Rio Tinto in Australia
To deliver superior returns to shareholders over time, we take a long-term and responsible approach to our activities. This means concentrating on developing Tier 1 orebodies into long-life, low-cost, expandable operations, capable of providing competitive returns throughout business cycles. Sustainable development is integrated into everything we do. Our operations give us the opportunity to bring long-lasting positive change to the communities, regions and countries in which we work, and our metals and minerals are transformed into end products that contribute to higher living standards.

Our responsible approach to mineral development ensures we gain and maintain our licence to operate. It means we provide confidence to our stakeholders, and improve our access to the mineral resources, people and capital we need.

Our five product groups – Aluminium, Copper, Diamonds & Minerals, Energy and Iron Ore – are supported by our Exploration and Technology & Innovation groups.

Rio Tinto in Australia
Our economic contribution
Iron Ore
Diamonds & Minerals
Energy
Aluminium
Technology & Innovation
Our people
Our environment
Our communities
Rio Tinto has enriched Australian life for more than 100 years – since the Consolidated Zinc Corporation was founded in 1905 in Broken Hill, New South Wales. We first listed on the Australian Securities Exchange in 1962, and today more than 200,000 people count themselves as shareholders. Australia is home to around half of our global assets. We produce iron ore, coal, bauxite, alumina, aluminium, uranium, diamonds and salt from more than 30 operating sites and processing plants around the country. We also have offices in Melbourne, Perth and Brisbane.

We are committed to building sustainable and economically resilient communities and devote significant resources towards achieving this every year. Our Australian operations have pioneered technologies that minimise our impact on the environment and improve safety and working conditions. We are proud of this rich heritage and the significant contribution we make to the lives of so many Australians. We hope to build on this for many years to come.

Australia has long been a key market for our company and we are proud of the significant contribution we make to its economic prosperity. Despite ongoing volatility in the global economy, we continue to invest in long-term projects, with billions of dollars of projects either under construction or approved. These projects provide a much-needed boost to regional employment and generate demand for services and materials from local and national suppliers.

We directly employ more than 23,000 people across Australia, and many more contractors. We are proud to be the largest private sector employer of Indigenous Australians, who now make up seven per cent of our workforce.

Naturally we work for the benefit of our shareholders, many of whom invest in us via their superannuation funds, but we also work hard to ensure the benefits of mining reach people in every corner of Australia.

In 2012 alone, we paid close to A$8.7 billion in taxes to federal and state governments.

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Our Pilbara trains take the equivalent of eight return trips to the moon each year.

Iron Ore

Rio Tinto is the second largest producer of iron ore in the world, and most of our production is in Australia. Our operations in Western Australia’s Pilbara region are fast becoming one of the largest integrated mining projects in Australian history.

PILBARA OPERATIONS
Our 15 iron ore mines, three port terminals, 1,500 kilometre rail network and supporting infrastructure in the Pilbara are integrated in a way that allows us to respond rapidly to changes in demand.

We produce a range of lump and fines products from these operations, which are used by customers as a key ingredient in the production of steel.

Our purpose built Operations Centre in Perth is the primary control centre for our Pilbara network and provides complete system visibility and integration.

We are in the midst of an exciting phase of expansion and growth in the Pilbara. We recently celebrated the safe completion of the first phase of our expansion programme focusing on port and rail infrastructure, which will help to grow the overall capacity of our Pilbara iron ore operations to 290 million tonnes per annum (Mt/a).

The safe and efficient ramp-up schedule is on track to reach a full run-rate by the end of the first half of 2014.

Phase two expansion of our port, rail and power infrastructure to 360 million tonnes per annum is already under way and scheduled for completion in the first half of 2015, and mine production capacity will also rapidly increase towards 360 million tonnes per annum.

Our Mine of the Future™ vision, introducing new technologies to deliver safety and operational efficiency, is becoming a reality with autonomous trucks already delivering additional tonnes at three mine sites and autonomous drills and trains being introduced.

RIO TINTO MARINE
Our ocean freight business, Rio Tinto Marine, services our global mining operations and provides a central source of maritime expertise across marine transportation, freight markets and regulatory requirements.

Combining all shipping activities under the one business unit allows us to drive operational and commercial efficiency and achieve the highest level of safety in both third party ships and our own fleet.

Commodities shipped across the Group include iron ore, coal, bauxite, industrial minerals, aluminium, concentrates and metal.

We utilise a range of ship sizes and types ranging from very large ore carriers, through bulk carriers and container ships, to small coasters.

In 2012 we shipped 177 million tonnes of dry bulk cargo, including nearly 85,000 container movements and took delivery of four new ships.

DRIVING INNOVATION
We have become the world’s largest owner and operator of autonomous haulage system (AHS) trucks.

At our Yandicoogina mine we have AHS trucks in operation moving both ore and waste in the Junction South East pit and during 2013 we introduced additional autonomous trucks to our Nammuldi operation, some now trialling the latest version of the AHS system.

Hope Downs 4 is also gearing up to commence autonomous operations in 2014.

Since we first introduced autonomous trucks at our West Angelas mine in 2008, 2.4 million kilometres has been driven and more than 130 million tonnes of material moved by our autonomous truck fleet.

Implementing autonomous haulage on this scale means more material can be moved more efficiently and safely, creating a direct increase in productivity.

These technologies are a key part of our Mine of the Future™ programme, which is a holistic approach taken across Rio Tinto to find new ways to mine and extract minerals more efficiently while reducing environmental impacts and most importantly, further improving safety.
Rio Tinto is one of the world’s leading producers of diamonds. We produce all sizes, qualities and colours and we are the largest producer of natural coloured diamonds.

ARGYLE DIAMOND MINE
Rio Tinto owns and operates the Argyle Diamond Mine in the remote east Kimberley region of Western Australia. Since operation began in 1983, we have produced some 800 million carats of rough diamonds. Argyle diamond colours include whites, champagnes, cognacs, greys, blues and greens. The mine also produces virtually the entire world’s supply of rare pink diamonds – our signature stone. Most of what is produced at our Argyle Diamond Mine is sold as rough diamonds through our sales and marketing office in Antwerp, except for the rare pink diamonds, which are cut and polished in Western Australia and then distributed to an international customer base.

Australia’s biggest pink rough diamond, the Argyle Pink Jubilee, was discovered in 2011. Weighing 12.76 carats, it was formed some 1.5 billion years ago.

DAMPIER SALT
Rio Tinto’s Dampier Salt is the world’s foremost producer of seaborne solar salt. Our three mining operations in Western Australia at Port Hedland, Dampier and Lake MacLeod have a combined annual production capacity of 10.3 million tonnes and a combined footprint of about 50,000 hectares of salt ponds. Dampier Salt also has administrative offices in Perth and marketing offices in Singapore.

The most abundant source of salt is the ocean, but it can also be produced from underground brines or from solid salt geological formations. At our Dampier and Port Hedland operations, salt is produced by evaporation of seawater using energy from the sun and assisted by the wind. At Lake MacLeod we produce salt from underground brines that are ten times more concentrated than seawater. At Lake MacLeod we also mine gypsum, which is commonly used in plaster board.

800 million carats of rough diamonds mined since operation began in 1983
1979 year the Argyle diamond mine was discovered

Australia’s biggest rough pink diamond was discovered at Argyle. The diamond is 12.76 carats and was formed around 1.5 billion years ago.
## Energy Resources of Australia

Energy Resources of Australia Ltd (ERA) is one of the largest continually operating uranium producers in the world. Uranium has been mined at ERA’s Ranger mine in the Northern Territory for three decades and Energy Resources of Australia has an excellent track record of reliably supplying customers. Ranger mine is one of only three mines in the world to have produced in excess of 110,000 tonnes of uranium oxide. This product is used to generate electricity using nuclear energy, which produces minimal carbon emissions.

ERA sells its product to power utilities in Asia, Europe and North America under strict international and Australian Government safeguards and non-proliferation conditions to ensure it is only used for peaceful purposes. Ranger began commercial production of drummed uranium oxide in 1981. Following the completion of mining in the operating Pit 3 at Ranger in 2012, ERA has begun the transition from open cut mining to underground exploration of the Ranger 3 Deeps mineral resource.

## Coal

In Australia our Energy product group has world-class assets which produce coal and uranium for our customers worldwide.

### Rio Tinto Coal Australia

Rio Tinto Coal Australia is a leading developer and manager of world-class open cut and underground coal operations.

In Queensland, Rio Tinto Coal Australia operates the Hail Creek, Kestrel and Clermont mines. In New South Wales, Rio Tinto Coal Australia manages Coal & Allied’s operations at Mount Thorley Warkworth, Hunter Valley Operations and Bengalla.

Each year we produce more than 50 million tonnes of metallurgical and thermal coal for export. Our sites produce a range of coal products for the export and domestic market, including hard coking coal, semi-soft coal and thermal coal.

We produce prime low volatile hard coking coal which produces coke with high hot and cold strength. This coal is used as a key component of coke blends by many major international steel mills and coke works.

Our semi-soft coking coal is typically blended with hard coking coal prior to being charged into coke oven batteries to produce coke. Combined with a hard coking coal, the product provides an economical low phosphorus, quality coking coal with adequate strength for coke production.

With low total sulphur content, our thermal coal is used in power generation, and is favoured by many Asian power utilities. We have a programme in place across our Australian coal operations that identifies opportunities to improve our energy efficiency. We also support and share initiatives to reduce emissions from the use of our product by our customers.

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### COMMUNITY DEVELOPMENT FUNDS

Since their inception, Rio Tinto Coal Australia’s eight community development funds have contributed more than A$25 million to the communities in which we operate.

The funds were established to allow us to contribute to projects which will help build community capacity in areas such as education, training, business development and the environment.

Of the eight funds, four are Aboriginal Community Development Funds which support projects that provide opportunities for the Wiri Yuwiburra, Wangan and Jagalingou and Western Kangalu People in Queensland, and the Aboriginal community in New South Wales. In Queensland and New South Wales these funds are established under land-use agreements with each Traditional Owner group.

Wherever possible, we seek community investment opportunities where we are not the only funding source but are one of a number of community and/or government bodies that contribute to programmes that benefit the community. In this way, the long-term sustainability of a programme is increased and community dependence on mining activities decreases over time.

Each fund is guided by a committee, generally comprising Rio Tinto Coal Australia representatives and community representatives, which considers applications for funding.
Aluminium

Aluminium is one of the world’s most versatile metals, found in everything from foil packaging, cans and bottle tops to windows, roofing and electrical wiring.

Rio Tinto Alcan has invested in technology that delivers a 26 per cent reduction in the greenhouse gas intensity of its Yarwun alumina refinery in Queensland. The refinery’s gas-fired cogeneration power plant delivers benefits to both our business and the environment by reducing the energy required to refine alumina.

Recognising this, the cogeneration facility was announced as one of Queensland’s most outstanding industrial eco-efficiency improvements at the 2011 annual Premier’s Climate Smart Sustainability Awards.

Linked to a 160 megawatt electrical generator, the cogeneration facility converts natural gas energy via a large turbine to produce steam and low emission electricity to power the refinery. Surplus electricity is provided to the Queensland electricity grid. Right now, more than 87,000 average Queensland homes are being supplied with low emission electricity produced by our gas-fired facility.

Aluminium

Rio Tinto Alcan is one of the world’s largest producers of bauxite, alumina and aluminium. We have been operating in Australia since the mid-1950s with the development of bauxite deposits at Weipa, on Queensland’s western Cape York Peninsula, as well as the southern hemisphere’s first alumina smelter, at Bell Bay near Launceston in northern Tasmania.

In Queensland, we have completed the Yarwun alumina refinery expansion, which more than doubles annual production, taking output from 1.4 million tonnes to 3.4 million tonnes. Also in Queensland, we are working on the South of Embly Project, which would see bauxite mining extended to a new area of our mining lease near Weipa.

RIO TINTO ALCAN OPERATIONS

Our Australian operations include:

Weipa
An open-pit bauxite mine producing about 23 million tonnes each year and employing about 1,000 full-time workers. The mining leases are on Aboriginal land and neighbour the communities of Aurukun, Mapoon, Napranum and Weipa.

Yarwun
An alumina refinery and cogeneration plant producing power for the alumina refinery operations. Yarwun can produce about 3.4 million tonnes of alumina each year.

Queensland Alumina Ltd
An alumina refinery producing about 3.95 million tonnes of smelter-grade alumina each year.

Boye Smelters
An aluminium smelter producing around 180,000 tonnes of aluminium ingots and billets each year.

NRG Gladstone Power Station
A 1,680MW coal-fired power station producing safe, reliable electricity to support production.

Gove
An open-pit bauxite mine producing about eight million tonnes of bauxite a year with an alumina refinery as well as a port and ship loading facilities.

Tomago Aluminium
An aluminium smelter producing around 550,000 tonnes each year of extrusion billets, rolling slabs, and aluminium ingots.

Bell Bay
An aluminium smelter producing about 180,000 tonnes each year of aluminium ingots, block and t-bar.

PIONEERING ENERGY EFFICIENT TECHNOLOGIES

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Technology & Innovation

Our Technology & Innovation (T&I) group focuses on creating sustainable value and competitive advantage by embedding fundamental changes in the way Rio Tinto operates. T&I partners with the business to provide technical insights in productivity improvements, technical assurance, project delivery and innovation.

Our Mine of the Future™ programme is introducing next-generation technologies that reduce costs, increase efficiency, and improve health, safety and environmental performance. We have formed partnerships with leading external organisations – including universities and equipment producers – who offer complementary skills to ours, and are helping drive our Mine of the Future™ programme. Through these alliances, we work with some of the world’s leading experts in areas like automation and mineral processing. The scale and long-term nature of these partnerships sets us apart from our competitors.

A major success of the programme so far has been establishing the Operations Centre in Perth, which oversees operations of our iron ore mines some 1,500km away in the Pilbara. Among other Mine of the Future™ projects, we are also developing block cave mining and rapid tunnel technologies that allow us to extract ore from large orebodies without having to dig an open pit at the surface.

We partner with universities around the world to undertake cutting-edge research in mine automation, drilling techniques and better ways of finding and extracting ore.

1,500
distance in kilometres between our Perth Operations Centre and the Pilbara sites

100
million tonnes of material hauled by our autonomous trucks during the trial

0
safety incidents reported during trials of our autonomous trucks
Our people

We employ more than 23,000 people across Australia, from rail drivers and project engineers to hydrologists and engineering specialists.

Ultimately, the safety and wellbeing of our employees is our top priority. Mining can be dangerous and we are always working to reduce the risks. In addition to training and best practice, we use technology to protect our workers. For example, our autonomous trucks reduce physical risks and stress.

We are also committed to creating a diverse business where everyone is given equal opportunities to develop their careers and progress in their chosen fields. As a global business, you will find a vast spectrum of backgrounds and beliefs at Rio Tinto. We believe in openness and transparency where our people are rewarded with a collaborative environment in which they can go further.

As the largest private-sector employer of Indigenous Australians, we are proud of our ongoing commitment to developing and building capacity that give Indigenous people valuable skills for the workplace. Our aim is to ensure the benefits of our organisation are shared, and we work closely with local communities to make sure our business priorities mirror their needs and aspirations.

Our cutting-edge business opens doors for our people by providing a work environment that is autonomous, inspirational and challenging, where you will not only work alongside some of the best in the industry, but be a part of our dynamic organisation.

EMPLOYEE INSPIRES NEXT GENERATION
Ken Lockyer, a Work Readiness advisera for our Iron Ore Heritage and Communities team, has an inspiring story to share.
Like many of his classmates in Roebourne, Ken left school at an early age and despite having limited formal education, Ken’s drive to succeed has allowed him to overcome many challenges.

Today Ken is a mining veteran of 23 years and he is proud to be part of our Work Ready programme, which creates opportunities for Aboriginal people, many with no previous work experience.
Throughout his career, from hospitality to isolation and Indigenous training, Ken has taken every opportunity to gain new skills and experiences. In reflecting on his career, Ken says the highlight has been seeing Rio Tinto’s Work Ready programme grow: “I never get tired of seeing participants graduate.”
Through his current role Ken is able to inspire others to take opportunities, just as he has, and to make a real go out of every opportunity.

INDIGENOUS EMPLOYMENT REACHES RECORD LEVELS AT WEIPA
Rio Tinto Alcan Weipa supports Native Title rights and undertakes its mining operations in consultation with the Traditional Owners of the region, ensuring that obligations established under Indigenous agreements can be met.

Rio Tinto Alcan Weipa mining leases are on Aboriginal land and neighbour the communities of Aurukun, Mapoon, Napranum and Weipa.
A shared commitment between Traditional Owners and Rio Tinto Alcan has seen the number of Indigenous employees at our Weipa operations rise to record levels. More than 250 Indigenous employees work at our Weipa operations, which represents approximately 25 per cent of the entire workforce.

Through comprehensive development plans, we are committed to continuing an increase in representation of local Aboriginal and Indigenous employees across the Rio Tinto Alcan Weipa operations.
Our environment

Rio Tinto respects the environment and we strive to minimise our impact on it. For more than 16 years we have worked hard to reduce our energy use and greenhouse emissions.

Respect for the environment is central to our approach to sustainable development. Wherever possible we prevent – or otherwise minimise, mitigate and remediate – harmful effects of our activities on the environment.

We have developed a number of practical programmes for environmental management, which include input from our local communities, as well as from experts in these fields.

In line with our air quality strategy and our air quality control standard, we constantly review our emissions, look for ways to improve our performance and apply controls to minimise related health or environmental impacts.

Protecting biodiversity is a key priority wherever we operate. We do everything we can to support the variety of life on earth, including animals, plants and micro-organisms, their genes and their ecosystems.

In Australia, where a lot of the country has suffered drought for the past decade, we keenly focus on water management. Our water strategy tackles water-related business risks and encourages long-term thinking about water's social, environmental and economic impacts.

MAKING HAY IN THE PILBARA

An innovative use for surplus water, from our below-water table operations in the Pilbara, has delivered a bumper first hay crop. Hamersley Agricultural Project is the first of its kind in the Pilbara.

Covering 835 hectares of land, the project uses surplus water from mining below the water table at our Marandoo iron ore mine to grow pasture for our cattle stations. Remaining surplus water is also used to support mine operations, to supply the Tom Price township and is reinjected into the Southern Fortescue Borefield.

Relaying on 35 kilometres of mild steel pipe, 22 pumps and large-scale pumping infrastructure, the project uses very large centre pivots, each able to irrigate 40 to 50 hectares of pasture land. First quarter operations resulted in approximately 3,000 bales or more than 2,000 tonnes of hay. The first commercial load of hay grown through the project was sold mid-year to a station near Newman in Western Australia’s north-west.

REEF FOR FUTURE GENERATIONS

A landmark three-year, A$1 million research project – a partnership between Rio Tinto Alcan, CSIRO and the Great Barrier Reef Foundation – is the first of its kind to monitor ocean chemistry along the length of Australia’s Great Barrier Reef Marine Park.

The Future Reef MAP project involves the deployment of an ocean sensor system on an existing Rio Tinto vessel that travels between Weipa and Gladstone. The “ship of opportunity” is regularly collecting samples and recording data that will help build a comprehensive picture of how ocean chemistry is changing across Reef habitats.

Delivering data on a scale and frequency not previously possible, this innovative project will empower Reef managers with information on where, when and how ocean acidification is having the highest impact. This knowledge will assist Reef managers to assess the level of the ocean acidification threat and make appropriate decisions, ultimately helping ensure the sustainability of the Reef for future generations.

Rio Tinto is also proud to support the Great Barrier Reef Foundation’s Seaquence research project which will uncover core genetic data of Great Barrier Reef corals with the aim of using this information to help protect them from climate change.
Our communities

Good community relations are as necessary for our business success as the effective management of our operations. This belief is at the heart of our overall approach to communities work and is why we aim to build good quality relationships with the people who live in the areas where we operate.

With such a large presence in Australia, our work with local and Aboriginal communities in particular, plays a central role in our business. In 2012 our total direct community contributions, including direct payments via trusts and impact benefit agreements with host communities, was more than A$170 million. We invested A$33 million in initiatives that help to build sustainable and resilient communities across Australia. In addition, we provided additional in-kind support of A$12 million. These include projects to improve education, health and wellbeing, and to support cultural heritage activities.

We support ongoing regional development in the communities in which we work, employing locals, engaging local suppliers and creating commercial infrastructure that lives on after we’ve finished mining. In particular, we work with local communities in planning our operations to ensure we protect their cultural heritage, and that the social and economic benefits of our mining activities flow through to future generations.

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330
million Australian dollars invested in community initiatives in the last five years

30,000
number of children per year in Western Australia provided with books via the Better Beginnings Family Literacy programme

BOOKS FOR A BETTER FUTURE
Rio Tinto helps deliver books and reading activities to almost 96 per cent of new parents in Western Australia.

We partner with local governments and the State Library of Western Australia to fund the Better Beginnings Family Literacy programme.

Since 2005, more than 150,000 families in Western Australia have been reached by the programme. In 2012, nearly 30,000 reading packs were delivered across the state. This brings the total number of packs delivered since the programme’s launch to more than 191,000.

Research by Edith Cowan University found the programme has had a positive impact on modifying behaviours and changing perceptions among children.

FOOTY MEANS BUSINESS IN RIO TINTO-AFL PARTNERSHIP
The Footy Means Business partnership between Rio Tinto and the AFL is an innovative leadership development programme that links young Indigenous men with employment and education opportunities.

The programme offers Indigenous men aged between 18 and 24 a chance to gain exposure to elite AFL training and corporate networking opportunities to strengthen their leadership and teamwork skills.

AFL regional development officers, in collaboration with our businesses, select around 50 participants each year based on their football ability, local community engagement and their potential to serve as role models.

The programme is committed to helping participants to enter the AFL Draft, full-time employment or accredited training or education.

The partnership strongly supports Rio Tinto’s commitment to Indigenous employment.
Careers at Rio Tinto

We think of our people as the future of our industry. From our global operations to our advancements in technology and innovation, we are committed to providing employees with a dynamic and diverse work environment.

To find out more and help us create the mining industry of the future, visit riotinto.com/careers or call 1300 MINING