

## Notice to ASX/LSE

## Rio Tinto releases fourth quarter production results

### 19 January 2021

Rio Tinto Chief Executive Jakob Stausholm, said: "We have delivered a strong safety and operational performance in the face of the significant global challenges of COVID-19. Our 2020 performance reflects the resilience of the business, and the commitment and flexibility of our employees, customers, communities and host governments.

"We are working to restore trust with the Puutu Kunti Kurrama and Pinikura (PKKP) people. Some important progress has been made as set out in the joint statement issued in December following a meeting between the PKKP and Rio Tinto boards. We are also developing additional measures to strengthen our partnerships with Traditional Owners, including a commitment to modernise and improve agreements, particularly in the Pilbara. More broadly, we are determined to improve Rio Tinto's approach to stakeholder engagement globally by embedding a more inclusive approach that strengthens our overall thinking, decision-making and performance. However, I do not underestimate the time and effort it will take, genuinely working together with our partners, in order for Rio Tinto to drive the changes necessary to help restore trust and rebuild our reputation.

"Safe and well-run operations, together with world-class assets and a strong balance sheet, leave Rio Tinto well placed to generate superior returns for shareholders, invest in sustaining and growing our portfolio, while continuing to pay taxes and royalties in our host communities and make a broader contribution to society, including employment and procurement."

Production*		Q4 2020	vs Q4 2019	vs Q3 2020	Full Year 2020	vs Full Year 2019
Pilbara iron ore shipments (100% basis)	Mt	88.9	+2%	+8 %	330.6	+1%
Pilbara iron ore production (100% basis)	Mt	86.0	+3%	0 %	333.4	+2%
Bauxite	Mt	13.3	-12%	-8 %	56.1	+2%
Aluminium	kt	815	+4%	+2 %	3,180	0%
Mined Copper	kt	132.5	-4%	+2 %	527.9	-9%
Titanium dioxide slag	kt	272	-5%	-7 %	1,120	-7%
IOC iron ore pellets and concentrate	Mt	2.7	+7%	+17 %	10.4	-1%

<sup>\*</sup>Rio Tinto share unless otherwise stated

### **Q4** Operational update

- Our 2020 safety performance was strong, fatality-free for a second year in a row. Health and safety
  remains our top priority as we maintain use of the critical controls that protect our employees and the
  local communities with the resurgence of COVID-19 in several regions where we operate. Our all injury
  frequency rate (AIFR) improved by more than 10% for 2020 versus 2019 (0.42), demonstrating our ability
  to adapt to changing conditions.
- Pilbara iron ore achieved a strong performance across the network in 2020, despite impacts from
  Cyclone Damien in the first quarter and COVID-19 disruptions which also resulted in the deferral of
  maintenance to the second half. Shipments of 330.6 million tonnes (100% basis) were 1% higher than
  2019 and production of 333.4 million tonnes (100% basis), 2% higher than 2019. This was underpinned
  by record total material moved, 7% higher than the previous record in 2019.
- Bauxite production of 56.1 million tonnes was 2% higher than 2019 supported by the ramp-up of the
  expansion at the CBG mine in Guinea, and steady performance at the Pacific mines.
- Aluminium production of 3.2 million tonnes was in line with 2019, with lower volumes from the curtailment
  of Line 4 at the Tiwai Point aluminium smelter in New Zealand and from the Kitimat smelter pot relining
  campaign, offset by the ramp-up of the Becancour smelter in Quebec.
- On 14 January 2021, we <u>announced</u> a new electricity agreement had been reached with Meridian Energy that allows New Zealand's Aluminium Smelter (NZAS) to continue operating the Tiwai Point aluminium smelter until December, 2024.

- Mined copper was above the guidance range, but 9% lower than 2019 due to lower grades at Kennecott
  as a result of planned pit sequencing and Oyu Tolgoi production phasing. The commercial and
  operational teams at Kennecott Utah achieved approximately 60,000 dry metric tonnes of copper
  concentrate sales in the fourth quarter to partly mitigate the impact of the delayed re-start of the smelter,
  which became fully operational during October.
- On 16 December, we <u>confirmed</u> the definitive estimate of cost and schedule for Panel 0 of the Oyu Tolgoi underground project in Mongolia, with sustainable production expected to commence in October 2022 and development capital of \$6.75 billion<sup>1</sup>, in line with previously announced ranges. Rio Tinto considers that additional milestones need to be met in order to ensure that the project can commence caving operations in 2021, including: outstanding government approvals; funding; and, a power solution. Further information can be found in the Investments, growth and development projects section below.
- Titanium dioxide slag production of 1.1 million tonnes was 7% lower than 2019 due to COVID-19
  restrictions in Quebec and South Africa, lower market demand and operational disruptions at Richards
  Bay Minerals (RBM). With the COVID-19 resurgence in Quebec and South Africa, we continue to
  operate our assets with extensive measures in place to ensure the safety of our employees and
  communities.
- Production of pellets and concentrate at Iron Ore Company of Canada (IOC) was 1% lower than 2019 due to unplanned maintenance at the processing facilities in the third and fourth quarters. On 3 December, we <u>signed</u> a Reconciliation and Collaboration Agreement with the Innu communities of Uashat mak Mani-utenam and Matimekush-Lac John, re-confirming the long-term partnership between the company and the two communities over the coming decades.
- On 10 December, we <u>disclosed</u> a maiden Ore Reserve and updated Mineral Resource at the 100% owned Jadar lithium-borates project in western Serbia. The Ore Reserve is 16.6 million tonnes at 1.81% Li<sub>2</sub>O and 13.4% B<sub>2</sub>O<sub>3</sub>.<sup>2</sup> Jadar would be capable of producing approximately 55 thousand tonnes of battery grade lithium carbonate, as well as 160 thousand tonnes of boric acid (B<sub>2</sub>O<sub>3</sub> units) and 255 thousand tonnes of sodium sulfate as by-products per annum.<sup>3</sup>
- On 17 December, we <u>announced</u> the appointment of Jakob Stausholm as Chief Executive, effective 1
  January 2021. Peter Cunningham has been appointed interim Chief Financial Officer, effective 1 January
  2021.
- On 15 January 2021, we <u>announced</u> that we have entered the next phase of public comment in the
  ongoing permitting process at the Resolution Copper Project in Arizona, led by the US Forest Service,
  with the release of its independently prepared Final Environmental Impact Statement (EIS). The delay in
  publication of the Final EIS, which was originally scheduled for July 2020 by the Obama Administration,
  is a result of extensive public consultation, significant interagency coordination and COVID-19 related
  changes to the pace of work.

<sup>1</sup> This estimate is at a better than feasibility study level of accuracy.

<sup>2</sup> This Ore Reserve estimate was set out in a release to the Australian Securities Exchange (ASX) dated 10 December 2020 "Rio Tinto declares maiden Ore Reserve at Jadar" (ASX release). The Competent Person responsible for the information in the ASX release that relates to Ore Reserves is Mr Allan Earl who is a Fellow of the Australasian Institute of Mining and Metallurgy (FAusIMM). Mr Earl's assessment is supported from a metallurgical perspective by Mr Gary Davis who is a Member of the Australasian Institute of Mining and Metallurgy (MAusIMM). Rio Tinto confirms that it is not aware of any new information or data that materially affects the information included in the ASX release, that all material assumptions and technical parameters underpinning the estimates in the ASX release continue to apply and have not materially changed, and that the form and context in which the Competent Persons' findings are presented have not been materially modified.

3 These production targets were previously reported in the ASX release on 10 December 2020. All material assumptions underpinning the production targets continue to

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### **Cultural heritage**

We have commenced implementation of the recommendations from the Board review of cultural heritage management and are developing additional measures to enhance our partnerships, as we continue to focus on the longer-term process of regaining the trust of Traditional Owners. To support this, we are focused on making sure that we build a more inclusive and diverse work culture, which will require sustained effort over many years.

On 9 December, we <u>acknowledged</u> the release of the Joint Standing Committee on Northern Australia's interim report following the Parliamentary Inquiry into the destruction of rockshelters at Juukan Gorge. On 16 December, we set out <u>our position</u> on the Committee's Recommendation 1 contained in the interim report. All documents can be found on our dedicated page on the website <u>here</u>.

On 23 December, we issued a joint statement with the Puutu Kunti Kurrama and Pinikura (PKKP) people confirming our shared commitment to work together to rebuild our relationship following the Juukan Gorge events in May 2020. We have made strong progress in recent months:

- With the PKKP, we have worked on a rehabilitation programme for the Juukan 1 and Juukan 2 rock shelters and we are assessing ways to protect the area for the future. This includes a permanent mining moratorium around the Juukan Gorge area. We have moved the artefacts previously uncovered from the rockshelters to a purpose-built facility, with the support of the PKKP.
- The PKKP and Rio Tinto boards met to reaffirm our apology and commitment to rebuilding our relationship. This followed a visit to the Juukan Gorge by our Chairman and the Chair of our Sustainability Committee with PKKP elders.

A summary of other key actions taken in the guarter are outlined below:

- Reassessed all activities which have the potential to impact heritage sites. We will continue to review
  mine plans to ensure the protection of sites of exceptional cultural value and have increased monitoring
  of operating activities that have the potential to impact heritage sites. We have also integrated heritage
  management into our mining operations our Product Groups have primary responsibility for our
  Communities and Social Performance (CSP) partnerships and engagement.
- We have confirmed that Traditional Owners are not restricted from raising concerns about cultural heritage matters with anyone, or from applying for statutory protection of any cultural heritage sites. This forms part of our commitment to modernise our agreements with Traditional Owner groups in the Pilbara. This will take time to ensure the process involves meaningful participation of Traditional Owners. We will also engage with Traditional Owners on how best to incorporate a process of independent review to support the modernisation process. In the meantime, we continue to work with Traditional Owners under existing agreements and have increased engagement regarding current and proposed plans for mining activities.
- Appointed Indigenous community leader, Wayne Bergmann, to consult with Traditional Owners on the
  formation of an Indigenous Advisory Group in Australia. The Advisory Group will advise the Board and
  senior management team and provide an alternative pathway for Traditional Owners to escalate any
  concerns they may have about our performance at a local level.
- Strengthened the operational leadership of relationships with Traditional Owners and we are strengthening our business-wide cultural competency programme to build awareness and understanding.
- Further to our commitment to invest \$50 million to increase employment opportunities for Indigenous
  Australians in our business and enhance Indigenous leadership in our Australian operations, we have
  progressed plans to advance Indigenous leadership in our business with the launch of a leadership
  programme involving more than 200 Indigenous employees. We have also implemented a two-way
  mentoring relationship between Indigenous employees and senior leaders as part of a broader cultural
  competency programme.

#### **Our markets**

Economic activity, particularly in Europe, continues to be disrupted in the short term due to measures to combat COVID-19. Monetary policy is expected to remain accommodative and fiscal policy is also expected to be utilised extensively, both of which should be supportive of commodity demand.

- In China, the industrial sector has recovered and is now at pre-COVID levels due to the rapid deployment of stimulus. Exports continue to rise with the global economic recovery, and a policy shift to promote domestic investment and consumption is supportive of the commodity demand outlook.
- Iron ore prices rose significantly in the second half of 2020 on the back of tightened market fundamentals. China's buying remains robust despite ongoing localised impacts from COVID-19 in some regions. Demand in Japan, Korea, Taiwan and Europe is recovering, amplified by restocking.
- The aluminium price has rebounded on solid downstream demand, particularly in the automotive and packaging sectors. We remain cautious on the outlook due to an expected increase in Chinese supply and high global inventories.
- Copper prices remain strong. Chinese consumption is robust, mine and scrap supply have been disrupted, and investment demand is strong. We expect global fiscal stimulus, particularly in the electrification and renewables sectors, to be copper-intensive and supportive of the outlook.

### Average realised prices achieved for our major commodities

	Units	2020	2019
Pilbara iron ore	FOB, \$/wmt	91.0	79.0
Pilbara iron ore	FOB, \$/dmt	98.9	85.9
Aluminium*	Metal, \$/t	1,946	2,132
Copper**	US cents per lb	283.0	274.0
IOC pellets	\$/wmt	127.6	137.1

<sup>\*</sup>LME plus all-in premiums (product and market)

#### Product stewardship, our value chain and sustainability

- As part of our approach to work in partnerships with customers and other stakeholders to progress the
  decarbonisation of our value chain, in line with our Climate Strategy, we advanced three partnerships in
  the fourth quarter:
  - On 23 November, we <u>announced</u> a renewed partnership agreement with China's Tsinghua University and a further commitment of 30 million yuan (\$4.5 million) over the next five years to support research projects at the Tsinghua-Rio Tinto Joint Research Centre for Resources, Energy and Sustainable Development.
  - On 16 December, we <u>announced</u> the advancement of a climate partnership with the world's largest steel producer China Baowu Steel Group, and Tsinghua University, including a commitment to invest \$10 million over the next two years in low-carbon steelmaking projects and research
  - On 16 December, we <u>announced</u> the signing of a Memorandum of Understanding (MOU) with Japan's largest steel producer, Nippon Steel Corporation to jointly explore, develop and demonstrate technologies to transition to a low-carbon emission steel value chain.
- On 16 December, we <u>announced</u> the completion of construction on the ELYSIS Industrial Research and Development Centre in Saguenay-Lac-Saint-Jean, Québec. Commissioning of the Industrial Research and Development Centre is now underway.
- On 17 December, we <u>announced</u> an investment of \$8.4 million to expand the recycling capacity of our aluminium operations in Saguenay-Lac-Saint-Jean, Quebec, to offer rolled product customers in North America a new, sustainable solution combining low-carbon and recycled aluminium. With an initial capacity of 22,000 metric tons of remelted aluminium per year, the new aluminium recycling system is expected to be operational at the end of 2021.
- Following successful pilot plant trials to extract high purity scandium oxide from the waste streams of
  titanium dioxide production, on 14 January 2021 we <u>announced</u> an initial investment of \$6 million for
  construction of a first module in a new commercial scale demonstration plant at our Rio Tinto Fer et
  Titane (RTFT) metallurgical complex in Sorel-Tracy, Quebec. Commercial supply of scandium oxide is
  expected in the second quarter of 2021, making RTFT the first producer of high-quality scandium oxide
  in North America.

<sup>\*\*</sup>Realised price for all units sold, adjusted for provisionally priced contracts

#### COVID-19

We continue to manage the risk of COVID-19 as countries tighten restrictions and work to fight against a resurgence of the virus. Our absolute priority is to maintain significant levels of support and care for our employees, contractors, and host communities, particularly with the re-emerging risk for our operations and projects in Canada, the United States, South Africa and Mongolia. We are focused on well-being initiatives globally, and embrace flexible working arrangements.

- At the Oyu Tolgoi operation in Mongolia, we continue to apply the strictest measures, including testing
  for all employees before access to site. We maintain focus on health, safety and well-being of our
  employees and contractors amid the restrictions on domestic and international travel, and will continue
  to rotate employees when safe to do so.
- We are in regular contact with health authorities in Canada both in Northern British Columbia and Quebec - with the rapid increase in cases. We are applying extensive measures to ensure the safety of our employees and communities including travel management protocols for employees and contractors along with reduced access to site.
- At our Diavik operation in the Northwest Territories of Canada, since testing commenced in May, we
  have taken nearly 20,000 swabs at the mine site which have been analysed through our on-site
  laboratory, including some for nearby mines that we service.
- At our Boron site in California, support has been provided to employees with ongoing rapid testing, and the implementation of reduced site hours to lessen the transmission risk and to protect our employees.
- With the outbreaks in the eastern states of Australia, State border closures are being closely monitored with site access controls and travel management protocols being utilised.
- We are actively managing the risks to seafarers from restrictions on crew changeovers due to COVID-19 measures in place in various countries. We continue to work with the industry, our shipowner partners and regulators to facilitate crew changes and protect crew welfare.

#### Communities

- We have committed \$25 million in COVID-19 related community projects globally, with around A\$20 million in Australia including A\$1.25 million over five years to the Royal Flying Doctor Service to improve emergency and remotely delivered health care services across the region.
- In partnership with the United Nations, we have committed \$600,000 to COVID-19 relief initiatives in Mongolia including donation of laboratory equipment. We are actively engaging with local coordinators and participating in working groups to support the rollout of a vaccine.
- At Richards Bay Minerals in KwaZulu-Natal, South Africa, we are committed to supporting our local
  communities and have donated more than R5.5 million to provide critical support to those impacted by
  COVID-19, including food and water supplies, as well as Personal Protective Equipment (PPE) for
  frontline health workers and clinics.
- We are investing \$10 million in a variety of grassroots projects across Canada and the United States to support local community efforts to fight COVID-19 and its social and economic impacts, along with supporting projects that maintain and create regional economic development.
  - In Arizona, the Resolution Copper Project partnered with the United Food Bank to deliver 75,000 meals to the White Mountain Apache Tribe. It also donated 50,000 cans of water to support tribes, in partnership with Ball Corp and Can'd Aid.
  - In the Northwest Territories, our Diavik diamond mine is partnering with the Yellowknife Women's Society to support its COVID-19 isolation shelter with a C\$150,000 contribution. We are also contributing C\$60,000 to five Indigenous communities for food and other needs.

Full details of initiatives taken to date can be found on our website.

#### **Production guidance**

Rio Tinto share, unless otherwise stated	2020 Actuals	2021
Pilbara iron ore (shipments, 100% basis) (Mt)	331	325 to 340
Bauxite (Mt)	56	56 to 59
Alumina (Mt)	8.0	7.8 to 8.2
Aluminium (Mt)	3.2	3.1 to 3.3
Mined copper (kt)	528	500 to 550
Refined copper (kt)	155	210 to 250
Diamonds (M carats) <sup>1</sup>	3.7	3.0 to 3.8
Titanium dioxide slag (Mt)	1.1	~1.1 to 1.3
IOC iron ore pellets and concentrate (Mt)	10.4	10.5 to 12.0
Boric oxide equivalent (Mt)	0.5	~0.5

<sup>1</sup>Diamonds 2021 guidance and 2020 actual are for Diavik only for compatibility, following Argyle closure in 2020. Unadjusted Diamonds production for 2020 was 14.7 million carats, including both Diavik and Argyle operations.

- We will continue to monitor and adjust production levels and product mix to meet customer requirements in line with our value over volume strategy, government imposed restrictions related to COVID-19 and any other potential COVID-19 related disruptions.
- Iron ore shipments and bauxite production guidance remain subject to weather and market conditions. Iron ore guidance takes into account the risks associated with tying in approximately 90 million tonnes of replacement mine capacity at existing hubs in Robe Valley, West Angelas and Western Turner Syncline Phase 2 as well as the start-up of Gudai-Darri.
- The future impact on our Pilbara iron ore operations, mine developments and heritage approach from the
  reform of the Aboriginal Heritage Act 1972 (WA) remains unknown. We will maintain a high level of
  engagement with Traditional Owners regarding current and proposed plans for mining activities and
  continue to work through scenarios in an iterative manner as cultural assessments and mine designs
  progress, with a broad range of options available given the flexibility in our Pilbara network.

#### Investments, growth and development projects

- Project teams have proactively managed COVID-19 related challenges, and overall project delivery is satisfactory. Uncertainty continues to exist around local situations, border access, movement of people and goods.
- Exploration and evaluation operating expense in 2020 was \$625 million, \$1 million higher than 2019, with some redistribution of activities from regions with greater COVID-19 restrictions such as Europe, Central Asia and America, and ramp-up of activities in Australia following the easing of restrictions. The teams were able to keep programmes running throughout 2020 whilst maintaining strong safety standards, protecting our people and communities.

## Pilbara replacement projects

- Gudai-Darri (formerly Koodaideri) progress continues with production ramp-up on track for early 2022.
   The airstrip is now complete and operational, and track work continues on the northern section of the railway.
- First ore from the Robe River Joint Venture sustaining production projects (West Angelas C, D and Mesa B, C and H at Robe Valley) is still expected in 2021. All required approvals have now been received.
- Construction continues to progress at Western Turner Syncline Phase 2, with the project maintaining forecast first ore in 2021.

#### Oyu Tolgoi underground project

Technical progress

- Work on the project has continued to progress despite restrictions from COVID-19 controls and ongoing
  international travel restrictions. In November 2020, the Mongolian State Emergency Commission
  declared an "all out readiness state" after Mongolia recorded its first community transmission of
  COVID-19. All movements in and out of Ulaanbaatar and all domestic flights were halted. Critical
  commissioning vendors and sinking crew are in-country, however timing was impacted by the nationwide
  lockdown and guarantine duration.
- The project has deployed a number of mitigations that include extended on-site rosters, securing commitments from critical vendors to remain on site for extended periods and layered screening of personnel.
- Overall underground lateral development has now reached 53,000 equivalent metres (eqm), with development for first drawbell substantially complete.

- The project has now exceeded one million tonnes of material moved through shaft 2 since commissioning and scheduled annual maintenance of the shaft was successfully completed in October 2020 using remote technology.
- Shaft 4 is now out of care and maintenance and the focus is on completing all construction and commissioning activities for load testing and verification, and for sinking to commence in early 2021. Shaft 3 remains on care and maintenance, with some minor construction.
- On 16 December, we <u>confirmed</u> the definitive estimate of cost and schedule for Panel 0 with sustainable production expected to commence in October 2022 and development capital of \$6.75 billion<sup>1</sup>, in line with previously announced ranges. These estimates include the known impacts of COVID-19.<sup>2</sup>
- At peak production, Oyu Tolgoi is expected to operate in the first quartile of the copper cash cost curve<sup>3</sup> and by 2030 is expected to be the fourth largest copper mine in the world. It is expected to produce 480,000 tonnes<sup>4</sup> of copper per year on average, from 2028 to 2036, from the open pit and underground. The underground Ore Reserve has an average copper grade of 1.52%, which is more than three times higher than the open pit Ore Reserve, and contains 0.31 grammes of gold per tonne.<sup>5</sup>

#### Other updates

- On 4 January 2021, the Government of Mongolia advised Rio Tinto that they were dissatisfied with the results of the definitive estimate and the funding implications for the sharing of economic benefits between the shareholders of Oyu Tolgoi. The Government has also stressed the importance of achieving a comprehensive solution which addresses the social issues of importance to Mongolia, such as water usage and the corporate tax payments which have been referred to International Arbitration. We have been engaging with the Government and Turquoise Hill Resources (TRQ) to address these recent challenges within the scope of Parliament Resolution 92, and remain open to improving the Underground Development and Financing Plan (UDP) to deliver even greater benefits from Oyu Tolgoi to all stakeholders.
- Rio Tinto considers that additional milestones need to be met in order to ensure that the project can commence caving operations in 2021, including: outstanding government approvals including registering the updated Resources and Reserves submitted in February 2020 and accepting the updated feasibility study (OTFS20) completed in July 2020 in accordance with the 2009 Investment Agreement and Mongolian regulation; funding as agreed with TRQ in the MOU in <u>September 2020</u>; and, achieving the power milestones agreed with the Government of Mongolia in <u>June 2020</u>. We continue to work closely with our partners, the Government of Mongolia and TRQ in the coming months to finalise these milestones, as outlined in our 16 December release.
- On 22 December, Oyu Tolgoi received a Tax Assessment claim for approximately US\$228 million from
  the Mongolian Tax Authority (MTA), relating to an audit of taxes paid between 2016 and 2018, in addition
  to the \$752 million paid in the same period. Oyu Tolgoi has filed an application to include these matters
  to the pending international arbitration related to the years 2013 to 2015, which are of a similar nature.

### Other key projects and exploration and evaluation

- Phase one of the south wall pushback project at Kennecott remains on track, with access to higher grades expected from 2021.
- The Zulti South project in South Africa remains on full suspension.
- At the Kemano hydropower tunnel project in British Columbia, Canada, tunnel boring works re-started in September 2020. However, due to the escalation of COVID-19 in the province, tunnel boring operations have been temporarily suspended and the workforce has been limited to 160 people following a local order on 29 December. Care and maintenance activities are continuing on site until remobilisation plans can be safely implemented prior to resuming boring operations.
- At the Resolution project in Arizona, the shaft 9 remediation and sinking project was completed in November, four months ahead of schedule and within budget. We now enter the next phase of public comment in the ongoing permitting process led by the US Forest Service (USFS), with the release of its independently prepared Final Environmental Impact Statement (EIS) as announced on 15 January. The delay in publication of the Final EIS, which was originally scheduled for July 2020 by the Obama Administration, is a result of extensive public consultation, significant interagency coordination and COVID-19 related changes to the pace of work. We are committed to ongoing stakeholder engagement in our effort to seek consent to progress the project consistent with the International Council on Mining and Metals (ICMM) Statement on Indigenous Peoples and Mining.
- At the Winu project in Western Australia, drilling and fieldwork activities continue with 90 kilometres of
  drilling completed during 2020. We are actively engaging with the Traditional Owners through on-country
  heritage surveys, monitoring and agreement making, which is expected to continue into 2021, with first
  ore now expected in 2024, subject to regulatory approvals, Traditional Owner and other consents and
  COVID-19 restrictions. We further expanded our ground holdings in the Paterson region with a farm-in
  joint venture signed with Sipa Resources Limited adjoining Winu and the Citadel joint venture tenements.

- At the Simandou iron ore project in Guinea, we expect to complete the first phase of the technical optimisation work on the infrastructure components in the first half of 2021. Activity at the mine area is starting including roadworks. We are progressing the implementation of the project's 2012 Social and Environmental Impact Assessment (SEIA).
- The feasibility study at the Jadar lithium-borate project in Serbia continues and is expected to complete by the end of 2021. If the investment is approved, construction would take approximately four years. The declaration of resources and reserves in December was an important milestone as the project progresses towards the award of an exploitation license, the precursor to a construction licence.
- 1 This estimate is at a better than feasibility study level of accuracy.
  2 The definitive estimate assumes restrictions in 2021 that are no more stringent than those experienced in September 2020. Mongolia implemented further restrictions at the end of 2020 in response to a re-emergence of COVID-19. Should COVID-19 constraints be maintained at December 2020 levels, escalate further in 2021 leading to tougher restrictions, or continue beyond 2021, additional costs and schedule impacts will arise.
- 3 WoodMackenzie copper equivalent cash cost curve (Q3 2020).
- 4 This production target (stated as recovered metal) for the Oyu Tolgoi underground and open pit mines was previously reported in a release to the market on 16 December 2020 (Market release). All material assumptions underpinning the production target continue to apply and have not materially changed. 5 This Ore Reserve estimate was set out in the Market release dated 16 December 2020. The Competent Persons responsible for the information in the Market release that relates to Ore Reserves were Mr Ferrin Prince and Mr Mark Bixley who are a Member and Fellow respectively of The Australasian Institute of Mining and Metallurgy. Rio Tinto confirms that it is not aware of any new information or data that materially affects the information included in the Market release, that all material assumptions and technical parameters underpinning the estimates in the Market release continue to apply and have not materially changed, and that the form and context in which the Competent Persons' findings are presented have not been materially modified.

All figures in this report are unaudited. All currency figures in this report are US dollars, and comments refer to Rio Tinto's share of production, unless otherwise stated. To allow production numbers to be compared on a like-for-like basis, production from asset divestments completed in 2019 is excluded from Rio Tinto share of production data.

#### **IRON ORE**

Rio Tinto share of production (Million tonnes)	Q4 2020	vs Q4 2019	vs Q3 2020	Full Year 2020	vs Full Year 2019
Pilbara Blend and SP10 Lump <sup>1</sup>	21.7	+9%	+19%	77.4	-4%
Pilbara Blend and SP10 Fines <sup>1</sup>	31.1	+3%	-7%	123.3	+3%
Robe Valley Lump	1.4	-13%	-2%	5.6	+10%
Robe Valley Fines	2.6	-6%	+6%	10.5	+14%
Yandicoogina Fines (HIY)	14.2	0%	-9%	58.8	+4%
Total Pilbara production	71.0	+3%	-1%	275.5	+2%
Total Pilbara production (100% basis)	86.0	+3%	0%	333.4	+2%

Rio Tinto share of shipments (Million tonnes)	Q4 2020	vs Q4 2019	vs Q3 2020	Full Year 2020	vs Full Year 2019
Pilbara Blend Lump	16.3	+1%	+5%	62.9	-5%
Pilbara Blend Fines	35.1	+13%	+11%	126.6	+5%
Robe Valley Lump	1.2	0%	+12%	4.6	+14%
Robe Valley Fines	3.1	-6%	+12%	11.5	+9%
Yandicoogina Fines (HIY)	15.1	-1%	+6%	57.7	+1%
SP10 Lump <sup>1</sup>	1.0	-50%	+26%	3.9	-28%
SP10 Fines <sup>1</sup>	1.8	-15%	+19%	6.0	-37%
Total Pilbara shipments <sup>2</sup>	73.6	+3%	+9%	273.1	0%
Total Pilbara shipments (100% basis) <sup>2</sup>	88.9	+2%	+8%	330.6	+1%
Total Pilbara Shipments (consolidated basis) <sup>2, 3</sup>	75.6	+3%	+9%	280.8	0%

<sup>1</sup> SP10 includes other lower grade products.

#### **Pilbara operations**

Pilbara operations produced 333.4 million tonnes (Rio Tinto share 275.5 million tonnes), 2% higher than 2019. Fourth quarter production of 86.0 million tonnes (Rio Tinto share 71.0 million tonnes) was 3% higher than the same period of 2019. Our mines also achieved record total material moved for the year, 7% higher than the previous record from 2019, highlighting the improvements to mine and asset health since 2019. A solid operational performance, considering weather disruptions and strict measures implemented in the second quarter to manage COVID-19.

2020 shipments of 330.6 million tonnes (Rio Tinto share 273.1 million tonnes) were 1% higher than 2019. Shipments were impacted by Cyclone Damien in the first quarter and by the impacts of COVID-19, which also resulted in the deferral of maintenance at the port in the the third quarter. Fourth quarter shipments of 88.9 million tonnes (Rio Tinto share 73.6 million tonnes) were 2% higher than the fourth quarter of 2019.

Whilst the port and rail currently hold the most capacity, the timing impacts of maintenance and grade blending resulted in the gap between final 2020 shipping and production figures.

Achieved realised pricing in 2020 was \$91.0 per wet metric tonne on an FOB basis (equivalent to \$98.9 per dry metric tonne, at 8% moisture assumption). This compares to the average price for the Platts 62% index of \$101.6 per dry metric tonne. In 2019, average pricing was \$79.0 per wet metric tonne (\$85.9 dry metric tonne).

Lower market premiums for lump, which recovered in the fourth quarter, and the rising price environment throughout 2020 impacted our average achieved pricing compared with Platts due to the structure of our contracts, with approximately 13% of shipments in 2020 priced by reference to the prior quarter's average index lagged by one month. The remainder was sold either on current quarter average, current month average or on the spot market. Approximately 30% of 2020 sales were made on a free on board (FOB) basis, with the remainder sold including freight.

<sup>2</sup> Shipments includes material shipped from the Pilbara to our portside trading facility in China which may not be sold onwards by the group in the same period.

<sup>3</sup> While Rio Tinto has a 53% net beneficial interest in Robe River Iron Associates, it recognises 65% of the assets, liabilities, sales revenues and expenses in its accounts (as 30% is held through a 60% owned subsidiary and 35% is held through a 100% owned subsidiary). The consolidated basis sales reported here include Robe River Iron Associates on a 65% basis to enable comparison with revenue reported in the financial statements.

### **China Portside Trading**

We continue to ramp up our port sales in China, with 5.5 million tonnes of sales in 2020 including 1.8 million tonnes in the fourth quarter. Our portside operation handles product from our operations in the Pilbara and in Canada as well as third party product, and provides blending and screening capabilities.

#### **ALUMINIUM**

Rio Tinto share of production ('000 tonnes)	Q4 2020	vs Q4 2019			vs Full Year 2019
Bauxite	13,299	-12%	-8%	56,131	+2%
Bauxite third party shipments	9,104	-17%	-10%	39,357	-1%
Alumina	2,085	+3%	+7%	8,039	+4%
Aluminium	815	+4%	+2%	3,180	0%

#### **Bauxite**

Bauxite production of 56.1 million tonnes was 2% higher than 2019 supported by the ramp-up of the expansion at the CBG mine in Guinea, and steady performance at the Pacific mines, including additional volumes from the start-up of the Amrun mine in 2019.

Fourth quarter bauxite production was 12% lower than the very strong quarter in 2019, reflecting phasing across the year to align with customer needs and a train failure at the Andoom mine at Weipa. This was partly offset by increased production from the expansion at the non-managed CBG mine in Guinea.

We shipped 39.4 million tonnes of bauxite to third parties in 2020, 1% lower than 2019. Shipments were prioritised throughout the year to align with customer needs, with a higher proportion of internal shipments to the Pacific refineries in the fourth quarter.

#### Alumina

Alumina production of 8.0 million tonnes was 4% higher than 2019 and the fourth quarter was 3% higher than the same period of 2019, as a result of strong production at both our Pacific refineries.

#### **Aluminium**

Aluminium production of 3.2 million tonnes was in line with 2019, with lower volumes from the curtailment of Line 4 at the Tiwai Point smelter in New Zealand and from the Kitimat smelter pot relining campaign, offset by the ramp-up of the Becancour smelter in Quebec, following its restart after a lockout at the end of 2019.

Production of 0.8 million tonnes in the fourth quarter was 4% higher than the fourth quarter of 2019 underpinned by the Becancour smelter operating at full capacity and the Kitimat smelter progressing well on its pot relining campaign.

Average realised aluminium prices including both product and market premiums for value-added products (VAP) were down by 9% to \$1,946 per tonne in 2020 (2019: \$2,132 per tonne). The LME price decreased by 5% to \$1,702 per tonne (2019: \$1,791), whilst the mid-west premium duty paid dropped by 2% to \$313 per tonne in 2020 due to the impact of COVID-19 (2019: \$320 per tonne). Our VAP sales dropped to 43% of primary metal sold in 2020 in line with the market (2019: 51%). Product premiums for VAP sales declined by 9% averaging, \$213 per tonne of VAP sold (2019: \$234 per tonne). Market demand for VAP rebounded in the fourth quarter of 2020, returning to normal levels. A 10% tariff on Canadian P1020 aluminium imports into the United States was paid between 6 August and 1 September 2020 under Section 232.

In January 2021, Rio Tinto reached an agreement on a new electricity supply agreement with Meridian Energy that allows New Zealand Aluminium Smelter (NZAS) to continue operating the Tiwai Point smelter until December, 2024. The extension of operations provides certainty to employees, the local community and customers while providing more time for all stakeholders to plan for the future.

Work is ongoing on the strategic review of the ISAL smelter in Iceland, announced in February 2020. In July 2020, we submitted a complaint to the Icelandic Competition Authority (ICA), alleging abuse of market dominance by energy supplier Landsvirkjun. Discussions with Landsvirkjun, to improve the competitiveness of the asset, are ongoing.

#### **COPPER AND DIAMONDS**

Rio Tinto share of production ('000 tonnes)	Q4 2020	vs Q4 2019	vs Q3 2020	Full Year 2020	vs Full Year 2019
Mined copper					
Kennecott	33.8	-4%	-2%	140.0	-25%
Escondida	84.8	-8%	+2%	337.8	-1%
Oyu Tolgoi	14.0	+27%	+15%	50.2	+2%
Refined copper					
Kennecott	40.9	-21%	+292%	84.8	-54%
Escondida	15.2	-26%	+6%	70.2	-7%

Rio Tinto share of production ('000 carats)	Q4 2020	vs Q4 2019	vs Q3 2020		vs Full Year 2019
Argyle	1,893	-44%	-41%	10,945	-16%
Diavik	910	+8%	-9%	3,731	-7%

#### Kennecott

Mined copper production was 25% lower than 2019, due to a 28% reduction in grade. This was as a result of lower grades at the end of the east wall mining and sequencing to optimise molybdenum ore production during the extended smelter shutdown in the second and third quarters. Development in the pit progressed despite the effects from the earthquake in March and COVID-19 disruptions. As a result, grades are expected to gradually increase from 2021, with the transition from east to south wall mining.

Refined copper production was 54% lower than 2019 due to the flash converting furnace rebuild required following the earthquake and delays in restarting the smelter following planned major maintenance in mid-2020. The smelter was safely restarted and became fully operational during October. Approximately 60,000 dry metric tonnes of copper concentrate sales were realised in the fourth quarter to manage inventory as a result of the delayed smelter re-start, taking advantage of the strengthened market.

Molybdenum concentrate production was 82% higher than 2019, due to significantly higher head grades in the lower pit of the east wall mine sequence, and productivity improvements.

#### Escondida

Mined copper production was 1% lower than 2019, mainly due to 15% lower material stacked into the leaching pads as a result of preventive measures in response to COVID-19, which was offset by 5% higher concentrator throughput in 2020. Refined copper was also impacted by lower material stacked into the leach pads.

### Oyu Tolgoi

Mined copper production from the open pit was 2% higher than 2019, reflective of the anticipated move to higher grade areas of the open pit, primarily due to accelerated mine development and production phasing. In the fourth quarter, pit phasing delivered higher gold production (+139%) compared to the prior quarter. Access to higher copper and gold grades is expected to continue throughout 2021. We maintained shipments across the Chinese border despite COVID-19 measures in Mongolia. We continue to work closely with authorities to manage the risk of supply chain disruptions due to COVID-19.

### **Provisional pricing**

At 31 December 2020, the Group had approximately 260 million pounds of copper sales that were provisionally priced at 336 cents per pound. The final price of these sales will be determined during the first half of 2021. This compares with 220 million pounds of open shipments at 31 December 2019, provisionally priced at 271 cents per pound. Provisional pricing adjustments positively impacted revenues in 2020 by \$182 million (2019 positive impact of \$6 million).

#### **Diamonds**

On 3 November, we <u>announced</u> the final day of mining at Argyle after 37 years of operations. The closure process is expected to take five years to decommission and dismantle the mine and undertake rehabilitation, followed by a further period of monitoring. The penultimate Argyle Pink Diamonds tender continued its trajectory of double digit price growth and a record number of participants with successful bidders from eight countries.

At Diavik, carats recovered in 2020 were 7% lower than 2019, with a 10% grade reduction partially offset by an increase in ore tonnes processed.

#### **ENERGY AND MINERALS**

Rio Tinto share of production (million tonnes)	Q4 2020	vs Q4 2019	vs Q3 2020	Full Year 2020	vs Full Year 2019
Iron ore pellets and concentrate					
IOC	2.7	+7%	+17%	10.4	-1%

Rio Tinto share of production ('000 tonnes)	Q4 2020	vs Q4 2019		Full Year 2020	vs Full Year 2019
Minerals					
Borates - B <sub>2</sub> O <sub>3</sub> content	100	-22%	-19%	480	-8%
Titanium dioxide slag	272	-5%	-7%	1,120	-7%

Rio Tinto share of production ('000 lbs)	Q4 2020	vs Q4 2019	vs Q3 2020		vs Full Year 2019
Uranium					
Energy Resources of Australia	742	+16%	+1%	2,870	+9%

### Iron Ore Company of Canada (IOC)

Iron ore pellets and concentrate production was 1% lower than 2019 due to an unplanned maintenance at the processing facilities in the third and fourth quarter. Fourth quarter production was 7% higher than corresponding period in 2019.

On 3 December, we <u>signed</u> a Reconciliation and Collaboration Agreement with the Innu communities of Uashat mak Mani-utenam and Matimekush-Lac John. This long term partnership will provide the foundation for a new mutually beneficial relationship based on dialogue, openness and trust between the company and the two communities over the coming decades.

We have continued the optimisation of IOC product mix to match market demand, returning to higher pellet production with all six lines in operation, following signs of recovery in demand from Europe.

#### **Borates**

Borates production was 8% lower than 2019 due to a period of lower demand related to COVID-19 uncertainty resulting in an adjustment to refinery operating rates. The extension of a planned shutdown impacted fourth quarter production.

#### Iron and Titanium

Titanium dioxide production was 7% lower than 2019, as we focused on our value over volume strategy to match market. We experienced operational challenges at Richards Bay Minerals (RBM) due to a submerged dredge in the fourth quarter, and as a result, production was 5% lower than the corresponding quarter in 2019. Mitigations are in place to ensure customer supply throughout 2021.

#### Uranium

Our share of production was 9% higher than 2019, primarily due to our change in shareholding following completion of ERA's entitlement offer in February 2020 (our shareholding of ERA increased from 68.39 to 86.33 per cent). ERA's Ranger operation continued to process existing stockpiles uninterrupted during the fourth quarter, with production ceasing as of 8 January 2021, as required.

#### **EXPLORATION AND EVALUATION**

Pre-tax and pre-divestment expenditure on exploration and evaluation charged to the profit and loss account for 2020 was \$625 million, compared with \$624 million in 2019. Approximately 42% of this expenditure was incurred by central exploration, 40% by Copper & Diamonds, 9% by Energy & Minerals and 9% by Iron Ore.

There were no significant divestments of central exploration properties in 2020.

#### **Exploration highlights**

Rio Tinto has a strong portfolio of projects with activity in 16 countries across eight commodities in early exploration and studies stages. All projects have followed government COVID-19 requirements and guidelines while focusing on protecting health and well-being of local and Indigenous communities. The bulk of the exploration expenditure in the fourth quarter focused on copper in Australia, Kazakhstan, United States and Zambia, and diamonds projects in Canada. Mine-lease exploration continued at Rio Tinto managed businesses including Pilbara Iron in Australia, and Diavik in Canada.

Our exploration team have won the 2020 Association of Mining and Exploration Companies Prospector of the Year Award in Australia, for our copper-gold discovery at Winu in Western Australia, recognising the most outstanding mineral deposit discovery and the team who made the discovery.

At Falcon, bulk sample processing and final diamond recovery have been completed for ten trenches drilled in 2019, and reported in December 2020. Inspection, valuation and interpretation is ongoing.

A summary of activity for the quarter is as follows:

Commodities	Studies Stage	Advanced projects	Greenfield/ Brownfield
Commodities	Studies Stage	Advanced projects	programmes
Bauxite		Amargosa, Brazil*; Sanxai, Laos*	Cape York, Australia
Base Metals	Copper/molybdenum: Resolution, US; Copper/Gold: Winu, Australia	Copper: La Granja, Peru, Pribrezhniy, Kazakhstan Nickel: Tamarack, US (3rd party operated)	Copper Greenfield: Australia, Chile, China, Kazakhstan, Nicaragua*, Peru, Serbia, US, Zambia, Brazil, Canada, Colombia*, Finland, Kosovo (3rd party operated) Nickel Greenfield: Canada, Finland
Diamonds	Falcon, Canada		Diamonds Greenfield: Canada Diamonds Brownfield: Diavik
Minerals	Lithium borates: Jadar, Serbia Potash: KL262, Canada Heavy mineral sands: Mutamba, Mozambique (3rd party operated)		
Iron Ore	Pilbara, Australia	Pilbara, Australia	Brownfield: Pilbara

<sup>\*</sup>Limited activity during the quarter

#### FORWARD-LOOKING STATEMENT

This announcement includes "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. All statements other than statements of historical facts included in this announcement, including, without limitation, those regarding Rio Tinto's financial position, business strategy, plans and objectives of management for future operations (including development plans and objectives relating to Rio Tinto's products, production forecasts and reserve and resource positions and any statements related to the ongoing impact of the COVID-19 pandemic), are forward-looking statements. The words "intend", "aim", "project", "anticipate", "estimate", "plan", "believes", "expects", "may", "would", "should", "could", "will", "target", "set to", "seek", "risk" or similar expressions, commonly identify such forward-looking statements.

Such forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of Rio Tinto, or industry results, to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. Such forward-looking statements are based on numerous assumptions regarding Rio Tinto's present and future business strategies and the environment in which Rio Tinto will operate in the future. Among the important factors that could cause Rio Tinto's actual results, performance or achievements to differ materially from those in the forward-looking statements are levels of actual production during any period, levels of demand and market prices, the ability to produce and transport products profitably, the impact of foreign currency exchange rates on market prices and operating costs, operational problems, political uncertainty and economic conditions in relevant areas of the world, the actions of competitors, activities by governmental authorities such as changes in taxation or regulation, the risks and uncertainties associated with the ongoing impacts of COVID-19 or other pandemic and such other risk factors 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. The above list is not exhaustive. Forward-looking statements should, therefore, be construed in light of such risk factors and undue reliance should not be placed on forward-looking statements, particularly in light of the current economic climate and the significant volatility, uncertainty and disruption caused by the outbreak of COVID-19. These forward-looking statements speak only as of the date of this announcement. 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.

Nothing in this announcement should be interpreted to mean that future earnings per share of Rio Tinto plc or Rio Tinto Limited will necessarily match or exceed its historical published earnings per share.

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

LEI: 213800YOEO5OQ72G2R82

Classification: 3.1 Additional regulated information required to be disclosed under the laws of a Member State

# **Rio Tinto production summary**

('000 oz)

('000 oz)

1,209

839

1,133

70

Silver - mined

Silver - refined

## **Rio Tinto share of production**

			Quarter			Full	Year			% cnange	•
		2019 Q4	2020 Q3	2020 Q4		2019	2020		Q4 20 vs Q4 19	Q4 20 vs Q3 20	2020 vs 2019
Principal commodities					,				<u> </u>	<b>G</b> 0 <b>L</b> 0	2010
Alumina	('000 t)	2,032	1,954	2,085		7,744	8,039		+3%	+7%	+4%
Aluminium	('000 t)	783	797	815		3,171	3,180		+4%	+2%	0%
Bauxite	('000 t)	15,137	14,459	13,299		55,105	56,131		-12%	-8%	+2%
Borates	('000 t)	128	123	100		520	480		-22%	-19%	-8%
Copper - mined	('000 t)	138.7	129.6	132.5		577.4	527.9		-4%	+2%	-9%
Copper - refined	('000 t)	71.9	24.8	56.1		259.6	155.0		-22%	+126%	-40%
Diamonds	('000 cts)	4,203	4,204	2,803		17,030	14,676		-33%	-33%	-14%
Iron Ore	('000 t)	71,352	73,707	73,749		281,192	285,932		+3%	0%	+2%
Titanium dioxide slag	('000 t)	286	293	272		1,206	1,120		-5%	-7%	-7%
Uranium	('000 lbs)	642	735	742		2,640	2,870		+16%	+1%	+9%
Other Metals & Minerals								,			
Gold - mined	('000 oz)	75.0	68.7	89.1		389.7	283.0		+19%	+30%	-27%
Gold - refined	('000 oz)	63.3	3.7	38.9		218.7	117.5		-39%	+965%	-46%
Molybdenum	('000 t)	4.7	5.1	6.4		11.2	20.4		+37%	+25%	+82%
Salt	('000 t)	1,450	1,279	1,113		5,422	4,861		-23%	-13%	-10%

Throughout this report, figures in italics indicate adjustments made since the figure was previously quoted on the equivalent page or reported for the first time. Production figures are sometimes more precise than the rounded numbers shown, hence small differences may result between the total of the quarter figures and the year to date figures.

1,120

449

5,412

2,853

4,357

1,363

-7%

-46%

-1%

+542%

-19%

-52%

	Rio Tinto interest	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Full Year 2019	Full Year 2020
ALUMINA								
Production ('000 tonnes)								
Jonquière (Vaudreuil)	100 %	345	373	340	347	364	1,413	1,424
Jonquière (Vaudreuil) specialty Alumina	100 /6	343	3/3	340	347	304	1,413	1,424
plant	100 %	24	24	25	22	24	109	94
Queensland Alumina	80 %	716	713	711	763	774	2,763	2,961
São Luis (Alumar)	10 %	97	94	95	98	99	368	385
Yarwun	100 %	850	806	820	725	823	3,091	3,175
Rio Tinto total alumina production		2,032	2,010	1,990	1,954	2,085	7,744	8,039
ALUMINIUM								
Production ('000 tonnes)								
Australia - Bell Bay	100 %	48	47	49	48	48	189	192
Australia - Boyne Island	59 %	74	75	75	76	77	296	303
Australia - Tomago	52 %	76	75	76	77	77	303	305
Canada - six wholly owned	100 %	383	375	370	375	387	1,582	1,506
Canada - Alouette (Sept-Îles)	40 %	62	61	62	63	63	241	249
Canada - Bécancour	25 %	7	18	26	26	29	19	98
Iceland - ISAL (Reykjavik)	100 %	43	45	44	46	48	184	183
New Zealand - Tiwai Point	79 %	69	67	65	66	67	279	265
Oman - Sohar	20 %	20	20	20	20	20	78	79
Rio Tinto total aluminium production		783	783	785	797	815	3,171	3,180
BAUXITE								
Production ('000 tonnes) (a)								
Gove	100 %	3,273	2,876	3,186	3,147	3,090	12,201	12,299
Porto Trombetas	12 %	371	338	270	396	392	1,327	1,395
Sangaredi	(b)	1,227	1,879	1,742	1,920	1,887	6,165	7,428
Weipa	100 %	10,267	8,720	9,362	8,997	7,929	35,411	35,009
Rio Tinto total bauxite production		15,137	13,813	14,560	14,459	13,299	55,105	56,131

(a) Mine production figures for metals refer to the total quantity of metal produced in concentrates, leach liquor or doré bullion irrespective of whether these products are then refined onsite, except for the data for bauxite and iron ore which represent production of marketable quantities of ore plus concentrates and pellets.

(b) Rio Tinto has a 22.95% shareholding in the Sangaredi mine but benefits from 45.0% of production.

	Rio Tinto interest	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Full Year 2019	Full Year 2020
	interest	2019	2020	2020	2020	2020	2019	2020
BORATES								
Production ('000 tonnes B <sub>2</sub> O <sub>3</sub> content)								
Rio Tinto Borates - borates	100 %	128	126	132	123	100	520	480
COPPER								
Mine production ('000 tonnes) (a)								
Bingham Canyon	100 %	35.4	35.0	36.5	34.7	33.8	186.8	140.0
Escondida	30 %	92.3	86.2	84.0	82.8	84.8	341.6	337.8
Oyu Tolgoi (b)	34 %_	11.0	11.8	12.2	12.2	14.0	49.1	50.2
Rio Tinto total mine production	_	138.7	133.0	132.8	129.6	132.5	577.4	527.9
Refined production ('000 tonnes)								
Escondida	30 %	20.5	20.9	19.7	14.4	15.2	75.0	70.2
Rio Tinto Kennecott	100 %_	51.4	26.4	7.2	10.4	40.9	184.6	84.8
Rio Tinto total refined production		71.9	47.2	26.9	24.8	56.1	259.6	155.0

(a) Mine production figures for metals refer to the total quantity of metal produced in concentrates, leach liquor or doré bullion irrespective of whether these products are then refined onsite, except for the data for bauxite and iron ore which represent production of marketable quantities of ore plus concentrates and pellets.

(b) Rio Tinto owns a 33.52% indirect interest in Oyu Tolgoi through its 50.79% interest in Turquoise Hill Resources Ltd.

#### **DIAMONDS**

Rio Tinto Kennecott

Production ('000 carats)								
Argyle	100 %	3,363	2,578	3,271	3,203	1,893	12,999	10,945
Diavik	60 %	840	857	963	1,001	910	4,031	3,731
Rio Tinto total diamond production		4,203	3,434	4,235	4,204	2,803	17,030	14,676
GOLD								
Mine production ('000 ounces) (a)								
Bingham Canyon	100 %	52.0	41.9	40.2	43.7	45.3	234.7	171.2
Escondida	30 %	14.8	10.8	13.0	12.7	14.3	74.0	50.9
Oyu Tolgoi (b)	34 %_	8.2	8.8	10.4	12.3	29.4	81.1	61.0
Rio Tinto total mine production		75.0	61.5	63.6	68.7	89.1	389.7	283.0
Refined production ('000 ounces)								

(a) Mine production figures for metals refer to the total quantity of metal produced in concentrates, leach liquor or doré bullion irrespective of whether these products are then refined onsite, except for the data for bauxite and iron ore which represent production of marketable quantities of ore plus concentrates and pellets.

(b) Rio Tinto owns a 33.52% indirect interest in Oyu Tolgoi through its 50.79% interest in Turquoise Hill Resources Ltd.

44.8

30.1

38.9

218.7 **117.5** 

63.3

100 %

F	Rio Tinto interest	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Full Year 2019	Full Year 2020
IRON ORE								
Production ('000 tonnes) (a)								
Hamersley mines	(b)	52,521	49,327	53,187	54,852	53,316	209,392	210,682
Hamersley - Channar (c)	100 %	1,452	1,160	1,334	1,710	1,935	4,782	6,139
Hope Downs	50 %	6,047	5,667	5,659	6,625	6,571	24,132	24,522
Iron Ore Company of Canada	59 %	2,564	2,560	2,762	2,340	2,740	10,536	10,402
Robe River - Pannawonica (Mesas J and A)	53 %	4,360	3,880	4,307	3,882	3,988	14,284	16,056
Robe River - West Angelas	53 %	4,409	4,193	4,440	4,298	5,199	18,066	18,131
Rio Tinto iron ore production ('000 tonnes)		71,352	66,787	71,689	73,707	73,749	281,192	285,932
Breakdown of Production:								
Pilbara Blend and SP10 Lump (d)		19,930	18,504	18,970	18,253	21,666	80,766	77,393
Pilbara Blend and SP10 Fines (d)		30,304	27,734	30,866	33,570	31,122	119,260	123,292
Robe Valley Lump		1,574	1,472	1,326	1,399	1,364	5,060	5,561
Robe Valley Fines		2,786	2,407	2,981	2,483	2,624	9,224	10,496
Yandicoogina Fines (HIY)		14,194	14,110	14,784	15,662	14,233	56,346	58,789
Pilbara iron ore production ('000 tonnes)		68,788	64,227	68,927	71,366	71,009	270,655	275,530
IOC Concentrate		1,146	923	1,523	1,038	1,297	4,629	4,781
IOC Pellets		1,418	1,637	1,240	1,302	1,443	5,908	5,622
IOC iron ore production ('000 tonnes)		2,564	2,560	2,762	2,340	2,740	10,536	10,402
Breakdown of Shipments:								
Pilbara Blend Lump		16,176	14,385	16,700	15,514	16,280	65,906	62,878
Pilbara Blend Fines		31,182	26,692	33,036	31,710	35,140	120,243	126,578
Robe Valley Lump		1,246	1,132	1,118	1,112	1,246	4,030	4,608
Robe Valley Fines		3,259	2,688	2,999	2,724	3,062	10,493	11,473
Yandicoogina Fines (HIY)		15,260	12,913	15,578	14,203	15,055	57,052	57,749
SP10 Lump (d)		2,072	1,006	1,014	822	1,037	5,391	3,879
SP10 Fines (d)		2,081	1,089	1,603	1,488	1,771	9,427	5,951
Pilbara iron ore shipments ('000 tonnes) (e)		71,277	59,903	72,048	67,574	73,590	272,540	273,115
Pilbara iron ore shipments - consolidated basis ('000	tonnes)	73 ///1	61 720	73,976	60 106	75 630	279,959	280,831
(e) (g) IOC Concentrate		1,223	1,006	1,410	1,355	1,157	4,479	4,928
IOC Pellets		1,413	1,769	1,320	1,378	1,539	5,641	6,006
IOC Iron ore shipments ('000 tonnes) (e)		2,636	2,775	2,731	2,733	2,696	10,120	10,934
Rio Tinto iron ore shipments ('000 tonnes) (e)			•	74,779			282,660	284,050
Rio Tinto iron ore sales ('000 tonnes) (f)				74,779		•	281,081	282,998
The fille for the sales ( our tollies) (1)		12,004	02,433	14,000	05,553	13,103	201,001	202,330

(a) Mine production figures for metals refer to the total quantity of metal produced in concentrates, leach liquor or doré bullion irrespective of whether these products are then refined onsite, except for the data for bauxite and iron ore which represent production of marketable quantities of ore plus concentrates and pellets.

(b) Includes 100% of production from Paraburdoo, Mt Tom Price, Western Turner Syncline, Marandoo, Yandicoogina, Brockman, Nammuldi, Silvergrass and the Eastern Range mines. Whilst Rio Tinto owns 54% of the Eastern Range mine, under the terms of the joint venture agreement, Hamersley Iron manages the operation and is obliged to purchase all mine production from the joint venture and therefore all of the production is included in Rio Tinto's share of production.

<sup>(</sup>c) Rio Tinto's ownership interest in Channar mine increased from 60% to 100%, following conclusion of its joint venture with Sinosteel Corporation upon reaching planned 290 million tonnes production on 22 October 2020. Production is reported at 100% from this date onward. Historic data is unchanged.

(d) SP10 include other lower grade products.

<sup>(</sup>e) Shipments includes material shipped to our portside trading facility in China which may not be sold onwards in the same period.

<sup>(</sup>f) Represents the difference between amounts shipped to portside trading and onward sales from portside trading, and third party volumes sold.
(g) While Rio Tinto has a 53% net beneficial interest in Robe River Iron Associates, it recognises 65% of the assets, liabilities, sales revenues and expenses in its accounts

<sup>(</sup>g) While Rio Tinto has a 53% net beneficial interest in Robe River Iron Associates, it recognises 65% of the assets, liabilities, sales revenues and expenses in its accounts (as 30% is held through a 60% owned subsidiary and 35% is held through a 100% owned subsidiary). The consolidated basis sales reported here include Robe River Iron Associates on a 65% basis to enable comparison with revenue reported in the financial statements.

	Rio Tinto interest	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Full Year 2019	Full Year 2020
MOLYBDENUM								
Mine production ('000 tonnes) (a)								
Bingham Canyon	100 %	4.7	5.1	3.9	5.1	6.4	11.2	20.4

(a) Mine production figures for metals refer to the total quantity of metal produced in concentrates, leach liquor or doré bullion irrespective of whether these products are nen refined onsite, except for the data for bauxite and iron ore which represent production of marketable quantities of ore plus concentrates and pellets

68 %	1,450	1,044	1,425	1,279	1,113	5,422	4,861
100 %	605	538	526	586	555	2,815	2,205
30 %	539	417	480	474	488	2,306	1,859
34 %_	64	72	71	73	77	290	293
_	1,209	1,027	1,077	1,133	1,120	5,412	4,357
100 %	839	462	382	70	449	2,853	1,363
	100 % 30 % 34 %_	100 % 605 30 % 539 34 % 64 1,209	100 % 605 538 30 % 539 417 34 % 64 72 1,209 1,027	100 % 605 538 526 30 % 539 417 480 34 % 64 72 71 1,209 1,027 1,077	100 % 605 538 526 586 30 % 539 417 480 474 34 % 64 72 71 73 1,209 1,027 1,077 1,133	100 % 605 538 526 586 <b>555</b> 30 % 539 417 480 474 <b>488</b> 34 % 64 72 71 73 <b>77</b> 1,209 1,027 1,077 1,133 <b>1,120</b>	100 % 605 538 526 586 <b>555</b> 2,815 30 % 539 417 480 474 <b>488</b> 2,306 34 % 64 72 71 73 <b>77</b> 290 1,209 1,027 1,077 1,133 <b>1,120</b> 5,412

(a) Mine production figures for metals refer to the total quantity of metal produced in concentrates, leach liquor or doré bullion irrespective of whether these products are then refined onsite, except for the data for bauxite and iron ore which represent production of marketable quantities of ore plus concentrates and pellets. (b) Rio Tinto owns a 33.52% indirect interest in Oyu Tolgoi through its 50.79% interest in Turquoise Hill Resources Ltd.

TITANIUM DIOXIDE SLAG								
Production ('000 tonnes)								
Rio Tinto Iron & Titanium (a)	100 %	286	293	262	293	272	1,206	1,120

(a) Quantities comprise 100% of Rio Tinto Fer et Titane and Rio Tinto's 74% interest in Richards Bay Minerals (RBM).

URANIUM								
Production ('000 lbs U <sub>3</sub> O <sub>8</sub> ) (a)								
Energy Resources of Australia	86 %	642	676	718	735	742	2,640	2,870

(a) ERA production data are drummed U₃O₃.
On 25 February 2020, Rio Tinto's ownership interest in ERA increased from 68.39% to 86.33%, following completion of its offer to ensure ERA has the funds it needs to meet its current rehabilitation obligations. Production is reported including this change from 1 March 2020.

Rio Tinto's interest in the Rössing operations were sold in 2019. No data for these operations are included in the Share of production table.

Production figures are sometimes more precise than the rounded numbers shown, hence small differences may result between the total of the quarter figures and the year to date figures

The Rio Tinto percentage shown above is at 31 December 2020.

	Rio Tinto interest	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Full Year 2019	Full Year 2020
ALUMINA								
Smelter Grade Alumina - Aluminium Group								
Alumina production ('000 tonnes)								
Australia								
Queensland Alumina Refinery - Queensland	80.0 %	895	891	889	953	968	3,454	3,701
Yarwun refinery - Queensland	100.0 %	850	806	820	725	823	3,091	3,175
Brazil								
São Luis (Alumar) refinery	10.0 %	966	936	945	976	990	3,679	3,848
Canada								
Jonquière (Vaudreuil) refinery - Quebec (a)	100.0 %	345	373	340	347	364	1,413	1,424

(a) Jonquière's (Vaudreuil's) production shows smelter grade alumina only and excludes hydrate produced and used for specialty alumina.

Speciality Alumina - Aluminium Group Speciality alumina production ('000								
Canada								
Jonquière (Vaudreuil) plant – Quebec	100.0 %	24	24	25	22	24	109	94

Rio Tinto percentage interest shown above is at 31 December 2020. The data represent full production and sales on a 100% basis unless otherwise stated.

	Rio Tinto interest	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Full Year 2019	Full Year 2020
ALUMINIUM								
Primary Aluminium								
Primary aluminium production ('000								
Australia								
Bell Bay smelter - Tasmania	100.0 %	48	47	49	48	48	189	192
Boyne Island smelter - Queensland	59.4 %	125	126	126	128	129	499	510
Tomago smelter - New South Wales	51.6 %	148	145	148	150	149	588	592
Canada								
Alma smelter - Quebec	100.0 %	119	118	118	118	119	472	473
Alouette (Sept-Îles) smelter - Quebec	40.0 %	155	153	155	156	158	602	623
Arvida smelter - Quebec	100.0 %	44	44	42	41	41	175	169
Arvida AP60 smelter - Quebec	100.0 %	15	15	15	15	15	60	60
Bécancour smelter - Quebec	25.1 %	28	72	102	104	115	77	393
Grande-Baie smelter - Quebec	100.0 %	59	58	55	55	57	233	225
Kitimat smelter - British Columbia	100.0 %	81	76	78	84	91	385	329
Laterrière smelter - Quebec	100.0 %	65	64	62	62	63	257	250
Iceland								
ISAL (Reykjavik) smelter	100.0 %	43	45	44	46	48	184	183
New Zealand								
Tiwai Point smelter	79.4 %	87	84	82	84	84	351	333
Oman								
Sohar smelter	20.0 %	98	99	99	100	100	391	397

Rio Tinto percentage interest shown above is at 31 December 2020. The data represent full production and sales on a 100% basis unless otherwise stated.

	Rio Tinto interest	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Full Year 2019	Full Year 2020
BA119/1=								
BAUXITE								
Bauxite production ('000 tonnes)  Australia								
Gove mine - Northern Territory	100.0 %	3,273	2,876	3,186	3,147	3,090	12,201	12,299
Weipa mine - Queensland	100.0 %	•	8,720	9,362	8,997	7,929	35,411	35,009
Brazil	100.0 70	. 0,20.	0,. 20	0,002	0,00.	.,0_0	00,	00,000
Porto Trombetas (MRN) mine	12.0 %	3,090	2,814	2,251	3,296	3,268	11,060	11,629
Guinea								
Sangaredi mine (a)	23.0 %	2,727	4,175	3,871	4,267	4,193	13,701	16,506
Rio Tinto share of bauxite shipments								
Share of total bauxite shipments ('000 tonne	es)	14,849	13,567	14,668	14,117	12,993	54,607	55,345
Share of third party bauxite shipments ('000	tonnes)	10,968	9,469	10,721	10,064	9,104	39,648	39,357
(a) Rio Tinto has a 22.95% shareholding in the Sangaredi n	nine but benefits from	m 45 0% of	production					
(-)								
	Rio Tinto	Q4	Q1	Q2	Q3	Q4	Full Year	Full Year
	interest	2019	2020	2020	2020	2020	2019	2020
BORATES								
Rio Tinto Borates - borates	100.0 %							
US								
Borates ('000 tonnes) (a)		128	126	132	123	100	520	480
(a) Production is expressed as $B_2O_3$ content.								
	Rio Tinto	04	01	02	03	Q4	Full Year	Full Year
	interest	Q4 2019	Q1 2020	Q2 2020	Q3 2020	2020	2019	2020
COPPER & GOLD								
Escondida	30.0 %							
Chile	00.0 70							
Sulphide ore to concentrator ('000 tonnes)		33,659	33 //0	34,755	3/1 733	36,303	132,161	139,230
,		0.87	0.82	0.81	0.85	0.83	0.85	0.83
Average copper grade (%)  Mill production (metals in concentrates):		0.07	0.02	0.01	0.05	0.03	0.03	0.03
,		0.40.4	200.0	000.0	0.40.0	0404	000.0	2500
Contained copper ('000 tonnes)		246.1	230.0	236.8	243.9	246.1	938.9	956.8
Contained gold ('000 ounces)		49.2	36.0	43.4	42.3	47.8	246.7	169.5
Contained silver ('000 ounces)		1,798	1,390	1,599	1,580	1,627	7,687	6,196
Recoverable copper in ore stacked for leach tonnes) (a)	ning ('000	61.7	57.2	43.3	32.1	36.5	199.7	169.1
Refined production from leach plants:								
Copper cathode production ('000 tonnes)		68.4	69.6	65.5	47.9	50.8	250.2	233.9

Rio Tinto percentage interest shown above is at 31 December 2020. The data represent full production and sales on a 100% basis unless otherwise stated.

(a) The calculation of copper in material mined for leaching is based on ore stacked at the leach pad.

	Rio Tinto interest	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Full Year 2019	Full Year 2020
COPPER & GOLD (continued)								
Rio Tinto Kennecott								
Bingham Canyon mine	100.0 %							
Utah, US								
Ore treated ('000 tonnes)		11,141	10,315	10,083	12,860	11,418	42,033	44,676
Average ore grade:								
Copper (%)		0.36	0.37	0.41	0.32	0.34	0.50	0.36
Gold (g/t)		0.23	0.22	0.23	0.21	0.22	0.28	0.22
Silver (g/t)		2.09	2.16	2.14	2.00	2.07	2.60	2.08
Molybdenum (%)		0.061	0.058	0.056	0.053	0.068	0.043	0.059
Copper concentrates produced ('000 tonnes)		156	148	135	140	138	731	561
Average concentrate grade (% Cu)		22.6	23.7	26.6	24.7	24.2	25.5	24.8
Production of metals in copper concentrates:								
Copper ('000 tonnes) (a)		35.4	35.0	36.5	34.7	33.8	186.8	140.0
Gold ('000 ounces)		52.0	41.9	40.2	43.7	45.3	234.7	171.2
Silver ('000 ounces)		605	538	526	586	555	2,815	2,205
Molybdenum concentrates produced ('000 tonnes):		9.4	10.4	7.8	10.3	12.2	22.4	40.7
Molybdenum in concentrates ('000 tonnes)		4.7	5.1	3.9	5.1	6.4	11.2	20.4
Kennecott smelter & refinery	100.0 %							
Copper concentrates smelted ('000 tonnes)		216	161	51	1	234	787	448
Copper anodes produced ('000 tonnes) (b)		53.7	24.0	(2.1)	20.2	44.8	186.6	86.9
Production of refined metal:								
Copper ('000 tonnes)		51.4	26.4	7.2	10.4	40.9	184.6	84.8
Gold ('000 ounces) (c)		63.3	44.8	30.1	3.7	38.9	218.7	117.5
Silver ('000 ounces) (c)		839	462	382	70	449	2,853	1,363

 <sup>(</sup>a) Includes a small amount of copper in precipitates.
 (b) New metal excluding recycled material.
 (c) Includes gold and silver in intermediate products.

Rio Tinto percentage interest shown above is at 31 December 2020. The data represent full production and sales on a 100% basis unless otherwise stated.

	Rio Tinto interest	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Full Year 2019	Full Year 2020
COPPER & GOLD (continued)								
Turquoise Hill Resources								
Oyu Tolgoi mine (a)	33.5 %							
Mongolia								
Ore Treated ('000 tonnes)		11,088	10,889	9,645	10,072	9,594	40,777	40,200
Average mill head grades:								
Copper (%)		0.42	0.42	0.47	0.45	0.50	0.45	0.46
Gold (g/t)		0.15	0.15	0.19	0.21	0.41	0.29	0.24
Silver (g/t)		1.06	1.14	1.22	1.22	1.16	1.13	1.18
Copper concentrates produced ('000 tonnes)		152.6	164.5	169.9	168.5	190.2	674.6	693.1
Average concentrate grade (% Cu)		21.6	21.4	21.5	21.5	21.9	21.7	21.6
Production of metals in concentrates:								
Copper in concentrates ('000 tonnes)		32.9	35.2	36.5	36.3	41.6	146.3	149.6
Gold in concentrates ('000 ounces)		24.3	26.2	31.1	36.7	87.8	241.8	181.9
Silver in concentrates ('000 ounces)		190	214	212	219	231	867	876
Sales of metals in concentrates:								
Copper in concentrates ('000 tonnes)		32.3	25.8	39.7	34.4	37.9	149.9	137.8
Gold in concentrates ('000 ounces)		24.7	19.7	30.8	33.6	65.8	273.6	150.0
Silver in concentrates ('000 ounces)		244	146	220	201	194	896	760

<sup>(</sup>a) Rio Tinto owns a 33.52% indirect interest in Oyu Tolgoi through its 50.79% interest in Turquoise Hill Resources.

	Rio Tinto interest	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Full Year 2019	Full Year 2020
DIAMONDS								
Argyle Diamonds	100.0 %							
Western Australia								
AK1 ore processed ('000 tonnes)		1,977	1,322	1,571	1,802	1,078	6,367	5,773
AK1 diamonds produced ('000 carats)		3,363	2,578	3,271	3,203	1,893	12,999	10,945
Diavik Diamonds	60.0 %							
Northwest Territories, Canada								
Ore processed ('000 tonnes)		516	571	626	679	643	2,435	2,518
Diamonds recovered ('000 carats)		1,400	1,428	1,606	1,668	1,517	6,719	6,218

Rio Tinto percentage interest shown above is at 31 December 2020. The data represent full production and sales on a 100% basis unless otherwise stated.

Robe Valley Fines         6,149         5,071         5,659         5,140         5,778         19,797         21,648           Yandicoogina Fines (HIY)         15,260         12,913         15,578         14,203         15,055         57,052         57,749           SP10 Lump (c)         2,072         1,006         1,014         822         1,037         5,391         3,879           SP10 Fines (c)         2,081         1,089         1,603         1,488         1,771         9,427         5,951           Total shipments ('000 tonnes) (d)         86,779         72,916         86,811         82,099         88,873         327,408         330,570           Included Septiments ('000 tonnes) (d)         86,779         72,916         86,681         82,099         88,873         327,408         330,570           Included Septiments ('000 tonnes) (d)         58,779         2,916         2020		Rio Tinto interest	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Full Year 2019	Full Year 2020
Rotation Fine   Rotation   Rota	IDON ODE								
Western Australia         Pilbara Operations         Saleable iron ore production (7000 tonnes)         Saleable iron ore production (7000 tonnes)         4         9,327         53,187         54,852         53,166         209,392         210,682           Hamersley mines         (a) 52,521         49,327         53,187         54,852         53,166         7,979         9,175           Hope Downs         50,0%         12,005         1,334         11,318         13,252         13,124         48,264         49,045           Robe River - Pannawonica (Mesas J and A)         53,0%         8,218         7,320         8,126         7,324         7,525         20,951         34,208           Robe River - West Angelas         53,0%         8,318         7,912         8,328         8,368         85,66         33,406           Breakdown of total production         24,322         22,592         23,222         2,674         25,888         98,119         94,375           Pilbara Blend and SP10 Lump (c)         2,4326         25,592         3,242         2,674         25,888         98,119         94,375           Robe Valley Lump         2,963         3,774         1,624         1,14         1,14         1,14         1,78         1,26         1,233									
Pillbara Operations									
Saleable iron ore production (1000 tonners)									
Hamersley mines	•								
Hamersley - Channar (b)		(-)	50 504	40.007	FO 407	54.050	50.040	000 000	040.000
Hope Downs	•	` ,				•	,	•	
Robe River - Pannawonica (Mesas J and A)   53.0%   8.25%   7.320   8.126   7.324   7.325   26.951   34.295   Robe River - West Angelas   53.0%   8.318   7.912   8.378   8.110   9.809   34.086   34.209   32.000   32.000   33.3405   33.							•	•	
Robe River - West Angelas	•								
Total production (000 tonnes)   83,579   78,27   83,232   86,385   85,961   326,663   333,405   Breakdown of total production:   Pilibara Blend and SP10 Lump (c)   24,326   22,592   23,222   22,674   25,888   98,119   94,375     Pilibara Blend and SP10 Fines (c)   36,833   33,806   37,100   40,725   38,316   145,247   149,947     Robe Valley Lump   2,969   2,778   2,502   4,685   4,951   17,404   19,803     Yandicoogina Fines (HIY)   14,110   14,78   15,662   14,233   56,346   58,789     Breakdown of total shipments:   Pilibara Blend Lump   19,680   77,506   20,339   19,118   20,155   79,630   77,117     Pilibara Blend Fines   39,186   33,197   40,379   39,230   42,727   148,508   155,533     Robe Valley Lump   2,350   2,135   2,100   20,339   3,140   5,778   19,979   21,648     Robe Valley Lump   2,350   2,135   2,100   2,039   3,140   5,778   19,797   21,648     Robe Valley Fines   6,149   5,071   5,659   5,140   5,778   19,797   21,648     Yandicoogina Fines (HIY)   15,260   2,031   1,089   1,655   57,052   57,749     SP10 Lump (c)   2,072   1,086   1,089   1,680   1,089   1,680   1,711     SP10 Lump (c)   2,072   1,086   1,089   1,089   1,089   1,089   1,089     SP10 Fines (c)   2,081   1,089   1,680   1,711   9,427   5,951     Total shipments ('000 tonnes) (d)   86,779   7,916   8,681   3,985   4,686   1,714   9,427   5,951     Total Shipments ('000 tonnes)   1,951   1,572   2,593   1,768   2,208   7,883   8,141     Pellets ('000 tonnes)   2,415   2,788   2,112   2,217   2,457   1,061   9,574     Concentrates ('000 tonnes)   2,415   2,788   2,112   2,217   2,457   1,061   9,574     Concentrates ('000 tonnes)   2,483   1,713   2,402   2,307   1,970   7,628   8,392     Pellets ('000 tonnes)   2,483   1,713   2,402   2,307   1,970   7,628   8,392     Concort Total Shipments ('000 tonnes)   2,486   3,748   3,748   3,748   3,948	· · · · · · · · · · · · · · · · · · ·								
Pilbara Blend and SP10 Lump (c)		53.0 %							
Pilbara Blend and SP10 Lump (c)			83,579	77,827	83,232	86,385	85,961	326,663	333,405
Pilbara Blend and SP10 Fines (c)									
Robe Valley Lump						•	,	•	
Robe Valley Fines   5,256   4,542   5,625   4,685   4,951   17,404   19,803   Yandicoogina Fines (HIY)   14,194   14,110   14,784   15,662   14,233   56,346   58,789   18,804   18,8						•			
Nama								•	
Prilbara Blend Lump						•			
Pilbara Blend Lump			14,194	14,110	14,784	15,662	14,233	56,346	58,789
Pilbara Blend Fines   39,186   33,197   40,379   39,230   42,727   148,508   155,533   Robe Valley Lump   2,350   2,135   2,110   2,098   2,351   7,603   8,694   Robe Valley Fines   6,149   5,071   5,659   5,140   5,778   19,797   21,648   Yandicoogina Fines (HIY)   15,260   2,972   1,006   1,014   822   1,037   5,951   3,879   SP10 Lump (c)   2,081   1,089   1,603   1,488   1,771   9,427   5,951   7,614   7,975   7,615   7,									
Robe Valley Lump   Capta   C	Pilbara Blend Lump					•		•	
Robe Valley Fines         6,149         5,071         5,659         5,140         5,778         19,797         21,648           Yandicoogina Fines (HIY)         15,260         12,913         15,578         14,203         15,055         57,052         577,49           SP10 Lump (c)         2,072         1,006         1,014         822         1,037         5,391         3,879           SP10 Fines (c)         2,081         1,089         1,603         1,488         1,771         9,427         5,951           Total shipments ('000 tonnes) (d)         86,779         72,916         86,681         82,099         88,873         327,408         330,570           Iron Ore Company of Canada         58.7%         2,792         2020	Pilbara Blend Fines			33,197		•	42,727		
Yandicoogina Fines (HIY)         15,260         12,913         15,578         14,203         15,055         57,052         57,493           SP10 Lump (c)         2,072         1,006         1,014         822         1,037         5,391         3,879           SP10 Fines (c)         2,081         1,089         1,603         1,488         1,771         9,427         5,951           Total shipments ('000 tonnes) (d)         86,779         72,916         86,681         82,099         88,873         327,408         330,570           Iron Ore Company of Canada         58.7%         2019         2020 <t< td=""><td>Robe Valley Lump</td><td></td><td>2,350</td><td>2,135</td><td>2,110</td><td>2,098</td><td>2,351</td><td>7,603</td><td>8,694</td></t<>	Robe Valley Lump		2,350	2,135	2,110	2,098	2,351	7,603	8,694
SP10 Lump (c)         2,072         1,006         1,014         822         1,037         5,391         3,879           SP10 Fines (c)         2,081         1,089         1,603         1,488         1,771         9,427         5,951           Total shipments ('000 tonnes) (d)         86,779         72,916         86,681         82,099         88,873         327,408         330,570           Iron Ore Company of Canada         58.7 %         2         2         2         Q2         Q2         Q2         Pull Year         Pull Year         Pull Year           Newfoundland & Labrador and Quebec in Canada         58.7 %         8         8         8         8         8         1,572         2,593         1,768         2,088         8,141           Pellets ('000 tonnes)         1,951         1,572         2,593         1,768         2,088         8,141           Pellets ('000 tonnes)         2,415         2,788         2,112         2,217         2,457         10,061         9,574           IOC Total production ('000 tonnes)         4,366         4,360         4,704         3,985         4,666         17,943         17,715           Shipments:         2         2,083         1,713         2,402	Robe Valley Fines		6,149	5,071	5,659	5,140	5,778	19,797	21,648
SP10 Fines (c)         2,081         1,089         1,603         1,488         1,771         9,427         59,51           Total shipments (1000 tonnes) (d)         86,779         72,916         86,681         82,099         88,873         327,408         330,570           Iron Ore Company of Canada         58.7 %         2019         2020	Yandicoogina Fines (HIY)		15,260	12,913	15,578	14,203	15,055	57,052	57,749
Rio Tinto interest   Rio Tinto Rio Tint	SP10 Lump (c)		2,072	1,006	1,014	822	1,037	5,391	3,879
Rio Tinto interest   Q4	SP10 Fines (c)		2,081	1,089	1,603	1,488	1,771	9,427	5,951
Iron Ore Company of Canada         58.7 %           Newfoundland & Labrador and Quebec in Canada         58.7 %           Saleable iron ore production:         1,951         1,572         2,593         1,768         2,208         7,883         8,141           Pellets ('000 tonnes)         2,415         2,788         2,112         2,217         2,457         10,061         9,574           IOC Total production ('000 tonnes)         4,366         4,360         4,704         3,985         4,666         17,943         17,715           Shipments:         Concentrates ('000 tonnes)         2,083         1,713         2,402         2,307         1,970         7,628         8,392           Pellets ('000 tonnes)         2,406         3,013         2,248         2,347         2,620         9,607         10,229           IOC Total Shipments ('000 tonnes) (d)         4,490         4,726         4,650         4,654         4,591         17,235         18,621           Global Iron Ore Totals         87,945         82,187         87,936         90,370         90,627         344,606         351,121           Iron Ore Shipments ('000 tonnes)         91,269         77,642         91,332         86,753         93,464         344,642         349,190	Total shipments ('000 tonnes) (d)		86,779	72,916	86,681	82,099	88,873	327,408	330,570
Iron Ore Company of Canada         58.7 %           Newfoundland & Labrador and Quebec in Canada         Saleable iron ore production:           Concentrates ('000 tonnes)         1,951         1,572         2,593         1,768         2,208         7,883         8,141           Pellets ('000 tonnes)         2,415         2,788         2,112         2,217         2,457         10,061         9,574           IOC Total production ('000 tonnes)         4,366         4,360         4,704         3,985         4,666         17,943         17,715           Shipments:         Concentrates ('000 tonnes)         2,083         1,713         2,402         2,307         1,970         7,628         8,392           Pellets ('000 tonnes)         2,406         3,013         2,248         2,347         2,620         9,607         10,229           IOC Total Shipments ('000 tonnes) (d)         4,490         4,726         4,650         4,654         4,591         17,235         18,621           Global Iron Ore Totals           Iron Ore Production ('000 tonnes)         87,945         82,187         87,936         90,370         90,627         344,606         351,121           Iron Ore Shipments ('000 tonnes)         91,269         77,642         91,332									Full Year
Newfoundland & Labrador and Quebec in Canada         Saleable iron ore production:       1,951       1,572       2,593       1,768       2,208       7,883       8,141         Pellets ('000 tonnes)       2,415       2,788       2,112       2,217       2,457       10,061       9,574         IOC Total production ('000 tonnes)       4,366       4,360       4,704       3,985       4,666       17,943       17,715         Shipments:       2,083       1,713       2,402       2,307       1,970       7,628       8,392         Pellets ('000 tonnes)       2,406       3,013       2,248       2,347       2,620       9,607       10,229         IOC Total Shipments ('000 tonnes) (d)       4,490       4,726       4,650       4,654       4,591       17,235       18,621         Global Iron Ore Totals       87,945       82,187       87,936       90,370       90,627       344,606       351,121         Iron Ore Shipments ('000 tonnes)       91,269       77,642       91,332       86,753       93,464       344,642       349,190		interest	2019	2020	2020	2020	2020	2019	2020
Saleable iron ore production:         Concentrates ('000 tonnes)       1,951       1,572       2,593       1,768       2,208       7,883       8,141         Pellets ('000 tonnes)       2,415       2,788       2,112       2,217       2,457       10,061       9,574         IOC Total production ('000 tonnes)       4,366       4,360       4,704       3,985       4,666       17,943       17,715         Shipments:       2,083       1,713       2,402       2,307       1,970       7,628       8,392         Pellets ('000 tonnes)       2,406       3,013       2,248       2,347       2,620       9,607       10,229         IOC Total Shipments ('000 tonnes) (d)       4,490       4,726       4,650       4,654       4,591       17,235       18,621         Global Iron Ore Totals       87,945       82,187       87,936       90,370       90,627       344,606       351,121         Iron Ore Shipments ('000 tonnes)       91,269       77,642       91,332       86,753       93,464       344,642       349,190	Iron Ore Company of Canada	58.7 %							
Concentrates ('000 tonnes)         1,951         1,572         2,593         1,768         2,208         7,883         8,141           Pellets ('000 tonnes)         2,415         2,788         2,112         2,217         2,457         10,061         9,574           IOC Total production ('000 tonnes)         4,366         4,360         4,704         3,985         4,666         17,943         17,715           Shipments:         2,083         1,713         2,402         2,307         1,970         7,628         8,392           Pellets ('000 tonnes)         2,406         3,013         2,248         2,347         2,620         9,607         10,229           IOC Total Shipments ('000 tonnes) (d)         4,490         4,726         4,650         4,654         4,591         17,235         18,621           Global Iron Ore Totals           Iron Ore Production ('000 tonnes)         87,945         82,187         87,936         90,370         90,627         344,606         351,121           Iron Ore Shipments ('000 tonnes)         91,269         77,642         91,332         86,753         93,464         349,190	Newfoundland & Labrador and Quebec in Can	ada							
Pellets ('000 tonnes)         2,415         2,788         2,112         2,217         2,457         10,061         9,574           IOC Total production ('000 tonnes)         4,366         4,360         4,704         3,985         4,666         17,943         17,715           Shipments:         2,083         1,713         2,402         2,307         1,970         7,628         8,392           Pellets ('000 tonnes)         2,406         3,013         2,248         2,347         2,620         9,607         10,229           IOC Total Shipments ('000 tonnes) (d)         4,490         4,726         4,650         4,654         4,591         17,235         18,621           Global Iron Ore Totals         87,945         82,187         87,936         90,370         90,627         344,606         351,121           Iron Ore Shipments ('000 tonnes)         91,269         77,642         91,332         86,753         93,464         349,190	Saleable iron ore production:								
Pellets ('000 tonnes)         2,415         2,788         2,112         2,217         2,457         10,061         9,574           IOC Total production ('000 tonnes)         4,366         4,360         4,704         3,985         4,666         17,943         17,715           Shipments:         2,083         1,713         2,402         2,307         1,970         7,628         8,392           Pellets ('000 tonnes)         2,406         3,013         2,248         2,347         2,620         9,607         10,229           IOC Total Shipments ('000 tonnes) (d)         4,490         4,726         4,650         4,654         4,591         17,235         18,621           Global Iron Ore Totals         87,945         82,187         87,936         90,370         90,627         344,606         351,121           Iron Ore Shipments ('000 tonnes)         91,269         77,642         91,332         86,753         93,464         349,190	Concentrates ('000 tonnes)		1,951	1,572	2,593	1,768	2,208	7,883	8,141
IOC Total production ('000 tonnes)         4,366         4,360         4,704         3,985         4,666         17,943         17,715           Shipments:         Concentrates ('000 tonnes)         2,083         1,713         2,402         2,307         1,970         7,628         8,392           Pellets ('000 tonnes)         2,406         3,013         2,248         2,347         2,620         9,607         10,229           IOC Total Shipments ('000 tonnes) (d)         4,490         4,726         4,650         4,654         4,591         17,235         18,621           Global Iron Ore Totals         Iron Ore Production ('000 tonnes)         87,945         82,187         87,936         90,370         90,627         344,606         351,121           Iron Ore Shipments ('000 tonnes)         91,269         77,642         91,332         86,753         93,464         344,642         349,190	·								9,574
Shipments:         2,083         1,713         2,402         2,307         1,970         7,628         8,392           Pellets ('000 tonnes)         2,406         3,013         2,248         2,347         2,620         9,607         10,229           IOC Total Shipments ('000 tonnes) (d)         4,490         4,726         4,650         4,654         4,591         17,235         18,621           Global Iron Ore Totals         87,945         82,187         87,936         90,370         90,627         344,606         351,121           Iron Ore Shipments ('000 tonnes)         91,269         77,642         91,332         86,753         93,464         344,642         349,190									17,715
Pellets ('000 tonnes)         2,406         3,013         2,248         2,347         2,620         9,607         10,229           IOC Total Shipments ('000 tonnes) (d)         4,490         4,726         4,650         4,654         4,591         17,235         18,621           Global Iron Ore Totals         87,945         82,187         87,936         90,370         90,627         344,606         351,121           Iron Ore Shipments ('000 tonnes)         91,269         77,642         91,332         86,753         93,464         344,642         349,190	·								
Pellets ('000 tonnes)         2,406         3,013         2,248         2,347         2,620         9,607         10,229           IOC Total Shipments ('000 tonnes) (d)         4,490         4,726         4,650         4,654         4,591         17,235         18,621           Global Iron Ore Totals         87,945         82,187         87,936         90,370         90,627         344,606         351,121           Iron Ore Shipments ('000 tonnes)         91,269         77,642         91,332         86,753         93,464         344,642         349,190	Concentrates ('000 tonnes)		2,083	1,713	2,402	2,307	1,970	7,628	8,392
IOC Total Shipments ('000 tonnes) (d)         4,490         4,726         4,650         4,654         4,591         17,235         18,621           Global Iron Ore Totals         Iron Ore Production ('000 tonnes)         87,945         82,187         87,936         90,370         90,627         344,606         351,121           Iron Ore Shipments ('000 tonnes)         91,269         77,642         91,332         86,753         93,464         344,642         349,190	·								10,229
Global Iron Ore Totals         87,945         82,187         87,936         90,370         90,627         344,606         351,121           Iron Ore Shipments ('000 tonnes)         91,269         77,642         91,332         86,753         93,464         344,642         349,190									18,621
Iron Ore Production ('000 tonnes)       87,945       82,187       87,936       90,370       90,627       344,606       351,121         Iron Ore Shipments ('000 tonnes)       91,269       77,642       91,332       86,753       93,464       344,642       349,190									
Iron Ore Shipments ('000 tonnes) 91,269 77,642 91,332 86,753 <b>93,464</b> 344,642 <b>349,190</b>			87,945	82,187	87,936	90,370	90,627	344,606	351,121
			91,269	77,642		86,753	93,464	344,642	349,190
			89,690						348,098

(a) Includes 100% of production from Paraburdoo, Mt Tom Price, Western Turner Syncline, Marandoo, Yandicoogina, Brockman, Nammuldi, Silvergrass and the Eastern Range mines. Whilst Rio Tinto owns 54% of the Eastern Range mine, under the terms of the joint venture agreement, Hamersley Iron manages the operation and is obliged to purchase all mine production from the joint venture and therefore all of the production is included in Rio Tinto's share of production.

(b) Rio Tinto's ownership interest in Channar mine increased from 60% to 100%, following conclusion of its joint venture with Sinosteel Corporation upon reaching planned 290 million tonnes production on 22 October 2020. Historic data is unchanged.

Rio Tinto percentage interest shown above is at 31 December 2020. The data represent full production and sales on a 100% basis unless otherwise stated.

<sup>(</sup>c) SP10 include other lower grade products.

<sup>(</sup>d) Shipments includes material shipped to our portside trading facility in China which may not be sold onwards in the same period.

<sup>(</sup>e) Include Pilbara and IOC sales adjusted for portside trading movements and third party volumes sold.

	Rio Tinto interest	Q4 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Full Year 2019	Full Year 2020
0417								
SALT								
Dampier Salt	68.4 %							
Western Australia								
Salt production ('000 tonnes)		2,121	1,527	2,085	1,871	1,628	7,931	7,111
TITANIUM DIOXIDE SLAG								
Rio Tinto Iron & Titanium	100.0 %							
Canada and South Africa								
(Rio Tinto share) (a)								
Titanium dioxide slag ('000 tonnes)		286	293	262	293	272	1206	1120

(a) Quantities comprise 100% of Rio Tinto Fer et Titane and Rio Tinto's 74% interest in Richards Bay Minerals' production. Ilmenite mined in Madagascar is being

URANIUM Energy Resources of Australia Ltd								
Ranger mine (a)	86.3 %							
Northern Territory, Australia								
U <sub>3</sub> O <sub>8</sub> Production ('000 lbs)		939	928	831	851	860	3,860	3,471

(a) ERA production data are drummed  $U_3O_8$ . On 25 February 2020, Rio Tinto's ownership interest in ERA increased from 68.39% to 86.33%, following completion of its offer to ensure ERA has the funds it needs to meet its current rehabilitation obligations. Production is reported including this change from 1 March 2020.

Rio Tinto percentage interest shown above is at 30 June 2020. The data represent full production and sales on a 100% basis unless otherwise stated.