



BHP

Strategy briefing

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Presentation of data

Unless specified otherwise: value represents BHP share of risked discounted cash flows at consensus prices; copper equivalent production based on 2018 financial year average realised prices (as published in BHP's Results for the year ended 30 June 2018 on 21 August 2018); data from subsidiaries are shown on a 100 per cent basis and data from equity accounted investments and other operations are presented reflecting BHP's share; medium term refers to our five year plan. Queensland Coal comprises the BHP Billiton Mitsubishi Alliance (BMA) asset, jointly operated with Mitsubishi, and the BHP Billiton Mitsui Coal (BMC) asset, operated by BHP. Numbers presented may not add up precisely to the totals provided due to rounding. References to disciplined supply refer to lower levels of investment across the industry. All footnote content contained on slide 34.

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Key messages

Our strategy identifies how to position the portfolio to maximise long-term value and deliver high returns for shareholders

Our strategy

- To have the best capabilities, best commodities and best assets, to create long-term value and high returns
- Transformation, capital discipline and social value enable the successful execution of our strategy

Scenario analysis

- Our investment decisions are measured in decades, so long-term strategic foresight is required
- Divergent scenario analysis reveals a range of strategic themes for us to consider
- Generates signposts to monitor, to facilitate timely decisions and risk management

Portfolio

- Assets and options tested against strategic themes to help navigate future uncertainty
- Investment in capabilities required to outperform in the future
- Build a suite of options with different risk, return and optionality attributes

Capital allocation

- Strong balance sheet and strict Capital Allocation Framework enable investments in the right commodities and assets, at the right time
- Investments must compete for capital against further returns to shareholders

Decision points

- Conventional oil, copper and nickel sulphides are attractive; energy coal is challenged; potash is a valuable long-term option

BHP's investment proposition: maximise cash flow; maintain capital discipline; increase value and returns

Our strategy to maximise value and returns

To have industry-leading capabilities applied to a portfolio of world-class assets in the most attractive commodities

Culture and capabilities that enable the execution of our business strategy

- ✓ Market intelligence
- ✓ Access, discovery and appraisal
- ✓ Value conversion in operations and marketing



Highly attractive commodities, matched to our capabilities

- ✓ Attractive supply / demand fundamentals
- ✓ Large market sizes
- ✓ Steep cost curves
- ✓ Upstream value chains
- ✓ Differentiated demand drivers

World class assets, uniquely suited to our capabilities

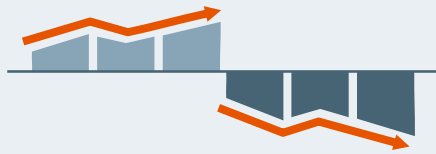
- ✓ Large
- ✓ Long-life
- ✓ Upstream
- ✓ High-margin
- ✓ Expandable

Driven by a commitment to transformation, capital discipline and social value

We are deliberate about the commodities we choose

Focused on holistic long-term value creation potential, informed by supply/demand balance – not just demand outlook

Favourable supply and demand gap



Favour commodities where inducement economics, rather than operating costs, set the price more often than not

Large market sizes



Enables future growth options in our assets

Differentiated demand drivers



Reduced portfolio cash flow volatility
Enables counter-cyclical investment
Reduced risk of disruption in end-use markets

Value creation and return potential



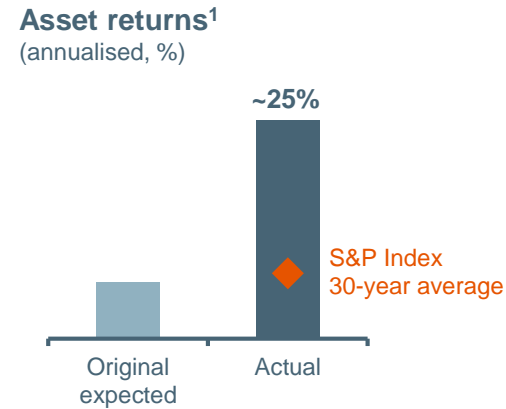
Steep cost curves
Value in upstream

We seek long-life assets with embedded optionality

Creating and exercising embedded options is critical to maximising value

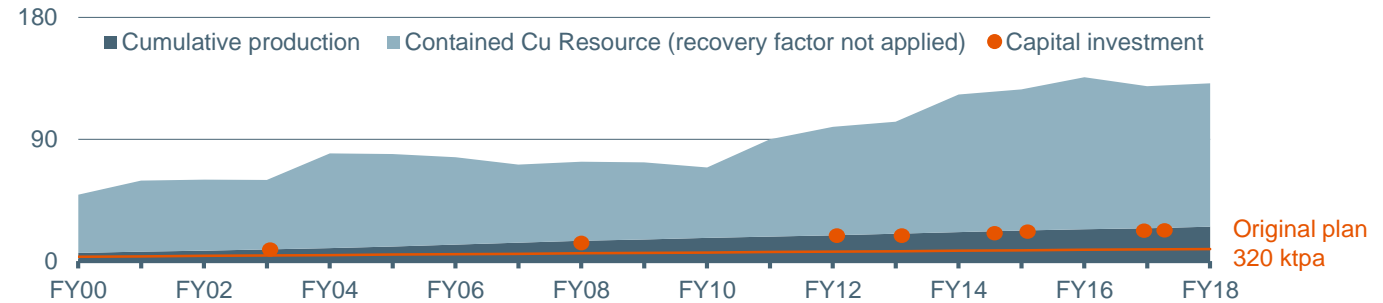
Escondida

Huge resource potential realised through new technologies and exercising embedded expansion options



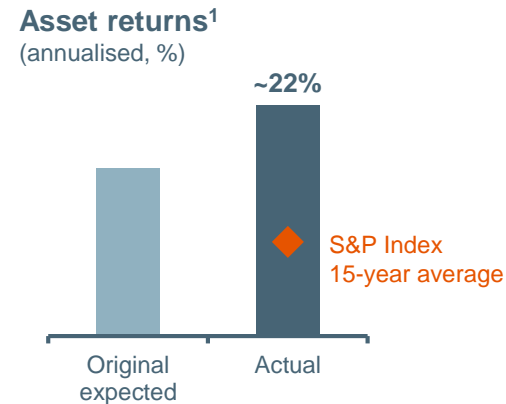
Production and resources

(Mt, 100% basis)



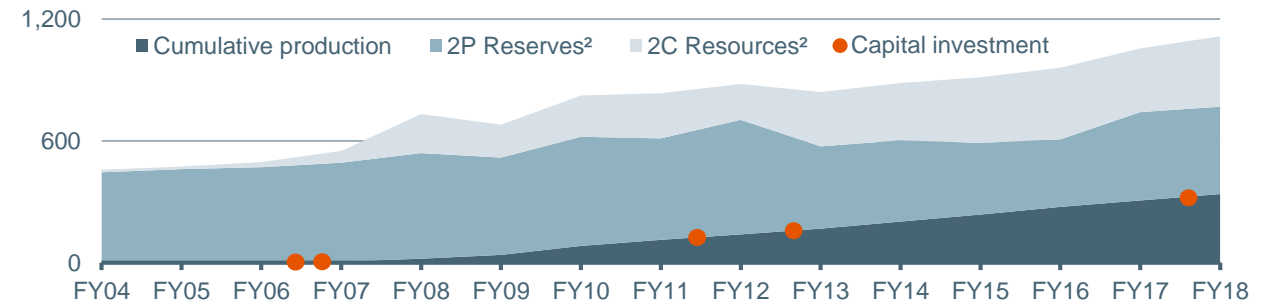
Gulf of Mexico

Additional contingent resources unlocked through advanced seismic imaging and robust technical work



Production, reserves and resources

(MMboe, net)



Fully developing a great resource takes decades... therefore we must think in decades

Source: Refer to detailed tables for Mineral Resources for Escondida (100% basis) in the Appendix, slide 33. Gulf of Mexico refers to Atlantis, Mad Dog and Shenzi.

Our capabilities enable the execution of our strategy

Emphasis on culture and core capabilities to drive competitive advantage



Market intelligence

- Early identification of new opportunities
- Deep market foresight
- Understanding of changing dynamics in jurisdictions around the world



Access, discovery and appraisal

- Gaining access to new resources by being partner of choice
- Outstanding geological knowledge and exploration capabilities
- Competitive advantage in appraising resources, once discovered



Value conversion in operations and marketing

- Executing projects on time and budget, at leading capital intensity
- Operating excellence and continuous improvement through our transformation agenda
- Value creation through customer focused marketing

Enabled by transformation, capital discipline and social value

Transformation

- Redesign the way we work
- Accelerate our work on culture and capabilities
- Strategic and innovative partnerships with stakeholders

Capital Allocation Framework

- Transparent framework promotes accountability and discipline
- Balances value creation, cash returns to shareholders and balance sheet strength
- Drives competition for capital

Social value

- Protecting our licence to operate by meeting commitments to our workforce, partners, communities and governments
- Building long-term societal value through deep and authentic relationships with local, regional and global stakeholders

The external environment is changing rapidly

Our world is in constant flux and levels of uncertainty are high

Unsustainable land and water use

23%

of land areas have seen a reduction in productivity due to degradation³

Dramatic change in the energy system

Up ~3x

IEA's forecast for solar power generation in 2035 since 2011⁴

Rise of emerging markets

70%

think China plays a more important role in the world today versus 10 years ago⁵

Bio-diversity loss

~1 million

species threatened with extinction ($\frac{1}{4}$ of all known varieties); extinction rate has accelerated one-hundred fold⁶

Swift technological progress

85%

reduction in average EV battery pack costs since 2010⁷

Heightened degree of policy uncertainty

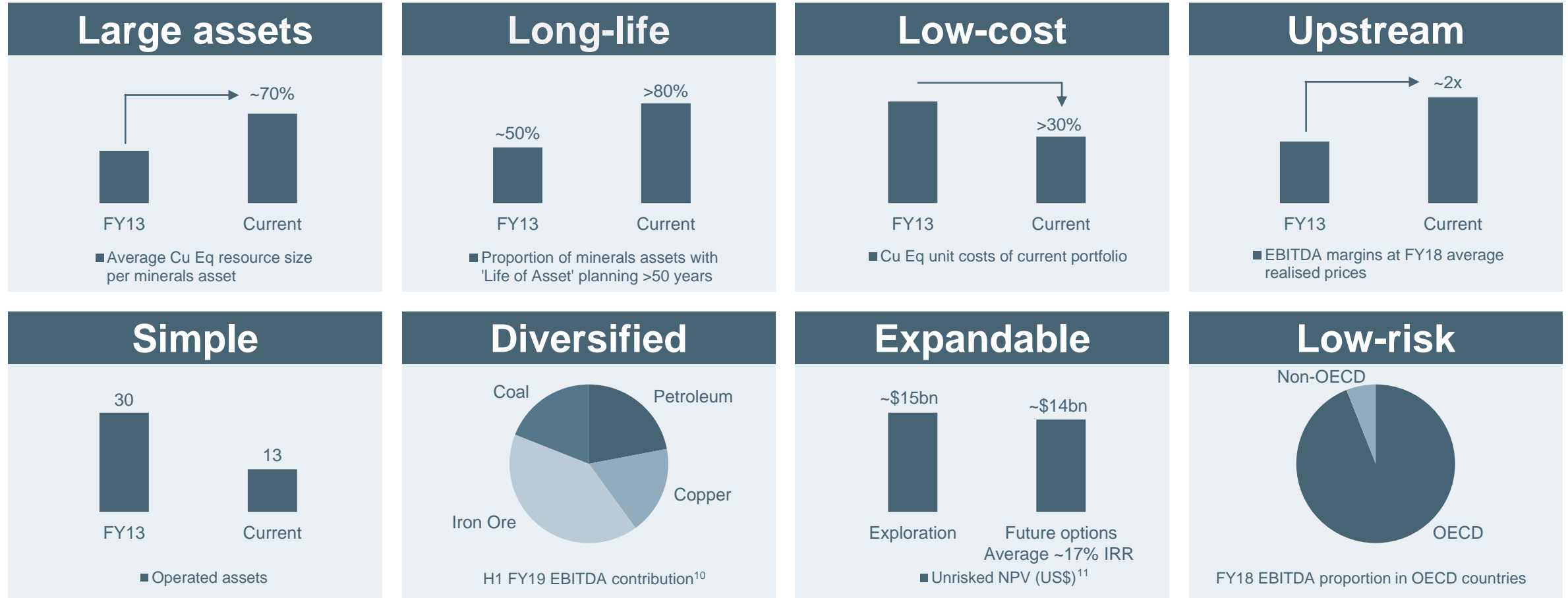
93%

increase in volatility of global policy uncertainty 2011-2019 vs 2002-2010⁸

Note: IEA: International Energy Agency.

We have responded: our portfolio is in great shape today

We have reshaped our portfolio through the demerger of South32 and US\$18 billion of divestments⁹



Note: Average Cu Eq resource size per minerals asset resource base (equity share basis) is converted to copper equivalent tonnes using FY18 prices; metal resources converted on a contained metal basis; refer to disclaimer on slide 29 and detailed tables for Mineral Resources in the Appendix, slides 30 to 32.

Navigating future uncertainty through scenario analysis

Our approach allows us to test the resilience of our portfolio and to optimise it for the long term

We consider durable and emerging trends

Inequality in and between nations

Resource availability

Non-linear climate impacts



Which could lead to extreme, but plausible divergent future scenarios

Deepening global divide in international relations, decentralised governance structures

Socio-political instability, permanent loss of trust, intensified by inequality and technological displacement of jobs

Climate change threats and resource scarcity drive profound disruption in energy and materials

A major climate change event leads to a global policy response that drives dramatic emission reduction focus



We derive and test strategic themes, for example:

-  Electrification of transport
-  Licence to operate
-  Decarbonisation of stationary power
-  Biosphere: water stewardship and food (in)security
-  Circular economy



Outcomes of hypothesis testing inform how we test and shape our portfolio

Commodity entries / exits

Asset acquisitions / disposals

Development of core strategic capabilities

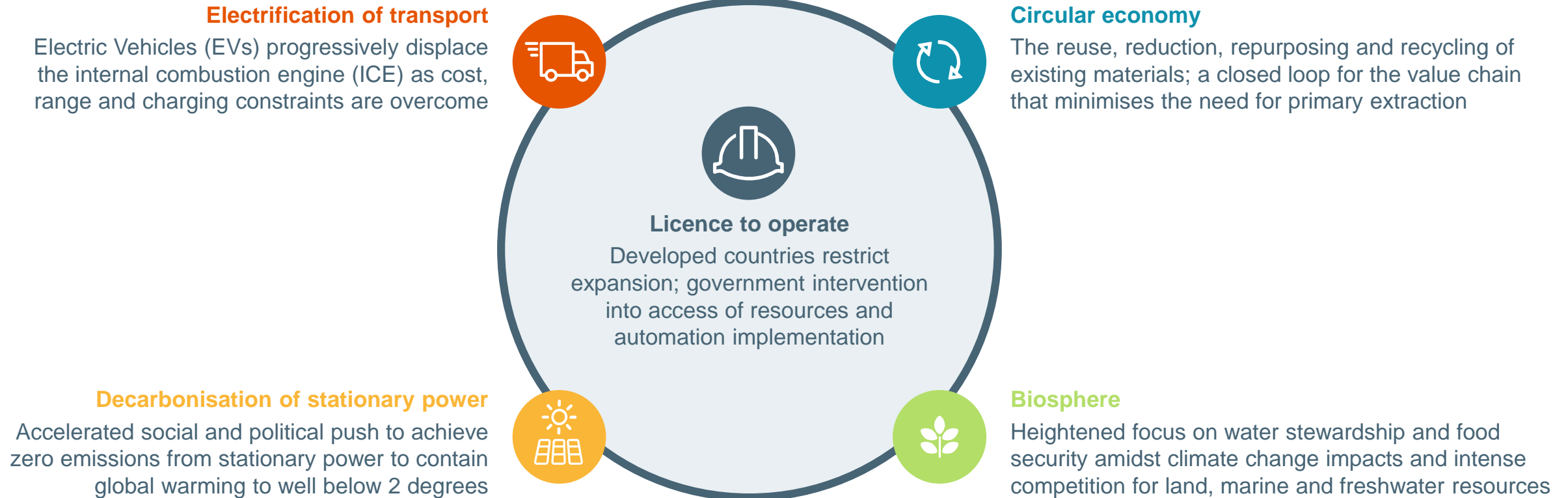


BHP

Competitive portfolio of options and assets

We monitor and test strategic themes

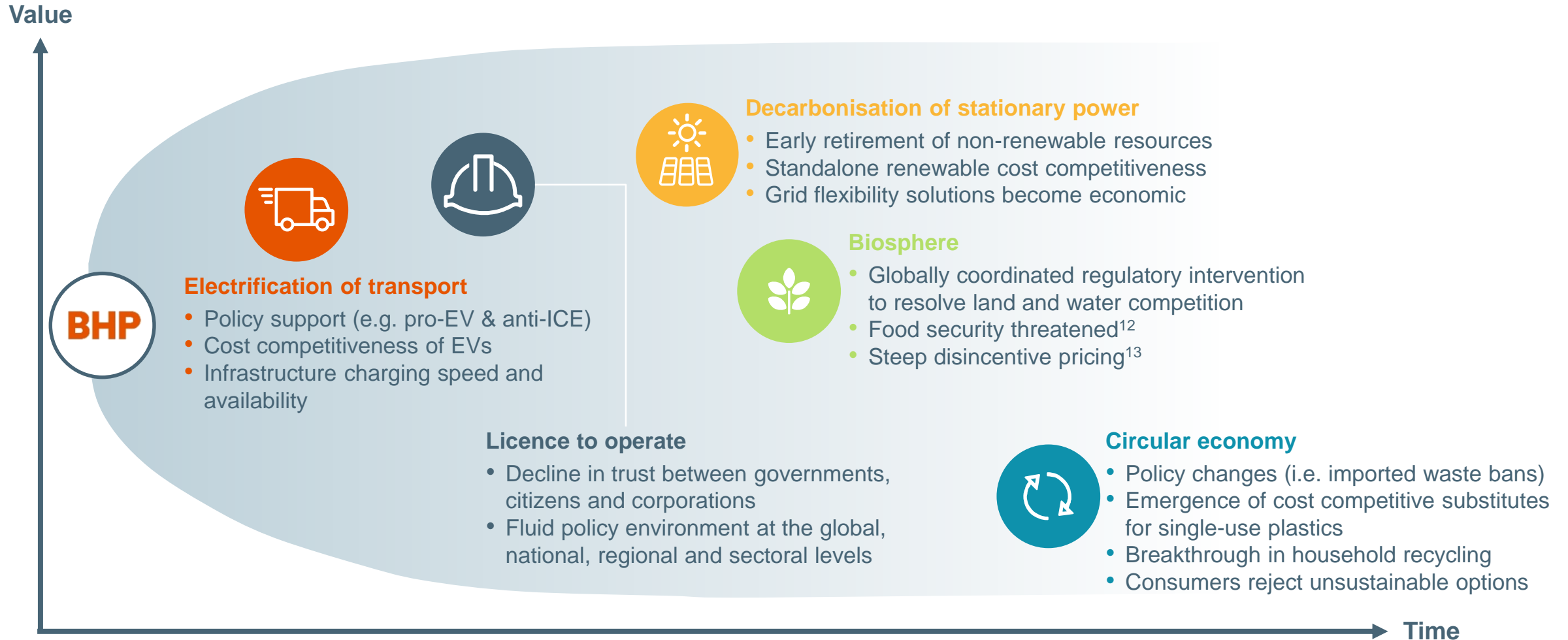
Extreme, but plausible, scenarios used as bookends to test the portfolio and identify future opportunities and risks



Note: Themes are not mutually exclusive or exhaustive, outcomes from one theme could impact our view on severity, timeframes, or strategic considerations for other themes.

Well positioned to mitigate impacts and create value

Understanding the signposts allows us to identify common no-regret actions and future decision points



Note: Represents possible impact on our portfolio if no action is taken to mitigate against risks or seize opportunities. Themes are not mutually exclusive or exhaustive, outcomes from one theme could impact our view on severity, timeframes, or strategic considerations for other themes.

Implications for strategy: Electrification of transport



Portfolio advantaged through exposures in copper and nickel with further options available to take advantage of the trend



Commodities

- ✓ **Nickel:** major driver for Class I demand; scarce sulphide resource, inducing higher-capex, lower-grade laterites
- ✓ **Copper:** significantly more demand required for EVs to induce high-cost supply
- ✓ **Oil:** headwinds, but supply expected to decline faster than demand, maintaining inducement economics
- ± **Lithium:** support, but abundance of resource allows supply to keep pace at relatively low cost
- ± **Cobalt:** support, but to lose share in battery chemistry to nickel



Assets

- Strong environment for development and expansion of copper assets (e.g. Olympic Dam, Resolution)
- Copper assets in non-OECD countries likely to be required to meet demand
- Increased attractiveness of nickel options as nickel sulphides likely to be scarce
- Conventional oil assets to remain attractive for several decades
- Opportunities to lower our carbon footprint and operating cost as heavy duty EVs become more competitive



Capabilities

- Block caving skills in copper to become a required skill set
- Technology breakthroughs to unlock low grade copper resource in mature assets
- Exploration and development capabilities in nickel sulphides a strategic enabler
- Exploration and development capabilities in conventional oil to remain a required skill set
- Resource access in new jurisdictions vital, enabled by social value and strategic partnerships

Note: Not an exhaustive list for all commodities, assets and capabilities. This represents our initial view to only material impacts on our portfolio.

Implications for strategy: Licence to operate



Assets already permitted with low geopolitical risk likely to increase in value while new resource harder to develop



Commodities

- ✓ **Iron ore, copper, nickel and metallurgical coal:** potentially positive as new projects find approvals difficult to secure
- ✓ **Potash:** positive contributor to more sustainable land use and food security
- ? **Uranium:** green energy profile but long-term societal attitudes unclear
- × **Energy coal:** projects difficult to motivate
- × Potential for value erosion across value chains for all carbon intensive industries (scope 3 emissions costs)



Assets

- All assets with permits already in place are advantaged as new developments take longer and are more expensive
- Strong environment for Jansen option and provides differentiated growth potential
- Energy coal assets are challenged
- Economics of Olympic Dam expansion more (less) attractive based on societal acceptability of nuclear

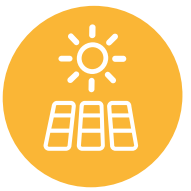


Capabilities

- Social value becomes a major competitive advantage
- Water stewardship a key enabler
- Identifying the right partners in the right locations will be necessary
- Labour productivity remains vital as costs are subject to upwards pressure
- Tax transparency, high standards of governance, workforce engagement, diversity and inclusion are key enablers

Note: Not an exhaustive list for all commodities, assets and capabilities. This represents our initial view to only material impacts on our portfolio.

Implications for strategy: Power decarbonisation



Risks associated with carbon-exposed commodities offset by upside to copper and nickel



Commodities

- ✓✓ **Copper:** intensive use in renewable power capacity, but low cost power raises aluminium substitution
- ✓ **Nickel:** incremental demand from storage; cheap transmitted electricity to stimulate other uses (e.g. EVs)
- ? **Gas:** could be leapfrogged by renewables in the power sector in developing countries
- ? **Uranium:** green energy profile but societal attitudes unclear
- × **Energy coal:** phased out, potentially sooner than expected



Assets

- Strong environment for development and expansion of copper assets (e.g. Olympic Dam, Resolution), uranium neutral
- Copper assets in non-OECD countries likely to be required to meet demand
- No appetite for growth in energy coal regardless of asset attractiveness
- Gas discoveries attractive if near LNG ullage, but large capital investments and long pay-backs carry more risk



Capabilities

- Block caving skills in copper to become a required skill set
- New resource access in new jurisdictions vital, enabled by social value
- Technology breakthroughs to unlock low grade copper resource
- Exploration and development capabilities in (scarce) nickel sulphides a strategic enabler
- Decarbonisation of our value chain through carbon capture use and storage (CCUS)

Note: Not an exhaustive list for all commodities, assets and capabilities. This represents our initial view to only material impacts on our portfolio.

Implications for strategy: Biosphere



A positive world for potash and one that favours assets with existing cost effective water stewardship strategies



Commodities

- ✓✓ **Potash:** high demand case as food insecurity drives an increased need for potassium
- × **Hydrocarbons:** causal factors in unsustainable land and water use fall out of favour
- ± Cost curves for many commodities will rise and steepen as the cost of water treatment and water security increases



Assets

- Strong environment for Jansen option
- Challenging for energy coal assets
- Conventional oil assets likely to remain attractive but cost will be key
- Escondida and Pampa Norte insulated due to existing water stewardship strategies and could be advantaged if the copper cost curve steepens
- Asset location is an increasingly key strategic consideration for growth options



Capabilities

- Heightened importance on judicious capital allocation, with particular attention to investment time horizons in challenged commodities
- Water stewardship and sustainable operating practices are vital to driving competitive advantage
- Social value creation through investments tackling loss of biodiversity, and other macro-environmental challenges, takes on increased importance

Note: Not an exhaustive list for all commodities, assets and capabilities. This represents our initial view to only material impacts on our portfolio.

Implications for strategy: Circular economy



A very challenging environment, with potential growth provided by potash



Commodities

- ✓ **Copper:** likely to remain supported by new demand sources, even as recycling increases
- ✓ **Potash:** higher crop residue recycling and declining food waste, but demand growth still highly likely
- ✗ Material risk to most commodities, with a combination of redesign, reduction, reuse and recycling all pointing towards lower reliance on primary demand
- ? Expect some commodities to have less downside risk than others: iron ore vs metallurgical coal; gas vs oil



Assets

- Still room for growth in copper, but a transition to lower cost resources will be required
- Jansen an attractive option for differentiated growth
- Gas assets with installed infrastructure (e.g. NWS) likely to be well placed
- A more holistic view of supply may be required, including participating in different parts of the value chain (e.g. primary nickel supply, combined with recycling batteries, to produce precursor)



Capabilities

- Transformation agenda will be key to cost control and efficiency
- Social value critical to secure strategic partnerships with end-users (e.g. auto makers) to manage and participate in lifecycle product chains
- Sustainable supply chain will be important with the support of advanced technological capabilities

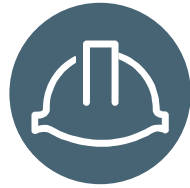
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Implications for strategy

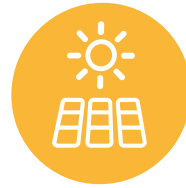
Positioning our portfolio to seize opportunities as they emerge



Electrification of transport



Licence to operate



Decarbonisation of stationary power



Biosphere



Circular economy

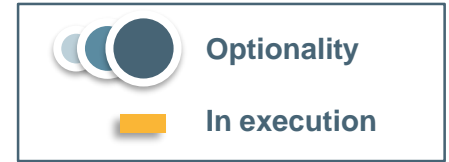
Social value credentials, strategic partnerships, market intelligence, resource access and resource development capabilities are all critical

- | | | | | |
|--|---|---|--|---|
| <ul style="list-style-type: none"> ▲ Copper and nickel advantaged ▲ Existing growth options enhanced ▶ Oil still attractive, but less so than base case | <ul style="list-style-type: none"> ▲ Increased value arising from incumbency ▼ Energy coal assets look challenged ▲ Social value a competitive advantage | <ul style="list-style-type: none"> ▼ Challenges to carbon-exposed commodities ▲ Offset by tailwinds for copper ▲ Long dated benefit for nickel | <ul style="list-style-type: none"> ▲ Potash a valuable growth option ▲ Water stewardship a key enabler ▼ Some commodities seen as “part of the problem” | <ul style="list-style-type: none"> ▼ Risk to primary demand in many commodities ▶ Potential migration of economic profit downstream ▲ Potash somewhat insulated from overall trend |
|--|---|---|--|---|

Conventional oil, copper and nickel sulphides are attractive; energy coal is challenged; potash is a valuable long-term option

Broad suite of attractive opportunities

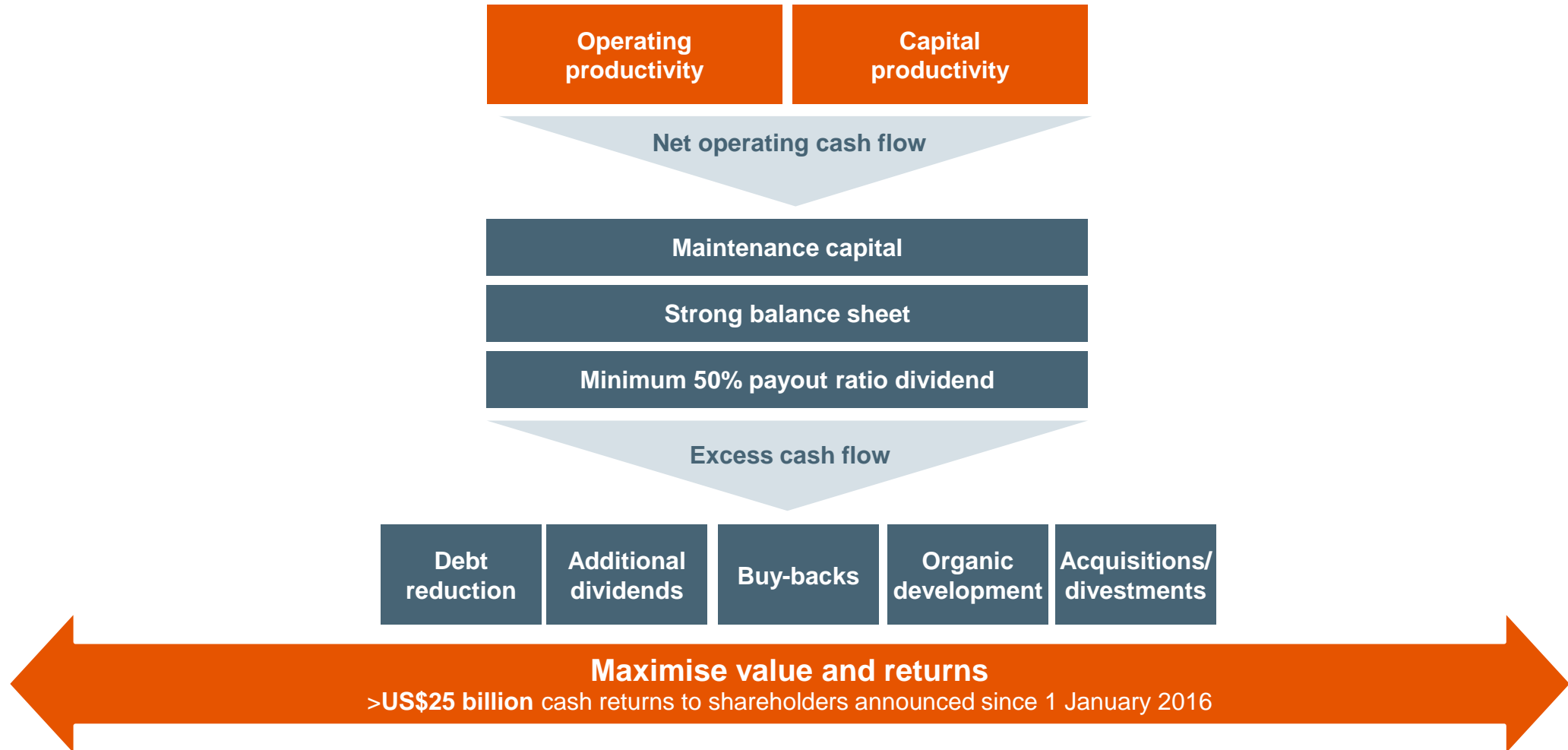
Our portfolio is in great shape today but we have more to do



Note: Olympic Dam Expansion Project refers to heap leach technology development option.

Our framework promotes discipline in all capital decisions

Our Capital Allocation Framework is transparent and embeds discipline



Key messages

Our strategy identifies how to position the portfolio to maximise long-term value and deliver high returns for shareholders

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BHP's investment proposition: maximise cash flow; maintain capital discipline; increase value and returns

BHP

Appendix

Transformation – delivers significant value

Increase in productivity, reduction in costs and application of technology

Initiatives	Value ¹⁴	Timing ¹⁵	Capex over 5-years (US\$m)	Description
WAIO		~5 years	<800	<ul style="list-style-type: none"> - BHP Operating System: piloted at Port Hedland and Perth Repair Centre - Value Chain Automation: focused on haulage, shiploaders, rail, integrated mine platforms and decision systems - Latent capacity: supply chain debottlenecking initiatives at the port and rail to increase production sustainably to 290 Mtpa
Queensland Coal		~5 years	~1,000	<ul style="list-style-type: none"> - BHP Operating System: piloted at Peak Downs and Caval Ridge - Value Chain Automation: focused on haulage, integrated mine platforms and decision systems - Latent capacity: focused on pre-strip productivity through equipment availability (including better maintenance strategies), utilisation and rate
Olympic Dam		~10 years	<300	<ul style="list-style-type: none"> - BHP Operating System: piloted at Olympic Dam surface operations - Value Chain Automation: replicate Integrated Remote Operations Centre - Latent capacity: continued development into the Southern Mine Area to access higher grade ore and refinery debottlenecking
Escondida		Various	<200	<ul style="list-style-type: none"> - BHP Operating System: piloted at Escondida concentrators - Value Chain Automation: focused on haulage and precision mining - Latent capacity: debottlenecking and extending infrastructure life
Spence		Various	<200	<ul style="list-style-type: none"> - BHP Operating System: piloted at leaching operations - Value Chain Automation: focused on haulage, drills and precision mining - Latent capacity: reprocessing of ripios dumped since the beginning of operations
World Class Functions		<5 years	~300	<ul style="list-style-type: none"> - Increased focus on the most important activities and cross-functional ways of working to drive world-class performance across culture, effectiveness and efficiency
Aggregate			~US\$3 bn	Potential aggregate NPV ¹⁴ in the tens of billions of dollars



Future options – worked for value, timed for returns

Investment decisions made in accordance with our Capital Allocation Framework and fully consider the broader market impact

Options	Description	Potential execution timing	Capex (US\$m)	Tollgate	IRR ¹⁴	Risk ¹⁶ (1-5)	Investment considerations
Ruby Petroleum	Tie back into existing processing facilities in Trinidad & Tobago	<1 year	>250	Feasibility	>15	●●	<ul style="list-style-type: none"> - Similar scope to existing tie backs - Utilisation of existing facility capacity - Early life sensitivity to oil price
Mad Dog northwest water injection Petroleum	Incremental production of existing A-Spar production wells in Mad Dog field	<5 years	>250	Pre-feasibility	*	Non Operated	<ul style="list-style-type: none"> - Resilient to price - Low risk, robust economics - Non-operated JV
Scarborough Petroleum	Tie back development to existing LNG facility	<5 years	<2,000	Pre-feasibility	*	Non Operated	<ul style="list-style-type: none"> - Tier 1 resource - Ability to process through existing infrastructure - Oversupply of LNG driving low price market environment - Remote field location, deep water, severe metocean conditions
Olympic Dam BFX ¹⁷ Copper	Development into the Southern Mine Area, debottlenecking of existing surface infrastructure to increase production capacity to 240-300 ktpa	<5 years	Up to ~2,500	Pre-feasibility	12-25	●●	<ul style="list-style-type: none"> - Access to additional resource in Southern Mine Area - Accelerated additional production - Continued resource definition - Power network instability
Resolution Copper	Underground block cave with attractive grade profile and competitive cost curve position	>5 years	<3,000	Concept	~15	Non Operated	<ul style="list-style-type: none"> - High copper grades - Resilient to price - Non-operated JV - Technical risk due to caving at the resource depth and tailings options - Permitting requirements
Jansen Stage 1 ¹⁸ Potash	Tier 1 resource with potential initial capacity of 4.3-4.5 Mtpa, with valuable expansion optionality	<5 years	5,300-5,700	Feasibility	14-15	●●●	<ul style="list-style-type: none"> - Tier 1 resource, stable jurisdiction - Operating costs of ~US\$100/t (FOB Vancouver, excluding royalties) - Unrivalled position of land - Risk of market oversupply - New commodity entry - Sensitive to price - High capital cost and long payback
Jansen Stage 2-4 ¹⁸ Potash	Sequenced brownfield expansions of up to 12 Mtpa (4 Mtpa per stage)	>15 years	~4,000 per stage	Opportunity assessment	~20	●●	<ul style="list-style-type: none"> - Long term growth optionality and value generation - Adds diversification to BHP's portfolio - Risk of market oversupply - Complexities from project size - Significant capital requirement - Further de-risking required
Aggregate					~17		Aggregate unrisks value ¹⁴ of ~US\$14 billion spanning commodities and time periods

Note: * Mad Dog northwest water injection and Scarborough IRRs under review with joint venture partners.

Exploration – extending our conventional reserve life

Investment decisions made in accordance with our Capital Allocation Framework and fully consider the broader market impact

Options	Location	Ownership	Maturity	Earliest first production	Description	Planned future activity
Trion Petroleum	Mexico - Gulf of Mexico	60% Operator	Appraisal	Mid 2020s	Large oil discovery in the Mexican deepwater Gulf of Mexico.	Additional appraisal well approved; expected to spud in December 2019 half
Wildling Petroleum	US - Gulf of Mexico	80+% Operator	Appraisal	Mid 2020s	Large oil resource across multiple horizons near operated infrastructure in US Gulf of Mexico	Complete appraisal to optimise development plan
Samurai Petroleum	US - Gulf of Mexico	50%	Appraisal	Early 2020s	Oil discovery in the Wildling mini basin	Operator has commenced pre-FEED activities following Samurai-2 discovery in 2018
Northern Gas Petroleum	Trinidad and Tobago	70% Operator	Exploration	Mid 2020s	Potential material gas play in Deepwater Trinidad, well positioned to the Atlantic LNG plant onshore T&T	Currently drilling to test exploration prospects following the recent Bongos-2 success and Bele-1 encountered hydrocarbons
Magellan Southern Gas Petroleum	Trinidad and Tobago	65% Operator	Exploration	Mid 2020s	Potential material gas play in Deepwater Trinidad, well positioned to the Atlantic LNG plant onshore T&T	Rig completed 2 well exploration program in October 2018; incorporating results
Western GOM Petroleum	US - Gulf of Mexico	100% Operator	Frontier	Early 2030s	Acquired a significant acreage position in Western Gulf of Mexico	Completed acquisition of Ocean Bottom Node seismic survey ¹⁹ ; process & analyse seismic and incorporate into ongoing analysis
Trinidad Oil Petroleum	Trinidad and Tobago	65-70% Operator	Frontier	Late 2020s	Potential oil play in deepwater Trinidad	Geologic analysis ongoing
Orphan Basin Petroleum	Canada	100% Operator	Frontier	Early 2030s	Recent bid success for blocks with large oil resource potential in the offshore Orphan Basin in Eastern Canada	Geologic analysis ongoing
Multi-billion barrel equivalent risked potential; unrisked NPV of up to US\$15 billion²⁰						

Projects in feasibility

	Autonomous truck hauling	Ruby	Jansen Stage 1
	Australia	Trinidad and Tobago	Saskatchewan, Canada
	Automating ~500 haul trucks across Western Australia Iron Ore and Queensland Coal sites	Oil and gas development consisting of five production wells tied back into existing operated processing facilities in Trinidad & Tobago.	Shaft equipping, mine development, processing facility, site infrastructure and outbound logistics.
Operator	BHP	BHP	BHP
BHP ownership	Various	68%	100%
Capex (US\$m)	<800	~330	5,300 – 5,700
Phase / timing	Feasibility study phase First of several investment decision expected in CY19 (capex represents full amount)	Feasibility study phase Investment decision expected in CY19	Feasibility study phase
First production / Project delivery	Staged rollout between CY20 and CY23	FY22	~5 years from sanction to commissioning ~2 years from first production to ramp up
Volumes (100% basis at peak)	n/a	16,000 bopd (oil) + 80 MMscf/d (gas)	4.3 – 4.5Mtpa (Potassium chloride, KCL)
Other considerations	Site by site decision on roll out	12.5% royalty Production entitlements paid in-kind under PSA	6% royalty Federal and Provincial Corporate income tax and Potash Production Tax ²¹

Note: Ruby ownership based on current participating interest per the Joint Operating Agreement. PSA – Production Sharing Agreement.

Statement of Petroleum Resources

Petroleum Resources

The estimates of Petroleum Reserves and Contingent Resources contained in this presentation are based on, and fairly represent, information and supporting documentation prepared under the supervision of Mr. A. G. Gadgil, who is employed by BHP. Mr. Gadgil is a member of the Society of Petroleum Engineers and has the required qualifications and experience to act as a qualified Petroleum Reserves and Resources evaluator under the ASX Listing Rules. This presentation is issued with the prior written consent of Mr. Gadgil who agrees with the form and context in which the Petroleum Reserves and Contingent Resources are presented.

Reserves and Contingent Resources are net of royalties owned by others and have been estimated using deterministic methodology. Aggregates of Reserves and Contingent Resources estimates contained in this presentation have been calculated by arithmetic summation by category. The barrel of oil equivalent conversion is based on 6000 scf of natural gas equals 1 boe. The Reserves contained in this presentation are inclusive of fuel required for operations. The respective amounts of fuel for each category are provided by footnote for the resource graphics. The custody transfer point(s)/point(s) of sale applicable for each field or project are the reference point for Reserves and Contingent Resources. Reserves and Contingent Resources estimates have not been adjusted for risk. Unless noted otherwise, Reserves and Contingent Resources are as of 30 June of the indicated financial year. Where used in this presentation, the term Resources represents the sum of 2P reserves and 2C Contingent Resources.

BHP estimates Proved Reserve volumes according to SEC disclosure regulations and files these in our annual 20-F report with the SEC. All Unproved volumes are estimated using SPE-PRMS 2007 guidelines, which among other things, allow escalations to prices and costs, and as such, would be on a different basis than that prescribed by the SEC, and are therefore excluded from our SEC filings. All Resources and other Unproved volumes may differ from and may not be comparable to the same or similarly-named measures used by other companies. Non-proved estimates are inherently more uncertain than proved.

The SEC permits oil and gas companies, in their filings with the SEC, to disclose only Proved, Probable and Possible Reserves, and only when such Reserves have been determined in accordance with SEC guidelines. We use certain terms in this presentation such as "Resources," "Contingent Resources," "2C Contingent Resources" and similar terms as well as Probable Reserves not determined in accordance with the SEC's guidelines, all of which measures we are strictly prohibited from including in filings with the SEC. These measures include Reserves and Resources with substantially less certainty than Proved Reserves. U.S. investors are urged to consider closely the disclosure in our Form 20-F for the fiscal year ended June 30, 2018, File No. 001-09526 and in our other filings with the SEC, available from us at <http://www.bhp.com/>. These forms can also be obtained from the SEC as described above.

Mineral Resources and Competent Persons statement

Competent Person Statement

The information in this presentation that relates to the FY2018 and FY2013 Mineral Resources (inclusive of Ore Reserves) were first reported by the Company in compliance with the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves, 2012' ('The JORC Code 2012 Edition') in the 2018 BHP Annual Report and the 2013 BHP Billiton Annual Report respectively. Both reports are available to view on www.bhp.com.

The detailed breakdown of Mineral Resources for all assets are shown in the Annual Reports on 100% basis, with corresponding BHP interest. Compilation of Mineral Resources information from 2013 is included in this presentation to provide a portfolio comparison between these two dates. Divested assets are no longer owned or operated by BHP and the majority of these were demerged into South32 in May 2015. Other divestments are noted in the corresponding BHP Annual Reports.

In relation to the 2018 Mineral Resources, the company confirms that it is not aware of any new information or data that materially affects the Mineral Resources information included in the original 2018 market announcement and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the original market announcement.

The information in this presentation that relates to Mineral or Coal Resources is based on information compiled by: L Moharana (MAusIMM) for Western Australia Iron Ore (WAIO) and Divested assets (Alumar including MRN, Worsley, GEMCO, Hotazel); R Macpherson (MAIG) for Minerals Australia Energy Coal, Metallurgical Coal - Operations and Projects including Queensland CQCA-JV, Gregory JV (divested on 27 March 2019; available on www.bhp.com) and BHP Mitsui Coal and Projects and Divested assets (Illawarra Coal and BECSA); M Menicheli (MAusIMM) for Nickel West Operations and Nickel Colombia (Cerro Matoso); D Clarke (MAusIMM) for Olympic Dam; M Williams (MAusIMM) for Escondida District, Pampa Norte, Antamina, Pinto Valley, Cerrejón, New Mexico Coal, Samarco; J McElroy (MAusIMM) for Minerals Americas Jansen Project and M Furness (MAusIMM) for Cannington.

All of the people listed above are full-time employees of BHP and have sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' and consent to the inclusion in the presentation of the matters based on this information in the form and context in which it appears.

Resources and metal equivalent calculations

Please refer to detailed tables in the Appendix, slides 30 to 33, for Mineral Resource classifications (100% basis) for each asset / deposit included in the average copper equivalent resource size per minerals asset calculations on slide 9 of this presentation.

Resource base (equity share basis) is converted to copper equivalent tonnes using FY2018 average realised prices as reported in the BHP results for the year ended 30 June 2018 for Metallurgical Coal, Energy Coal, Iron Ore, Copper and Nickel. The conversion of U3O8, Au, Ag and Zn use prices as reported in the BHP 2018 US Securities and Exchange Commission Form 20-F. Potash price used is US\$233/t, Molybdenum US\$7.11/lb, Lead US\$0.87/lb, Aluminium US\$2,132.98/t and Manganese Ore US\$198.32/t.

The reporting of Mineral Resources for polymetallic deposits in terms of metal equivalents (a single equivalent grade of one major metal) is based on FY2018 average realised prices as reported in the BHP results for the year ended 30 June 2018 for Cu and for other metals the BHP 2013 and 2018 Form 20-F submissions (unless otherwise stated). The metallurgical recoveries applied are those footnoted for the respective operations as footnoted in the corresponding Annual Reports from 2013 and 2018. It is the company's opinion that all elements included in the metal equivalent calculation have a reasonable potential to be recovered and sold. No mining or metallurgical modifying factors were applied to the results. The following copper equivalent grade calculations are listed below.

2013 calculations

Olympic Dam: $CuEq = Cu \% + (U3O8 \text{ kg/t} \times 1.064) + (Au \text{ g/t} \times 0.459) + (Ag \text{ g/t} \times 0.0089)$; Spence: $CuEq = Cu \% + (Mo \% \times 3.039)$; Antamina Sulphide Cu-only: $CuEq = Cu \% + (Mo \% \times 2.048) + (Ag \text{ g/t} \times 0.0097)$; Antamina Sulphide Cu-Zn: $CuEq = Cu \% + (Zn \% \times 0.45) + (Ag \text{ g/t} \times 0.0096)$; Cannington: $PbEq = Pb \% + (Ag \text{ g/t} \times 0.043) + (Zn \% \times 0.95)$, Molybdenum price used is US\$11.18/lb.

2018 calculations

Olympic Dam: $CuEq = Cu \% + (U3O8 \text{ kg/t} \times 0.709) + (Au \text{ g/t} \times 0.407) + (Ag \text{ g/t} \times 0.0059)$; Escondida: $CuEq = Cu \% + (Au \text{ g/t} \times 0.575)$; Spence: $CuEq = Cu \% + (Mo \% \times 2.294)$; Antamina Sulphide Cu-only: $CuEq = Cu \% + (Mo \% \times 1.546) + (Ag \text{ g/t} \times 0.0065)$; Antamina Sulphide Cu-Zn: $CuEq = Cu \% + (Zn \% \times 0.33) + (Ag \text{ g/t} \times 0.0064)$.

Mineral Resources (100% basis)

Commodity Deposit	Financial year	Measured Resources (Mt)	Indicated Resources (Mt)	Inferred Resources (Mt)	BHP interest %
Minerals Australia					
<i>Iron Ore</i>					
WAIO	2018	2,750	6,500	20,020	88
	2013	2,550	4,210	14,560	88
<i>Energy Coal</i>					
Operations - Mt Arthur Coal	2018	875	1,299	1,019	100
	2013	887	2,169	670	100
Projects - Togara South	2018	719	177	1,051	100
	2013	719	177	1,051	100
<i>Metallurgical Coal - Operations</i>					
Queensland CQCA-JV	2018	3,844	2,481	2,198	50
	2013	2,561	2,882	2,353	50
Gregory JV	2018	7.9	112.7	0.3	50
	2013	7.9	130.7	0.3	50
BHP Mitsui Coal	2018	310	328	239	80
	2013	258	347	233	80
<i>Metallurgical Coal - Projects</i>					
Queensland CQCA-JV	2018	509	1,872	1,089	50
	2013	273	1,476	1,398	50
Gregory JV	2018	5.6	-	-	50
	2013	5.6	-	-	50
BHP Mitsui Coal	2018	-	1,233	176	80
	2013	-	1,457	154	80
<i>Copper</i>					
Olympic Dam	2018	3,515@0.83%Cu, 0.26kg/tonne U3O8, 0.37g/t Au, 1g/t Ag	3,292@0.69%Cu, 0.22kg/tonne U3O8, 0.29g/t Au, 1g/t Ag	3,920@0.67% Cu,0.22kg/tonne U3O8,0.26g/t Au,1g/t Ag	100
	2013	1,543@0.97%Cu, 0.29kg/tonne U3O8, 0.37g/t Au, 2g/t Ag	5,095@0.80% Cu,0.26kg/tonne U3O8,0.36g/t Au, 1g/t Ag	3,296@0.69% Cu,0.23kg/tonne U3O8,0.25g/t Au,1g/t Ag	100
<i>Nickel</i>					
Nickel West Operations	2018	175@0.71%Ni	160@0.64%Ni	209@0.67% Ni	100
	2013	214@0.61%Ni	186@0.61%Ni	150@0.59% Ni	100
Nickel West Projects	2018	156@0.59%Ni	113@0.63%Ni	209@0.67% Ni	100*
	2013	156@0.60%Ni	114@0.60%Ni	203@0.66% Ni	100*

* Projects comprise Venus, Yakabindie with 100% BHP interest and Jericho 50% BHP interest.

Mineral Resources (100% basis)

Commodity Deposit	Financial year	Measured Resources (Mt)	Indicated Resources (Mt)	Inferred Resources (Mt)	BHP interest %
Mineral Americas					
<i>Copper</i>					
Escondida District	2018	5,779@0.61% TCu	5,050@0.52% TCu	16,573@0.49 TCu	57.5
	2013	5,785@0.67% TCu	3,542@0.54% TCu	12,930@0.47% TCu	57.5
Pampa Norte	2018	921@0.52% TCu	1,189@0.48% TCu	2,565@0.37% TCu	100
	2013	593@0.63% TCu	1,386@0.49% TCu	1,275@0.40% TCu	100
Pinto Valley	2018	174@0.31% TCu	40@0.32% TCu		100
	2013	350@0.32% TCu	617@0.31% TCu	191@0.26% TCu	100
Antamina	2018	242@0.88% Cu,0.75% Zn,11g/t Ag,235 ppm Mo	804@0.90% Cu,0.75% Zn,12g/t Ag,201 ppm Mo	1,372@0.90% Cu,0.55% Zn,10g/t Ag,201 ppm Mo	33.75
	2013	183@0.77% Cu,0.60% Zn,10g/t Ag,238 ppm Mo	943@0.92% Cu,0.66% Zn,11g/t Ag,208ppm Mo	860@0.82% Cu,0.39% Zn,11g/t Ag,173 ppm Mo	33.75
<i>Potash</i>					
Jansen Project	2018	5,170@25.7% K ₂ O		1,270@25.7% K ₂ O	100
	2013	5,328@25.7% K ₂ O		1,288@25.7% K ₂ O	100
<i>Energy Coal</i>					
Cerrejon	2018	2,849	975	709	33.33
	2013	2,924	989	695	33.33
<i>Iron Ore</i>					
Samarco	2018	3,340	2,150	950	50
	2013	3,000	3,000	2,000	50

Mineral Resources (100% basis)

Commodity Deposit	Financial year	Measured Resources (Mt)	Indicated Resources (Mt)	Inferred Resources (Mt)	BHP interest %
Divested assets					
<i>Metallurgical Coal</i>					
Illawarra Coal	2013	278	455	586	100
<i>Nickel</i>					
Nickel Colombia	2013	115@1.04% Ni	186@0.9% Ni	90@0.8% Ni	99.94
<i>Energy Coal</i>					
New Mexico Coal	2013	779	265	10	100
BECSA	2013	2,572	838	2,023	90
<i>Silver Lead Zinc</i>					
Cannington	2013	68@186g/t Ag,5.35% Pb,3.26% Zn	18@122g/t Ag,3.94% Pb,2.56% Zn	10@86g/t Ag,3.25% Pb,1.80% Zn	100
<i>Aluminium</i>					
Worsley	2013	339	584	50	86
Alumar (MRN)	2013	328	81	999	14.8
GAC Project	2013	87	113	327	33.3
<i>Manganese</i>					
GEMCO	2013	85@46.5% Mn	68@40.0% Mn	37.3@41.8% Mn	60
Hotazel	2013	74.4@37.2% Mn	181.9@39.9% Mn	4.3@34.5% Mn	44.4

Mineral Resources (100% basis)

Commodity Deposit	Financial year	Measured Resources (Mt)	Indicated Resources (Mt)	Inferred Resources (Mt)	BHP interest %
Mineral Americas					
<i>Copper</i>					
Escondida deposit	2018	5,376@0.61% TCu	3,674@0.51% TCu	10,437@0.52% TCu	57.5
	2017	5,524@0.63% TCu	3,675@0.57% TCu	9,649@0.51% TCu	57.5
	2016	5,645@0.64% TCu	3,409@0.51% TCu	11,296@0.52% TCu	57.5
	2015	5,872@0.64% TCu	3,229@0.50% TCu	10,085@0.50% TCu	57.5
	2014	5,351@0.65% TCu	2,689@0.52% TCu	10,311@0.51% TCu	57.5
	2013	5,382@0.68% TCu	2,166@0.54% TCu	6,794@0.51% TCu	57.5
	2012	4,056@0.72% TCu	3,213@0.56% TCu	6,645@0.50% TCu	57.5
	2011	3,089@0.75% TCu	3,036@0.58% TCu	5,824@0.53% TCu	57.5
	2010	1,998@0.78% TCu	3,137@0.62% TCu	3,374@0.50% TCu	57.5
	2009	1,786@0.82% TCu	3,206@0.67% TCu	3,921@0.53% TCu	57.5
	2008	1,819@0.84% TCu	2,984@0.70% TCu	4,233@0.53% TCu	57.5
	2007	1,513@0.89% TCu	3,371@0.71% TCu	3,767@0.54% TCu	57.5
	2006	1,484@0.88% TCu	3,489@0.72% TCu	4,892@0.54% TCu	57.5
	2005	1,605@1.00% TCu	3,372@0.73% TCu	5,111@0.54% TCu	57.5
	2004	1,710@1.02% TCu	3,393@0.72% TCu	5,114@0.54% TCu	57.5
	2003	1,333@1.13% TCu	2,720@0.85% TCu	1,979@0.67% TCu	57.5
	2002	1,377@1.15% TCu	2,737@0.85% TCu	2,002@0.67% TCu	57.5
	2001	1,422@1.09% TCu	2,224@1.02% TCu	1,772@0.80% TCu	57.5
	2000	1,212@1.25% TCu	1,794@0.99% TCu	1,274@0.80% TCu	57.5

Footnotes

1. Slide 6: IRR (real) on a risked basis. Indicative internal analysis. Source: Thomson Reuters, BHP. Market indices reflected with Total Shareholder Return (TSR).
2. Slide 6: Reserves/Contingent Resources at 30 June 2018: 1P: 303 MMboe (10 MMboe fuel); 2P: 431 MMboe (13 MMboe fuel); 2C: 346 MMboe.
3. Slide 8: Unsustainable land and water use per the Global Assessment Report on Biodiversity and ecosystem services performed by the Intergovernmental Science-policy Platform on Biodiversity and Ecosystem Services (IPBES).
4. Slide 8: Source: International Energy Agency.
5. Slide 8: Source: PEW Research Centre (<https://www.pewglobal.org/>).
6. Slide 8: Source: IPBES (https://www.eurekalert.org/pub_releases/2019-05/tca-ind050519.php).
7. Slide 8: Source: Bloomberg New Energy Finance.
8. Slide 8: 93% refers to the increase in the monthly standard deviation of the global economic policy uncertainty index, PPP-weighted, for 2011-2019YTD versus 2002-2010. Source: (www.policyuncertainty.com).
9. Slide 9: Divestments: announced or completed from FY13 onwards.
10. Slide 9: Segment EBITDA: percentage contribution to Group Underlying EBITDA, excluding Group and unallocated items.
11. Slide 9: Unrisked NPV and IRRs: as presented at the Bank of America Merrill Lynch Global Metals and Mining Steel Conference on the 14 May 2019.
12. Slide 12: Food security threatened by land degradation, water quality and availability, climate change impacts.
13. Slide 12: Steep disincentive pricing (e.g. carbon price, taxes on non-sustainable forestry, nitrogen fertiliser run-off).
14. Slide 24, 25: Returns (IRR) and value (NPV): Calculated at 2019 analyst consensus price forecasts (except Potash which are at CRU and Integer (Argus Media) price forecasts); ungeared, post-tax, nominal rates.
15. Slide 24: Timing: Represents ramp-up to steady state.
16. Slide 25: Risk: Based on a BHP assessment of each project against defined quantified and non-quantified risk metrics rated out of 5; 5 represents more risk.
17. Slide 25: Olympic Dam: IRR of 12-25% represents different development options of varying levels of certainty. The upper end of range relates to investment in a potential lower capital and production development towards BFX.
18. Slide 25: Jansen: Based on CRU and Integer (Argus Media) price assumptions (2025-2035 average mid-case: CRU US\$325/t and Integer (Argus Media) US\$342/t, rebased). Jansen Stage 1 IRR of 14-15% reflects capex range and excludes remaining funded investment of ~US\$0.3 billion for completion of the shafts and installation of essential service infrastructure and utilities. Jansen Stages 2-4 capex is presented in real terms (July 2019) – those options would be brownfield and predominately require surface infrastructure, with shorter construction schedules and less risk than Stage 1. The execution of future stages would be subject to our review of supply and demand fundamentals and successful competition for capital under our Capital Allocation Framework. However, we expect that each subsequent expansion would be approved for development after the previous expansion had reached 3 to 4 years of full production. The existing shafts are capable of supporting production for Stages 2-4.
19. Slide 26: WGOM OBN 2018 Seismic Permit is OCS Permit T18-010.
20. Slide 26: Petroleum exploration and appraisal NPV: Unrisked values at BHP long-term price forecasts.
21. Slide 27: Below are tax consideration for Jansen Stage 1 project. Withholding tax on dividend payments under the current corporate structure is 5%.
 - Royalties: 6% of mine gate revenue (revenue less port and rail costs)
 - Federal and Provincial Corporate Income taxes: Combined top rate 27% (Carried forward losses from pre-production years can be utilised to decrease future taxable profits)
 - Potash Production Tax (PPT), two components.
 - Both components are calculated based on K₂O tonnes. Thus potassium chloride (KCL) needs to be converted to potassium oxide (K₂O), with a conversion rate of 0.6.
 - A base payment levied at a rate of 35% on the producer's annual resource profits, subject to minimum payment of CAD\$11.00 and a maximum of CAD\$12.33 per K₂O tonne sold. New producers may qualify for a base payment holiday for the first 10 years of production.
 - A profit tax imposed on the producer's gross annual profit tax that is determined by rates, which increase with profits per tonne sold, as follows: 15% of the profit per tonne below CAD \$66.95 and 35% of the profit per tonne above CAD \$66.95 (tax brackets are indexed for inflation). Profit tax is assessed on a maximum of 35% of total tonnes sold, but producers may claim a base payment credit with respect to amount of tonnes that are subject to both the base payment and the profit tax. There are no tax holidays available for the profit tax.

BHP