



Fast charging towards a low carbon future

Paydirt Presentation

ASX:LTR

APRIL 2022



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.

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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 Managing Director.



Agenda

01.

Investment
Highlights

02.

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and Strategy

03.

Lithium Market
Update

04.

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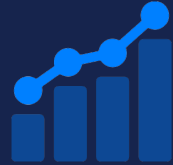
07.

Questions

Investment Highlights



Globally significant
Tier 1 project



Foundational
offtake agreements
with LG Energy
Solution and Tesla



Clear long-term
strategy with
material value
upside



ESG core
to strategy



Well capitalised
with strong
flexibility



Robust lithium
thematic, timed
to perfection



Experienced leadership
strongly aligned to
shareholders

Liontown Corporate Overview

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

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

Kathleen Valley

World-class scale and economics
156Mt @ 1.4% Li_2O & 130ppm Ta_2O_5
High-grade

Buldanía

15Mt @ 1.0% Li_2O
Resource upside

■ Perth

■ Kalgoorlie



Corporate Snapshot

(4 April 2022)

Market Cap

A\$4.6bn

Share price (\$/s)

A\$2.12

Shares on issue

2,192m

Major Shareholders



Cash and term deposits¹

A\$474m

Research coverage



1: Balance as of 31 December 2021, plus SPP proceeds of A\$13m.



Board & Management

Board of Directors



Tim Goyder
Chairman

+40 years (Mining Executive)
Founder of Chalice Mining



Anthony Cipriano
Lead Independent Director

+30 years (Chartered Accountant)
Former Senior Partner at Deloitte



Steven Chadwick
Non-Executive Director

+40 years (Metallurgist)
Director of Lycopodium Limited



Craig Williams
Non-Executive Director

+40 years (Geologist)
Founder and CEO of
Equinox Minerals



Jennifer Morris
Non-Executive Director

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



Tony Ottaviano
Managing Director

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



Executive Leadership



Tony Ottaviano | Managing Director

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



Adam Smits | Managing Director

+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 minerals for the rapidly growing clean energy market.

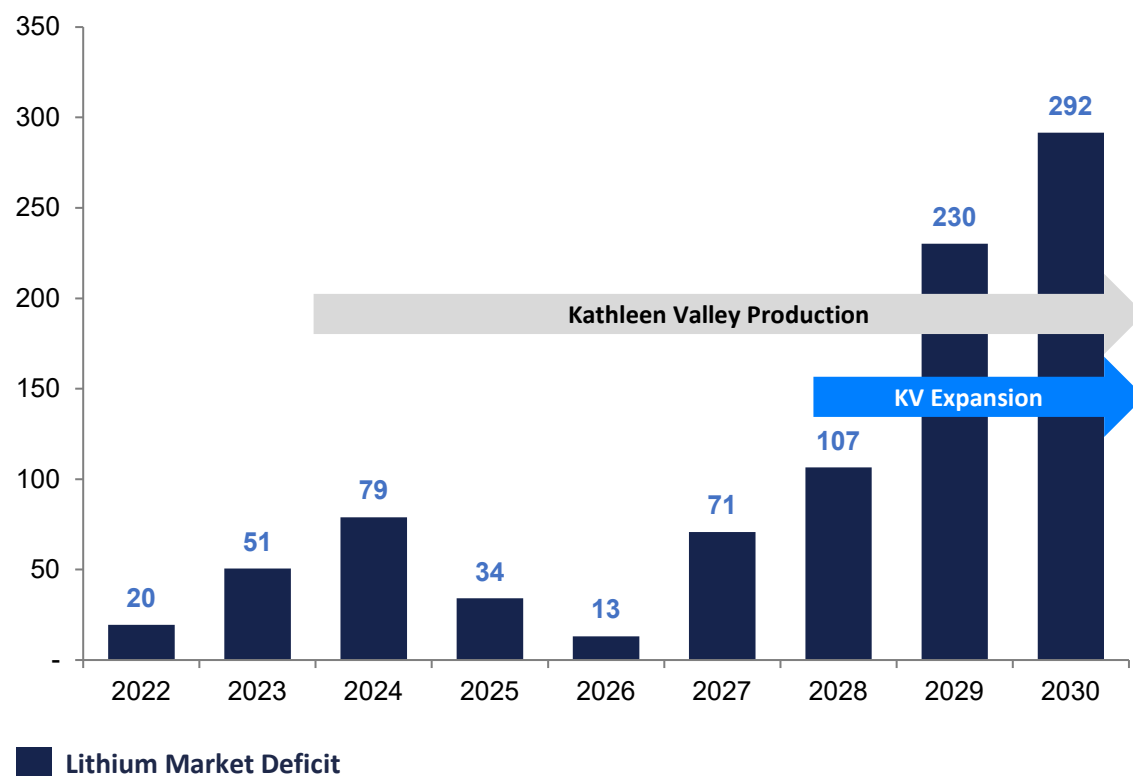




Lithium Market Update

Forecast lithium market deficit is expected to continue and grow out to 2030.
There is currently no substitute for lithium in Li-ion cathodes

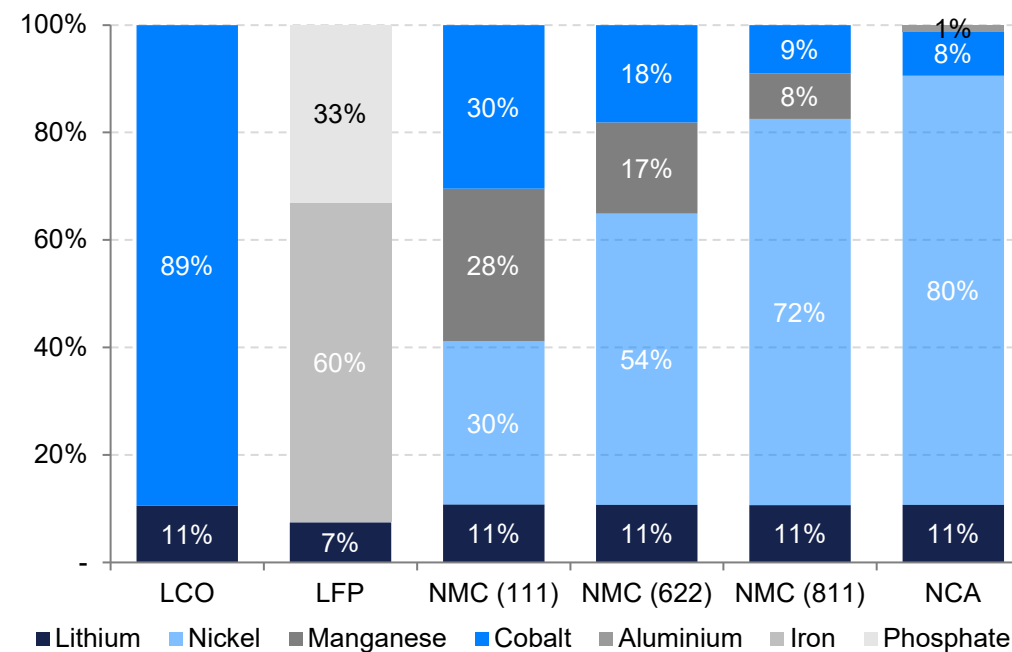
Global lithium market deficit, 2022-30, kt LCE



Source: Macquarie Research

Metals content of Li-ion battery cathodes by mass¹

Share of total (%)

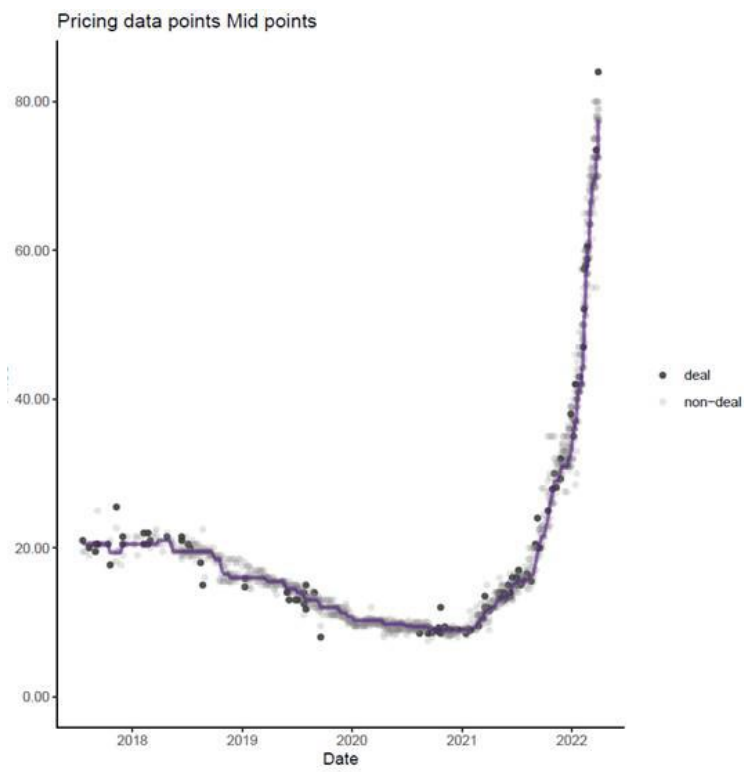


Source: WoodMac 1. WoodMac, shown exclusive of oxide

How do we price our product?

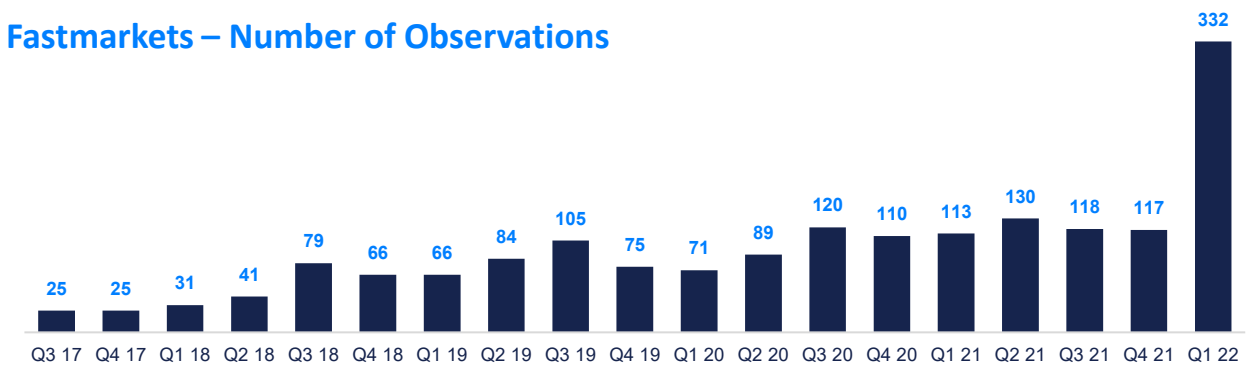
Liontown believes price transparency will continue to evolve and underpin reliable pricing for lithium hydroxide and spodumene

LiOH Seaborne Prices (Fastmarkets, US\$/kg)

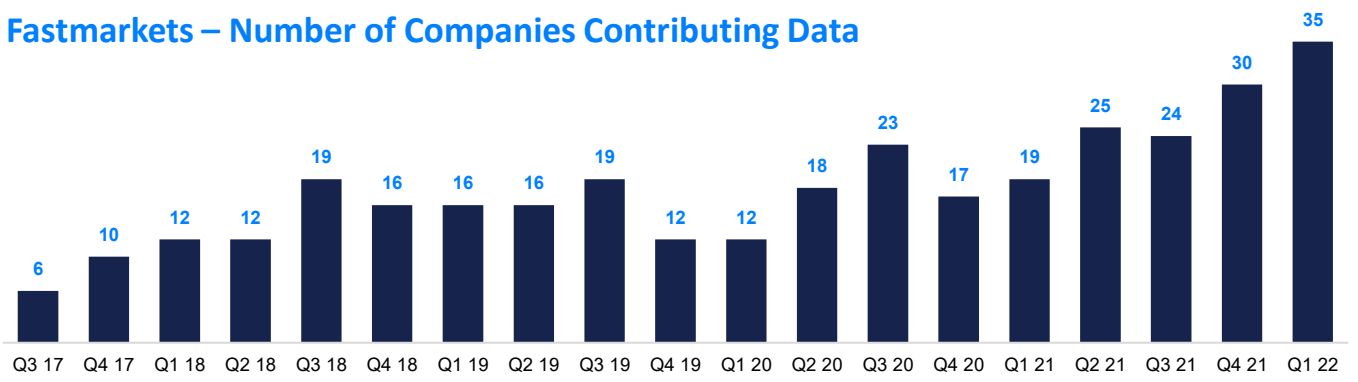


Source: Fastmarkets. 1. Fastmarkets in partnership with LME, CME and SGX.

Fastmarkets – Number of Observations



Fastmarkets – Number of Companies Contributing Data

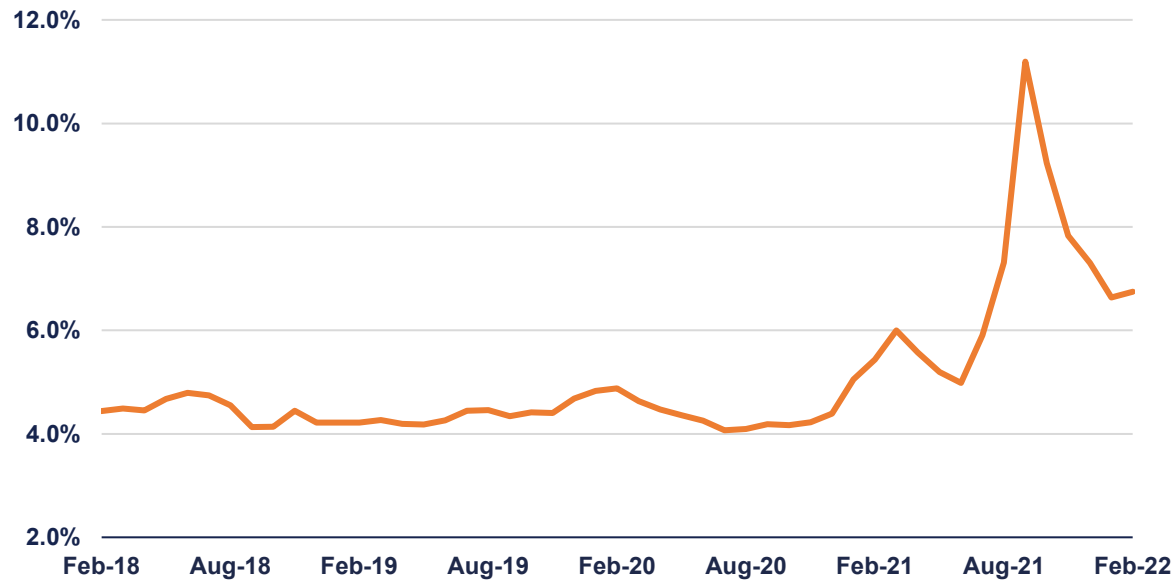




Spodumene Pricing Evolution

Spodumene producers are increasingly moving towards formula-based pricing for offtake contracts as a way of determining price and capturing greater margin share within the lithium supply chain.

Spodumene Price as % of Hydroxide Price¹

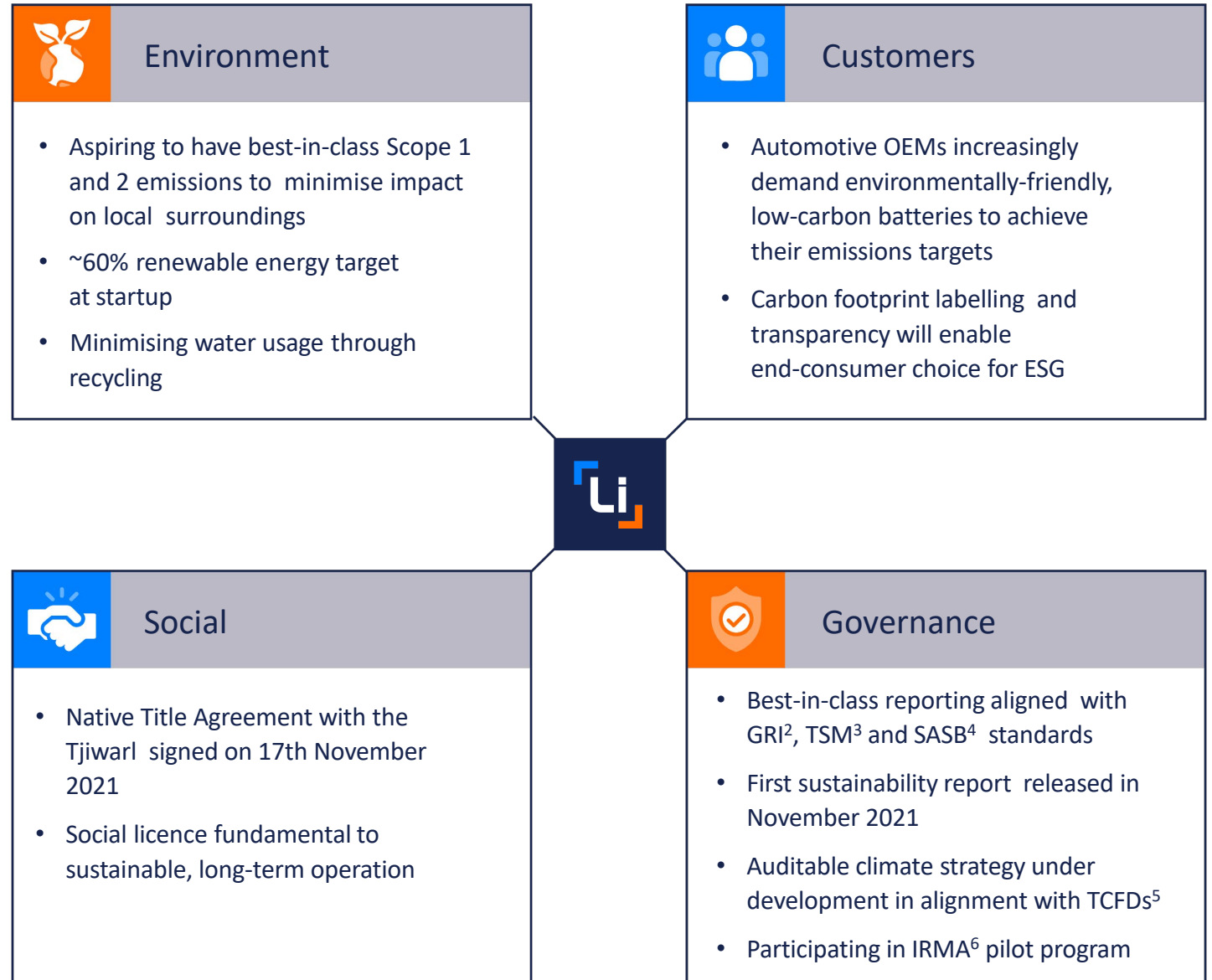


1. Monthly average of Fastmarkets' Spodumene min 6% Li₂O, spot price, cif China, \$/tonne index as a % of Fastmarkets' Lithium hydroxide monohydrate LiOH.H₂O 56.5% LiOH min, battery grade, spot price cif China, Japan & Korea, \$/kg (converted to \$/tonne)

- Spodumene prices have historically been 4.0% - 4.5% of the lithium hydroxide price
- This ratio increased to 11.2% in September 2021, sitting at 6.7% in February 2022
- Market volatility demonstrates search for a new equilibrium or reference
- There is an inherent relationship between the lithium hydroxide price and spodumene price, given spodumene is the key raw material input for lithium hydroxide
- A more liquid and transparent spodumene index will be developed over time, which more accurately reflects supply and demand
- Value chain "rent" will be reapportioned resulting in increased margin share to spodumene producers
- Until such an index is developed, Liontown's offtakes will be determined with a formula-based pricing structure

Kathleen Valley's ESG Focus

Aspirational
Net Zero¹ Timeline
of 10 Years



1. From start of production 2. GRI: Global Reporting Initiative 3. TSM: Towards Sustainable Mining 4. SASB: Sustainable Accounting Standards Board.
5. TCFD: Task Force on Climate Related Financial Disclosures. 6. IRMA: Initiative for Responsible Mining Assurance.

Kathleen Valley Project Update – DFS Economics

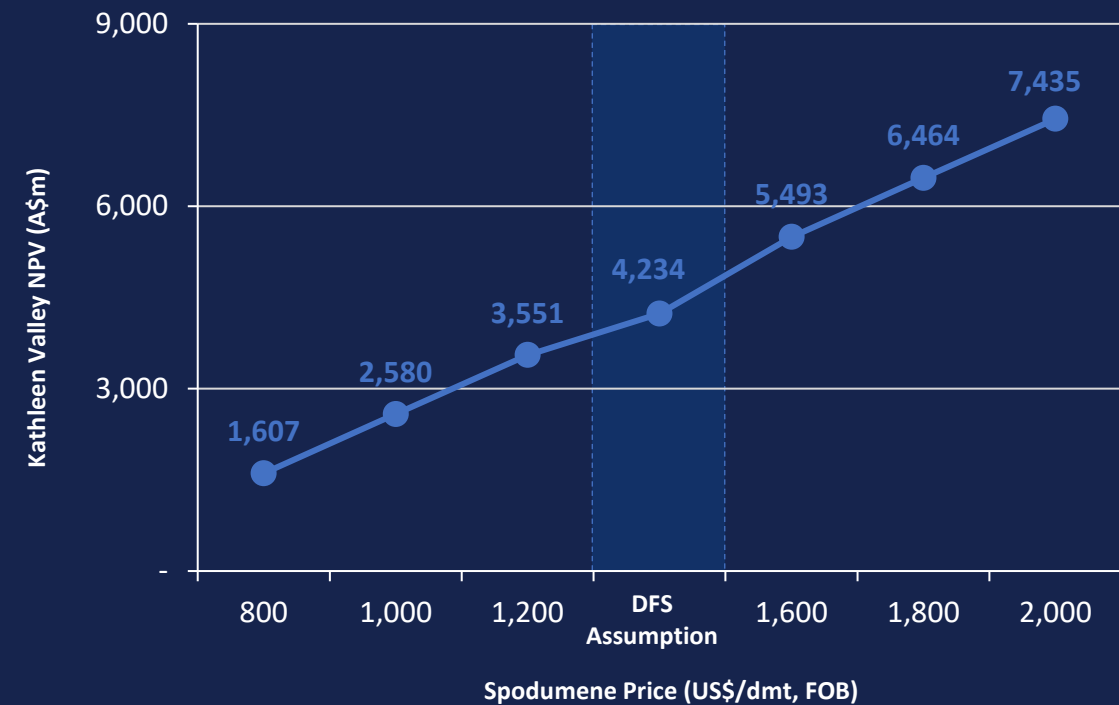
Kathleen Valley Project delivers compelling economics at prices well below current spot of US\$5000/dmt

November 2021 DFS Key Metrics

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

| | |
|---|--|
| NPV ¹ (post-tax) | A\$4.2B |
| IRR / Payback | 57% / 2.3 years |
| Product | 6.0% Spodumene Concentrate |
| 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) |
| Avg. SC6 Price Years 1-10 ⁴ (FOB) | US\$1,287/dmt (Based on Roskill price) |
| AISC Years 1-10 ³ (FOB) | US\$452/dmt |
| Capex ⁵ | A\$473M (incl. \$107M Pre-production) |

Kathleen Valley NPV at Various Spodumene Prices



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

Kathleen Valley Project – Underground Mining

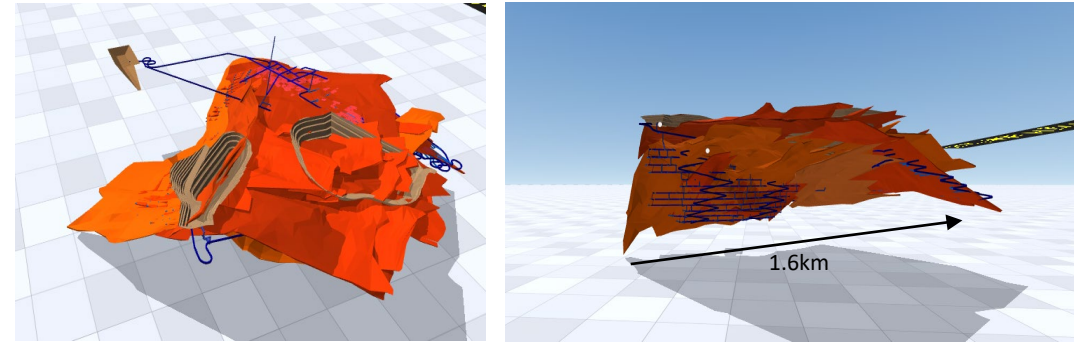
We have a bias to underground mining since it significantly enhances ore selectivity whilst minimizing our surface footprint.

Distinct Benefits of Kathleen Valley

- **Long hole opening stoping mining method** - well established and understood. Less than 4% of reserves will be room and pillar.
- Importantly, Kathleen Valley is **shallow relative to other underground mines** with high tonnes per vertical metre (100– 206 kt/m and a max depth of 450m)
- Ground conditions are **very conducive to UG mining** – Geotech analysis (backed by 5km of drilling) shows hard competent ground
- **Significant reduction in dilution**– ore/waste interface is clearly defined (grey versus white) - underground mining significantly more selective than open pit peers

Mining Costs

- Mining costs have been derived **from multiple tenders received based on the actual mine schedule**, not just unit rates applied to volumes
- Liontown's mining costs are A\$56/t ore mined (all in), and **supported by analysis of comparable projects**

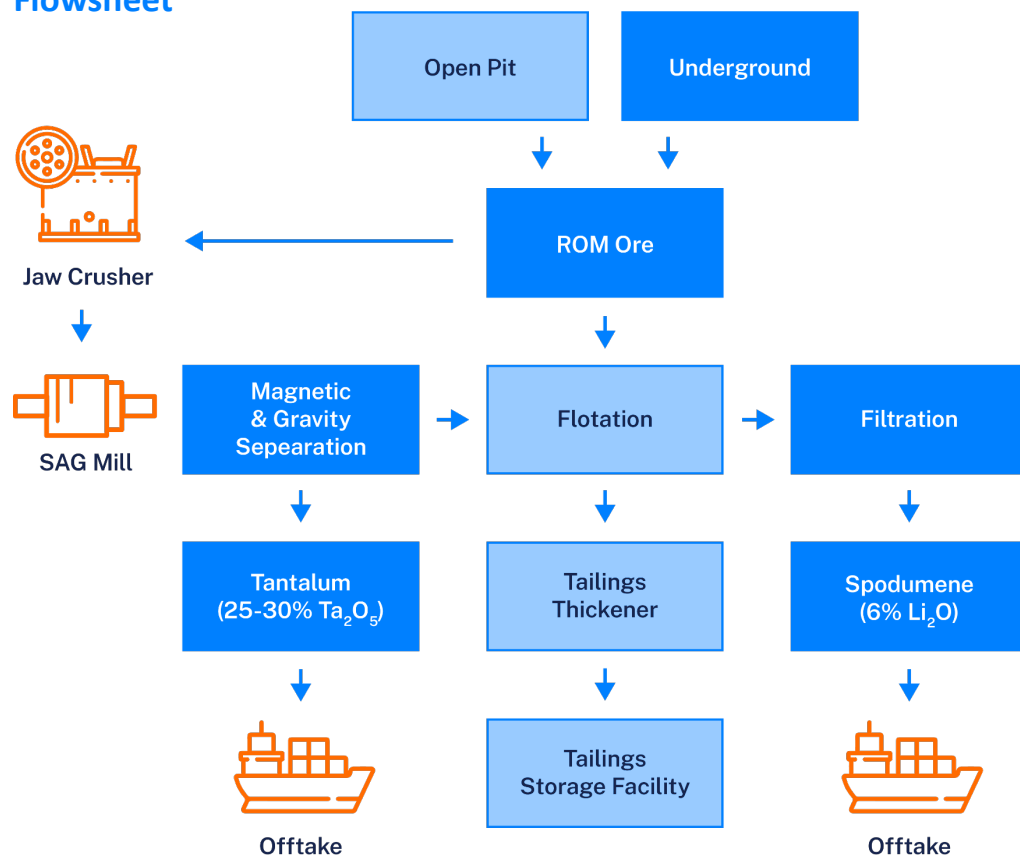




Processing Strategy

Conventional mining method, proven and reliable technology with a flowsheet grounded in evidence based design

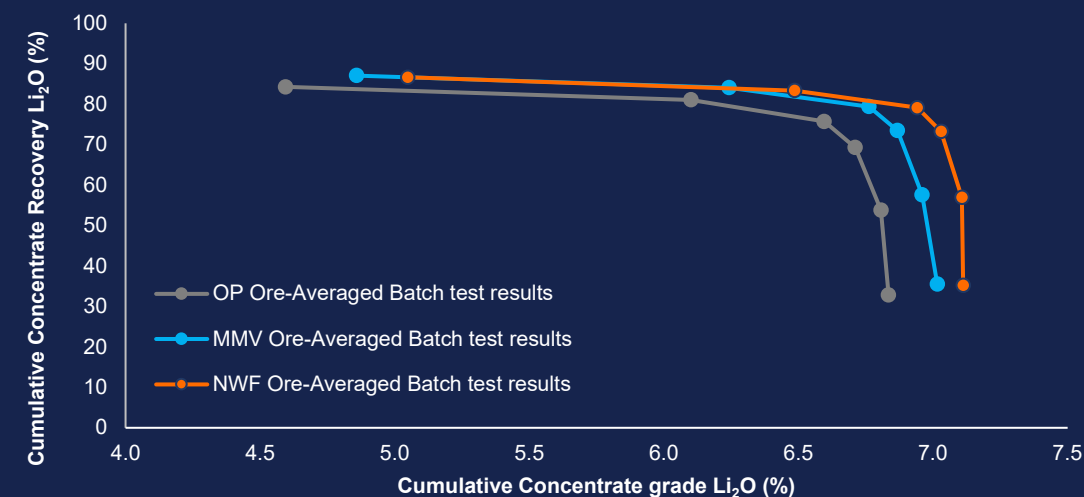
Flowsheet



WOF Processing Strategy

- Simple flowsheet – better operability and reliability
- KV ore has **outstanding metallurgical properties**
- Test work has repeatedly achieved **greater than 80% Lithia recovery** and **>6.0% concentrate grade**
 - Supported by **140+ staged float tests** and variability analysis
 - **78%** has been conservatively assumed for financial modelling

Cumulative Grade vs. Recovery – Avg. of multiple Batch Tests¹



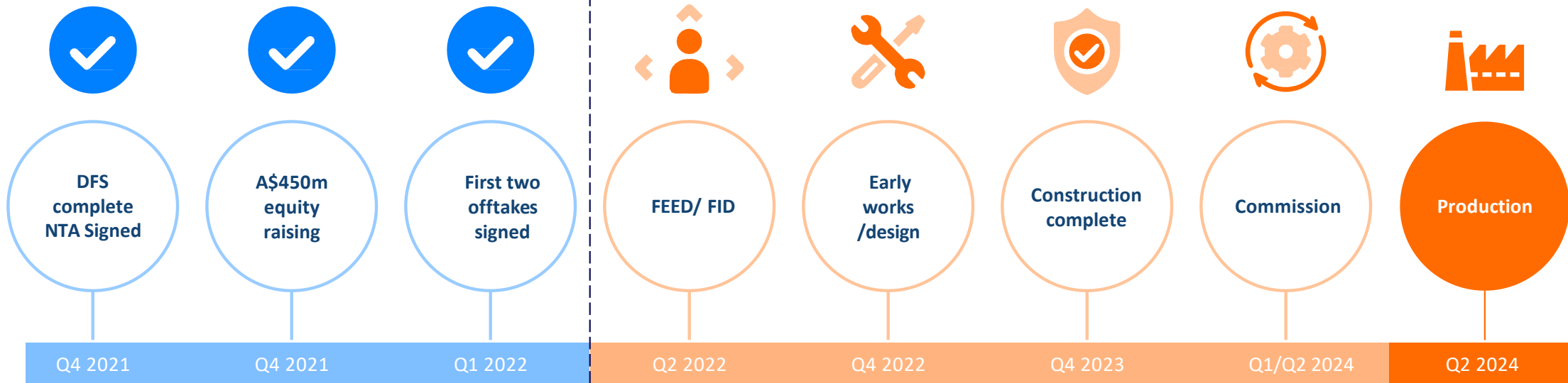
1. OP = Open Pit, MMV = Mount Mann Vertical, NWF = NorthWest Flats



2024 Production Target

PROJECT MILESTONES ON SCHEDULE

LIONTOWN POSITIONED TO DELIVER PROJECT ON SCHEDULE



Continued assessment of growth and downstream processing options

Kathleen Valley Project Update – FID is approaching



Remain on track for FID by end of 1H 2022 and early works in the 2H 2022



Detailed engineering commenced



Key contracts issued for tendering, with bids under review



Early procurement of long lead-time equipment underway



Project team expanding to plan, with new hires to support project ramp-up



Financing well advanced with domestic and international commercial banks



Offtakes in place with tier-1 customers for >50% of production over first five years



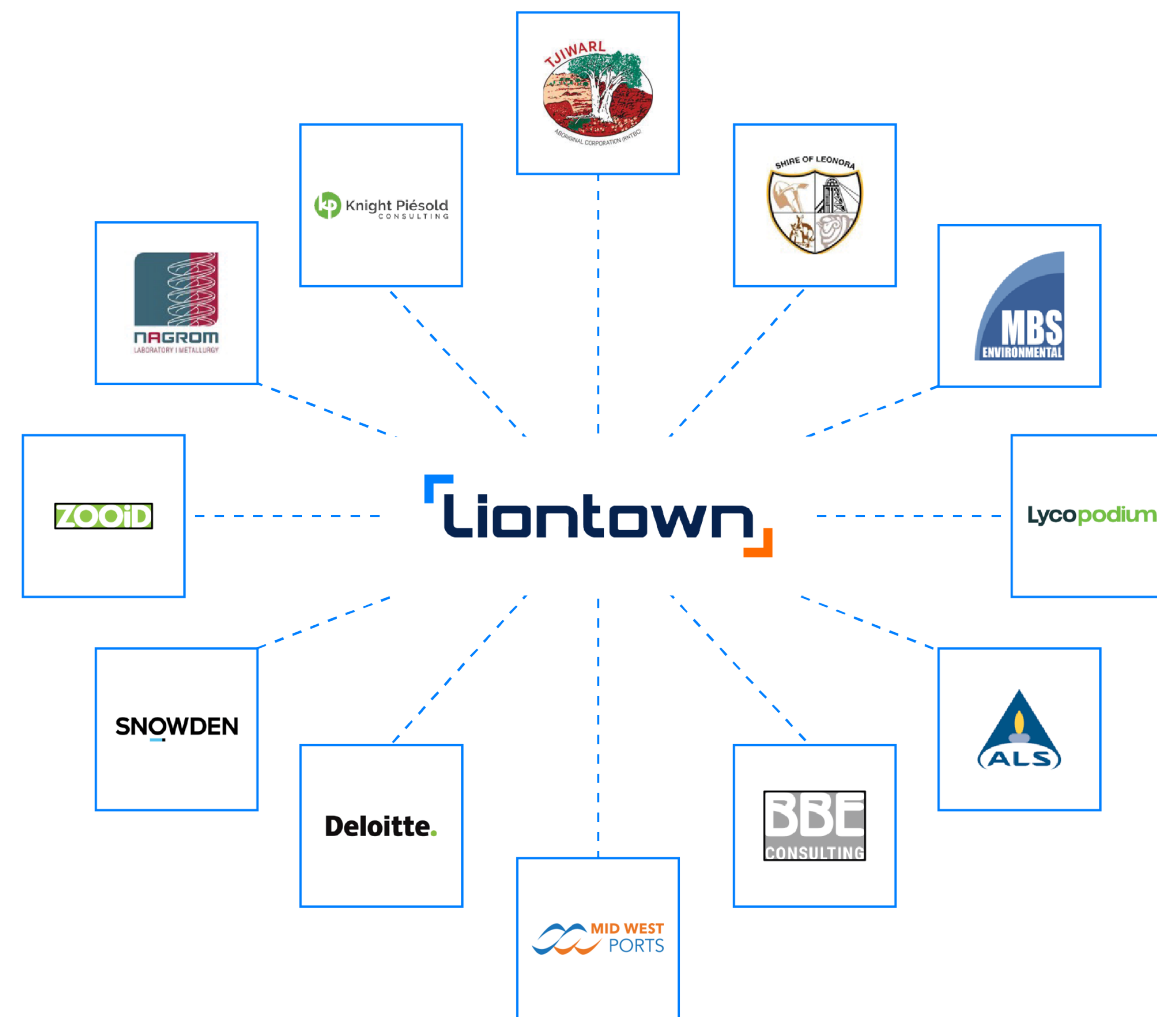
Kathleen Valley Project Update

– Procurement Update and Partnership Model

Working collaboratively with stakeholders and partners will help streamline development of Kathleen Valley Project and ensure on time and on budget delivery – Work with the best and deliver the best!

Detailed Design Procurement Status

| Responsibility | Estimated Total Packages | IFT Packages Issued | | Tender Packages Received | | PO Contract Award |
|--------------------------------|--------------------------|---------------------|--------|--------------------------|--------|-------------------|
| | | Planned | Actual | Planned | Actual | |
| Contracts | 3 | 0 | 0 | 0 | 0 | 0 |
| Civil | 2 | 1 | 0 | 0 | 0 | 0 |
| Structural | 1 | 1 | 1 | 1 | 1 | 0 |
| Platework | 1 | 0 | 0 | 0 | 0 | 0 |
| Mechanical | 59 | 25 | 30 | 18 | 24 | 6 |
| Piping | 11 | 0 | 0 | 0 | 0 | 0 |
| Electrical and Instrumentation | 25 | 0 | 1 | 0 | 0 | 0 |
| Total | 102 | 27 | 32 | 19 | 25 | 6 |



Tier 1 Offtake Partners Secured

Tesla and LG Energy Solution confirmed as cornerstone offtake partners

Target Customers & End Markets



Source: FactSet, LG Energy Solution website, Tesla Website

Our Offtake Partners



| Company overview | | |
|-----------------------|---|---|
| Description | Largest EV automotive company globally ¹ | Second largest battery manufacturer globally ¹ |
| Headquarters | | |
| Market capitalisation | US\$1,184bn | US\$84bn |
| Employees | 99,000+ | 20,000+ |
| Select key customers | | |
| Offtake key terms | | |
| Term | 5 years | 5 years + 5 year extension option |
| Quantum ² | 100ktpa Yr 1 150ktpa Yr 2 – 5 | 100ktpa Yr 1 150ktpa Yr 2 – 5 |
| Pricing | Formula-based mechanism referencing market prices for lithium hydroxide | |

Source: FactSet at 16 March 2022, LG Energy Solution and Tesla; 1. By market capitalisation; 2. Dry basis.

Downstream Processing Opportunity

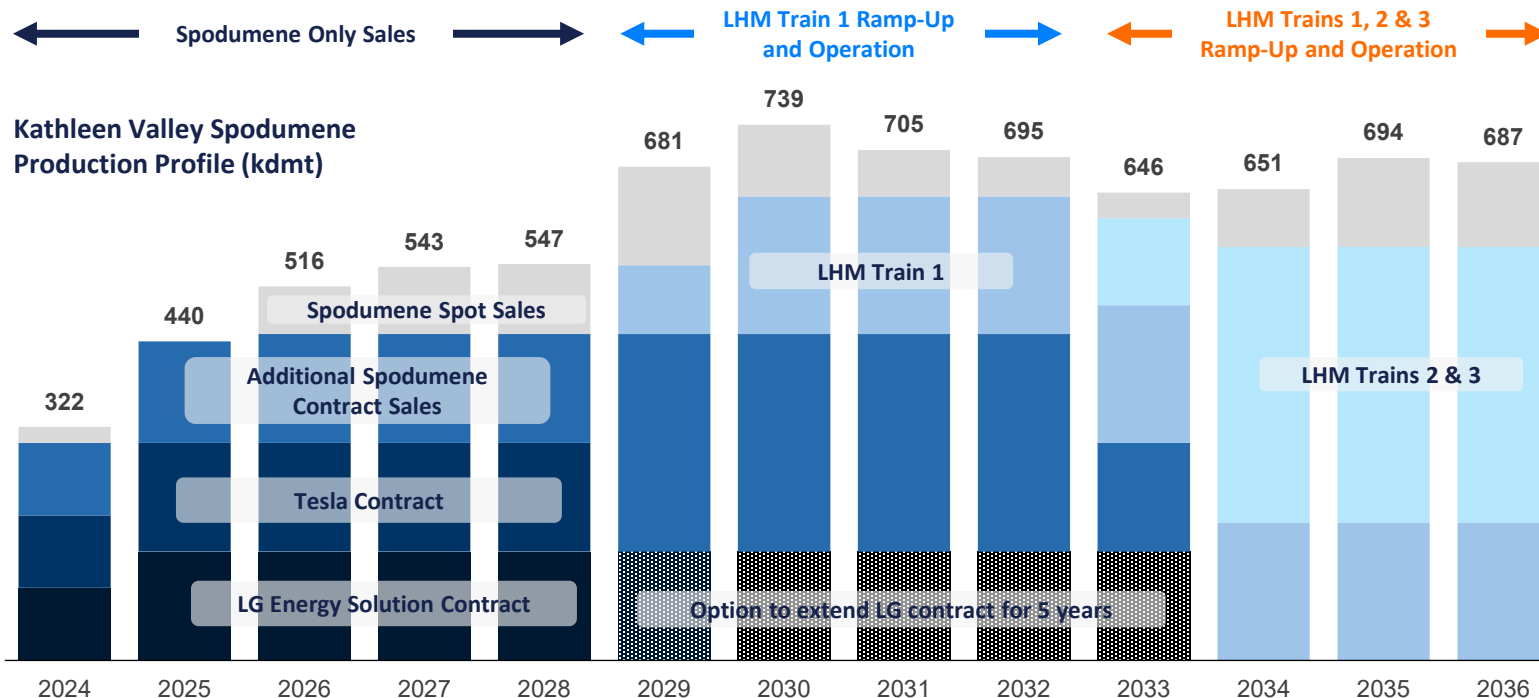
The **2021 updated DSS confirmed**: Value maximizing pathway for Liontown is a staged-build, integrated mining, processing and refining operation producing Lithium Hydroxide Monohydrate ("LHM")



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 **incremental carbon** footprint



Value Maximising Pathway

- ✓ Exposure to higher margin end-product more quickly
- ✓ Capture highly favourable market environment
- ✓ Unlocks additional off-takers (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

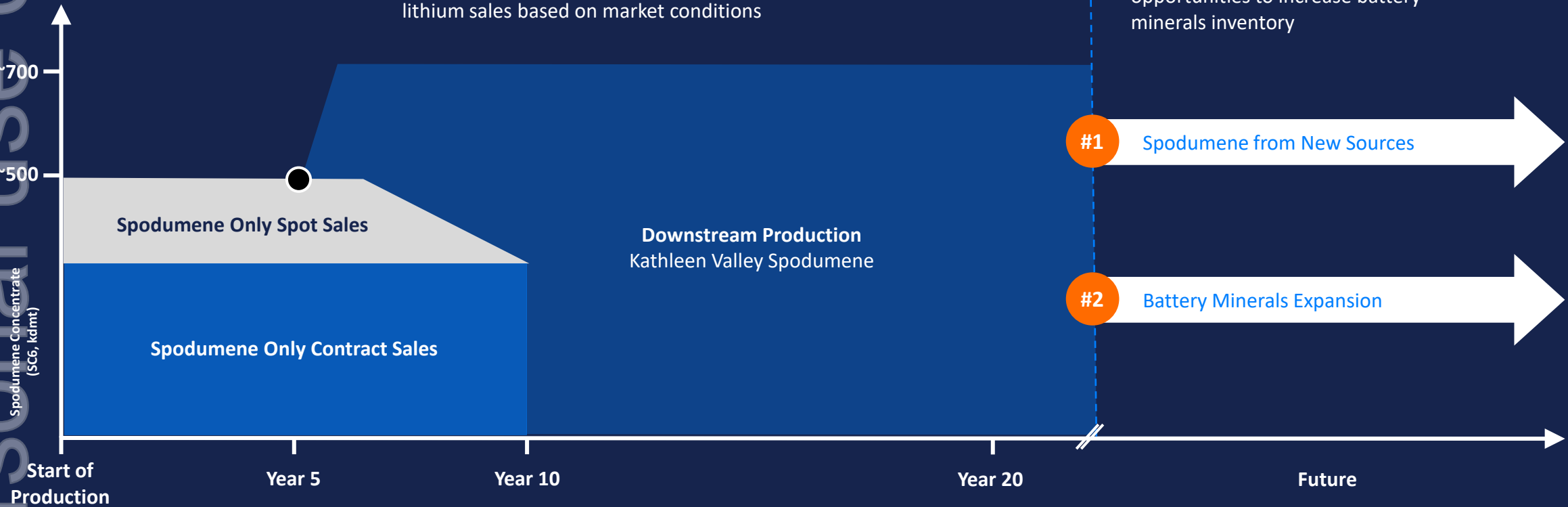


Liontown's Long-Term Strategy

Liontown is planning for the future

Kathleen Valley Spodumene

Optionality for spodumene or processed lithium sales based on market conditions



Future Supply

Liontown is continuously exploring opportunities to increase battery minerals inventory

#1

Spodumene from New Sources

#2

Battery Minerals Expansion



Liontown's Investment Proposition



Tier 1 Asset

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



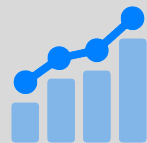
Timed to Perfection

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



ESG-Positive

Clear Net zero aspirations, with a climate strategy roadmap under development prior to start-up



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



For More Information:

Tony Ottaviano

Managing Director

+61 8 6186 4600

info@ltresources.com.au

Nicholas Read

Read Corporate

+61 8 9388 1474

nicholas@readcorporate.com.au



liontown-resources-limited



@LiontownRes

