

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, Liontow n 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;
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- 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: I TR

Market Cap.

Share price (\$/s)

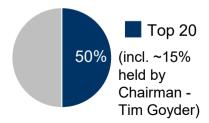
A\$3.2bn

A\$1.46

Shares on issue¹

Major shareholders

2,192m



Cash and term deposits²

A\$474m

Research coverage









^{1:} Includes SPP shares of 7.8m due to be 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



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

Steven Chadwick

Partner at Deloitte

Anthony Cipriano



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



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



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

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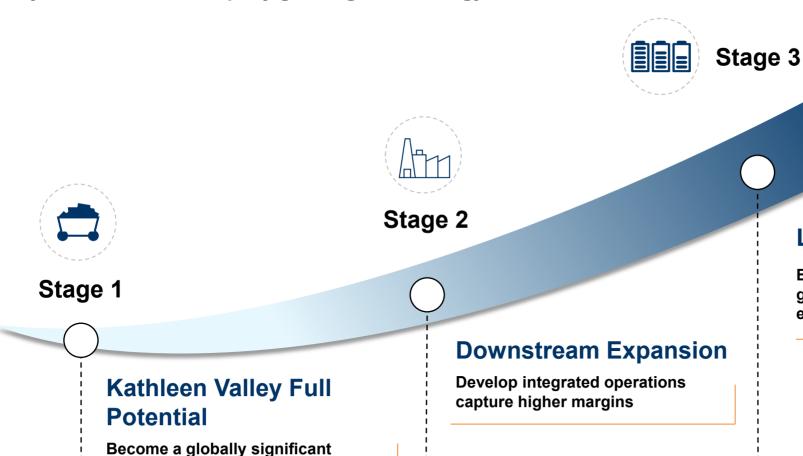
Tony Ottaviano

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

supplier of spodumene



Liontown Full Potential

Expand portfolio through organic growth, value accretive M&A and exposure to the circular economy

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

Social

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

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

Corporate Governance

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

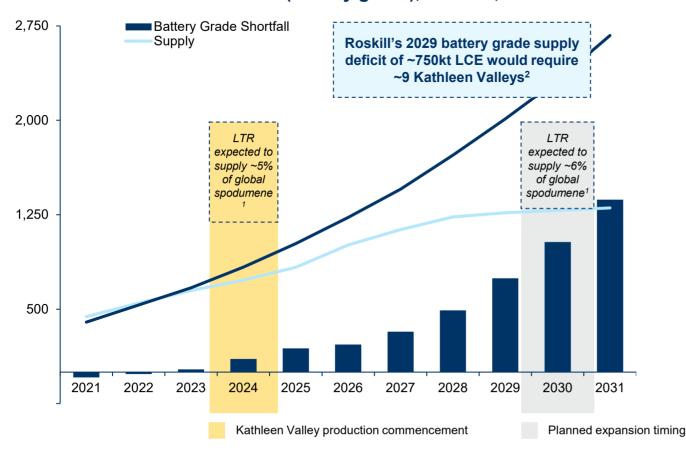
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Lithium Market Dynamics

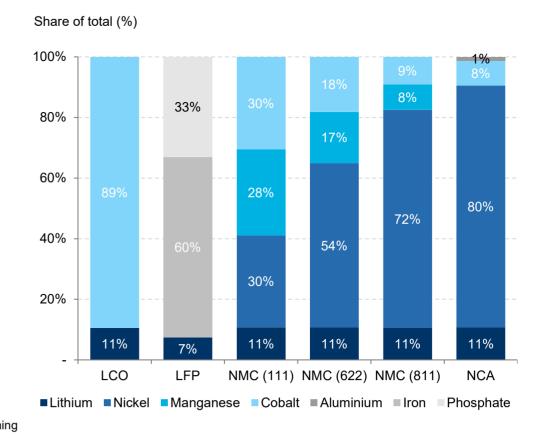


Forecast lithium market deficit is expected to continue and grow. There is currently no substitute for lithium in Li-ion cathodes.

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 ~681kdmt 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

Li

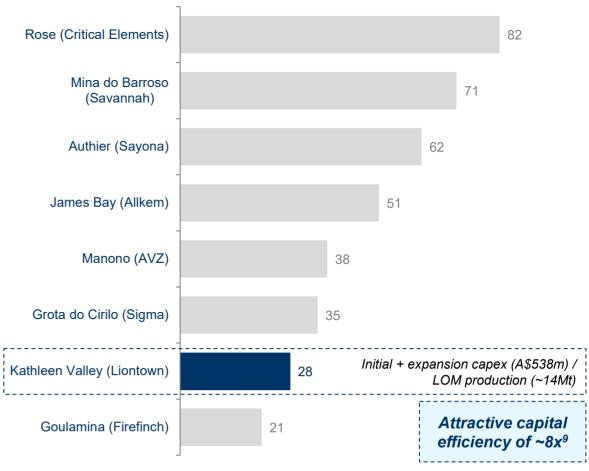
Kathleen Valley delivers compelling economics and is one of lowest capital intensity development projects globally

November 2021 DFS Key Metrics

Based on April 2021 MRE – 156Mt @ 1.4% Li_2O and 130ppm Ta_2O_5

•	
NPV¹ (post-tax)	A\$4.2B
IRR / Payback	57% / 2.3 years
SC6 Opex Years 1-5 ² (FOB)	US\$402/dmt US\$314/dmt (excl. royalties)
SC6 Opex Years 1-10 ² (FOB)	US\$417/dmt US\$319/dmt (excl. royalties)
AISC Years 1-10 ³ (FOB)	US\$452/dmt
Avg. SC6 Price Years 1-10 ⁴ (FOB)	US\$1,287/dmt (Based on Roskill price)
Capex ⁵	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



- 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

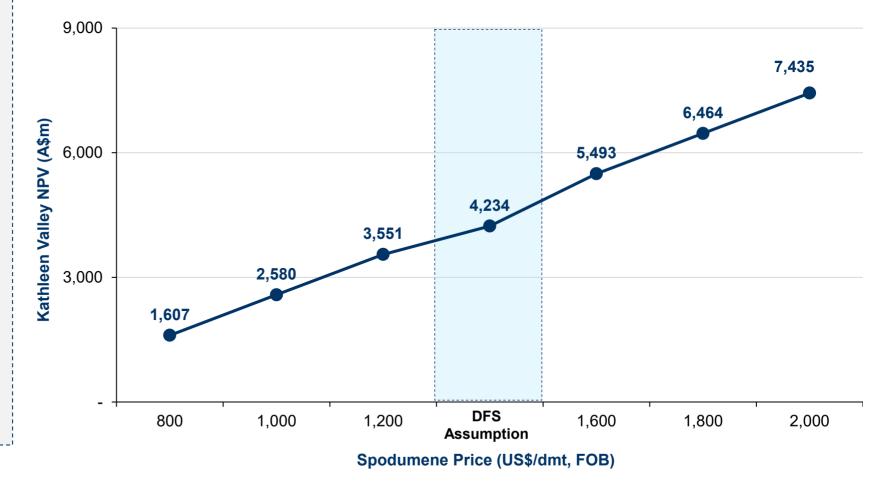
Capex and Sustaining Capital

• DFS Assumption – A\$988m LOM

15% – NPV: A\$4.3B

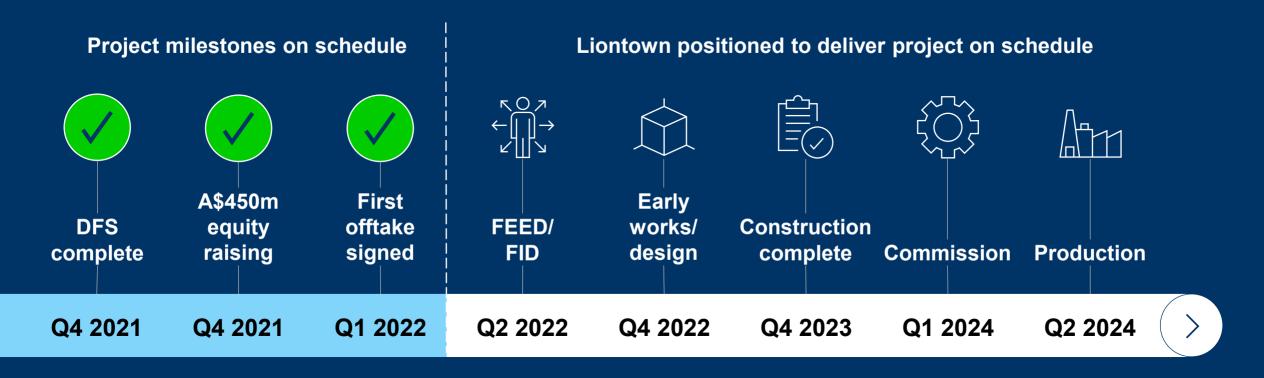
+15% - NPV: A\$4.2B

Kathleen Valley NPV at Various Spodumene Prices



2024 Production Target





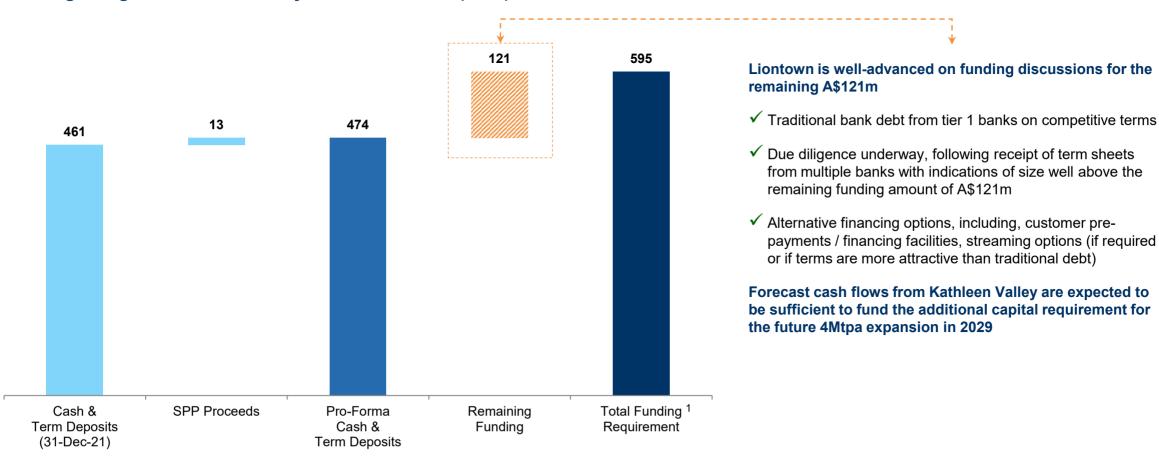
Continued assessment of growth and downstream processing options

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)



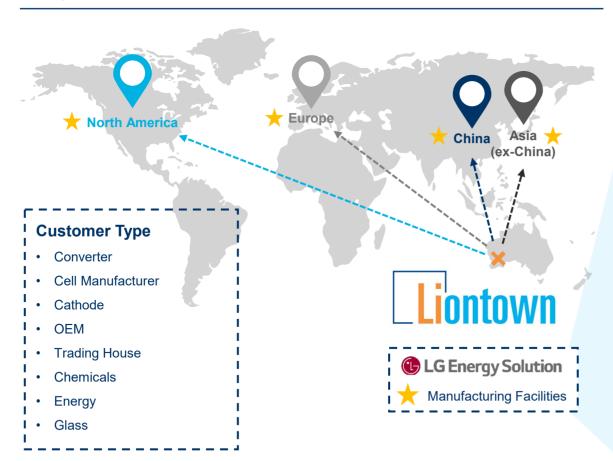
^{1.} According to Page 8 of Liontown's 'Equity Capital Raising Presentation', released to the ASX on 1 December 2021.

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

Source: FactSet, LG Energy Solution website

Downstream Processing Opportunity

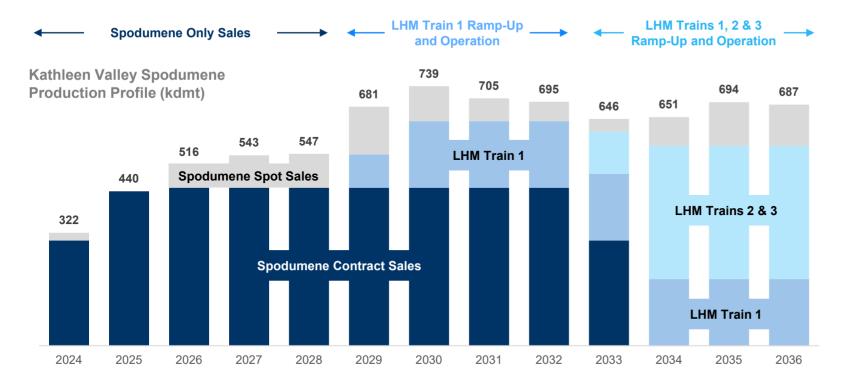
The updated DSS confirms: Value maximizing pathway for Liontown is a staged-build, integrated mining, processing and refining operation producing Lithium Hydroxide Monohydrate ("LHM")



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





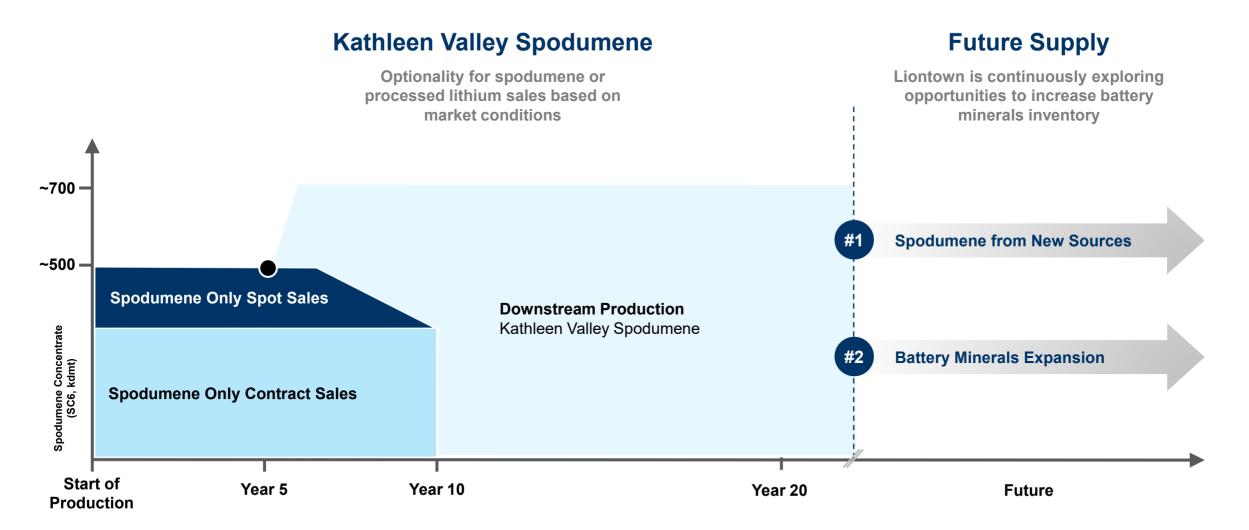
Value Maximising Pathway

- Exposure to higher margin endproduct 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 prefeasibility study phase for downstream opportunity

Liontown's Long-Term Strategy

Liontown is planning for the future





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 enduse in the electric vehicle market

Near Term Priorities

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

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