

Important Information



CAUTIONARY STATEMENT

The production targets and forecast financial information referred to in the PFS & DSS are based on Proven Ore Reserves (19.7%), Probable Ore Reserves (69.8%) and Inferred Mineral Resources (10.5%). The Inferred material included in the inventory is 8.28Mt @ 1.36% Li2O & 120 ppm Ta2O5. The Inferred material has been scheduled such that less than 1Mt is mined in the first ten years, with 6.44Mt at the end of the underground mine life and 0.84Mt after year 25 for the open pit.

The Inferred material does not have a material effect on the technical and economic viability of the project.

There is a low level of geological confidence associated with inferred Mineral Resources and there is no certainty that further exploration work will result in the determination of indicated Mineral Resources or that the production target itself will be realised.

FORWARD LOOKING STATEMENTS

This Presentation contains forward-looking statements which are identified by words such as 'may', 'could', 'believes', 'estimates', 'targets', 'expects', or 'intends' and other similar words that involve risks and uncertainties. These statements are based on an assessment of present economic and operating conditions, and on a number of assumptions regarding future events and actions that, as at the date of this Presentation, are considered reasonable. Such forward-looking statements are not a guarantee of future performance and involve known and unknown risks, uncertainties, assumptions and other important factors, many of which are beyond the control of the Company, the Directors and the management. The Directors cannot and do not give any assurance that the results, performance or achievements expressed or implied by the forward-looking statements contained in this Presentation will actually occur and investors are cautioned not to place undue reliance on these forward-looking statements. The Directors have no intention to update or revise forward-looking statements, or to publish prospective financial information in the future, regardless of whether new information, future events or any other factors affect the information contained in this Presentation, except where required by law or the ASX listing rules.

DISCLAIMER

Whilst care has been exercised in preparing and presenting this presentation, to the maximum extent permitted by law, Liontown Resources Limited and its representatives:

- Make no representation, warranty or undertaking, express or implied, as to the adequacy, accuracy, completeness or reasonableness of this Presentation;
- Accept no responsibility or liability as to the adequacy, accuracy, completeness or reasonableness of this Presentation; and
- Accept no responsibility for any errors or omissions from this Presentation.

COMPETENT PERSON STATEMENT

The Information in this Presentation that relates to Ore Reserves, Production Target and Pre-Feasibility Study (PFS) for the Kathleen Valley Project is extracted from the ASX announcement "Updated Kathleen Valley Pre-Feasibility Study delivers substantial increase in NPV to AS1.1 billion and mine life to ~40 years" released on 9th October 2020 which is available on www.ltresources.com.au

The Information in this Presentation that relates to Mineral Resources for the Kathleen Valley Project is extracted from the ASX announcement "Kathleen Valley confirmed as a world-class lithium deposit as Mineral Resource increases to 156Mt @ 1.4% Li2O" released on the 11th May 2020 which is available on www.ltresources.com.au

The Information in this Presentation that relates to the Downstream Scoping Study (DSS) is extracted from the ASX announcement "Downstream Scoping Study: Kathleen Valley Lithium-Tantalum Project" released on 22 October 2020 which is available on www.ltresources.com.au

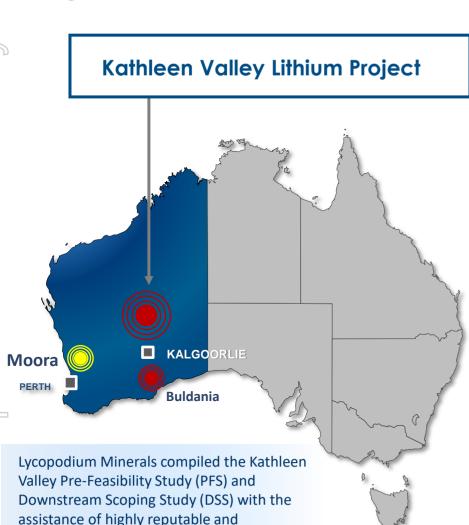
The information in Report that relates to Exploration Results for the Kathleen Valley Project is extracted from the ASX announcement "Kathleen Valley Lithium-Tantalum Project Advancing to the Next Level with Definitive Feasibility Study Underway" released on 11th January 2021 which is available on www.ltresources.com.au.

The Information in this Presentation that relates to Exploration Results for the Moora Project is extracted from the ASX announcements "Strong gold, PGE, nickel and copper anomalism returned from initial fieldwork completed at 100%-owned Moora Project, WA", "Further outstanding gold, PGE and nickel results from 100%-owned Moora Project, WA" and "Initial assays of up to 2.5% copper and 1.1g/t gold from maiden drilling program at 100%-owned Moora Project, WA" released on 13th May 2020, 13th July 2020 and 19th January 2021 which are available on www.ltresources.com.au

The Information in this Presentation that relates to Mineral Resources for the Buldania Project is extracted from the ASX announcement "Liontown announces maiden Mineral Resource Estimate for its 100%-owned Buldania Lithium Project, WA" released on the 8th November 2019 which is available on www.ltresources.com.au

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates or production targets or forecast financial information derived from a production target (as applicable) in the relevant market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

Project Overview



experienced consultants ensuring high

standard studies



Moora (Gold-PGE-Nickel-Copper)

Buldania (Lithium)

Low Risk Assets





• 156Mt @ 1.4% Li₂O and 130ppm Ta₂O₅

• ~40 year mine life

High grade

Multiple upside opportunities

• DFS due Q4 2021

Emerging mineral province

Unexplored

Exceptional early results

• Drilling Q1 2021

15Mt @ 1.0% Li₂O

Resource upside

100% Ownership

Established infrastructure

Investor-friendly jurisdiction

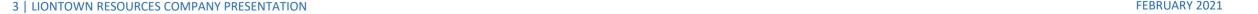
• Highly credentialled management

Well funded (~\$16M cash)*

*Refer Slide 22







ESGE - Integral to the Future





Commitment to minimise emissions, water usage & ground disturbance

S Social

Recognition of the Traditional Owners and their connection to country

 Meaningful & mutually beneficial engagement with other local stakeholders



Integration of environment & social benchmarks within corporate governance

E Economic

A strong ESGE framework = value for ALL stakeholders

Environment

Economic Social

Governance

Kathleen Valley
Lithium - Tantalum Project

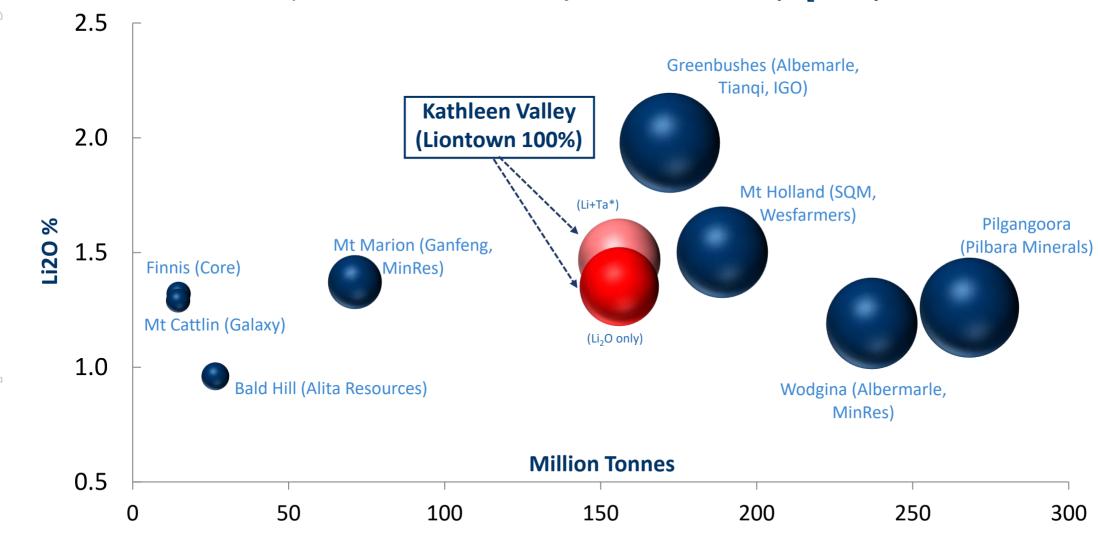
WESTERN AUSTRALIA 100%



A Tier 1 Lithium Resource



Australian Hard Rock Lithium Operations and Advanced Projects Tonnes x Grade | Li₂O Only



^{*}Refer to Appendix (Slide 25) for Peer Comparison information including Resource Classifications

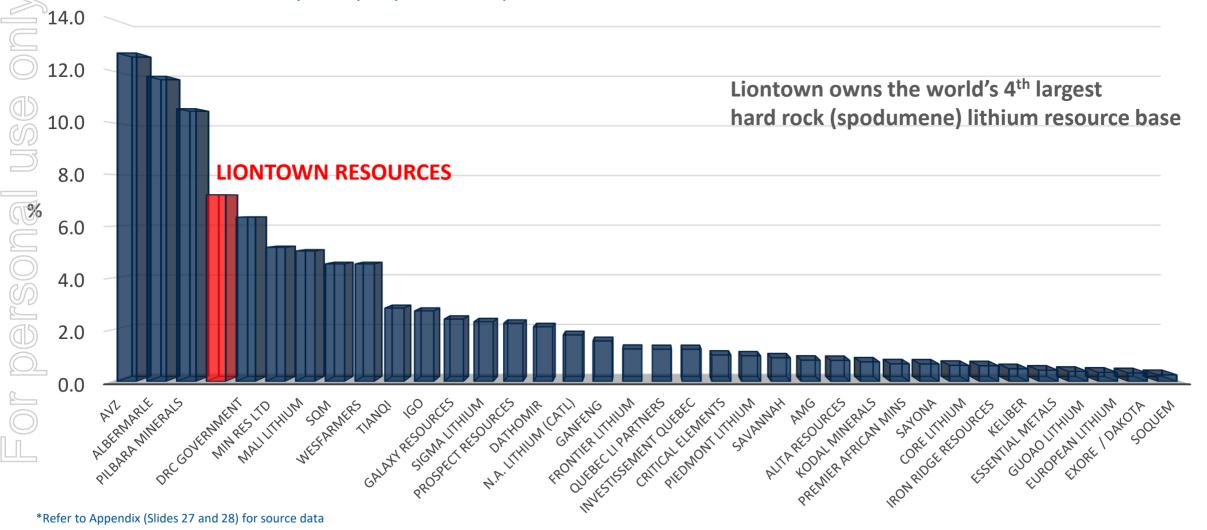
Dersonal

^{*}Refer to Appendix (Slide 26) for lithium equivalents parameters and calculations

A Globally Significant Deposit



World Hard Rock Lithium (Spodumene-dominant) Operations and Advanced Projects % Attributable Resources by Company Ownership



October 2020 PFS Key Metrics¹



Based on May 2020 MRE – 156Mt @ 1.4% Li₂O and 130ppm Ta₂O₅

	[
(N)	Reserve:	

71Mt @ 1.4% Li₂O 130ppm Ta₂O₅

Total production inventory¹ is 79Mt@ 1.4% Li₂O & 130 ppm Ta₂O₅



Mining: 2Mtpa



Life of Mine ~40 years



SC6: 350Ktpa **Ta₂O₅** (30%):

430tpa

A\$

Total Free Cash Flow +\$4.8B

NPV ² (Post Tax)	A\$1.12B
IRR	37%
Payback	3 Years
Opex ³ Years 1 - 10	US\$345/dmt (SC6)
Opex ³ Years LOM	US\$377/dmt (SC6)
Ave. SC6 Price (2025-2040) ⁴	US\$739/dmt
Capex	A\$325M (includes \$67M Open Pit Mine Pre-production)

¹ Refer Cautionary Statement on Slide 2 ² 8% (real)

³ Operating costs include all mining, processing, transport, state and private royalties, freight to port, port costs and site administration and overhead costs. Excludes sustaining capital. Royalties total US\$62/dmt Years 1- 10 and US\$67/dmt LOM.

⁴ Source: Roskill 2020 report. Refer to Appendix on Slide 29 for full assumptions.

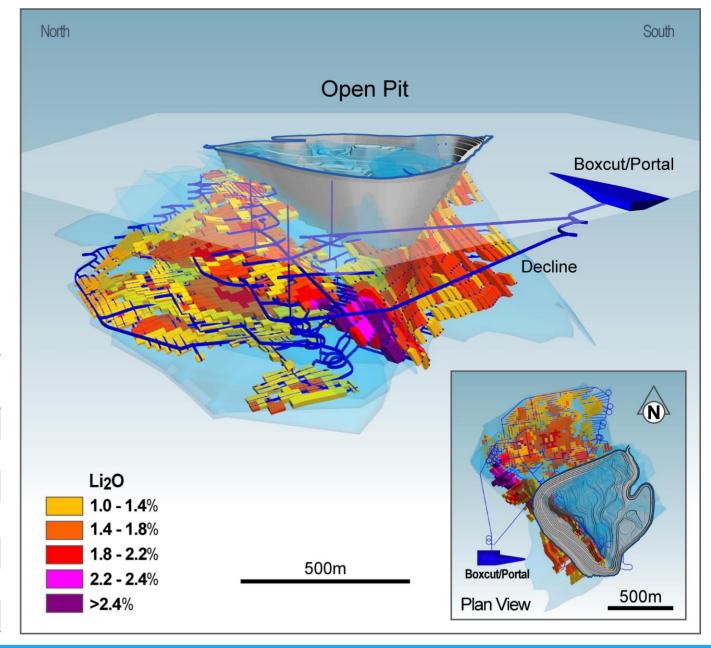
Resources & Reserves

Mi	Mineral Resource Estimate ¹ – May 2020								
	Cut-off Li ₂ O%	Resource Category	Million Tonnes	Li ₂ O%	Ta ₂ O ₅ (ppm)				
		Measured	20	1.3	140				
	0.55	Indicated	105	1.4	130				
		Inferred	32	1.3	110				
	тот	AL	156	1.4	130				

Inclusive of Ore Reserve

Ore Reserve – October 2020

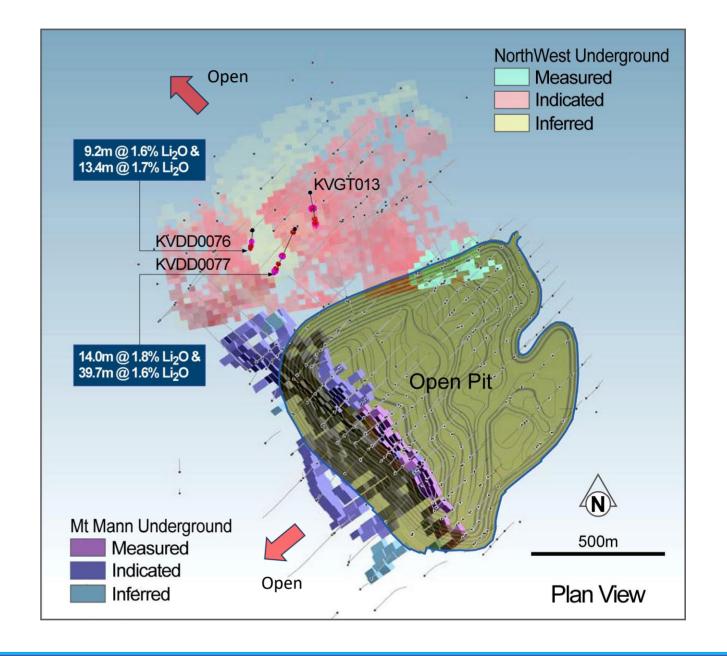
Cate	Million Tonnes	Li ₂ O%	Ta ₂ O ₅ (ppm)	
	Proven	3.9	1.4	130
Underground	Probable	37.6	1.5	120
	Sub Total	41.5	1.5	120
	Proven	11.7	1.2	140
Open Pit	Probable	17.6	1.2	130
	Sub Total	29.3	1.2	130
тот	TOTAL			130



Upside

PFS is a critical step towards the DFS and maximising future opportunities

- Resource conversion
- Resource expansion
- Throughput increase
- Potential to produce a premium concentrate (>6.5% Li₂O)
- Downstream processing¹



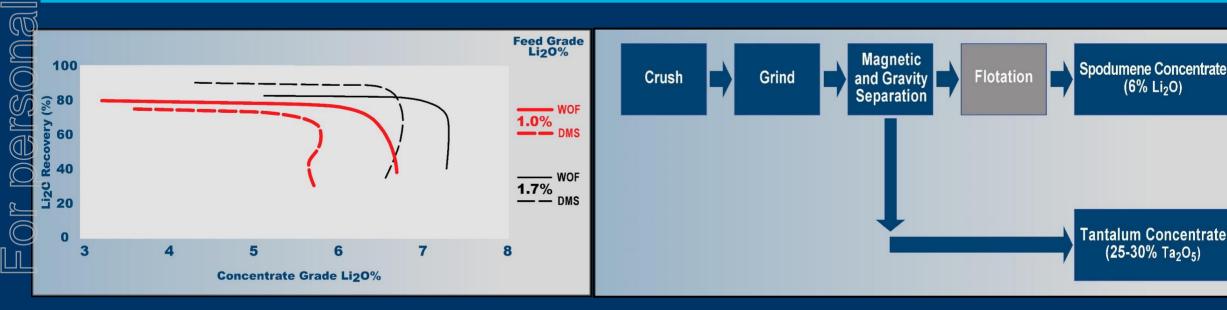
¹ Refer to Appendix (Slide 35) for proposed process flow sheet

Whole of Ore Float (WOF) Sheet De-Risks Project Execution



2020 Test Work Outcomes

- WOF produces higher grade concentrate compared with conventional DMS/Flotation processing
- Ta₂O₅ recovery of 56% at a concentrate grade of 15%
- Tantalum suitable for upgrade to 30% Ta₂O₅ concentrate offsite
- Magnetic separation reduces iron by up to 55% in flotation feed



WOF v DMS – Grade and Recovery Relationships

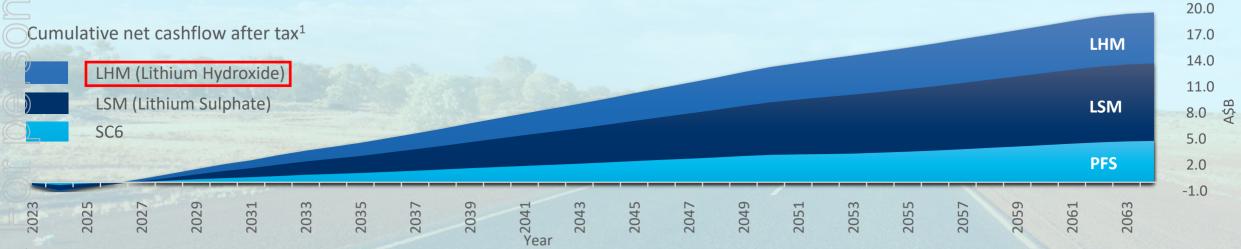
Proposed Simplified Whole Ore Flotation Flowsheet

Downstream Scoping Study Key Metrics¹

Based on October 2020 PFS

METRIC	LHM	LSM
NPV (Post Tax/8% real)	A\$4.8B	A\$3.2B
IRR	41%	35%
LOM Free Cash Flow	A\$19.5B	A\$13.7B
Payback	3 Years	3 Years

METRIC	LHM	LSM
LoM Opex (2, 6)	US\$4,744/t	US\$2,649/t
Price (2025 – 2040) ⁸	US\$14,079/t	US\$6,991/t
Design Production	58ktpa	88ktpa
Capex ^(3, 4, 5, 7)	A\$1.1B	A\$0.9B



¹ Refer Cautionary Statement on Slide 2

² Cash operating costs include all mining, processing, downstream refining, transport, state & private royalties, freight to port, port costs and site administration and overhead costs. Excludes sustaining capital.

³ Integrated Capex for LHM production includes \$325M for the mine/ SC6.0 processing plant (PFS) and \$785M for the downstream refinery ⁴ Integrated Capex for LSM production includes \$325M for the mine/ SC6.0 processing plant (PFS) and \$625M for the downstream refinery

⁵SC6.0 plant capital to PFS level +/-25% accuracy, DSS to +/-30% accuracy

⁶PFS included no contingency on SC6.0 operating costs, DSS included no contingency on operating costs

⁷ PFS included 15% (\$27M) capital contingency, DSS included 20% (\$135M LHM & \$109M LSM) contingency on capital costs

⁸ LHM Pricing per Roskill price estimates, LSM pricing scaled based on Roskill LHM price estimate (Sept. 2020). Refer to Slide 31 for full assumptions.

Location and Infrastructure

Well serviced and highly active mining region



Major Ni & Au Mines



Powerline



Goldfields Highway



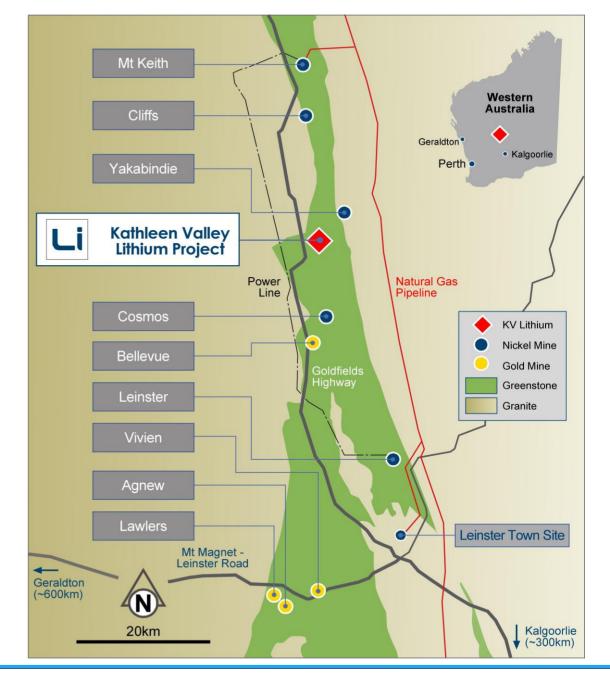
Town of Leinster



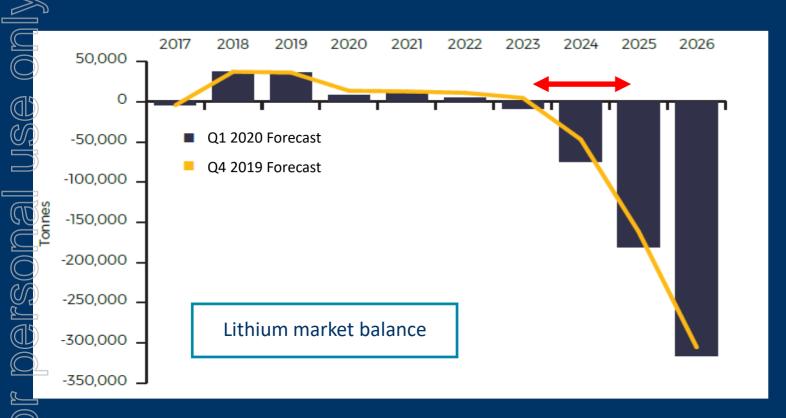
Sealed Airstrips



Natural Gas Pipeline



The longer-term fundamentals remain strong



Kathleen Valley production is on track to align with the forecast rise in lithium demand

Source: Benchmark Minerals, Intelligence Special Report, April 2020

Lithium – "The irreplaceable element in the electric era"

JANUARY 2020

 EU rules begin – heavily penalising carmakers on CO₂ emissions

JULY 2020

 Deloitte forecasts EVs to make up a third of new cars sold globally by 2030

SEPTEMBER 2020

California moves to ban sale of all ICE vehicles by 2035

OCTOBER 2020

UBS predicts total price parity with ICEs by 2024

NOVEMBER 2020

- UK to ban sale of all ICE vehicles from 2030 5 years earlier than previously planned.
- · China achieves record EV sales in November

DECEMBER 2020

 Volkswagen's full EV ID.3 becomes the second most registered car in Europe

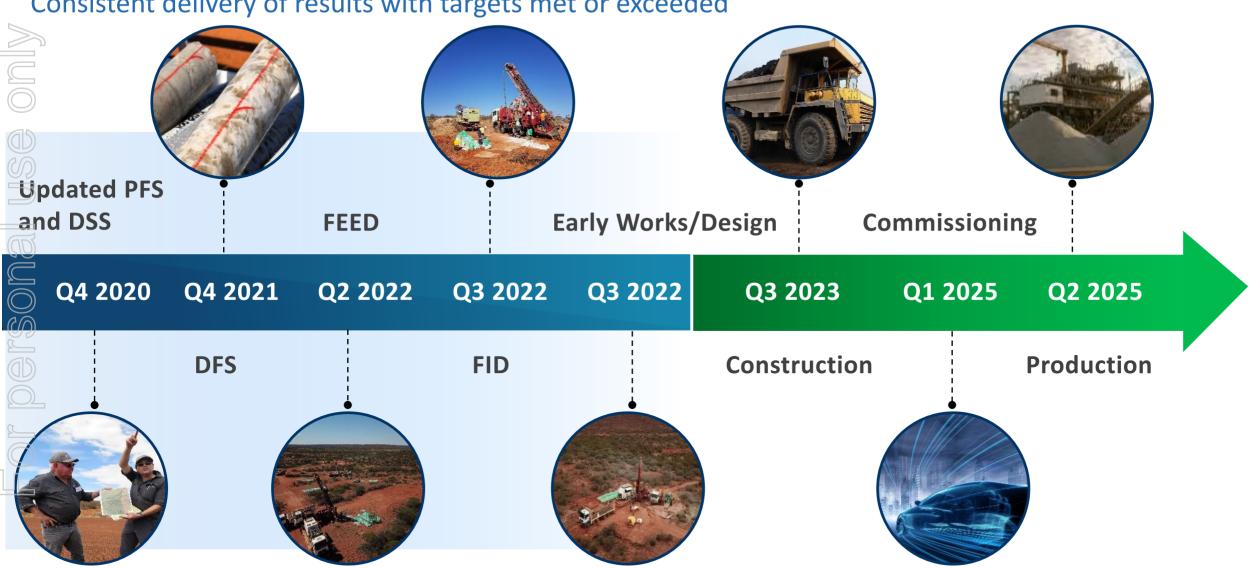
JANUARY 2021

- Lithium, cobalt, nickel prices rise, as EV upturn and commodity supercycle looms
- President Biden announces plan to replace US federal government's current fleet of ICE vehicles with electric vehicles

Timeline



Consistent delivery of results with targets met or exceeded



FEBRUARY 2021 15 | LIONTOWN RESOURCES COMPANY PRESENTATION

Moora
Au-PGE-Ni-Cu Project

WESTERN AUSTRALIA 100%





Project Overview

Moora is located in an emerging precious and base metal mineral province



Same geological terrain as the Julimar Ni-PGE-Cu-Au discovery by Chalice Mines Limited (ASX:CHN)



Project comprises 100% owned tenure (467km²) and JV tenure (600km²) where LTR can earn up to 51%



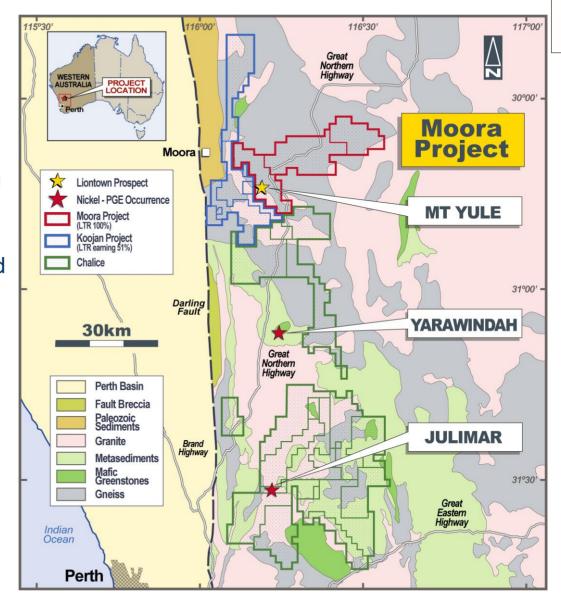
Limited historical surface geochemistry and shallow drilling has recorded strongly anomalous nickel, copper, PGEs & gold



Largely unexplored



>1,000km² area – only 150km from Perth





Prospective Trends Identified



Julimar Trend

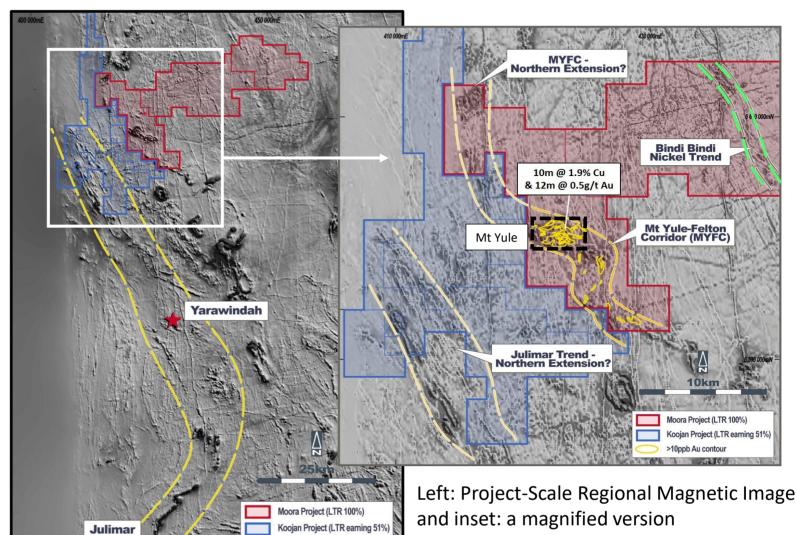
 Defined by northerly extension of regional magnetic data

Mt Yule – Felton Corridor (MYFC)

- Defined by coincident geochemical and geophysical anomalism
- Maiden drill intercepts up to 10m @
 1.9% Cu and 12m @ 0.5g/t Au –
 associated with elevated Ni & PGEs

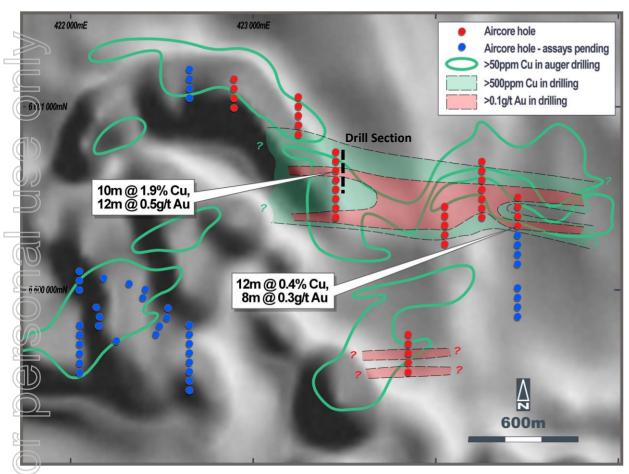
Bindi Bindi Nickel Trend

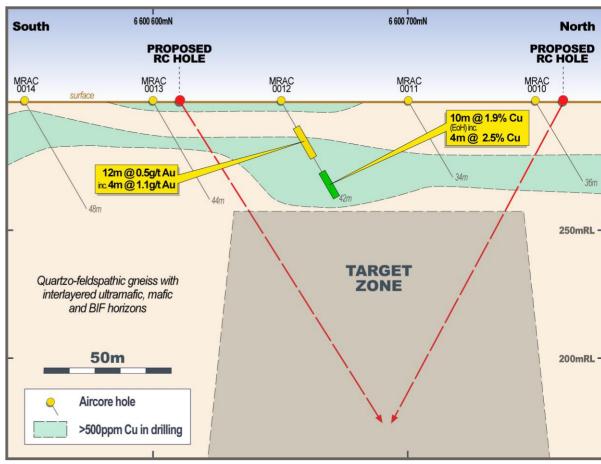
 Historic (1968) drill intersections up to 21m @ 0.6% Ni from surface



Mt Yule Prospect







Extensive copper-gold anomalism defined by shallow, wide-spaced aircore drilling with assays up to 2.5% copper & 1.1g/t gold

Moving Forward at Moora



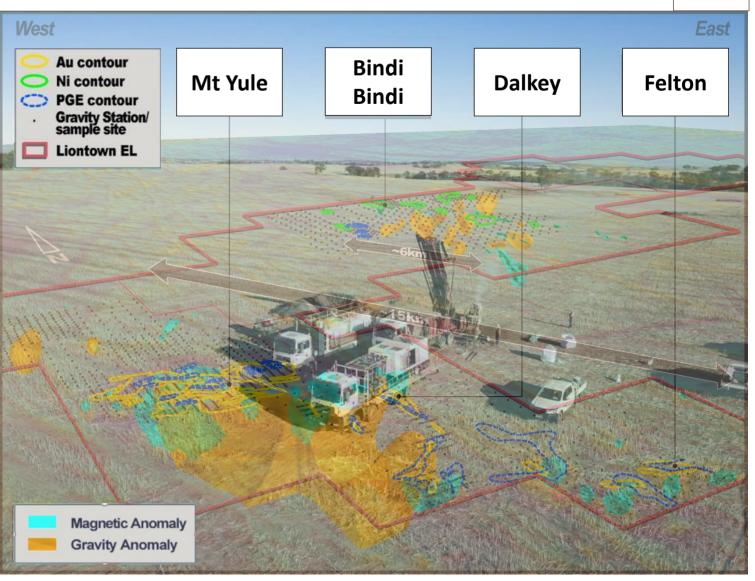
Next Steps

Process pending assays - >1,500 samples in the laboratory

Complete maiden aircore and RC drilling programs

Extend first pass auger sampling over priority magnetic trends

Phase 2 drilling



Investment Case



The only independent "Tier 1" lithium resource in Australia, strengthened by exciting new exploration targets

Kathleen Valley





156Mt resource/ 40 Year mine life



High grade/Low cost



Safe jurisdiction with good infrastructure



Multiple opportunities to improve economics

Moora





Au-PGE-Ni-Cu Project in an emerging mineral province



Exceptional early results with follow up ongoing

Projects are 100% owned and in a stable, established, investor friendly jurisdiction

Leadership and Key Financials





David Richards Managing Director

- +35 years (Geologist)
- Discovered multimillion ounce Vera **Nancy Gold Deposits**



Tim Govder Chairman

- +40 years (Mining
- Entrepreneur)
- Chairman Chalice Mines



Craig Williams

- Non-Executive Director
 - +40 years (Geologist)
 - Founder and CFO of Equinox Minerals



Anthony Cipriano

- Non-Executive Director
- +30 years (Chartered Accountant)
- Former Senior Partner at Deloitte



Steven Chadwick

- Non-Executive Director
- +40vears (Metallurgist)
- Director of Lycopodium Limited



Adam Smits

Craig Hasson

- CFO & Co. Secretary
- +15 years (Chartered Accountant)
- · Commercial & Financial experience



Jamie Day

Exploration Manager

- +20 years (Geologist)
- Former Senior Geologist for Independence Group

Corporate Snapshot

ASX CODE: LTR

Shares on Issue	~1,809M (01 Feb 2021)
Market Capitalisation	~\$742M (at \$0.41cps on 28 Jan 2021)
Major Shareholder	Tim Goyder ~18%
Top 20 Shareholders	~44% (01 Feb 2021)
Cash	~\$16.4M (31 Dec 2020)
Research Coverage	Bell Potter/Bridge Street Capital

Chief Operating Officer • +20 years (Mechanical Engineer)

> Former COO Nzuri Copper

Thank You

For more information visit www.ltresources.com.au





liontown-resources-limited in





APPENDIX 1



Kathleen Valley Project Additional Information



Peer Comparison Information – Mineral Resource Estimates



Company	Project	Stage	Measured Mt	Indicated Mt	Inferred Mt	Global MRE Mt	MRE Li2O Grade %	Information Source
	Kathleen Valley	Development	20.0	105.0	32.0	156.0	1.35	ASX Release 11/5/2020
Liontown Resources	Buldania	Scoping	0.0	9.1	5.9	14.9	0.97	ASX Release 8/11/2019
Pilbara Minerals	Pilgangoora	Operating	18.3	113.8	90.4	222.5	1.26	2020 Annual Report
Pilibara Willierais	Pilgangoora (Altura)	Operating	7.4	34.2	4.1	45.7	1.06	2019 Ann Rep, 9/10/2019 ASX release
SQM(50%)/Wesfarmers(50%)	Mt Holland	Development	66.0	106.0	17.0	189.0	1.50	ASX Release 19/3/2018 (Kidman Resources)
Albermarle (49%)/Tianqi (26%)/IGO (25%)	Greenbushes (excl taillings)	Operating	0.2	163.1	8.9	172.2	1.98	IGO acquisition presentation and ASX release 9/12/20
Alita Resources	Bald Hill	Operating (C+M)	0.0	14.4	12.1	26.5	1.00	ASX Release 6/6/2018 (Alliance Minerals Assets)
Ganfeng(50%)/MinRes Ltd(50%)	Mt Marion	Operating	0.0	22.7	48.7	71.3	1.37	ASX Release 31/10/2018 (Mineral Resources)
Core Lithium	Finnis	Development	3.2	4.4	7.1	14.7	1.32	2020 Ann Rep, 23/6/2020 Presentation
Albermarle(60%)/Min Res Ltd(40%)	Wodgina (excl tailings)	Operating (C & M)	0.0	177.0	59.9	236.9	1.19	ASX Release 23/10/2018 (Mineral Resources)
Galaxy Resources	Mt Cattlin (100%)	Operating	1.0	9.2	4.4	14.6	1.29	ASX Release 11/3/2020

Kathleen Valley



Ta2O5 =	0.407(7.4)
·	0.40=(=4)
Ta2O5 =	0 40= (= 4)
	0.107 (F4)
Equiv Li2O	
grade =	1.5%
(Li2O%	
+Ta2O5)	

Peer Comparison Information

Global Attributable
Hard Rock
(Spodumene)
Resources

Company	Project (Ownership%)	Status	Source	Global MRE (Mt)	Li20%	%Global Resources
AVZ	Manono (60%)	DFS	May 2019 Resource Update, sourced from 21/4/2020 ASX release	240.0	1.7	12.7
	Kings Mountain (100%)	Operating (C & M)	https://en.wikipedia.org/wiki/Kings_Mountain_Mine, https://www.albemarle.com/businesses/lithium/resourcesrecycling/lithium-resources	45.6	0.7	
Albermarle	Greenbushes (49%)	Operating	IGO acquisition presentation 9/12/20	84.4	2.0	11.8
	Wodgina (60%)	Operating (C & M)	ASX Release 23/10/2018 (Mineral Resources)	142.2	1.2	
Dille and Main and le	Pilgangoora (100%)	Operating	2020 Annual Report	222.5	1.3	40.5
Pilbara Minerals	Pilgangoora Altura (100%)	Operating	9/10/2019 ASX release (Altura)	45.7	1.1	10.5
	Kathleen Valley (100%)	PFS	ASX Release 11/5/2020	156.0	1.4	7.2
	Buldania (100%)	Exploration	ASX Release 8/11/2019	14.9	1.0	7.2
DRC Government	Manono (30%)	DFS	May 2019 Resource Update, sourced from 21/4/2020 ASX release	120.0	1.7	6.3
Adia Danishi	Mt Marion (50%)	Operating	ASX Release 31/10/2018 (Mineral Resources)	35.7	1.4	F 2
Min Res Ltd	Wodgina (40%)	Operating (C & M)	ASX Release 23/10/2018 (Mineral Resources)	94.8	1.2	5.2
Mali Lithium	Goulamina (100%)	Exploration	ASX Release 8/7/2020	108.5	1.5	5.0
SQM	Mt Holland (50%)	Pre-Development	ASX Release 19/3/2018 (Kidman Resources)	94.5	1.5	4.5
Wesfarmers	Mt Holland (50%)	Pre-Development	ASX Release 19/3/2018 (Kidman Resources)	94.5	1.5	4.5
Tianqi	Greenbushes (26%)	Operating	IGO acquisition presentation 9/12/20	44.8	2.0	2.8
IGO	Greenbushes (25%)	Operating	IGO acquisition presentation 9/12/20	43.1	2.0	2.7
Calaur Baranna	James Bay (100%)	Exploration	ASX Release 11/3/2020	40.3	1.4	2.4
Galaxy Resources	Mt Cattlin (100%)	Operating	ASX Release 11/3/2020	14.6	1.3	2.4
Sigma Lithium	Grota de Cirilo (100%)	Development	SEDAR Announcement Jan 10th 2019	52.4	1.4	2.3
Prospect Resources	Arcadia (87%)	Exploration	ASX Release 20/11/2019, DFS Nov 2019, Presentation Feb 2020	63.2	1.1	2.3
Dathomir	Manono (10%)	DFS	May 2019 Resource Update, sourced from 21/4/2020 ASX release	40.0	1.7	2.1

Peer Comparison Information

Global Attributable
Hard Rock
(Spodumene)
Resources (continued)

Company	Project (Ownership%)	Status	Source	Global MRE (Mt)	Li20%	%Global Resources
Ganfeng	Mt Marion (50%)	Operating	ASX Release 31/10/2018 (Mineral Resources)	35.7	1.4	1.6
Frontier Lithium	PAK & SPARK (100%)	Exploration	NI43-101 March 19 2020 (Frontier Lithium)	25.8	1.5	1.3
Quebec Li Partners	Whabouchi (50%)	Development	Nemaska May 31 2019 NI43-101	27.8	1.4	1.2
Investissement Quebec	Whabouchi (50%)	Development	Nemaska May 31 2019 NI43-101	27.8	1.4	1.2
Critical Elements	Rose (100%)	DFS	Critical Elements Nov 29, 2017 NI43-101, 2019 Ann Rep	34.7	0.9	1.0
Piedmont Lithium	Core & Central (100%)	Exploration	ASX Release 25/6/2019	27.9	1.1	1.0
Savannah	Mina Do Barosso et al (100%)	Exploration	May 2019 Resource Announcement	27.0	1.1	0.9
AMG	Mibra (100%)	Operating	3rd April 2017 AMG release	24.5	1.1	0.8
Alita Resources	Bald Hill (100%)	Operating (C & M)	ASX Release 6/6/2018 (Alliance Minerals Assets)	26.5	1.0	0.8
Kodal Minerals	Bougouni (100%)	Exploration	August 27 2020 Corp Presentation	21.3	1.1	0.8
Premier African Mins	Zulu (100%)	Exploration	13/11/2017 Scoping Study by Bara Resources	20.1	1.1	0.7
Sayona	Authier (100%)	DFS	ASX Release 24 /9/2018	20.9	1.0	0.7
Core Lithium	Bynoe (100%)	Exploration	2020 Ann Rep, 23/6/2020 Presentation	14.7	1.3	0.6
Iron Ridge Resources	Ewoyaa-Abonko-Kaampakrom (100%)	Exploration	AIM Release 28/1/2020	14.5	1.3	0.6
Keliber	Ostrobothnia (100%)	DFS	Company releases 30/9/2019 and 5/12/2019	14.2	1.1	0.5
Essential Metals	Cade (100%)	Exploration	ASX Release 29/9/2020	11.2	1.2	0.4
GuoAo Lithium	Moblan (60%)	Exploration	ASX Release 31/5/2011 (Perilya)	8.6	1.4	0.4
European Lithium	Wolfsberg (100%)	Exploration	ASX Release 3/7/2017	11.0	1.0	0.4
Exore / Dakota	Sepeda (100%)	Exploration	Dakota Minerals ASX Release 20/2/2017	10.3	1.0	0.3
SOQUEM	Moblan (40%)	Exploration	ASX Release 31/5/2011 (Perilya)	5.7	1.4	0.3

2020 PFS v 2019 PFS

Li

Key Parameters And Assumptions

ney rarameters / ma / issamptions							
General and Economic	2020 PFS ¹	2019 PFS					
Discount rate (real, post-tax)	8%	8%					
SC6.0 (US\$ per tonne FOB Geraldton)	US\$739/t ⁴	US\$690/dmt FOB SC6.0					
Tantalum 30% conc. (US\$ per lb FOB Fremantle)	US\$69.9/lb ⁵	n/a					
Exchange rate – AUD/USD	0.72	0.72					
Mining and Production							
Average LOM strip ratio (Open Pit)	8.4:1	7.7:1					
Processing rate	2Mtpa	2 Mtpa					
Life-of-Mine Production Target (49Mt UG & 30Mt OP)	79 Mt ore	50.4 Mt ore					
Li ₂ O & Ta ₂ O ₅ grades (diluted) years 1-10	1.5%/120 ppm	1.10%/NA					
LOM average Li ₂ O & Ta ₂ O ₅ grades (diluted)	1.4%/130ppm	1.18%/NA					
LOM average Li ₂ O recovery ²	76%	76%					
Overall Ta ₂ O ₅ recovery (% including offsite upgrade losses of ~6%)	50%	0%					
SC6.0 grade	6%	6.1%					
Ta ₂ O ₅ Concentrate final grade	30%	NA					
Moisture content of SC6.0	9%	9%					
Avg annual Tonnes of SC6.0	350ktpa	NA					
Avg annual Tonnes of 30% Ta ₂ O ₅ concentrate	430tpa	NA					

Cost Assumptions	2020 PFS ¹	2019 PFS
LOM avg open pit mining costs ³ (\$/dmt ore processed)	A\$43	A\$35.12
LOM avg U/G mining costs (\$/dmt ore processed)	A\$55	NA
LOM average processing cost (\$/dmt ore processed)	A\$20	A\$18.20
Logistics and transport (\$/ wmt conc. inc Port Charges)	A\$65/wmt	A\$77.26
General and admin (\$/dmt ore processed inc. mining)	A\$6.0	A\$4.71
Western Australia State royalty	5%	5%
Private royalties (does not apply to MLA M36/696)	3% gross sales & A\$0.5/t ore mined	3% gross sales & A\$0.5/t ore mined
Corporate tax rate	30%	30%
Estimated opening tax losses	A\$35M	\$30m

¹ Refer Cautionary Statement on Slide 2

² Based on testwork derived grade recovery relationship for PFS mine plan grades of Li₂O (inclusive Ta₂O₅ extraction Li₂O losses)

³ Includes ROM rehandle

⁴ Per Roskill September 2020 Report for avg arms length prices (2025-2040), adjusted to FOB. \$US795/t FOB for 2041-2064.

⁵ Per Roskill September 2020 Report for avg arms length prices (2025-2040), adjusted to FOB. \$US65/lb FOB for 2041-2064.

PFS – Operating & Capital Summary¹



Life of Mine Financials

3))	(A\$B)
Revenues (lithium)	14.7
Operating costs ²	5.9
Capital expenditure - pre-production - sustaining	0.3 0.4
Royalties	1.3
Corporate tax	2.0
Life of Mine Free Cash flow	4.8
//	

¹ Refer Cautionary Statement on Slide 2 ² Net of tantalum credits

Capital Costs Summary

Main Area	Capital (A\$M)
Treatment Plant	84.8
Reagents & Plant Services	16.0
Infrastructure – general	53.3
Mining Infrastructure	2.0
Construction Indirects	23.8
Subtotal	179.9
Management Costs	23.0
Owners Project Costs	19.8
Mining Pre-production (U/G & open pit)	67.1
Owners Pre-production	8.5
Subtotal	298.3
Contingency	26.8
Project Total	325.1

2020 Downstream Scoping Study (DSS)



Key Parameters And Assumptions¹

General and Economic	LHM	LSM
Discount rate (real, post-tax)	8%	8%
Ave. Price (US\$/t FOB Fremantle 2025-2040)	US\$14,079/t ⁵	US\$6,991/t ⁶
Tantalum 30% conc. (US\$/lb FOB Fremantle)	US\$69.9/lb ⁷	US\$69.9/lb ⁷
Exchange rate – AUD/USD	0.72	0.72
Downstream Integrated Refinery		
Number of processing trains	2	2
Recovery Li (%)	90	90
Calcination temperature (°C)	1,100	1,100
Sulphuric Acid Addition (mol/mol)	1.25 (H ₂ SO ₄ :Li ₂ O)	1.25 (H ₂ SO ₄ :Li ₂ O)
Acid Roast Temperature (°C)	250	250
Acid Leaching Residence Time (minutes)	120	120
Lithium Sulphate Crystalliser Stages (per train)	2	2
Design Production	58ktpa	88ktpa

Cost Assumptions	LHM	LSM
LOM avg operating cost (US\$/dmt SC6) ²	US\$310	US\$310
LOM avg operating costs inc. SC6 costs ³	US\$4,744	US\$2,649
LOM average processing upgrade cost LSM to LHM	NA	US\$1,509/t LHM
Transport costs (A\$/t to Fremantle)	A\$86	A\$86
Western Australia State royalty ⁴	5%	5%
Private royalties ⁴ (does not apply to MLA M36/696)	3% gross sales &	3% gross sales &
	A\$0.5/t ore mined	A\$0.5/t ore mined
Corporate tax rate	30%	30%
Estimated opening tax losses	A\$35M	\$30m

¹ Refer Cautionary Statement on Slide 2

² Excludes royalties

³ Includes royalties

⁴ Based on spodumene feedstock market value for gross sales

⁵ Per Roskill September 2020 Report for avg China Spot Prices (2025-2040), adjusted to FOB. \$US15,512/t FOB for 2041-2064.

⁶ LTR assumed prices based on 50% factored Roskill LHM prices (2025-2040), adjusted to FOB. \$US7,707/t FOB for 2041-2064.

⁷ Per Roskill September 2020 Report for avg arms length prices (2025-2040), adjusted to FOB. \$US65/lb FOB for 2041-2064.

DSS – Cash Flows

Integrated Life of Mine Financials¹

	LHM (A\$B)	LSM (A\$B)
Revenues (lithium)	43.2	32.6
Operating costs ^{2, 4}	(12.5)	(10.4)
Capital expenditure - pre-production - sustaining	(1.1) (0.4)	(0.9) (0.4)
Royalties (All)	(1.3)	(1.3)
Corporate tax	(8.4)	(5.9)
Life of Mine Free Cash flow	19.5	13.7

Capital Costs Summary³

Main Area	LHM (A\$M)	LSM (A\$M)
WOF Plant & Mine Dev.	298	298
DSS Refinery and Infrastructure		
Plant site/Earthworks	7.1	7.1
Treatment Plant	377.2	292.3
Reagents/Plant Services	37.2	30.5
Plant Buildings	6.5	6.5
Camp Expansion	12.6	11.8
Distributable	69.6	55.1
Preproduction Costs and Spares	39.8	32.5
Mobile Equipment	5.0	5.0
Subtotal	853.0	738.8
EPCM Management Costs (DSS) Owners Costs (DSS)	76.5 19.1	60.5 15.1
Subtotal	948.6	814.4
Contingency (DSS+PFS) ⁵	161.5	135.6
Project Total	1,110.1	950.0

¹ Refer Cautionary Statement on Slide 2

Net of tantalum credits

³SC6.0 plant capital to PFS level +/-25% accuracy, DSS to +/-30% accuracy

⁴PFS included no contingency on SC6.0 operating costs, DSS included no contingency on □operating costs

⁵ PFS included 15% (\$27M) capital contingency, DSS included 20% (\$135M LHM & \$109M LSM) contingency on capital costs

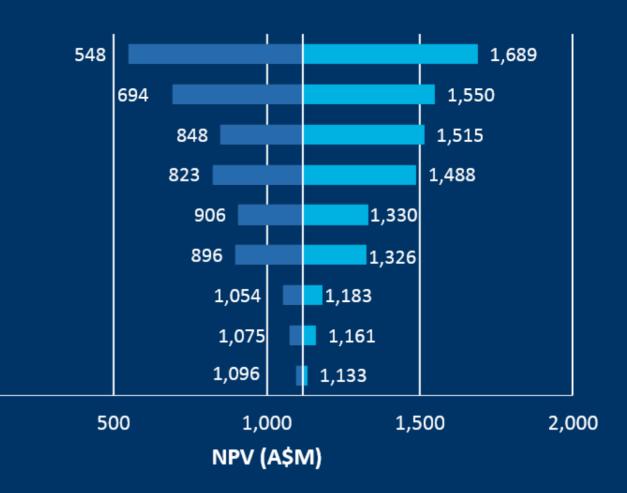
NPV Sensitivity Analysis (PFS)¹



Dersonal

A\$1,120M Base Case

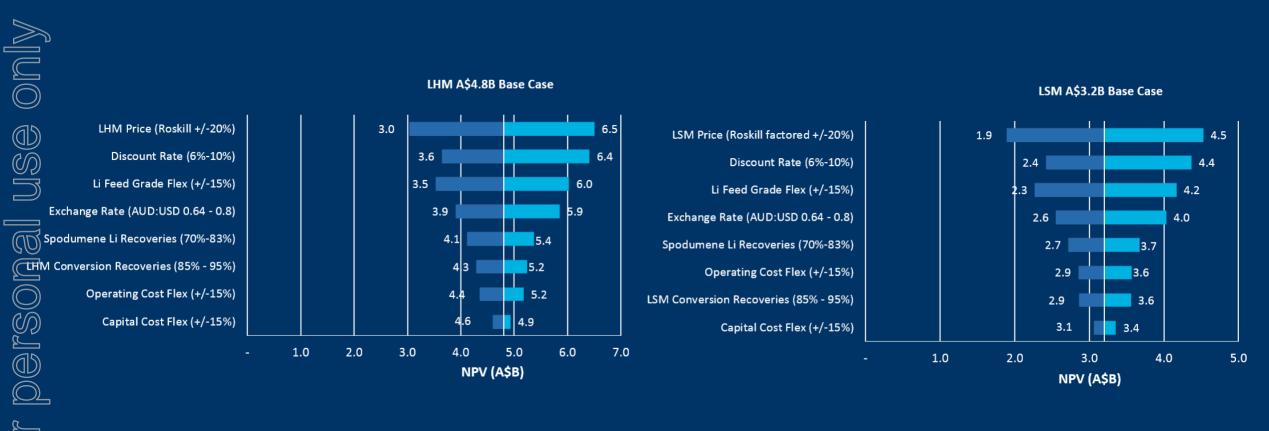




¹ Refer Cautionary Statement on Slide 2

NPV Sensitivity Analysis (DSS)¹



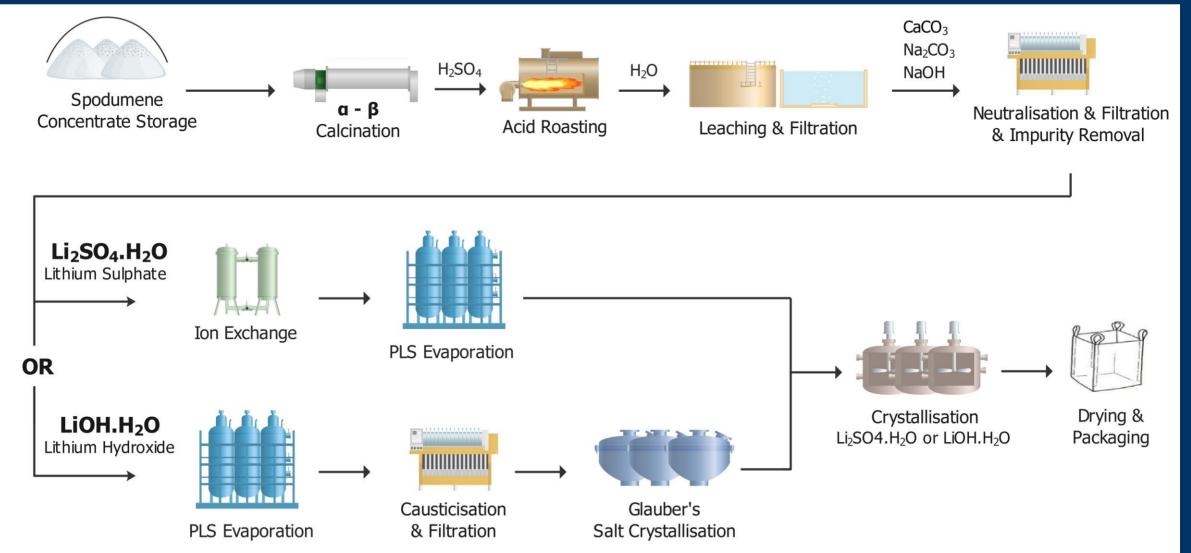


¹ Refer Cautionary Statement on Slide 2

DSS | Refinery Flow Sheet

For bersonal use only





APPENDIX 2



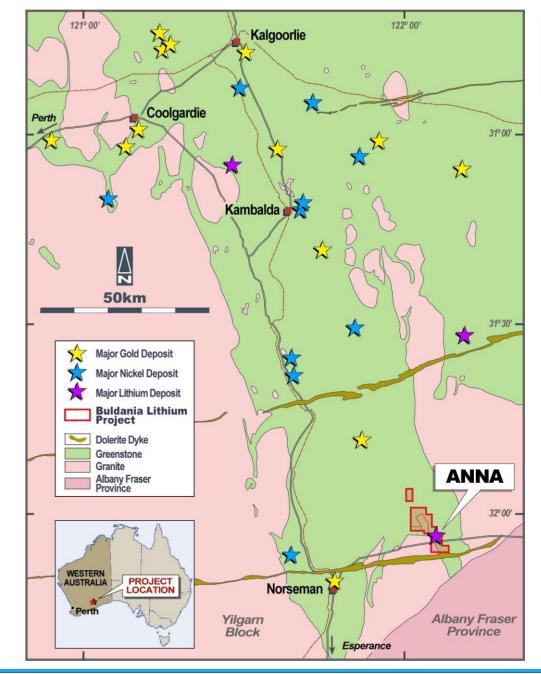
Buldania Lithium Project (Liontown 100%)



Project Overview

Buldania is Located in a Lithium-Rich Mineral Province

- 1 Outcropping, fresh, spodumene-related mineralization
- Mineralisation at Anna extends to the SE under shallow cover strike length >1.4km and open
- Similar geology to the Mt Marion and Bald Hill lithium deposits (71Mt¹ and 26Mt² respectively)
 - Good infrastructure located on Eyre Highway ~30km east of Kalgoorlie-Esperance railway
 - Liontown has 100% of the lithium and related metal rights
 - Mining Lease Application lodged over Anna deposit
 - 1. Mt Marion Refer to Peer Comparison table slide 27
 - 2. Bald Hill source: http://www.allianceminerals.com.au/projects/





Resource



Maiden Mineral Resource Estimate

14.9Mt @ 1.0% Li₂O

The completion of the MRE complements Liontown's flagship Kathleen Valley Lithium Project

