RioTinto

Notice to ASX

2023 Half Year Results Presentation

26 July 2023

The Rio Tinto 2023 half year results presentation will be given at 9.30am (BST) / 6.30pm (AEST) today by Rio Tinto Chief Executive Jakob Stausholm, and Chief Financial Officer Peter Cunningham. The presentation slides are attached and also available at https://www.riotinto.com/en/invest/financial-news-performance/results.

The live webcast will be available at https://www.riotinto.com/en/invest/financial-news-performance/results.

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This announcement is authorised for release to the market by Steve Allen, Rio Tinto's Group Company Secretary.



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Production Targets

The 500kpta copper and 350kozpa gold target (stated as recoverable metal) for the Oyu Tolgoi underground and open pit mines for the years 2028 to 2036 referenced in slides 14 and 21 is underpinned 13% by Proved Ore Reserves and 87% by Probable Ore Reserves. This production target has been scheduled from mine designs based on the Oyu Tolgoi Feasibility Study 2020 (OTFS20), which are not materially different to current mine designs, by Competent Persons in accordance with the requirements of the Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves, 2012 Edition (the JORC code).

The production profiles for the Oyu Tolgoi underground and open pit mines shown in slide 43 are underpinned 41% by Proved Ore Reserves and 59% by Probable Ore Reserves for 2023 to 2027, and 10% by Proved Ore Reserves and 90% by Probable Ore Reserves for 2028 to 2036. The life of mine production profile shown in slide 43 is underpinned 22% by Proved Ore Reserves and 78% by Probable Ore Reserves for 2023 to 2051. The financial forecasts shown in slide 44 are based on production targets which are underpinned 43% by Proved Ore Reserves and 57% by Probable Ore Reserves for 2023 to 2025, 26% by Proved Ore Reserves and 74% by Probable Ore Reserves for 2026 to 2029, and 9% by Proved Ore Reserves and 91% by Probable Ore Reserves for 2030 to 2033. These production targets are stated as recovered metal and have been scheduled from current mine designs for the Oyu Tolgoi underground and open pit mines by Competent Persons in accordance with the requirements of the Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves, 2012 Edition (The JORC code).

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inability to attract and retain requisite skilled people; declines in commodity prices and adverse exchange rate movements; an inability to raise sufficient funds for capital investment; inadequate estimates of ore resources and reserves; delays or overruns of large and complex projects; changes in tax regulation; safety incidents or major hazard events; cyber breaches; physical impacts from climate change; the impacts of water scarcity; natural disasters; an inability to successfully manage the closure, reclamation and rehabilitation of sites; the impacts of civil unrest; the impacts of the Ukraine conflict; breaches of Rio Tinto's policies, standard and procedures, laws or regulations; trade tensions between the world's major economies; increasing societal and investor expectations, in particular with regard to environmental, social and governance considerations; the impacts of technological advancements; and such other risks identified in Rio Tinto's most recent Annual Report and accounts in Australia and the United Kingdom and the most recent Annual Report on Form 20-F filed with the United States Securities and Exchange Commission (the "SEC") or Form 6-Ks furnished to, or filed with, the SEC. Forward-looking statements should, therefore, be construed in light of such risk factors and undue reliance should not be placed on forwardlooking statements. These forward-looking statements speak only as of the date of this report. Rio Tinto expressly disclaims any obligation or undertaking (except as required by applicable law, the UK Listing Rules, the Disclosure Guidance and Transparency Rules of the Financial Conduct Authority and the Listing Rules of the Australian Securities Exchange) to release publicly any updates or revisions to any forward-looking statement contained herein to reflect any change in Rio Tinto's expectations with regard thereto or any change in events, conditions or circumstances on which any such statement is based.

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Strong financials and consistent progress

Production (CuEq)¹

5%

2,317kt in H1 2023

Underlying ROCE

20%

Underlying EBITDA

\$11.7 bn

Underlying earnings

\$5.7 bn

Underlying EBITDA margin at 42%

Free cash flow

\$3.8 bn

Dividends

177 US cps

Equal to \$2.9 bn



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Investing in the health of our business...

Safety remains our top priority

Improving asset health

Building a thriving culture

Strengthening our social licence

















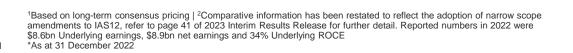




Robust results

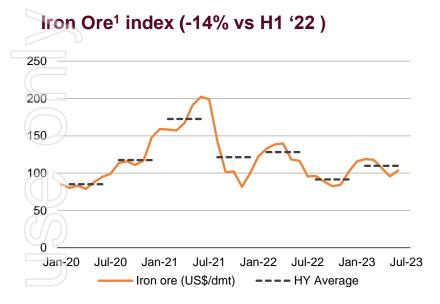
\$bn, except where stated	H1 2023	H1 2022	Comparison
Production (CuEq kt) ¹	2,317	2,200	+5%
Consolidated sales revenue	26.7	29.8	-10%
Underlying EBITDA	11.7	15.6	-25%
Underlying earnings ²	5.7	8.7	-34%
Net earnings ²	5.1	8.9	-43%
Underlying ROCE ²	20%	34%	-12 pp
Cash flow from operations	7.0	10.5	-33%
Capital expenditure	3.0	3.1	-3%
Free cash flow	3.8	7.1	-47%
Total dividend declared	2.9	4.3	-34%
Total dividend per share (\$)	1.77	2.67	-34%
Net debt	4.4	4.2*	+5%

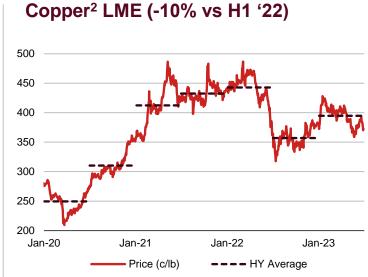


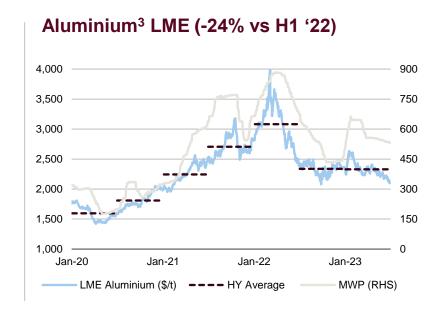




Commodity prices recovering from low point in H2 but still down materially year on year







Realised pricing	H1 '22	H2 '22	H1 '23	Delta (vs H1 '22)
Iron ore (\$/dmt)	121	94	107	-11%
Copper (c/lb)	447	362	396	-11%

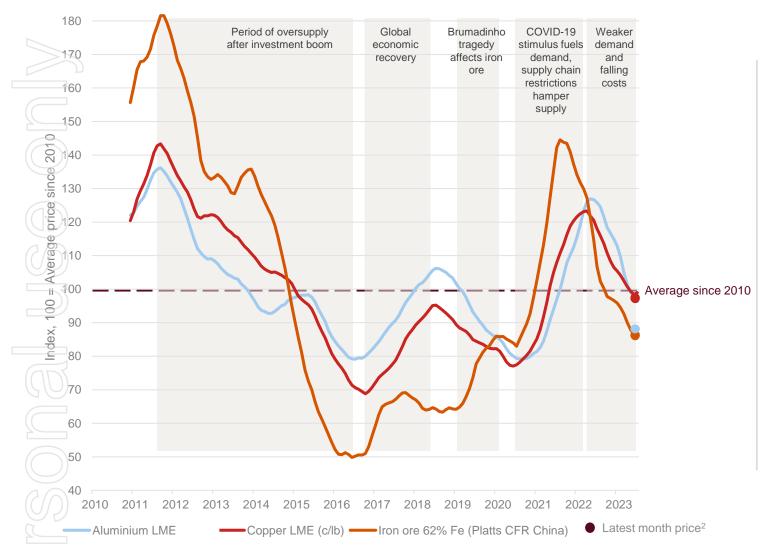
Realised pricing	H1 '22	H2 '22	H1 '23	Delta (vs H1 '22)			
Aluminium (\$/t) ⁴	3,808	2,870	2,866	-25%			
Aluminium raw materials \$/t index price							
Coal tar pitch	1,103	1,476	1,399	+27%			
Petroleum coke	695	719	636	-8%			
Coal tar pitch	1,103	1,476	1,399				

Monthly average of Platts CFR index for 62% iron fines converted to FOB basis | 2Average LME price | 3Average LME price. MWP = US Midwest premium | 4LME plus all-in premiums (product and market) | YoY = change in average price during first half compared to previous half year. Source: Rio Tinto Market Analysis, LME, S&P Global, CRU NA



Our major commodities: trading below their real-term 2010 average

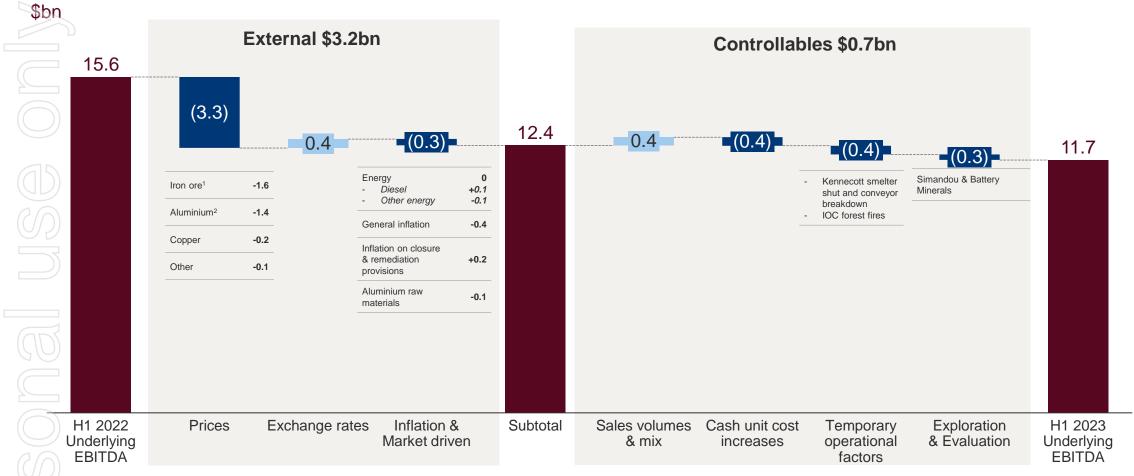
Commodity prices (real \$2023, 12 months moving average)¹



- Commodity prices falling for over a year as commodity intensive GDP growth and supply bottlenecks fade
- Currently trading below long-term levels in real terms
- Spot prices mostly trading above the lows of the second half of 2022, with falling input costs impacting aluminium

Pricing remains the biggest driver – rate of cost inflation slowing but still a headwind

Underlying EBITDA



¹Iron ore includes Pilbara, portside trading and IOC | ²Aluminium includes alumina and bauxite Note: Financial figures are rounded to the nearest million, hence small differences may result in the totals

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Cash conversion impacted by working capital movements

\$bn, except where stated	H1 2023	H1 2022	Comparison
Underlying EBITDA	11.7	15.6	-25%
Tax paid	(2.4)	(3.8)	-37%
Working capital outflow	(0.9)	(0.4)	+125%
EAUs ¹ (EBITDA net of dividends)	(0.8)	(0.4)	+100%
Other	(0.6)	(0.5)	+20%
Net cash generated from operating activities	7.0	10.4	-33%
Capital expenditure (net)	(3.0)	(3.1)	-3%
Lease principal payments	(0.2)	(0.2)	-%
Free Cash Flow	3.8	7.1	-46%
Cash conversion ²	60%	67%	-7 pp

Working capital outflow of \$0.9bn in H1 2023 reflected:

- Build in blasted and mine stocks in the Pilbara to support system health
- Seasonally higher spares and stores
- Lower payables due to timing of spend and normal volatility in amounts due to JV partners and employees

Lower dividends from Escondida

TEAU = Equity Accounted Unit | 2Cash conversion is Net cash generated from operating activities divided by underlying EBITDA

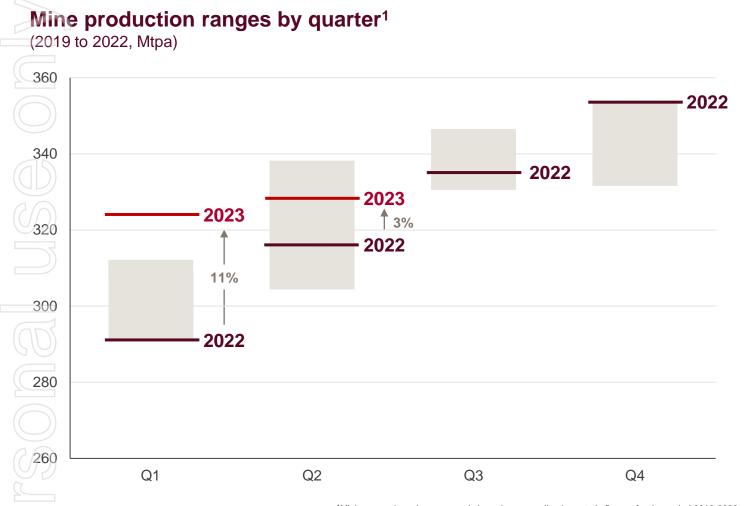


Pilbara Iron Ore, Canadian smelters and Oyu Tolgoi driving our momentum

\$bn, except where stated	Iron Ore Sustained operational improvement vs H1	22	Aluminium Kitimat ramping up vs H1 22	Copper Unlocking growth vs H1 22	Minerals Challenging market conditions vs H1 22
Production	160.5mt ¹ +	7%	1.6mt ² +9%	0.3mt ³ -1%	0.6mt ⁴ +4%
Underlying EBITDA	9.8 -6	6%	1.1 -60%	1.1 -29%	0.7 -45%
EBITDA margin ^{5,6}	69% -1	рр	21% -20 pp	43% -11 pp	30% -10 pp
Capex	1.1 -2	6%	0.6 -4%	0.9 +26%	0.3 +13%
Free cash flow	5.6 -20	0%	0.2 -89%	(0.5) -45%	(0.2) -165%
ROCE ⁶	63% -9	рр	4% -16 pp	4% -6 pp	13% -8 pp
Performance	 Five quarters of improved operational performance Gudai-Darri at full capacity Shipments guidance now at upper half of range With rising second half volume SP10 expected to be a larger proportion of shipments (10% first half) Construction of Western Rangin line with schedule 	in	 Metal volumes +9% versus first half 2022 as Kitimat ramps up to full capacity by year end Price declines drive margins down, lower raw material costs to flow through in second half Upgrading quality of highly competitive Canadian smelters with AP60 expansion, Alma VAP, Arvida recycling capacity and formation of Matalco recycling joint venture 	 Margins remain robust despite 10% decline in LME copper Achieved sustainable production from Oyu Tolgoi underground Investing in Kennecott's future with smelter rebuild and underground Geotechnical challenges and unplanned concentrator maintenance at Escondida 	 IOC: forest fires impact production, lower prices Weaker market conditions for Iron & Titanium and Boron businesses Higher spending on Rincon 3000 starter plant with valuable insights gained and carried over to design and engineering of full-scale project



Continued momentum in our Pilbara Iron Ore business



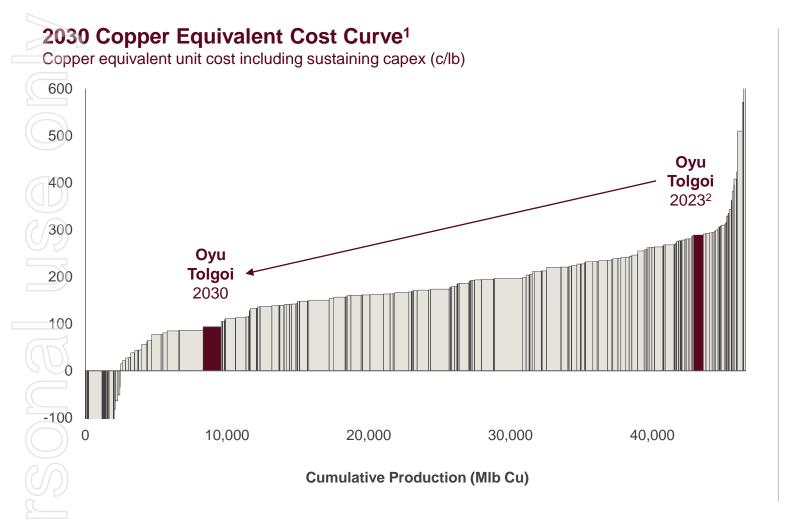
- 2023 shipments guidance at upper half of 320 to 335Mt range
- Ongoing operational improvements, and uplift from the Safe Production System
- SP10 was 10% of total shipments² in H1: expected to be a higher share in H2
- H1 unit costs \$21.2 per tonne, down 6% YoY
- Management of environmental footprint, cultural heritage and engagement with Traditional Owners integral to the way we work
- Progressing approvals for next tranche of replacement mines, with Rhodes Ridge order of magnitude study expected in 2023
- Continued focus on asset reliability and pit health

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¹Minimum and maximum range is based on annualised quarterly figures for the period 2019-2022

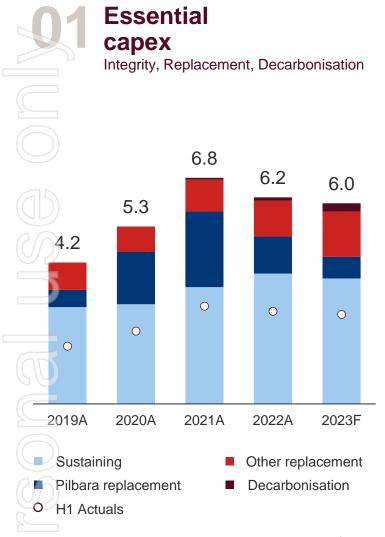
Oyu Tolgoi expected to yield significant free cash flow in 2nd half of decade

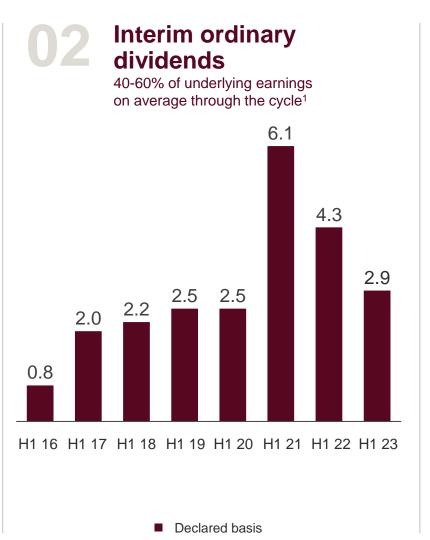


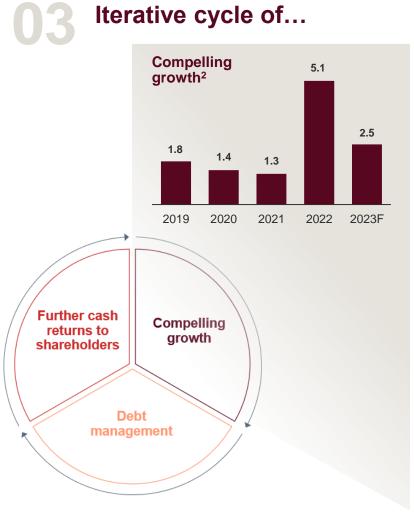
- Oyu Tolgoi's operating assets of \$14.3 billion represented ~25% of the Group total at 30 June 2023
- Sustainable underground production achieved in March 2023
- More than 80% of growth capital already spent
- Expected to ramp up to 500kt per annum average copper production from 2028-36³
- Set to become the world's 4th largest copper mine by 2030⁴

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We will continue to invest consistently through the cycle

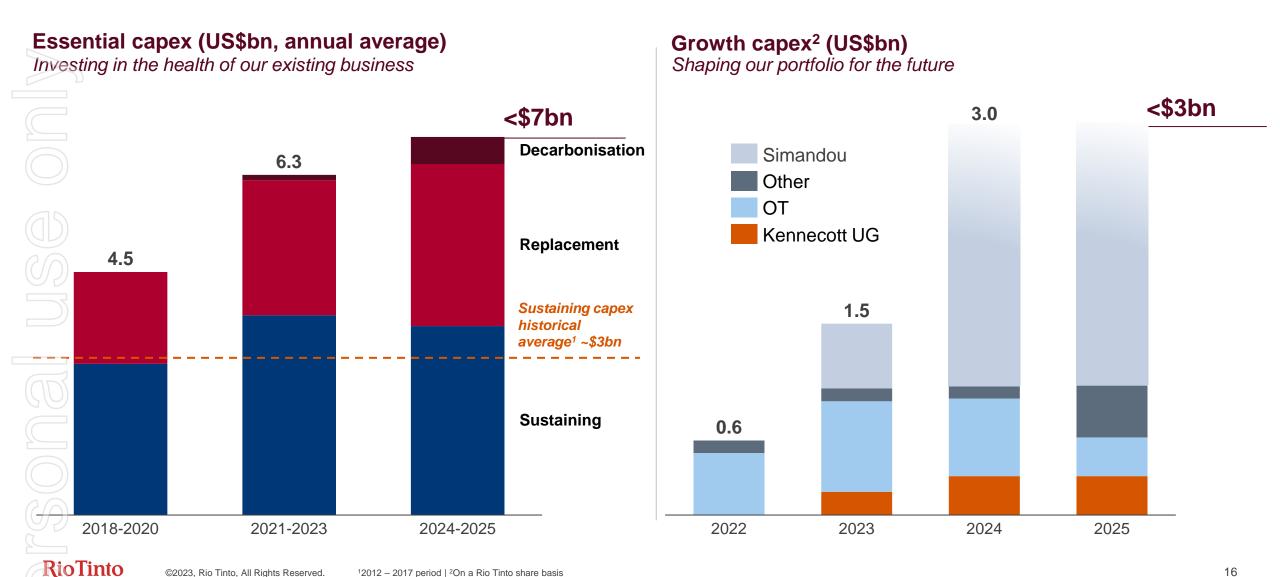






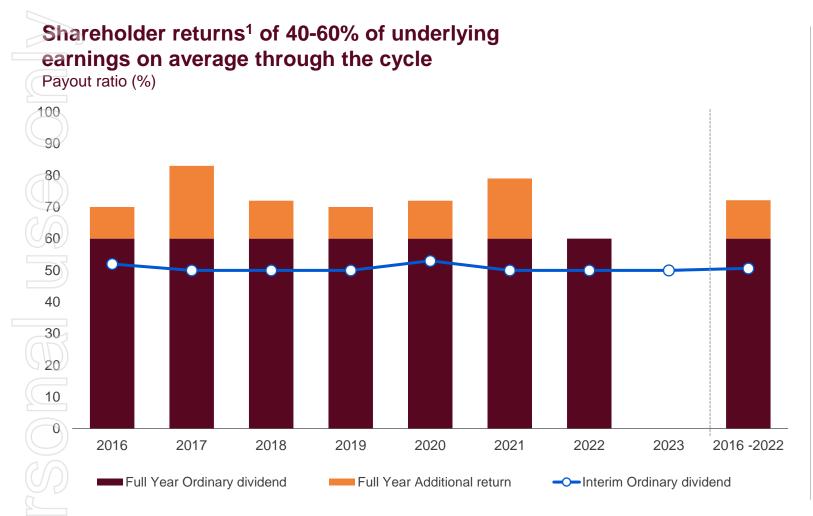


Disciplined investing for asset health, growth and decarbonisation



16 ©2023, Rio Tinto, All Rights Reserved. 12012 - 2017 period | 2On a Rio Tinto share basis

Attractive dividends remain paramount



- \$2.9bn of dividends declared for H1
- 50% payout, in line with our policy and with the intention that the balance between interim and final dividend be weighted to the final
- Consistent seven-year track record of shareholder returns
 - 50% average payout on interim ordinary dividend over the past eight years



Gathering momentum with a clear pathway

Finding better ways to provide the materials the world needs



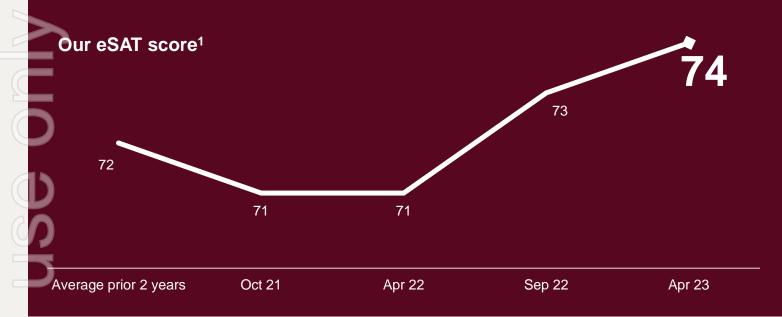
Care

Courage

Curiosity



Executing our strategy









- Pilbara7% production uplift YoY
- Much to do elsewhere to achieve operating excellence
- Safe Production System deployment on schedule
- Building a values-based performance culture with care, courage and curiosity as the foundations
- Improving our employee engagement in particular at sites where SPS is deployed

Our four objectives in action Oyu Tolgoi – a world leading copper business



Entering an exciting phase as the underground ramps up



Best in class water consumption rates with continuous improvement



AIFR = 0.20¹
One of the safest operations in Rio Tinto and the mining industry



Ramp-up on track to deliver 500kt per annum from 2028 – 2036²

Strong pipeline of options to sustain and grow



Partnering for prosperity

1May 2023 year to date | 2See supporting references for the 500kpta copper target on slide 2



Finding better ways to provide the materials the world needs

Growing our North American aluminium business







¹AP60 technology generates approximately 1.6 tonnes of CO₂e per tonne of aluminium produced, compared to approximately 3.2 tonnes of CO₂e per tonne of aluminium for the Arvida smelter's current technology, and over 12 tonnes of CO₂e per tonne of aluminium for the industry average



Global decarbonisation portfolio accelerating – near-term delivery remains a challenge

BlueSmelting™ at RTIT



- Ilmenite reduction technology
- 95% less GHG emissions potential from BlueSmelting™
- First production delivered in July 2023 from demonstration plant

Boron biofuel



- First open pit mine to convert to renewable diesel
- 45,000 tonnes CO₂
 equivalent per year reduction
- 9,600 cars comparable reduction

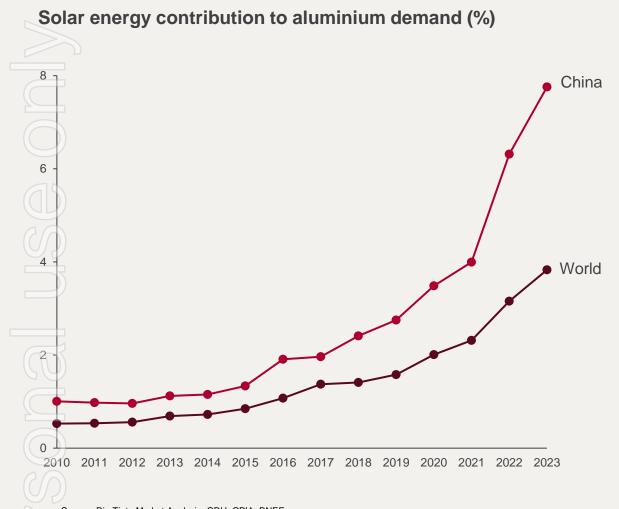
MoU with China Baowu

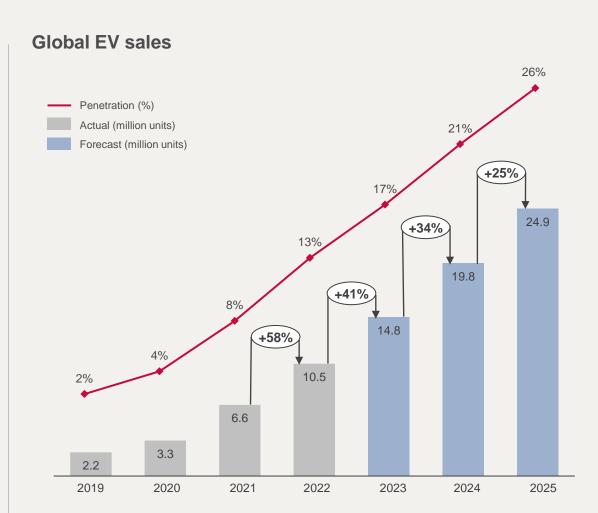


- Working together to help decarbonise the steel value chain
- Research, build and demonstrate pilotscale electric melter
- Study options for low-carbon iron in Western Australia



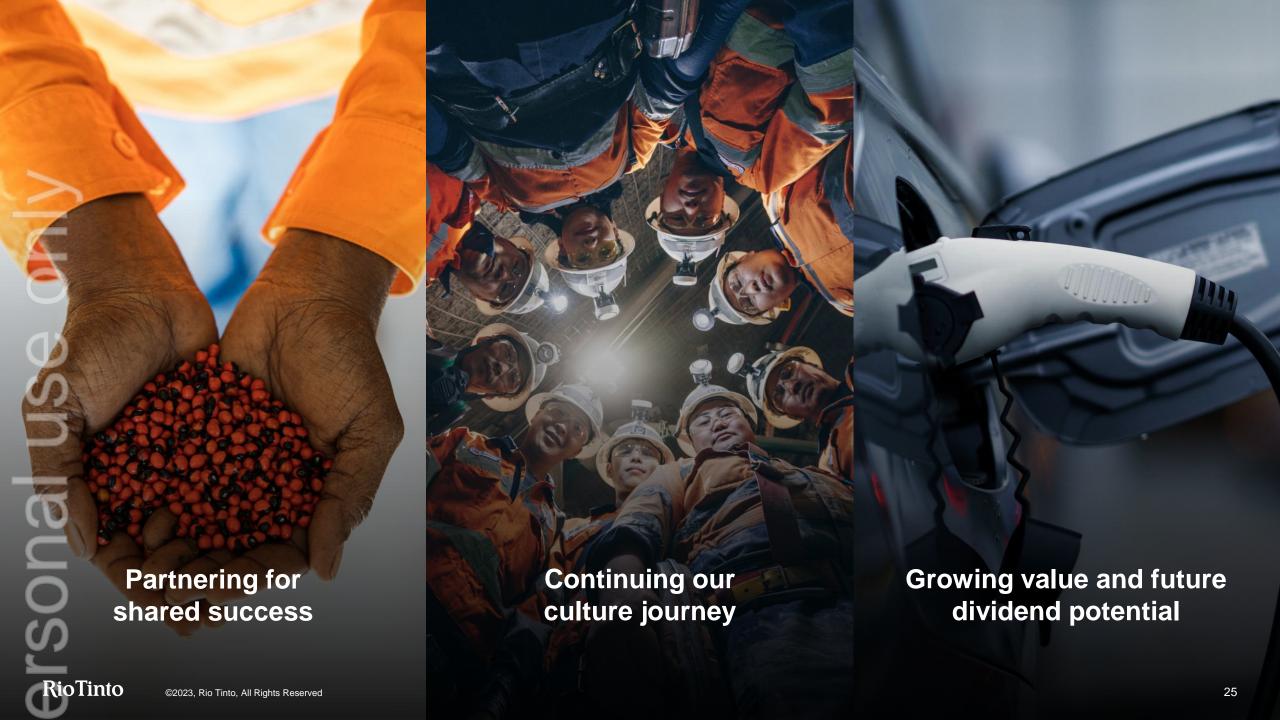
Decarbonisation to drive demand for metals



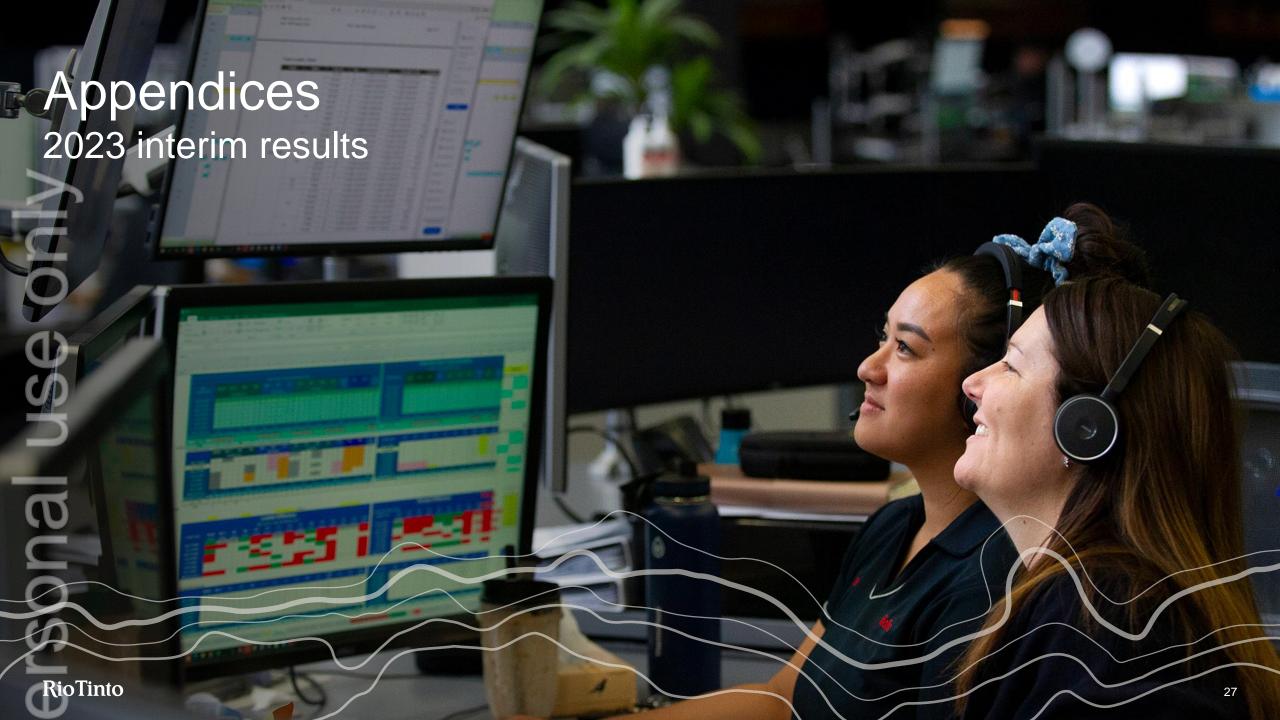


Source: Rio Tinto Market Analysis, CRU, CPIA, BNEF

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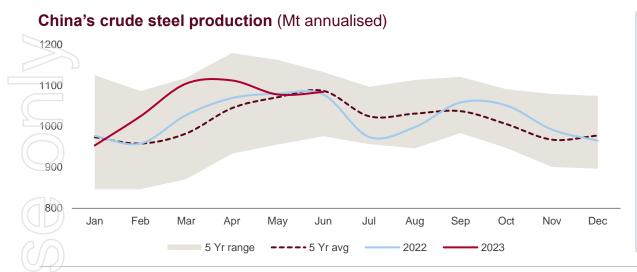


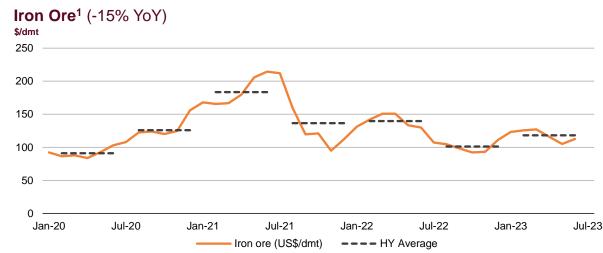
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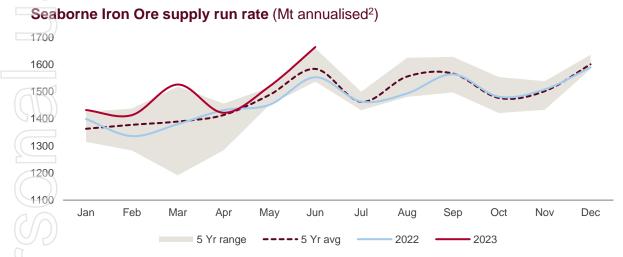


Markets

Strong Chinese iron ore imports absorbing supply gains







- Although China's steel demand recovery encountered headwinds, crude steel production increased by 3% YoY during H1
- Disruptions to scrap processing and availability, compounded by electricity shortages, helped lift China's pig iron production by 5% YoY during H1
- This absorbed the 6% YoY increase in China's H1 iron ore imports, while domestic iron ore supply continues to experience significant safety and environmental challenges
- Meanwhile, Chinese steel exports trended up sharply towards 100 million tonne annualised run-rates, last observed in 2016
- Seaborne iron ore supply performed strongly during the first half of the year, with June shipments from Australia and Brazil estimated at or close to all-time highs
- Total iron ore exports rose 5% YoY in H1, comprising a 2.5% increase from the major producers, >75% YoY rise of India's shipments, and 10% YoY gains from Canada



Price support for our commodities compared to H2

Aluminium¹ (-24% YoY)



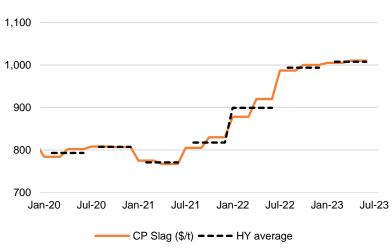
- Global aluminium demand has been resilient in H1, YTD +2% YoY, with growth in automotive and solar markets offsetting weaker demand from the construction sector
- Aluminium production has been stable, as smelting capacity has remained offline in Europe and idle capacity in China has only restarted gradually, resulting in 1% YTD global growth
- Global reported inventories are flat YTD and reported stocks in China have remained low. China imported 0.4Mt of primary aluminium in Jan-May 2023, averting a decline in inventories to unsustainably low levels

Copper² (-10% YoY)



- Price rebound from H2 2022, although still lower than last year as global macro uncertainty dampens sentiment
- China demand growth positive despite downturn in construction, driven by electric vehicles and renewable sectors. Demand in US and EU was resilient in Q1 but has softened thereafter
- Mine supply disruptions in Q1 limited material availability; Chile's production YTD remains weak, partially offset by higher production from Peru
- Inventories have fallen sharply after China's seasonal build-up in Q1 (down 50% YoY in June)

TiO₂ (chloride slag) (+12% YoY)



- TiO₂ feedstock prices relatively stable through H1 despite deteriorating market conditions further downstream
- Demand for TiO₂ products has continued to be impacted by weakening macro environment over the first half with construction indicators down across major TiO₂ consuming regions
- Sales volume declines for pigment producers and paint manufacturers in North America and Europe reported in Q1



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Sther financials

Balance sheet remains strong

Disciplined approach is unchanged, we intend to maintain it throughout the cycle

Balance sheet strength is an asset. Offers resilience and creates optionality

Principles-based approach to anchor balance sheet around a single A credit rating

Moody's: A2 (stable), S&P: A (stable)

No net debt target

Our financial strength allows us to simultaneously:

Reinvest for growth (up to \$10bn per year in total capex in 2024 and 2025 depending on opportunities)

Accelerate our own decarbonisation

Continue to pay attractive dividends in line with our policy (consistent seven-year track record)

\$bn	2023	2022	2021
Net cash generated from operating activities	7.0	16.1	25.3
Capital expenditure	3.0	6.8	7.4
Dividends paid	3.7	11.7	15.4
Net (debt)/cash	(4.4)	(4.2)	1.6
Cash and liquid resources	10.4	8.8	15.2
Revolving credit facility (5 year maturity)	7.5	7.5	7.5
Net debt (cash)/Underlying EBITDA	0.19x	0.16x	-0.04x
Gearing	8%	7%	-3%
Weighted average debt maturity	12 yrs	11 yrs	11 yrs



Prices recovering from low point in H2 but still down materially year on year

Underlying EBITDA H1 2023 vs H1 2022 15,597 (3,295)43 (174)(206)(1,355)(1,603)Aluminium² Iron ore Copper Industrial Minerals Other, net



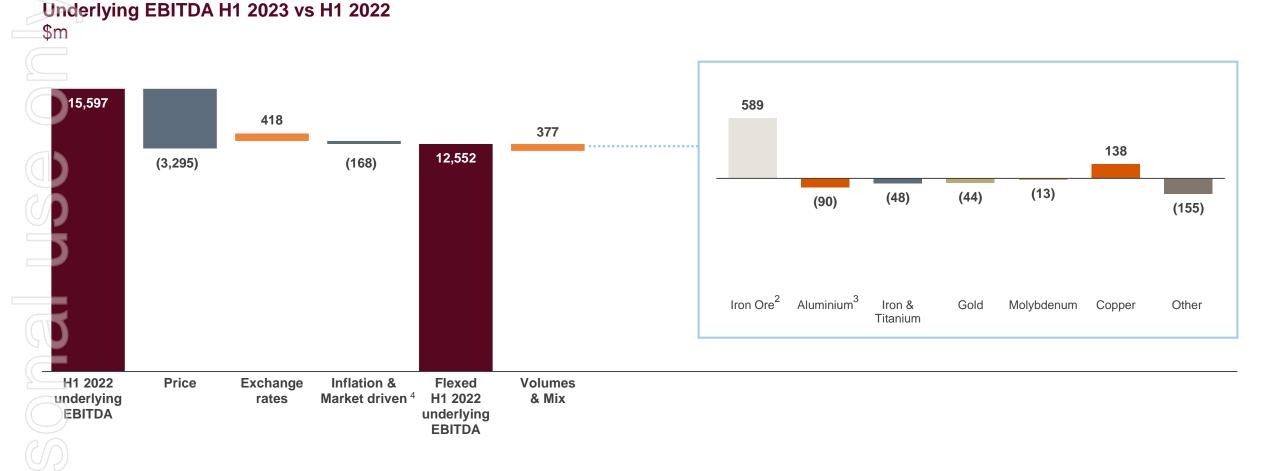
H1 2022

underlying EBITDA

Price

Higher sales volumes¹

with Gudai-Darri and Oyu Tolgoi underground coming online



¹On a copper equivalent basis | ²Iron ore includes Pilbara, portside trading and IOC | ³Aluminium includes alumina and bauxite | ⁴Excludes impact of prices for Aluminium raw materials of \$0.1bn, which is reflected in operating cash unit cost

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Simplified earnings by Business Unit for H1 2023

	Primary Metal Atlantic	Pacific Aluminium	Copper	Pilbara
Sales volume	1,172kt	501kt	314kt ⁶	139.8Mt ⁹
Average benchmark price	\$2,329/t	\$2,329/t	396c/lb ⁷	\$109.8/dmt ¹⁰
Premiums, provisional pricing, by-product sales, product mix, other	\$654/t ²	\$263/t ²	50c/lb	\$(2.6)/dmt
Revenue per unit	\$2,983/t ³	\$2,592/t ³	446c/lb	\$107.2/dmt
Unit cost	\$1,756/t ^{1,4}	\$2,177/t ^{1,4}	244c/lb ^{1,8}	\$21.2/t
Other costs per unit	\$562/t ⁵	\$194/t ⁵	11c/lb ⁵	\$17.7/t ¹¹
Margin per unit	\$665/t	\$221/t	191c/lb	\$68.2/t
Total EBITDA (\$m)	779	111	1,323	9,541



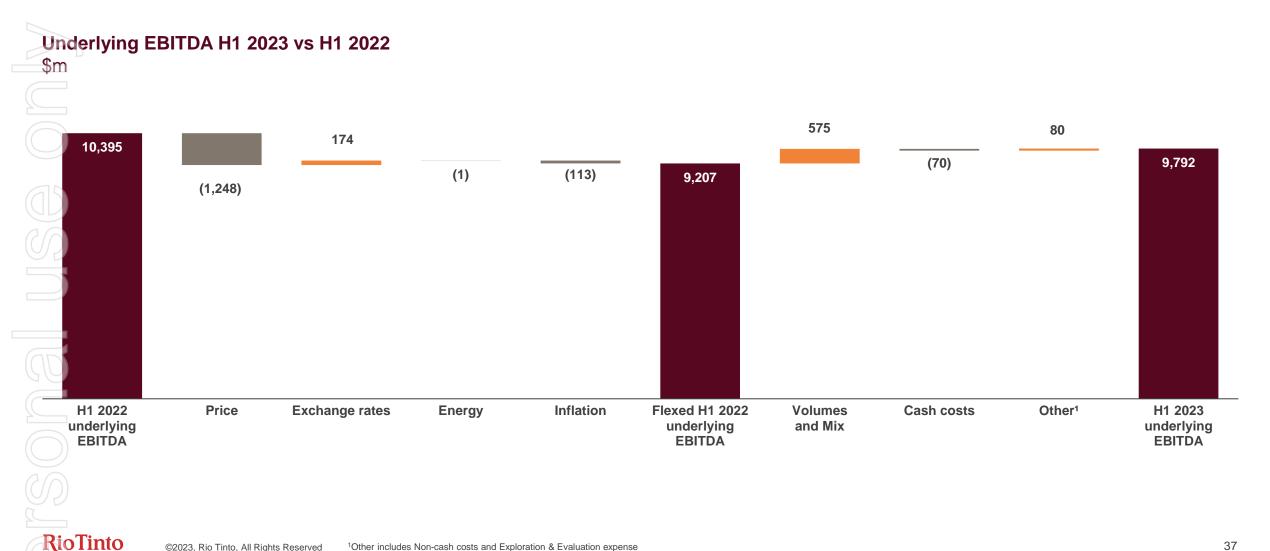
Iron Ore

Financial metrics (\$bn)	H1 2023	H1 2022 comparison	2023 guidance
Segmental revenue	15.6	-6%	
EBITDA	9.8	-6%	
Margin (FOB) ³	69%	-1pp	
Operating cash flow	6.8	-20%	
Capex	1.1	-26%	Sustaining ~\$1.5 ⁴
Free cash flow	5.6	-20%	
Underlying ROCE	63%	-9рр	
Average realised price ^{1,3} (\$/t)	107.2	-11%	
Unit cost ^{2,3} (\$/t)	21.2	-3%	21.0-22.5

Shipments³ (Mt, 100% basis)	2023 guidance	H1 2023	2022	2021	2020	2019	2018
Pilbara Blend		105.5	203.9	202.9	232.7	228.1	245.4
Robe Valley		13.1	25.5	25.2	30.3	27.4	32
Yandicoogina		26.2	56.9	56.9	57.7	57.1	57.4
SP10		16.8	35.4	36.6	9.9	14.8	3.4
Total	320-335	161.7	321.6	321.6	330.6	327.4	338.2



Iron Ore Sustained improvement in operational performance



Aluminium

Financial metrics (\$bn)	H1 2023	H1 2022 comparison	2023 guidance
Segmental revenue	6.3	-20%	
EBITDA	1.1	-60%	
Margin (integrated operations)	21%	-20pp	
Operating cash flow	0.8	-63%	
Capex (excl. EAUs)	0.6	-4%	
Free cash flow	0.2	-89%	
Underlying ROCE	4%	-16pp	
Aluminium realised price ¹	2,866	-25%	
Average alumina price ²	349	-12%	

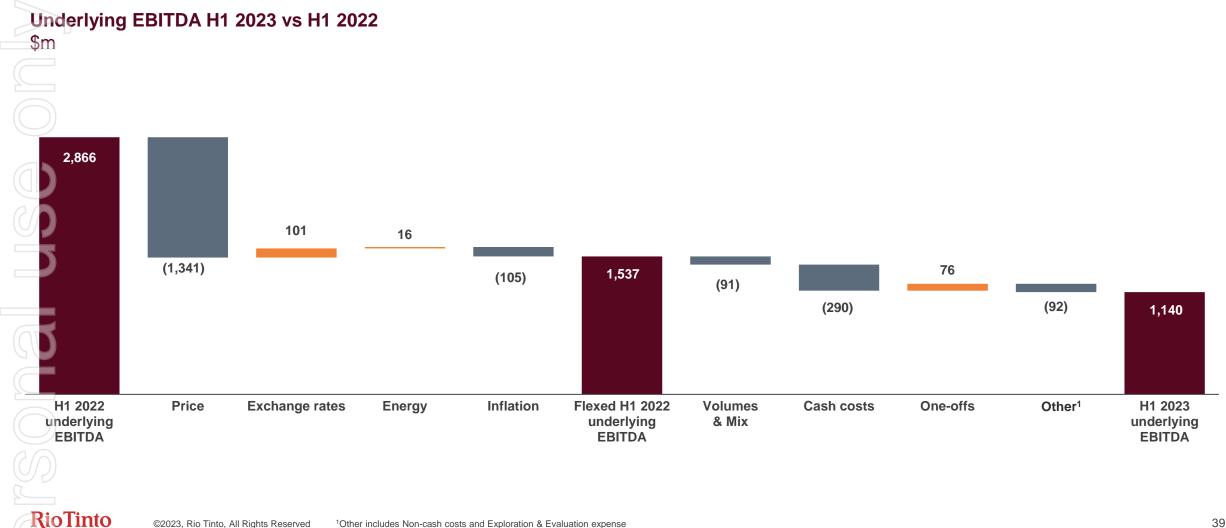
Production (Mt, Rio Tinto share)	2023 guidance	H1 2023	2022	2021	2020	2019	2018
Bauxite	54-57*	25.6	54.6	54.3	56.1	55.1	50.4
Alumina	7.4-7.7	3.7	7.5	7.9	8.0	7.7	8.0
Aluminium	3.1-3.3	1.6	3.0	3.2	3.2	3.2	3.2

^{*} In the lower end of the range

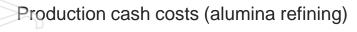


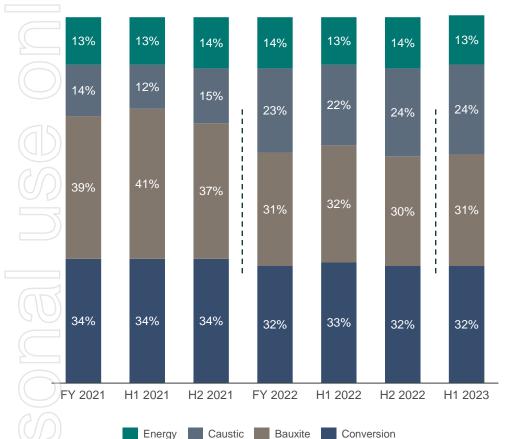
Aluminium

Price declines drive margins down; lower raw material costs to flow through in H2



Composition of alumina and aluminium production costs





Input Costs	H1 2021 Index price	H2 2021 Index price	H1 2022 Index Price	H2 2022 Index price	H1 2023 Index Price	Inventory Flow ⁴	FY23 Annual Cost Sensitivity
Caustic Soda ¹	274 \$/t	535 \$/t	675 \$/t	595 \$/t	432 \$/t	3-4 months	\$10m per \$10/t
Natural Gas ²	2.85 \$/t	4.59 \$/t	6.02 \$/t	7.01 \$/t	2.61 \$/t	0 - 1 month	\$4m per \$0.10/GJ
Fuel Oil ³	64.6 \$/bbl	76.3 \$/bbl	105.9 \$/bbl	93.8 \$/bbl	79.2 \$/bbl	N/A	\$2m per \$10/barrel

- 1. NE Asia FOB
- 2. Henry Hub
- Brent
- 4. Based on quarterly standard costing (moving average)

Input Costs	H1 2021 Index price	H2 2021 Index price	H1 2022 Index Price	H2 2022 Index price	H1 2023 Index Price	Inventory Flow ⁴	FY23 Annual Cost Sensitivity
Alumina ⁵	288 \$/t	369 \$/t	395 \$/t	328 \$/t	349 \$/t	1 -2 months	\$64m per \$10/t
Petroleum Coke ⁶	373 \$/t	491 \$/t	695 \$/t	719 \$/t	636 \$/t	2 -3 months	\$11m per \$10/t
Coal Tar Pitch ⁷	748 \$/t	818 \$/t	1103 \$/t	1476 \$/t	1399 \$/t	1 - 2 months	\$2m per \$10/t

- LME Australia
- US Gulf (FOB)
- North AM (FOB)



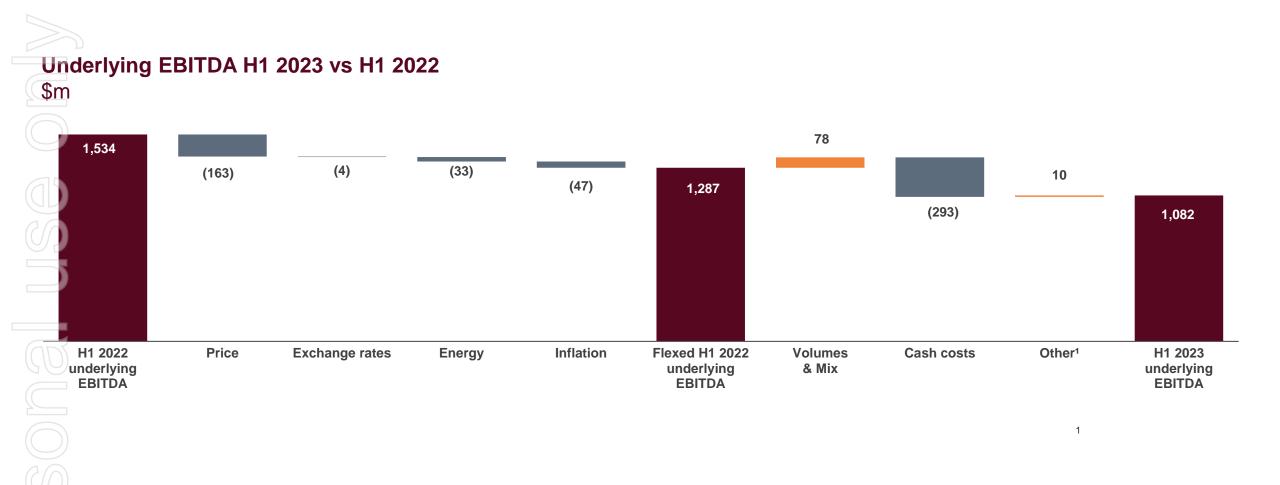
Copper

Financial metrics (\$bn)	H1 2023	H1 2022 comparison	2023 guidance
Segmental revenue	3.5	-2%	
EBITDA	1.1	-29%	
Margin (integrated operations)	43%	-11pp	
Operating cash flow	0.4	-63%	
Capex (excl. EAUs)	0.9	+26%	
Free cash flow	(0.5)	-45%	
Underlying ROCE ¹	4%	-6pp	
Copper realised price ²	396	-11%	
Unit cost ³	184c/lb	+24%	180-200

Production (Mt, Rio Tinto share)	2023 guidance	H1 2023	2022	2021	2020	2019	2018
Mined copper ⁴	590 to 640	290	521	494	528	577	608
Refined copper	160 to 190	95	209	202	155	260	275



Copper Margins remain robust despite 10% decline in LME price



RioTinto

Oyu Tolgoi: Set to triple copper production

Metrics ^{1,2}	Unit	2022 Act	2023 - 2027	2028 - 2036	LOM ³
Ore processed	Mt	39	40	42	40
Head grade (Cu)	%	0.42	0.97	1.28	0.82
Recovery (Cu)	%	80	87	90	84
Concentrate volume	dmt	616	1,078	1,608	1,010
Concentrate grade (Cu)	%	21	31	30	27
Copper production	Kt	130	~340	~500	~290
Gold production	Koz	184	~360	~330	~260

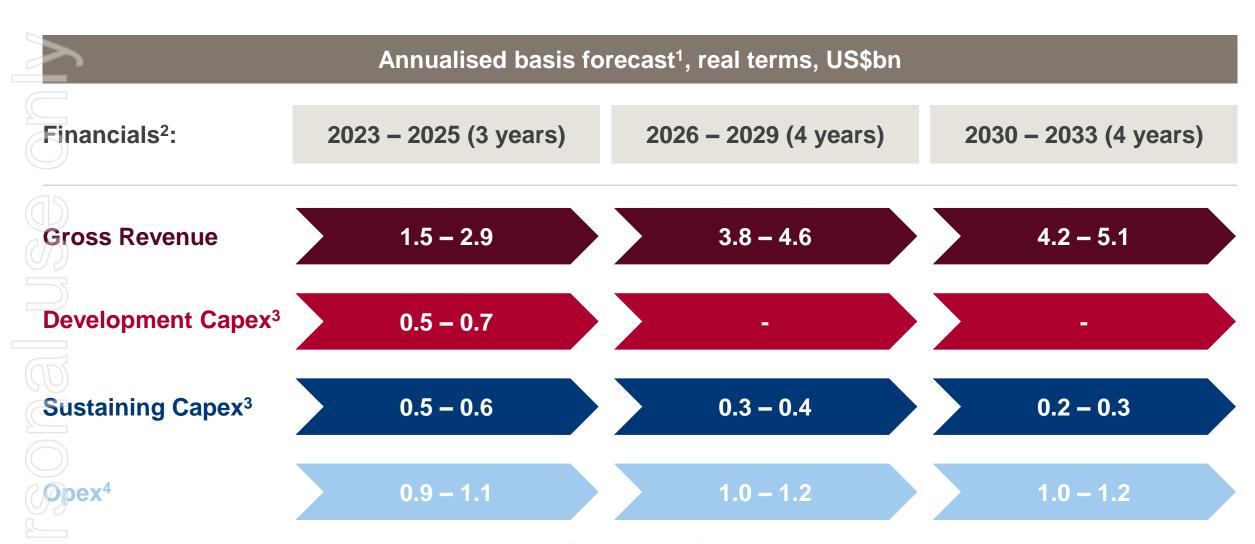
Construction of infrastructure to support ramp up to full production on track

Gold remains a valuable by-product

Producing high quality concentrate attractive to Chinese smelters

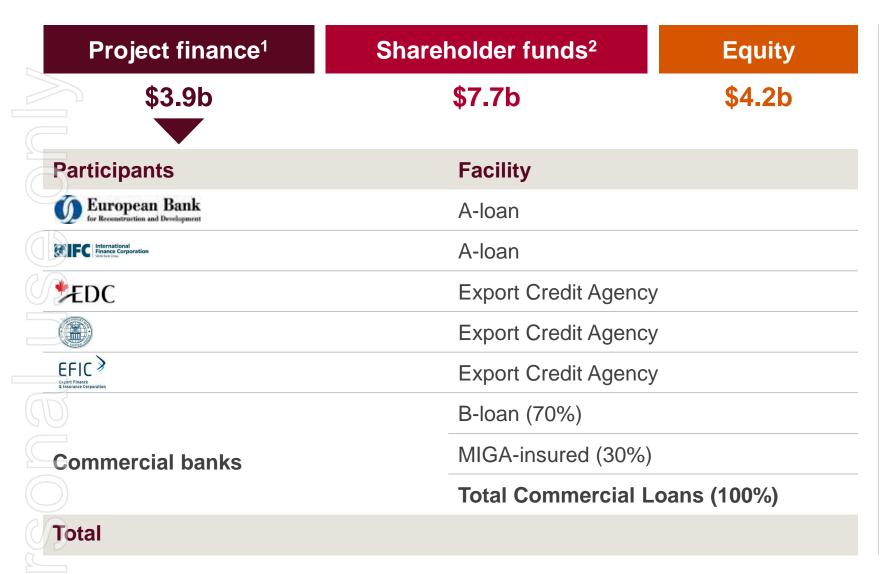


Oyu Tolgoi: Expect to turn free cash flow positive after significant investment





Oyu Tolgoi: Funding profile



Funding Requirement \$1.6-1.7b

(Jun 2023 - Dec 2024)

\$1.6-1.7 billion to be secured by
Rio Tinto Sponsored Senior
Loan Agreement with terms and
conditions that mirror the existing
project finance facility

Expect to be cashflow positive from 2025 onwards to fund the remaining scope of the underground construction



Minerals

Financial metrics (\$bn)	H1 2023	H1 2022 comparison
Segmental revenue	2.9	-15%
EBITDA	0.7	-45%
Margin (product group operations)	30%	-10 pp
Operating cash flow	0.09	-86%
Capex	0.3	+13%
Free cash flow	0.2	-165%
Underlying ROCE ²	13%	-8 pp

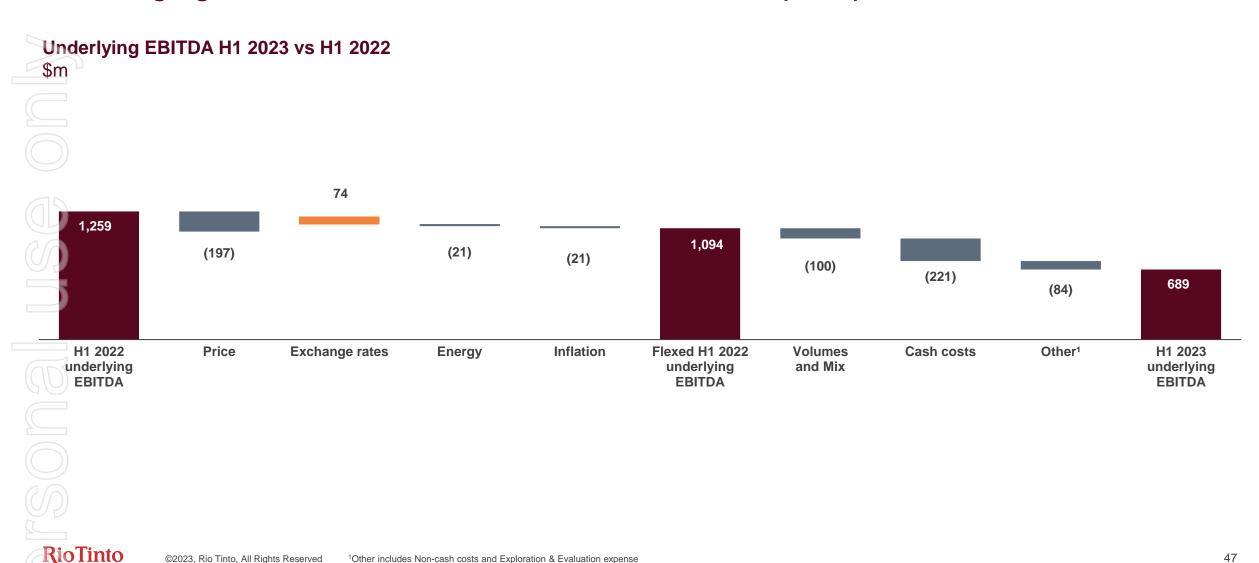
Production (Rio Tinto share)	2023 guidance	H1 2023	2022	2021	2020	2019	2018
IOC (Mt)	10.0-11.0	4.7	10.3	9.7	10.4	10.5	9.0
Borates – B ₂ O ₃ content (kt)	~0.5Mt	257	532	488	480	520	512
Titanium dioxide slag (kt)	1.1-1.4Mt*	589	1,200	1,014	1,120	1,206	1,116
Diamonds ¹ (kt)	3.0-3.8Mt	1,924	4,651	3,847	3,731	4,031	4,358

^{*} In the lower end of the range



Minerals

Challenging market conditions; forest fires at IOC impact production



Cash flow reconciliation

H1 2023 Cash Flow (US\$m)	Statutory cash flow	Reconciling items	Underlying cash flow
Profit after tax for the year/Underlying EBITDA	4,947		11,728
Adjustments for:			
Taxation	1,983		
Finance items	748		
Share of profit after tax of equity accounted units	(431)	(611) ¹	(1,042)
Impairments	1,175	1,175	-
Depreciation and amortisation	2,485		
Provisions (including exchange differences on provisions)	63	29	92
Utilisation of provisions	(492)		(492)
Change in working capital	(927)		(927)
Other items	(116)	192	76
Cash flows from consolidated operations	9,435		
Dividends from EAUs	287		287
Net interest paid	(286)		(286)
Dividends paid to non-controlling interests	(46)		(46)
Tax paid	(2,415)		(2,415)
Net cash generated from operating activities	6,975		
Purchases of PPE			(3,001)
Sales of PPE			8
Lease principal payments			(213)
Free cash flow			3,769

I Itilie ation	Ot.	provisions
Othisation	O.	provisions

		(492)
7	Other provisions	(44)
	Post-retirement benefits and other employee benefits	(115)
	Close down and restoration	(333)

Change in working capital

Inventories		(293)
Trade and of	her receivables	(6)
Trade and of	her payables	(628)
		(927)

Other items

		(116)	192	76
	Other items ^{2,3}	45	(8)	37
•	Depreciation transferred	(88)	88 ³	-
	Change in non-debt derivatives	(73)	112 ²	39
		Statutory	Reconciling items	Underlying



Modelling EBITDA

Underlying EBITDA sensitivity

	Average published price/ exchange rate for HY 2023	US\$m impact on full year 2023 underlying EBITDA of a 10% change in prices/exchange rates
Aluminium - US\$ per tonne	2,329	1,151
Copper - US cents per pound	396	523
Gold - US\$ per troy ounce	1,932	59
Iron ore realised price (FOB basis) - US\$ per dry metric tonne	107.2	2,786
Australian dollar against the US dollar	0.68	712
Canadian dollar against the US dollar	0.74	369
Oil (Brent) - US per barrel	86	193



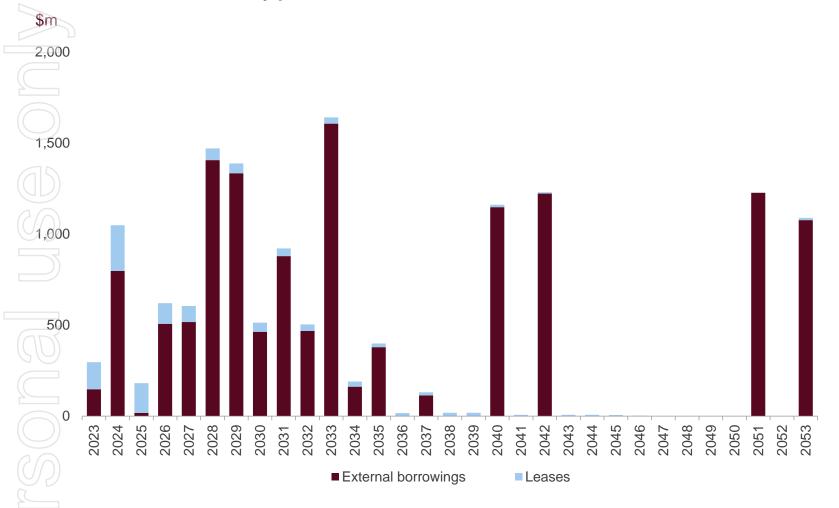
Income Statement: exclusions

		June 2023			June 2022	
	Per Interim release	Exclusions	Underlying	Per Interim release	Exclusions	Underlying
Consolidated sales revenue	26,667		26,667	29,775		29,775
Net operating costs (excluding items disclosed separately)	(17,535)	(141)	(17,676)	(17,202)	(89)	(17,291)
Impairment reversals/(charges net of reversals)	(1,175)	1,175	-	-		-
Exploration and evaluation expenditure (net of profit relating to interests in undeveloped projects)	(710)		(710)	(367)		(367)
Operating profit	7,247	1,034	8,281	12,206	(89)	12,117
Share of profit after tax of equity accounted units	431		431	468		468
Profit before finance items and taxation	7,678	1,034	8,712	12,674	(89)	12,585
Net exchange gains/(losses) on external and intragroup net (debt)/cash balances	103	(103)	-	387	(387)	-
Net losses on derivatives not qualifying for hedge accounting	32	(32)	-	(205)	205	-
Finance income	245		245	17		17
Finance costs	(536)		(536)	(55)		(55)
Amortisation of discount on provisions	(592)		(592)	(503)		(503)
Finance items	(748)	(135)	(883)	(359)	(182)	(541)
Profit before taxation	6,930	899	7,829	12,315	(271)	12,044
Taxation	(1,983)	(298)	(2,281)	(2,867)	(16)	(2,883)
Profit after tax for the year	4,947	601	5,548	9,448	(287)	9,161
attributable to owners of Rio Tinto (net earnings)	5,117	603	5,720	8,943	(281)	8,662
attributable to non-controlling interests	(170)	(2)	(172)	505	(6)	499



Debt maturity profile

30 June 2023 debt maturity profile¹

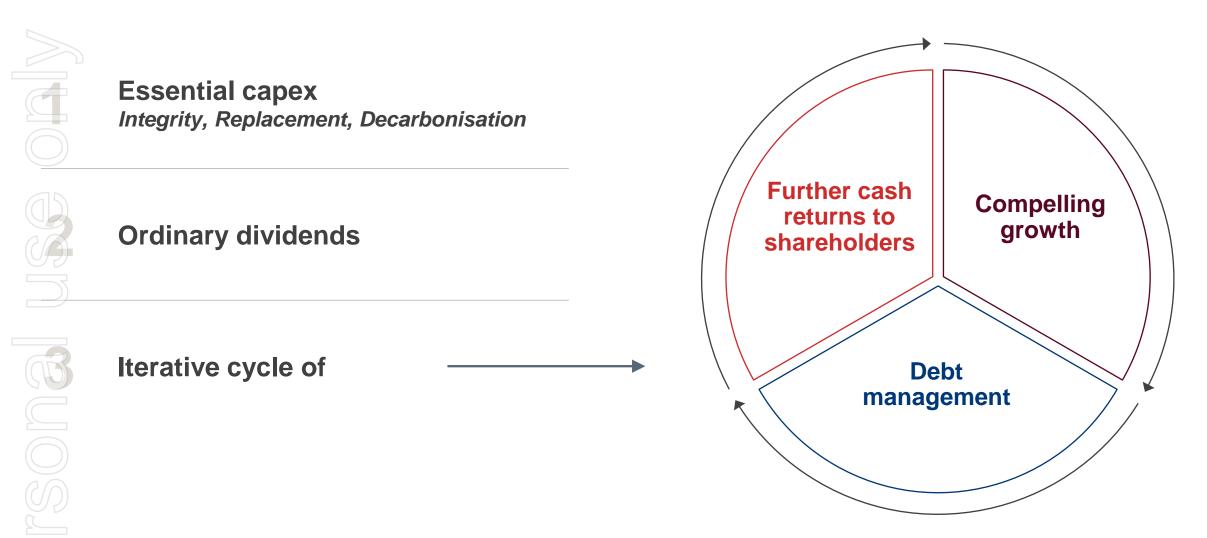


- On 6 March, issued \$1.75bn SECregistered debt securities, extending the corporate bond debt maturity by ~2 years. Issuance consisted of:
 - \$650m 10-year 5.000% coupon maturing in 2033
 - \$1,100m 30-year 5.125% coupon maturing in 2053
- At 30 June weighted average outstanding debt maturity of corporate bonds ~16 years (~12 years for Group debt)
- No corporate bond maturities until 2024
- Liquidity remains strong under stress tests
- \$7.5bn back-stop Revolving Credit Facility matures in November 2027. It has an additional one-year extension option

RioTinto

Balancing near-term returns to shareholders

RioTinto



Group level financial guidance

	2023	2024	2025
Сарех			
Total Group	~\$7.0bn ¹	Up to 10.0bn	Up to 10.0bn
Group Growth Capex	\$1.5bn ²	Up to \$3bn	Up to \$3bn
Group Sustaining Capex	~\$3.5bn	~\$3.5bn	~\$3.5bn
Pilbara Sustaining Capex	~\$1.5bn ^{3,4}	~\$1.5bn ^{4,5}	~\$1.5bn ^{4,5}



Effective tax rate	~30%

Returns Total returns of 40 – 60% of underlying earnings through the cycle



Product group level guidance

	2023 Production Guidance
Pilbara iron ore shipments	320 - 335Mt ¹ (100% basis)
	(10070 0000)
Copper Mined Copper (coppelidated basis)	500 640k+2
Mined Copper (consolidated basis)	590 – 640kt²
Refined Copper	160 – 190kt
Aluminium	
Bauxite	$54 - 57Mt^3$
Alumina	7.4 – 7.7Mt
Aluminium	3.1 – 3.3Mt
Minerals	
TiO ₂	1.1 – 1.4Mt ³
IOC pellets and concentrate ⁴	10.0 – 11.0Mt
B_2O_3	~0.5Mt
Diamonds	3.0 – 3.8m carats

	2023 Unit cost guidance ⁴
Pilbara Iron ore (\$/tonne)	\$21.0 – \$22.5
Copper C1 (US cents/lb)	180 – 200



Application of the returns policy

Capital return considerations	Comments
Results for HY 2023	 Operating cash flow of \$7.0bn FCF of \$3.8bn¹ Underlying earnings down 34% to \$5.7bn
Long-term growth prospects	 Focused on Oyu Tolgoi Simandou project progressing Investing in replacing high quality assets in Pilbara and Kennecott Ongoing exploration and evaluation programme
Balance sheet strength	Strong balance sheet with net debt of \$4.4bn
40-60 per cent of underlying earnings through the cycle	 Interim pay-out of 50% based on (i) Strong financial performance in 2023 (ii) strong balance sheet (iii) outlook
Balanced between growth and shareholder returns	 Defined growth pipeline and a strong balance sheet providing capacity for shareholder return Our priority is to generate long-term value by consistently implementing our strategic objectives through the cycle We continue to maintain our capital discipline in times of macro-economic challenge and uncertainty We have made additional returns in times of surplus cash flow and lower capital needs and we will continue to pay attractive dividends to our shareholders in line with our pay-out policy
Outlook	 China's economic recovery has fallen short of initial market expectations, as the property market downturn continues to weigh on the economy and consumers remain cautious despite monetary policy easing. Manufacturing data in advanced economies showed a further slowdown and recessionary risks remain



Safe Production System and Decarbonisation

RioTinto

Safe Production System (SPS)

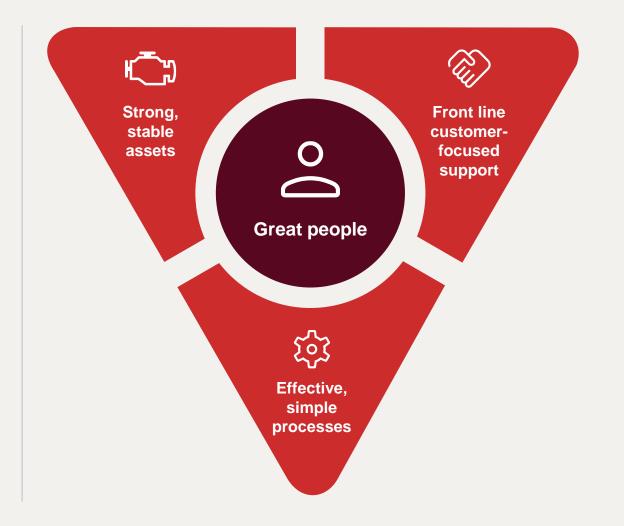
Best operator

Building a lasting competitive advantage with our people. We want to empower them to safely run assets that are in control, capable and performing better than any of our competitors.

Care

Courage

Curiosity





Decarbonisation abatement programmes

Programme	Description & key sites Renewables: smelters Boyne Tomago	Funding mechanism	Example project - economics		
Pacific Operations Repower		Long-term market contractsGovernment partnerships	 Commercial solutions achieved through government partnerships and long-term contracts Assets will need to remain competitive 		
Renewables	Solar & wind renewables Pilbara Weipa QMM Kennecott RBM	Capital - build own operateLong-term market contracts	 Phase 1 – 230MW solar + 200MWh of on-grid battery storage is value accretive at a carbon price of <\$40/t driven by \$55m reduction in gas displacement costs at current prices 		
Diesel	HME & Diesel switching Ph I: Bio-fuels Ph II: Fleet electrification Pilbara IOC	CapitalLand acquisitions (non-edible feedstock)HME	 Bio-fuels: comparable cost to diesel¹ and de-risking of technical risk in fleet electrification Diesel cost savings post fleet electrification 		
Alumina process heat	Electrification of boilers Process & energy efficiency H ₂ calcination – replacement Vaudreuil QAL Yarwun	R&DCapital	 QAL double digestion is value accretive at zero carbon price driven by reducing bauxite, raw material and energy costs A subset of projects are value accretive at a carbon price of \$50/t to \$100/t 		
Mineral processing	New technologies Electrification of boilers IOC RTIT Borates	R&DCapitalGovernment / industry partnerships	 IOC steam plant fuel reduction - 40MW electric boiler conversion is value accretive at a zero carbon price The electrification of the boilers will require new commercial renewable energy contracts as well as capital 		
Aluminium anodes	ELYSIS™ technology All smelters	R&DCapital	Commercial scale technology from 2024Value generation through scale-up later		
Nature-based Solutions	High quality offsets 8 large scale sites	Capital land acquisitionsOperating costs	 Development costs of high-quality projects on or near our assets are currently estimated at \$20-50/t CO₂e, the range reflects varying project types and landscapes 		



Common acronyms

AHS	Automous Haulage System	EC	European Commission	Mtpa	Million tonnes per annum	RTFT	Rio Tinto Fer et Titane
AIFR	All Injury Frequency Rate	EMEA	Europe, Middle East and Africa	MACC	Marginal Abatement Cost Curve	RTIO	Rio Tinto Iron Ore
Al	Aluminium	ESG	Environmental, Social, and Governance	MW	Megawatt	RTX	Rio Tinto Exploration
AL ₂ O ₃	Aluminium oxide	EU	European Union	MWh	Megawatt hour	SPS	Safe Production System
ARDC	Arvida Research and Development Centre	Fe	Iron	NbS	Nature-based Solutions	S&P	Standard & Poor's
ASX	Australian Securities Exchange	FOB	Free On Board	NPV	Net present value	Т	Tonne
ATS	Aluminium Technology Solutions	FS	Feasibility Study	O&M	Operation & Maintenance	t/ha	Tonnes per hectare
B_2O_3	Boric oxide	GHG	Greenhouse gas	ОТ	Oyu Tolgoi	tLS	Tonnes of liquid steel
Bn	Billion	GFC	Global Financial Crisis	Pa	Per annum	tCO ₂ e	Tonne of carbon dioxide equivalen
BF	Blast furnace	Gt	Giga tonnes	PJ	Petajoule	TiO ₂	Titanium dioxide
BOF	Blast Oxygen Furnace	GW	Gigawatt	PPA	Power Purchasing Agreement	tpa	Tonnes per annum
BSL	Boyne Smelter Limited	H ₂	Hydrogen	PP&E	Plant. Property & Equipment	TWh	Terawatt hour
CAGR	Compound annual growth rate	НВІ	Hot briquetted iron	QAL	Queensland Alumina Limited	UB	Ulaanbaatar
CCGT	Combined Cycle Gas Turbine	HG	High grade ore	QMM	QIT Madagascar Minerals	USD	United States dollar
ccus	Carbon capture, utilisation and storage	НМЕ	Heavy Mining Equipment	R&D	Research and development	VAP	Value-added product
ccs	Carbon Capture and Storage	IEA	International Energy Agency	RBM	Richards Bay Minerals	WA	Western Australia
CO2	Carbon dioxide	IOC	Iron Ore Company of Canada	RE	Renewable Energy	WTS	Western Turner Syncline
CO₂e	Carbon dioxide equivalent	IRR	Internal rate of return	RRF	Recovery and Resilience Facility	YoY	Year on Year
Cu	Copper	JV	Joint Venture	ROCE	Return on capital employed	YTD	Year to date
DRI	Direct Reduction Iron	LCE	Lithium Carbonate Equivalent	RT	Rio Tinto		
EAF	Electric Arc Furnace	LCOE	Levelised Cost of Energy	RTE	Round trip efficiency		
EBITDA	Earnings Before Interest, Taxes, Depreciation and Amortisation	M	Millions				
リシ		Mt	Million tonnes				

Definitions

Calculated abatement carbon price

The levelised marginal cost of abatement at a zero carbon price

Calculation:

Discounted sum of all abatement costs over time at a zero carbon price / Discounted sum of all abated emissions over time

Discounted at the hurdle rate RT uses for all investment decisions



RioTinto