

Sustainable Lithium from micas

Annual General Meeting Update

November 2022



LEPIDICO

Disclaimer

IMPORTANT INFORMATION

This presentation has been prepared by the management of Lepidico Ltd (the 'Company') for the benefit of brokers, analysts and investors and not as specific advice to any particular party or person.

The information is based on publicly available information, internally developed data and other external sources. No independent verification of those sources has been undertaken and where any opinion is expressed in this

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Where the Company expresses or implies an expectation or belief as to the success of future exploration and the economic viability of future projects, such expectation or belief is based on management's current predictions, assumptions and projections. However, such forecasts are subject to risks, uncertainties and other factors which could cause actual results to differ materially from future results expressed, projected or implied by such forecasts.

Such risks include, but are not limited to, exploration success, commodity price volatility, future changes to mineral resource estimates, changes to assumptions for capital and operating costs as well as political and operational risks and governmental regulation outcomes. For more detail of risks and other factors, refer to the Company's other Australian Securities Exchange announcements and filings. The Company does not have any obligation to advise any person if it becomes aware of any inaccuracy in, or omission from, any forecast or to update such forecast.

Forward-looking Statements

All statements other than statements of historical fact included in this release including, without limitation, statements regarding future plans and objectives of Lepidico, are forward-looking statements. Forward-looking statements can be identified by words such as "anticipate", "believe", "could", "estimate", "expect", "future", "intend", "may", "opportunity", "plan", "potential", "project", "seek", "will" 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 are expected to take place. Such forward looking statements are not guarantees 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, its directors and management of Lepidico that could cause Lepidico's actual results to differ materially from the results expressed or anticipated in these statements.

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Competent Person Statement

The information in this report that relates to the Helikon 1 and Rubicon Ore Reserve estimates is extracted from an ASX Announcement dated 28 May 2020 ("Definitive Feasibility Study Delivers Compelling Phase 1 Project Results") and was completed in accordance with the guidelines of the JORC Code (2012). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the Mineral Resource estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are represented have not been materially modified from the original market announcement.

The information in this report that relates to the Rubicon and Helikon 1 Mineral Resource estimates is extracted from ASX Announcements dated 30 January 2020 ("Updated Mineral Resource Estimates for Helikon 1 and Rubicon") and 12 March 2021 ("Karibib Mineral Resource expanded"), which completed in accordance with the guidelines of the JORC Code (2012). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the Mineral Resource estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are represented have not been materially modified from the original market announcement.

The information in this report that relates to the Helikon 2 - Helikon 5 Mineral Resource estimates is extracted from an ASX Announcement dated 16 July 2019 ("Drilling Starts at the Karibib Lithium Project") and was completed in accordance with the guidelines of the JORC Code (2012). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the Mineral Resource estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are represented have not been materially modified from the original market announcement.

Lepidico is

the global leader in sustainable lithium mica processing, with technologies that deliver superior product quality and have excellent associated environmental & social credentials
Lepidico is set to capture an early-mover advantage in the current cycle.

Phase 1 fundamentals updated¹

Construction
cost

(inc. contingency)

US\$266m

Post tax

NPV₈

US\$530m

NPV₀

US\$1,187m

IRR **42%**

Project
payback

(from start of production)

3 years

Operating
costs

(by-product LCE basis)

C1 cash cost

US\$/t 7,100

ASIC

US\$/t 11,500

Average
annual free
cash flow³

(post ramp-up)

US\$92m

Lithium
hydroxide
production²

4,350 tpa

Sulphate
of potash
production²

6,900 tpa

Caesium
sulphate
production²

235 tpa

Bulk by-
products =>

**Zero solid
converter
waste**

Project life

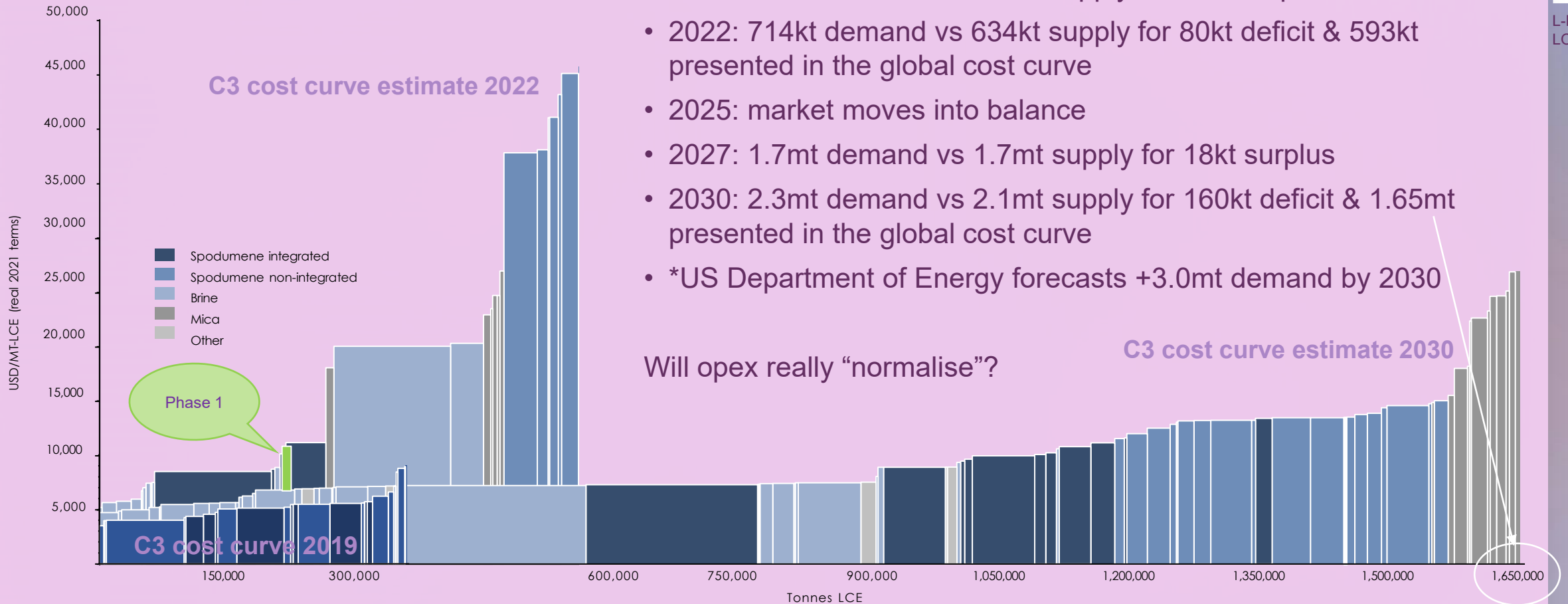
**15 years;
Target
20 years**

¹ ASX Announcement 22 November 2022: Phase 1 Economics Updated & Improved.

² Products at steady state operation expressed as a salt.

³ Cash flows based on Benchmark Mineral Intelligence Q1 2020 LiOH price forecast (US\$12,910/t long term).

Lithium cost curve: evolution



Supply & Demand

- 2019: 302kt demand vs 341kt supply for 39kt surplus
- 2022: 714kt demand vs 634kt supply for 80kt deficit & 593kt presented in the global cost curve
- 2025: market moves into balance
- 2027: 1.7mt demand vs 1.7mt supply for 18kt surplus
- 2030: 2.3mt demand vs 2.1mt supply for 160kt deficit & 1.65mt presented in the global cost curve
- *US Department of Energy forecasts +3.0mt demand by 2030

Will opex really “normalise”?

C3 cost curve estimate 2030

Data source: Benchmark Mineral Intelligence, September 2022; *Department of Energy May 2022

Lithium supply-demand

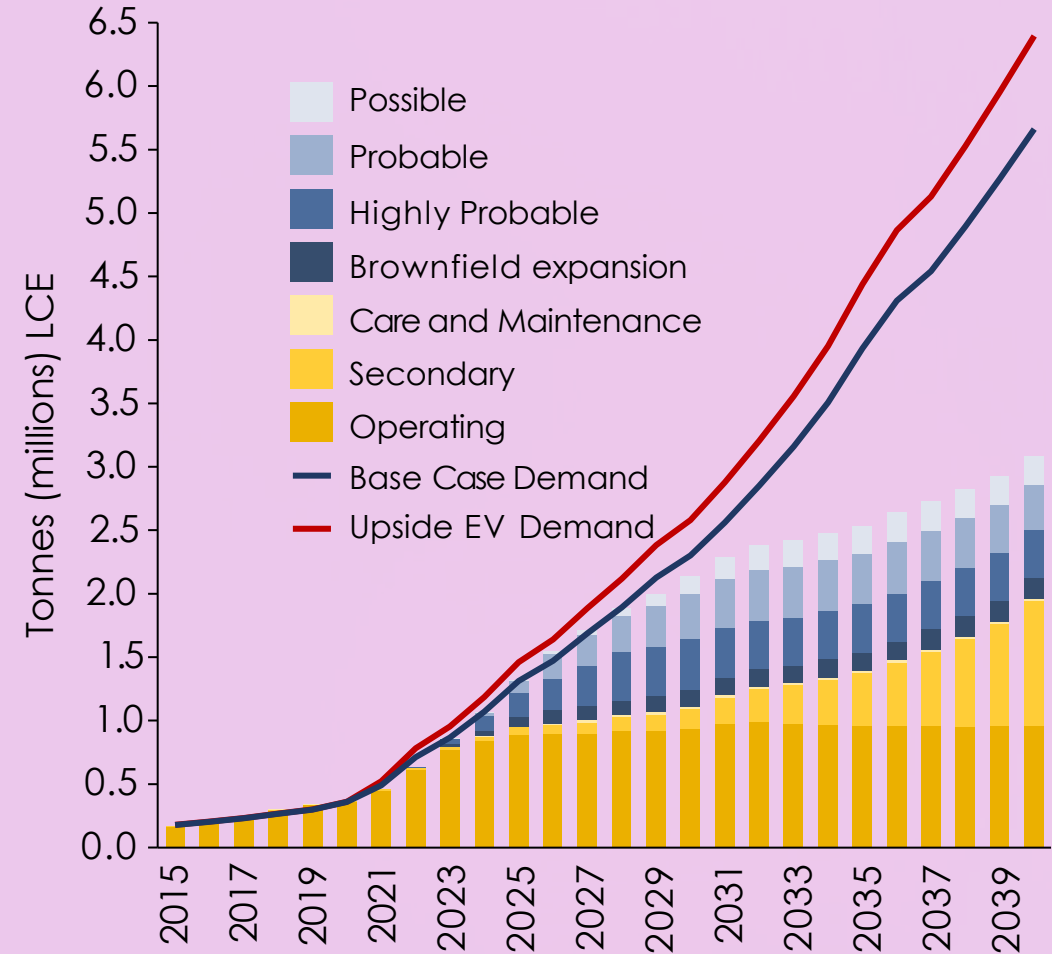
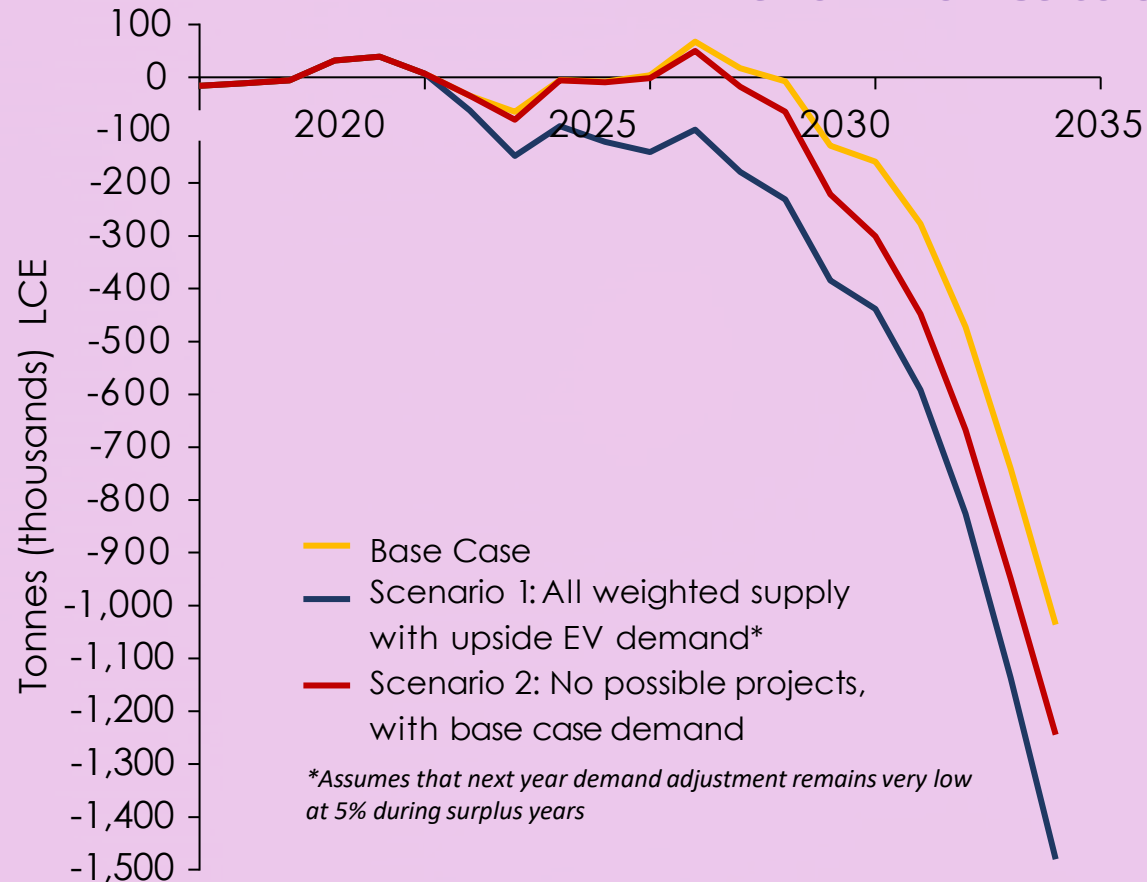


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ASX:LPD

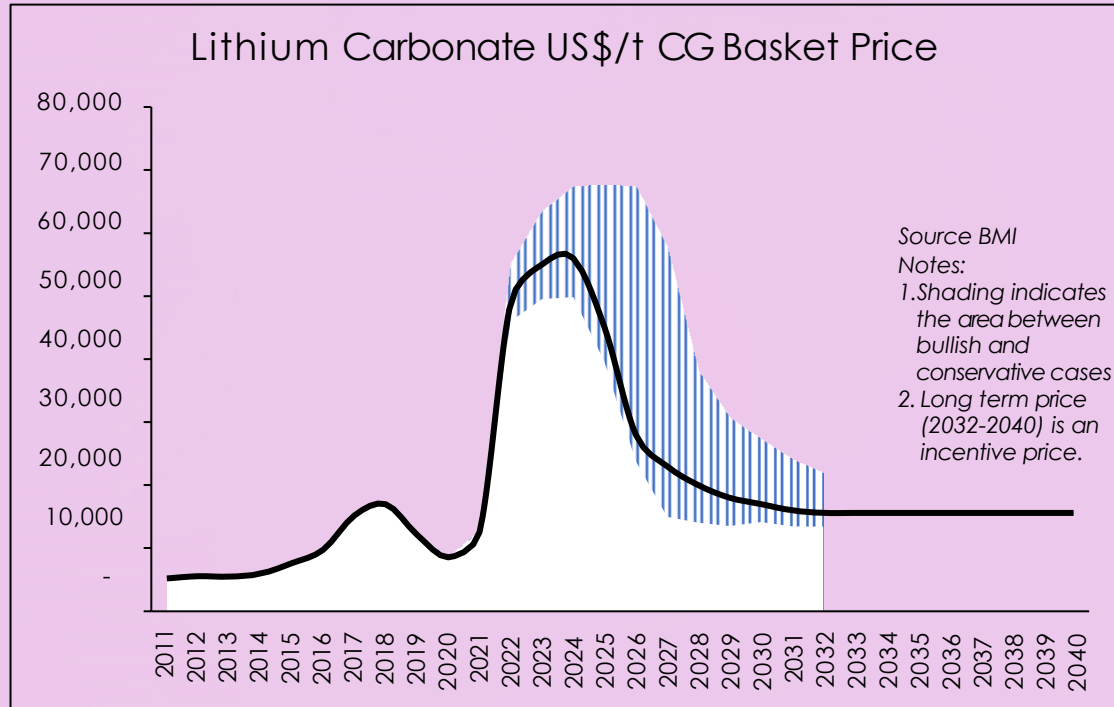
L-MAX®
LOH-Max®

Lithium market balance 2015-2035 LCE



Data source: Benchmark Mineral Intelligence, September 2022

Lithium price: discussion

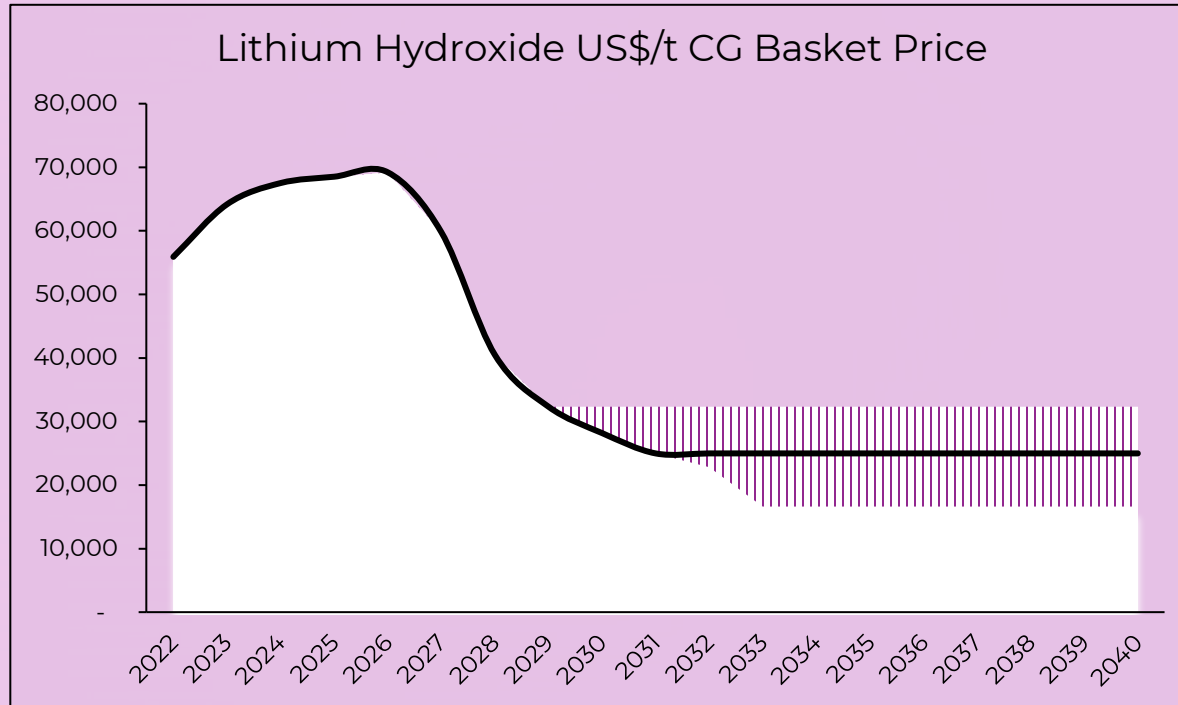


Medium & Long term outlook (BMI, September 2022)

- From 2026, prices will begin to fall to more stable levels. The sharpness of the decline will somewhat depend on the risk mitigation strategies chosen now and in the next two years by major chemical producers, i.e. the degree to which companies pin formulas to Chinese prices.
- There is a high chance that once prices abate and supply satisfies base case demand, the market will shift into an upside demand scenario, again placing pressure on prices. This will only exacerbate the **huge supply deficit likely** to be seen from around 2030-32 as the market grows rapidly.

Will prices really revert to an historical mean?

Lithium price: sensitivities



Data source: Benchmark Mineral Intelligence 2022 to 2029, Lepidico thereafter

Will prices really revert to an historical mean?

Given the outlook for:

- Unprecedented demand growth of 6-8x this decade, fueled by energy transition commitments;
- New supply headwinds: E&S compliance, supply chain stress, permitting, inflation, geopolitics;
- 2-4x operating cost inflation from 2019 to 2022 reflected in global cost curve; and
- A “huge supply deficit likely” into the next decade

We think not

Project lithium hydroxide price sensitivities founded on BMIs September 2022 price forecast:

Base case US\$16,800/t from 2033

Mid-case US\$25,000/t from 2031

Upside case US\$32,350/t from 2029

Our Phase 1 project

Vertical integration means that Phase 1 will reap the full value chain benefits – from ore mining to fine chemical manufacture – via our proprietary hydrometallurgical technologies that include L-Max® and LOH-Max®.

We will produce and ship lepidolite concentrate from Namibia to the chemical conversion plant at KEZAD in the United Arab Emirates.

The hydrometallurgical conversion plant operates at modest temperature and atmospheric pressure, and has a concentrate capacity of 60,000tpa (tonnes per annum).



Options for growth

Karibib Mineral Resources development program to extend Phase 1 life to +20 years in FY2023

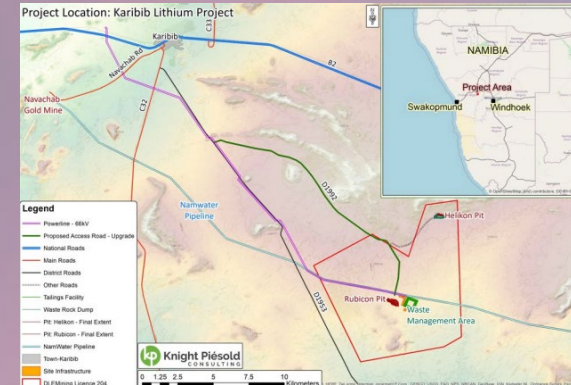
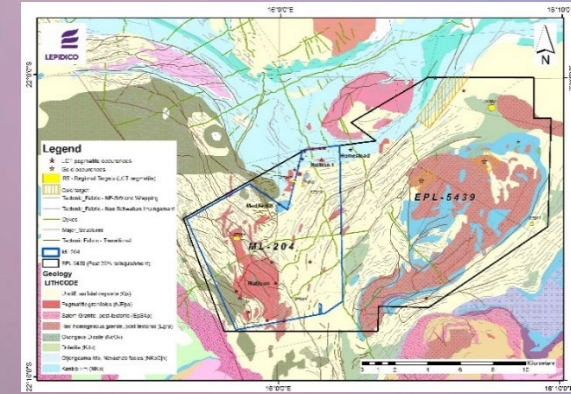
We are already planning a 2-4x scale-up for a Phase 2 project, with concentrate supply from our own assets as well as third-party mines.

Excellent established infrastructure and water permit in place at Karibib for 2x expansion.

Capital efficient Karibib concentrator expansion leverages Phase 1 investment.

Globally, 20 lithium mica & phosphate deposits successfully tested for L-Max[®] amenability.

Royalty revenues from licensing of our proprietary tech to partners. One of these deals has already been completed.



Tom Dukovcic
GM Geology



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ASX:LPD

L-MAX®
LOH-Max®

Near-term drivers/catalysts

- Chemical plant control estimate & revised Phase 1 economics complete November 2022; concentrator FEED complete
- Phase 1 mine life extension December quarter 2022
- Binding lithium offtake with Traxys; back-to-back agreements with consumers targeted for March quarter 2022
- Debt commitments from December 2022 with a Phase 1 Final Investment Decision targeted for March quarter 2023
- Strategic partner process well advanced; multiple opportunities
- Phase 2 Mineral Resource expansion program targeting high-grade additions at Helikon 2-5 & regional targets

Investment highlights

Delivering a new source
of sustainable lithium:
why Lepidico

