



# BHP

## Disciplined delivery of value and returns

Andrew Mackenzie  
Chief Executive Officer  
15 May 2018

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## Presentation of data

Base value reflects the current planning forecasts before the addition of a broad suite of upside opportunities. Some of these remain subject to receipt of internal and third party approvals. Unless specified otherwise: value represents BHP share of risked discounted cash flows at consensus prices; copper equivalent production based on 2017 financial year average realised prices (as published in BHP's Results for the year ended 30 June 2017 on 22 August 2017); 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 18.

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**Andrew Mackenzie, Chief Executive Officer**

**15 May 2018**

# Key messages

## Maximise cash flow

**Constructive outlook**  
strong demand; disciplined supply<sup>1</sup>

**US\$2 bn productivity**  
gains targeted by end FY19

## Capital discipline

**Net debt in target range**  
of US\$10-15 bn

**<US\$8 bn p.a. to FY20**  
capital and exploration guidance

## Value and returns

**~20% ROCE**  
targeted by FY22e<sup>2,3</sup>

**Up to 40% upside**  
potential in base value<sup>4</sup>

# Value and returns are at the centre of everything we do

## Simple portfolio

Diversified commodities



Tier 1 upstream assets



Attractive geographies



Valuable options



**Shareholder  
value and  
returns**



**Licence to  
operate**

## Distinctive enablers

Charter Values and  
culture of connectivity



Safety, productivity and  
operational excellence



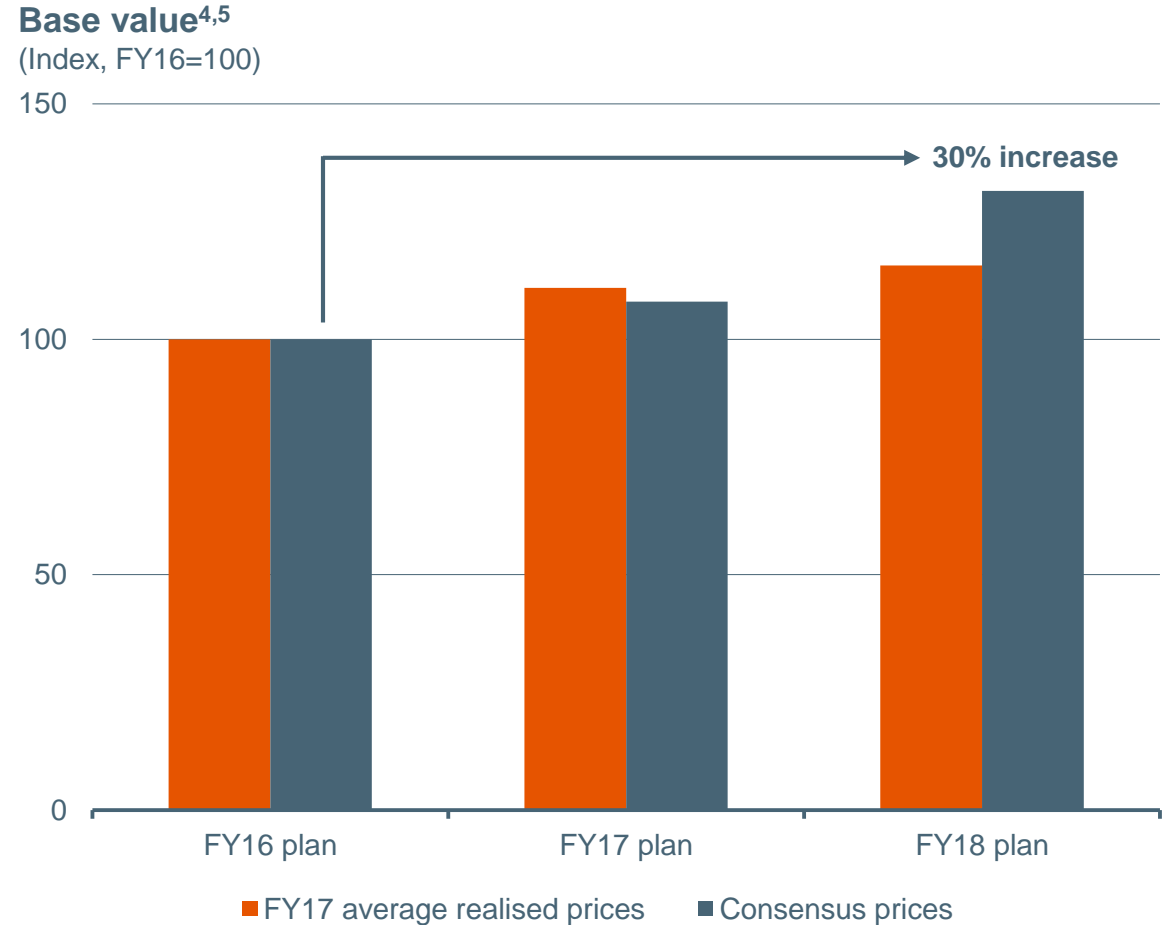
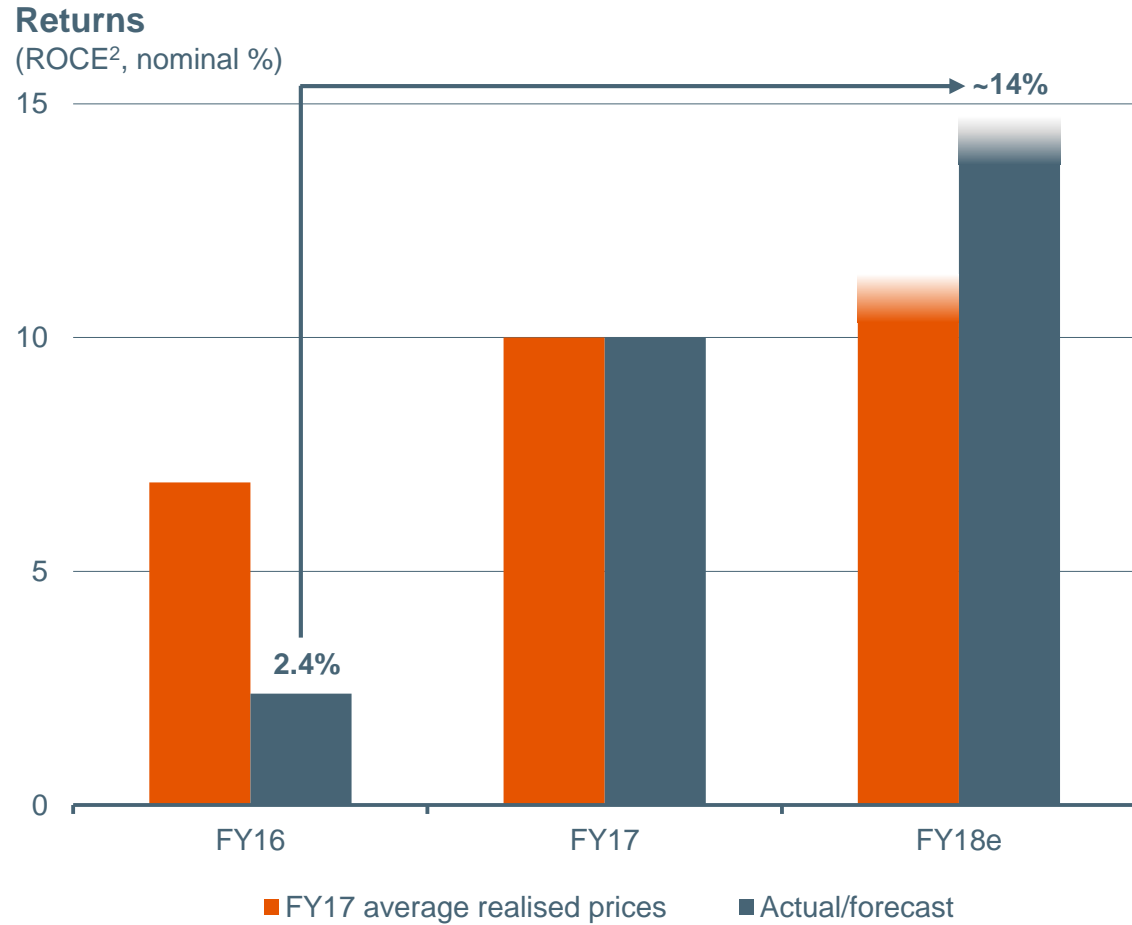
Technology and  
globalised systems



Capital Allocation Framework  
and balance sheet strength



# Our plans are delivering



Note: Base value reflects the current planning forecasts before the addition of a broad suite of upside opportunities.

# We have built base value over the last two years

<b>Cost efficiencies</b>  <b>&gt;15%</b>  Unit cost reduction <sup>6</sup>	<b>Technology</b>  <b>3</b>  New IROCs implemented or in progress at our operated Minerals assets	<b>Latent capacity</b>  <b>5</b>  Projects sanctioned at average returns <sup>7</sup> of ~60%
<b>Future options</b>  <b>2</b>  Projects sanctioned; Mad Dog 2, Spence Growth Option	<b>Exploration</b>  <b>4</b>  Conventional petroleum discoveries; Caicos, Wildling, LeClerc, Ruby; successful Trion bid	<b>Onshore US</b>  <b>Exit</b>  For value and to increase returns; supportive environment, encouraging bidder interest

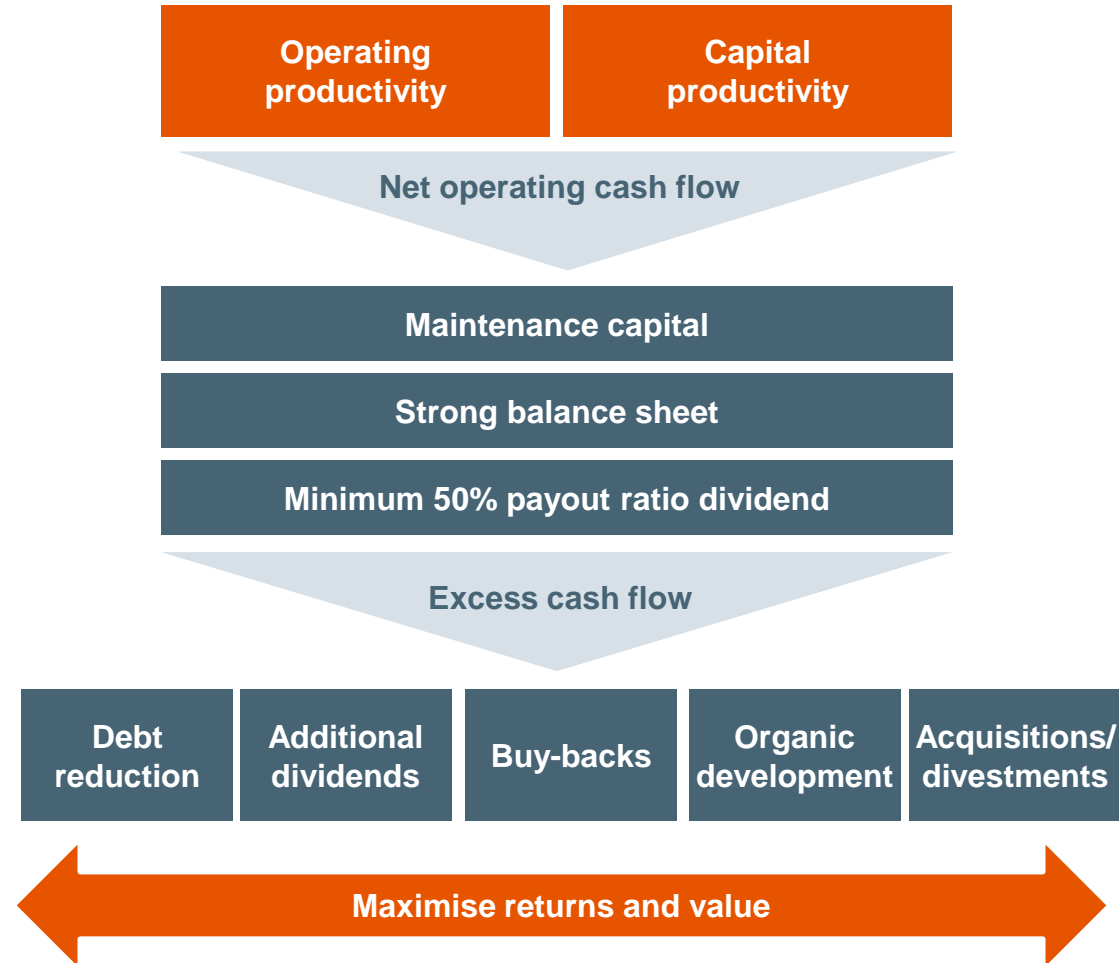
# Future opportunities offer further upside

Existing suite of options offers potential for a further 40%<sup>8</sup> risked upside to base value

<b>Cost efficiencies</b>  <b>US\$2 bn</b>  Productivity gains targeted by end FY19	<b>Technology</b>  <b>Fully integrated</b>  And highly automated from resource to market by 2025	<b>Latent capacity</b>  <b>&gt;100%</b>  Average returns from our replenished suite of options
<b>Future options</b>  <b>~17%</b>  Average returns from our longer term opportunities <sup>9</sup>	<b>Exploration</b>  <b>US\$15 bn</b>  Unrisked value of Petroleum exploration and appraisal program <sup>10</sup>	<b>Onshore US</b>  <b>End CY18</b>  Target for announced transactions

# Capital discipline, debt reduction and shareholder returns

Our capital allocation framework provides rigour and discipline to all capital decisions



# Cost efficiencies – focused on further gains

Productivity gains of US\$2 billion targeted by end FY19

## WAIO

Optimised mine planning  
Equipment/plant utilisation  
Execution of technology initiatives

Medium term<sup>11</sup>  
**<US\$13/t**

## Conventional

Organisational redesign post shale  
Advanced seismic imaging  
Maintenance standardisation

Medium term<sup>11</sup>  
**<US\$13/boe**

## Queensland Coal

Pre-strip productivity  
Equipment utilisation via IROC  
Optimised mine planning

Medium term<sup>11</sup>  
**~US\$57/t**

## Escondida

Three-concentrator productivity  
Increased fleet run time  
Maintenance strategy optimisation

Medium term<sup>11</sup>  
**<US\$1.15/lb**

# Technology – improves safety, costs and unlocks resource

Integrate and automate the value chain to unlock resource and drive a step change in safety, volume and cost

## Benchmark projects

To drive leadership in safety and productivity

### Safety and productivity

Collision avoidance  
 Equipment automation  
 System integration across value chain  
 Robotics process automation  
 Machine learning analytics  
 Chemical extraction  
 Heap leaching

## Future value

High value innovation to drive competitive advantage

### Accelerate high-value initiatives

**Mine  
autonomy**

**Decision  
automation**

**Precision  
mining**

### Proving grounds to trial and de-risk solutions in real conditions

**Coal:** dynamic supply chain optimisation tools

**Escondida:** sensor technologies to extraction process

**Olympic Dam:** heap leach program progressing

**WAIO:** acceleration of mine automation underway

Fully integrated and highly automated from resource to market by 2025

# Latent capacity – attractive returns, limited risk

Continuous replenishment of our suite of capital efficient, low risk, high return options supports the next wave of latent capacity

Options	IRR <sup>9</sup> (%)	Risk <sup>12</sup> (1-5)	Timing <sup>13</sup>	Capex (US\$m)	Description
<b>WAIO</b> Debottlenecking	>100	●	<2 years	<250	Supply chain debottlenecking initiatives at the port and rail, and releasing latent capacity at Jimblebar to increase production to 290 Mtpa
<b>Escondida</b> EWS Expansion	>50	●●	<2 years	~500	Expansion of desalination plant to reduce groundwater usage and maximise concentrator throughput
<b>Escondida</b> Debottlenecking	>100	●●	various	>500	Concentrator debottlenecking, sulphide leach reprocessing of ripios, truck and shovel fleet upgrades
<b>Spence</b> Ripios processing	~60	●●	2-5 years	250-500	Reprocessing of ripios dumped since the beginning of the Spence operations
<b>Queensland Coal</b> Latent capacity	>100	●	>5 years	>500	Investing in stripping capacity and pipeline of productivity initiatives to shift the bottleneck towards the coal handling plants
<b>Olympic Dam</b> Material handling system	~20	●	>5 years	~500	Enabling project for BFX, extending materials handling system (MHS) into Southern Mine Area
<b>Spence</b> Debottlenecking	>15	●●●	>5 years	>500	Processing lower grade hypogene material with increased recoveries, concentrator debottlenecking, in-pit semi mobile ore conveying
<b>Average/aggregate</b>	<b>&gt;100</b>			<b>~US\$4 bn</b>	<b>Up to ~2 Mt of incremental Cu eq. capacity with ~US\$16 bn unrisks NPV</b>

Note: Risk profile is based on a BHP assessment of each project against defined quantified and non-quantified risk metrics rated out of 5; 5 represents more risk.

# 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	IRR <sup>9</sup> (%)	Risk <sup>12</sup> (1-5)	Description
<b>Atlantis Phase 3</b> Petroleum	~25	Non-operated	Tie back to existing Atlantis facility unlocked through Advanced Seismic Imaging
<b>Olympic Dam BFX</b> Copper	~20	●●	Accelerated development into the Southern Mine Area, debottlenecking of existing surface infrastructure to increase production to 330 ktpa
<b>Scarborough</b> Petroleum	>15	Non-operated	Tie back development to existing LNG facility
<b>Wards Well</b> Metallurgical Coal	~15	●●●●	Long-life, premium hard coking coal resource, greenfield underground longwall mine with proximity to existing operating assets
<b>Resolution</b> Copper	~15	Non-operated	Underground block cave with attractive grade profile and competitive cost curve position
<b>Jansen Stage 1<sup>14</sup></b> Potash	~13	●●●	Tier 1 resource with operating costs of ~US\$100/t (FOB Vancouver) and valuable expansion optionality
<b>Jansen Stage 2-4</b> Potash	~16	●●	Sequenced brownfield expansions of up to 12 Mtpa (4 Mtpa per stage)
<b>Average/aggregate</b>	<b>~17</b>		<b>Aggregate unrisks value of ~US\$15 bn spanning commodities and time periods</b>

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# Exploration – focused on petroleum and copper

## Momentum building on recent discoveries

Highly prospective Petroleum exploration and appraisal program

- Multi-billion boe risked potential; unrisks NPV of up to US\$15 bn<sup>10</sup>
- Potential discoveries commercial at less than US\$50/bbl
- Farmed into Samurai prospect north of Wilding discovery

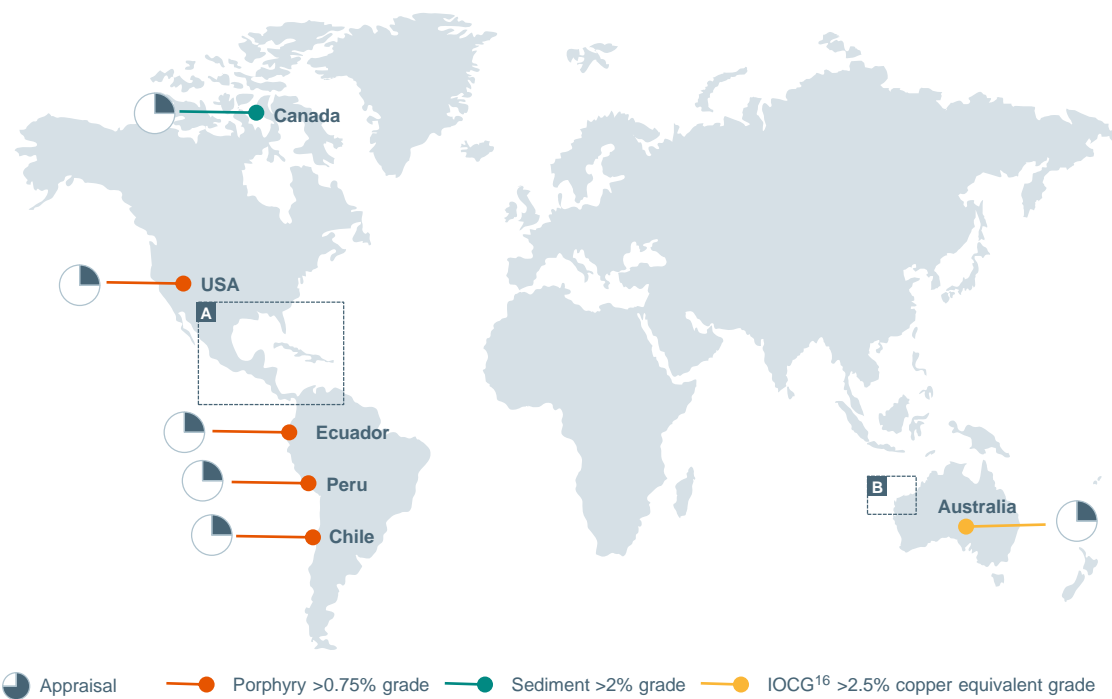
## Petroleum and Copper Exploration

(Focus areas and maturity)



Greenfield discoveries can deliver copper for US\$0.02-US\$0.04/lb<sup>15</sup>

- Focused on porphyries, IOCGs, sediment-hosted copper
- Leveraging expertise and technology from our petroleum teams
- Concessions secured and new office established in Ecuador



○ Frontier ◐ Delivering ◑ Appraisal ● Porphyry >0.75% grade ● Sediment >2% grade ● IOCG<sup>16</sup> >2.5% copper equivalent grade

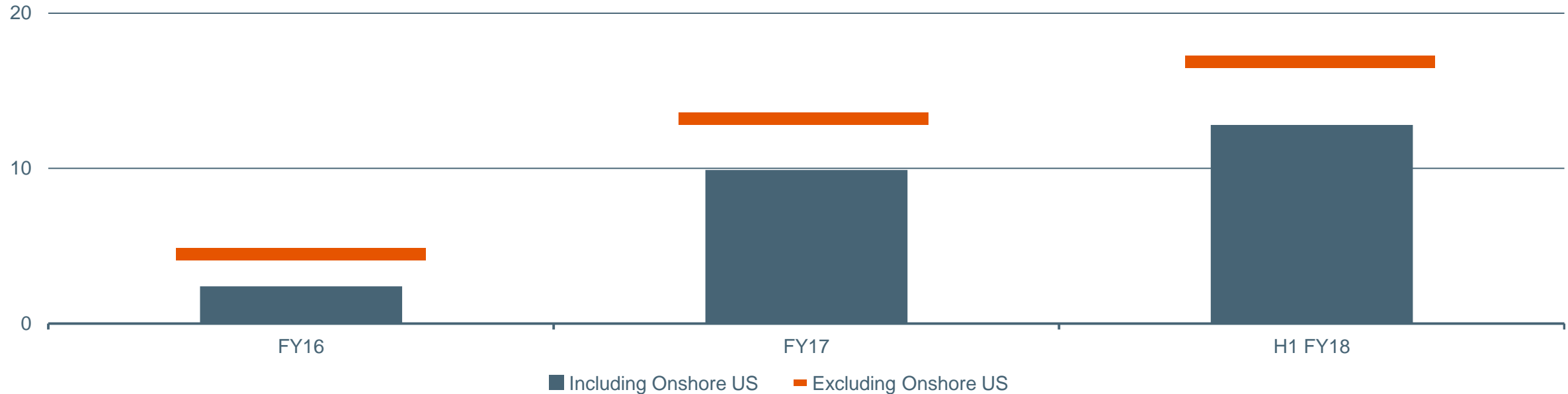
# Onshore US – exit to maximise value and returns

Process tracking to plan with bids expected by June 2018, potential for announced deal by year-end<sup>17</sup>

Backdrop	Process status	Impact
Successful well trials, higher oil price, lower tax rate support bidder interest	All data rooms open, bids expected by June; demerger/IPO assessments in parallel	Exit has potential to lift Group ROCE by >3% with minimal impact on free cash flow

## Group ROCE

(%)

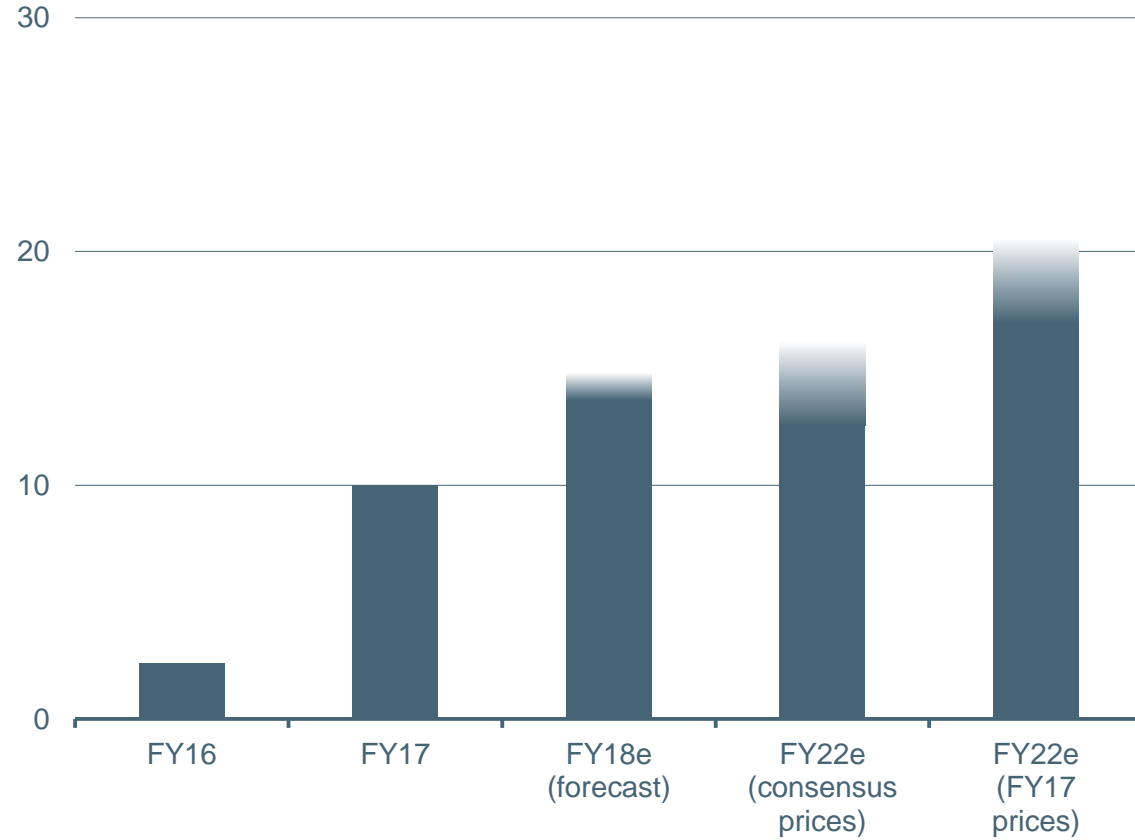


# Value and returns are at the centre of everything we do

Delivery of our plans will further improve value and returns

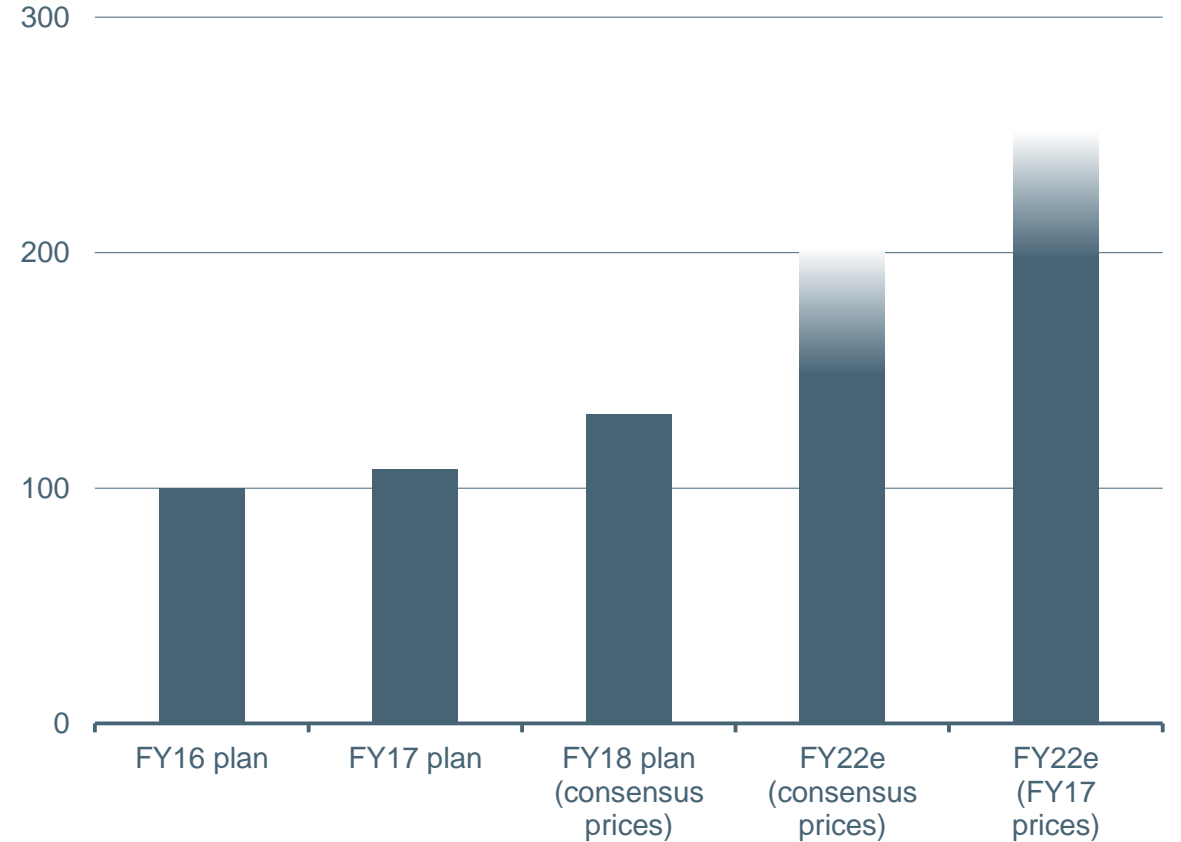
## Returns

(ROCE<sup>2</sup>, nominal %)



## Base value<sup>4,5</sup>

(Index, FY16=100)



# Key messages

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**Net debt in target range**  
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**BHP**

# Footnotes

1. Disciplined supply: Reflects lower levels of investment across the industry.
2. ROCE: Represents annualised attributable profit after tax excluding exceptional items and net finance costs (after tax) divided by average capital employed. Capital employed is net assets before net debt. Presentation of future Underlying Return on Capital Employed (ROCE) does not constitute guidance and represents outcomes based on differing price and other scenarios.
3. FY22 ROCE: At FY17 average realised prices.
4. Base value: Reflects the planning forecasts at the time before the addition of upside opportunities.
5. Base value: FY16 plan represents base value as presented on 10 May 2016 (valuation date 1 July 2016; prices reflect either FY17 average realised prices or 2016 analyst consensus price forecasts). FY17 plan represents base value as presented on 16 May 2017 (valuation date 1 July 2017; prices reflect either FY17 average realised prices or 2017 analyst consensus price forecasts). FY18 plan represents base value as presented on 15 May 2018 (valuation date 1 July 2018; prices reflect either FY17 average realised prices or 2018 analyst consensus price forecasts).
6. Unit cost reduction: Copper equivalent unit costs between FY15 and FY17. Copper equivalent production based on FY17 average realised prices.
7. Average returns: Returns at 2016 analyst consensus price forecasts; ungeared, post-tax, nominal return.
8. 40% value uplift: Represents total potential increase in base value from the addition of upside opportunities. Values at 2018 analyst consensus price forecasts; valuation date 1 July 2018; BHP share.
9. Average returns: Returns at 2018 analyst consensus price forecasts; ungeared, post-tax, nominal return.
10. Petroleum exploration NPV: Unrisked values at BHP long-term price forecasts.
11. Medium term unit cost guidance: Based on an exchange rate of AUD/USD 0.75 and USD/CLP 663. Unit costs are in nominal terms.
12. Risk: Risk profile is based on a BHP assessment of each project against defined quantified and non-quantified risk metrics rated out of 5; 5 represents more risk.
13. Timing: Represents potential first production.
14. Jansen Stage 1: IRR is ~14% excluding the remaining investment for completion of the shafts and installation of essential service infrastructure and utilities.
15. Copper exploration: Based on industry exploration costs and BHP analysis; considers discoveries with an identified resource  $\geq 1$  Mt of contained copper.
16. IOCG: Iron ore, copper and gold poly-metallic ore body.
17. Onshore US: Refers to CY18.