

**AGRIMIN LIMITED**

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# Developing a Tier 1 SOP asset to sustain global food production

Noosa Mining Conference | July 2023

ASX: AMN



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## Cautionary Statement

The Definitive Feasibility Study results, production target and forecast financial information referred to in this presentation are supported by the Definitive Feasibility Study mine plan which is based on the extraction of 93% Ore Reserve and 7% Inferred Mineral Resource. There is a low level of geological confidence associated with the Inferred Mineral Resource and there is no certainty that further exploration work and economic assessment will result in the conversion to Ore Reserve or that the production target itself will be realised. The Mineral Resource and Ore Reserve underpinning the production target in this presentation have been prepared by a competent person in accordance with the requirements of the JORC Code (2012).

## Competent Person Statements

The information in this presentation that relates to Exploration Results for the Mackay Potash Project is based on and fairly represents information compiled or reviewed by Mr Michael Hartley, who is a member of AusIMM and the Australian Institute of Geoscience (AIG). Mr Hartley is a full-time employee of Agrimin Limited. Mr Hartley has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity he is undertaking, to qualify as a Competent Person in terms of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' (JORC Code 2012 Edition). Mr Hartley consents to the inclusion of such information in this presentation in the form and context in which it appears.

The information in this presentation that relates to the Mineral Resource estimate for the Mackay Potash Project was first reported in accordance with ASX listing rule 5.8 in the Company's ASX Release titled "Potash Resource Upgraded by 470%" announced on 20 January 2020. The Company confirms that it is not aware of any new information or data that materially affects the information included in the previous announcement and that all material assumptions underpinning the estimate in the previous announcement continue to apply and have not materially changed.

The information in this presentation that relates to the Ore Reserve for the Mackay Potash Project was first reported in accordance with ASX listing rule 5.9 in the Company's ASX Release titled "Agrimin to be the World's Lowest Cost SOP Producer" announced on 21 July 2020. The Company confirms that it is not aware of any new information or data that materially affects the information included in the previous announcement and that all material assumptions underpinning the estimate in the previous announcement continue to apply and have not materially changed.

The information in this presentation that relates to production targets and forecast financial information for the Mackay Potash Project were first reported in accordance with ASX listing rules 5.16 and 5.17 in the Company's ASX Release titled "Agrimin to be the World's Lowest Cost SOP Producer" announced on 21 July 2020. The Company confirms that all the material assumptions underpinning the production targets and forecast financial information derived from the production target in the previous announcement continue to apply and have not materially changed.

The information in this presentation that relates to the interpretation of process test work data and mineral processing for the Mackay Potash Project was first reported in the ASX Release titled "Agrimin to be the World's Lowest Cost SOP Producer" announced on 21 July 2020. The Company confirms that it is not aware of any new information or data that materially affects the information in the previous announcement and that all the material assumptions underpinning the interpretation in the previous announcement continue to apply and have not materially changed.

## Authorisation Statement

This presentation is authorised for market release by Agrimin's Board of Directors.

**All currency amounts are in Australian dollars unless specified otherwise.**



## **Agrimin provides unrivaled exposure to potash**

Developing the world's leading Sulphate of Potash (SOP) asset



## **Committed to maximising shareholder value**

Focused on disciplined development and retaining leverage to record potash prices



## **100% ownership of a Tier 1 asset in WA**

Mackay Potash Project to be the largest and lowest cost SOP seaborne supplier



## **Low-carbon production process**

Targeting the lowest carbon footprint of any major macro-nutrient product



## **Sustainable and organic plant nutrient products**

Made in Australia and certified for organic food production

# Project highlights

Project ownership

**100%**

Largest SOP development outside of Africa

**450ktpa**

Lowest global forecast total cash cost

**US\$159/t FOB**

Outstanding DFS results<sup>1</sup>

**\$1bn NPV & 21% IRR** (post-tax)

Binding offtake for

**70% of production**

Set to be shovel ready in

**2023**

## A world-class potash project portfolio in WA



1. Refer to the ASX Release on 21 July 2020 for full Definitive Feasibility Study details. The production target and financial information in this table must be read in conjunction with the Cautionary Statement on page 2 of this presentation.

# The premium potash fertiliser

SOP is essential for high value crops and trades at a substantial price premium

Current Price<sup>1</sup>  
**US\$630/t**

Market Size  
**7Mtpa**

## Sulphate of Potash (SOP)

- Chloride-free source of potassium and sulphur
- Essential for high value, chloride intolerant crops such as fruits, vegetables and tree nuts
- Global use is supply constrained
- Price premium
- Supports higher quality food yields



Current Price<sup>1</sup>  
**US\$330/t**

Market Size  
**70Mtpa**

## Muriate of Potash (MOP)

- Standard source of potassium
- Contains high level of chloride
- Applied to low value, chloride tolerant crops such as rice, maize and wheat



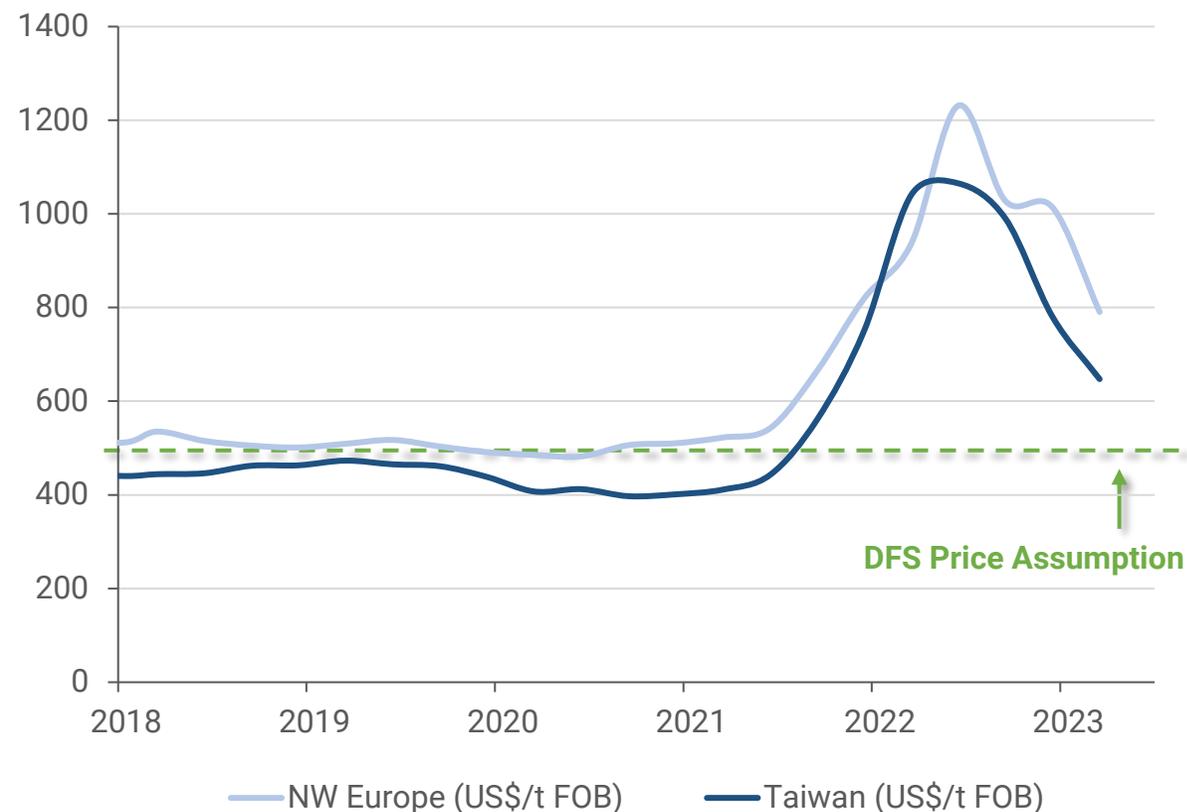
1. Source: Argus Media group.

# SOP prices remain at record highs

## Global prices support new SOP project developments

- Current global SOP prices are approximately US\$630/t
- Agrimin's DFS<sup>1</sup> was prepared using a long-term flat SOP price of US\$500/t FOB Wyndham
- Supply constraints from Russia and Belarus, as well as increased crop prices have recently driven potash prices to record highs
- Major potash importers including China and India continue to draw down national stockpiles
- Demand for Agrimin's **low carbon and organic** SOP is expected to grow significantly and displace existing production

### 5 Year SOP Price History<sup>2</sup>



1. Refer to slide 12 of this presentation for further details of the DFS results.

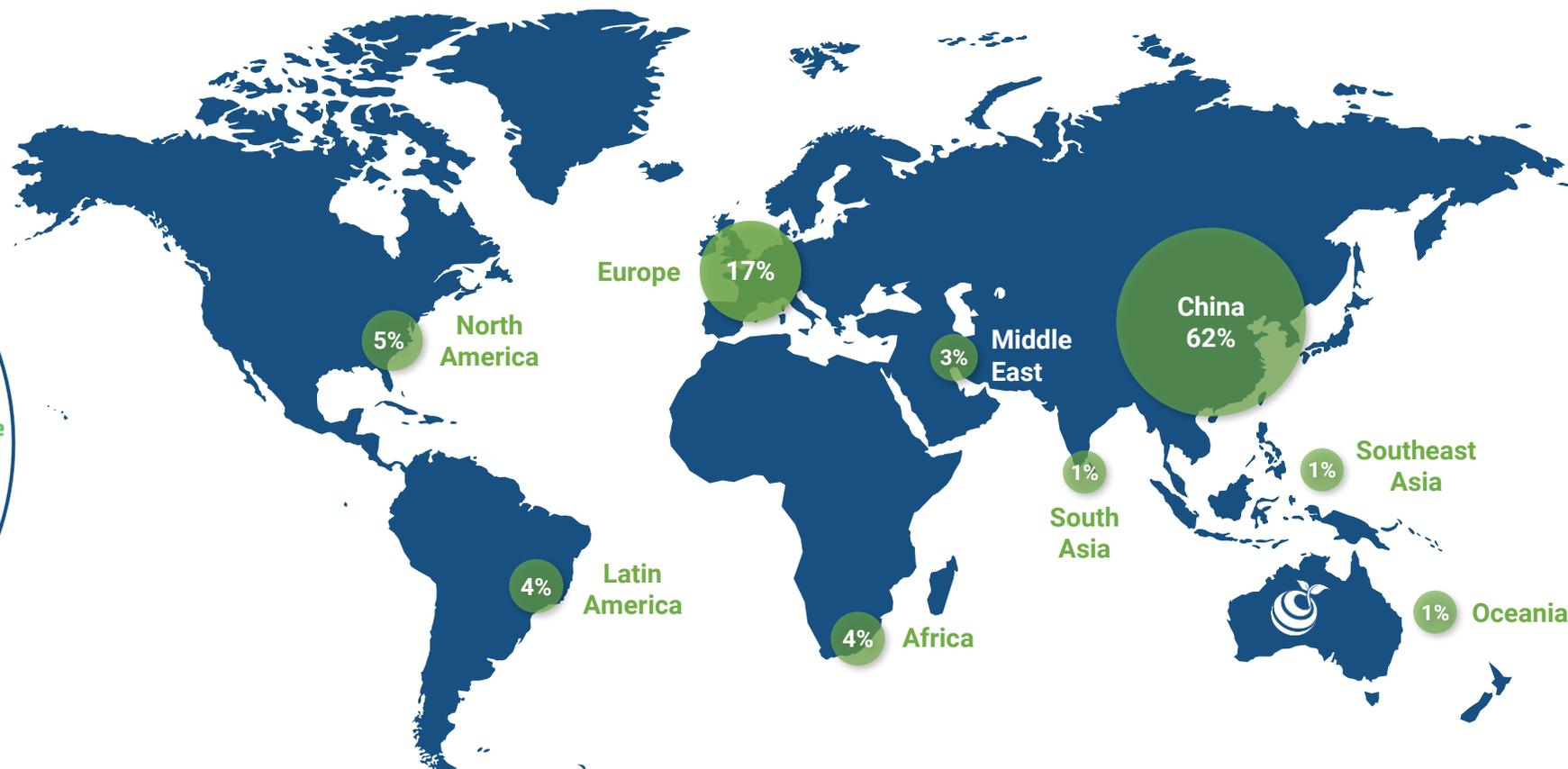
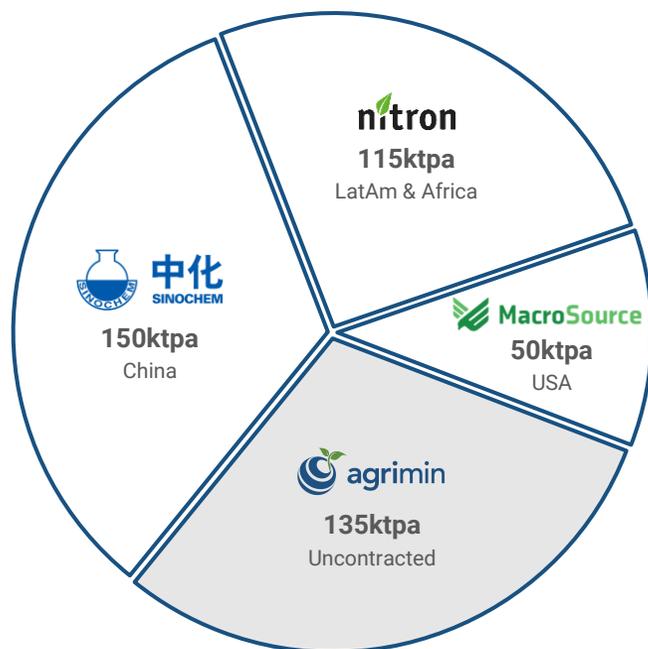
2. Source: CRU Group and Argus Media.

# Tier 1 offtake partners

Binding long-term offtakes secured for 70% of planned production

## SOP Demand by Region (% of ~7Mt Global Market)<sup>2</sup>

### Agrimin's Offtake Book<sup>1</sup>



1. Refer to the ASX Releases on 18 May 2021, 25 January 2022 and 4 April 2022 for further details in relation to Agrimin's Binding Offtake Agreements with Sinochem Fertilizer Macao Limited, Nitron Group, LLC and Gavilon Fertilizer, LLC, respectively.  
2. Source: CRU.

# Detailed and differentiated feasibility work

Over \$50m invested to date

- **Industry's most extensive DFS program completed in July 2020, including:**
  - 2 years of long-term trench pumping at 22 representative sites across Lake Mackay
  - 1½ year pilot evaporation trial on Lake Mackay with >100t of potash salts harvested
- DFS engineering and costings completed by experienced WA-based contractors via early contractor involvement
- **Independent Technical Review completed in April 2021**

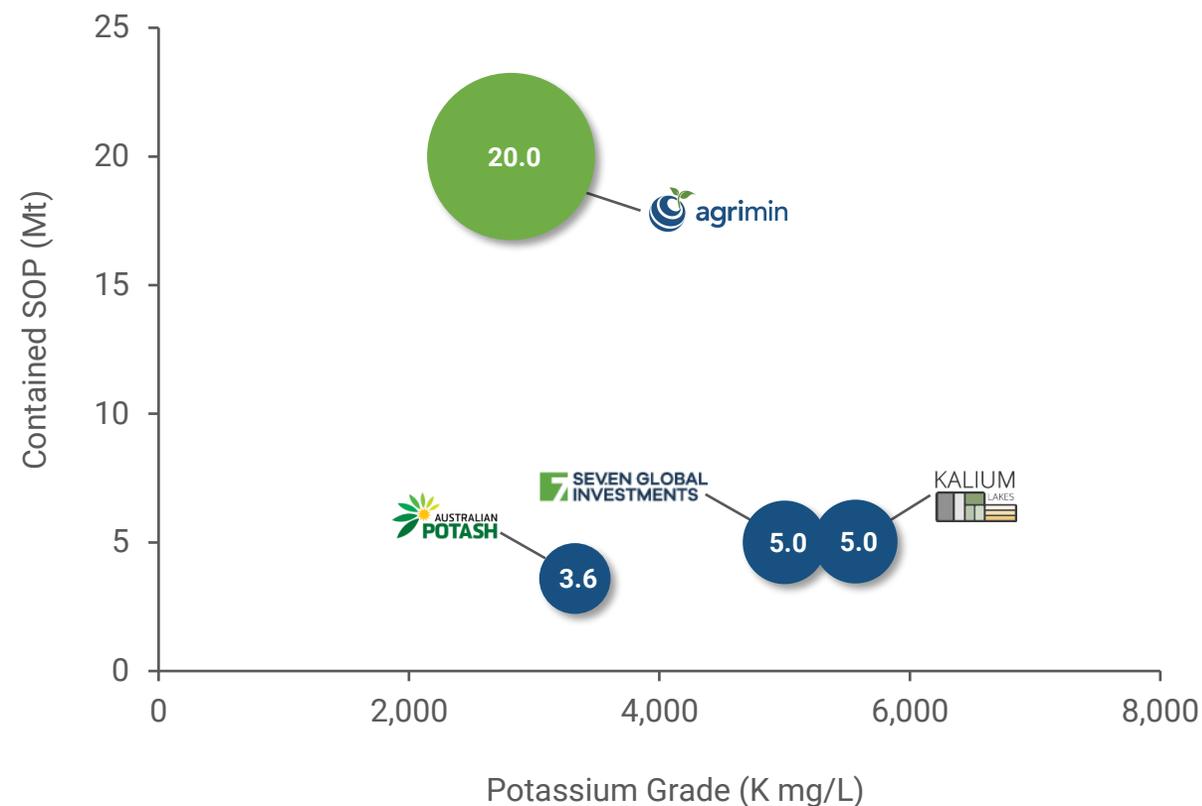


# Lake Mackay is a Tier 1 potash deposit

## A unique potash opportunity

- **20Mt contained SOP<sup>1</sup>** = Australia's largest SOP Ore Reserve and the world's largest undeveloped potash-bearing salt lake
- **2,815mg/L potassium** = high-grade Ore Reserve, based on average grade over the life-of-mine
- **40-year life** = underpins critical investment in renewable power and transport infrastructure
- **Shallow, contiguous resource** = opportunity for low-risk, low-cost development
- **Competitive cost structure** = high margins and ability to withstand the commodity cycle

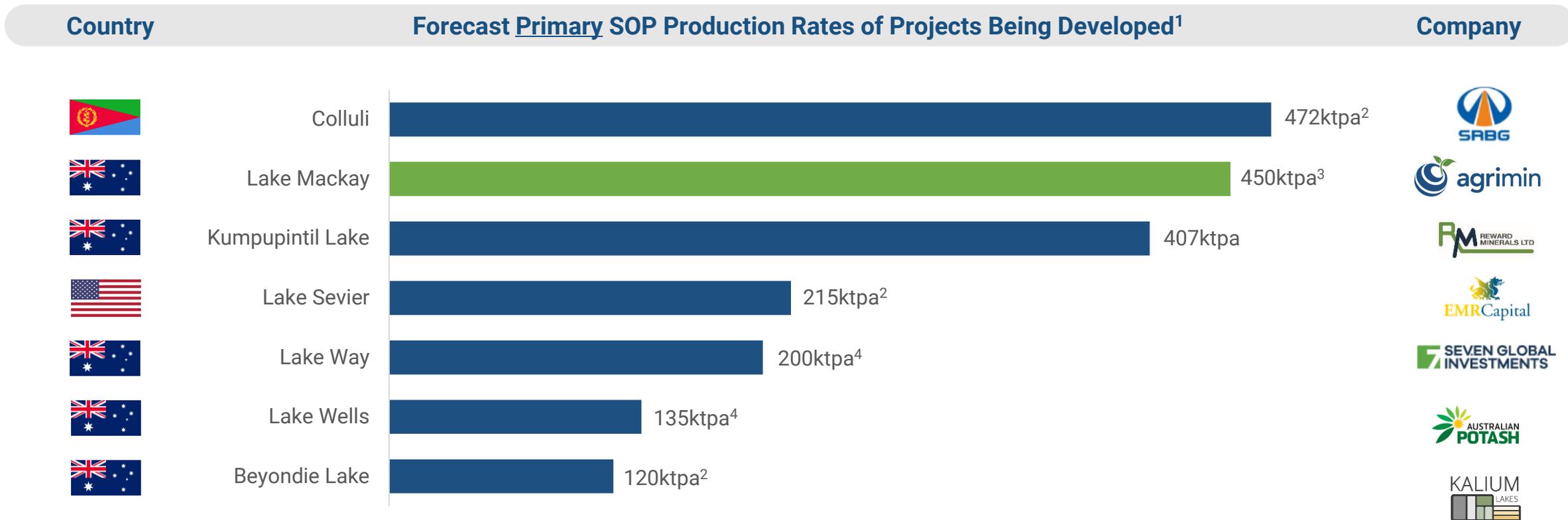
## Ore Reserves for Australian SOP Projects<sup>2</sup>



1. Total Ore Reserve comprises a Proved Ore Reserve of 3.7Mt and a Probable Ore Reserve of 16.3Mt.

2. Refer to Appendix 3 of this presentation for the sources of information and comments.

# Large SOP deposits are very rare



1. Refer to Appendix 2 of this presentation for the sources of information and comments.
2. Stage one production rates.
3. The production target and financial information in this table must be read in conjunction with the Cautionary Statement on page 2 of this presentation.
4. The production targets for Lake Way and Lake Wells exclude any secondary SOP production from the purchase of MOP.

# Industry-leading renewables penetration

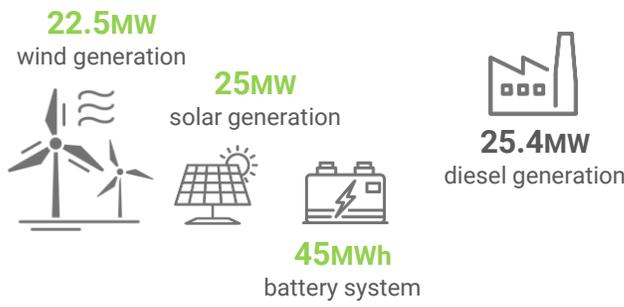
## Supporting the global transition to net zero emissions

- Site power station has a modelled 84% renewable energy penetration rate
- Exceptional wind resource with low seasonal variability defined by long-term on-site wind monitoring
- SOP production to have industry-low emissions of 138kg of CO<sub>2</sub>-e per tonne of SOP, inclusive of haulage and shiploading
- Renewable energy storage options including hydrogen technology are being evaluated to further reduce greenhouse gas emissions during the Project's 40-year life

### Scope 1 and 2 Emissions

#### Site power station<sup>1</sup>

**84% renewable penetration**



84kg of CO<sub>2</sub>-e per tonne of SOP<sup>2</sup>

#### Trucking and shiploading



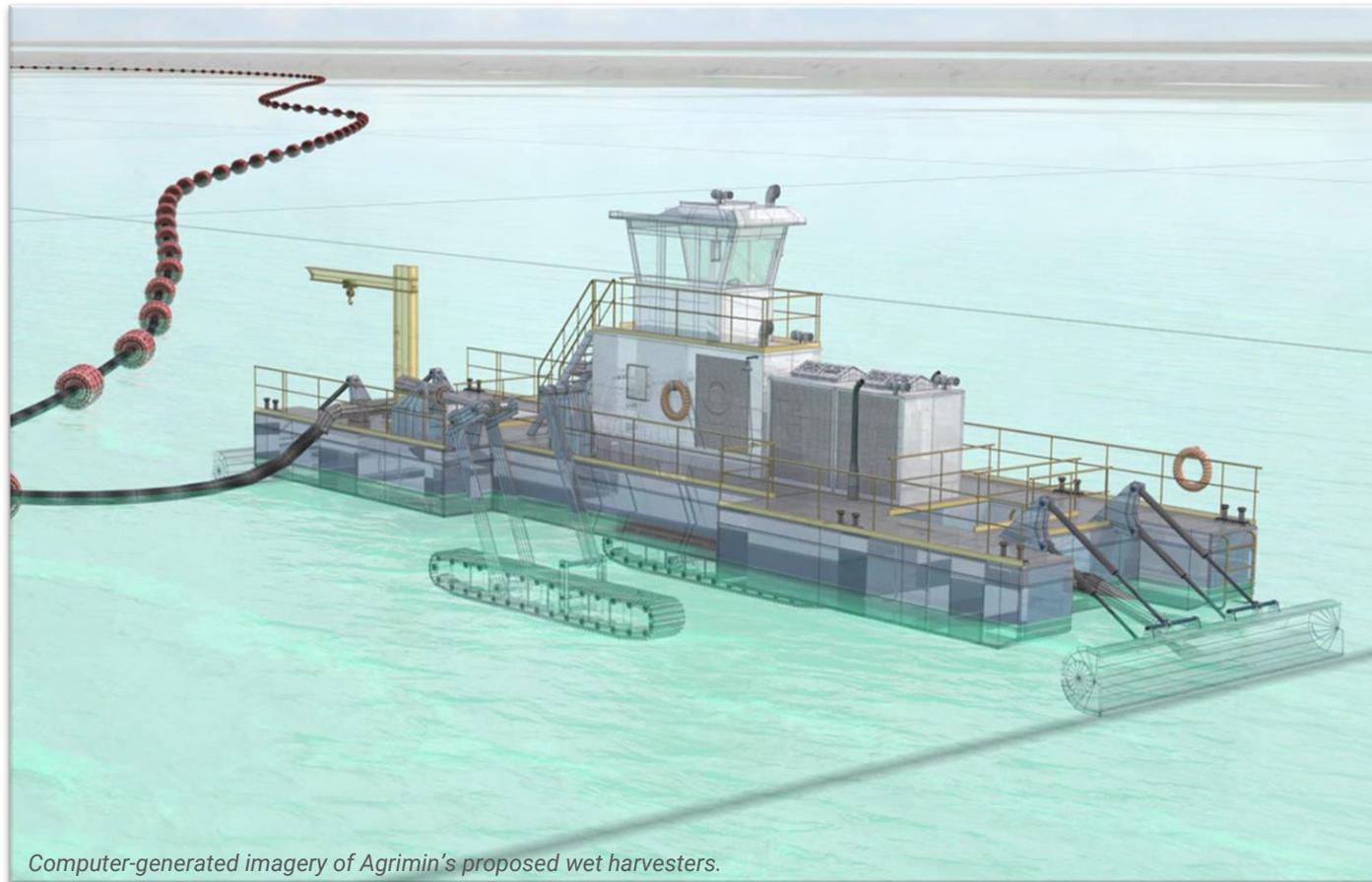
54kg of CO<sub>2</sub>-e per tonne of SOP

1. Indicative megawatts (MW) of installed capacity.  
2. Comprises all site emissions, including the power station, process heating, mobile and fixed diesel equipment.

# Efficient and low-cost salt harvesting

## Conventional technology to drive industry-low operating costs

- Raw potash salts to be fed directly to the processing plant via wet harvesters
- Wet harvesters will deliver major cost benefits, including:
  - Powered by reticulated renewable energy
  - Automation and less manpower
  - Increased overall potassium recoveries
  - Smaller evaporation pond sizes
- Four years of R&D and on-site pilot trials completed, with FEED work underway<sup>1</sup>



Computer-generated imagery of Agrimin's proposed wet harvesters.

1. Refer to the ASX Release on 25 November 2020 for further details in relation to Agrimin's award of the FEED contract for automated wet harvesting equipment to Royal IHC.

# Innovative haulage solution

## Alliance with proven bulk logistics operator



- Mine-to-port haulage to be provided by Newhaul Bulk, a JV between Agrimin and WA trucking specialist<sup>1</sup>
- Haulage JV will deliver major cost savings and reduce risk over the Project's 40-year life
- Newhaul Bulk is committed to maximising employment of local indigenous personnel through driver training and job readiness programs

1. Refer to the ASX Release on 3 December 2019 for further details in relation to the haulage joint venture and strategic alliance.



Computer-generated imagery of Agrimin's proposed road trains.

# Fully integrated port solution

## Mine-to-ship logistics chain to minimise handling

- Port infrastructure to be built on freehold land strategically located at Wyndham Port
- SOP will be transported by a fleet of purpose-built road trains to a dedicated storage facility
- SOP will be loaded onto ships via an integrated barge loading facility and delivered to customers
- Port infrastructure is designed specifically for Agrimin's planned standard and granular SOP products



*Computer-generated imagery of Agrimin's proposed storage shed and barge loading facility.*

# Next steps

## Environmental approval is on the critical path to development

- Based on statutory guidelines the indicative timeline for environmental approval is late 2023
- Front End Engineering Design works have advanced with multiple work streams underway
- Project financing activities are ongoing in parallel



## Working closely with Traditional Owners

### A project of both local and national significance

- **Native Title Agreement** with the Kiwirrkurra People, the native title holders of the land at the Mackay Potash Project<sup>1</sup>
- **Extremely strong long-term support** from Traditional Owners for the Project's development
- Awarded **Major Project Status** by the Australian Federal Government and **Lead Agency Status** by the WA State Government
- More than **\$1.6bn in net public benefits** expected to be generated by the Project<sup>2</sup>

1. Refer to the ASX Release on 9 November 2017 for further details of the Native Title Agreement.  
2. Deloitte Access Economics has undertaken a Cost Benefit Analysis of the proposed Mackay Potash Project.

# Strong Indigenous engagement

## Creating value for all stakeholders

- Agrimin is committed to creating local jobs and delivering sustainable economic opportunities for Traditional Owners
- The Project will create approx. **200 full-time jobs** and an additional **800 jobs** through the regional supply chain
- Project infrastructure will greatly improve regional access for essential services and local business opportunities



# Corporate snapshot



## Board of Directors

**Brad Sampson**  
Non-Executive Director

**Richard Seville**  
Non-Executive Chair

**Mark Savich**  
CEO & Executive Director

**Alec Pismiris**  
Non-Executive Director & Co. Sec.

## Management Team



**Mark Savich**  
Chief Executive Officer



**Michael Hartley**  
General Manager



**Rhys Bradley**  
Chief Commercial Officer



**Graeme Ditri**  
Process Manager



**Greg Hill**  
Project Development Manager

## Capital Structure (19 July 2023)

Market cap.

**\$58m**

Share price (ASX: AMN)

**\$0.20/share**

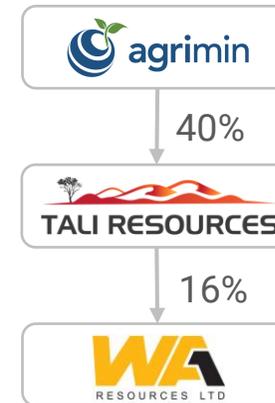
Cash balance<sup>1</sup>

**\$3m**

Shares on issue

**288m**

Investments<sup>2</sup>



Major shareholders



1. Unaudited cash as at 31 March 2023. Agrimin has no debt.

2. Agrimin holds a 40% interest in Tali Resources Pty Ltd which has an exploration Farm-in and Joint Venture Agreement with Rio Tinto Exploration Pty Ltd. Tali also holds a 15.9% shareholding in WA1 Resources Ltd (ASX: WA1).

# Contact

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# Appendix 1. Mineral Resource & Ore Reserve



## Drainable Porosity Mineral Resource Estimate<sup>1</sup> (JORC Code 2012)

Resource Zone	Aquifer Volume (Mm <sup>3</sup> )	Measured & Indicated						Inferred		Total Mineral Resource	
		Measured		Indicated		Total		K (mg/L)	SOP (Mt)	K (mg/L)	SOP (Mt)
		K (mg/L)	SOP (Mt)	K (mg/L)	SOP (Mt)	K (mg/L)	SOP (Mt)				
UZT	10,568	3,473	3.9	3,719	3.3	3,558	7.3	2,969	3.7	3,360	11.0
UZB	28,636	-	-	3,405	6.5	3,405	6.5	3,084	3.6	3,292	10.1
LZ1	48,127	-	-	3,542	9.7	3,542	9.7	3,428	9.0	3,487	18.7
LZ2	248,711	-	-	-	-	-	-	3,382	75.0	3,382	75.0
LZ3	17,003	-	-	-	-	-	-	1,910	8.7	1,910	8.7
<b>Total</b>	<b>353,046</b>	<b>3,473</b>	<b>3.9</b>	<b>3,527</b>	<b>19.5</b>	<b>3,509</b>	<b>23.5</b>	<b>3,232</b>	<b>99.9</b>	<b>3,285</b>	<b>123.4</b>

## Total Porosity Mineral Resource Estimate<sup>1</sup> (JORC Code 2012)

Resource Zone	Aquifer Volume (Mm <sup>3</sup> )	Measured & Indicated						Inferred		Total Mineral Resource	
		Measured		Indicated		Total		K (mg/L)	SOP (Mt)	K (mg/L)	SOP (Mt)
		K (mg/L)	SOP (Mt)	K (mg/L)	SOP (Mt)	K (mg/L)	SOP (Mt)				
UZT	10,568	3,473	16.5	3,719	8.6	3,558	25.1	2,952	10.9	3,375	36.0
UZB	28,636	-	-	3,405	54.6	3,405	54.6	3,084	29.8	3,292	84.4
LZ1	48,127	-	-	3,542	81.4	3,542	81.4	3,428	75.7	3,487	157.0
LZ2	248,711	-	-	-	-	-	-	3,382	787.8	3,382	787.8
LZ3	17,003	-	-	-	-	-	-	1,910	30.4	1,910	30.4
<b>Total</b>	<b>353,046</b>	<b>3,473</b>	<b>16.5</b>	<b>3,501</b>	<b>144.6</b>	<b>3,498</b>	<b>161.1</b>	<b>3,323</b>	<b>934.6</b>	<b>3,349</b>	<b>1,095.7</b>

## Ore Reserve<sup>1</sup> (JORC Code 2012)

Classification	Brine Volume (GL)	K (mg/l)	SOP (Mt)
Proved	602	2,797	3.7
Probable	2,592	2,819	16.3
<b>Total</b>	<b>3,195</b>	<b>2,815</b>	<b>20.0</b>

1. Refer to the Company's ASX Release on 20 January 2020 for full details of the Mineral Resource, to the ASX Release on 21 July 2020 for full details of the Ore Reserve and to page 2 of this presentation for Competent Person Statements.

# Appendix 2. Information sources – production rates



Company	Source	Source Date	Comments
Danakali Ltd (ASX: DNK)	ASX announcement titled “FEED Completion” (page 2)	29 January 2018	Production rate of 472ktpa of SOP is based on Module I development plan. Module II is expected to commence in year 6 of the project and will increase total SOP production rate to 944ktpa.
Agrimin Limited (ASX: AMN)	ASX announcement titled “Agrimin to be the World’s Lowest Cost SOP Producer” (page1)	21 July 2020	Production rate of 450ktpa of SOP is based on proposed development plan.
Reward Minerals Ltd (ASX: RWD)	ASX announcement titled “PFS Confirms LD as a Globally Significant SOP Project” (page 1)	1 May 2018	Production rate of 407ktpa of SOP is based on proposed development plan.
Peak Minerals Inc.	Peak Minerals Inc. “Project Presentation” (page 8)	Q3 2021	Production rate of 215ktpa of SOP is based on Phase 1 development plan. Phase 2 is expected to increase total SOP production rate to 474ktpa.
Sev.en Global Investments Pty Ltd	ASX: S04 announcement titled “Outstanding Bankable Feasibility Study Results for Lake Way” (page 24)	11 October 2019	Production rate of 245ktpa of SOP is based on proposed development plan and <u>includes the purchase and conversion of 42ktpa of MOP.</u>
Australian Potash Ltd (ASX: APC)	ASX announcement titled “Increased Production Delivers Superior Outcomes for LSOP” (page 18)	21 September 2022	Production rate of 205ktpa of SOP is based on proposed development plan and <u>includes the purchase and conversion of 70ktpa of MOP.</u>
Kalium Lakes Ltd (ASX: KLL)	ASX announcement titled “BSOPP Feasibility Study Complete – New 120ktpa Base Case” (page 1)	18 August 2021	Production rate of 120ktpa of SOP is based on Stage 1 development plan. A Stage 2 development is expected to increase total SOP production rate further. No timeline is provided for Stage 2.

# Appendix 3. Information sources – Ore Reserves



Project / Company	Source	Source Date	Comments
Lake Mackay Agrimin Limited (ASX: AMN)	ASX announcement titled "Agrimin to be the World's Lowest Cost SOP Producer" (page 6)	21 July 2020	Total Ore Reserve of 20.0Mt of SOP comprises 3.7Mt in the Proved category and 16.3Mt in the Probable category.
Lake Way Sev.en Global Investments Pty Ltd	ASX: SO4 announcement titled "Outstanding Bankable Feasibility Study Results for Lake Way" (page 1)	11 October 2019	Total Ore Reserve of 2.4Mt of potassium tonnage is entirely in the Probable category. A conversion factor of 2.23 was used to convert potassium tonnage to SOP tonnage.
Beyondie Lake Kalium Lakes Ltd (ASX: KLL)	ASX announcement titled "Beyondie SOP Mine Annual Resource & Reserve Statement" (page 3)	14 October 2022	Total Ore Reserve of 4.89Mt of SOP comprises 1.56Mt in the Proved category and 3.33Mt in the Probable category.
Lake Wells Australian Potash Ltd (ASX: APC)	ASX announcement titled "Increased Production Delivers Superior Outcomes for LSOP" (page 12)	21 September 2022	Total Ore Reserve of 3.6Mt of SOP is entirely in the Probable category.