

# **2019 INTERIM RESULTS**

25 July 2019



Real Mining. Real People. Real Difference.

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Throughout this presentation a range of financial and non-financial measures are used to assess our performance, including a number of financial measures that are not defined or specified under IFRS (International Financial Reporting Standards), which are termed 'Alternative Performance Measures' (APMs). Management uses these measures to monitor the Group's financial performance alongside IFRS measures to improve the comparability of information between reporting periods and business units. These APMs should be considered in addition to, and not as a substitute for, or as superior to, measures of financial performance, financial position or cash flows reported in accordance with IFRS. APMs are not uniformly defined by all companies, including those in the Group's industry. Accordingly, it may not be comparable with similarly titled measures and disclosures by other companies.

#### **2019 INTERIM RESULTS AGENDA**

#### **Summary & A Sustainable Business**

Mark Cutifani

#### **Financials**

**Stephen Pearce** 

#### **Growing Quality & Positioned for the Future**

Mark Cutifani



# SUSTAINABLE, LONG-TERM FOCUS

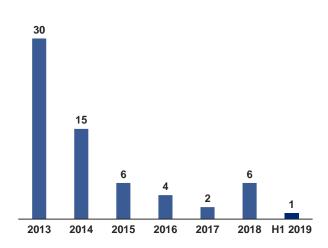


# **SAFETY, HEALTH & ENVIRONMENT**



Environment

Major incidents7,10



Focus on hazards & planned work driving improvements

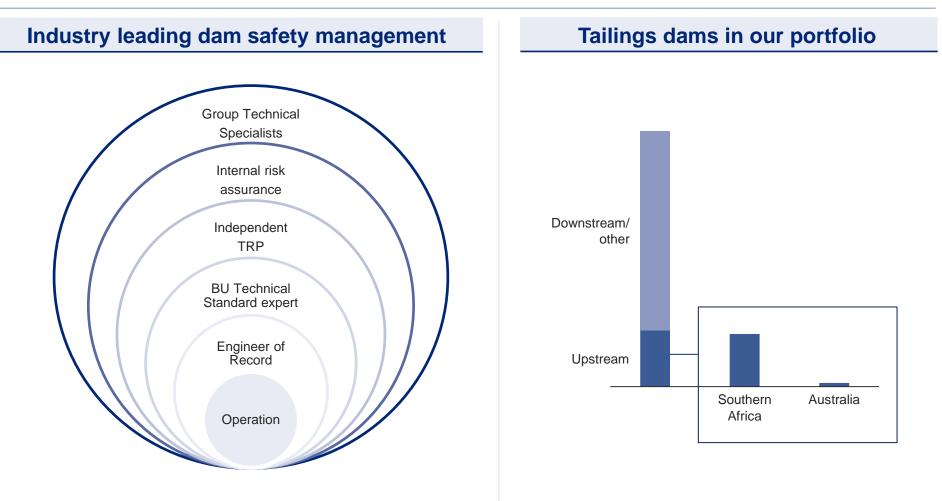
Elimination of Fatalities Taskforce targets systemic & cultural transformation

Upgraded working environments support improvements

Key focus – remove people from high risk areas

Improving discipline in planned work supporting deeper change

## **MANAGING TAILINGS SAFELY**

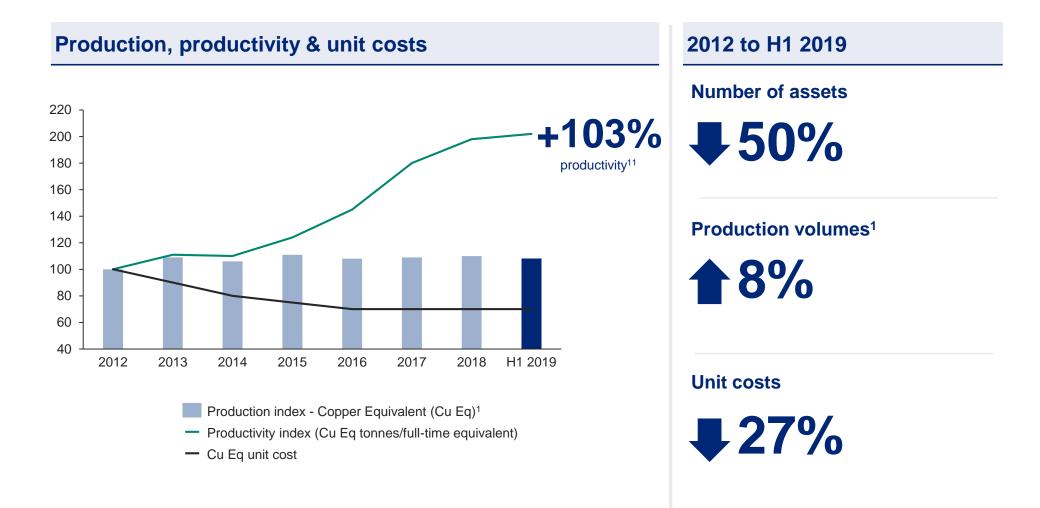


6 levels of assurance: 2 internal, 2 external, 2 independent

No upstream constructed dams in South America

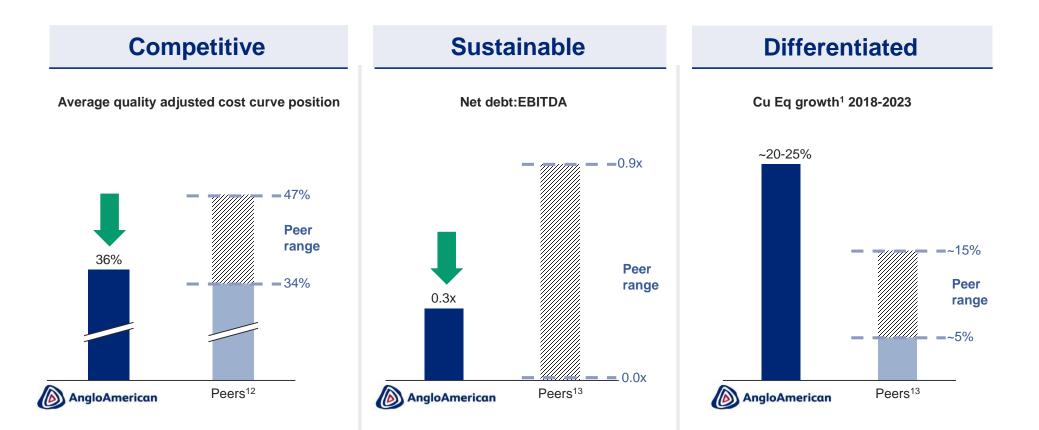


# **FUNDAMENTALLY DIFFERENT BUSINESS**





# **LEADING COMPETITIVE POSITION**



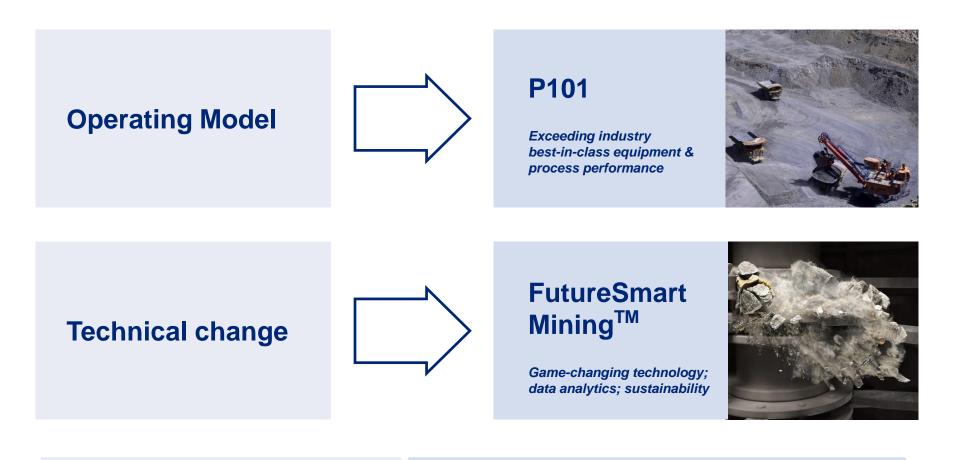


# **A SUSTAINABLE BUSINESS**

#### **Mark Cutifani**



# **STEP-CHANGE IN PERFORMANCE & SUSTAINABILITY**



#### Incremental improvement

#### Step-change



#### **FUTURESMART MINING™ - PRODUCTIVITY & SUSTAINABILITY**





#### **Smart Systems**

precision in execution

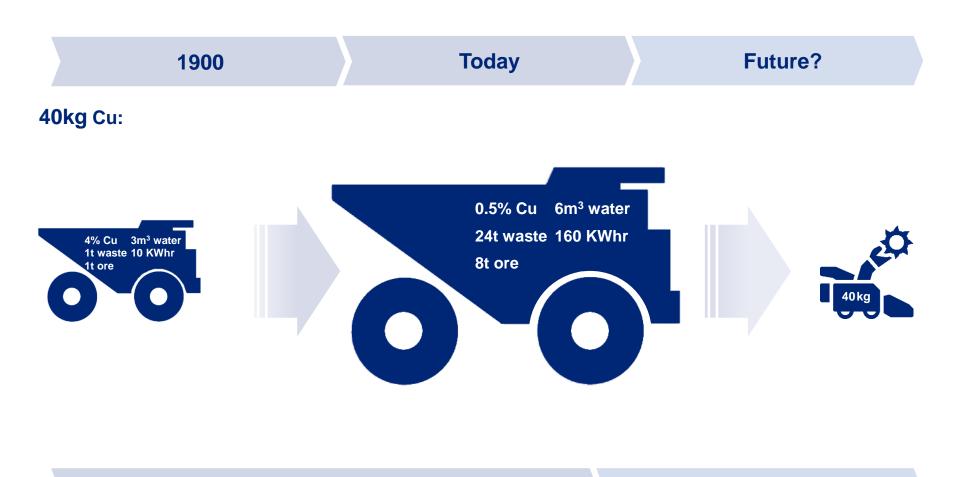
#### Digitalisation

data driven design





# **INNOVATION DRIVING SUSTAINABILITY**

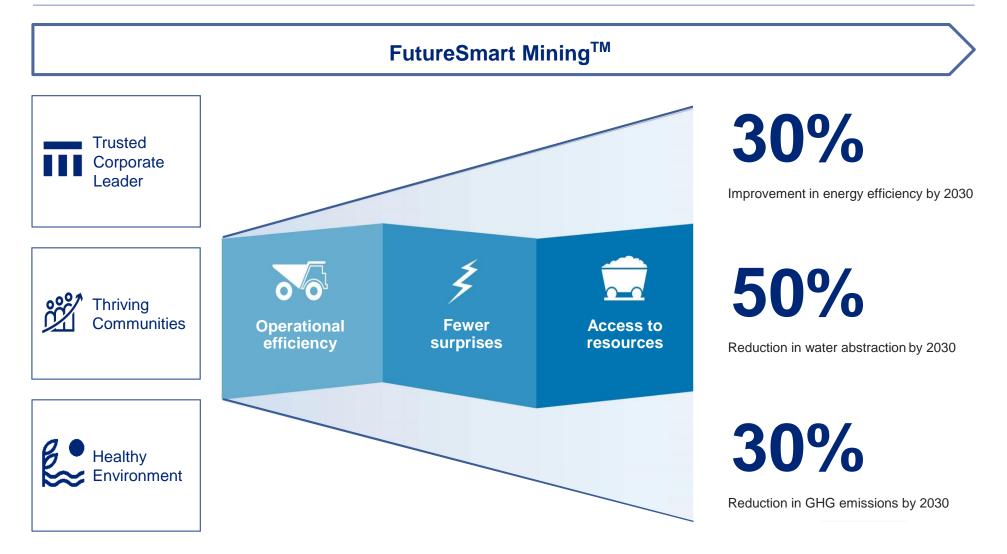


#### **Ever increasing scale**

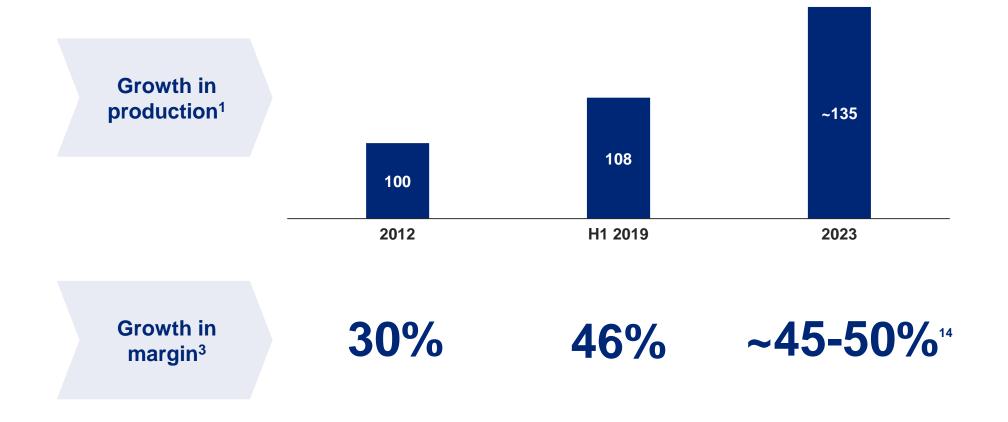
Precise. Predictable. Reliable



### SUSTAINABILITY AT THE HEART OF OUR BUSINESS



#### **INHERENT GROWTH IN PRODUCTION & MARGINS**







# **FINANCIALS**

#### **Stephen Pearce**

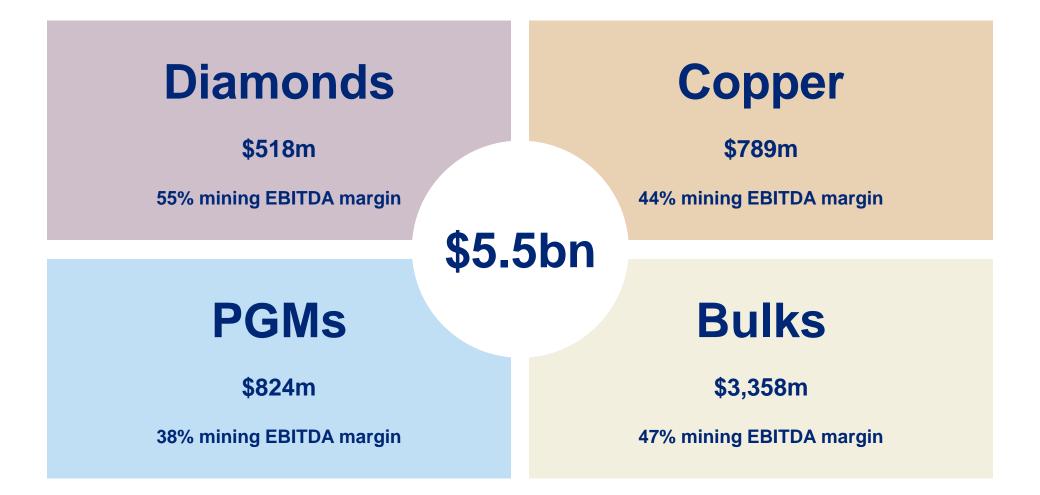


# H1 2019 – CONTINUED DELIVERY

EBITDA <sup>2</sup>	Capital expenditure <sup>16</sup>	40% payout ratio dividend		
<b>\$5.5</b> bn	<b>\$1.4</b> bn			
Underlying EPS <sup>15</sup>	Net debt <sup>17</sup>	Share buyback (up to)		
<b>\$1.58</b> /sh	<b>\$3.4</b> bn	\$1bn		



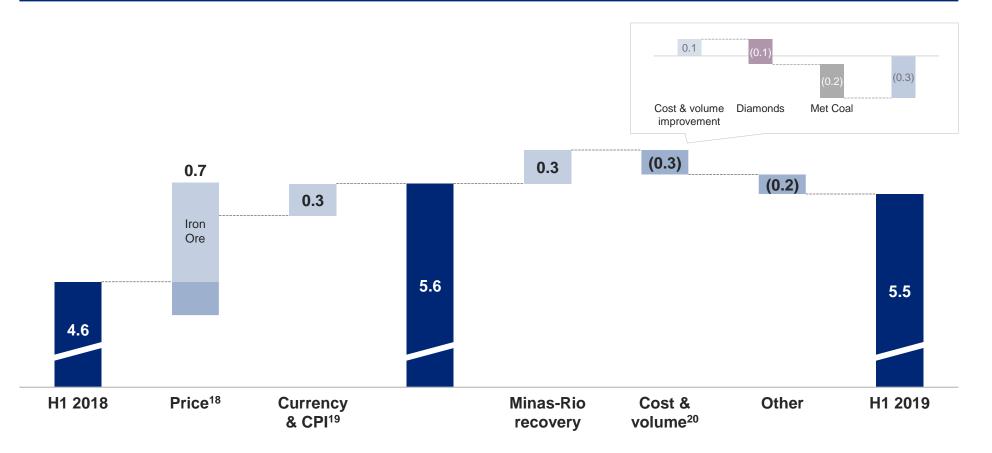
#### **\$5.5BN EBITDA DRIVEN BY STRONG BULKS PRICING**



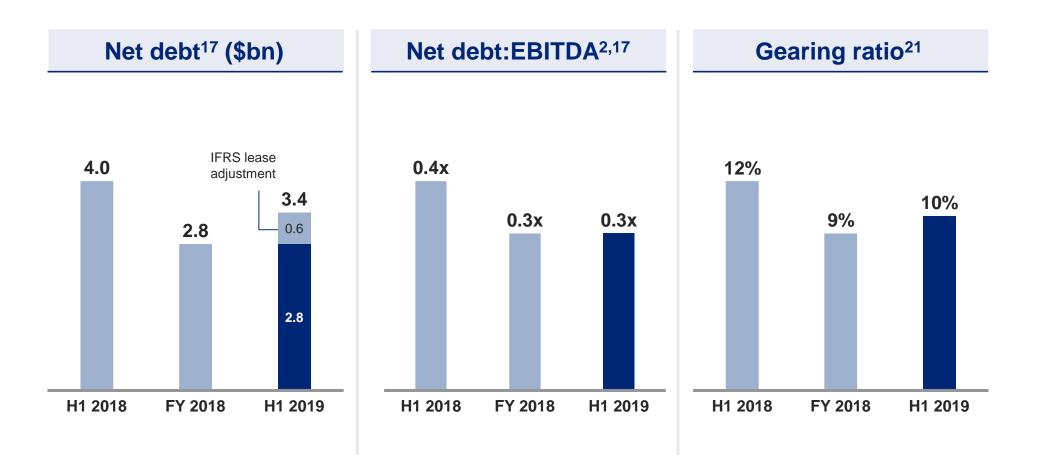


## **IMPROVEMENT DRIVEN BY MINAS-RIO & PRICES**

EBITDA<sup>2</sup> variance: H1 2019 vs H1 2018 (\$bn)



#### **RESILIENT BALANCE SHEET**





## **DELIVERING RETURNS TO SHAREHOLDERS**

2019 interim dividend

**\$0.8**bn

\$3.4bn ordinary dividends since 2017

Dividend per share

62c/sh

40%

**Payout ratio** 

+27% vs H1 2018

of underlying earnings



#### **BALANCED RETURNS TO SHAREHOLDERS**

Share buyback (up to)



**Total returned since 2017** 

**\$4.4**bn

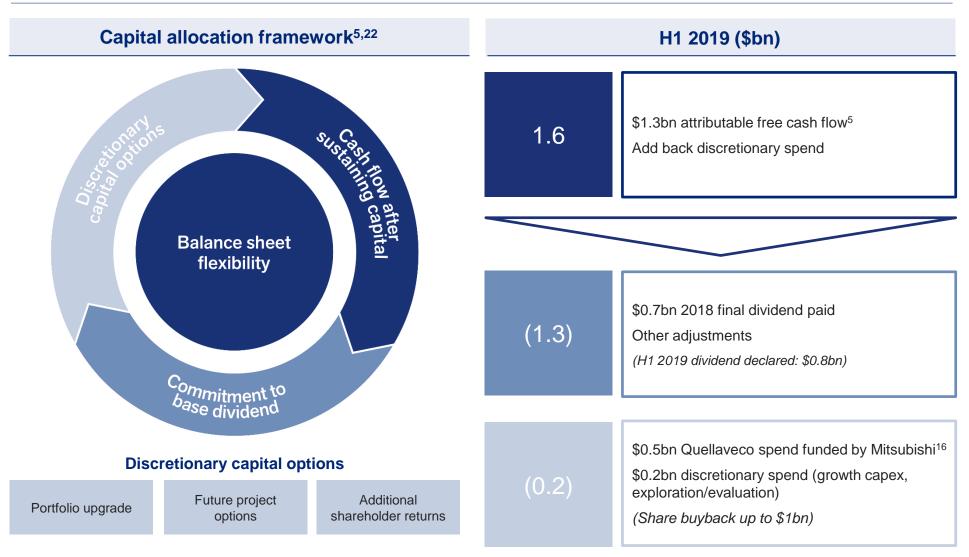




Dividends:buybacks since 2017



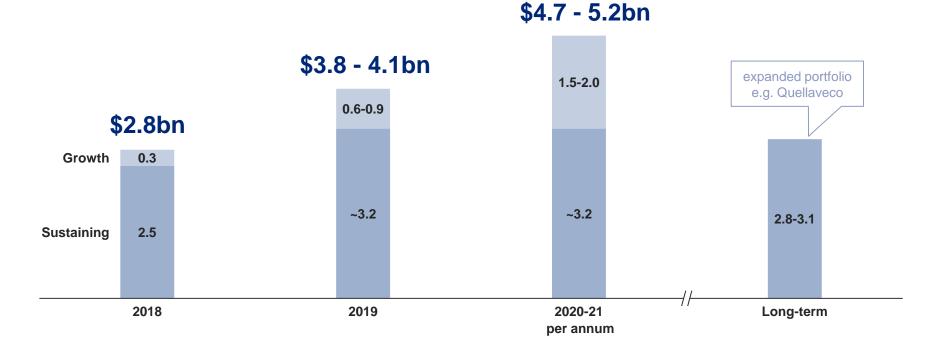
# **BALANCED CAPITAL ALLOCATION**





### ATTRACTIVE HIGH-RETURNING GROWTH OPTIONS DRIVE NEAR-TERM CAPEX

Capex<sup>16</sup> (\$bn)



Excludes Mitsubishi share of Quellaveco capex<sup>16</sup>:

r	r	
<b>\$0.4</b> bn	~\$0.9bn	~\$0.6bn pa
	4	, torono par



# HIGH MARGIN, HIGH RETURN, FAST PAYBACK OPTIONS

2019 growth capex<sup>16</sup>

2020-21 growth capex<sup>16</sup>

# \$0.6bn to \$0.9bn

~\$1.5bn to \$2bn pa

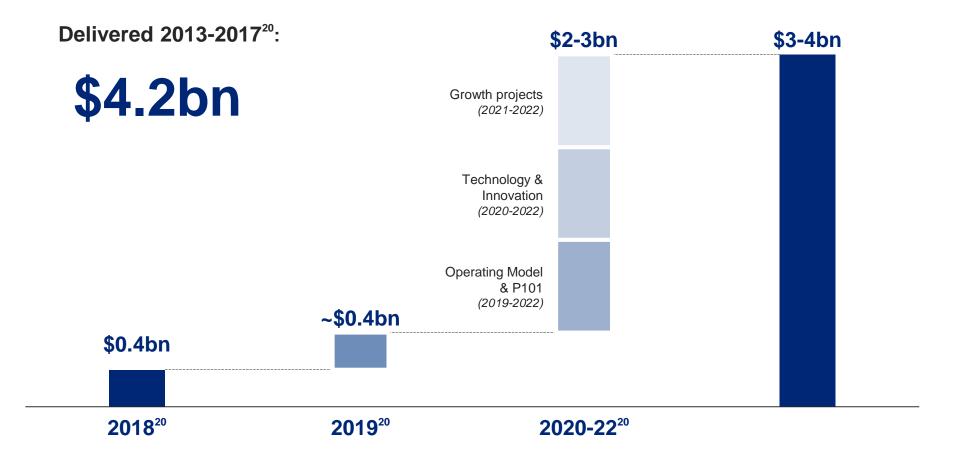
driven by Quellaveco and technology projects

subject to board approvals

#### Disciplined capital allocation framework drives project selection<sup>23</sup>

Quellaveco (Copper)	APPROVED	<i>Our share:</i> \$2.5bn to \$2.7bn <sup>24</sup>	+180ktpa	<i>From:</i> 2022	~4 year payback	>15% IRR	>50% margin
Marine Namibia (Diamonds)	APPROVED	~\$0.2bn	+0.5Mctpa	2022	~3 year payback	>25% IRR	>60% margin
Moranbah-Grosvenor (Met Co	al) ~2020	\$0.3bn to \$0.4bn	+4-6Mtpa <sup>25</sup>	2021/22	~3-4 year payback	>30% IRR	>50% margin
Collahuasi (Copper)	-2021	\$0.9bn to \$1.1bn	+80ktpa	2024	~4 year payback	>20% IRR	>50% margin
Technology & Innovation	ONGOING	0.1bn to \$0.5bn pa		multiple op	tions - rapid paybac	k, low capex	
Sishen & Kolomela (Kumba)	infr	astructure dependen	t				
Mogalakwena expansion (PGMs) significant expansion potential – studies under way							

# **TARGETING \$3-4BN COST & VOLUME IMPROVEMENT**





#### **BALANCED & DISCIPLINED APPROACH**

Attractive growth <sup>1</sup>	Strong margin <sup>3</sup>	Resilient balance sheet		
<b>~20-25%</b>	~45-50%	<1.5x		
Cu Eq production – by 2023	Mining EBITDA margin	bottom of the cycle net debt:EBITDA <sup>2,17</sup>		



# **GROWING QUALITY**

**Mark Cutifani** 



#### WHAT GROWTH MEANS TO US

# Growth in...



# within disciplined capital allocation framework



### **MINAS-RIO – STRONG RAMP UP**



#### FY 2019 guidance upgraded

Production 19-21Mt<sup>26</sup>

FOB unit cost \$24-27/t

H1 2019 FOB realised price \$92/t<sup>26</sup>

#### **Tailings dam lift**

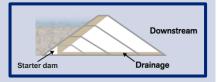
Convert installation to operating licence by end 2019

Subject to State approval

Best-in-class design

Engineered construction

More robust than tailingsbuilt downstream dam





# **PROJECTS UPDATE**

#### **Quellaveco (Copper)**



All major work areas mobilised & on-track Plant earthworks complete Concrete placement for plant under way

#### Marine Namibia (Diamonds)



Approved May 2019 ~3 year build schedule Construction under way

#### Aquila (Met Coal)



Approved July 2019

Grasstree lifex, high quality met coal

~2.5 year build, utilises existing infrastructure





# **POSITIONED FOR THE FUTURE**

#### **Mark Cutifani**

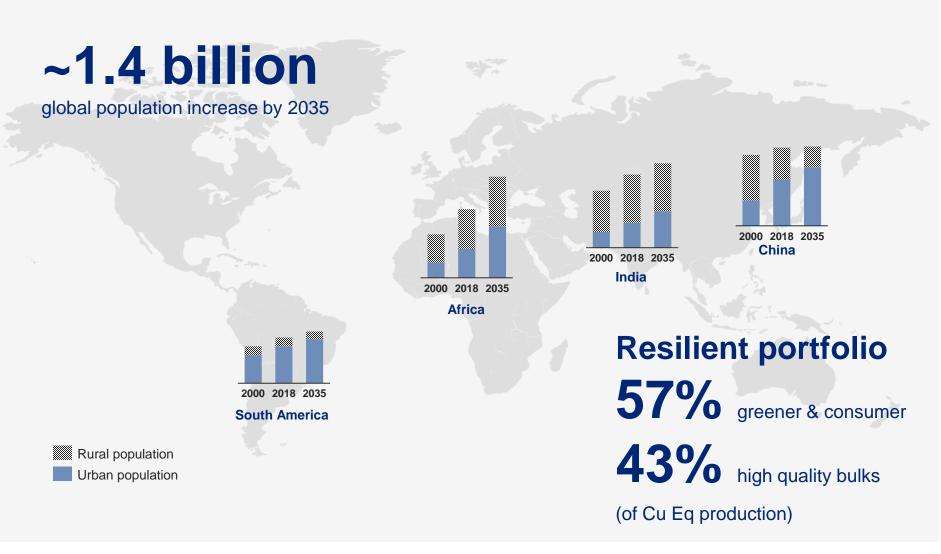


#### **ASSET QUALITY PLAYS TO GLOBAL DEMAND THEMES**





# **RESILIENT PORTFOLIO BENEFITS FROM MACRO TRENDS**



# **OUR HIGH QUALITY PRODUCTS**













# **INVESTMENT PROPOSITION**

"Leading capabilities actively improving a world-class asset base to drive sustainable, competitive returns"

Assets	Capabilities	Returns
Focus on quality	Operating Model	Capital discipline
Long life	FutureSmart Mining <sup>™</sup> Technology & Sustainability	Dividend payout ratio
Low cost growth optionality	Marketing Model	Strong balance sheet







**Copper: electrification supporting renewables** 



PGMs: air quality & lower emissions



Diamonds: aspiration & growing prosperity



Quality bulks: modern infrastructure development

# **PRODUCTS THAT IMPROVE PEOPLE'S LIVES**

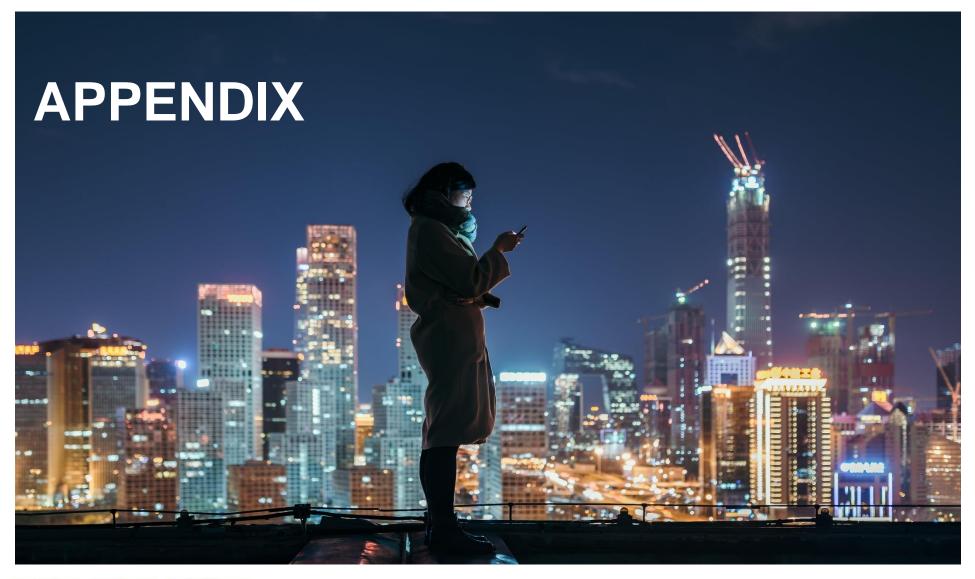


### FOOTNOTES

- 1. Copper equivalent production is calculated using long-term consensus parameters. Excludes domestic / cost-plus production. Production shown on a reported basis. Includes assets sold, closed or placed on care and maintenance.
- 2. All metrics in presentation shown on an underlying basis.
- Margin represents the Group's underlying EBITDA margin for the mining business. It excludes the impact of non-mining activities (eg PGMs purchases of concentrate, sale of non-equity product by De Beers, 3<sup>rd</sup>-party trading activities performed by Marketing) & at Group level reflects Debswana accounting treatment as a 50/50 JV.
- 4. Share buyback programme up to \$1bn.
- 5. 'Cash flow after sustaining capital' comprises attributable free cash flow excluding discretionary capex and exploration / evaluation expenditure. Attributable free cash flow is defined as net cash inflows from operating activities net of total capital expenditure, net interest paid, dividends paid to minorities and lease commitments arising on the commencement of new leases.
- 6. Attributable ROCE is defined as attributable underlying EBIT divided by average attributable capital employed. It excludes the portion of the return and capital employed attributable to non-controlling interests in operations where the Group has control but does not hold 100% of the equity.
- 7. Data relates to subsidiaries and joint operations over which Anglo American has management control. Since 2018 data for TRCFR and environmental metrics excludes results from De Beers' joint venture operations in Namibia and Botswana. Prior years' data includes 100% of De Beers' joint venture operations in Namibia and Botswana.
- 8. Total Recordable Cases Frequency Rate per million hours.
- 9. New cases of occupational disease May YTD.
- 10. Reflects level 3-5 incidents May YTD. Environmental incidents are classified in terms of a 5-level severity rating. Incidents with medium, high and major impacts, as defined by standard internal definitions, are reported as level 3-5 incidents.
- 11. 2012-H1 2019 annualised. Includes impact of portfolio upgrading.
- 12. Source: Wood Mackenzie; AAP; De Beers; CRU. Includes non-AA mined commodities (e.g. zinc, bauxite). Excludes non-mining activities (e.g. petroleum, alumina/aluminium processing, marketing).
- 13. Peer range: leverage based on 2018. Growth based on data from external advisors.
- 14. Range based on LT consensus prices and 2018 average prices.
- 15. Underlying earnings is profit attributable to equity shareholders of the Company, before special items and remeasurements (therefore presented after net finance costs, income tax expense and non-controlling interests). Underlying EPS is underlying earnings divided by shares in issue.

- 16. Cash expenditure on property, plant and equipment including related derivatives, net of proceeds from disposal of property, plant and equipment and includes direct funding for capital expenditure from non-controlling interests. Shown excluding capitalised operating cash flows. Attributable share of Quellaveco capex, net of syndication proceeds, see appendix, slide 47.
- 17. Net debt excludes the own credit risk fair value adjustment on derivatives.
- 18. Price variance calculated as increase/(decrease) in price multiplied by current period sales volume.
- 19. Inflation variance calculated using CPI on prior period cash operating costs that have been impacted directly by inflation.
- 20. Cost plus volume. Volume: increase/(decrease) in sales volumes multiplied by prior period EBITDA margin (ie flat unit costs, before CPI). For assets with no prior period comparative (eg in ramp up) all EBITDA is included in the volume variance. Cost: change in unit cost, again, before CPI inflation.
- 21. Net debt / (net assets + net debt).
- 22. 'Balance sheet flexibility to support dividends' includes other items, including translation differences and employee share scheme purchases. 'Discretionary capital options' comprises discretionary capex and exploration / evaluation expenditure and portfolio upgrading.
- 23. All metrics shown attributable Anglo American share.
- 24. Attributable share post share subscription proceeds. See appendix, slide 47.
- 25. Initial stage of upgrade work in 2019 performed, increasing capacity by ~1Mtpa, remaining capacity increase 3-5Mtpa.
- 26. Wet basis.
- 27. Sources: internal analysis, peers' reported results.





Real Mining. Real People. Real Difference.

### **GUIDANCE SUMMARY**

Earnings	Capex <sup>1</sup>		Other
Volumes: See slide 43	2019	\$3.8-4.1bn	Quellaveco copper project
Unit costs: See slide 44	- Growth	\$0.6-0.9bn	- Our share of capex included in capex
2019 depreciation: ~\$3bn	- Sustaining	~\$3.2bn	guidance
2019 effective tax rate: 29-31%	2020-2021	\$4.7-5.2bn	- Mitsubishi share of capex increase to
Effective tax rate going	- Growth	\$1.5-2.0bn	net debt (see slide 47)
forward: 30-33%	- Sustaining	~\$3.2bn	<b>Net debt:EBITDA</b> : <1.5x bottom cycle
Dividend pay-out ratio: 40%	Long-term sustaining	\$2.8-3.1bn	IFRS 16 <i>Leases</i> impacts (slide 70)
	Sustaining		<ul> <li>\$0.6bn non-cash increase to net debt (\$0.5bn opening &amp; \$0.1bn H1 leases)</li> </ul>

1. Cash expenditure on property, plant and equipment including related derivatives, net of proceeds from disposal of property, plant and equipment and includes direct funding for capital expenditure from non-controlling interests. Shown excluding capitalised operating cash flows. Attributable share of Quellaveco capex, net of syndication proceeds, see appendix, slide 47.



### H1 2019 SIMPLIFIED EARNINGS BY BU

<b>\$m</b> (unless stated)	De Beers	Copper	PGMs	Kumba	Minas-Rio	Met Coal	Thermal Coal	Nickel	Other <sup>1</sup>	Total
Sales volume (mined)	15.5Mct <sup>2</sup>	307kt	612kt Pt <sup>3</sup>	21.4Mt	10.6Mt	9.9Mt <sup>4</sup>	13.6Mt <sup>5</sup>	18.6kt		
Benchmark price	n/a	\$6,165/t <sup>6</sup>	n/a	\$91/t <sup>7</sup>	\$106/t <sup>8</sup>	\$191/t <sup>9</sup>	\$69/t <sup>10</sup>	\$12,324/t <sup>6</sup>		
Product premium/discount per unit	n/a	n/a	n/a	\$18/t <sup>11</sup>	\$4/t <sup>12</sup>	\$(8)/t <sup>13</sup>	\$(6)/t <sup>14</sup>	\$88/t		
Freight/moisture/provisional pricing per unit	n/a	\$8/t <sup>15</sup>	n/a	\$(1)/t <sup>16</sup>	\$(18)/t <sup>17</sup>	n/a	n/a	n/a		
Realised FOB Price	\$140/ct <sup>18</sup>	\$6,173/t	\$2,883/oz <sup>19</sup>	\$108/t	\$92/t	\$183/t <sup>20</sup>	\$63/t <sup>21</sup>	\$12,412/t		
FOB/C1 unit cost	\$62/ct	\$2,976/t	\$1,551/oz	\$34/t	\$21/t	\$68/t	\$43/t <sup>21</sup>	\$9,039/t		
Royalties per unit	\$4/ct	-	\$69/oz	\$4/t	\$3/t	\$18/t	\$3/t	\$98/t		
Other costs per unit <sup>22</sup>	\$9/ct	\$627/t	\$180/oz	\$6/t	\$5/t	\$5/t	\$11/t	\$479/t		
FOB Margin per unit	\$65/ct	\$2,570/t	\$1,083/oz	\$64/t	\$63/t	\$92/t	\$7/t	\$2,796/t		
Mining EBITDA	422	789	662	1,366	670	906	91	52	236	5,197
Processing & trading <sup>23</sup>	96	-	162	-	-	-	(1) <sup>24</sup>	-	-	254
Total EBITDA	518	789	824	1,366	670	906	90	52	236	5,451

### H1 2019 SIMPLIFIED EARNINGS BY BU - NOTES

#### **PGMs basket price**

Own mined volumes PGMs basket	Price	Volume	Revenue
Platinum	\$833/oz	612koz	\$509m
Palladium	\$1,401/oz	535koz	\$749m
Rhodium	\$2,855/oz	85koz	\$244m
Nickel	\$12,528/t	7.2kt	\$90m
Other <sup>25</sup>			\$171m
Total revenue			\$1,763m
Platinum volume			612koz
Basket price (per platinum oz) <sup>19</sup>			\$2,883/oz

- 1. Samancor, exploration and central corporate cost.
- 2. 6.5Mct proportionate share of sales volumes (19.2% Botswana, 50% Namibia).
- 3. Own mined sales volumes including proportionate share of JV volumes.
- 4. Excludes thermal coal sales.
- 5. Thermal Coal South Africa and Cerrejón. Export sales and domestic sales at export parity pricing.
- 6. LME price, c/lb converted to \$/tonne (2,204.62 lbs/tonne).
- 7. Platts 62% Fe CFR China.
- 8. MB 66% Fe concentrate CFR.
- 9. Weighted average of HCC/PCI prices, FOB Aus.
- 10. Weighted average FOB SA, FOB Col.
- 11. 64.3% Fe content, 68% of volume attracting lump premium.
- 12. 66.9% Fe content, pellet feed.
- 13. Volumes 83% HCC averaging 95% realisation of quoted low vol HCC price.
- 14. Total average 91% realisation of quoted price.

#### **Coal blended price & unit cost**

Coal weighted average market prices & unit cost	Unit cost	Price	Volume
HCC		\$205/t	8.2Mt
PCI		\$125/t	1.7Mt
Weighted average metallurgical coal <sup>9</sup>	\$68/t	\$191/t	9.9Mt
Thermal coal FOB South Africa	\$46/t	\$74/t	9.2M
Thermal coal FOB Colombia	\$36/t	\$60/t	4.4M
Weighted average thermal coal <sup>10</sup>	\$43/t	\$69/t	13.6M

- 15. Provisional pricing and timing differences on sales.
- 16. Freight partly offset by ~\$7/t upside from provisional pricing & other adjustments.
- 17. Freight & 8% moisture adjustment (converts dry benchmark to wet product) partly offset by ~\$7/t upside from provisional pricing & other adjustments.
- 18. The realised price for proportionate share (19.2% Debswana, 50% Namibia) excluding the 4.1% trading margin achieved in H1 2019.
- 19. Price for basket of goods per platinum oz.
- 20. Adjusted to include Jellinbah.
- 21. Weighted average Thermal Coal South Africa and Cerrejón.
- 22. Includes market development & strategic projects, exploration & evaluation costs, restoration & rehabilitation costs and other corporate costs.
- 23. Processing and trading of product purchased from third parties and Isibonelo domestic thermal coal mine.
- 24. H1 2019 loss in Isibonelo cost-plus domestic operation offsetting trading profits.
- 25. Iridium, ruthenium, gold, copper, chrome and other by-products

### **EARNINGS SENSITIVITIES**

Sensitivity Analysis – H1 2019 <sup>1</sup>			Impact of 10% change in price / FX
Commodity / Currency	30 June spot	Average realised	EBITDA (\$m)
Copper (c/lb) <sup>(2)</sup>	271	280	193
Platinum (\$/oz)	818	831	61
Palladium (\$/oz)	1,524	1,400	86
Rhodium (\$/oz)	3,365	2,840	32
Iron Ore (\$/t)	118	Kumba: 108 IOB: 92	300
Hard Coking Coal (\$/t)	194	195	101
Thermal Coal (SA) (\$/t)	64	64	57
Nickel (c/lb) <sup>(3)</sup>	574	563	32
Oil price		66	38
South African rand	14.17	14.20	285
Australian dollar	0.70	0.71	100
Brazilian real	3.82	3.84	36
Chilean peso	680	676	34

1. Reflects change on actual results for H1 2019.

Includes copper from both the Copper and PGMs Business Units. Includes nickel from both the Nickel and PGMs Business Units. 2.

3.

### **PRODUCTION OUTLOOK**

	Units	2017	2018	2019F	2020F	2021F
Diamonds <sup>1</sup>	Mct	33	35	~31 (previously 31-33)	33-35	35-37
Copper <sup>2</sup>	kt	579	668	~630-660	~620-680	~590-650
Platinum <sup>3</sup>	Moz	2.4	2.5	~2.0-2.14	~2.0-2.24	~2.0-2.24
Palladium <sup>3</sup>	Moz	1.6	1.6	1.3-1.4 <sup>4</sup>	1.3-1.4 <sup>4</sup>	1.3-1.4 <sup>4</sup>
Iron ore (Kumba)⁵	Mt	45	43	42-43 (previously ~43-44)	43-45	43-45
Iron ore (Minas-Rio) <sup>6</sup>	Mt	17	3	19-21 (previously 18-20)	21-23	22-24
Metallurgical coal <sup>7</sup>	Mt	20	22	22-24	23-25	25-27
Thermal coal <sup>8</sup>	Mt	29	29	26-28 <sup>8</sup>	28-30	28-30
Nickel <sup>9</sup>	kt	44	42	42-44	~45	~45

1. On a 100% basis except for the Gahcho Kué joint venture, which is on an attributable 51% basis. Production is subject to trading conditions. Reduction in 2019 volumes due to declining open pit production at Venetia, and Victor and Voorspoed end-of-mine-lives.

2. Copper business unit only. On a contained-metal basis.

3. Produced ounces. Includes production from joint operations, associates and third-parties.

4. Decline from 2018 due to Rustenburg POC, which will be processed based on a tolling arrangement from 1 January 2019 and therefore is excluded from production guidance.

5. Dry basis. Subject to rail performance.

6. Wet basis. Current guidance assumes receipt of final tailings licence by end of 2019.

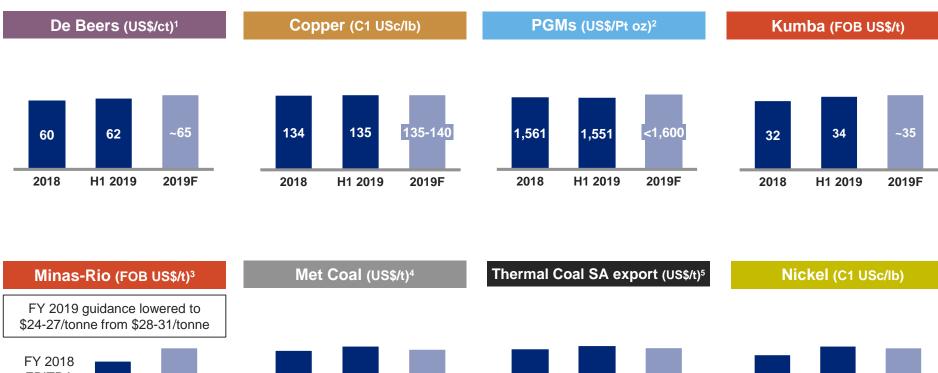
7. Excludes thermal coal production.

8. Export South Africa and Colombia production. Decrease in 2019 as South African operations transition into new areas, and due to lower Cerrejón production 2019-2021.

9. Nickel business unit only.



### **UNIT COSTS PERFORMANCE BY BUSINESS UNIT**



EBITDA 410 24-27 68 ~65 44 46 ~45 361 -400 64 21 loss of \$312m<sup>3</sup> H1 2019 2018 2019F 2018 H1 2019 2019F 2019F 2018 H1 2019 2019F 2018 H1 2019

Note: Unit costs exclude royalties, depreciation and include direct support costs only.

- 1. De Beers unit cost is based on De Beers' share of production. The increase in 2019 is primarily lower equity production driven by the process of exiting from the Venetia open pit with the underground becoming the principal source of ore from 2023.
- 2. Numbers given are per platinum ounce.
- 3. Minas-Rio operations were suspended for the majority of 2018 following two leaks in the iron ore pipeline.
- 4. Metallurgical Coal FOB/t unit cost excludes royalties and study costs.
- 5. Thermal Coal SA FOB/t unit cost comprises trade mines only, excludes royalties.



### LIFE EXTENSIONS WILL DELIVER VALUE; HIGHER NEAR-TERM SUSTAINING CAPEX

2019-21 sustaining capex<sup>1</sup>

Long-term sustaining capex<sup>1</sup>



~\$2.8-3.1bn

driven by lifex

for expanded portfolio

#### Lifex projects - subject to disciplined capital allocation framework

Venetia Underground (Diamonds)	~\$0.2bn pa	5 Mctpa	from 2023	+22 years >15% IRR	>50% margin
Aquila <sup>2</sup> (Met Coal)	~\$0.1bn pa	3.5 Mtpa	from 2022	+6 years >30% IRR	>40% margin
Khwezela <sup>3</sup> (Thermal Coal)	~\$0.1bn pa	3 Mtpa	from 2019	+9 years >40% IRR	>45% margin
Jwaneng (Diamonds)	~\$0.1bn pa	9 Mctpa	from 2027	+7 years >15% IRR	>50% margin

2. Lifex for Grasstree underground mine within Capcoal complex. Subject to Mitsui approval.

3. Khwezela lifex into Landau Navigation pit.



<sup>1.</sup> Cash expenditure on property, plant and equipment including related derivatives, net of proceeds from disposal of property, plant and equipment and includes direct funding for capital expenditure from non-controlling interests. Shown excluding capitalised operating cash flows. Attributable share of Quellaveco capex, net of syndication proceeds, see slide 47.

### **QUELLAVECO – FINANCIAL MODELLING**

Ownership	Anglo American 60%, Mitsubishi 40%
Accounting treatment	Fully consolidated with a 40% minority interest Shareholder loans from minority shareholder to be consolidated in Anglo American Group net debt
Project capex (nominal)	\$5.0-5.3 billion (100% basis - Anglo American share 60%, Mitsubishi share 40%)
Construction time / first production	<4 years, from August 2018. First production in 2022
Production (copper equivalent) (ktpa)	~330 average over first five years ~300 average over first 10 years ~240 average over 30 year Reserve Life
By-products	~6ktpa contained molybdenum (average over first 10 years), with silver content
C1 cash cost (\$/lb) (real)	0.96 average over first five years 1.05 average over first 10 years 1.24 average over 30 year Reserve Life
Grade (%TCu)	0.84% ROM average over first five years 0.73% ROM average over first 10 years 0.57% average over 30 year Reserve Life
Stay-in-business capex (real)	~\$70 million pa
Tax rate	~40%



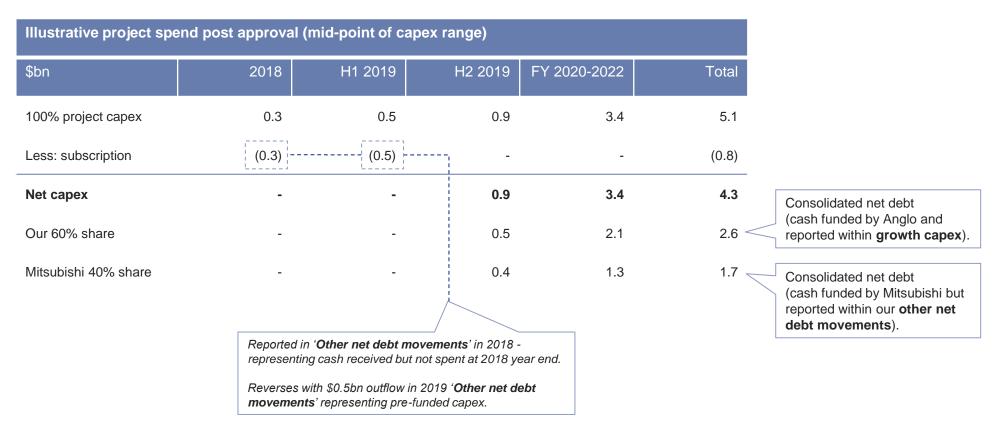
### **QUELLAVECO – ACCOUNTING**

Anglo American consolidates 100% of Quellaveco's P&L and Balance Sheet.

Mitsubishi's 40% share is shown as a non-controlling interest.

After the initial \$0.8bn equity injection by Mitsubishi, the project is expected to be funded 60:40 through shareholder debt.

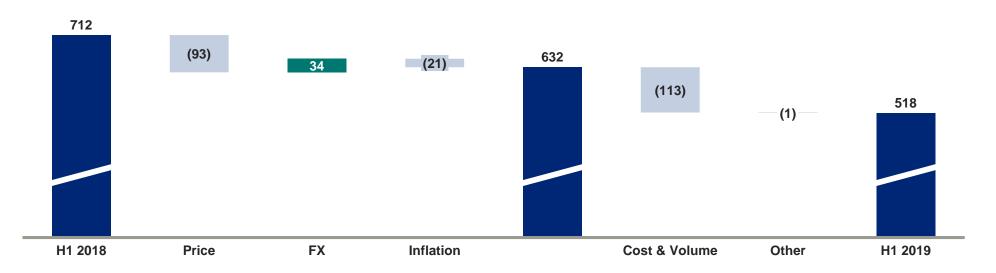
Group net debt by the end of the project is expected to include ~\$1.7bn debt from Mitsubishi (40% of shareholder debt); which is funded from their 40% of Quellaveco.



### **DE BEERS – SUPPLYING TO DEMAND**

	Production <sup>1</sup>	Sales (Cons.)²	Average price index	Realised price	Unit cost³	Underlying EBITDA	Mining margin⁴	Capex
H1 2019	15.6Mct	15.5Mct	118	\$151/ct <sup>5</sup>	\$62/ct	\$518m	55%	\$278m
vs. H1 2018	↓11%	<b>↓</b> 13%	↓4%	↓7%	↓7%	<b>↓</b> 27%	Орр	<b>1</b> 78%

Underlying EBITDA (\$m)

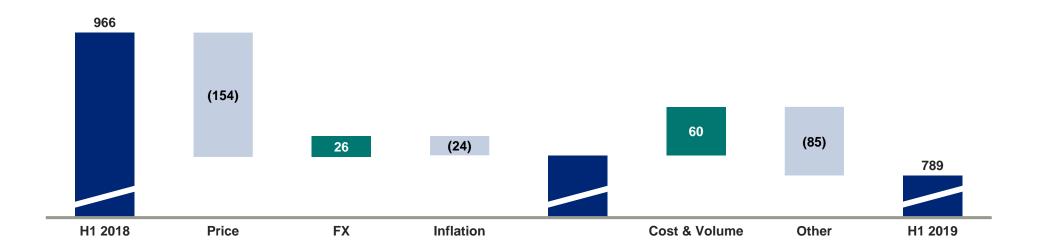


- 1. Shown on a 100% basis except for the Gahcho Kué joint venture, which is on an attributable 51% basis.
- 2. Sales of 16.5Mct on a 100% basis (12% decrease).
- 3. De Beers unit costs are based on consolidated production and operating costs, excluding depreciation and special items, divided by carats recovered.
- 4. Represents the underlying EBITDA margin for the mining business. It excludes the impact of the sale of non-equity product by De Beers.
- 5. Consolidated realised price total sales.

#### **COPPER – PRICE OFFSETTING STRONG OPERATIONAL PERFORMANCE**

	Production	Sales <sup>1</sup>	Realised price <sup>1</sup>	C1 unit cost <sup>2</sup>	Underlying EBITDA	Mining margin <sup>3</sup>	Сарех
H1 2019	320kt	307kt	280c/lb	135c/lb	\$789m	44%	\$242m
vs. H1 2018	12%	0%	↓6%	↓5%	<b>↓</b> 18%	↓8pp	↓34%

#### Underlying EBITDA (\$m)

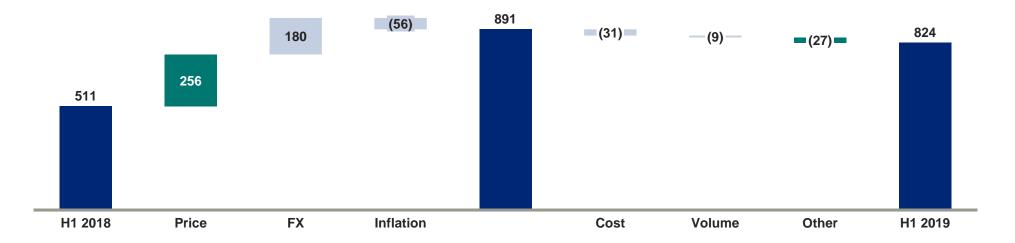


- 1. Excludes impact of third-party sales.
- 2. Includes by-product credits.
- 3. Represents the underlying EBITDA margin for the mining business. It excludes the impact of third-party trading activities.

### **PGMs – STRONG BASKET PRICE**

	Production <sup>1</sup>	Pt sales <sup>2</sup>	Realised basket price <sup>2</sup>	Unit cost <sup>3</sup>	Underlying EBITDA	Mining margin⁴	Сарех
H1 2019	Pt: 992koz Pd: 674koz	1,009koz	\$2,685/Pt oz	\$1,551/Pt oz	\$824m	38%	\$217m
vs. H1 2018	↓1% / ↓4%	<b>↓</b> 10%	116%	↓3%	161%	18pp	0%

Underlying EBITDA (\$m)



1. Production is on a metal in concentrate basis.

2. Excludes trading volumes of 18koz.

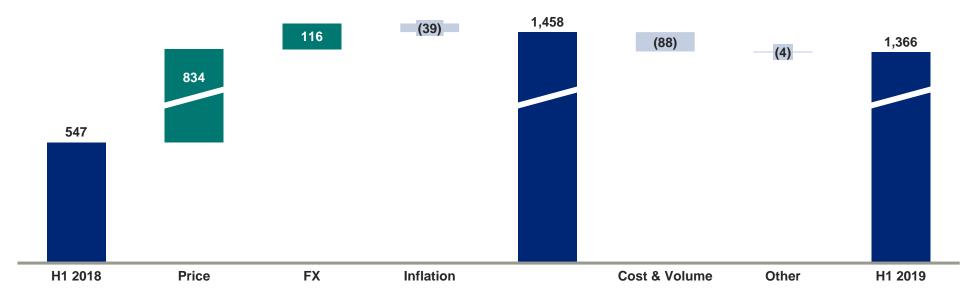
3. Own mined production and equity production of joint ventures.

4. Represents the underlying EBITDA margin for the mining business. It excludes the impact of purchases of concentrate, tolled material and third-party trading activities.

### **KUMBA IRON ORE – HIGH IRON ORE PRICES**

	Production	Sales	Realised price (FOB) <sup>1</sup>	Unit cost (FOB)	Underlying EBITDA	Mining margin	Capex
H1 2019	20.1Mt	21.4Mt	\$108/t	\$34/t	\$1,366m <sup>2</sup>	57%	\$186m
vs. H1 2018	<b>↓</b> 11%	<b>1</b> 1%	<u></u> 157%	↓3%	138%	121pp	<b>1</b> 35%

Underlying EBITDA (\$m)



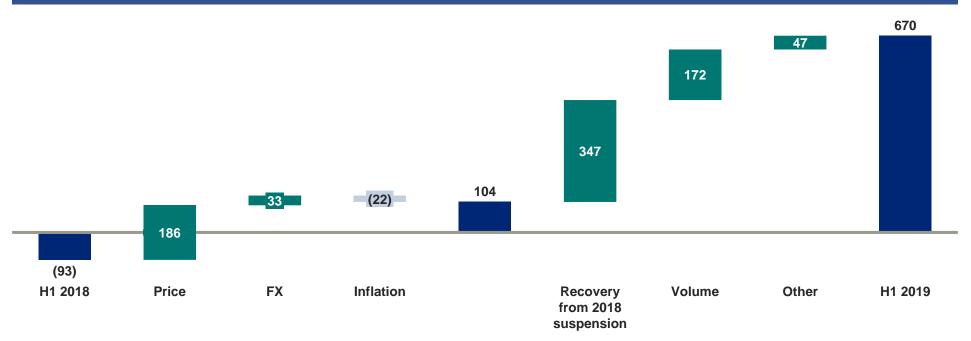
1. Break-even price of \$32/t for H1 2019 (H1 2018: \$41/t) (62% CFR dry basis).

2. Includes corporate and projects cost of \$27m.

### **MINAS-RIO – STRONG PERFORMANCE FOLLOWING RESTART**

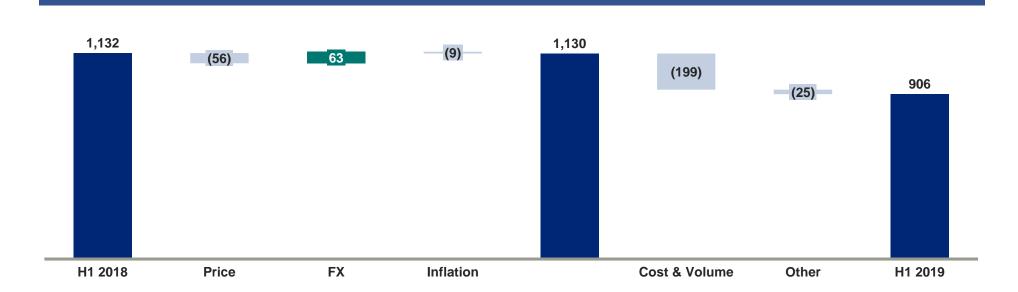
	Production	Sales	Realised price (FOB)	Unit cost (FOB)	Underlying EBITDA	Mining margin	Сарех
H1 2019	10.8Mt (wet)	10.6Mt	\$92/wmt	\$21/t	\$670m <sup>1</sup>	60%	\$92m
vs. H1 2018	1243%	1230%	131%	n/a	n/a	n/a	<b>†</b> 493%

Underlying EBITDA (\$m)



### **METALLURGICAL COAL – PRODUCTION TIMING**

	Metallurgical production <sup>1</sup>	Metallurgical sales <sup>1</sup>	FOB realised price <sup>2</sup>	Unit cost <sup>3</sup>	Underlying EBITDA	Mining margin	Capex
H1 2019	10.0Mt	9.9Mt	\$187/t	\$68/t	\$906m <sup>4</sup>	50%	\$253m
vs. H1 2018	↓7%	↓8%	↓4%	<u>1</u> 3%	<b>↓</b> 20%	↓5pp	<mark>1</mark> 16%



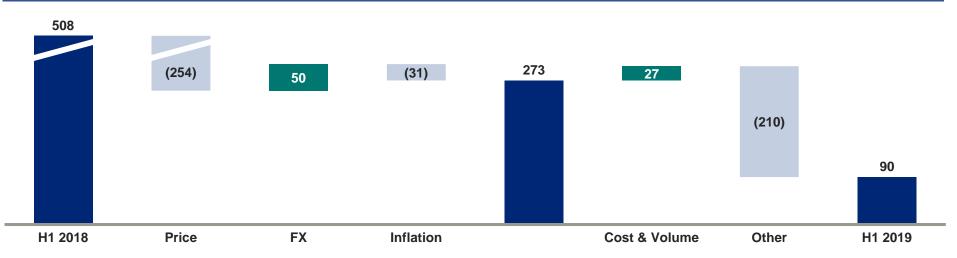
- 1. Excludes thermal coal.
- 2. Weighted average HCC and PCI. Excludes thermal coal.
- 3. FOB unit cost excluding royalties and study costs.
- 4. Includes corporate and projects costs of \$28m.

Underlying EBITDA (\$m)

### **THERMAL COAL – IMPACTED BY LOWER PRICES**

	Export prod. SA <sup>1</sup> / Col	Sales SA² / Col	FOB price <sup>3</sup> SA / Col	Unit cost⁴ SA / Col	Underlying EBITDA SA⁵ / Col	Mining margin SA <sup>6</sup> / Col	SA Capex
H1 2019	9.0Mt / 4.2Mt	9.2Mt / 4.4Mt	\$64/t / \$62/t	\$46/t / \$36/t	\$14m / \$76m	4% / 28%	\$83m
vs. H1 2018	13% / ↓19%	16% / ↓15%	↓27% / ↓22%	↓4% / <mark>1</mark> 3%	<b>↓</b> 96% / ↓60%	↓32pp/ ↓18pp	↓5%

#### **Underlying EBITDA (\$m)**



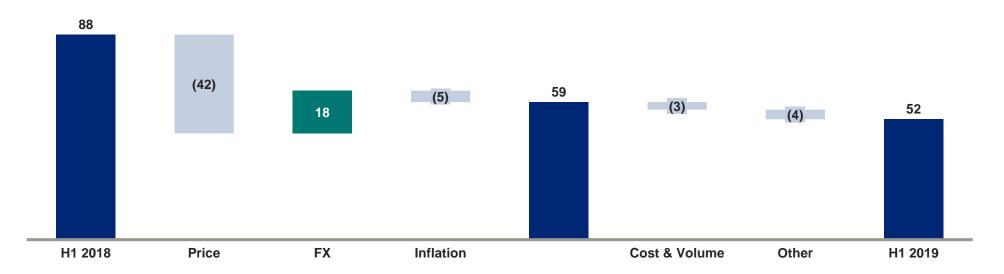
SA = South Africa, Col = Colombia/Cerrejón mine

- 1. Export primary production, secondary production sold into export markets and production sold domestically at export parity pricing. Excludes Eskom-tied operations and Isibonelo production.
- 2. Export primary production, secondary production sold into export markets and production sold domestically at export parity pricing. Excludes Eskom-tied operations, Isibonelo and sales of third-party purchases.
- 3. Weighted average export thermal coal price achieved. Excludes third party sales.
- 4. FOB unit cost excluding royalties. SA unit cost is for the trade operations.
- 5. Includes corporate and project costs of \$26m.
- 6. Represents the underlying EBITDA margin for the mining business. It excludes the impact of third-party trading activities and in 2018 also excludes the Eskom-tied operations.

### **NICKEL – LOWER PRICES**

	Production <sup>1</sup>	Sales <sup>1</sup>	Realised price	C1 unit cost	Underlying EBITDA	Mining margin	Capex
H1 2019	19.6kt	18.6kt	563c/lb	410c/lb	\$52m	22%	\$20m
vs. H1 2018	<b>1</b> %	↓7%	<b>↓</b> 11%	<b>1</b> 8%	<b>↓</b> 41%	↓9pp	<b>1</b> 35%

Underlying EBITDA (\$m)



### **DE BEERS: WORLD LEADER IN DIAMONDS**



- 1. Represents the underlying EBITDA margin for the mining business. It excludes the impact of the sale of non-equity product by De Beers.
- 2. Typical range for trading margin.
- 3. Source: The Diamond Insight Report on 2017 data published in 2018. Polished diamond demand.
- 4. Source: The Diamond Insight Report on 2016 data published in 2017. Based on total jewellery spend in the top 4 markets of the USA, China, Japan and India.
- 5. Source: The Diamond Insight Report on 2017 data published in 2018. US diamond jewellery demand.

AngloAmerican

### A GROWING, WORLD CLASS COPPER BUSINESS

#### **Quality assets with growth**

Collahuasi



**Los Bronces** 



#### Quellaveco



High value portfolio with long term potential

# ~1 Mtpa<sup>1</sup> at ~120c/lb

#### With further growth potential from:

- existing assets
- new projects
- exploration

1. Reported basis. 100% for subsidiaries (Los Bronces and Quellaveco) and attributable share for joint operations (Collahuasi). Quellaveco: production average over first 10 years.



#### QUELLAVECO – A WORLD CLASS COPPER PROJECT

Attractive returns	Focus on execution	Successfully syndicated
Low cost with significant further potential	All key permits in place, execution benefitting from early works	
IRR	Payback	Mitsubishi subscription
> 15%	4 years	<b>\$851m</b>
Real, post-tax	From first production (2022)	Additional contingent net payment of \$100m
ROCE	Job creation	Implied NPV
<b>&gt; 20%</b>	~9,000	<b>\$2.74bn</b>
Average over first 10 years	In construction phase ~2,500 jobs in normal operation	For 100% of the project
o American		

### **WORLD LEADER IN PGMs**



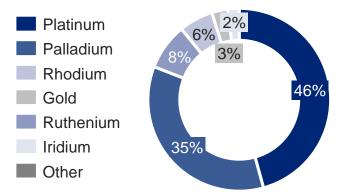
#### Amandelbult

Targeting 25% further cost reductions

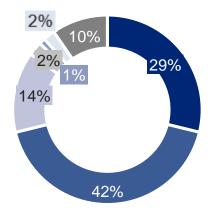
Processing

A stable ~10% margin

#### Own mined production split by volume

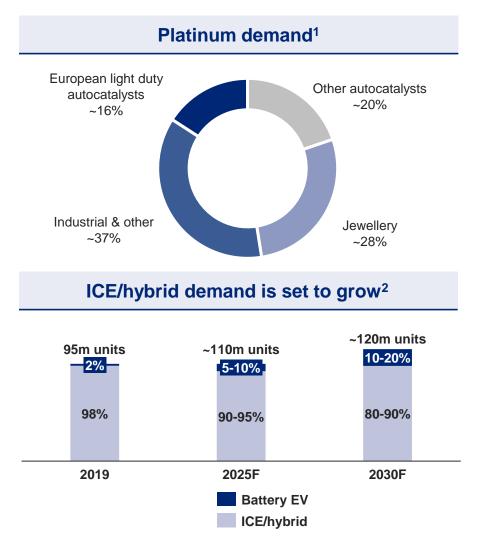


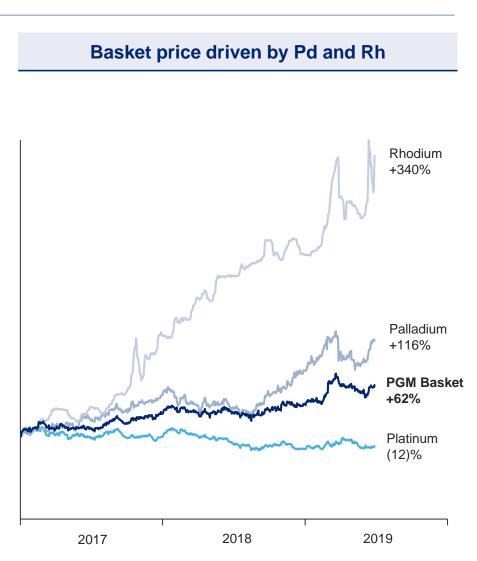
#### Own mined production split by revenue





#### **PGM**s





1. Source: Johnson Matthey. Gross basis

2. 2019: LMC automotive. 2025 and 2030 reflect Anglo American view.



### **STRUCTURAL TRENDS FAVOURING HIGH QUALITY BULKS**

Iron ore: focus on premium products

Metallurgical coal: world class operations

Kumba production

~64%Fe

of which 68% is lump

Minas-Rio production

~67%Fe

Pellet feed products

High quality portfolio

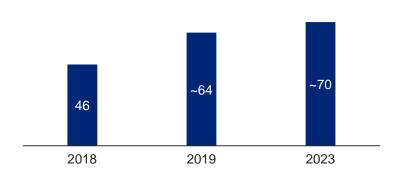
82%

Hard coking coal

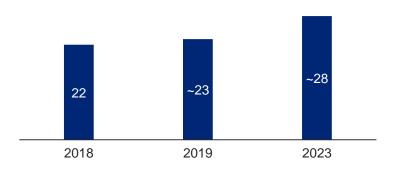
Mining EBITDA margin

**50%** 





Production (Mt)





### **PORTFOLIO OVERVIEW**

De Beers
Botswana (Debswana)
Namibia (Namdeb)
South Africa (Venetia)
Trading

#### **PGMs**

Mogalakwena

Amandelbult

Processing

Copper		
Los Bronces		
Collahuasi		
Quellaveco project		

#### **Bulks**

Minas-Rio (Iron ore)

Kumba (Iron ore)

Moranbah-Grosvenor (Met coal)

Thermal coal, Nickel & Manganese



#### **BUSINESS UNIT LEADERSHIP**

#### **De Beers – Bruce Cleaver**



#### **PGMs – Chris Griffith**



#### **Base Metals – Ruben Fernandes**



#### **Bulks – Seamus French**



#### Strategy – Duncan Wanblad

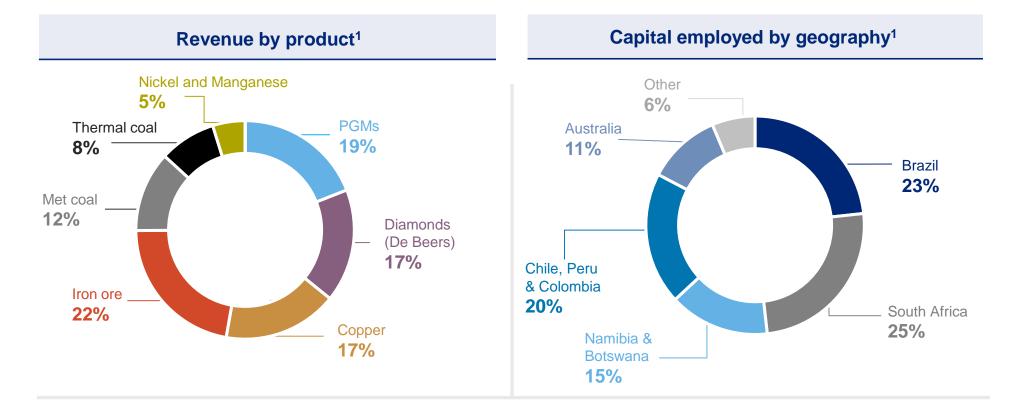


#### **Marketing – Peter Whitcutt**



AngloAmerican

### **ASSET QUALITY: DIFFERENTIATED PORTFOLIO**



Asset focused strategy

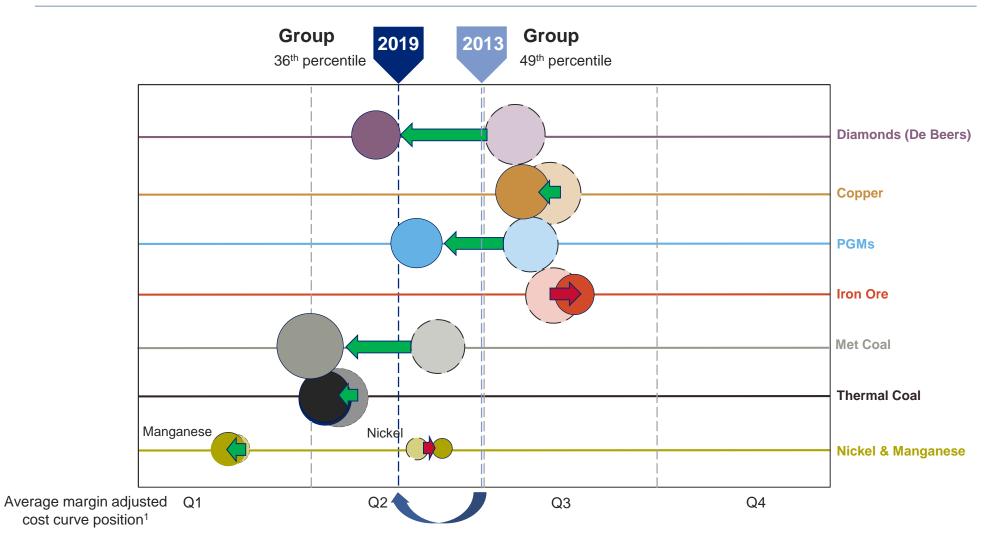
**Quality asset diversification** 

**Balanced geographic exposure** 

1. Attributable basis. Revenue by product based on business unit.



#### **OUR ASSET IMPROVEMENT JOURNEY**

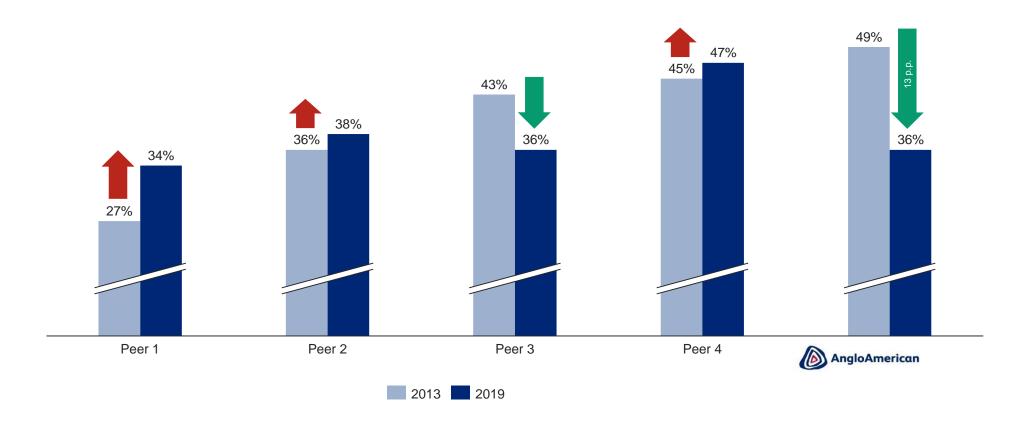


1. Estimate. Source: Wood Mackenzie; Anglo American Platinum; De Beers; CRU; McKinsey Minespans. Includes non-AA mined.

AngloAmerican

#### **LEADING MARGIN CURVE IMPROVEMENT**

Average margin adjusted cost curve position<sup>1</sup> (%)



1. Estimate. Source: Wood Mackenzie; Anglo American Platinum; De Beers; CRU; McKinsey Minespans. Includes non-AA mined.

### **HIGH QUALITY DIVERSIFIED PORTFOLIO**

~1Mt copper

~37Mct diamonds (De Beers)

~5Moz PGMs

~75Mt high grade iron ore

~30Mt premium coking coal

~30Mt export thermal coal

~75kt nickel

#8 producer currently, #5 post Quellaveco

#1 producer by value, #2 by volume

#2 producer; #1 refiner

#5 export producer (post Minas-Rio ramp up)

#3 export producer

#5 export producer

#6 producer

Source: Based on combination of internal and external estimates.



### **COMMODITY OUTLOOK**

Medium-to-long term	commodity outlook
---------------------	-------------------

Copper	Demand to remain robust in medium to long term. China remains main driver for demand. Green economy presents upside. Supply expected to tighten from 2020s.	
Diamonds	Growing disposable income drives demand. Long term, demand broadly correlated with global GDP. Supply set to roll over due to mine exhaustion.	
PGMs	ICE/hybrid demand set to grow to 2025/30, despite BEV penetration expected at ~10-20% by then. Longer term growth potential in platinum from fuel cells and industrial uses. Supply expected to be at most, stable.	
Bulks	Iron ore: Expected growth in India/developing Asia vs China slowdown. Supply consistent with prevailing dem Metallurgical coal: Demand growth expected to shift from China to India. Chinese production being managed. Thermal coal: Demand expected to be stagnant.	
Other	Nickel: Robust growth in stainless steel demand and electric vehicle battery potential. Manganese: ~10kg alloy (approx. 6kg contained manganese) used per tonne of all steels. Electric vehicle presents marginal upside.	



### **PROSPECTIVE DISTRICTS IN DIVERSIFIED GEOGRAPHIES**

# **Brazil Cu-Au**

>22,000km<sup>2</sup> granted & under application.

# Zambia Cu-Co

>10,000km<sup>2</sup> granted (Zambezi West)

# Australia Cu

>10,000km<sup>2</sup> granted & under application (Mt Isa South & Diamantina)

# **Ecuador Cu-Au**

Prime position secured, >600km<sup>2</sup>

# Angola Cu-Ni-PGE

>30,000km<sup>2</sup> under application



#### **High-Priority Near Asset Discovery Projects**

Mogalakwena/Northern Limb: PGE-Ni-Cu

Los Bronces District: Cu-Mo

**Quellaveco District: Cu-Mo** 



### **IFRS 16: NEW ACCOUNTING STANDARD FOR LEASES**

- Leases mainly corporate offices, jewellery stores & shipping; also some mining equipment
- Previously accounted for 'off-balance sheet' with lease costs taken to underlying EBITDA

#### New accounting from 2019

• Lease commitments brought onto the balance sheet, increasing net debt by:



- Lease cash costs moved from EBITDA to balance sheet, replaced by depreciation & discount unwind in P&L
- Net increase in underlying EBITDA:



H1 2019: \$0.1bn

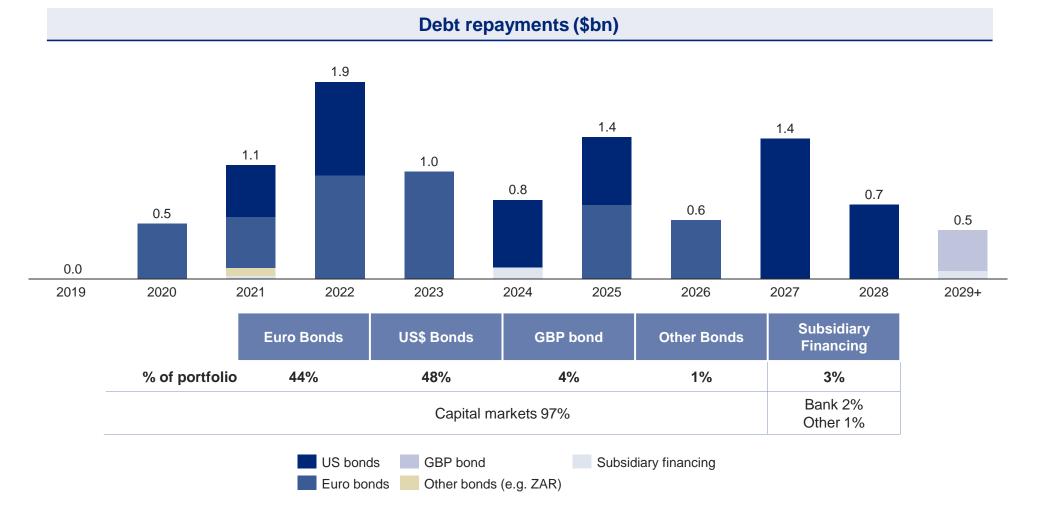
• Net impact on Underlying Earnings:



H1 2019: \$0.0bn



### **DEBT MATURITY PROFILE**







# **OPERATING MODEL, TECHNOLOGY AND INNOVATION**



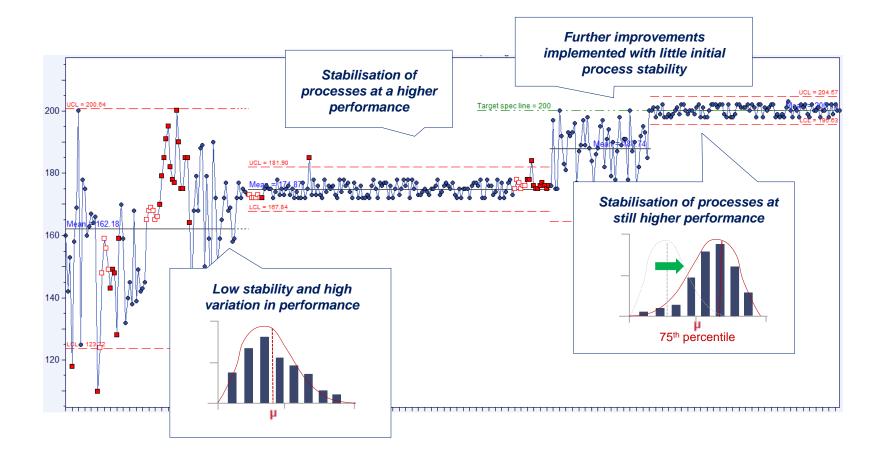
### **INNOVATION WITH PURPOSE**

	Mining is getting harder: Grades declining; societal expectations increasing
Context	Increasing scale is not a sustainable solution
	A focus on greater precision and efficiency is needed
Operating	Improved the business since 2012, through the operating model: 50% fewer assets; ~8% higher production; retained assets ~40% more productive
Model & P101	P101 is about achieving & re-setting best-in-class performance, rather than only continued incremental improvement
FutureSmart	Step-change technologies: safer; more water efficient; more energy efficient
Mining™: Technology	Digitalisation: Adding value to the entire value-chain – mining equipment, processing plants, producing the right products for the right market; data-driven decision-making; new business models
FutureSmart	Trusted Corporate Leader
Mining™:	Thriving Communities
Sustainability	Healthy Environment

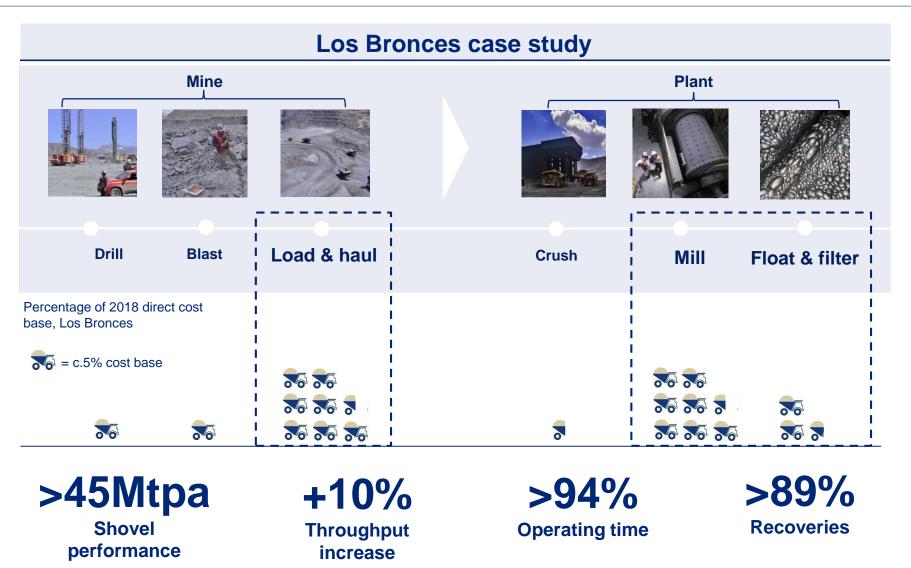


### ANGLO AMERICAN OPERATING MODEL: A DIFFERENTIATED APPROACH

Apply a manufacturing approach to mining, through organised & efficient planning & execution of work Work that is planned, scheduled and properly resourced is safer & delivers consistently & at a lower cost



### P101: FOCUSED ON THE KEY VALUE DRIVERS



### **FUTURESMART MINING**<sup>™</sup>

Technical innovation					
	Concentrated Mine™	Wat	terless Mine		
	Precision – less energy, water & capital	~75% of portfolio i	n water constrained regions		
9	Modern Mine	••• •••• ••••	lligent Mine		
	Safer & more efficient	Optimising perform	nance through digitalisation		

### **Sustainable Mining Plan**

Trusted corporate leader





Healthy environment



### **CONCENTRATED MINE™**

Challenge: Precision mining with minimal energy, water & capital intensity

#### Approach

Concentrate the Mine<sup>™</sup> concept:

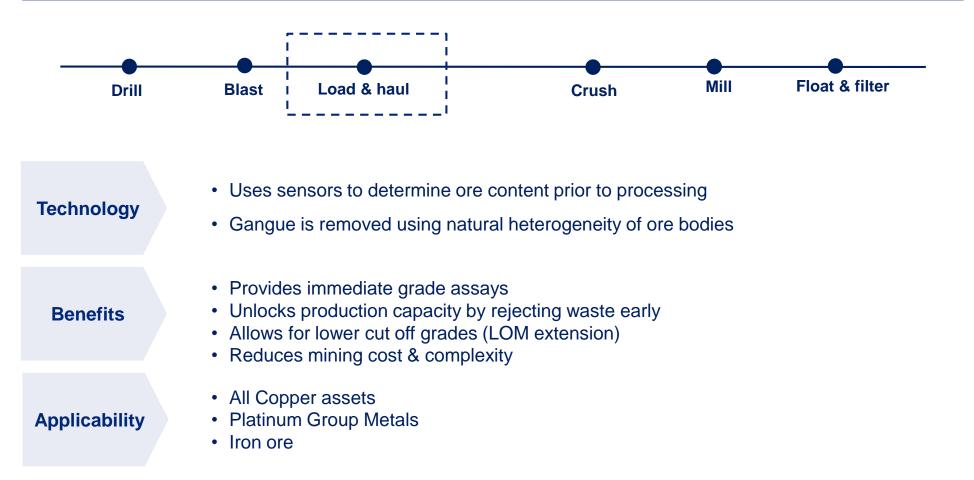
- 1. Coarse particle recovery (CPR)
- 2. Bulk sorting
- 3. Grade Engineering™
- 4. Precision classification
- 5. Ultrafine recovery
- 6. Novel leach



#### Value

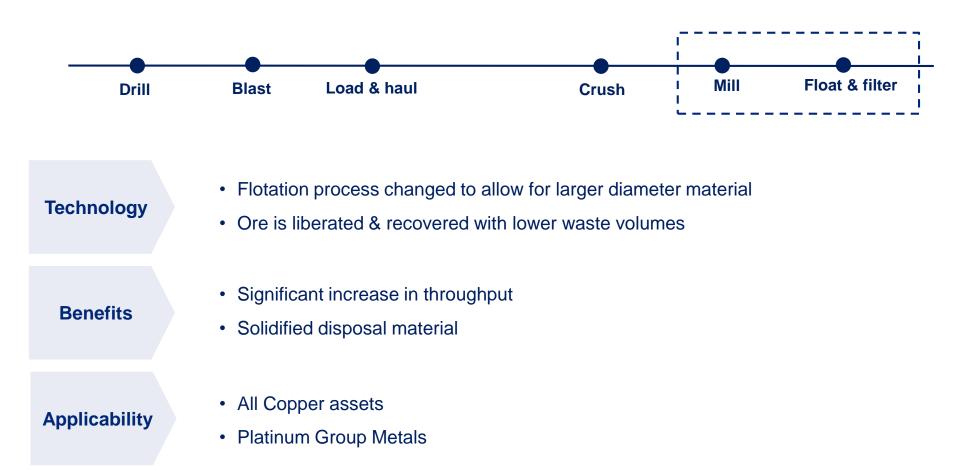
CPR: 20% increase in throughput, 85% recovery of water. Principally in Copper & PGMs Bulk sorting: 5% grade improvement, 20% more throughput. Principally in Copper, PGMs & Iron ore Ultrafine recovery: 2-4% recovery improvement Novel Leach: 60-80% recovery

### **BULK SORTING: LESS WASTE TO CONCENTRATOR**





### **COARSE PARTICLE RECOVERY: IMPROVED RECOVERIES**





# **MODERN MINE**

Challenge: Everyone goes home safely every day

#### Approach

- 1. Modernise Electro-hydraulic drills, gel explosives, no scraper-winches
- 2. Mechanise Remote operated ultralow-profile equipment
- 3. Continuous cutting Hard rock cutting machines
- 4. Swarm robotics Small self-organising intelligent machines



#### Value

Safer & more efficient working environment

Transition pathway in existing operations

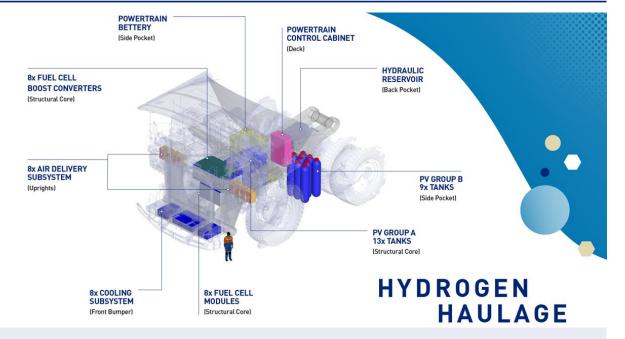


# **MODERN MINE**

#### Challenge: Transformational use of renewables

#### Approach

- 1. Oversize solar generation
- 2. Plant tariff demand arbitrage
- 3. Produce hydrogen with excess
- 4. Consume hydrogen in trucks



#### Value

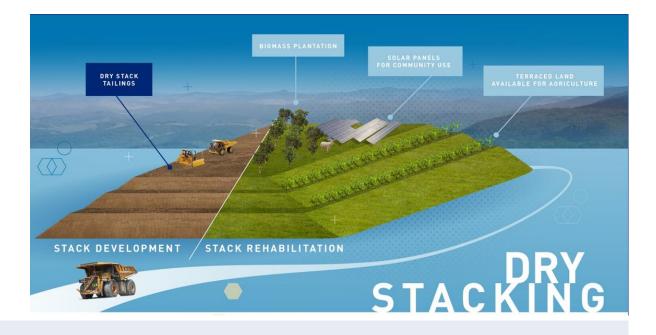
- 30% reduction in GHG emissions at plant
- 5% increase in truck power with 100% reduction in GHG emissions
- Energy security and price resilience
- Move to hydrogen economy & next generation mining vehicles
- Host community participation

# WATERLESS MINE<sup>1</sup>

Challenge: ~75% of portfolio located in water constrained regions

#### Approach

- 1. Coarse particle recovery
- 2. Dry stacking
- 3. Dry processing



#### Value

Reduced footprint

50% reduction in water intensity

Reduced risk posed by tailings storage facilities

Removal of expansion constraints

1.



### WATERLESS MINE<sup>1</sup>

#### Challenge: Create a dry stable stack from wet tails & ultimately eliminate wet tailings

#### Approach – reduce risk

Reduce risk

- 1. Fibre-optic sensing
- 2. Satellite monitoring

#### Approach – dry stack

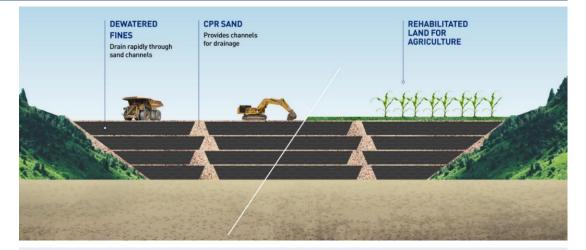
- 1. Engineer & construct vs placement
- 2. Hydraulically place CPR sand with conventional thickened tailings
- 3. Creates drainage pathways throughout

#### Approach – eliminate wet tailings

- 1. Coarse particle recovery
- 2. Unsaturated stacking
- 3. Dry processing

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1. Waterless mine is a closed loop strategy where fresh water intake is eliminated from our mining processes through water recycling and reuse.



#### Value

**Reduced footprint** 

Water recovery for additional production Faster transition to a more stable engineered tailings stack Enables future repurposing for land use Engineered to minimize potential liquefaction risk Low opex – comparable to wet tailings Increased water recovery >80% for similar cost

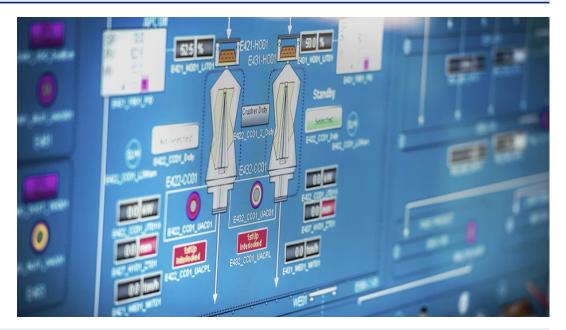
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# **INTELLIGENT MINE**

#### Challenge: Predict & shape operational outcomes

#### Approach

- 1. Predictive maintenance using digital twins
- 2. Artificial intelligence for exploration & geosciences
- 3. Advanced process control using fibreoptic sensors



#### Value

2% recovery/yield5% process throughput30% process stability5% energy efficiency





# FUTURESMART MINING<sup>™</sup>: SUSTAINABLE MINING PLAN

### **Environment, Social & Governance**



Real Mining. Real People. Real Difference.

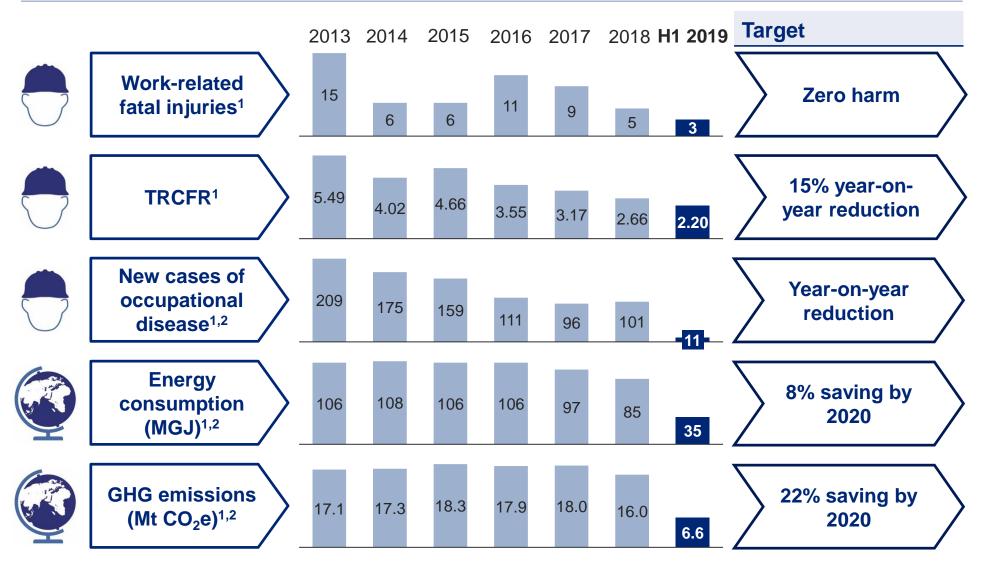
### **FUTURESMART MINING™: SUSTAINABLE MINING PLAN**

Our Sustainability approach is **integral to FutureSmart Mining**<sup>™</sup>: to innovate & deliver step change results across the entire mining value chain.

It is centred around three Global Sustainability Pillars & nine Global Stretch Goals:



### **OUR SUSTAINABILITY PERFORMANCE**

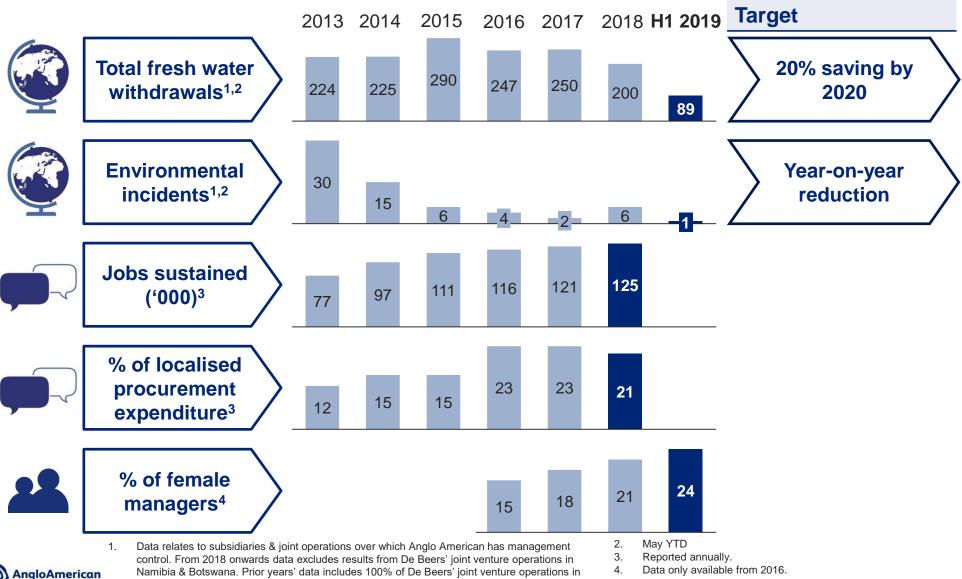


AngloAmerican

Data relates to subsidiaries & joint operations over which Anglo American has management control. From 2018 onwards data excludes results from De Beers' joint venture operations in Namibia & Botswana. Prior years' data includes 100% of De Beers' joint venture operations in Namibia & Botswana.
 May YTD.

### **OUR SUSTAINABILITY PERFORMANCE**

Namibia & Botswana.



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### SAFETY, HEALTH AND ENVIRONMENT

#### **Safety - Fatalities**

**Moranbah North** 20 February – mobile equipment collision

Los Bronces 19 March – electric shock

**Quellaveco** 25 June – mobile equipment, loss of control of vehicle

#### Safety – Learning from high potential incidents

Top three categories of high potential incidents:

- Mobile Equipment
- Falling or dropped objects
- Fire or explosion

High potential incidents are thoroughly investigated with learnings & actions shared portfolio-wide

#### Health – New cases of occupational disease

**Musculoskeletal Disorder** (7) – actions taken at Business Unit level to understand and mitigate causes and risks

**Work-related stress** (3) – Employee wellness framework being rolled out. Data collection relating to employee assistance programmes is being improved

#### **Environment (Level 3-5 Incidents)**

**Unki** – At Unki mine in Zimbabwe a pollution control dam overflowed into a nearby river. Actions from the investigation process are now being implemented globally



### **THERMAL COAL**

#### **Coal demand**

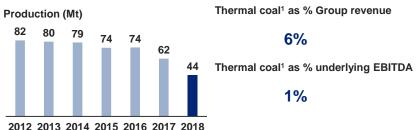
Thermal coal makes up ~38% of the global electricity mix

IEA & other forecasts see a significant role for thermal coal in the global energy mix at least to 2030

Access to reliable & affordable electricity plays a critical role in the alleviation of poverty and promotion of growth in developing countries

#### **Our Production & Capex Profile**

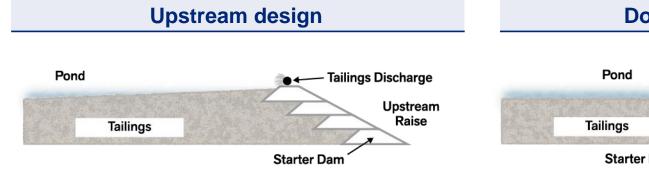
We have reduced our thermal coal production by 50% since 2012:



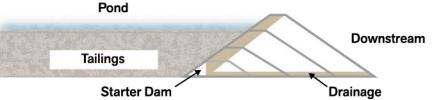
#### Doing the right thing

Responsible stewardship	Selling our coal assets would not alleviate the issue that coal is required & would be taken out of the ground, potentially by someone without our values, environmental standards & care for communities
Informing policy	We engage in policy discussions to develop local carbon pricing mechanisms, including in South Africa
Investing in innovation	Through FutureSmart Mining <sup>™</sup> , we aim to cut our operational GHG emissions by 30% by 2030 & have a plan for a carbon neutral mine

### **TAILINGS DAMS SUMMARY**



#### Downstream design



The upstream method starts with the construction of a starter dam. Tailings will naturally separate so that coarse material settles closest to the starter dam, while liquid and fine material settles furthest away. As the level of the materials rises, the crest of the dam is raised "upstream", using the support of the previous dam raise and the tailings beach area. Its stability is dependent on the in situ strength of the tailings material itself.

This method is more suitable in dry climates with limited seismic activity, low deposition rates, and flat topography.

The downstream method begins in most cases with a starter dam that has a low permeability zone or liner to control & minimise water loss. In some cases it also serves to initially store water for start-up of the plant. Tailings are placed behind the dam & the embankment is raised by building the new wall on the downstream slope of the previous section. The crest of the dam thereby moves "downstream" or away from the starter dam. A liner or membrane can be used on the upstream slope of the dam to prevent erosion & limit infiltrations.

Downstream tailings dams require more material to build than upstream constructed dams, but are considered more stable, making them better suited for areas with seismic activity & more intense rainfall or water management requirements.



### **TAILINGS DAMS IN OUR PORTFOLIO**

#### **Southern Africa**

Our dams in southern Africa are well suited due to low rates of rise, sunny & dry environment, with high evaporation rates, flat topography & non-seismic geology.

### **South America**

We do not have any dams built by the upstream method of construction in South America.

Due to seismic risk in Chile & Peru and the wet tropical conditions in Brazil & Colombia, we use other, more robust, designs.

#### **Minas-Rio**

The Minas-Rio dam is designed to retain water, one of the most robust designs for tailings storage. It is built with selected imported earthfill material, and selected granular materials for drainage & filter zones, making it best-in-class.

The tailings dam has been built and is in use. We obtained an 'installation licence' to construct the first dam raise for the next stage of the mine & we are currently completing these works. As required in all dam raises, the structure will be inspected by the Brazilian authorities when complete, as a prerequisite to grant of the 'operating licence' to the increased capacity.

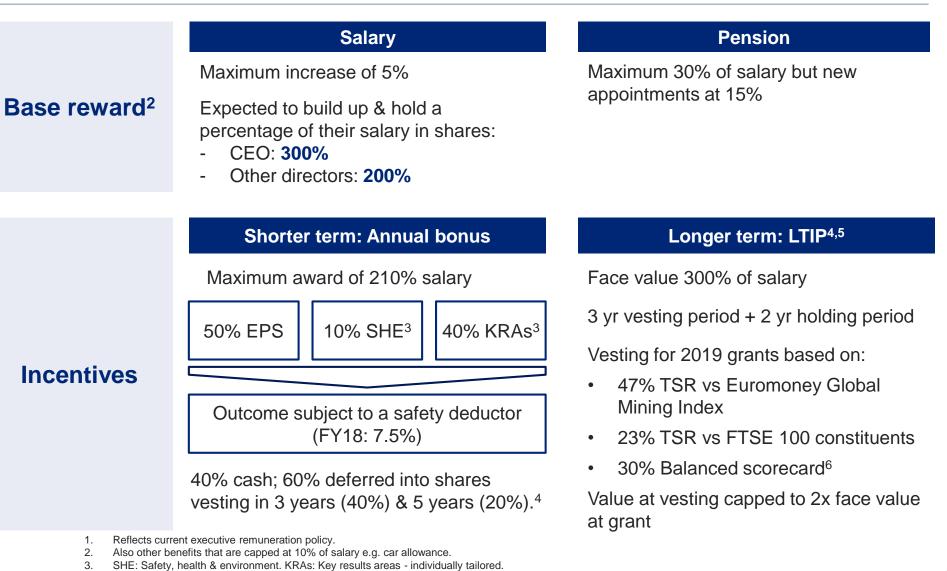
We are able to continue mining & processing for the remainder of 2019, at current mining rates, with our existing tailings licence.



### **TAILINGS DAMS MANAGEMENT PROCESS**

Our Group Technical Standard exceeds regulatory requirements				
Design & change management	<ul> <li>All tailings storage facilities (TSFs) are built following established minimum design criteria aimed at ensuring structural integrity.</li> <li>Change management is delivered to the highest standards aimed at ensuring the structural integrity is preserved over time.</li> <li>All TSFs have a Consequence Classification of Structure (CCS) rating based on the potential hazard evaluation.</li> </ul>			
Maintenance & monitoring	<ul> <li>'Major' or 'High' CCS facilities have a Competent Person in charge.</li> <li>Each TSF has an Engineer of Record (EoR), providing continuous support from initial design &amp; construction, to monitoring and support.</li> <li>Dedicated team of Group level Engineering specialists provide oversight, strategic direction &amp; technical support. A review of tailings facilities at non-managed operations is done on a rotational basis approximately every three years.</li> </ul>			
Inspections, audits & reviews	<ul> <li>Local site-based operational personnel conduct daily / weekly / biweekly inspections.</li> <li>EoR conducts formal dam safety reviews at all managed sites on a quarterly, semi-annual &amp; / or annual basis.</li> <li>A technical review panel conducts an independent review of critical facilities at least once per year.</li> </ul>			

### EXECUTIVE REMUNERATION<sup>1</sup>



Subject to malus and clawback.

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LTIP: Long term incentive plan.

Vesting for 2019 grants based on: ROCE 10%; cumulative attributable free cash flow 10%; water management standard implementation 7%; employee well-being 3%.





### **INVESTOR RELATIONS**

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