

Fast **charging** towards a low carbon future

Introduction to Liontown Resources

February 2022

ASX: LTR

Important Information



Cautionary Statement

The production targets and forecast financial information referred to in the Definitive Feasibility Study (DFS) and Downstream Scoping Study (DSS) were based on Proven Ore Reserves (3.4%), Probable Ore Reserves (79.4%) and Inferred Mineral Resources (17.2%). The Inferred material included in the inventory was 14.3Mt @ 1.1% Li₂O & 120 ppm Ta₂O₅. The Inferred material was scheduled such that less than 10% of the Inferred material is mined in the first ten years, with the remainder mined through to the end of the mine life.

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 Exploration Results and Mineral Resources for the Kathleen Valley Project is extracted from the ASX announcement "Strong progress with Kathleen Valley Definitive Feasibility Study as ongoing work identifies further key project enhancements" released on 8 April 2021 which is available on www.ltresources.com.au.

The Information in this Presentation that relates to metallurgical testwork and process design, Ore Reserves, Production Target and DFS for the Kathleen Valley Project is extracted from the ASX announcement "Kathleen Valley DFS confirms Tier-1 global lithium project with outstanding economics and sector-leading sustainability credentials" released on 11 November 2021 which is available on www.ltresources.com.au.

The Information in this Presentation that relates to the DSS for the Kathleen Valley Project is extracted from the ASX announcement "Updated Downstream Scoping Study Highlights Next Growth Horizon for Kathleen Valley Project" released on 11 November 2021 which is 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 8 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.

Authorisation

This Presentation has been authorised for release by the Board.

Investment Highlights



Globally significant Tier 1 project



Robust lithium thematic, timed to perfection



Clear long-term strategy with material value upside



ESG core to strategy



Well capitalised with strong flexibility



Foundational offtake agreement with LG Energy Solution



Experienced leadership strongly aligned to shareholders



Liontown Corporate Overview

Liontown is focused on the development of the world-class Kathleen Valley Lithium Project

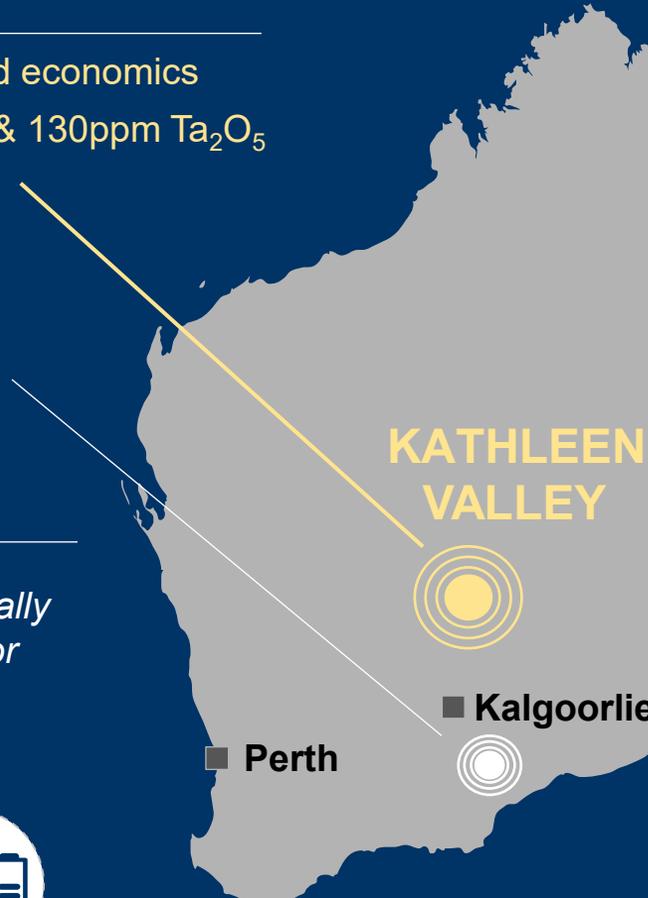
Projects

Kathleen Valley World-class scale and economics
156Mt @ 1.4% Li₂O & 130ppm Ta₂O₅
High-grade

Buldania 15Mt @ 1.0% Li₂O
Resource upside

Strategy

We aim to be an ESG-leader, and a globally significant provider of battery materials for the rapidly growing clean energy market



Corporate snapshot (4 Feb 2022)

ASX: LTR

Market Cap.

A\$3.2bn

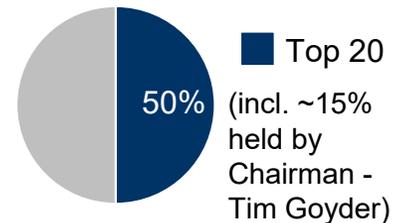
Share price (\$/s)

A\$1.46

Shares on issue¹

2,192m

Major shareholders



Cash and term deposits²

A\$474m

Research coverage



1: Includes 7.8m SPP shares issued on 4 February 2022.

2: Unaudited balance as of 31 December 2021, plus SPP proceeds of A\$13m.

Board and Management



Highly experienced Board and Executive Leadership Team, with a track record of delivering shareholder value

Board of Directors



Tim Goyder

Chairman
+40 years (Mining Executive)
Founder of Chalice Mining



Craig Williams

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



Anthony Cipriano

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



Jennifer Morris

Non-Executive Director
+20 years (Corporate Executive)
Director of Fortescue Metals and Sandfire Resources



Steven Chadwick

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



Tony Ottaviano

Managing Director
+30 years (Mech. Engineer)
Former BHP, Rio Tinto, and Wesfarmers executive

Executive Leadership Team



Tony Ottaviano

Managing Director / CEO
+30 years (Mech. Engineer)
Former BHP, Rio Tinto, and Wesfarmers executive



Adam Smits

COO
+20 years (Mech. Engineer)
Former COO Nzuri Copper



Craig Hasson

CFO
+15 years (Chartered Accountant)
Commercial & Financial experience



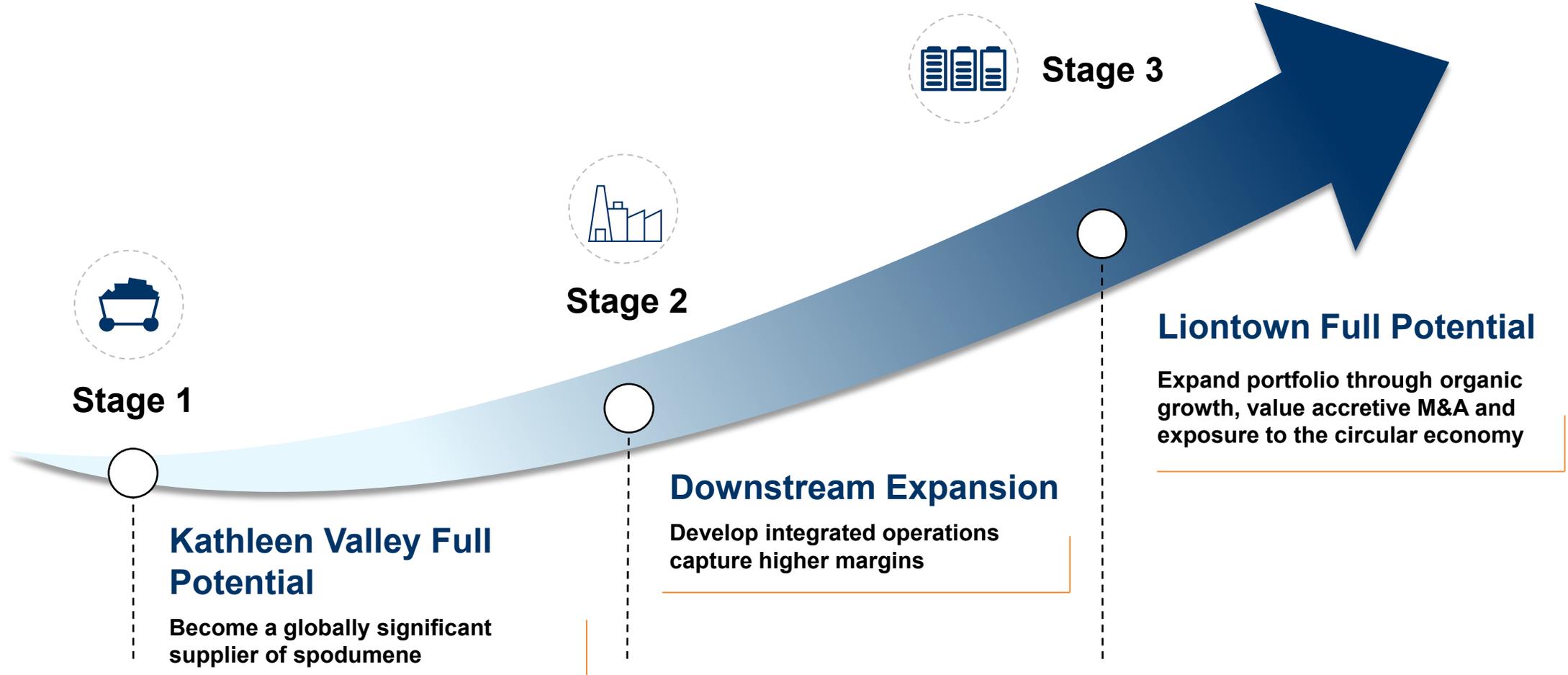
Clint McGhie

Company Secretary
+15 years (Chartered Secretary and Chartered Accountant)
Commercial & Governance experience

Liontown's Strategy



We aim to be an ESG-leader, and a globally significant provider of battery materials for the rapidly growing clean energy market



Liontown's ESG Focus – 10 Years to Net Zero¹

Environment

- Aspiring to have best-in-class Scope 1 and 2 emissions and reduced impact on local surroundings
- ~60% renewable energy target to reduce Scope 2 emissions
- Minimising water usage through recycling

Customers

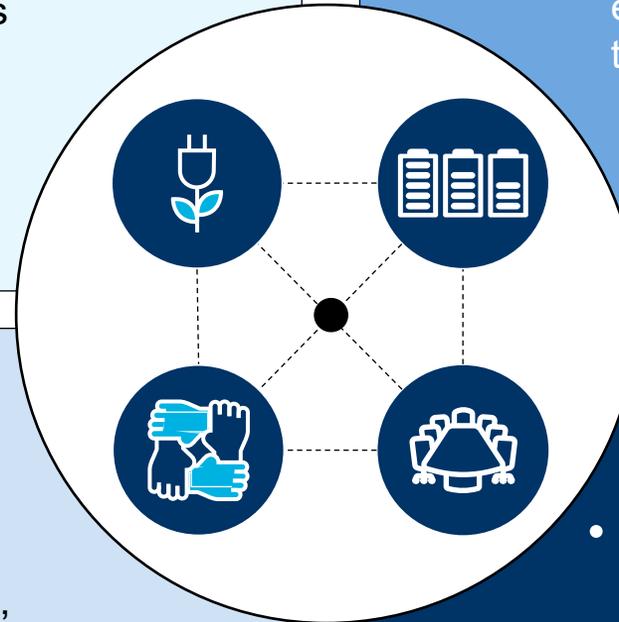
- Automotive OEMs increasingly demand environmentally-friendly, low-carbon batteries to achieve Scope 1-3 targets
- Carbon footprint labelling and transparency will enable end-consumer choice for ESG

Social

- Native Title Agreement signed in November 2021
- Social licence fundamental to sustainable, long-term operation

Corporate Governance

- Best-in-class reporting aligned with GRI1, TCFD2 and SASB3 standards
- First sustainability report released in November 2021

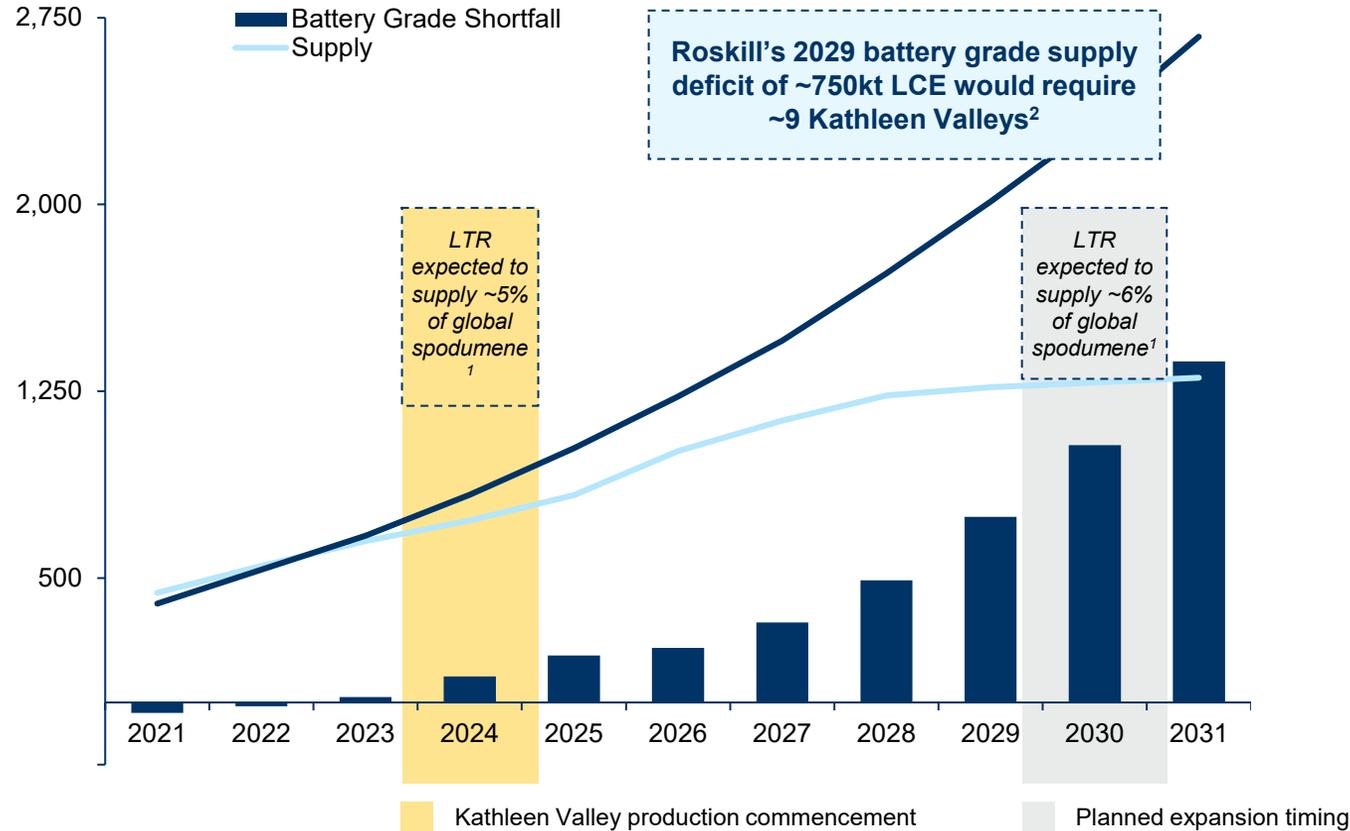


Lithium Market Dynamics

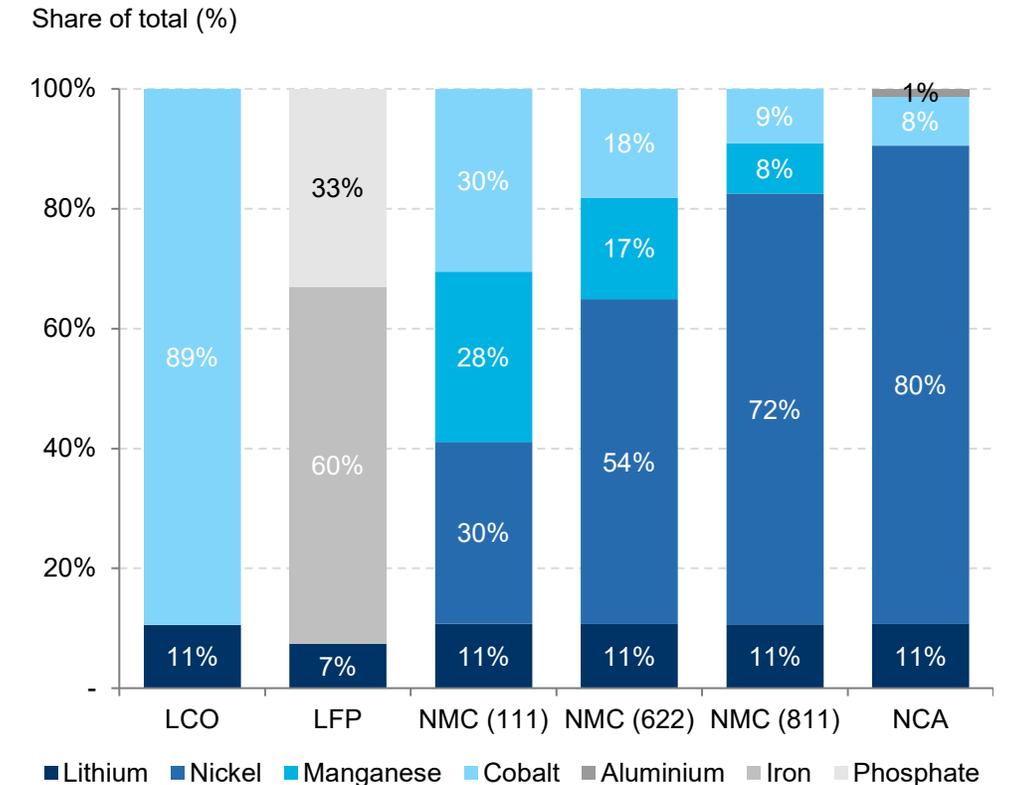


Forecast lithium market deficit is expected to continue and grow. There is currently no substitute for lithium in Li-ion cathodes.

Global lithium market balance (battery grade), 2021-31, kt LCE



Metals content of Li-ion battery cathodes by mass³



Source: UBS, Roskill, MineSpans, WoodMac

1. Liontown expected to supply 5% of global spodumene and 4% of global lithium in 2024 and Liontown expected to supply 6% of global spodumene and 4% of global lithium in 2029 (based on Roskill forecasts)

2. Kathleen Valley 2029 production of ~681kdmmt SC6.0 equivalent to ~86kt LCE (converted at 7.93t SC6.0 = 1t LCE)

3. WoodMac, shown exclusive of oxide.



Leading Project Financials and Capital Intensity

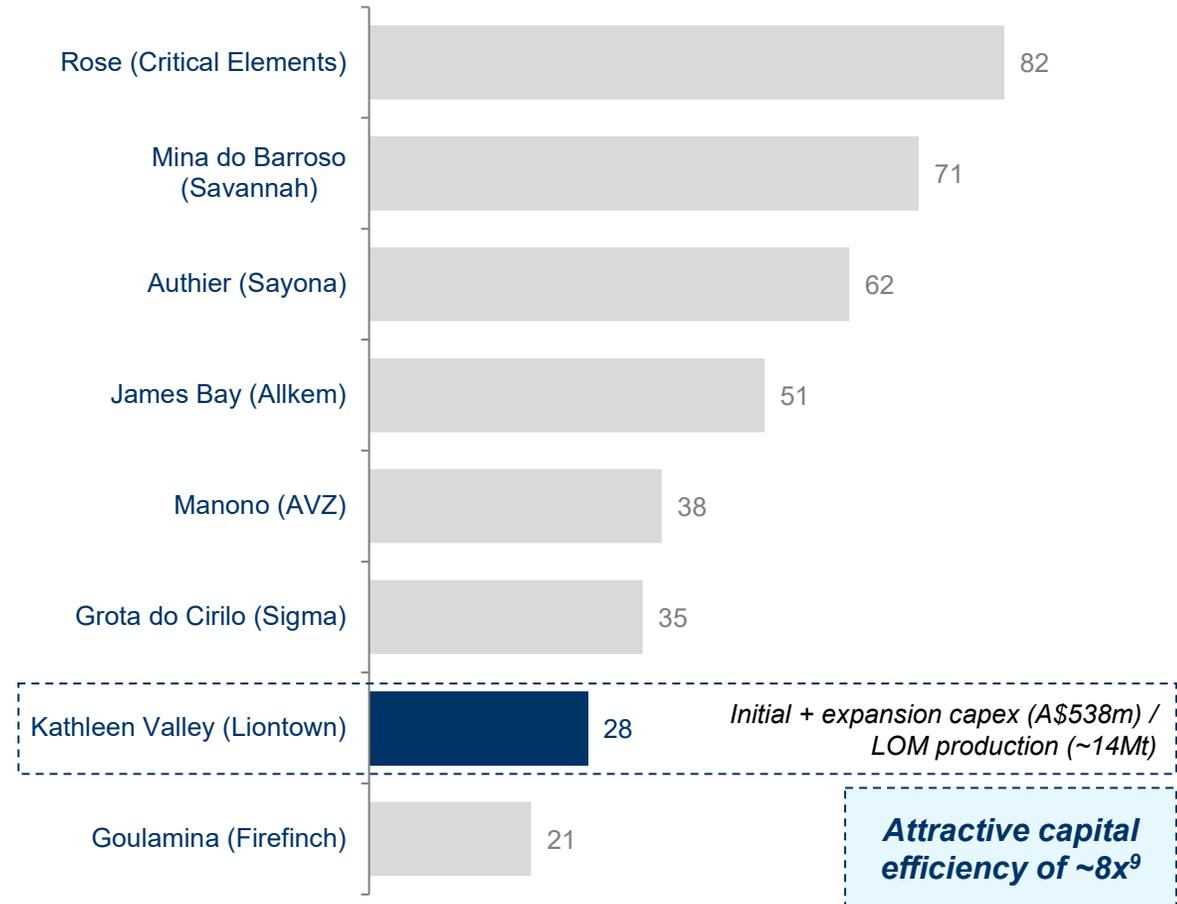
Kathleen Valley delivers compelling economics and is one of lowest capital intensity development projects globally

November 2021 DFS Key Metrics

Based on April 2021 MRE – 156Mt @ 1.4% Li₂O and 130ppm Ta₂O₅

NPV¹ (post-tax)	A\$4.2B
IRR / Payback	57% / 2.3 years
SC6 Opex Years 1-5² (FOB)	US\$402/dmt US\$314/dmt (excl. royalties)
SC6 Opex Years 1-10² (FOB)	US\$417/dmt US\$319/dmt (excl. royalties)
AISC Years 1-10³ (FOB)	US\$452/dmt
Avg. SC6 Price Years 1-10⁴ (FOB)	US\$1,287/dmt (Based on Roskill price)
Capex⁵	A\$473M (incl. \$107M Pre-production)

Capital Intensity of Comparable Projects (US\$/t)^{6,7,8}



1. Real discount rate of 8%, AUD:USD of 0.73. 2. Operating costs include all mining, processing, transport, state and private royalties, freight to port, port costs and site administration and overhead costs (includes tantalum credits), exclude sustaining capital. 3. All in Sustaining Capital Costs (AISC), as referred to in this announcement, are cash operating costs including all mining, processing, transport, freight to port, port costs, site administration/ overhead costs, tantalum credits, state and private royalties and sustaining capital. 4. Based on Roskill November 2021 price forecasts. 5. Project totals exclude working capital, finance costs, sustaining capital and corporate costs associated with project development. 6. Assumes AUD:USD of 0.73 and CAD:USD of 0.81. 7. Based on total LOM production, adjusted to 6.0% spodumene concentrate grade. 8. Refer to Appendix for Peer Comparison information source. 9. Capital efficiency calculated as NPV of \$4.2B divided by initial + expansion capital of \$538m.



Delivering in a Challenging Environment

Liontown is proactively managing the Covid-19 environment and well-positioned to develop Kathleen Valley on both time and budget



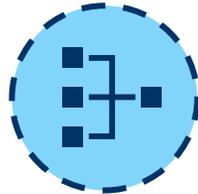
People

- Early engagement with people that want to be part of the lithium industry
- Designing a camp and roster conducive to attracting staff
- Strong interest from mining contractors
- **Recruitment process underway multiple new starters in January**



Permitting

- Permit preparation well-advanced having been progressed alongside the DFS
- Multiple permits submitted for approval whilst remainder are in final stages of preparation or submitted for review
- Strong support and involvement from the Native Title Holders, the Tjiwarl people
- **Permitting on track to be finalised mid-CY2022**



Systems

- Building-out internal functions
- Established framework and policies to dynamically manage operations
- Enterprise software for accounting, project controls, warehousing and plant maintenance in place by mid-CY2022
- **Systems are key to the 'explorer to operator transition'**



Engineering

- Ordering critical long-lead items such as the SAG mill
- Breaking plant works into smaller packages to expand the contractor base
- Designing the process plant structural steel for 'flatpack' construction
- **Advancing discussions with key equipment and works tenders**



Robust Project Fundamentals – DFS NPV Sensitivity Analysis

Kathleen Valley is a long-life, world-class project that can withstand sensitivities

SC6.0 Recoveries

- DFS Assumption – 78%
- ↑ 85% – NPV: A\$4.8B
- ↓ 70% – NPV: A\$3.6B

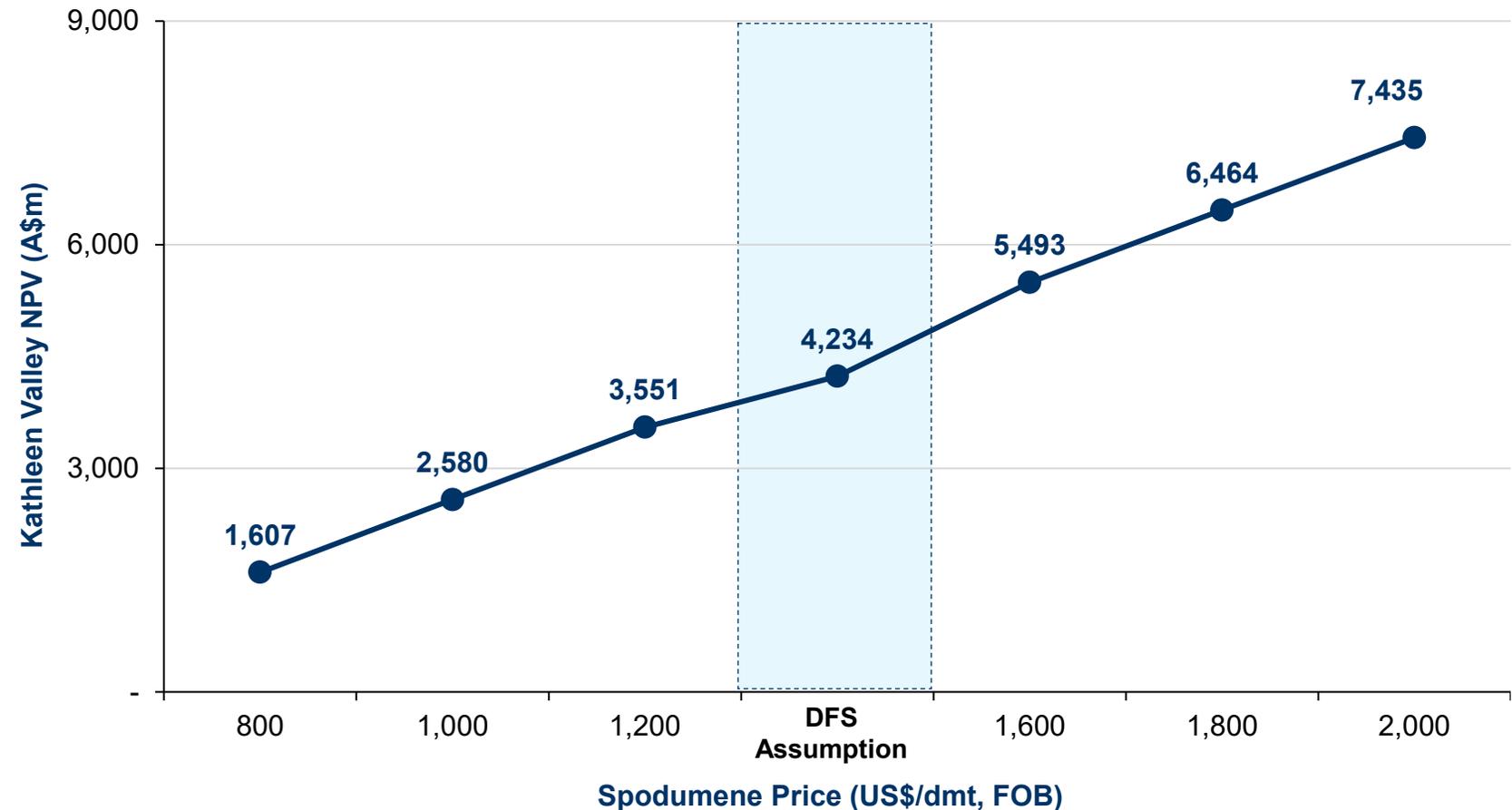
Operating Costs

- DFS Assumption – US\$327/dmt LOM¹
- ↑ -15% – NPV: A\$4.5B
- ↓ +15% – NPV: A\$3.9B

Capex and Sustaining Capital

- DFS Assumption – A\$988m LOM
- ↑ -15% – NPV: A\$4.3B
- ↓ +15% – NPV: A\$4.2B

Kathleen Valley NPV at Various Spodumene Prices



2024 Production Target

Project milestones on schedule



DFS
complete

Q4 2021



A\$450m
equity
raising

Q4 2021



First
offtake
signed

Q1 2022

Liontown positioned to deliver project on schedule



FEED/
FID

Q2 2022



Early
works/
design

Q4 2022



Construction
complete

Q4 2023



Commission

Q1 2024



Production

Q2 2024



Continued assessment of growth and downstream processing options

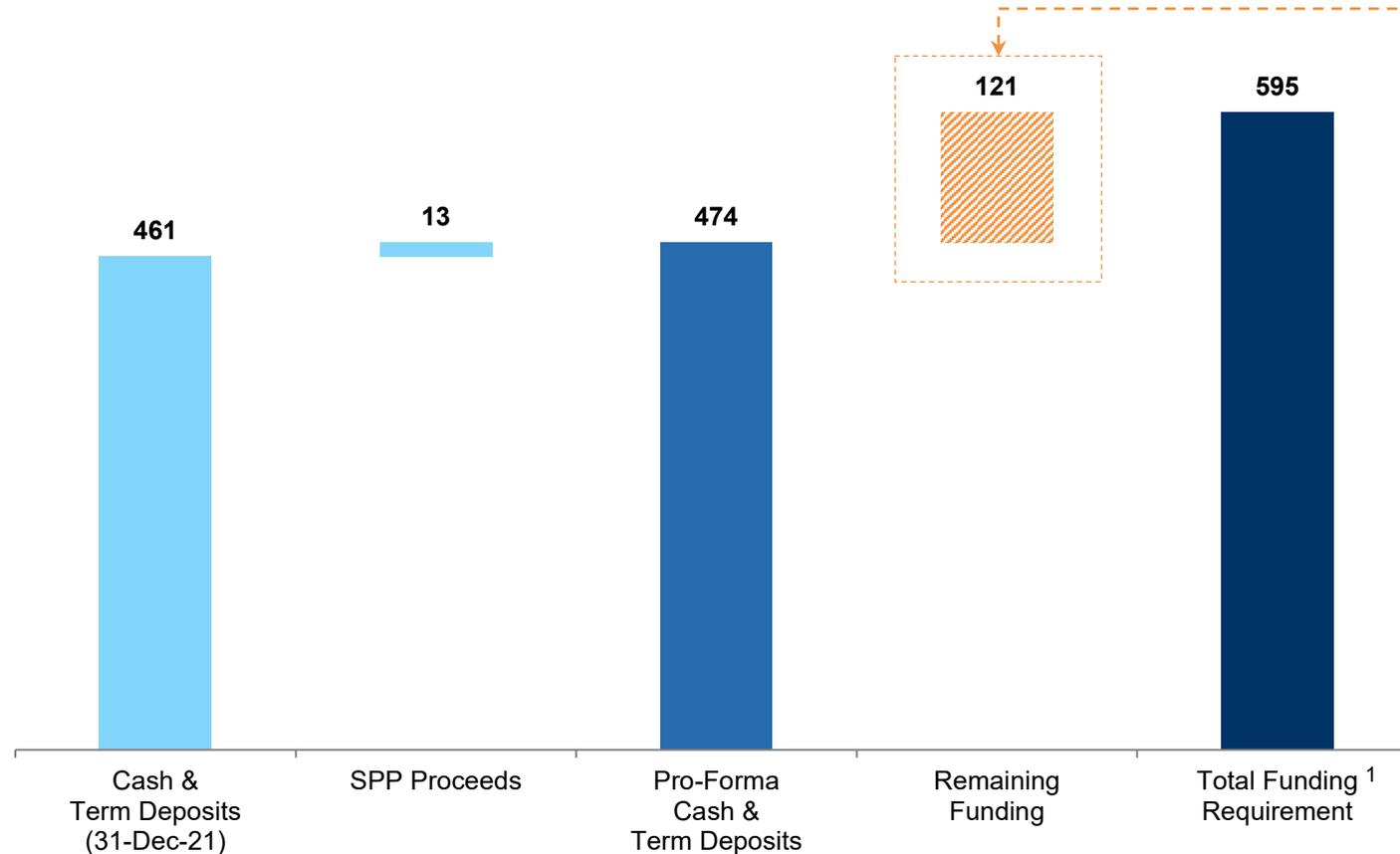




Project Funding Update

Liontown has secured approximately 80% of its total funding requirement for Kathleen Valley

Funding Bridge to Kathleen Valley First Production (A\$m)



Liontown is well-advanced on funding discussions for the remaining A\$121m

- ✓ Traditional bank debt from tier 1 banks on competitive terms
- ✓ Due diligence underway, following receipt of term sheets from multiple banks with indications of size well above the remaining funding amount of A\$121m
- ✓ Alternative financing options, including, customer pre-payments / financing facilities, streaming options (if required or if terms are more attractive than traditional debt)

Forecast cash flows from Kathleen Valley are expected to be sufficient to fund the additional capital requirement for the future 4Mtpa expansion in 2029

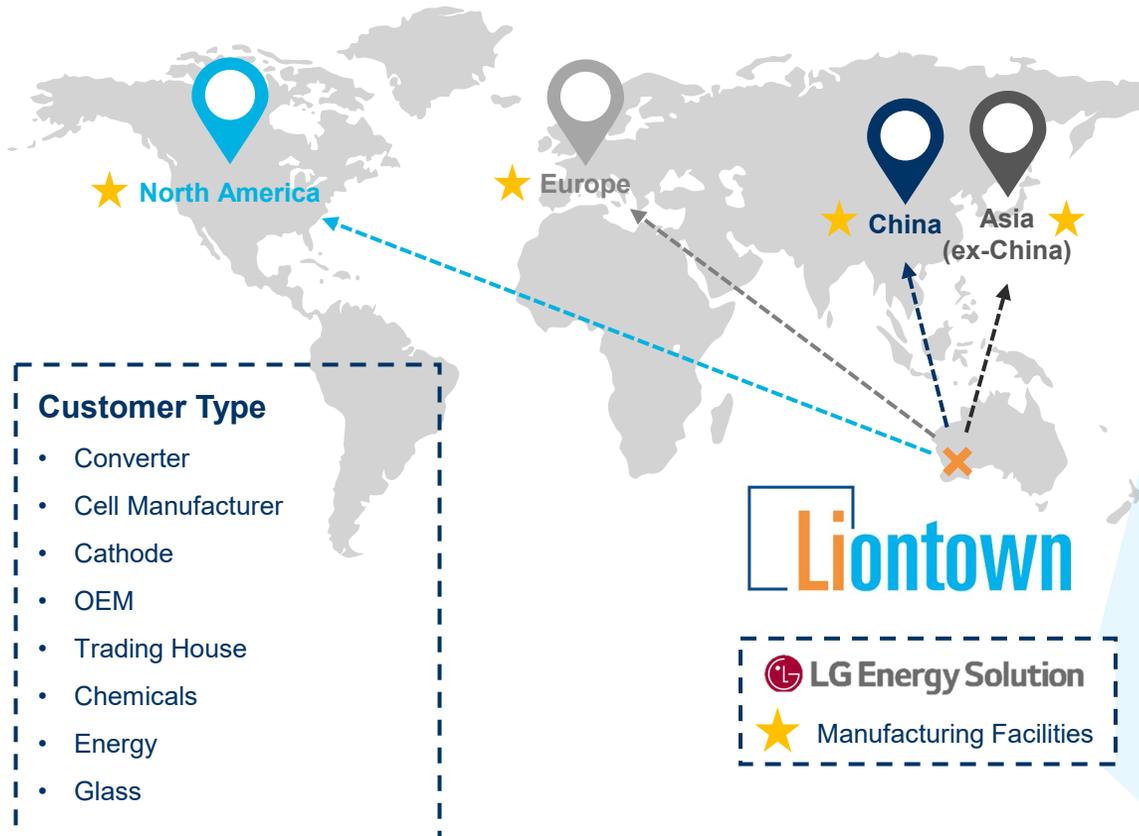
1. According to Page 8 of Liontown's 'Equity Capital Raising Presentation', released to the ASX on 1 December 2021.

Well Advanced Offtake Negotiations

Foundational offtake agreement with LG Energy Solution sets the base for securing further, high quality offtake partners



Target Customers & End Markets



LG Energy Solution - Overview



Established company with significant operating scale

- **Market capitalisation of US\$98bn** (January 27, 2022)
- Revenue of US\$10.5bn (2020), forecast to grow to US\$27.2bn (2024)
- Employ more than 20,000 people



Leading global manufacturer of battery technologies

- **Second largest battery manufacturer globally**
- Develop a range of Advanced Automotive, Mobility & IT and ESS Batteries
- Headquartered in South Korea, facilities in USA, China and Europe



Tier 1 customers

- **Supplier for 13 of the top 20 global automotive brands**
- Automotive customers include **Hyundai, Stellantis, General Motors** and **Volkswagen**
- Further supply batteries for NASA spacesuits, drones and ships



Downstream Processing Opportunity

The updated DSS confirms: Value maximizing pathway for Liontown is a staged -build, integrated mining, processing and refining operation producing Lithium Hydroxide Monohydrate (“LHM”)



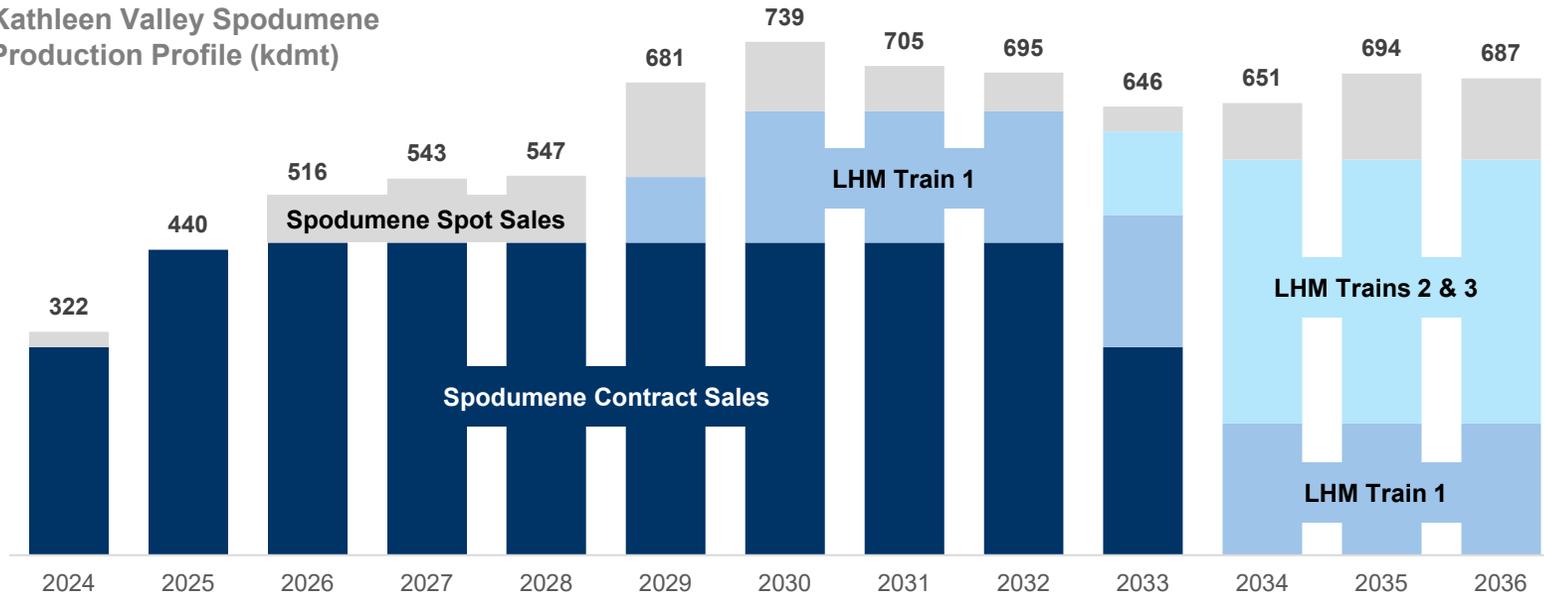
The Integrated Project has the potential to make Liontown the 3rd largest supplier of LHM in the world (based on 2031 Roskill LHM projections) producing ~86ktpa LHM



Refinery will be included in our Climate Strategy Roadmap and benefit from the energy renewables developed during the operation of KV reducing its carbon footprint



Kathleen Valley Spodumene Production Profile (kdmmt)



Value Maximising Pathway

- ✓ Exposure to higher margin end-product more quickly
- ✓ Capture highly favourable market environment
- ✓ Unlocks additional offtakers (particularly OEMs) with potential for nearer-term discussions
- ✓ Value maximising pathway with significant NPV value upside
- ✓ Liontown progressing to pre-feasibility study phase for downstream opportunity

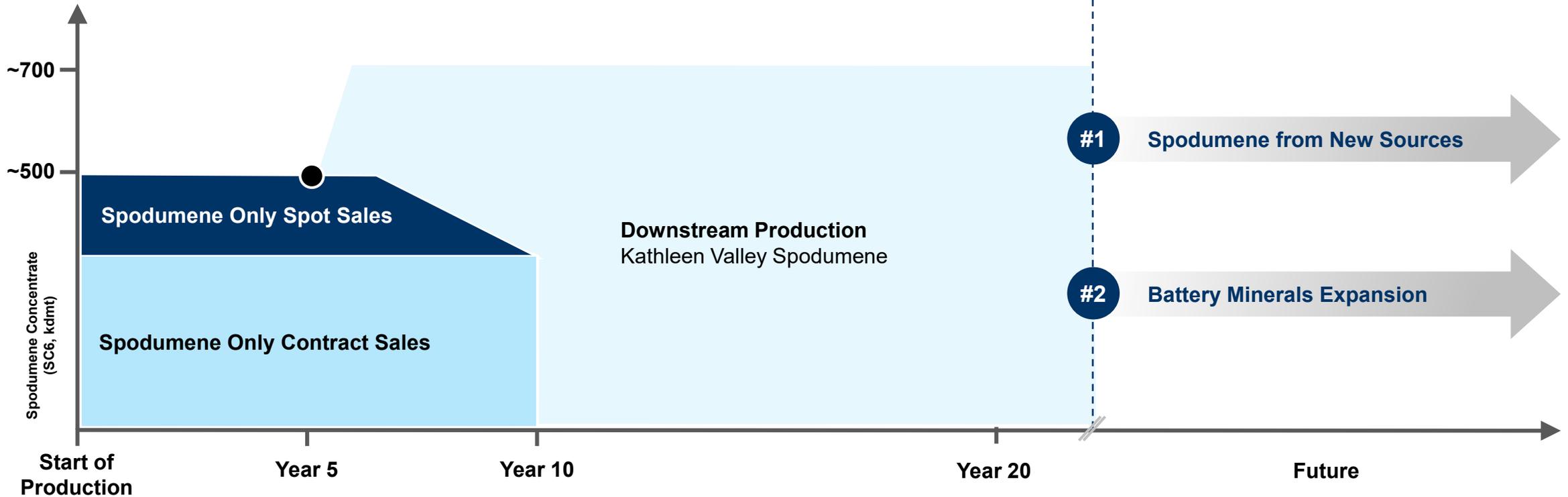
Liontown's Long-Term Strategy

Liontown is planning for the future



Kathleen Valley Spodumene

Optionality for spodumene or processed lithium sales based on market conditions



Liontown's Investment Proposition

Tier 1 Asset



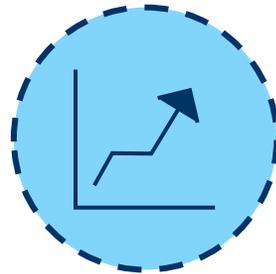
Kathleen Valley is a world-class lithium deposit, with exceptional economics and growth optionality

ESG-Positive



Net zero trajectory, with a climate strategy roadmap in place targeting net zero emissions by 2034

Timed To Perfection



Significant supply deficits forecast to emerge from 2024, which is expected to align with start of production at Kathleen Valley

Integrated Opportunity



Integrated, long-term lithium producer, positioned to capture value from mine to end-use in the electric vehicle market

Near Term Priorities

- 1 Continue to execute attractive offtake agreements to support FID
- 2 Progress and finalise project funding
- 3 Continue to secure long-lead items and permitting
- 4 Appoint industry leading EPCM contractor to spearhead Kathleen Valley development
- 5 Continue to develop downstream strategy



Thank You

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Appendix

Kathleen Valley Project
Peer Benchmarking



Peer Comparison Information – Capital Intensity

Company	Project	Stage	Capital Cost (US\$m ¹)	LOM Spodumene Production (Mt)	Grade (%)	LOM Capital Intensity (US\$/t) ²	Information Source
Liontown Resources	Kathleen Valley – DFS	Development	393	14.0	6.0	28	ASX Announcement – Kathleen Valley DFS confirms Tier-1 global lithium project, 11 November 2021
Critical Elements	Rose	DFS	276	3.9	5.2 ³	82	Website – https://www.cecorp.ca/en/projects/rose-lithium-tantalum/
Savannah Resources	Mina do Barroso	Exploration	136	1.9	6.0	71	LSX Announcement – Scoping Study for the Mina do Barroso, 14 June 2018
Sayona	Authier	DFS	97	1.6	6.0	62	ASX Announcement – Revised Authier DFS Shows Boost to Profitability, 11 November 2019
Allkem	James Bay	DFS	286	6.0	5.6	51	ASX Announcement – James Bay Feasibility Study Results, 21 December 2021
AVZ Minerals	Manono	DFS	546	14.5	6.0	38	ASX Announcement – AVZ Delivers Highly Positive DFS for Manono Project, 21 April 2020
Sigma	Grota do Cirilo	Development	71	2.0	6.0	35	TSX Announcement – Investor Presentation, 8 September 2021
Firefinch / Ganfeng	Goulamina	DFS	325	15.6	6.0	21	ASX Announcement – Goulamina Lithium Project Update to DFS, 6 December 2021

1: FX assumption of 0.73

2: Adjusted for comparable grade of 6.0%

3: Weighted average



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