



**SUVO**

STRATEGIC MINERALS

# AMEC INVESTOR BRIEFING

**27 August 2022**

**ASX: SUV**  
**[suvo.com.au](http://suvo.com.au)**

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# PREMIUM INVESTMENT OPPORTUNITY



**Dual commodity** with strong traditional markets, **emerging 'green' applications**



Established **global off-take network** and **Australia's only operating hydrous kaolin mine**



**Emerging green cement industry**, forecast to be worth **US\$56 billion** by 2027



**Pittong upgrade primed for early 2023**, to meet demand for high quality **hydrous kaolin**



**Targeting emerging markets** with resources that are critical to **decarbonising** the global economy

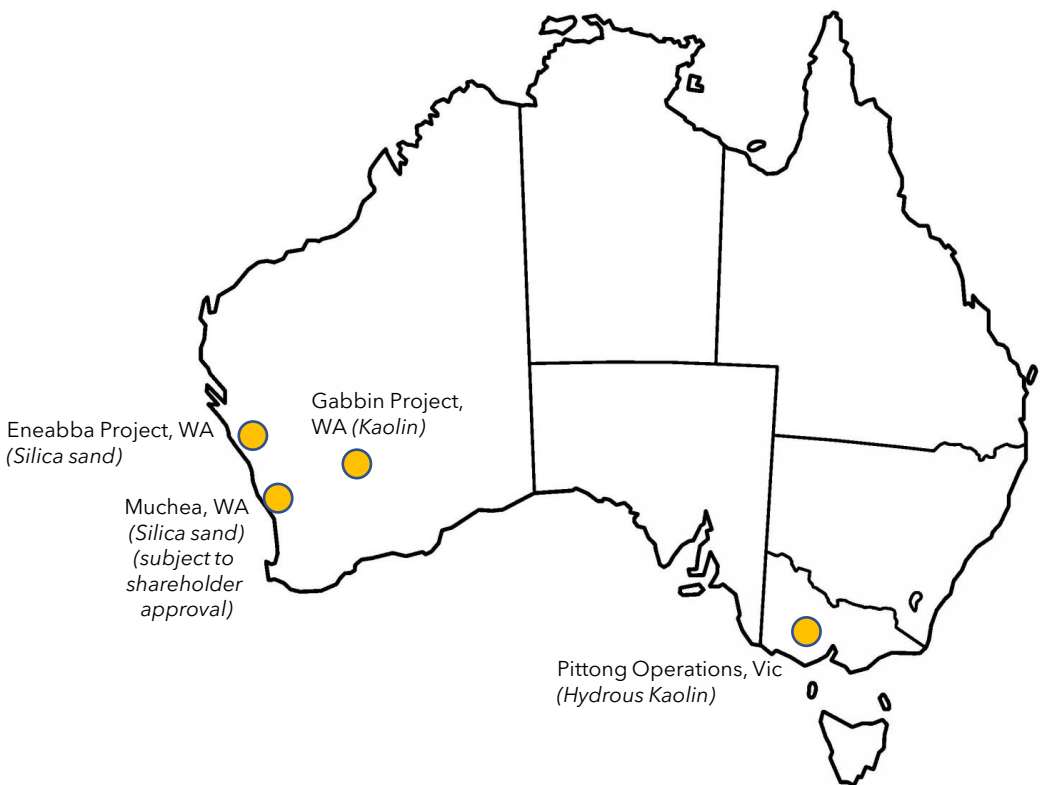


Disciplined & **experienced Board and operational team**



Developing leading global **ESG standards**

## NATIONWIDE FOOTPRINT







**KAOLIN**



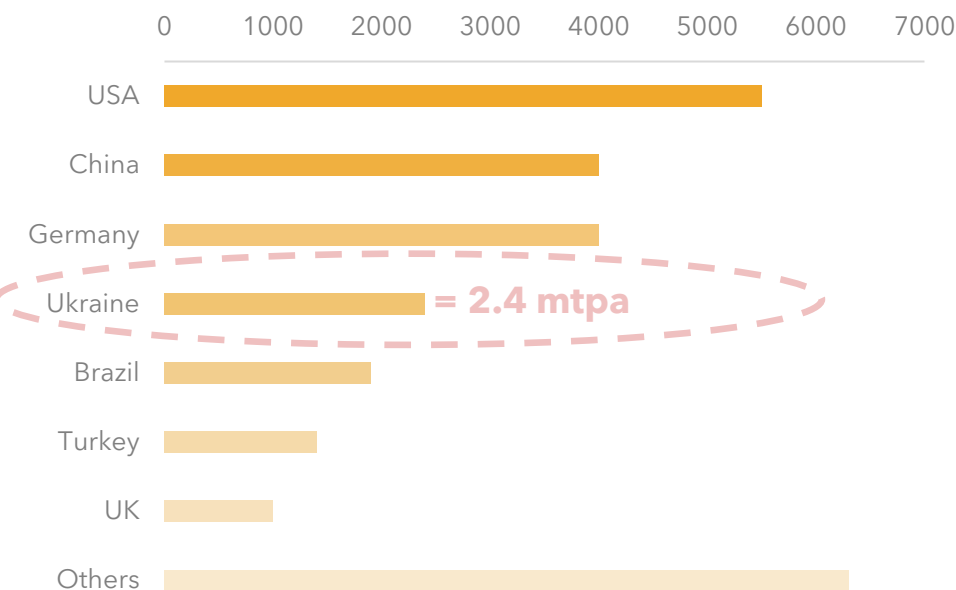
# COMPELLING KAOLIN MARKET

Kaolin is a white clay used in a broad range of industries

## GLOBAL SUPPLY

Est. 2019 global production = ~27mtpa<sup>1</sup>

- **10 countries supply 84%** of processed kaolin globally<sup>1</sup>
- **Ukraine supply 2.4mtpa**



## GLOBAL DEMAND

Est. 2027 global demand = ~38mtpa<sup>1</sup>

**Rising demand in Kaolin industries** is attributed to

- The increase in production of automobiles propelling the demand for **automotive primers**
- High demand for **ceramic tiles** in the construction sector of highly populated and emerging economies
- The spread of COVID-19 fueling the demand for **medicines** and other **pharmaceutical products**
- **Paper packaging** due to e-commerce activities

## Global Kaolin Market <sup>2</sup>

Market Value  
**US\$3.1bn**

CAGR  
**5.5%**

<sup>1</sup> Sources: Research & Markets, USGS, BGS & Roskill via Dr. Ian Wilson  
<sup>2</sup> Source: Kaolin Market Global Forecast to 2025 by Markets and Markets Forecast period 2020 - 2025

Cement production is the world's single biggest industrial cause of carbon pollution, responsible for 8% of global emissions.

Rethinking Cement  
Beyond Zero Emissions <sup>1</sup>



Cement emissions equal to the  
global car fleet



2030 Target

Australian Government will reduce greenhouse gas emissions to  
26-28 per cent below 2005 levels by 2030<sup>2</sup>

## METAKOALIN - GREEN CEMENT SOLUTION

- Australia currently imports high reactivity metakaolin at **US\$530/t** to **US\$840/t**<sup>3</sup> with no onshore production
- Materials Transfer Agreement signed with **Calix Limited** to assist Suvo accelerate metakaolin supply from Pittong
- Conversion and testing of Gabbin kaolin to high reactivity metakaolin completed by **FLSmidth** - confirms value adding prospects of this asset

## RESEARCH, DEVELOPMENT & INDUSTRY PARTNERS



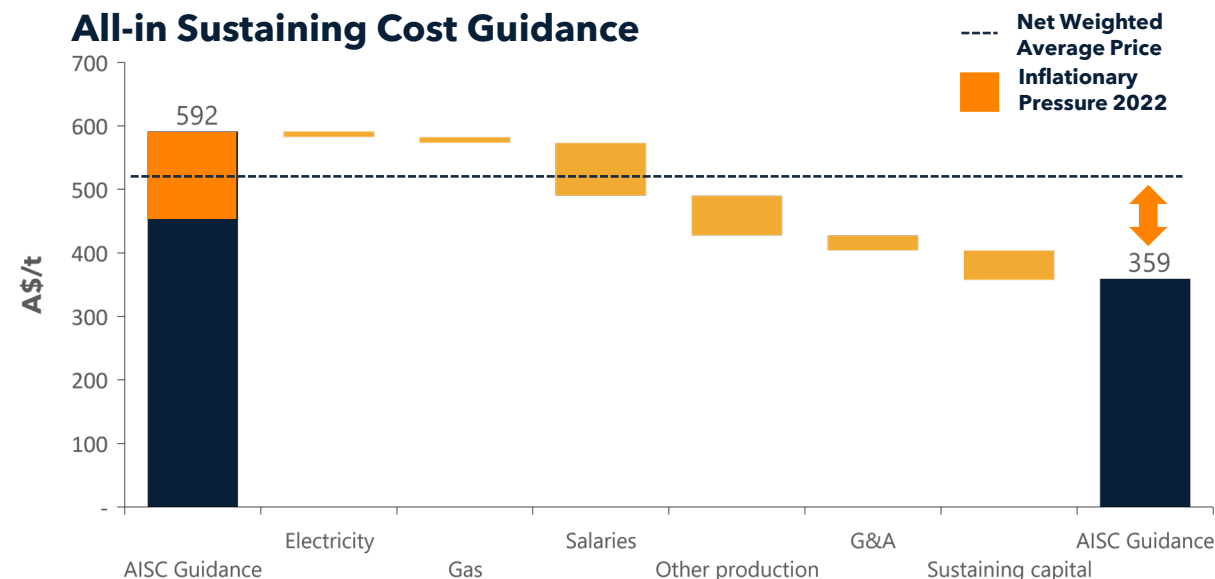
<sup>1</sup> BZE: [https://bze.org.au/research\\_release/rethinking-cement/](https://bze.org.au/research_release/rethinking-cement/)  
<sup>2</sup> <https://awe.gov.au>  
<sup>3</sup> Source: First Test Minerals 25 March 2022

# PITTONG KAOLIN OPERATIONS

Pittong is a 100% owned mining operation, located 40km west of Ballarat (Victoria)



Key Pittong Metrics	Unit	Pre-optimisation	Post-optimisation	
		FY2023 Q1 - Q3	FY2023 Q4	FY2024 Q1 - Q4
<b>Production</b>	Kt	17,085	12,500	50,000
<b>All-in sustaining cost (real)</b>	A\$/t	592	384	359
<b>Net Kaolin price (real)</b>	A\$/t	525	516	516
<b>Revenue (real)</b>	A\$/t	10.9	8.1	32.3
<b>EBITDA (real)</b>	A\$/t	(0.2)	1.8	8.3

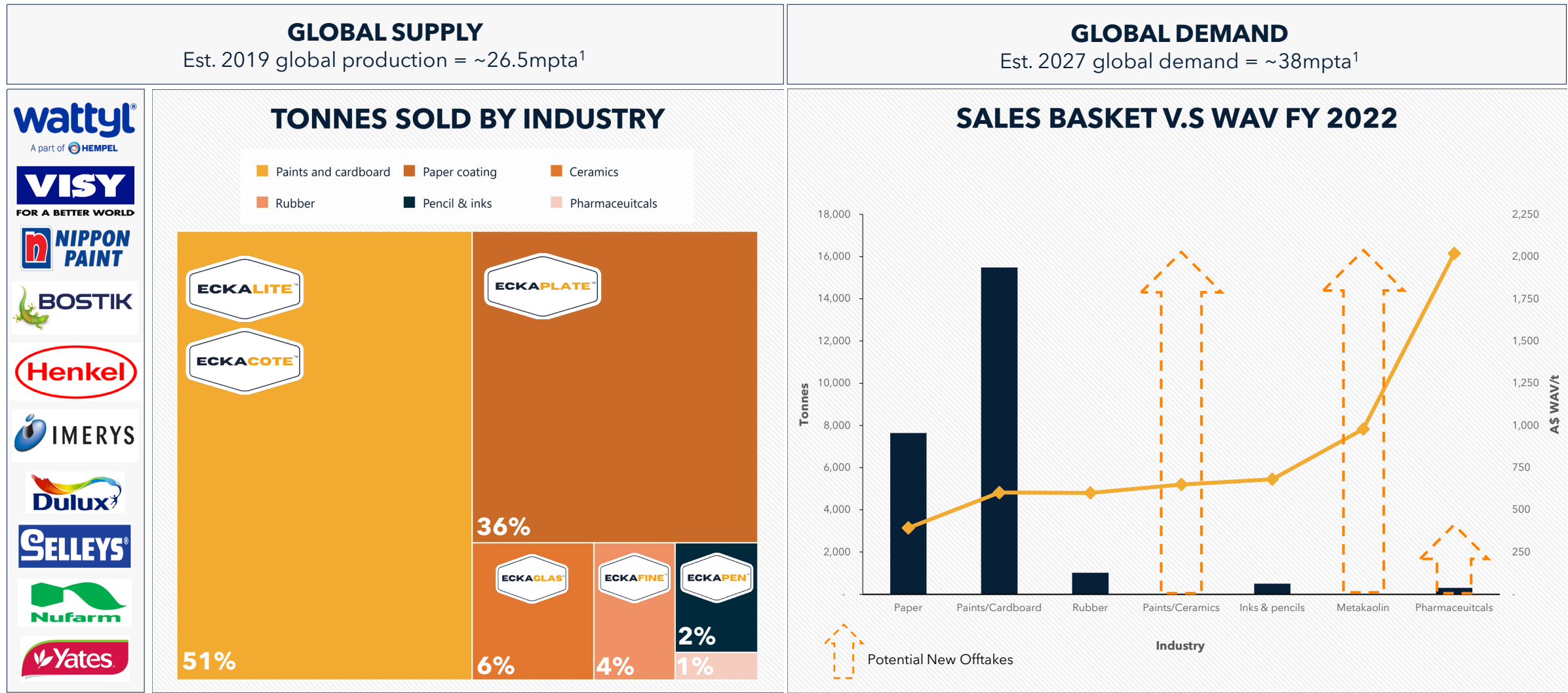


<sup>1</sup> As announced on 22/09/21 and 01/03/22. The Company confirms that it is not aware of any new information or data that materially affects the information included in the announcement and that all material assumptions and technical parameters underpinning the estimates and production targets in the relevant market announcement continue to apply and have not materially changed.



# ESTABLISHED OFFTAKERS

Suvo's Pittong supplies a number of premium hydrous kaolin products to customers all over the world



<sup>1</sup> Sources: Research & Markets, USGS, BGS & Roskill via Dr. Ian Wilson



# GABBIN KAOLIN PROJECT

Gabbin is a 100% owned kaolin project, located 210km from Perth



Product	Test Work	Suitability
Ceramics	✓	✓
Paper coatings	✓	✓
Paint	✓	✓
Cosmetics	✓	✓
Metakaolin	✓	✓



Flash calcined Gabbin hydrous kaolin tested by FLSmidth at various temperatures for suitability for Metakaolin

1 As announced on 27/05/2021. The Company confirms that it is not aware of any new information or data that materially affects the information included in the announcement and that all material assumptions and technical parameters underpinning the estimates and production targets in the relevant market announcement continue to apply and have not materially changed.





# SILICA SANDS



# SILICA SANDS MARKET

**Silica Sand is the most used commodity on the planet behind water**

## SILICA SAND

- The UN estimates that the world currently uses **50 billion tonnes** - or **enough sand to build a wall 27m wide and 27m high around the planet - every year**<sup>1</sup>
- Global Market **US\$14.1 billion, CAGR 6%**
- **SCIRO lists silicon** (found in silica sands) alongside base metals as **critical to global energy transition**<sup>2</sup>
- Global **demand outpacing** exhausted **sustainable supply**
- Traditional **supply of raw silica sand** has been **banned** in several Asian countries due to resource shortages



<sup>1</sup> <https://www.innovationnewsnetwork.com/responsibly-sourcing-silica-sand-meet-global-demand/23979/>

<sup>2</sup> Critical Energy Minerals Roadmap - The Global Energy Transition - Opportunities for Australia's mining and manufacturing process

# SILICA SAND PROJECTS

The Eneabba Project is located 150km south of Geraldton in WA



Muchea<sup>2</sup>, a high purity quartz project, is located 50km north of Perth







CORPORATE



# CORPORATE GROWTH STRATEGY

The following provides an overview of Suvo's short term strategy, which will support the Company's near-term organic growth

## 1. INCREASE PRODUCTION

- Debottleneck Pittong
- Pittong plant optimisation
- Gabbin PFS

## 2. EXPAND EARNINGS

- Expand value add sales
- Expand sales network
- Cost efficiency

## 3. GROW MARKET PRESENCE

- Leverage relationships
- New offtakes (SE Asia)
- Metakaolin evaluation

## 4. GROW SHAREHOLDER VALUE

- Communications overhaul
- Commence research
- Critical minerals position





# ESG COMMITMENT



Revisited **HSE practices** and **updated training**



Energy and water **conservation, renewable energy** feasibility studies and upgrades



Scope 1 and 2 **emission reduction** programs to commence in 2022



**ESG and Sustainability Committee** established in 2022



Evaluating **tailings reclamation** options



Providing **local employment** opportunities and **supporting community initiatives**



# EXPERIENCED BOARD

Seasoned mining, exploration, project development and ESG experience with proven track record of success



**Henk Ludik**

*Executive Chairman*

Over 20 years engineering mining experience including feasibility, optimisation, ESG and corporate finance



**Oliver Barnes**

*Non-Executive Director*

Over 25 years experience in natural resources and asset development, ESG and clean technology commercialisation



**Aaron Banks**

*Executive Director*

Over 20 years contract negotiations and business development, held senior roles in sales, marketing and construction management



**Ian Wilson**

*Non-Executive Director*

Over 45 years experience as an economic geologist, with extensive experience identifying, developing and operating large scale kaolin operations



# CORPORATE OVERVIEW

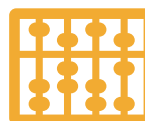
## KEY INFORMATION

TICKER	SUV
SECTOR	Industrial Minerals
SHARE PRICE	\$0.073 (high of the day <sup>1</sup> )
MARKET CAP	A\$50m
SHARES ON ISSUE	680,407,121
OPTIONS ON ISSUE	150,285,253
PERFORMANCE RIGHTS	25,400,000

## CORPORATE THEMATICS



Target **critical scarce resources**, continue to develop pipeline of **near term projects**



Targeting **first quartile** position on the **cost curve**



Focused on **creating value** for its stakeholders via market-leading **ESG strategy**



Focused on products essential to **decarbonising** the global economy





# APPENDICES



# KEY RISKS

The following material risks have been identified for the Pittong project

RISK	MITIGANT
RESERVE RISK	<ul style="list-style-type: none"><li>• Large homogenous resource</li><li>• More than one licensed resource at Pittong</li></ul>
MINING LICENSE RISK	<ul style="list-style-type: none"><li>• The Trawalla mining license was granted in 2002. The license requires renewal every 20 years</li><li>• The Company has submitted all relevant documentation to the department for renewal of the Trawalla license for a further 20 years</li><li>• As per clause 29 of the act, if an application for renewal of a license is lodged before the license expires (which is our case), the license continues in operation until the application is granted and registered or refused</li><li>• All relevant documentation has been submitted</li><li>• The license remains in good standing with no outstanding claims or issues against the license</li><li>• Suvo's announcement dated 1 March 2022 confirmed resources of 5.69Mt of kaolinised granite at the Pittong mine</li></ul>
MARKET RISK	<ul style="list-style-type: none"><li>• 50 years of supplying more than 26 companies</li><li>• Stable large market</li><li>• Growing global deficit</li><li>• Only Australian operation</li></ul>
CONSTRUCTION RISK	<ul style="list-style-type: none"><li>• Long lead items ordered</li><li>• Existing infrastructure in place</li><li>• Existing operations will not be impacted by the upgrade and optimisation project</li></ul>
PROCESS COMPLEXITY	<ul style="list-style-type: none"><li>• 50 years of existing operations experience at Pittong</li><li>• Existing process will be expanded</li><li>• Relatively simple mining and processing operation</li><li>• Access to leading experts in the global kaolin market</li></ul>