

1 March 2023

INVESTOR PRESENTATION

Attached is an investor presentation to be presented by CEO, Brett Lynch at the 32nd BMO Metals, Mining and Critical Minerals Conference in Miami, Florida USA.

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About Sayona Mining

Sayona Mining Limited is an emerging lithium producer (ASX:SYA; OTCQB:SYAXF), with projects in Québec, Canada and Western Australia.

In Québec, Sayona's assets comprise North American Lithium together with the Authier Lithium Project and its emerging Tansim Lithium Project, supported by a strategic partnership with American lithium developer Piedmont Lithium Inc. (Nasdaq:PLL; ASX:PLL). Sayona also holds a 60% stake in the Moblan Lithium Project in northern Québec.

In Western Australia, the Company holds a large tenement portfolio in the Pilbara region prospective for gold and lithium. Sayona is exploring for Hemi-style gold targets in the world-class Pilbara region, while its lithium projects are subject to joint venture with Morella Corporation (ASX:1MC).

For more information, please visit us at www.sayonamining.com.au

North America's next lithium producer.

BMO Global Metals, Mining & Critical Minerals Conference
26 February – 1 March 2023

Brett Lynch
Managing Director and Chief Executive Officer



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This presentation refers to the following previous ASX releases:

- NAL restart on track and on budget – 17 February 2023
- Quarterly Activities/Appendix 5B Cashflow Report – 31 January 2023
- New NAL milestone with successful ore crushing trial – 31 January 2023
- NAL restart accelerates towards target – 16 January 2023
- Northern lithium hub expands in major acquisition – 17 November 2022
- Acquisition offers potential increase to NAL resource – 14 November 2022
- Moblan PFS targets Québec lithium expansion – 5 October 2022
- PFS launched for NAL lithium carbonate production – 4 October 2022
- Positive Pre-Feasibility Study enhances NAL value – 23 May 2022
- Sayona doubles Québec lithium resource base – 1 March 2022
- Sayona expands northern Québec lithium hub with 121 new claims – 25 January 2022
- Resource expansion eyed as Moblan acquisition closes – 18 October 2021

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 all material assumptions and technical parameters 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.

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North America's next
lithium producer

Sayona is on
track to deliver
first lithium
production in
March 2023.

North American Lithium (NAL)
Abitibi region, Québec

The restored NAL plant has a target annual nameplate capacity of up to 226,000t of spodumene concentrate.



 NAL powered primarily by low cost, green hydro-electricity

Corporate Snapshot

ASX:SYA | OTCQB:SYAXF

Share price

A\$0.22

15 February 2023
52 week high \$0.39, low \$0.11

Market capitalisation

A\$1.9B

15 February 2023

Debt

Zero

31 December 2022

Shares on issue

8.7B

15 February 2023

Cash

A\$97.9M

31 December 2022

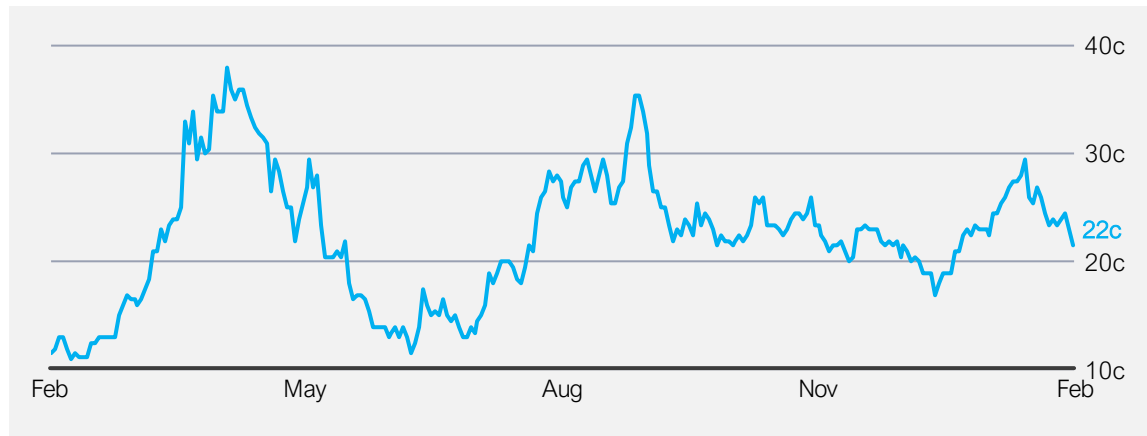
Various options

275M

31 December 2022
(Cash equivalent ~\$11M)

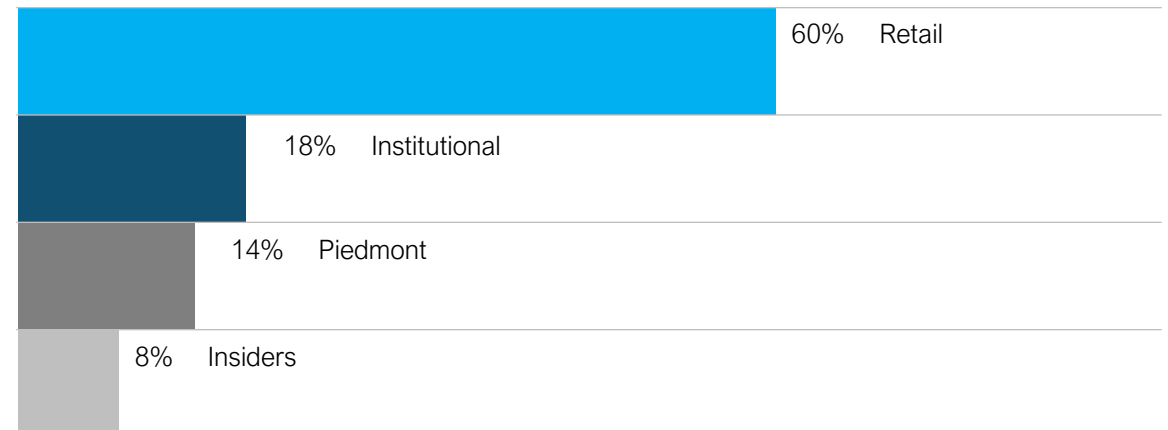
ASX share price performance (A\$)

12 months to 15 February 2023



Share register

Figures shown are approximate as at 3 February 2023



ESG

At the heart of all we do

Our commitment to sustainability reflects the critical role lithium will play in the world's accelerating decarbonisation drive

We contribute to transport electrification and the fight against climate change.

We are committed to ensuring our projects are a source of pride for host communities.

Sayona is accelerating the development of a battery manufacturing chain in Québec.

90% of NAL staff based in Abitibi; 33% female.

Over C\$40M injected into local economy since January 2022.

Our approach with First Nations communities is to build strong relationships based on transparency and mutual collaboration.

Our values



Québec Lithium

Abitibi Hub

North American Lithium (NAL)
Mine and concentrator
Future carbonate plant

Authier Project
Long-life deposit
30km from NAL

Tansim Project
Exploration project with
near-term potential

Measured + Indicated Resource¹

87.8Mt
@1.05% Li₂O

Northern Hub

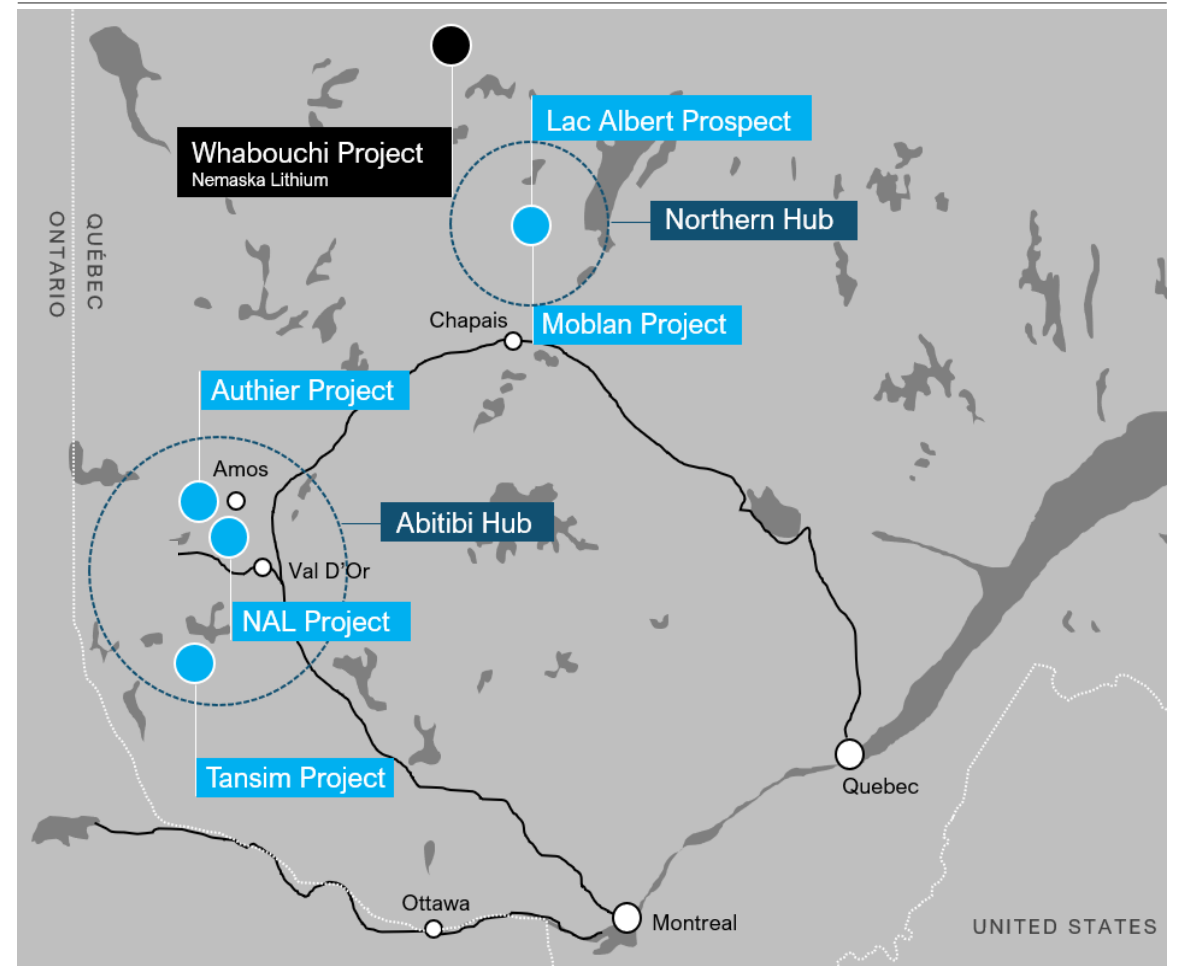
Moblan Project
Host to high-grade
spodumene mineralisation

Lac Albert Prospect
Located in proven lithium
mining province

Foreign Mineral
Resource Estimate²

12.03Mt
@1.4% Li₂O

Abitibi and Northern Hubs

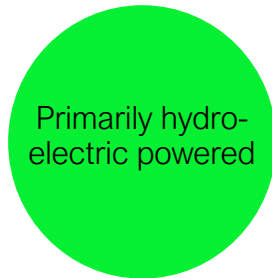


North American Lithium (NAL)

The heart of Sayona's
Abitibi Hub

NAL comprises a lithium mine
co-located with a concentrator and
partially completed carbonate plant

By 2026, NAL aims to become the first and only integrated
operation in North America, from mining to processing and
downstream.



NAL ownership: Sayona 75% | Piedmont 25%



North American Lithium open pit mining operation

North American Lithium (NAL)

In production for \$200M in under two years from acquisition

01

Restarted NAL operations in quick time

Low-cost refurbishment of existing NAL operations.
On-time and on-budget.

Successful crushing circuit commissioning Jan 2023.
Rail contract signed for delivery to port.

First shipment expected Jul 2023, with
four shipments planned in H1 FY24.

Upgrades underway to improve operational efficiency, reliability, grade, quality and recovery.

Permitting completed and senior personnel recruited.

Mining contractors on-site.

ROM stockpile exceeds 150,000t (as at Dec 2022).

Speed

On track for first spodumene concentrate production in March 2023



Projected NAL H1 FY24 total production spodumene concentrate

85,000t – 115,000t

Abitibi Hub

Growth and transformation

- 01 Increase resources and production**

Sayona will blend ore extracted from Authier with NAL ore to enhance plant performance and economics.

2023 drill campaign of 36,000m at NAL
- 02 Jourdan Strategic Transactions**

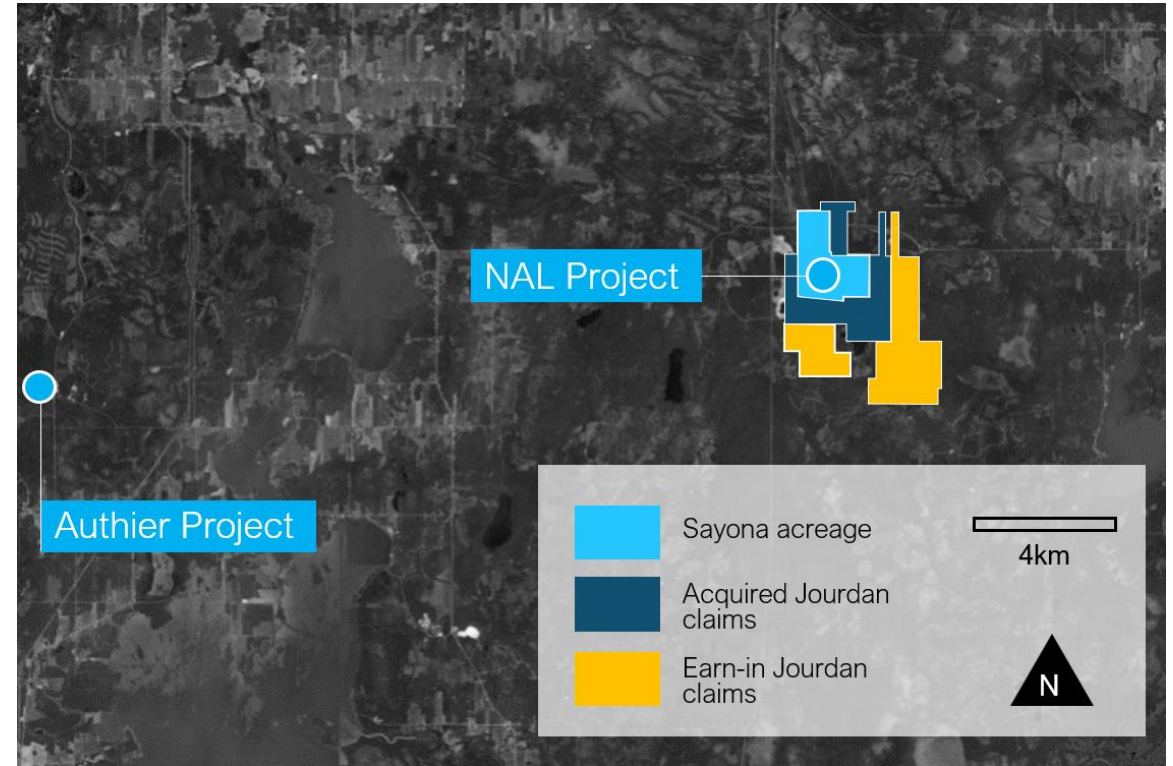
Jourdan Resources' Vallée Lithium Project deal - acquisition of 20 claims outright with right to earn up to 51% stake in remaining 28 claims.

Drilling 15,000m in 2023 as part of the \$4 million earn-in commitment
- 03 Move further downstream**

[Lithium carbonate PFS due April 2023.](#)
[Sayona targeting production by 2026.](#)

Significantly, the NAL complex already includes a partially completed lithium carbonate plant constructed by its previous owners.

51,000m drill campaign in 2023



November 2022

Jourdan Resources' Vallée Lithium Project claims acquisition and joint venture

North American Lithium (NAL)

Spodumene Offtake

Secured spodumene offtake agreements

NAL JV will sell Piedmont the greater of 50% of the facility production volume or 113,000t of spodumene concentrate

Commences 1 July 2023 and runs until earlier of Life-of-Facility or downstream conversion in Québec

Assumes first year of shipments in 2023 will be allocated between Piedmont and other customers during ramp-up

Shipment allocation applied pro-rata across year

Additional offtake agreements pending

Sayona has direct exposure to prevailing robust spodumene pricing

Producing at nameplate capacity maximises revenue to Sayona

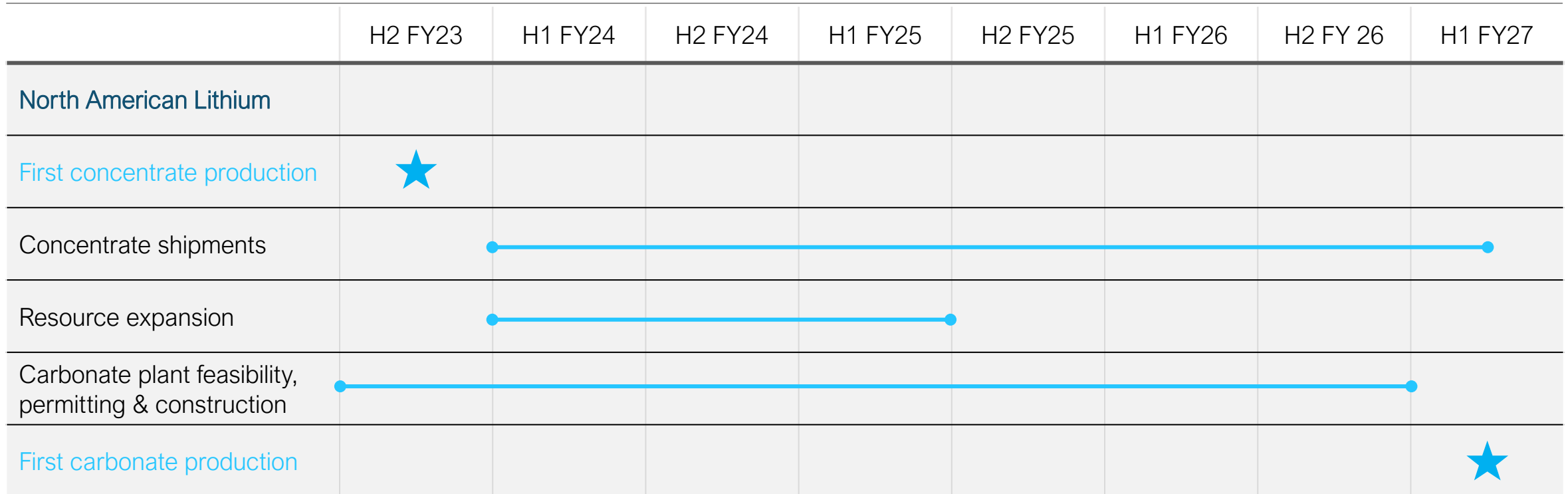


Abitibi Hub

Timeline¹

Speed

Brownfield asset with quick pathway to production



Northern Hub

Moblan Project

Moblan is host to high-grade spodumene mineralisation with more than 33,000m of diamond core drilling completed by Sayona as at October 2022

Further drilling underway in northern hemisphere winter, expected to result in upgraded resource.

By the numbers

Foreign Mineral Resource Estimate¹

12.03Mt

@1.4% Li₂O

Moblan
PFS due
May 2023

Moblan
DFS due
Oct 2023

Updated estimates pending

¹ The Mineral Resources and Ore Reserves stated are foreign estimates and are not reported in accordance with the JORC Code. A competent person has not done sufficient work to classify the foreign estimates as Mineral Resources or Ore Reserves in accordance with the JORC Code. It is uncertain that following evaluation and/or further exploration work that the foreign estimates will be able to be reported as Mineral Resources or Ore Reserves in accordance with the JORC Code.

Moblan ownership: Sayona 60% | SOQUEM 40%

In October 2021, Sayona acquired a 60% interest in the Moblan Lithium Project through an existing joint venture with SOQUEM Inc, a wholly owned subsidiary of Investissement Québec.

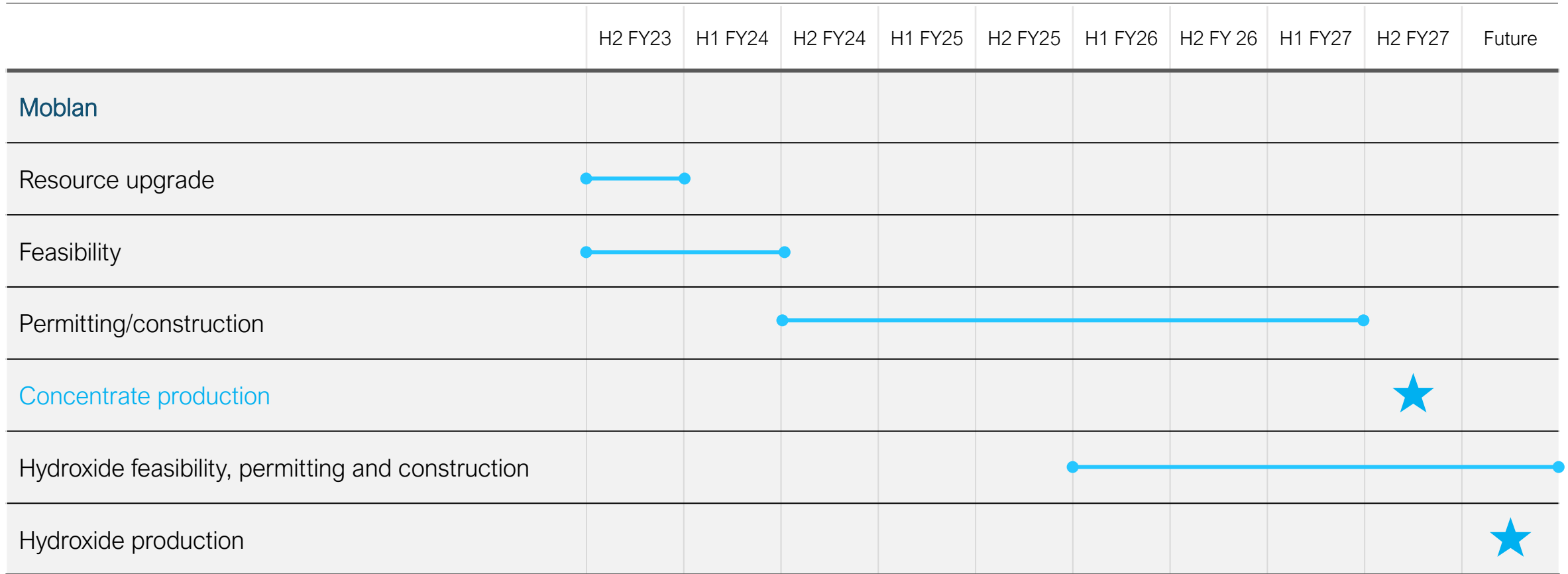


Project to be powered by low cost, green hydro-electricity

Northern Hub Timeline¹

Speed

Sayona will deliver the Northern Hub with the speed and agility that served to fast-track Abitibi's production



Investor milestones

Completed Milestones

- \$190M capital raising
- NAL acquisition
- NAL PFS
- Moblan Lithium Project and Lac Albert Prospect acquisition
- Significant drill program at Moblan
- Troilus claims acquisition
- Jourdan claims acquisition

Future Milestones

- NAL restart
- NAL offtake agreements
- NAL first spodumene shipment
- NAL carbonate PFS
- NAL carbonate DFS
- Exercise of earn-in option for Vallée JV
- Moblan resource upgrade
- Moblan PFS and DFS



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