JINDALEE
Resources Limited

# Annual General Meeting 2020



JINDALEE
Resources Limited

## Corporate

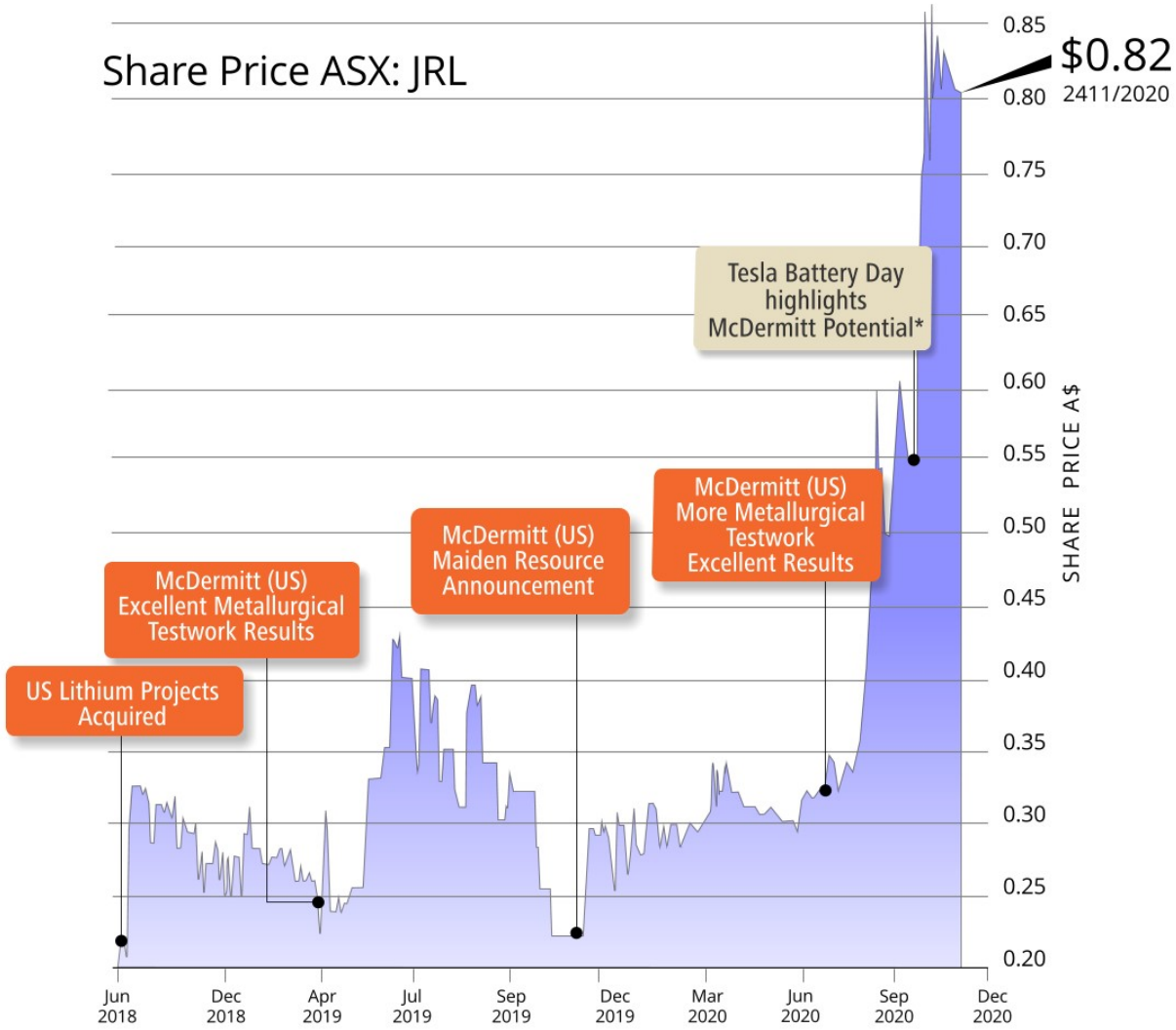
| | |
|---|---|
| Share Capital (ASX: JRL) | 44.7M |
| Share Price (24/11/2020) | A$0.82 |
| Unlisted Options (40c,50c, $1.00) | 7.4M |
| Market Cap (24/11/2020)) | A$36.6M |
| Cash/Liquids (30/09/2020) | A$4.5M |

## Major Shareholders

| | |
|---|---|
| L G Dudfield | 30.6% |
| Kale Capital Corporation Pty Ltd | 6.7% |
| Teck Australia Pty Ltd | 4.8% |
| Kevrex Pty Ltd | 4.5% |
| Pillage Investments Pty Ltd | 3.5% |

## Board/Management

| | |
|---|---|
| Chairman | Justin Mannolini |
| Executive Director | Lindsay Dudfield |
| Executive Director & Company Secretary | Trish Farr |
| Chief Executive Officer | Karen Wellman |




A public company with the primary objective of creating wealth for shareholders through the discovery of world-class mineral deposits

*Refer ASX release 25/09/2020 ,Tesla Battery Day highlights McDermitt Project Potential

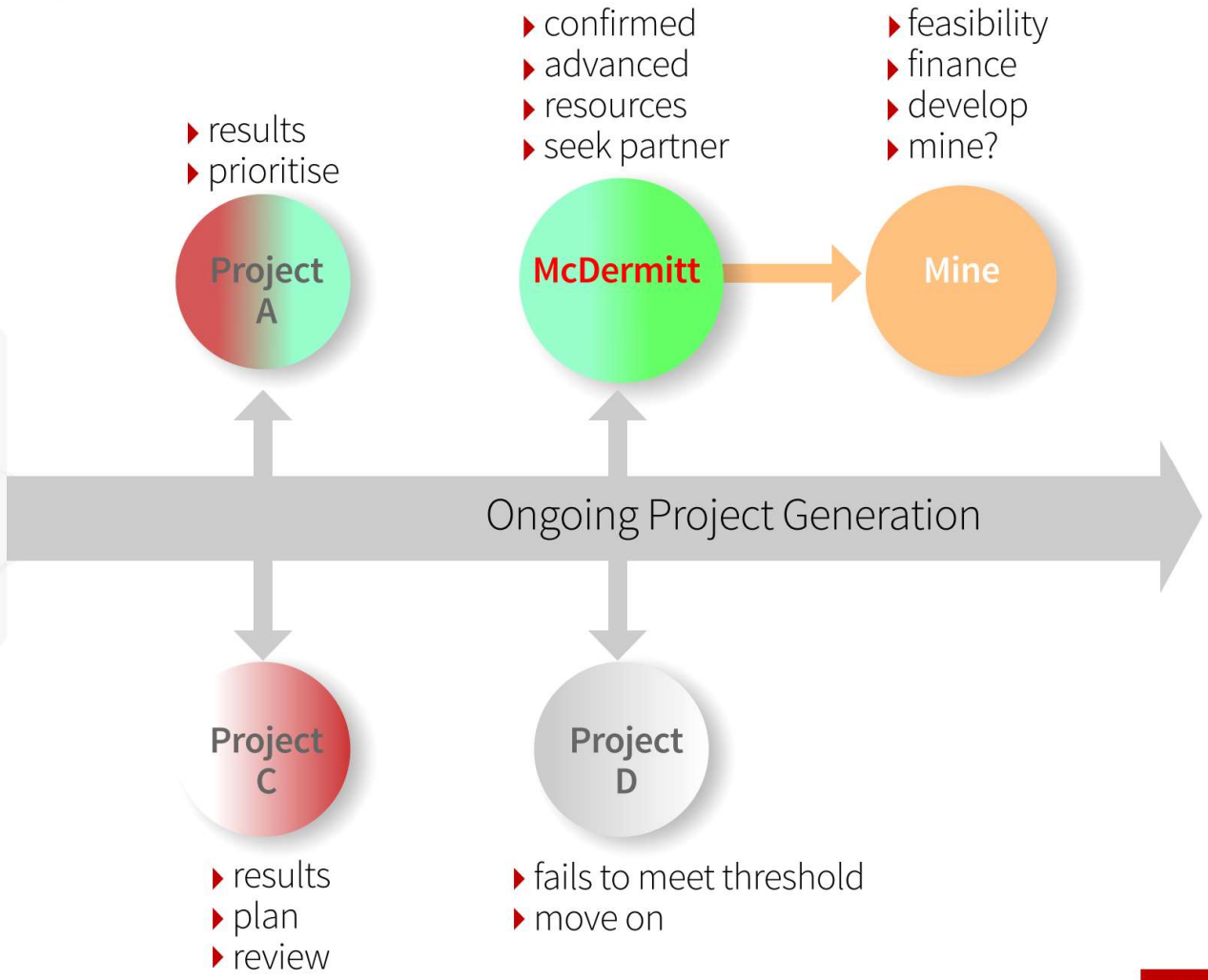
Share Price as at 24/11/2020

# **Jindalee** Project Generator Model

- Acquire prospective ground
- Low cost - high value exploration
- Innovative implementation
- Review, update, focus, target

- Build rather than purchase
- Fund initial value add
- Seek partners to share development risk

- Tight JRL capital structure maximises leverage for shareholders



# **Strategic Project Exploration** Australia and US







Strong, diverse portfolio of 100% JRL owned projects

Potential for Gold, Nickel, Lithium, Magnesite and Iron Ore

Strategic investments in Uranium, Nickel, Gold & Copper

Substantial McDermitt Lithium project

Inferred mineral resource with huge upside

Strong Government support for large Lithium deposits

Tesla's localisation of cathode production in US highlights strategic value of McDermitt

Refer ASX release 25/09/2020, "Tesla Battery Day highlights McDermitt Project Potential"
Refer ASX release 13/11/2019 "Material increase to exploration target confirms McDermitt as one of the largest lithium deposits in the US" & 19/11/2019 "Maiden Lithium Resource at McDermitt"

JINDALEE Resources Limited

# **Widgiemooltha** Project WA

1,000km² 100% Jindalee owned holding in highly fertile district

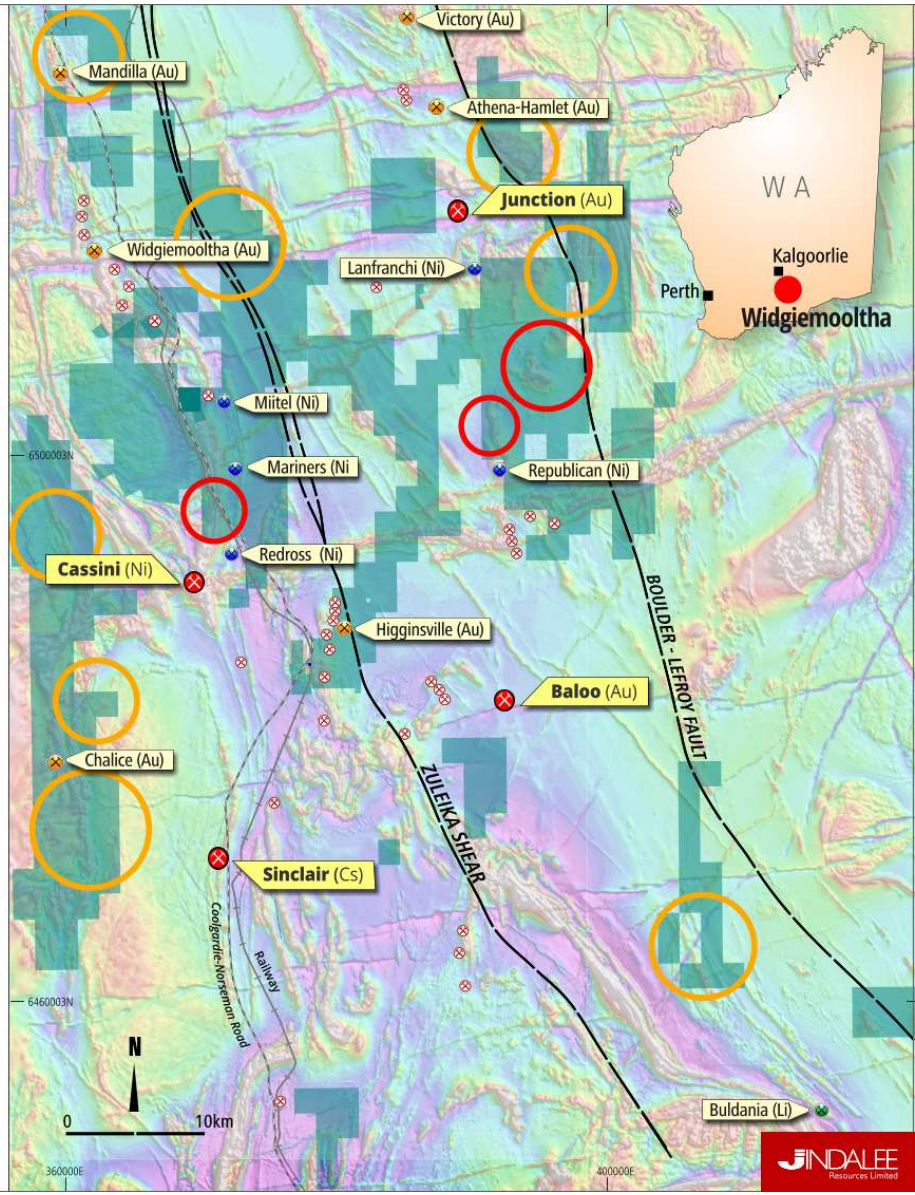
Excellent infrastructure supporting nearby Gold, Nickel, Lithium and Caesium mines

Recent discoveries confirm significant potential

| | |
|---|---|
| **Invincible** (Au) | Gold Fields Limited |
| **Baloo** (Au) | Kakora Resources Ltd |
| **Mandilla** (Au) | Anglo Australian Resources |
| **Cassini** (Ni) | Mincor Resources NL |
| **Sinclair Zone** (Cs) | Essential Metals Ltd |

Program of works for testing Gold targets approved

Program of works to test Nickel targets being prepared




| Target Generation (ongoing) | Major Deposits & Mines |
|---|---|
| Gold | Gold |
| Nickel | Nickel |
| Lithium | Lithium/caesium |
| | Historic gold |
| | Jindalee tenement* |

*Note that some portions of Jindalee tenements are excised by pre-existing leases

ASX:JRL

# **Jindalee** US Lithium

Two lithium projects in the US

**McDermitt** - Oregon. Jindalee's US flagship project
Priority resource development

**Clayton North** - Nevada. Pre-exploration planning




## McDermitt:

Maiden Inferred Mineral Resource: **155 Mt @ 2,000 ppm Lithium** (1,750ppm Li cut-off)

One of the largest Lithium deposits in the US - 34km$^2$ (13miles$^2$) claims area

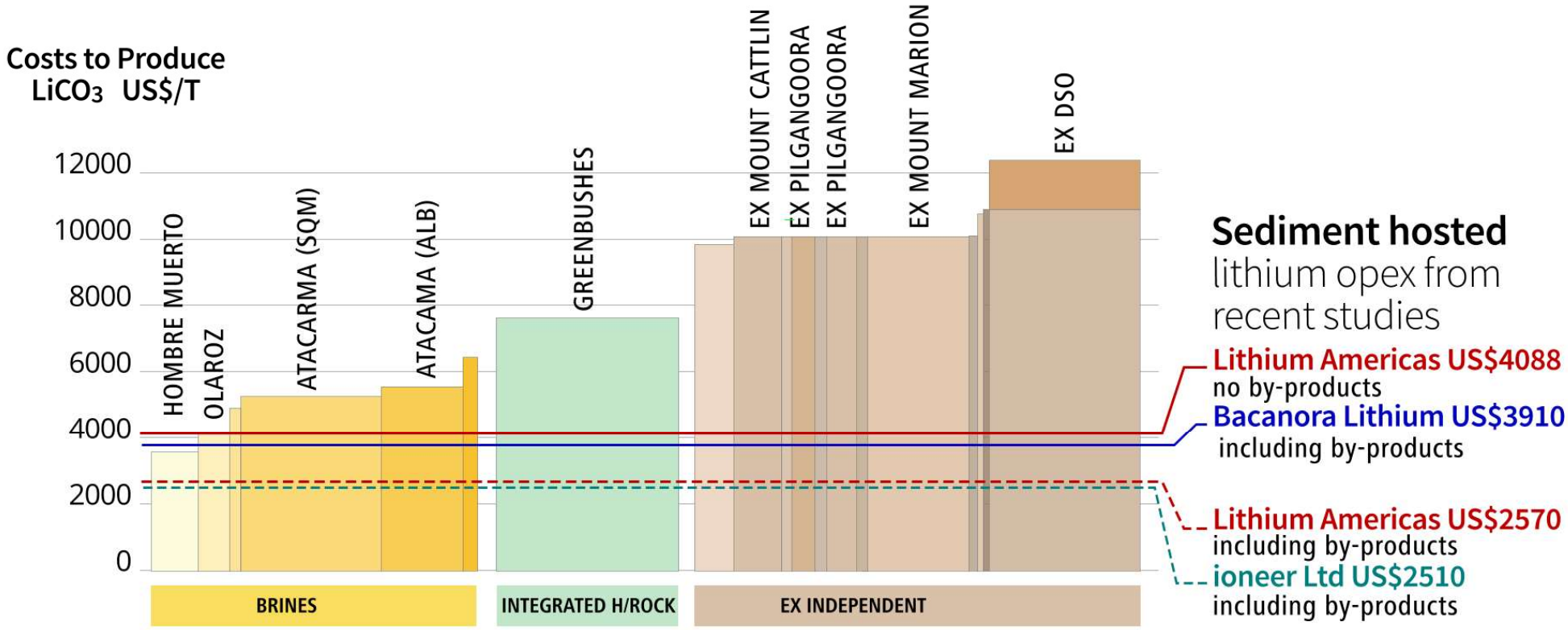
Potential for long life - low cost mining operation. Value proposition

**Development of McDermitt resource could make US self sufficient in Lithium**

Refer ASX release, 19/11/2019,"Maiden Lithium Resource at McDermitt"
Refer ASX release, 13/11/2019, "Material increase to exploration target confirms McDermitt as one of the largest lithium deposits in the US"

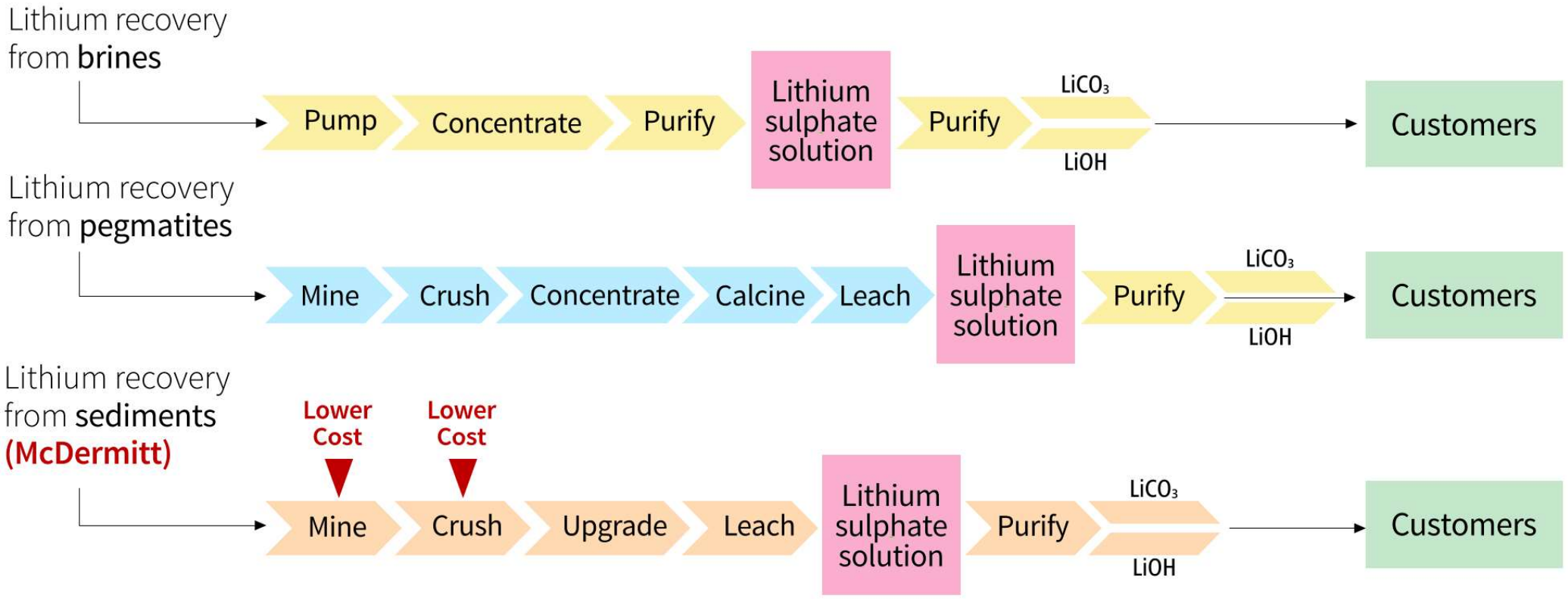
# Why Sediment Hosted Lithium Deposits

Long life, low cost sources of battery chemicals

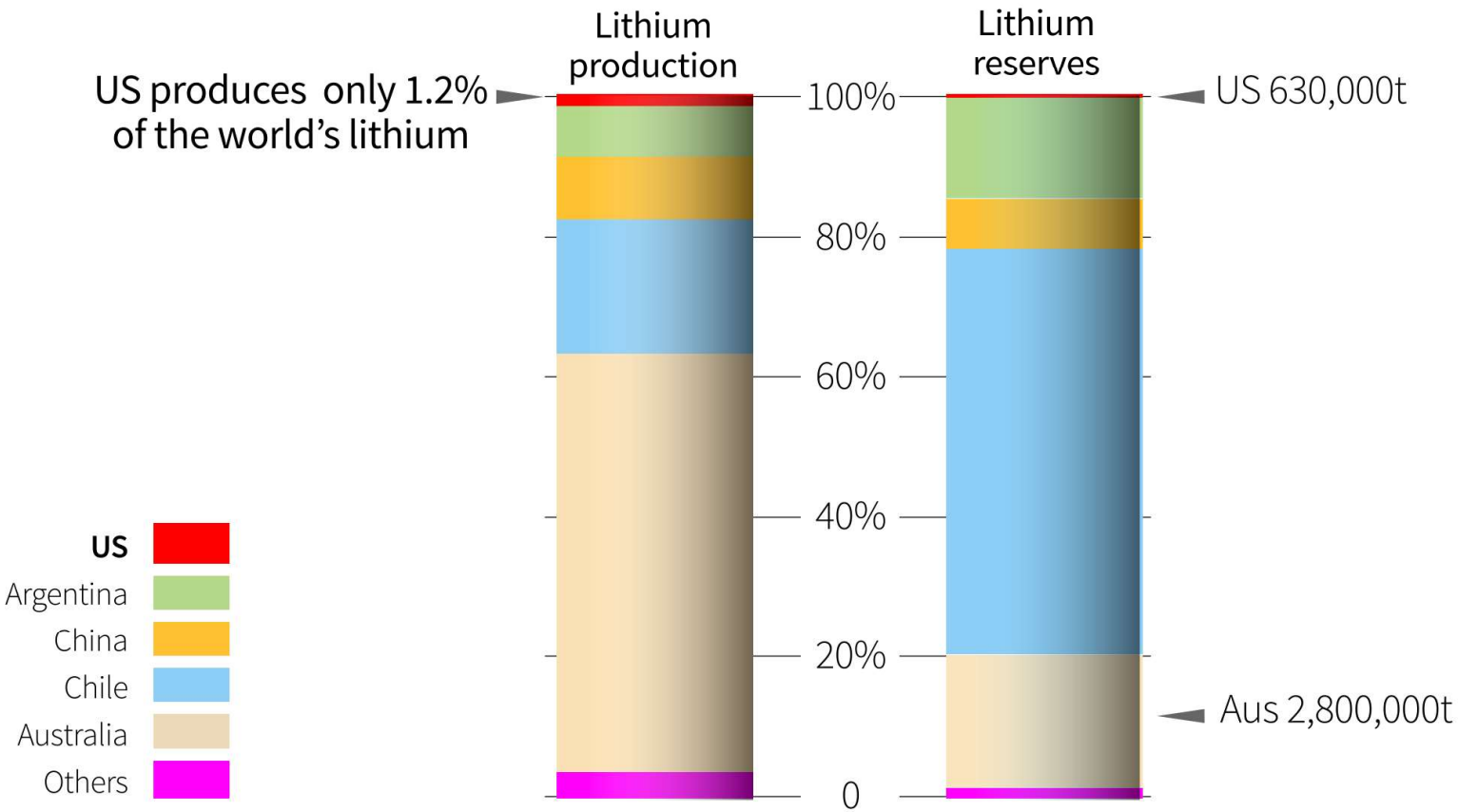



Sources: Canaccord 30/10/2018 and company reports

# **Sedimentary Deposits** short cut to lower costs



# **US reliance** on imported lithium




*Source: Bloomberg*

# Biden's election very positive for US Lithium










**Focussed attention** on reducing carbon emissions via renewables - EVs and energy storage the key drivers

Lithium demand expected to increase significantly to meet emissions targets with uptake of Li-ion batteries for EVs and energy storage

Biden has pledged **Zero Emissions** by 2050

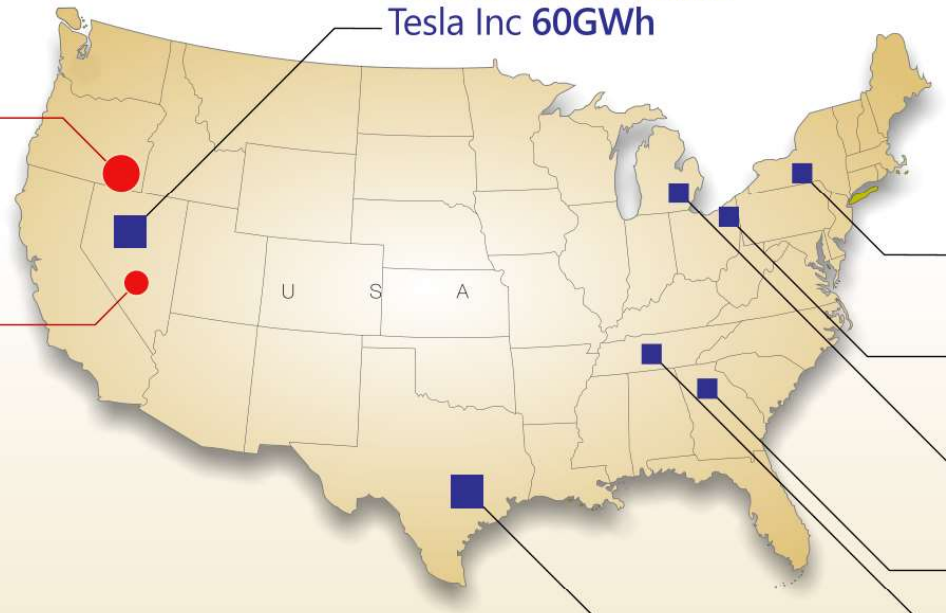
$US2 Trillion spend on **EV infrastructure** and other carbon reduction projects

Bi-partisan support for development of **US critical mineral projects** including lithium

Sources: Various media sources and US Govt announcements

JINDALEE Resources Limited

# Jindalee US Lithium Projects and Major Battery Production




**McDERMITT** Oregon
Jindalee Resources
155Mt @ 2000ppm Lithium Resource

**CLAYTON NORTH** Nevada
Jindalee Resources

**GIGAFACTORY** Nevada
Tesla Inc **60GWh**

**ENDICOTT** New York
Imperium 3 **15GWh**

**ULTIMA LORDSTOWN** Ohio
LG Chem/GM **10GWh**

**GHAFARI** Michigan
LG Chem **15GWh**

**COMMERCE** Georgia
SK Innovation **10GWh**

**SMYRNA** Tenessee
Envison AESC **5GWh**

**TERAFACTORY** Texas
Tesla Inc **150GWh**

**FARASIS 10GWh**
(Location to be confirmed)

- Jindalee Resources Lithium Project/Resource
- Planned Battery Output

ASX:JRL

# US is gearing up for New Energy Revolution...however



Terafactory Texas



Ultium Lordstown



Moss Landing Energy Storage California

US currently **imports almost all lithium** and is vulnerable to supply chain disruption

## Reaction?

US is planning for the **New Energy Revolution** with large operating/expansion & construction of new battery factories

Tesla is moving to source and refine its lithium from **local deposits**; other auto makers will follow

Large sediment hosted deposits like **McDermitt (JRL**) and Thacker Pass have the potential to make the US **self-sufficient** in lithium

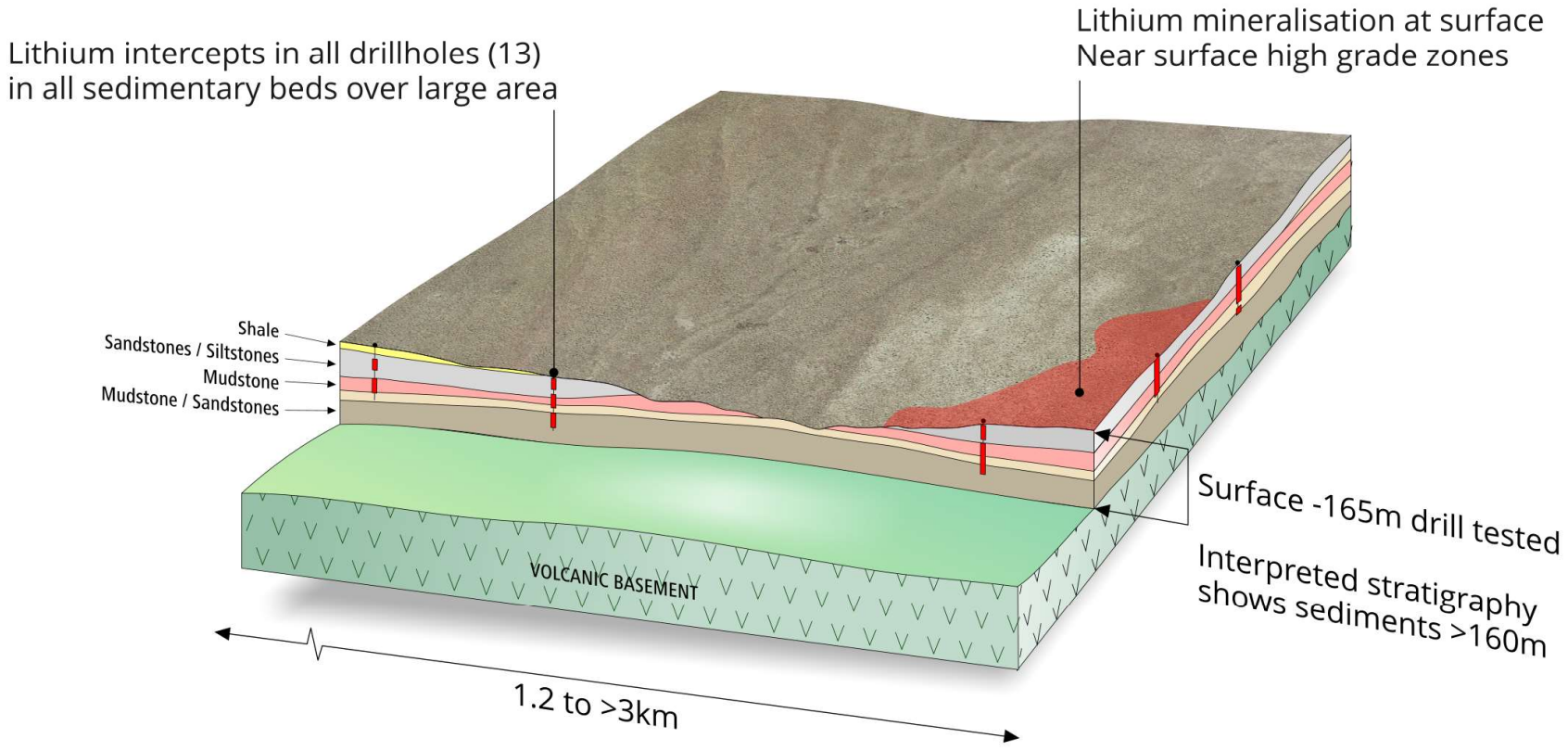
Sources: Various media sources and US Govt announcements

JINDALEE Resources Limited

# **McDermitt** Lithium bearing sediments at surface



# **McDermitt** Simplified schematic section




not to scale

# **McDermitt** Drilling confirms discovery

## Drilling confirms discovery of large Lithium deposit

13 drill holes returned excellent results

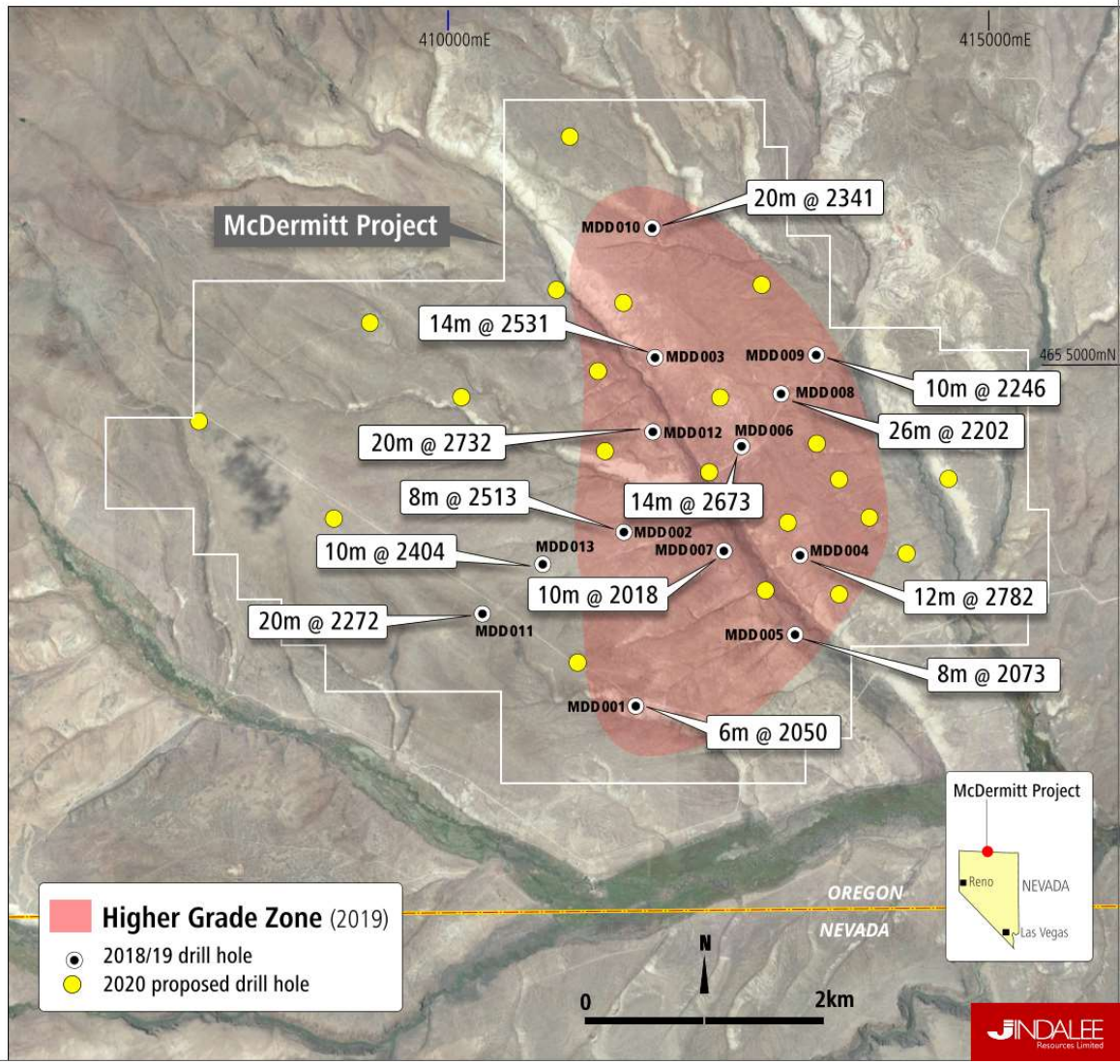
Mineralisation in every hole

Mineralisation consistent over large area

Near surface, higher-grade zone identified

21 new drill holes proposed

Refer ASX releases tabulated in Additional Information at end of presentation.



# **McDermitt** Maiden Inferred Resource

## Inferred Mineral Resource & Exploration Target Range (ETR)*

| Cut Off | Mineral Resource | | Contained LCE | ETR Lower Limit (Mt) | ETR Upper Limit (Mt) | ETR Grade Range | ETR Midpoint Contained LCE | Resource + ETR Midpoint Contained LCE |
|---|---|---|---|---|---|---|---|---|
| (ppm Li) | (Mt) | (ppm Li) | (Mt) | | | (ppm Li) | (Mt) | (Mt) |
| 1,000 | 996 | 1,420 | 7.5 | 1,200 | 3,000 | 1,200-1,600 | 15.6 | 23.1 |
| 1,500 | 328 | 1,800 | 3.1 | 370 | 800 | 1,600-2,000 | 5.6 | 8.7 |
| 1,750 | 155 | 2,000 | 1.7 | 180 | 330 | 1,800-2,200 | 2.7 | 4.4 |
| 2,000 | 64 | 2,200 | 0.8 | 75 | 120 | 2,000-2,400 | 1.4 | 2.2 |
| 2,500 | 5 | 2,590 | 0.1 | 2 | 3 | 2,400-2,800 | 0.4 | 0.5 |

(Source: JRL ASX Announcement 19/11/2019)

*Note that the potential quantity and grade of the Exploration Target is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource over the Exploration Target area and it is uncertain if further exploration will result in the estimation of additional Mineral Resources

Refer ASX release, 19/11/2019,"Maiden Lithium Resource at McDermitt"
Refer ASX release, 13/11/2019, "Material increase to exploration target confirms McDermitt as one of the largest lithium deposits in the US"

JINDALEE Resources Limited

# **Metallurgy** Excellent results

Leach recycling tests show excellent recoveries

Lithium recoveries of >95% with short residence times, using either $H_2SO_4$ or HCl

Potential for beneficiation via attrition scrubbing resulting in 55% uplift of head grade

Potential to reduce acid consumption via removal of 50% of carbonate and 90% of analcime

Significant cost savings achieved in recent tests - positive for project economics

Testwork to identify further savings underway

Refer ASX release 17/08/2020, "More encouraging metallurgical results from McDermitt"
Refer ASX release 16/06/2020, "Encouraging metallurgical test results from McDermitt"

# **McDermitt** Proposed Drilling 2020

21 proposed holes - 10 holes completed to date

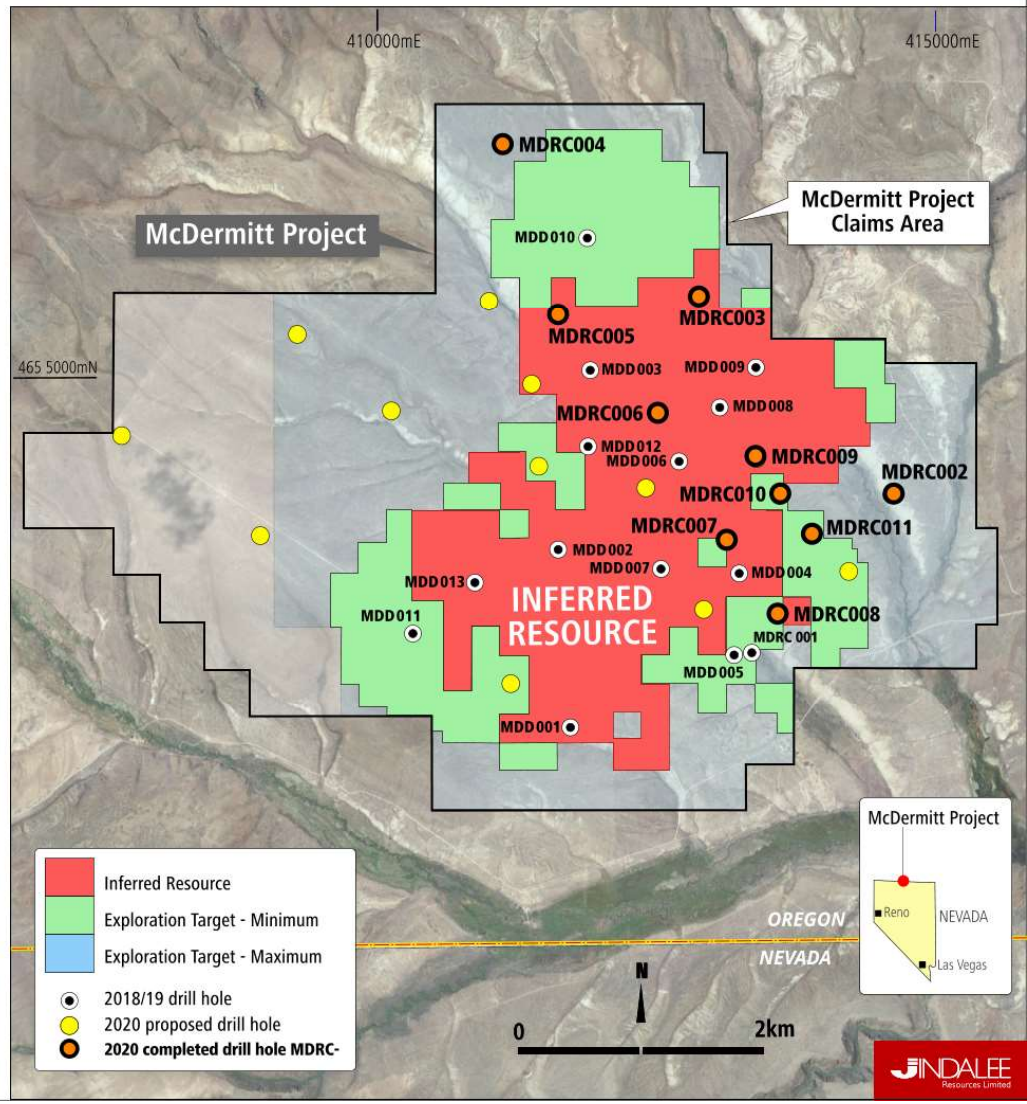
## Aim

- Upgrade current Inferred Resource to Indicated Resource

- Increase Inferred Resources

- Confirm shallow (0-100m) contiguous mineralisation (0.43% $Li_20$)

- Expand substantial ETR
  180-330 Mt @ 1800-2200 ppm Li (1,750ppm Li cut-off)

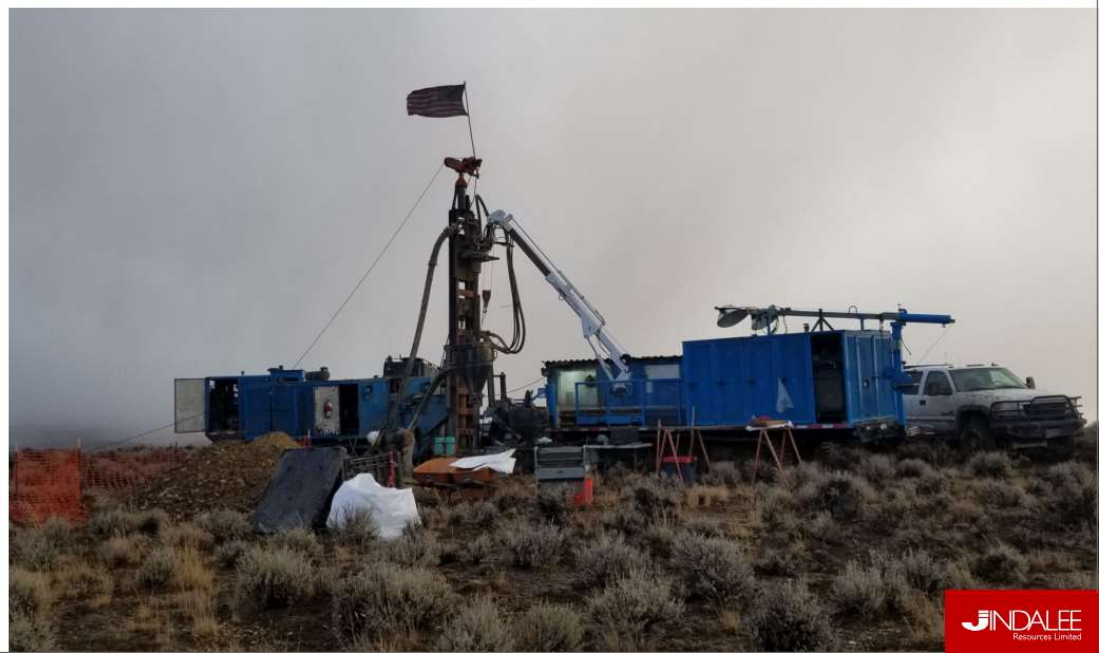



Refer ASX release 27/11/2020, "McDermitt Lithium Project - Drilling Update"
Refer ASX release 19/11/2019, "Maiden Lithium Resource at McDermitt"

# McDermitt 2020 drilling







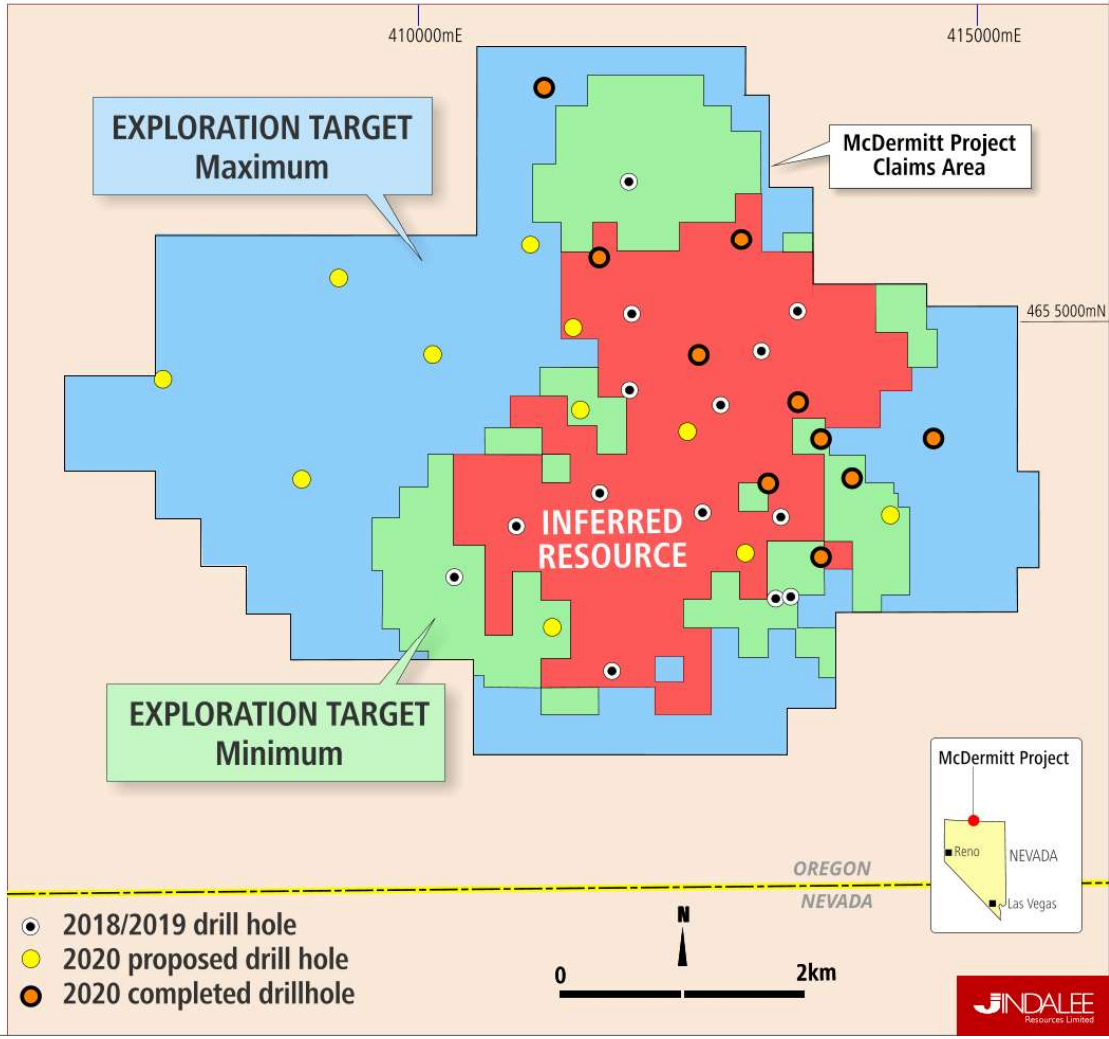
# **McDermitt** 2020 program

Infill and extensional drilling underway
- 10 holes completed to date

Additional metallurgical optimisation underway to further reduce costs

Commence permitting studies
- environmental studies for permitting planned
- water rights
- community engagement

Engagement with US investors and potential partners has commenced



# US Lithium Projects are more highly valued in North America

## Share Price Graphs YTD












# Disclaimer

This presentation has been prepared by Jindalee Resources Limited ("Jindalee or JRL") and is authorised by Lindsay Dudfield Executive Director of Jindalee. The information contained in this presentation is a professional opinion only and is given in good faith. Certain information in this presentation has been derived from third parties and though Jindalee has no reason to believe that it is not accurate, reliable or complete, it has not been independently audited or verified by Jindalee. Jindalee makes no representations or warranty as to the accuracy, reliability or completeness of information in this document and does not take responsibility for updating any information or correcting any errors or omissions which may become apparent after this presentation is released.

Any forward looking statements included in this presentation involve subjective judgement and analysis and are subject to uncertainties, risks and contingencies, many of which are outside the control of, and may be unknown to Jindalee. In particular they speak only to the date of this presentation, they assume the success of Jindalee's strategies, and they are subject to significant regulatory, business, competitive and economic uncertainties and risk. Actual future events may vary materially from the forward looking statements and the assumptions on which these are based. Recipients of this presentation are cautioned not to place undue reliance on such forward looking statements.

To the extent permitted by law, Jindalee and its officers, employees, related bodies corporate and agents disclaim all liability, direct, indirect or consequential (and whether or not arising out of the negligence, default, or lack of care of Jindalee and/or any of its agents) for any loss or damage suffered by a recipient or other persons out of, or in connection with, any use or reliance on this presentation or information. Nothing contained within this presentation should be construed as financial or investment advice. This presentation is for information purposes only. Neither this nor the information in it constitutes an offer, invitation, solicitation or recommendation in relation to the purchase or sale of Jindalee's shares in any jurisdiction. This does not constitute investment advice and has been prepared without taking into account the recipient's investment objectives, financial circumstances or particular needs and the opinions and recommendations in this presentation are not intended to represent recommendations of particular investments to particular persons. Recipients should seek professional advice when deciding if an investment is appropriate. All securities transactions involve risks, which include (among others) the risk of adverse or unanticipated market, financial or political developments.

All amounts are in A$ unless stated otherwise.

For further information contact:
**Lindsay Dudfield**
Executive Director
Jindalee Resources Limited
E: enquiry@jindalee.net
T: +61 8 9321 7550

## Competent Persons Statement

The information in this presentation that relates to exploration results, exploration targets and mineral resources for the Company's projects was first released by the Company on the dates set out under the heading "Additional Information" on this page. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements and, in the case of mineral resource estimates, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed

## Additional Information

Additional details including JORC 2012 reporting tables, where applicable, can be found in the following Jindalee Resources' ASX announcements:

- 26/11/2020. "Mc Dermitt Project - Drilling Update"
- 16/11/2020., "Drilling Commences at McDermitt Lithium Project"
- 29/10/2020, "Quarterly Activities and Cashflow Report"
- 21/10/2020, "Completion of Entitlement Offer and Notice of shortfall"
- 25/09/2020, "Tesla Battery Day highlights McDermitt Project Potential"
- 14/09/2020, "Placement of Non-Renounceable Entitlements Offer"
- 17/08/2020, "More encouraging metallurgical results from McDermitt"
- 03/08/2020, "Jindalee appoints Karen Wellman as CEO"
- 30/07/2020, "Quarterly Cashflow Report"
- 30/07/ 2020, "Quarterly Activities Report"
- 17/06/2020 "Funds raised to advance McDermitt"
- 17/06/2020, "Company Update"
- 16/06/2020, "Encouraging Metallurgical Test Results from McDermitt"
- 04/02/2020, "Jindalee expands size of McDermitt Project"
- 07/01/2020, "Re-Release of Company Update"
- 19/11/2019 "Maiden Lithium Resource at McDermitt"
- 13/11/2019 "Exploration Target confirms huge scale at McDermitt"

# Thank You

Jindalee Resources Limited
Level 2, 9 Havelock Street
West Perth WA 6005
AUSTRALIA

**www.jindalee.net**
**enquiry@jindalee.net**

ASX: JRL