

## **BUILDING INDONESIA'S NEXT COPPER MINE**



**OCTOBER 2019** 

## **Forward Looking Statement**



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## **Forward Looking Statement**



The documented geometries of mineralised inventory or exploration targets are not intended to be a proxy, or used as a basis, for mineral resource calculations. It is not certain if additional exploration will result in the delineation of Mineral Resources in, or near, these target zones. Resource and reserve calculations that are NI 43-101 compliant have yet to be determined for the mineralised systems in the Company's projects. This does not imply that the mineralisation contains economic Mineral Resources but merely highlights the relationships of the mineralised zones identified

#### **Qualified Person**

Duncan Hackman (B. App. Sc., MSc., MAIG) of Hackman & Associates Pty Ltd (Australia) is the independent Qualified Person within the meaning of JORC 2012 for the purposes of Mineral Resource estimates contained within this Presentation. John Wyche from Australian Mine Design and Development Pty Ltd. Is the independent qualified person for the purpose of the BKM Ore Reserve Statement. Mr Wyche is a Member of the Australasian Institute of Mining and Metallurgy. He has 32 years of experience with the BKM style of mineralisation and type of mining. He has consented to be named as the Competent Person for the Ore Reserves.

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## **Asiamet – Overview**



Asiamet Resources Limited (AIM:ARS) a company focused on development and exploration of high quality, large scale, copper-gold and base-metals deposits

# ESTABLISHED PORTFOLIO

- Multi Asset Company
- BKM Copper SX-EW project – Feasibility Study with robust economics
- Beutong large copper gold porphyry
- Resource inventory of over 2.4Mt copper,
   1.6Moz gold and 20Moz silver

# COMPELLING VALUE

- Large portfolio of advanced copper development projects with district play targets
- Large Resources inventory which remains open at depth and strike (all projects)
- Undervalued on any conventional valuation method

### **CORPORATE**

- Internationally recognised operating team with proven track record of building mines
- Long-term patient shareholders
- Management with significant ownership position

## **Corporate Overview**

### Experienced team with proven track record

# **ASIAMET** RESOURCES

#### **Board of Directors**



**Tony Manini Executive Chairman** Geologist, +30 years, Rio Tinto, Oxiana/OZ Minerals, Tigers Realm, EMR Capital. Multiple discoveries and mine developments in Asia, Australia



**Peter Bird** Chief Executive Officer Geologist, +30 years, Normandy, Newcrest, Merrill Lynch, Heemskirk. Mining Analyst, Mining Executive, Project financing and development



**Dominic Heaton** Non-Executive Director Mining executive with +27 years of experience with Masan Resources, Aurora Gold, Oxiana, OZ Minerals and MMG



Feng (Bruce) Sheng Non-Executive Director Chairman Asipac Group, Vice Chairman Australian China Business Council, Executive Chairman of ASX listed Terramin Australia Ltd.



**Peter Pollard** Non-Executive Director 20+ years, consulting economic geologist. International expert in porphyry Cu-Au deposits



**Faldi Ismail** Non-Executive Director Corporate advisor specialising in restructure and recapitalisation of ASX-listed companies Director several ASX companies

### **Executive Management**

## **Corporate Overview**



1,095.9m

Shares on Issue

£42m

Market Cap. 3.85p

## **Key Shareholders**

JP Morgan Asset Management
Global Natural Resources Fund
Asipac Group
6.47%
Board and Management
4.30%
Namarong Investments
3.71%

£2.1m

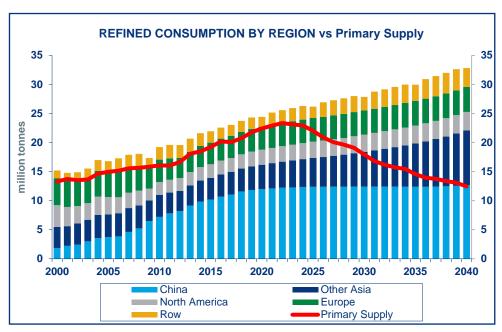
Cash (Dec 2018)

£40m

**Enterprise Value** 

## **Why Copper? Solid Fundamentals**





CAPITAL INVESTMENT REQUIRED TO MEET FORECAST CONSUMPTION IN 2027 (US\$Bn) 160 140 120 100 104 80 40 20 5 -20 Gold Nickel Bauxite Coppei Iron Ore Zinc

■ Committed ■ Additional Required

Source: JPM and Wood Mackenzie

Source: JPM and Wood Mackenzie

- The global copper market is set to register a sizeable deficit as global mine supply remains constrained (Declining grades continued project deferrals, increased permitting timelines, limited development capex availability)
- Further demand growth upside forecast through Electric vehicles, renewable energy and related infrastructure investment
- Future base demand will not be met without significant investment these investments take time to come to market

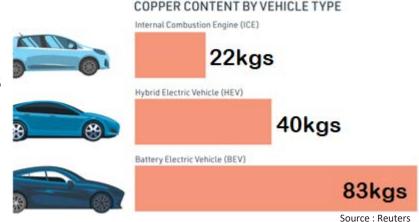
Asiamet's portfolio is well positioned to take advantage of forecast supply deficit

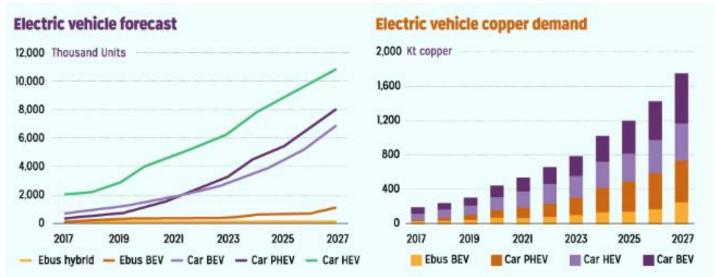
## **Copper Driving Force of Clean Energy**



### Copper connects and delivers clean energy to the world

- Less than 1% of the worlds vehicles are electric, by 2030 Electric Vehicles are expected to make up 11% of new car sales
- With the rise in Electric Vehicles as will the need for copper





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## **Key Projects – Indonesia**





### KSK Contract of Work (100%)

- BKM Copper Deposit Feasibility Study Completed, Heap Leach SX-EW operation
- Long-term tenure 30yrs post commencement of mining with potential for 2 X 10yr extensions
- Environmental permit granted;
   Indonesian Feasibility Study approved;
   Forestry permit process underway
- BKZ Polymetallic Project Maiden Resource (May 2018). Resource open in multiple directions

- ~400km² in highly prospective
   Kalimantan volcanic arc 15 key Cu
   and Au prospects identified in
   CoW
- Kalimantan well positioned with a long history of mining
- Long term investment in community development programs

### Beutong IUP (80%)

- JORC Compliant Resources of 2.4Mt (5.3Blb) Cu, 2.1Moz Au, 20.9Moz Ag (100% basis)
- Indonesian Feasibility Study completed
- IUP Production-Operation Licence
   20yr tenure with 2 X 10yr extensions
- Open laterally and at depth, strong mineralisation at base of drilling

## **BKM Copper Project**

Central Kalimantan





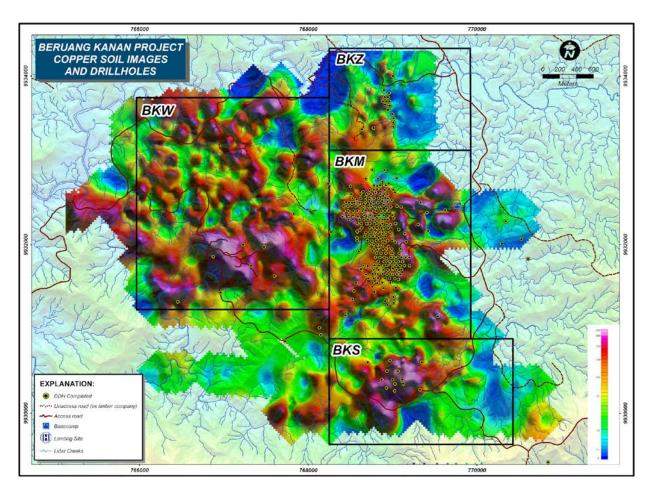
## **KSK Project – BKM Copper Deposit**





- BKM Feasibility Study completed Q2 2019
- Initial Ore Reserves JORC (2012)
- Numerous additional high probability targets outlined by surface sampling, geochemistry and geophysics. All within close proximity of BKM proposed infrastructure and remain to be fully evaluated
- Four key target areas have been identified surrounding BKM to add mine life
- Contract of work highly prospective with further 15 targets. Drilling outside BKM is very limited

ORE RESERVES JORC 2012	Mt Cu	% Cu	Copper #
Proved Ore Reserves	21.1Mt	0.6%	302Mlbs (137kt)
Probable Ore Reserves	30.4Mt	0.5%	365.9Mlbs (166kt)
Total Proved and Probable Ore Reserves	51.1Mt	0.6%	668Mlbs (303kt)



BK District contains a well-defined copper Resource at BKM, and numerous other copper and polymetallic projects and prospects

<sup>#</sup> contained copper

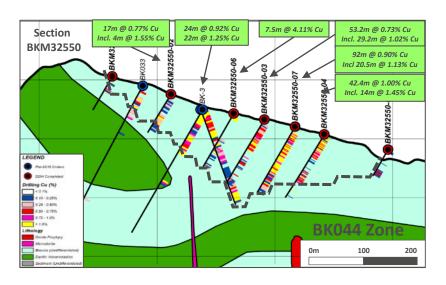
## **BKM Copper Deposit**

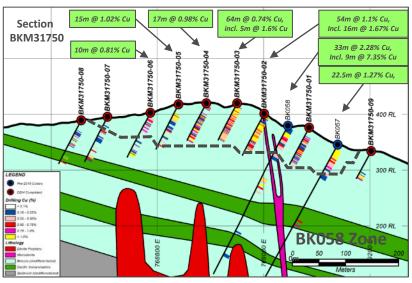
## Strong Technical Fundamentals

**ASIAMET** RESOURCES

- At surface and outcropping, locally up to 150m thick
- Excellent continuity of copper mineralisation
- Two discrete higher grade areas, BK44 and BK58
   Zones
- Copper minerals amenable to heap leaching SX-EW to produce cathode for direct shipping to end users
- Host rocks suitable for heap construction and leaching – competent, low acid consuming

Hole ID	From (m)	To (m)	Length (m)	Cu (%)
BKM32200-03	1.6	48	46.4	1.69
BKM32350-02	20	55	35	1.73
Including	20	31	11	3.49
BKM32450-01	4.7	18.7	14	2.02
Including	4.7	10.7	6	3.71
BKM32450-05	12	29	17	1.61
Including	20	27	7	2.06
BKM32600-05	34.2	61	26.9	2.34
Including	44	60	16	3.02
BK058-01	11.7	44.7	33	2.28
Including	11.7	20.7	9	7.35
BKM31650-03	34	66	32	1.34
Including	40	56	16	2.18
BKM31750-03	8	72	64	0.74
BKM31850-02	6	17	11	2.96





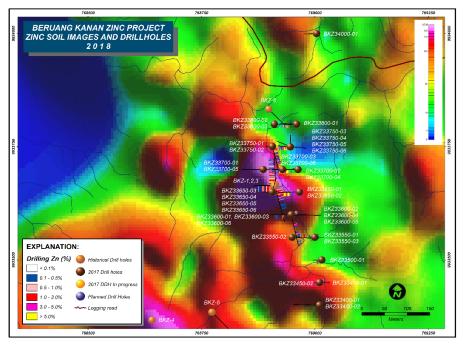
## **KSK Project – District Scale Potential**

BKZ – High Quality Stand Alone Base Metal Target

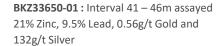


- BKZ Project, outcropping massive sulphide, polymetallic mineralisation, underlain by copper-silver mineralisation
- Polymetallic mineralisation confirmed over a strike length of 225m, is up to 110m in east-west dimension and has a variable true thickness of up to 40m
- Upper Polymetallic Zone Inferred Mineral Resource comprises:
  - High Grade Domain 750,000 tonnes at 8.0% Zinc, 3.4% Lead, 50g/t Silver and 0.35g/t Gold containing 132Mlbs zinc, 57Mlbs lead, 1.2Moz silver and 8,400oz gold at 4% Zn cut-off grade
  - Low Grade Domain 590,000 tonnes at 1.6% Zinc, 0.5% Lead, 13g/t Silver and 0.15g/t Gold containing 20 Mlbs zinc, 7Mlbs lead, 247Koz silver and 2,800oz gold at 1% Zn cut-off grade
- Lower Copper Zone Inferred Mineral Resource comprises:
  - High Grade Domain 1.1M tonnes at 1.1% Copper and 13g/t Silver - containing 26Mlbs copper and 460,000 ounces silver at a 0.5% copper cut-off grade

Note; The Statement of Mineral Resources completed by Hackman & Associates is reported in accordance with the requirements of the 2012 JORC Code.









BKZ33600-02: Interval 71 - 76m assayed 2.9% Copper and 18g/t Silver

## **Beutong Project**

Aceh, Sumatra





## **Beutong Project – Infrastructure Advantage**

Road, Power, Port Infrastructure nearby



- Located only 60km inland and north-east of the township of Meulaboh, Aceh
- Access to project site is via partially sealed roads from the regional towns of Meulaboh and Takengon
- Meulaboh population 50,000. Commercial airport
- New seaport approximately 5km southeast of Meulaboh
- 2 x 110MW coal-fired power station has been built approximately 5km south-east of Meulaboh, with excess capacity





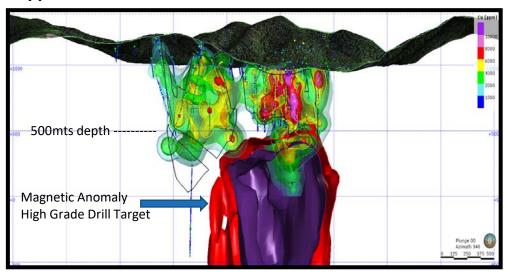
## **Beutong Project – Exciting Cu-Au Discovery**

Quality Deposit with Significant Upside Potential

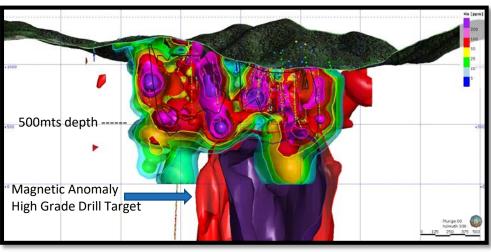


- Large, high quality porphyry Cu-Au-Mo deposit
- Measured + Indicated Resources (100%)
  - 1.2Blbs Cu, 0.36Moz Au, 5.55Moz Ag, 9Mlbs Mo
- Inferred Resources (100%)
  - 4.1Blbs Cu, 1.75Moz Au, 15.3Moz Ag, 52Mlbs Mo
- High-grade porphyry copper mineralisation:
  - BEU0500-01 : 445.0m @ 0.54% Cu, 0.17g/t Au from 7m
  - BEU0900-08: 456.0m @ 0.93% Cu, 0.15g/t Au from 10m
  - BEU0800-01 : 215.8m @ 1.20% Cu, 0.20g/t Au from 4.8m
  - BEU0800-02 : 320.4m @ 1.11% Cu, 0.19g/t Au from 6.6m
  - BEU0700-03: 384.2m @ 0.68% Cu, 0.21g/t Au from 71.5m
- Deposit remains open to east, west and depth, with an interpreted high-grade core (chalcopyrite – bornite) at depth
- Strongly mineralised Cu-Au skarn 200m north of Beutong East remain open. Drill results include:
  - BC007-01: 33.0m @ 2.31% Cu, 1.23g/t Au from 47.0m
  - BC017-03: 35.8m @ 1.19% Cu, 1.26g/t Au from 84.0m
- Ground magnetic models highlight prominent magnetic body immediately beneath current drilling – potential for higher grade core identified at depth similar to giant high-grade porphyry copper-gold deposits such as Newcrest's Wafi-Golpu (PNG) and Solgold's Cascabel (Equador)

### **Copper Model**



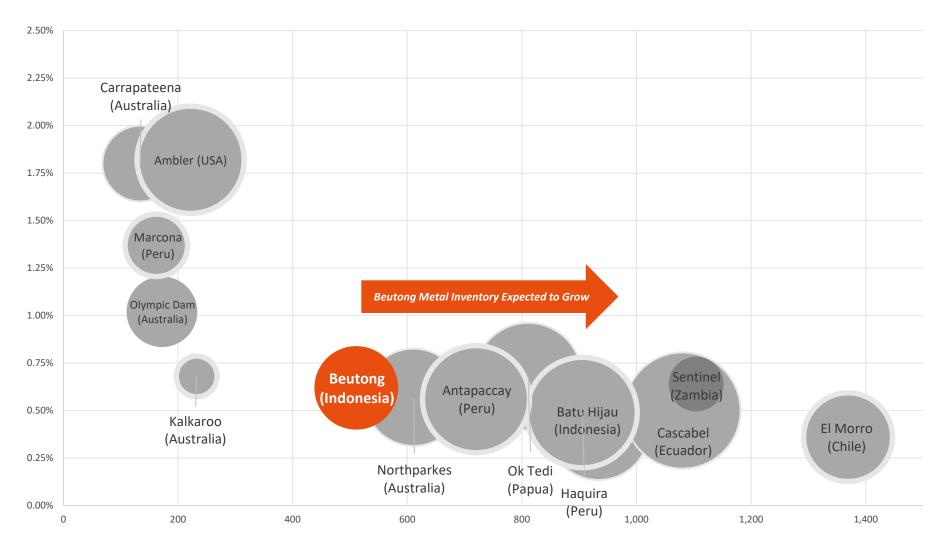
### Molybdenum Model



## **Beutong**

## Large, High Quality, Globally Significant





Source: Referenced reports, internal

Note: Selected based on contained copper (Measured & Indicated Resources, inclusive of Mineral Reserves, and Inferred Resources)

## **BKM Copper Project**

Central Kalimantan





## **BKM – Feasibility Study Outcomes**



### **PRODUCTION**

Up to 25kt Copper Cathode Life of Mine 172.6kt NPV<sub>8</sub> / IRR <sup>1</sup>

\$124.8 million / 19.1%

### **INITIAL CAPEX**<sup>2</sup>

\$223.4 million

### **FINANCIALS**

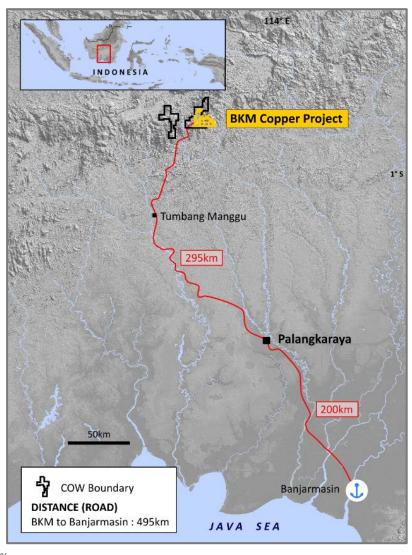
Revenue: \$1.27 billion EBITDA: \$563.3 million

# LOW CAPITAL INTENSITY<sup>3</sup>

\$7,680/t

C1<sup>4</sup> / AISC<sup>4</sup>

1.65 / 1.78



<sup>1</sup> After corporate income tax and includes closure costs of \$33 million, NPV g excluding closure costs is \$133 million / IRR 19.5%

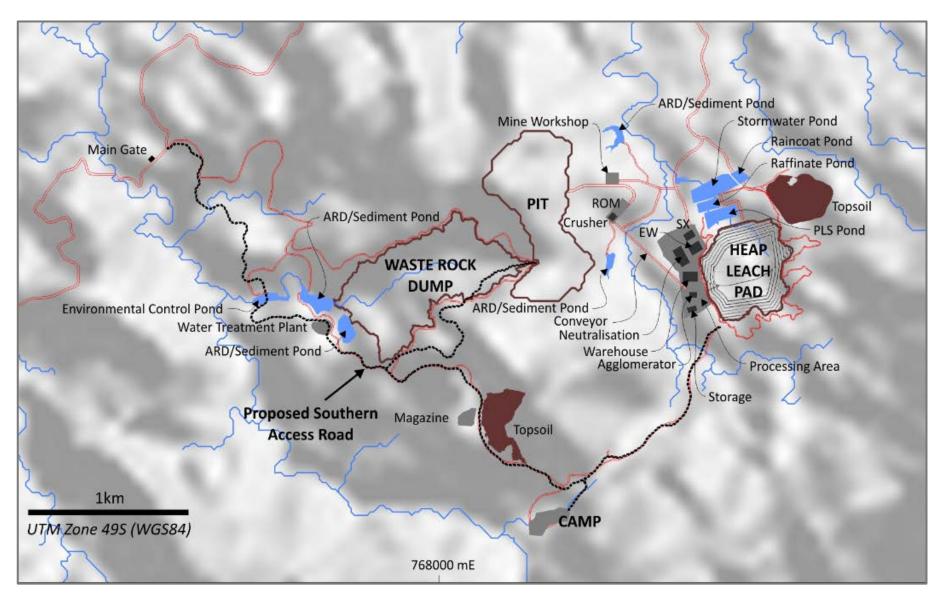
<sup>2</sup> Includes contingency of \$31.4 million and excludes Stage 2 expansion of heap leach of \$21.3 million

<sup>3</sup> Capital Intensity initial capital expenditure (excluding contingency)

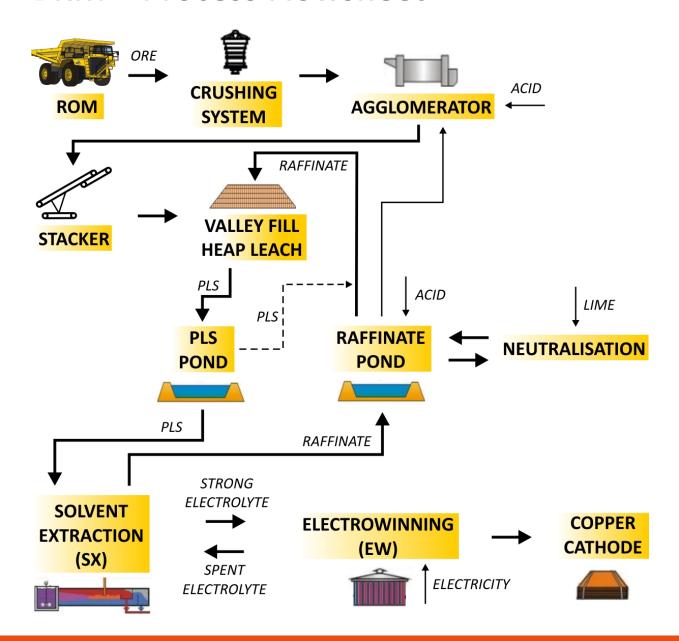
<sup>4</sup> US\$ per pound of copper produced. AISC = C1 + Royalties and Sustaining Capital

## **BKM – Site Layout**





## **BKM – Process Flowsheet**





### **Conventional Process Design**

**Process Route involves:** 

- 1. Crushing & grinding
- 2. Agglomeration
- 3. Heap-leach
- 4. Pls pond
- Solvent Extraction/Electrowinning (SX-EW)
- Producing Grade A Copper Cathode

No Long-lead items – Capital Equipment is readily available

## **Capital Expenditure**

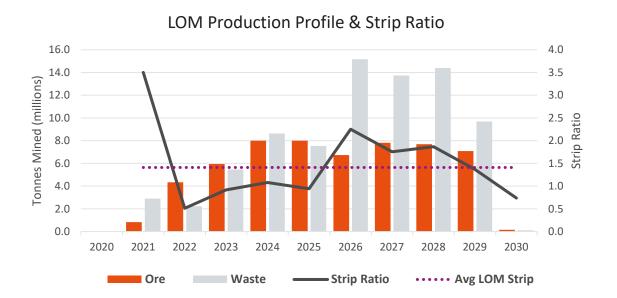


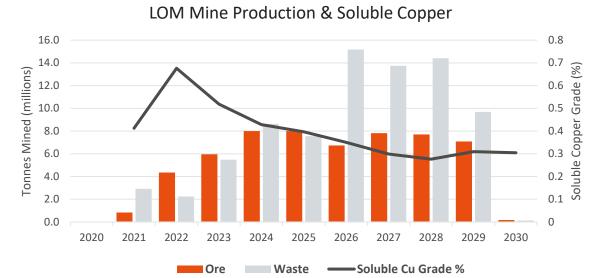
Plant Area	Capital Estimate \$M
Mining Infrastructure	1.9
Crushing, Agglomeration and Stacking	31.4
Heap Leach	36.8
SX-EW (incl Neutralisation)	31.7
Process Area Services and Utilities	7.7
On Site Infrastructure and Bulk Earthworks	43.9
Off Site Infrastructure	6.9
Sub-Total Direct Costs	160.3
Construction Indirect Costs	12.1
Spares and First Fills	7.5
Engineering, Project Management, Construction Management and Commissioning Services	9.6
Owners Costs	2.6
Total Capital Estimate (excluding Contingency)	192.0
Contingency	31.4
Total Capital Estimate	223.4

Capital cost estimate excludes escalation and mine closure costs – included in the financial model. In addition to the initial capital costs, a Stage 2 expansion of the Heap Leach is estimated to cost \$21.3 Million (including indirect costs and contingency).

## **BKM – Feasibility Study Dashboard**



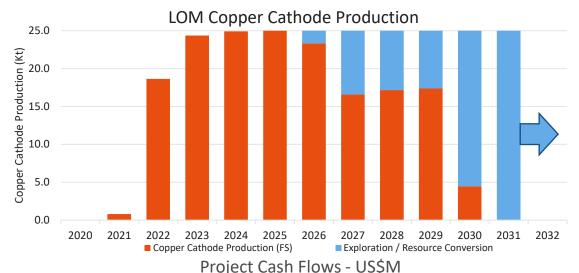


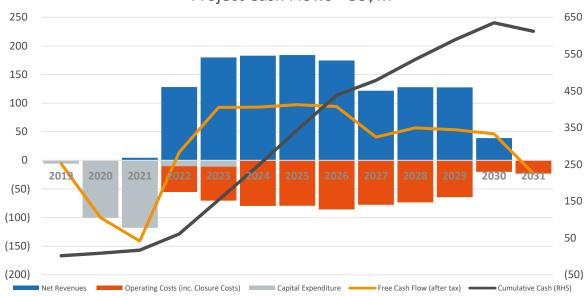


- LOM Strip Ratio 1.4:1
- Strip Ratio for first 5 years 0.99:1
- Low strip and high soluble copper grades allow for strong cash flow generation in early years
- After ramp-up ore mined is consistent over LOM
- Strong potential to convert Inferred Resources to extend mine life

## **BKM – Feasibility Study Dashboard**

### **Production and Cashflow**







- Initial mine life 9 years with production of LME Grade A Copper Cathode – up to 25kt pa
- Average production of 19.5kt
- Revenues of \$1.27 billion over LOM
- Average free cash flow (after tax) over 2023-2026 of \$94 million, peaking at \$97 million in 2025
- Value uplift and life extension through exploration will enhance an already robust project
- Conversion of Inferred Resources and near mine exploration will extend mine life

## C1 and AISC



Site Operating Costs	US\$ Million	Cost US\$/lb	Proportion %
Mining	270.2	0.71	39.8
Processing	255.5	0.67	37.7
Site Services	91.0	0.24	13.4
General and Administration	10.5	0.03	1.6
LOM Cost / C1 \$/lb	627.2	1.65	92.5
Royalties	50.8	0.13	7.5
Sustaining Capex*	-	-	-
AISC / \$/Ib	678.0	1.78	100.0

Up to 25kt of LME Grade A copper cathode

<sup>\*</sup> Ongoing maintenance activities replace sustaining capex.

## **BKM – Value Enhancements**

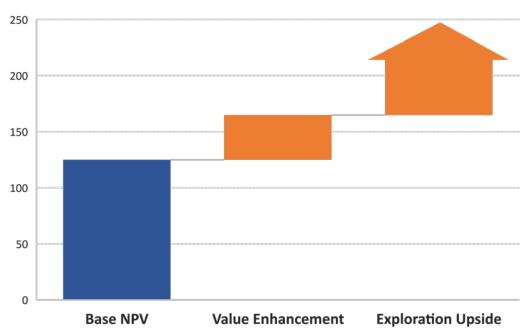
Risk Adjusted Initiatives



- Pre-treatment of the less-leachable heap leach ore types (chalcopyrite) using Albion Leaching technology (~\$20M)
- Improved mineralisation geological controls (~\$5M)
- An electricity supply change from LNG to coal (~\$4M)
- Further refining the methodology of ore block classification (~\$3.5M)
- Reducing construction earthworks costs by sourcing locally and delivering synergies (~\$3M); and
- A review of near mine exploration for targets proximal (less than 3kms) to the BKM Resource

### **Value Enhancements \$ Million**

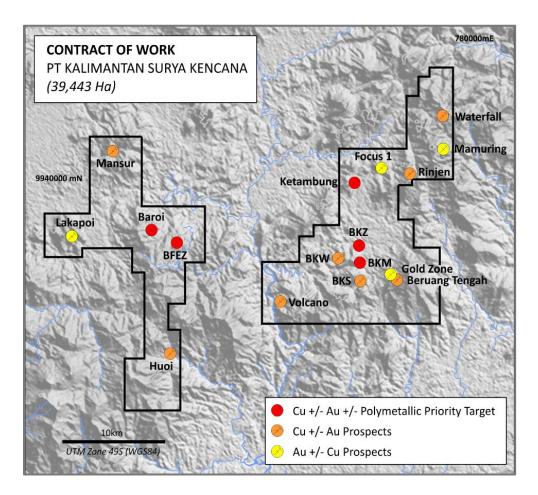
#### **VALUE ENHANCEMENT OPPORTUNITIES**



## **BKM – Value Enhancements**

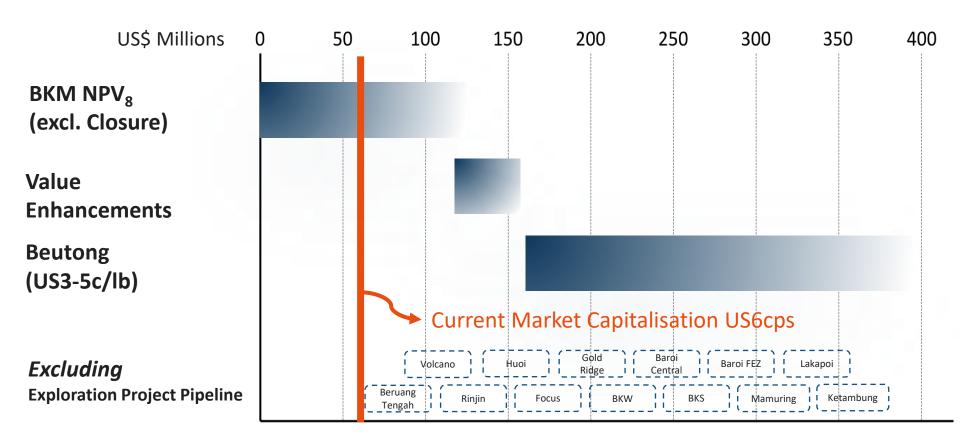


- Near mine exploration for targets proximal (less than 3kms) to the BKM Resource that have the potential to add significant value. The high priority targets to be investigated immediately include:
  - BKM 'link zone target' the immediate zone between BKM and BKZ
  - Testing of IP chargeability highs approximately 800m to the north-west if BKM
  - BKM depth extensions through deeper drilling to follow up IP chargeability at depth; and
  - BK-South near surface oxide targets, maybe amenable to SX-EW process and augment the current mine life at BKM



## **Valuation – Total Portfolio**





- BKM Feasibility Study (US11.9cps) + Value Enhancements (US3.3cps), excluding Beutong
- Portfolio remains significantly undervalued
- A lot of value is yet to be delivered as the BKM project gets de-risked further
- A unique portfolio with a development ready project, advanced exploration and a true project pipeline

## **Next Steps**



A multi-faceted approach including:

### **KSK**

- Assessing value enhancement opportunities and incorporate where applicable;
- Advancing near mine exploration targets to add mine life and increase value;
- Progressing all remaining permits required for mine construction and operation;
- Commencing detailed engineering and design works;
- Advancing project financing
  - Finalising strategic partner discussions;
  - Traditional project financing with banks and other supportive institutional lenders;
  - Offtake and equipment lease financing, EPCM financiers, export credit lenders; and
  - Other non-restrictive financing arrangements.

### **Beutong**

Further drilling and metallurgical test work

## Why Invest in Asiamet Resources?









### **Quality Assets & People**

- Focussed team with a proven track record - Indonesia, discovery, mine development
- Large and growing copper resource base, solid grade, significant upside
- KSK CoW has a significant project pipeline and provides substantial value for the Company
- Beutong's Resources confirm a large tonnage copper development opportunity in close proximity to key infrastructure
- Assets with potential to grow a +US\$1bn company
- Strong government and community relationships and support

#### **Value**

- Copper market is projected to enter a supply constrained phase during early 2020's
- Outlook for copper prices remains strong
- Asiamet trading at a deep discount to comparable assets by most historical market metrics

### **Timing**

- Rare near-term developmentready copper project
- Outlook for copper price recovery is closely aligned to Asiamet development timelines
- Strong news flow expected from value enhancement process and ongoing exploration
- Further drilling and metallurgical test work at Beutong
- Re-rating anticipated as key milestones are achieved and Company transitions into a producer

### **Contact Information**



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## **Appendix**



## **Regulatory Framework**

### Summary



### **KSK Project**

- Mineral and coal mining activities are governed under the Law on Mineral and Coal Mining No. 4 of 2009 (the "Mining Law"). This law replaced the previous Mining Law 11/1967, which provided the framework for all of Indonesia's pre-2009 mining concessions including all of the existing Contracts of Work ("CoW") and Coal contracts of Work ("CCoW")
- Asiamet completed CoW amendment with the Government of Indonesia ("GoI") on 26 March 2018 and secured long term tenure for the BKM copper development. The key features are as highlighted below:
  - Long term mining secured for up to 50 years
  - KSK has 39,443 hectares under the KSK CoW
  - Fiscal framework remains globally competitive
    - Tax Rate, currently 25%
    - Copper royalty rate 4%, gold 3.75% and silver 3.25%
    - KSK will also receive a tax holiday and/or tax reduction for imported capital goods
  - No divestment required until after the 10<sup>th</sup> year of production
  - The amended CoW requires the Company to work towards and assist the GOI in supporting the policy of
    establishing metals processing facilities in Indonesia. Asiamet plans to produce LME Grade (99.99%) copper
    cathode at BKM and as such will satisfy the criteria
  - The amended CoW currently contemplates the priority use of local labour, products and registered mining service companies. Indonesian nationals currently comprise 98 % of the KSK workforce. KSK has strong community engagement and will continue to support the development of local communities in the areas in which it operates

## **Regulatory Framework**

### *Summary*



### **Beutong IUP**

- The Beutong project is held under a Mining Business License (Izin Usaha Pertambangan "IUP"). Asiamet owns 80% of the Beutong Project
- The IUP is granted for two separate phases of mining activities:
  - Exploration IUP- for performance of general surveys, exploration and feasibility studies, 8-years
  - Operation production IUP- for performing construction, mining, processing, refining, hauling and selling within the relevant mining area, 20 years, subject to extensions of 10 years x 2
- Foreign shareholders must after five years of production divest their shares in stages, such that by the tenth year of production, foreign shareholders shall have a maximum 49% shareholding. Up to 20% of the shares of a PMA OP-IUP publicly listed on the Indonesia Stock Exchange is treated as satisfying the obligation to divest up to 20% to Indonesian parties

## **BKM - Mineral Resources**



Measured Mineral Resources (JORC, 2012)									
Reporting Cut-off	Tonnes	Cu Grade	<b>Contained Copper</b>	<b>Contained Copper</b>					
Cu %	M	%	kt	Mlbs					
0.2	20.6	0.7	148.5	327.3					
0.5	14.9	0.8	124.9	275.3					
0.7	8.6	1.0	87.6	193.0					
Indicated Mineral Resources (JORC, 2012)									
Reporting Cut-off	Tonnes	Cu Grade	<b>Contained Copper</b>	<b>Contained Copper</b>					
Cu %	M	%	kt	Mlbs					
0.2	34.1	0.6	212.6	468.8					
0.5	21.4	0.8	161.3	355.6					
0.7	9.5	1.0	90.6	199.7					
Inferred Mineral Resources (JORC, 2012)									
	Interred N	lineral Resources (JC	IRC, 2012)						
Reporting Cut-off	Interred M Tonnes	lineral Resources (JC Cu Grade	Contained Copper	Contained Copper					
Reporting Cut-off Cu %				Contained Copper Mlbs					
	Tonnes	Cu Grade	Contained Copper						
Cu %	Tonnes M	Cu Grade %	Contained Copper kt	Mlbs					
Cu %	Tonnes M 15.0	Cu Grade % 0.6	Contained Copper kt 90.8	Mlbs 200.3					
Cu % 0.2 0.5 0.7	Tonnes M 15.0 10.0 3.8	<b>Cu Grade</b> % 0.6 0.7	Contained Copper kt 90.8 70.3 33.5	Mlbs 200.3 154.9 73.8					
Cu % 0.2 0.5 0.7	Tonnes M 15.0 10.0 3.8	<b>Cu Grade</b> % 0.6 0.7 0.9	Contained Copper kt 90.8 70.3 33.5	Mlbs 200.3 154.9 73.8					
Cu % 0.2 0.5 0.7 Meas	Tonnes M 15.0 10.0 3.8 sured Plus Indicated	Cu Grade % 0.6 0.7 0.9 Plus Inferred Minera	Contained Copper kt 90.8 70.3 33.5 Resources (JORC, 2	Mlbs 200.3 154.9 73.8					
Cu % 0.2 0.5 0.7 Meas Reporting Cut-off	Tonnes  M 15.0 10.0 3.8 sured Plus Indicated Tonnes	Cu Grade % 0.6 0.7 0.9 Plus Inferred Minera Cu Grade	Contained Copper kt 90.8 70.3 33.5 I Resources (JORC, 2 Contained Copper	Mlbs 200.3 154.9 73.8 2012) Contained Copper					
Cu % 0.2 0.5 0.7 Meas Reporting Cut-off Cu %	Tonnes  M 15.0 10.0 3.8 sured Plus Indicated Tonnes M	Cu Grade % 0.6 0.7 0.9 Plus Inferred Minera Cu Grade %	Contained Copper kt 90.8 70.3 33.5 I Resources (JORC, 2 Contained Copper kt	Mlbs 200.3 154.9 73.8 2012) Contained Copper Mlbs					

#### Notes:

The 0.2% Cu grade reporting cut-off grade approximates the mineralised domains extents. Mineral Resources for the Beruang Kanan Main Zone mineralisation have been estimated in conformity with generally accepted guidelines outlined in the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (2012 Edition). In the opinion of Duncan Hackman, the block model Resource Estimate and Resource classification reported herein are a reasonable representation of the copper Mineral Resources found in the defined volume of the Beruang Kanan Main mineralisation. Mineral Resources are not Ore Reserves and do not have demonstrated economic viability. There is no certainty that all or any part of the Mineral Resource will be converted into Ore Reserve. Computational discrepancies in the table and the body of the Report are the result of rounding.

## **BKM – Ore Reserves**



	Volume	Tonnes	Total	Soluble	Contain	ed Copper
Ore Reserve Category			Copper	Copper	Total	Soluble
	Mbcm	Mt	%	%	kt	kt
Proved Ore						
Chalcocite Dominant	5.2	14.9	0.7	0.5	103	77
Covellite/Bornite Dominant	1.6	4.4	0.5	0.5	24	20
Chalcopyrite Dominant	0.6	1.9	0.6	0.2	11	3
Total Proved Ore	7.4	21.1	0.6	0.5	137	101
Probable Ore						
Chalcocite Dominant	5.8	15.4	0.6	0.4	88	63
Covellite/Bornite Dominant	2.9	7.8	0.5	0.4	40	31
Chalcopyrite Dominant	2.7	7.2	0.5	0.1	38	11
Total Probable Ore	11.4	30.4	0.5	0.3	166	105
Proved + Probable Ore						
Chalcocite Dominant	11.0	30.2	0.6	0.5	190	140
Covellite/Bornite Dominant	4.5	12.2	0.5	0.4	64	51
Chalcopyrite Dominant	3.3	9.1	0.5	0.2	49	14
Total Proved and Probable Ore	18.8	51.5	0.6	0.4	303	206
Waste Rock	33.1	85.0				
Waste : Ore Ratio	1.8	1.7				

#### Notes:

The tonnes and grades shown in the totals rows are stated to a number of significant figures reflecting the confidence of the estimate. The table may nevertheless show apparent inconsistencies between the sum of components and the corresponding rounded totals. The Ore Reserves are reported within the final pit design forming the basis of the Feasibility Study. They do not include Inferred Mineral Resources. The Ore Reserves treat Inferred Resources within the pit design as waste rock. The Ore Reserves are reported against a variable economic cut-off grade which takes account of the ore type and varying conditions over the project life.

## **Appendix 1. Beutong Project – Mineral Resource**

Large Cu-Au-Mo deposit with higher grade core from surface



#### Beutong 2019 Resource Estimate - Report at 0.3% Cu Lower Cut

Classification	Mineralisation		Grade				Metal			
(JORC 2012)		Tonnes (Mt)	Cu (%)	Au (ppm)	Ag (ppm)	Mo (ppm)	Cu (Kt)	Au (kOz)	Ag (kOz)	Mo (Kt)
Measured	East Porphyry	34.0	0.67	0.13	1.68	90	226	142	1,830	3
Indicated	East Porphyry	50.0	0.57	0.10	1.56	116	281	159	2,485	6
Indicated	Skarn	7.0	0.71	0.28	5.89	8	46	59	1,244	0.1
lu fo uno d	East Porphyry	83.0	0.54	0.13	2.32	147	450	347	6,191	12
Inferred	West Porphyry	321.0	0.43	0.13	0.78	121	1,366	1,340	8,042	39
	Outer East Porphyry	6.0	0.36	0.06	1.12	157	20	11	198	1
	Outer West Porphyry	5.0	0.36	0.10	0.84	54	18	16	133	0.3
	Skarn	5.0	0.67	0.24	5.10	10	32	37	794	0.0
Measured	Total	34.0	0.67	0.13	1.68	90	226	142	1,830	3
Indicated	Total	56.0	0.58	0.12	2.07	125	327	218	3,729	6
Inferred	Total	418.0	0.45	0.13	1.14	125	1,886	1,751	15,359	52
Tota	al	509.0	0.48	0.13	1.28	120	2,429	2,111	20,917	61

#### Beutong 2019 Resource Estimate - Report at 0.5% Cu Lower Cut

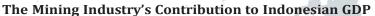
Classification	Minoralization	Tonnos (844)		Gra	de			Me	tal	
(JORC 2012)	Mineralisation	Tonnes (Mt)	Cu (%)	Au (ppm)	Ag (ppm)	Mo (ppm)	Cu (Kt)	Au (kOz)	Ag (kOz)	Mo (Mlb)
Measured	East Porphyry	28.0	0.72	0.13	1.74	92	200	116	1,551	3
lo di cata d	East Porphyry	33.0	0.64	0.10	1.66	119	220	105	1,750	4
Indicated	Skarn	4.0	0.84	0.34	6.51	7	38	49	936	0.03
	East Porphyry	46.0	0.63	0.14	2.49	164	292	208	3,692	8
	West Porphyry	45.0	0.57	0.11	0.88	142	259	161	1,284	6
Inferred	Outer East Porphyry	0.2	0.55	0.09	1.22	226	1	1	8	0.04
	Outer West Porphyry	0.2	0.57	0.08	1.84	51	1	0.6	14	0.012
	Skarn	3.0	0.80	0.27	5.68	8	27	30	623	0.03
Measured	Total	28.0	0.72	0.13	1.74	92	200	116	1,551	3
Indicated	Total	37.0	0.66	0.13	2.24	105	248	154	2,686	4
Inferred	Total	95.0	0.61	0.13	1.83	148	580	399	5,621	14
Tota		160.0	0.64	0.13	1.91	128	1,028	669	9,858	21

## Indonesia

### A Mining Country

- Population of 261.9 million
- Strong economy GDP of 5.07% in 2017
- PwC predicts Indonesia to have the World's 4<sup>th</sup> largest economy in 2050
- 5th largest coal producer, largest coal exporter
- Largest Nickel and 2<sup>nd</sup> largest Tin producer
- 9th largest copper producer
- 10th largest gold producer
- Mining industry accounts for approx. 5% of GDP
- Minerals and related products 14% of exports
- Favorable logistics, proximity to key markets
- LT track record is excellent despite perception e.g.
   Grasberg, Batu Hijau, Kelian, KPC, PT Inco
- Several recent and current developments e.g. G-Resources Martabe, Finders Resources, Vale







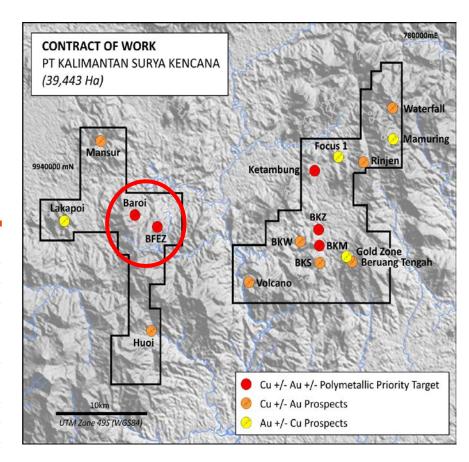
## **KSK Project**

## Regional Scale Tenement – Potential for multiple discoveries



- Copper-rich polymetallic vein systems over 4km² at Far East Zone (FEZ).
   Approximately 10km² of potential interest at Baroi Central and South
- FEZ defined by outcropping massive bornite chalcopyrite copper mineralisation with locally strong lead and zinc mineralisation
- Veins vary in width from cm-scale to up to 15 meters and are associated with a discrete gravity high anomaly
- High-grade mineralisation intersected in several scout drill holes with outstanding results including:

HOLE ID	From (m)	To (m)	Length (m)	Copper (%)	Gold (g/t)	Silver (g/t)	Zinc (%)	Lead (%)
BF-4 (FEZ)	55.8	76.8	21.0	1.56	0.11	30.0	2.2	0.3
BF-5 (FEZ)	0.0	85.5	85.5	2.89	0.22	70.1	1.9	0.6
Including	0.0	31.5	31.5	3.62	0.56	115.0	4.0	1.6
Including	0.0	13.5	13.5	4.48	0.98	166.0	6.2	2.5
Including	22.5	28.5	6.0	5.85	-	96.0	-	-
BF-5 (FEZ)	40.5	64.5	24.0	4.59	-	82.0	1.2	-
Including	46.5	64.5	18.0	5.86	-	79.0	1.6	-
BF-9 (FEZ)	6.8	12.8	6.0	10.45	-	183.0	1.5	0.3
BF-026 (FEZ)	66.8	72.8	6.0	2.43	0.15	44.0	-	-
BF-027 (FEZ)	21.0	27.0	6.0	2.53	-	38.0	-	-
BF-030 (FEZ)	1.0	26.8	25.8	5.05	0.17	159.0	3.0	1.5
Including	1.0	12.1	11.1	11.05	0.24	296.0	2.6	1.6
BF-033 (FEZ)	54.9	64.9	10.0	1.70	0.10	198.0	-	1.5
BF-034 (FEZ)	249.5	253.5	4.0	3.55	0.11	58.0	-	-
BF-040 (FEZ)	60.3	63.3	3.0	5.70	0.26	130.0	9.4	0.9
BF-048 (FEZ)	154.5	184.5	30.0	2.13	-	42.0	-	-
Including	163.5	181.5	18.0	3.20	-	60.0	-	-



## **Community Development**

### Active social development programmes



- Asiamet and its predecessor Companies have been closely involved in community and social development in Central Kalimantan since commencing exploration work in 1981. Company established Yayasan Tambuhak Sinta (YTS) foundation in 1997 and has provided management, staffing, and financial support since
- Asiamet through YTS, has been providing technical, economic, and institutional support to 22 Native Dayak villages surrounding the KSK project in Central Kalimantan. A further 9 villages are targeted for engagement
- Providing a range of capacity building initiatives to assist local communities on a range of issues impacting daily life including
  education and health services to economic and livelihood opportunities, and the development of local infrastructure





