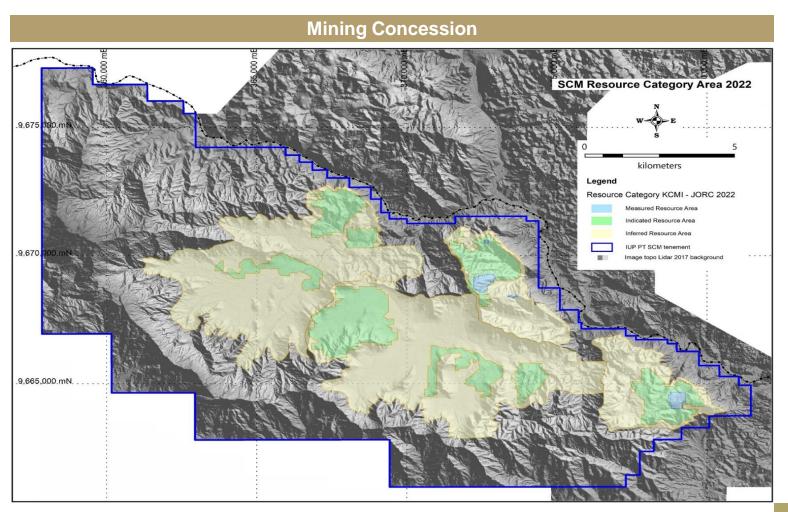
3. HPALs future location within IKIP

MBM ownership in CATL JV



#### One of the world's largest JORC nickel resources

SCM Mine Snapshot			
Resources <sup>1</sup>	1.1 billion dmt containing 13.8Mt of nickel and 1.0Mt of cobalt		
Reserves <sup>2</sup>	188 million dmt containing 2.4Mt of nickel and 0.2Mt of cobalt		
Ore Type	77% limonite / 23% saprolite		
Mine Life	Multi decade		
Production	~65Mtpa ore at full ramp-up		
Commercial Production	2023		
Location	~50km southwest of IMIP		
Concession Area	21,100 Ha		
Expiry	September 2057		



Mineral Resource: May 2022 JORC prepared by AMC Consultants Pty Ltd
 Ore Reserve: September 2022 JORC Technical Report of Ore Reserves Estimate of SCM Mine prepared by PT Aka Geosains Consulting with a data cut-off date on December 2018 and analytical data on May 2019



### **SCM Mine Haul Road**

The dedicated haul road upgrade linking the mine site to IMIP is now complete and saprolite ore haulage has commenced





### SCM Mine Haul Road (cont.)

In mid August, MBM loaded the first shipment of saprolite ore onto haulage trucks for delivery to IMIP RKEF plants





CSI and BSI plants have been fully operational since late 2019 and a larger 3<sup>rd</sup> plant, ZHN, completed commissioning during the quarter

#### **Operational Highlights**

- ZHN will more than double MBM's RKEF processing capacity from 38,000 to 88,000 tonnes per annum of nickel in NPI
- ZHN is expected to deliver 21,000 25,000 tonnes of nickel in NPI in 2H 2023 as it continues to ramp up to nameplate capacity of 50,000 tonnes per annum of nickel in NPI

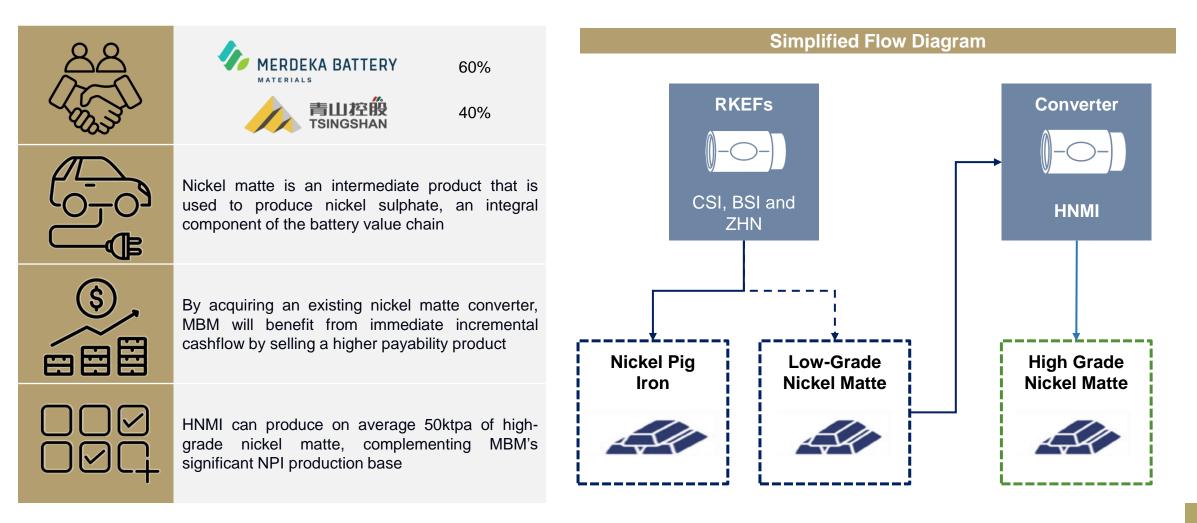


Commission Date	November 2019	February 2020	June 2023	
Nameplate Capacity (per annum)	19,000	19,000	50,000	
Location		IMIP		
Shareholders	50.1% MBM / 49.9% Tsingshan			
Product	Nickel Pig Iron			



### **Nickel Matte Overview**

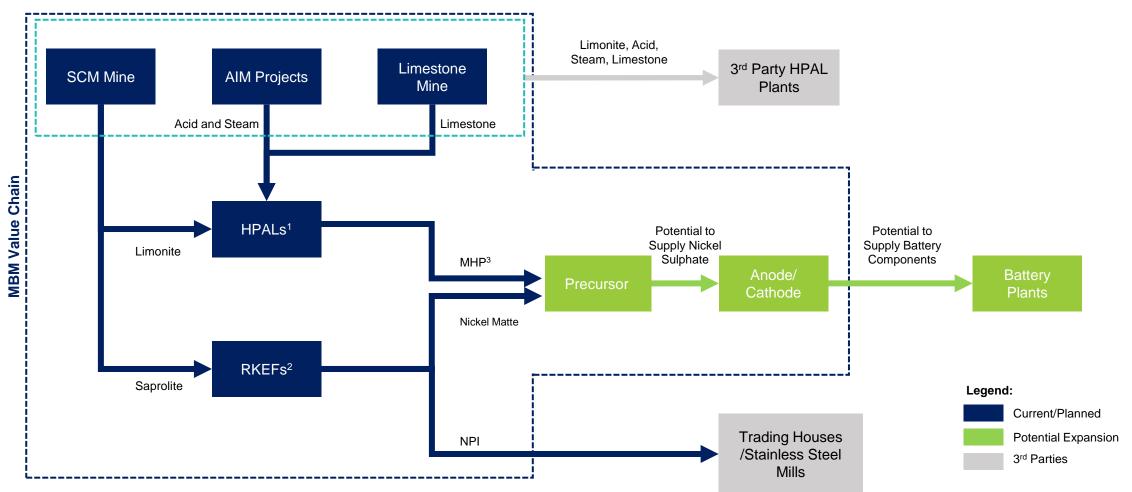
#### HNMI produces a high-grade nickel matte product enabling MBM to capture the additional margin to NPI





### **Capturing the Entire Battery Value Chain**

Merdeka Battery Materials is a vertically integrated operation with existing profitable nickel processing facilities and planned HPAL plants to capture future battery materials value chain



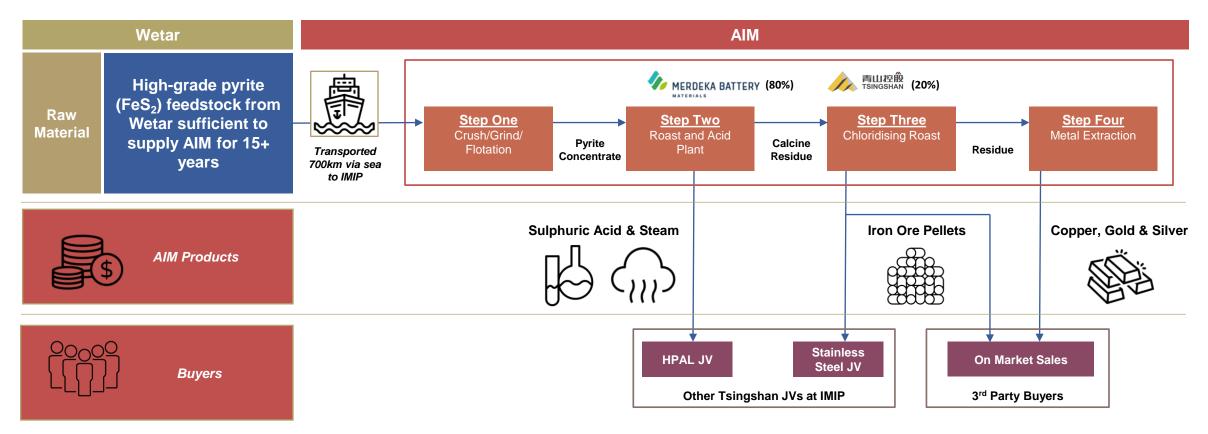
1. HPAL: High Pressure Acid Leach

2. RKEF: Rotary Kiln-Electric Furnace

3. MHP: Mixed Hydroxide Precipitate



AIM is a significant growth opportunity for MBMA and is well positioned to benefit from the growth in acid demand expected as additional HPAL plants are constructed at IMIP and across Indonesia



Construction activities continuing and is on track to deliver first acid production in 2H 2023



AIM will begin operations by 2H 2023 and ramp up towards nameplate acid production of 1.2Mtpa. Construction is nearing completion with a shift to operational readiness





## **Commitment to Sustainability**

#### Merdeka ESG Mission

Select Merdeka ESG Initiatives

#### Select Merdeka ESG Achievements

"Our Mission is ... to be a leader in safety, environmental protection & corporate social responsibility ... towards achieving our Vision to be a global leader in the Indonesian mining and metals industry."



- TCFD (Task Force on Climate Related Financial Disclosures) assessment across Merdeka's subsidiaries
- Human Rights Policy completion and socialisation
- ESG Gap Analysis
- Greenhouse Gas Emission
   independent baseline
   assessment for SCM to enable TCFD
- GHG Emission reduction roadmap
- Updating OHS & Environment
   Policies with 2022 signatories and to
   include new operating entities
- Employee Health: Online medical check-up and scheduling database launched and historical data updated
- Socialisation program for the Code of Conduct & Whistleblowing Policy



1. MSCI ESG rating upgraded 27 October 2022

2. Morningstar Sustainalytics rating upgraded 20 January 2023



### **GHG Emissions Reduction Roadmap**



2030 <sup>50%</sup> Reduction in GHG Emissions Intensity for Copper and Gold<sup>®</sup> 29% Reduction in GHG Emissions Intensity for Acid<sup>®</sup>

**STRATEGIES** 

#### BASELINE

2021

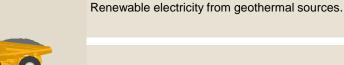
0.6 tCO<sub>2</sub>e per oz Au

**COPPER** 3.6 tCO<sub>2</sub>e per ton Cu



**0.1 tCO<sub>2</sub>e per ton Acid** (forecast based on first production)

> MDKA is projected to produce 1.3 MtCO2e emissions in 2030, while focusing efforts to reduce 29% emissions intensity<sup>a</sup> by the same year.



Energy Substitution Solar panel installation, micro hydro.

**Energy Substitution** 

#### **Energy Efficiency**

Improving energy efficiency through technology and innovations.

#### Land Rehabilitation

Mined land reclamation, watershed rehabilitation program.

#### Offsetting

Land compensation, mangrove restoration, afforestation.







Innovative ideas to improve energy efficiencies and reduce GHG emissions. Mobile equipment oil lifetime extended using Kidney Loop filtration and utilising waste oil in blasting activities.

- Land rehabilitation is a regulatory requirement for Merdeka mine operations. Local tree species are planted to offset biodiversity.
- Initiate and monitor mangrove restoration and land compensation programs to increase GHG offset year-onyear.

Performance against targets to be reviewed annually and to include further GHG reduction opportunities From 2030 onwards, the use of **renewable energy and electric fleets** are forecast to be the main contributors to achieve net zero by 2050

2050

Net Zero

**Emissions** 

to well below 2°C and pursuing efforts to limit the temperature increase to 1.5°C above preindustrial levels d

ZERO

Achieving net

zero by 2050 as a contribution

towards holding the increase in the global

average

temperature

The copper & gold GHG emission intensity has been revised to a stretch target of 50% from the original 2021 statement of 29% (Scope 1 and Scope 2)

- b. Acid emission intensity target of 29% by 2030 remains the same
- c. PLN = Perusahaan Listrik Negara (National Electric Company)
- d. Article 2(a), Paris Agreement, 2015



#### Summary

Commitment to sustainability, safety, environmental protection and corporate social responsibility

Strong Indonesian shareholder support with a proven track record of value creation Multiple transformational growth projects in place to support the clean energy transition

Established and proven nickel, gold and copper production capability



For more information, please contact or visit



investor.relations@merdekacoppergold.com



www.merdekacoppergold.com



# Competent Person's Statements

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### Merdeka Competent Person's Statement

The information in this report which relates to Exploration Activities and Exploration Results is based on, and fairly represents, information compiled by Mr. Zach Casley, BSc (Hons). Mr. Casley is full-time employee of PT Merdeka Copper Gold Tbk. Mr. Casley is a certified Competent Person Indonesia (#CPI-199), a Member of the Indonesian Geologists Association (ID: 7083B), a Member of a Masyarakat Geologi Ekonomi Indonesia (ID: B-1173), a Fellow of the Australian Institute of Mining and Metallurgy (ID: 112745), and a Member of the Australian Institute of Geoscientists (ID: 1451). Mr. Casley has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2017 Kode KCMI for Reporting of Exploration Results, Mineral Resources and Mineral Reserves, and the 2012 Edition of the "Australiasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Casley consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.



### **SCM Mine Competent Person's Statement**

The information in this report that relates to Mineral Resources is based on information compiled by Mr. Mick Elias and Mr. Dmitry Pertel. Mr. Elias is a part-time employee of CSA Global Pty Ltd and Mr. Pertel is a full-time employee of AMC. Mr. Elias is a Fellow of the Australian Institute of Mining and Metallurgy, and a CPI (Competent Person Indonesia; CPI-182; Nikel PHE-ESM) of IAGI (Indonesian Association of Geologists); Mr. Pertel is a Member of the Australian Institute of Geoscientists. Both have sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the Australiasian Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code). Subject to review and modification (as required) of any relevant public reports prior to release, Mr. Elias and Mr. Pertel will provide Competent Person consents for disclosure of information from this report if it adequately matches the form and context in which it appears in this report.