



Progress towards FID and Main Construction



6 July 2021

ASX:BCI

www.bciminerals.com.au

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#### Summary Information Only; Material Assumptions Continue to Apply

This document contains a summary of information about BCI and the Mardie Project's feasibility study that is current as at the date of this document unless otherwise stated, the information in this document is general in nature and does not contain all the information which a prospective investor may require in evaluating a possible investment in BCI or that would be required in a prospectus or a product disclosure statement prepared in accordance with the *Corporations Act 2001* (Cth) ("Corporations Act") or the securities laws of any other jurisdiction. It should be read solely in conjunction with the information provided to ASX. For further information regarding BCI's feasibility study and subsequent optimisation results, recipients should refer to BCI's ASX announcement titled "Feasibility Study Confirms World Class Opportunity" dated 1 July 2020 and "Mardie Optimisation Results: Increased Production and Improved Economics" dated 21 April 2021. BCI confirms that all material assumptions and technical parameters that underpin the production targets and forecast financial information in those announcements continue to apply (as applicable) and have not materially changed.

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#### JORC Code - Mardie Salt and SOP Project

The Mardie Project aims to produce salt and SOP from a seawater resource, which is abundant, inexhaustible, readily accessible and has a known and consistent chemical composition. The Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves 2012 Edition ("JORC Code") does not apply to a project of this nature and, accordingly, JORC Ore Reserves and Mineral Resources are not reported.

#### JORC Code - Iron Valley

Reference should be made to BCI announcement dated 20 October 2020 "Iron Valley Mineral Resources and Ore Reserves". BCI confirms it is not aware of any new information or data that materially affects the information included and all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed.

#### Risks

An investment in BCI is subject to investment and other known and unknown risks, some of which are beyond the control of BCI.

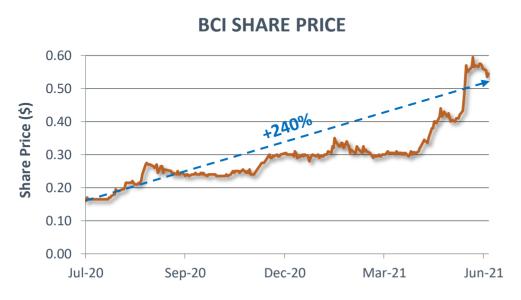
#### Acceptance

By attending an investor presentation or briefing, or accepting, accessing or viewing this document you acknowledge and agree to the "Important Notices" as set out above.

### **BCI Overview**







#### **BCI PERFORMANCE RELATIVE TO PEERS**

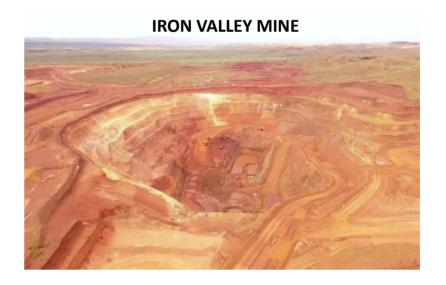


# **Iron Valley Mine**

### Strong royalty payments to BCI

- Quarterly royalty earnings from operating agreement with Mineral Resources Ltd (MIN)
- 82Mt Reserves<sup>1</sup>; Potential mine life of ~10 years
- Since first production in 2014:
  - BCI received revenue: \$400M
  - BCI received EBITDA: \$110M
  - Average 6.5Mtpa shipped
  - 55% lump ore; 59% Fe average
- Record BCI EBITDA in FY21
  - Q3: \$20.2M
  - Q1-Q3: \$37.3M
- Strong earnings potential at current prices and production; 40% rebate to MRL now ended





#### KEY IRON VALLEY PARAMETERS DETERMINING EBITDA TO BCI<sup>2,3</sup>

ANNUAL EBITDA (A\$M)		Iron Ore Price (CFR 62% Fe, US\$/dmt)					
		75	100	125	150	175	200
Tonnes Shipped (Mt, wet)	6.0	8	23	50	77	104	130
	6.5	8	25	54	83	112	141
	7.0	9	27	58	90	121	152
	7.5	10	29	63	96	129	163
	8.0	10	31	67	102	138	174

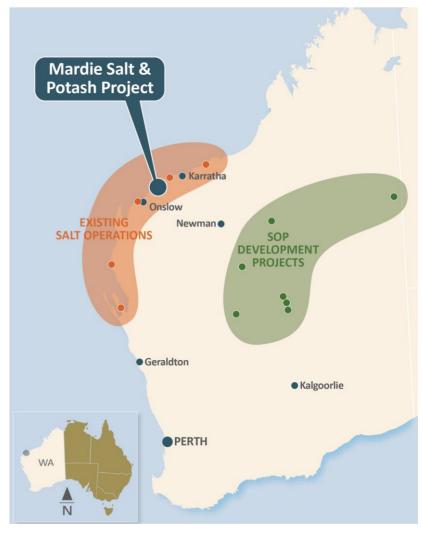
# Australian Salt & SOP<sup>1</sup> Landscape



### Mardie: ideal location to produce high-purity salt and SOP

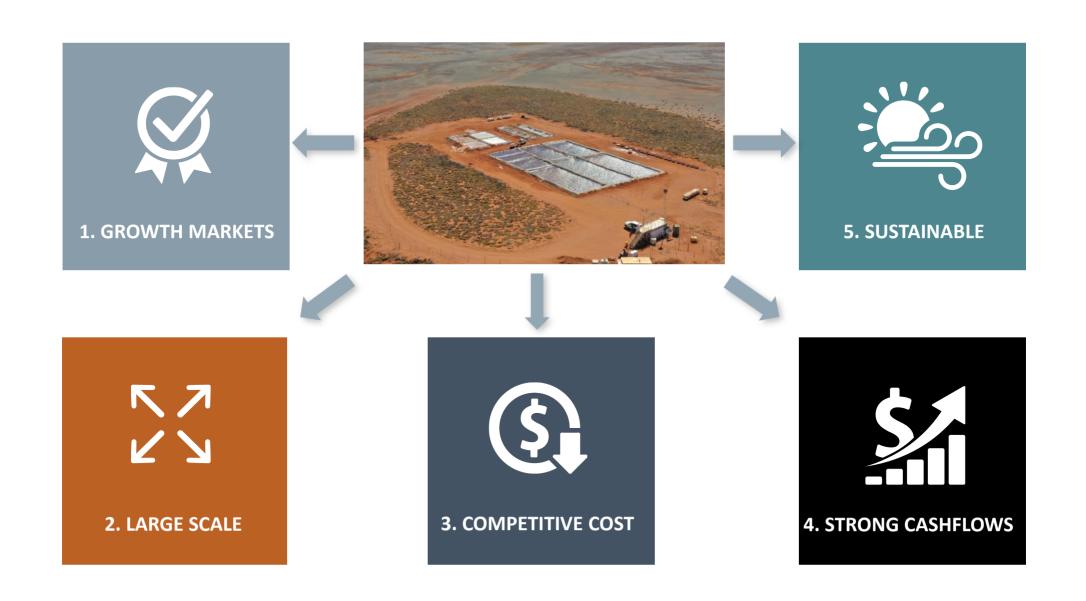
- Pilbara has an ideal climate to produce high purity salt
  - High temperature, high wind, low rainfall, low humidity
  - Proven region for production of high-quality consistent salt
- Five large WA Solar Salt Operations (12-13Mtpa)
  - Controlled by Rio Tinto and Mitsui
  - Operating for up to 50 years
  - No new large Australian salt project in 20 years
- No current SOP production in Australia
  - Other development projects all based on inland lake brines and >800km road transport to third party ports
- Mardie Salt & Potash Project
  - Only Australian project with commercial salt and SOP from seawater

#### **WESTERN AUSTRALIA – SALT AND SOP PROJECTS**



# **Mardie – Key Characteristics**

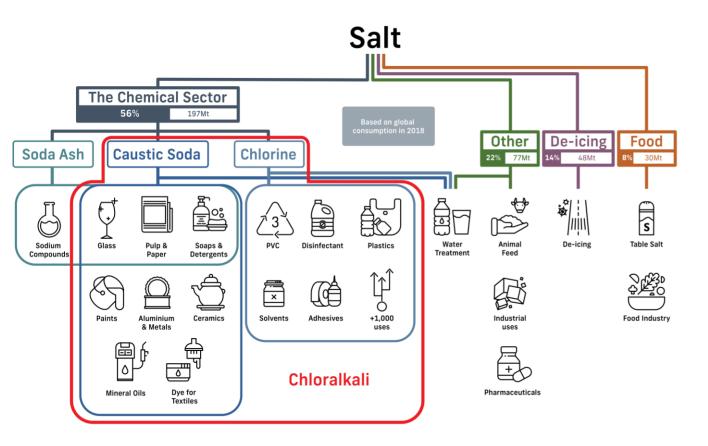




## **Salt Demand Closely Correlated with GDP**



Salt's extensive range of end uses covering all key sectors of the economy



- 350Mtpa global market
- >10,000 direct and indirect uses across many market segments
- Strong correlation (r=0.97) between salt demand and Asian GDP

# Asia Salt Consumption vs Asia GDP (2010-2020)

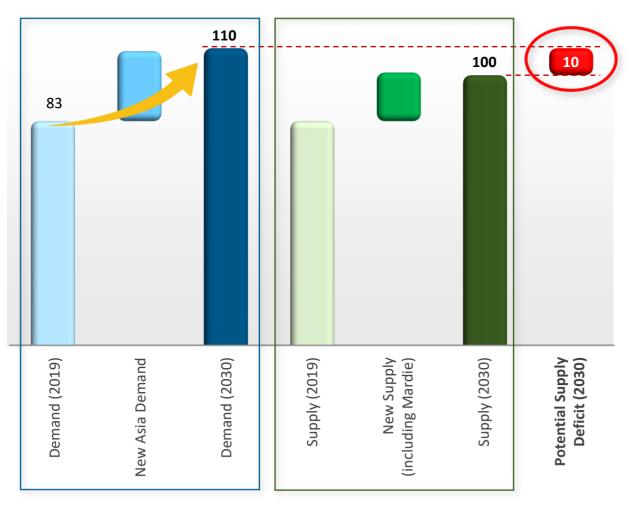


### **Positive Salt Market Outlook**



### Strong demand growth in Asia and insufficient new supply

#### CONTESTABLE ASIAN MARKET<sup>1</sup> DEMAND/SUPPLY; 2019-2030 (Mt)



- Mardie's contestable market in Asia currently ~83Mtpa
- 30% demand growth forecast over next decade<sup>1,2</sup>
- Insufficient new salt projects resulting in potential ~10Mtpa supply deficit<sup>3</sup> (after including Mardie production)

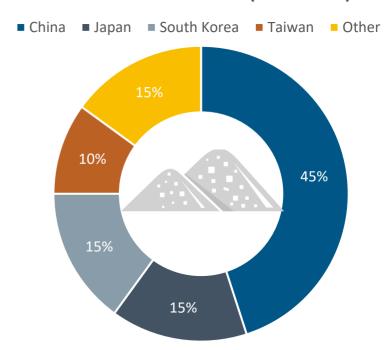
# **Salt Market Strategy**



### Strong customer interest - MOUs to be converted to offtake contracts

- Typically 2-year contracts and price settlements with individual customers – no official published benchmark
- 20-year pricing from ~US\$35/t to ~US\$75/t delivered in Asia
- BCI has strong engagement with >20 high quality Asian endusers and traders to develop future offtake support
- 15 non-binding MOUs signed across target markets covering
   >100% of first 3 years' salt production
- MOUs will be converted to offtake contracts by late 2022
- Mardie salt samples tested by key customers delivered onspec results; Larger pilot scale samples to follow in 2021

#### **TARGET MARKETS SALT (5.35MTPA)**

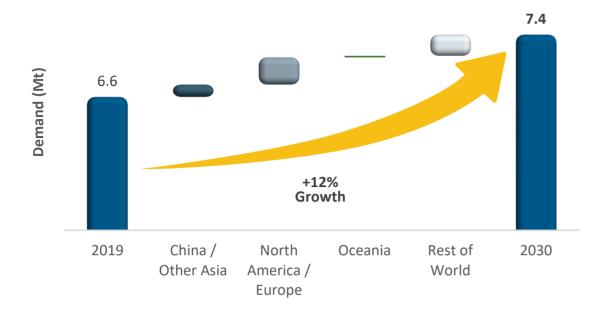


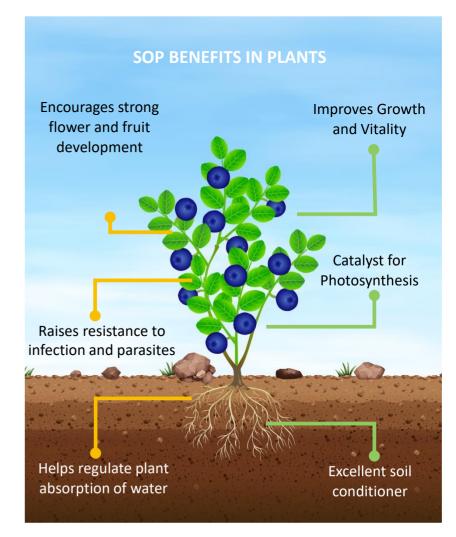
# **SOP – High Quality Potassium Fertiliser**



### Solid growth market driven by demand for high quality fruits and vegetables

- ~6.6Mtpa global market
- Premium fertiliser and source of potassium for highvalue crops and chloride intolerant crops
- Increasing population requiring increasing high quality food; reducing arable land requiring soil friendly fertiliser = strong market growth





<sup>1</sup>Argus (November 2020)

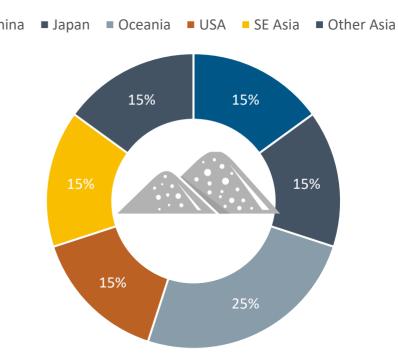
# **SOP Market Strategy**



### MOUs to be converted to offtake contracts over next 18-months

- Typical buyers include: fertiliser distributers, compound and bulk fertiliser companies
- Typically 2-5 year tonnage contracts with 1-2 year pricing published reference pricing as guide
- 10-year pricing from ~US\$450/t to ~US\$600/t delivered in Asia
- BCI engagement with multiple high quality end-users and traders to develop future offtake support
- 2 non-binding MOUs signed covering 100% of first 3 years' SOP production
- Mardie SOP samples tested by laboratories delivered on-spec results; Larger pilot scale samples to follow in 2021

### **TARGET MARKETS SOP (140KTPA)**



# **Mardie Project Design**



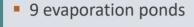
### Largest salt project in Australia

### SITE CONDITIONS



- >100km² clay soils ideal to retain water
- High net evaporation rates (~10mm/day)

#### **PRODUCTION**





- 42 salt and 20 SOP crystallisers
- Salt wash plant 5.35Mtpa >99.5% NaCl
- SOP process plant 140ktpa >52% K<sub>2</sub>O (granular)

#### PORT

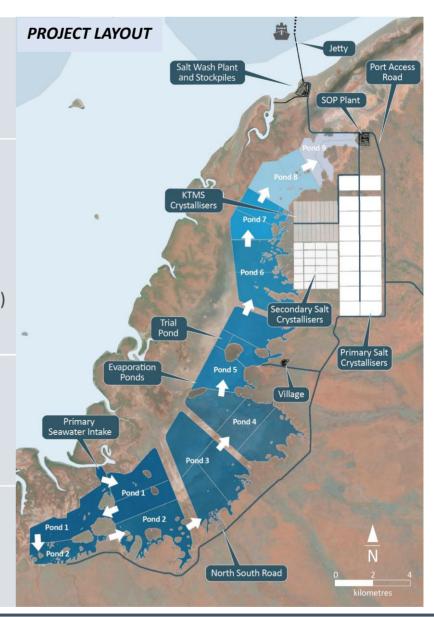


- 2.4km steel trestle jetty with conveyor
- 4.4km dredged channel

#### **SHIPPING**

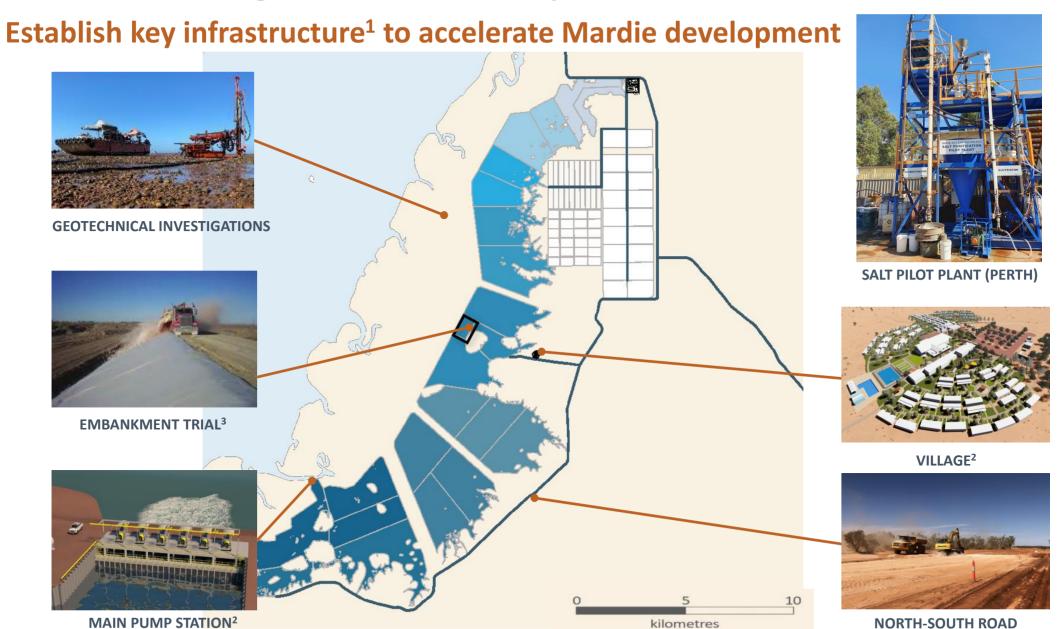


- 12,000t self-propelled transhipment vessel
- Vessels up to 160kt anchored 28km offshore



# \$60M+ Enabling Works Underway

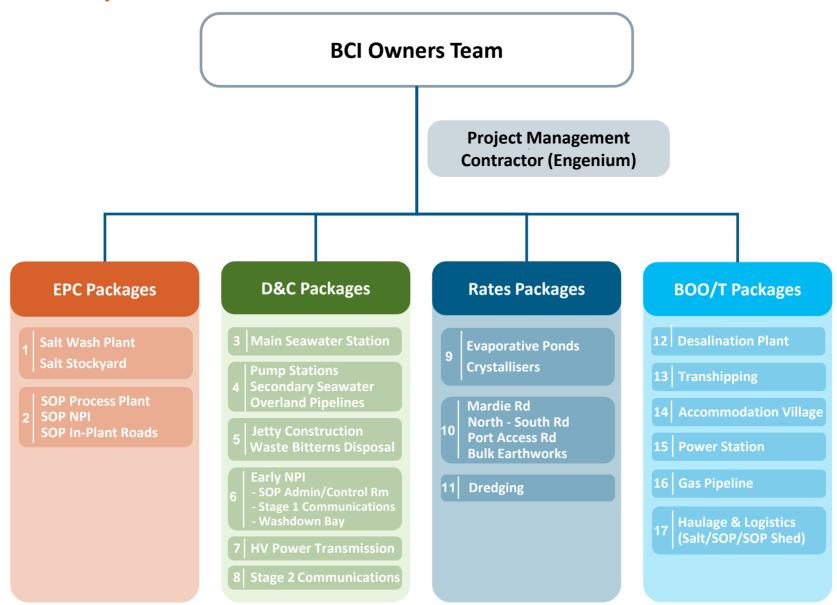




# **Delivery Model**



### Maximise fixed price contracts to reduce cost overrun risk



# **Positive Stakeholder & Approval Progress**



### Native title agreements in place; Approvals and tenure on track

#### **GOVERNMENT**



- Major Project Status one of 20 in Australia
- NAIF loan of \$450M approved largest in WA

#### **ENVIRONMENT**



- Expect EPA positive referral to WA Environmental Minister Jul-21
- Renewable energy and carbon neutral strategy being finalised

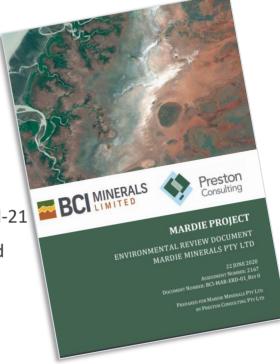
#### **COMMUNITIES**



TENURE



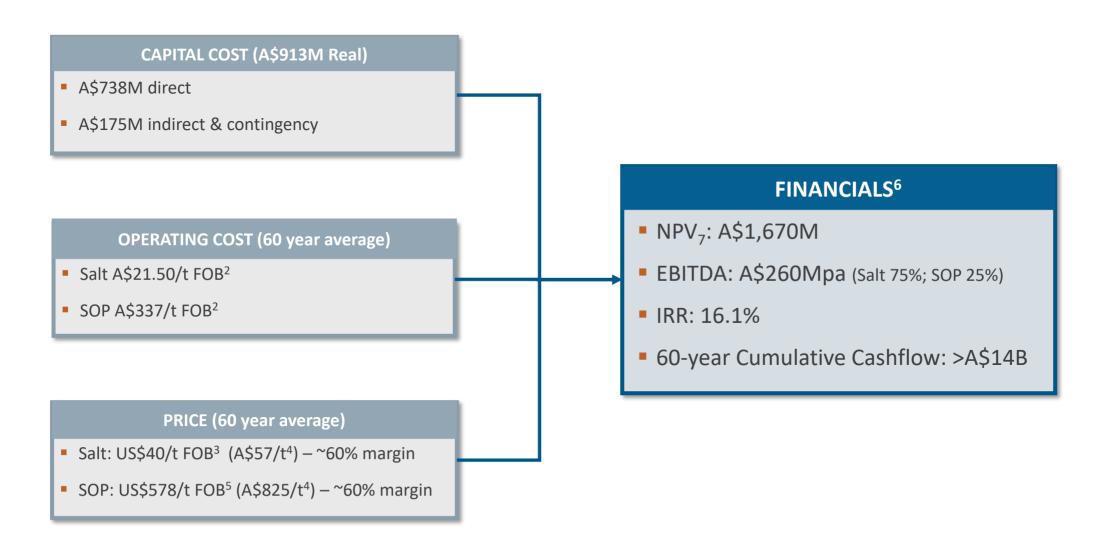
- Strong relationship with Traditional Owner groups
- Key Native Title agreements in place
- Karratha office established with focus on local engagement
- Land access: pastoralist complete; gas pipeline owners progressing
- Port leases with Pilbara Ports Authority (PPA) progressing documentation and land taking



# **Strong Financial Metrics**



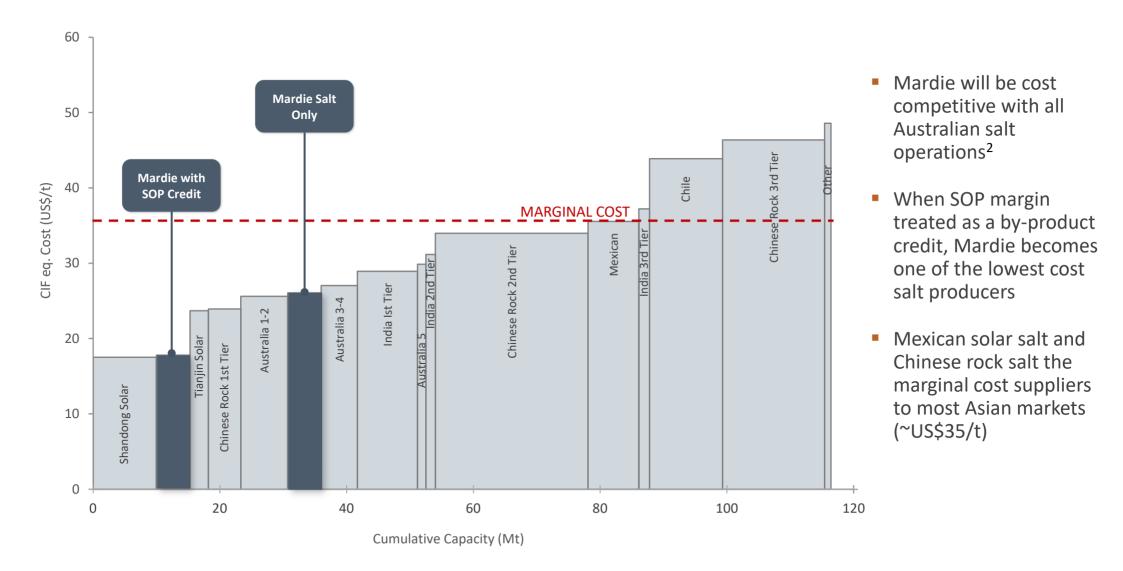
Strong financial metrics and annuity-style cash flow over at least 60 years<sup>1</sup>



### Salt Cost Curve – Contestable Market



### Mardie will be a low-cost supplier of salt into contestable<sup>1</sup> Asian market



# **Funding Strategy Advanced**



### NAIF loan approved; positive engagement with banks

# Funding Requirement

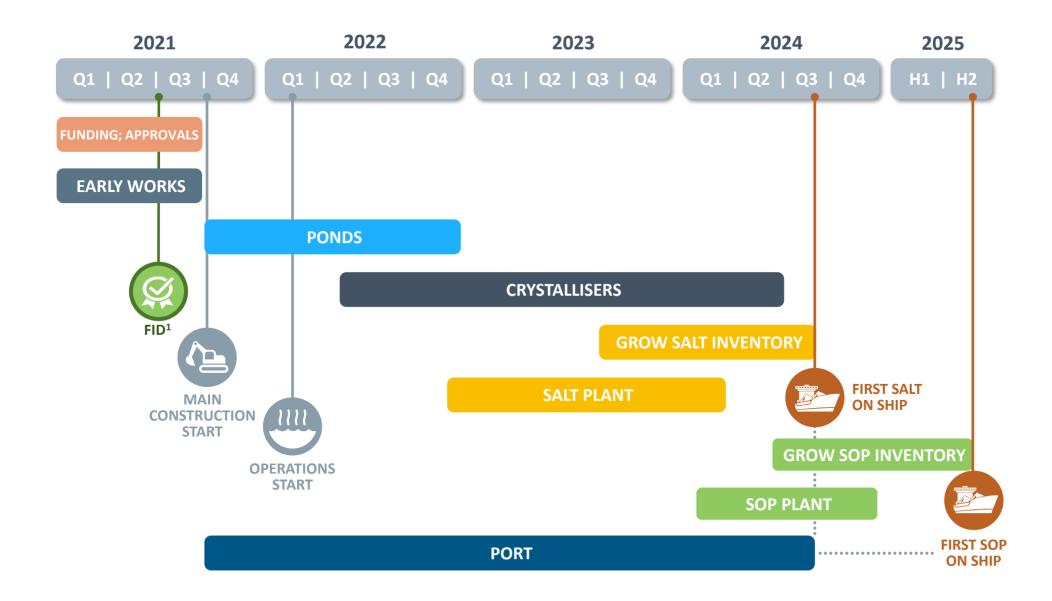
- NAIF<sup>2</sup>: Positive Investment Decision for \$450M loan over 15 years
- Banks/Other:
   Positive progress
   with Australian and international banks,
   and other lenders



- Target minimum \$180M<sup>5</sup> from existing cash & Iron Valley earnings during construction period
- Target maximum \$300M from new capital over 18 months from equity and corporate facilities

# **Project Schedule**





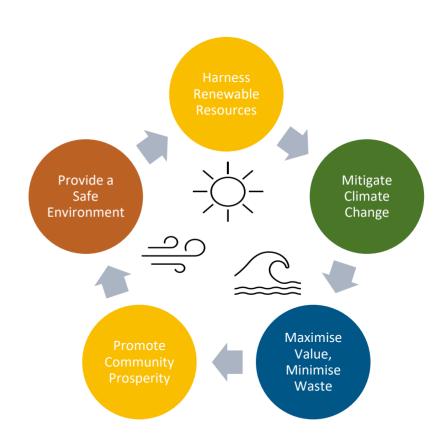
<sup>1</sup>Final Investment Decision 19

# **Sustainability Focus**



### Inexhaustible resources, natural energy and waste minimization

- 100+ year project life
- Seawater feedstock; no resource depletion
- Zero landscape scarring no mine pits, waste dumps or large-scale dewatering
- 99% of energy derived from solar and wind
- Strategy<sup>1</sup> to convert remaining 1% of energy requirement to >70% renewables within 5 years and net zero carbon within 10 years
- Australian first to produce SOP fertilizer from seawater using waste from salt circuit
- Additional future by-product potential from waste



### **Stakeholder Benefits**



### A multigenerational project benefiting multiple stakeholders

# BENEFITS TO WA & AUSTRALIA<sup>1</sup>

- Corporate taxes: >\$8Bn
- State royalties: >\$800M
- Native title payments >\$200M
- Gross Regional Product estimate: >\$2.7Bn<sup>2</sup>
- New port facility allows 3<sup>rd</sup> party access (e.g. iron ore)



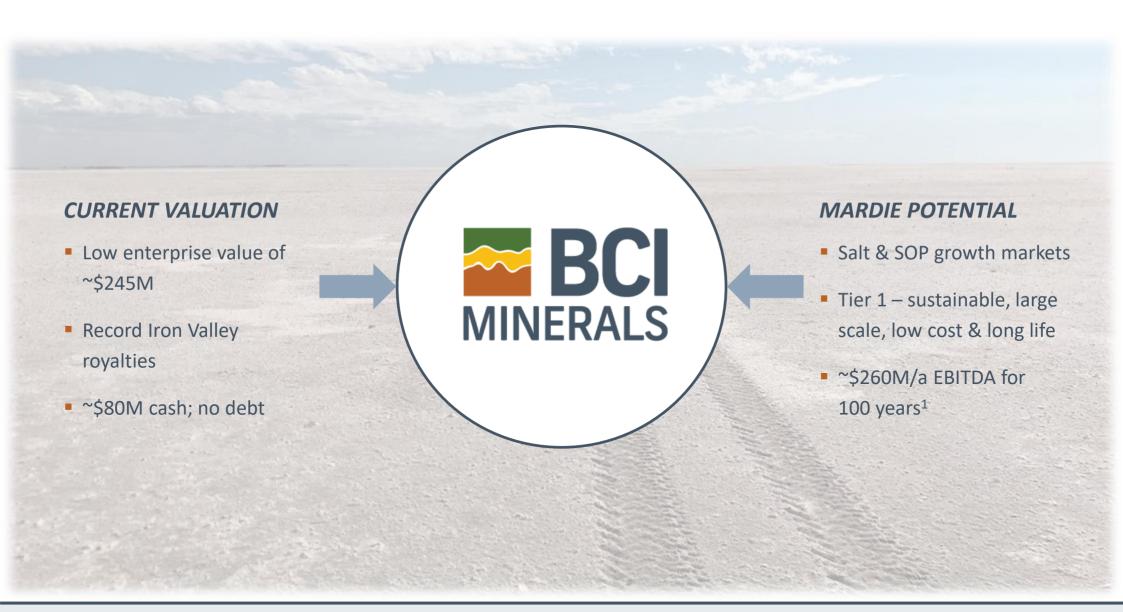
#### **COMMUNITY & HERITAGE**

- Established Karratha office
- 500 construction jobs and 220 ongoing operating jobs
- Prioritised local and indigenous contracting
- Ongoing free and prior heritage consent principle prior to ground disturbance

# Why Invest in BCI?



Strong Iron Valley earnings and significant Mardie upside potential



### **BCI Board of Directors**



Brian O'Donnell
NON-EXECUTIVE CHAIRMAN



- Banking and investment background
- Director, Finance and Investments -Australian Capital Equity (ACE)
- Numerous current and previous board positions on ASX-listed and private companies

Alwyn Vorster
MANAGING DIRECTOR



- Geology, Mining and MBA degrees
- Kumba; Rio Tinto; Iron Ore Holdings
- Geology; Mining; Marketing, Business Development and various CEO roles

Michael Blakiston
NON-EXECUTIVE DIRECTOR



- Legal and mining business background
- Partner in Gilbert + Tobin's Energy + Resources group
- Chair BCI Audit & Risk Cmte and Chair BCI Equity Cmte

Jennifer Bloom
NON-EXECUTIVE DIRECTOR



- Governance, approvals and business background
- Senior positions in both the private and public sector
- Chair of BCI Rem & Nom Cmte

Richard Court
NON-EXECUTIVE DIRECTOR



- Commercial & Political background
- Former Ambassador to Japan; Premier and Treasurer of Western Australia
- Former Chair of GRD Minproc, Chair of Iron Ore Holdings, Chair of National Hire

Garret Dixon
NON-EXECUTIVE DIRECTOR



- Civil engineering background
- Senior contracting roles (HWE; Mitchell Corp; Watpac - NED)
- Executive Vice Pres Alcoa Corp
- Chair of BCI Project Review Cmte

Chris Salisbury
NON-EXECUTIVE DIRECTOR



- Numerous top level operational and strategic roles in Rio Tinto (30-years)
- Rio Tinto Chief Executive Iron Ore including responsibility for Rio's salt business
- Chair of BCI Sustainability Cmte

Susan Park
COMPANY SECRETARY



- Commerce and accounting background
- 25 years experience in the corporate finance industry
- Extensive experience in Company Secretarial roles

#### **ADVISORS:**

**Shaun Triner – Project Review Committee** 

 Ex Rio Tinto Dampier Salt Ltd – 25+ years salt operational and marketing experience

# **BCI Executive Team / Key Personnel**



Alwyn Vorster
MANAGING DIRECTOR



- Geology, Mining and MBA degrees
- Kumba; Rio Tinto; Iron Ore Holdings
- Geology; Mining; Marketing; Feasibilities; Corporate Development

Sam Bennett PROJECT DIRECTOR



- Civil engineering degree
- Fortescue; Roy Hill; WSP
- Construction

Stephanie Majteles
GENERAL COUNSEL



- Law degree
- Freehills; Rio Tinto
- Tenure; Approvals; Corporate

Simon Hodge
CHIEF FINANCIAL OFFICER



- Finance degree
- JP Morgan; Poynton; Quickflix
- Corporate finance; Investment banking

Jim Cooper
GENERAL MANAGER OPERATIONS



- Management Diplomas
- GM Dampier Salt (Rio Tinto); GM Hope Downs (Rio Tinto); GM Boddington (Newmont)
- Operations; Salt Marketing; Health & Safety

Angela Glover
HEAD OF CORPORATE AFFAIRS



- Metallurgy degree
- BBI Group, Atlas, Alcan Gove
- Heritage; approvals, License to Operate; Government relations
- Based in Karratha

Colyn Louw
HEAD OF PEOPLE AND SERVICES



- Commerce and MBA degrees
- BHP; Roy Hill; Gold Fields
- People, health & safety through studies, construction and operations

INVESTOR RELATIONS TEAM:

Brad Milne; Rebecca Thompson; Simon Tonkin

#### **DEVELOPMENT & OPERATIONS TEAMS:**

Mark Forward (GM Landside)

• Ex Rio Tinto - Project Manager Processing and Infra.

Rob Ernst Jr. (GM Marine)

Ex BBI Group – Manager of Port and Marine

Mary Walker (Contracts Manager)

Ex Tier 1 contractor on \$1bn PPP project

**Dale Ettridge (Manager Ops Readiness)** 

Ex Rio Dampier Salt
 – Mine Mgr; Ops Readiness Mgr
 Alan Perry – (Manager Projects)

Ex Rio Dampier Salt – Regional Mine Manager

#### **MARKETING TEAM:**

Matthew Gurr (Manager)

Ex Rio Tinto - Korea Manager

Takashi Kawada (East Asia – Singapore based)

Ex Dampier Salt - GM Marketing

**Kevin Yu (China – Beijing based)** 

Ex Cliffs - China Country Manager; Rio Tinto

**Trevor Larbey – Logistics** 

Ex Rio Tinto Marine – 35 years shipping

