

14 MARCH 2018

## Company Update

Platina Resources Limited (ASX: PGM, “Platina” or the “Company”) is pleased to release a new investor presentation which highlights the significant scandium and cobalt potential at its 100% owned Owendale Project located 80 km northwest of Parkes, New South Wales Australia.

Executive Director, Chris Hartley, will be presenting these materials at the Australian Energy and Battery Minerals Conference in Brisbane today. This presentation will be available on the Platina website.

Platina has commenced formal consultation processes for the Owendale project in the project area at both Tullamore and Condobolin, meeting with local communities and government officials. Feedback from attendees at all meetings was encouraging with several issues being raised that will be addressed as the studies on the Owendale project progress. The Platina team was assisted at these meetings by consultants from RW Corkery & Co, who have been retained to assist with the Environmental Impact Assessment process. An initial visit by representatives of the Ausenco team also occurred to familiarise them with the project locations.

### **Remuneration arrangements for Executive Director, Chris Hartley**

Platina announced on 5 January 2018 that Chris Hartley would be acting as an interim executive director, pending the appointment of a new CEO. The Company has agreed that Chris Hartley’s remuneration will be at the rate of \$1,100 per day (or pro-rata thereof), for 12 days per calendar month, effective from 5 January 2018.

Platina advises that the domestic and international search for a new CEO is well underway and expects to have an appointment by end of April 2018. The search has identified a shortlist of strong candidates from a broad search within and outside Australia.

### **For further information, please contact:**

Chris Hartley, Executive Director

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Email: [admin@platinaresources.com.au](mailto:admin@platinaresources.com.au)



## Australian Energy & Battery Minerals

Investor Conference March 2018

ASX: PGM

# Corporate snapshot

Platina is well positioned to become the premier new-tech metals producer on the ASX with its flagship 100%-owned cobalt and scandium project at Owendale

## Financial Information (28 Feb 2018)

<b>Share price</b>	<b>AUD 0.125</b>
52 week low/high	AUD 0.077 / AUD 0.265
Number of shares (undiluted) <sup>1</sup>	264.1M
<b>Market Capitalisation</b>	<b>AUD 33M</b>
Cash (31-Dec-17)	AUD 6.5M
Debt (31-Dec-17)	Nil

Source: IRESS

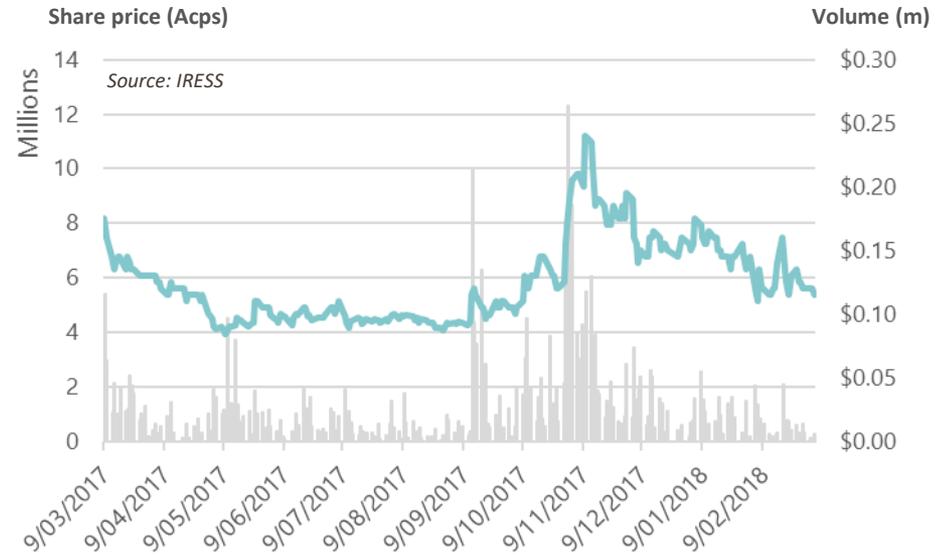
Note:

<sup>1</sup> Excludes 6m unlisted call options exercisable at AUD 0.20 before 28 April 2019 and 5m unlisted call options exercisable at AUD 0.20 before 31 December 2019

## Board of Directors

Brian Moller – Non-Executive Chairman
Chris Hartley – Executive Director
Paul Jurman – Non-Executive Director / Company Secretary

## Share price performance (1 year)

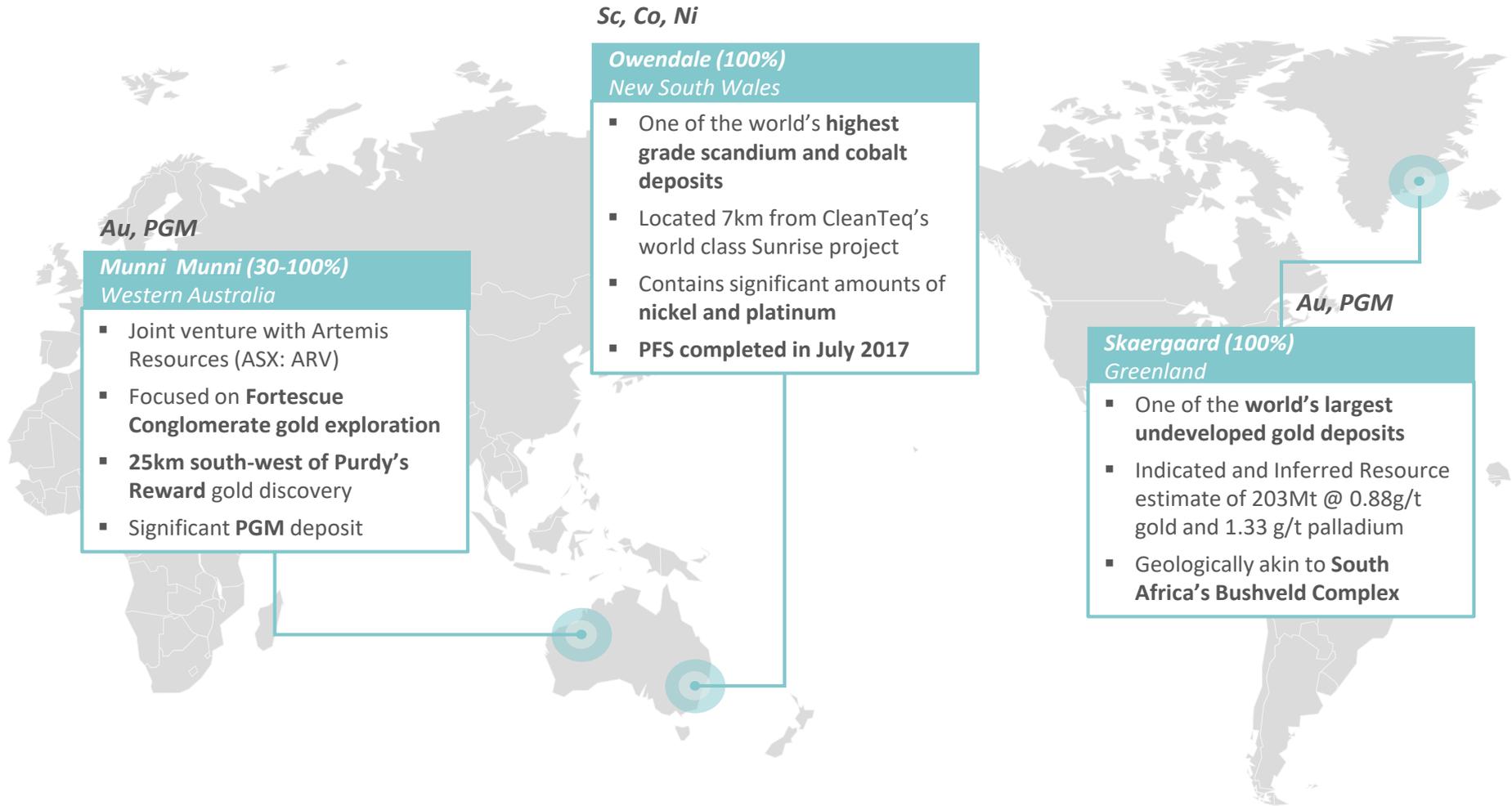


## Top shareholders (March 2018)

	%
Cairnglen Investments	14.9%
Electrum Global Holdings	7.9%
Shopfitting Headquarters Pty Ltd	4.8%
Yandal Investments – veteran prospector Mark Creasy	3.0%

# Asset portfolio

Platina holds a high-quality portfolio of cobalt, scandium, gold and platinum group metals projects in Australia and Greenland



# Owendale: Overview

## Owendale is one of the highest grade scandium deposits in the world

- 7 km away from Sunrise, Clean Teq's (ASX: CLQ) project
- High grade laterite-hosted scandium deposits
- Geology is characterised by scandium and cobalt in laterite developed over an Alaskan type intrusive
- **Completed in 2017**
  - Metallurgical test work April
  - Resource and feasibility drilling program April
  - Prefeasibility study July
  - Maiden Ore Reserves September
  - Process plant design optimisation December
- **Program for 2018**
  - Prelim Environmental Assessment – lodged NSW Dept Planning & Environment March
  - DFS commenced – completion December
  - Pilot processing of 6 t sample April – June

### Owendale project location



### Scandium JORC Resource (300ppm Sc cut-off)

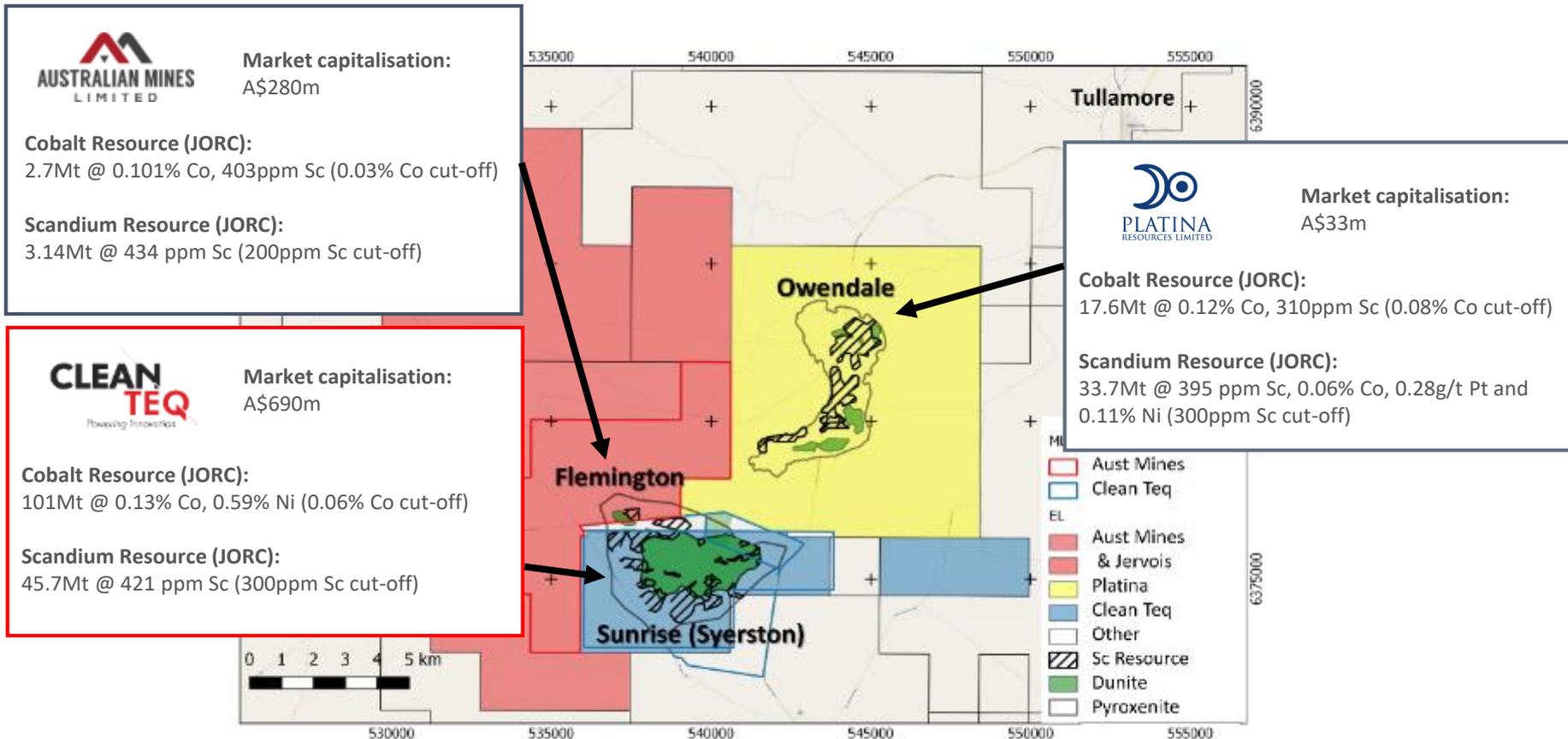
	Mt	Sc ppm	Co %	Pt g/t	Ni %
Measured	6.9	440	0.07	0.42	0.13
Indicated	11.6	400	0.07	0.26	0.11
Inferred	15.1	375	0.05	0.23	0.09
<b>Total</b>	<b>33.7</b>	<b>395</b>	<b>0.06</b>	<b>0.28</b>	<b>0.11</b>

### Cobalt JORC Resource (0.08% Co cut-off)

	Mt	Sc ppm	Co %	Pt g/t	Ni %
Measured	3.9	370	0.14	0.50	0.31
Indicated	6.2	345	0.12	0.27	0.21
Inferred	7.5	245	0.11	0.22	0.21
<b>Total</b>	<b>17.6</b>	<b>310</b>	<b>0.12</b>	<b>0.30</b>	<b>0.23</b>

# Owendale: Location

Owendale project is located north of CleanTeq's Sunrise project and Australian Mines' Flemington project



Source: Australian Mines Flemington resource announcements (31 October 2017, 31 March 2017), Clean Teq Sunrise announcements (9 October 2017), Platina announcements (9 August 2017)

Notes:

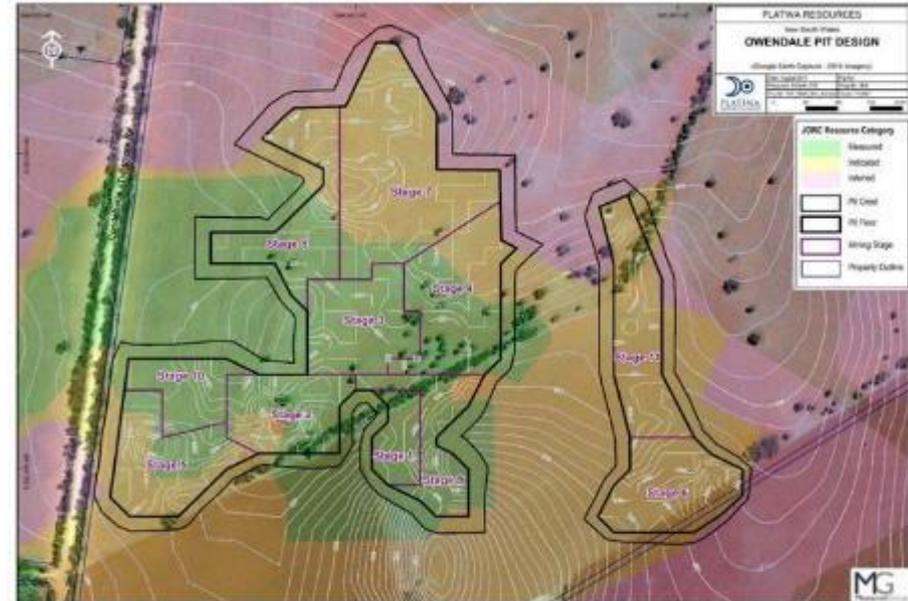
1. Market capitalisations as at close on 28 February 2018

# Owendale: Ore Reserves

## Recent maiden Ore Reserve announcement

- Positions Owendale as one of the largest and highest grade scandium and cobalt developments globally
- Optimised Ore Reserve model resulted in highly favourable key development metrics for a 50ktpa\* case with:
  - 35 years of mine life at very high scandium grades (645 ppm Sc)
  - Low strip ratio of 0.9:1 for first 10 years of Ore Reserves production
  - Mining plan optimised for high cobalt grades averaging 0.18% Co in the first 5 years

>400ppm Sc cut off	Dry Mt	Sc ppm	Cot %	Ni %	Sc <sub>2</sub> O <sub>3</sub> t*	Co t	Ni t
Proven	2.22	560	0.09	0.13	1,896	2,027	2,905
Probable	1.76	540	0.08	0.13	1,463	1,483	2,252
<b>Total</b>	<b>3.99</b>	<b>550</b>	<b>0.09</b>	<b>0.13</b>	<b>3,359</b>	<b>3,510</b>	<b>5,157</b>



Parameter	Units	Quantity
Recovery - Scandium	%	90.3%
Recovery - Nickel	%	83.1%
Recovery - Cobalt	%	85.7%
Recovery - Platinum	%	0.0%
Payable - Scandia	%	100%
Payable - Nickel	%	75%
Payable - Cobalt	%	80%
Price - Scandia	USD /kg	1,500
Price - Nickel	USD /lb	4
Price - Cobalt	USD /lb	25
Royalties and licence fees	%	5%

\* Ore Reserve case of 50ktpa varies from the current development proposal which stages development from 25 to 90 ktpa

# Scandium

## Scandium is a niche industrial metal

### What is scandium used for ?

- Demand **potentially increasing rapidly given the superior strength and thermal characteristics** of using scandium in materials manufacturing
- **Scandium is used in a number of existing, high-end applications, including:**
  - Solid oxide fuel cells (SOFCs) – Bloom Energy
  - Aluminium alloys, used in aircraft, automobiles and sporting equipment
  - High power metal halide lamps and lasers



# Owendale: Development plan overview

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## Basis of the feasibility study and environmental impact statement

- **Scandium focus**
  - Scandium is high value but has a limited market with enormous potential
  - Cobalt could be a significant by-product
- **Staged development to match market demand**
  - Small start with plant size 25 kt/a ore feed laid out for debottlenecking and expansion
  - Build second train when market grows to total 90 kt/a ore
- **Long term sustainable development strategy**
  - Current Ore Reserves sufficient for over 40 years of production from 4 paddocks
  - Strategy is to enhance and not dislocate the existing communities
  - Looking for long term local workforce for consistency in mining and processing
- **Innovate to address the issues**
  - Separate mining and processing to 2 locations

# Owendale: Mine and Process Plant Locations

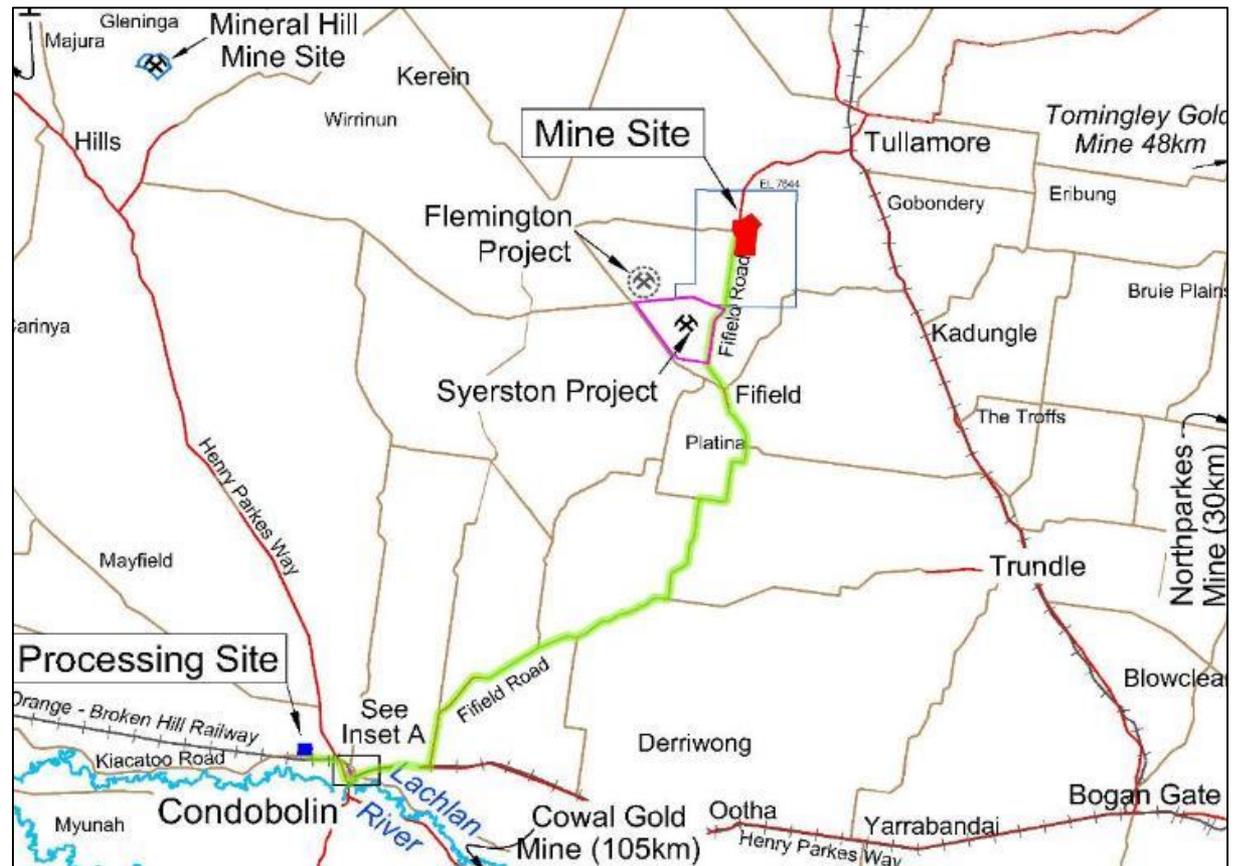
## Small volumes allow for economical remote processing

- Existing disused industrial site in Condobolin

- Infrastructure available
- Workforce has mining history

- Road in good condition

- Used for agricultural transport
- Minor modifications needed



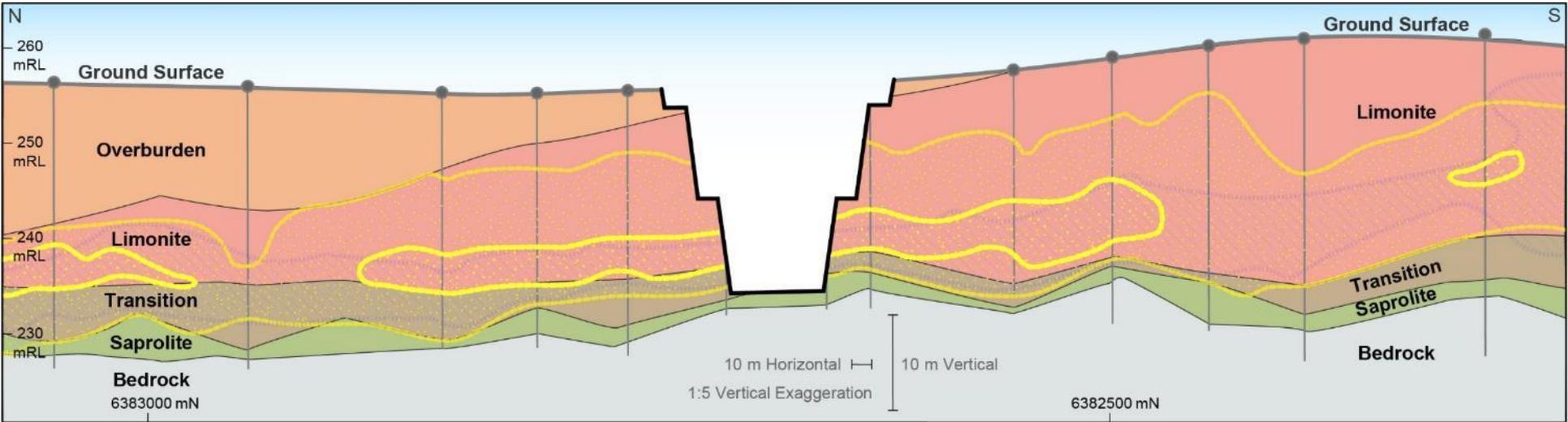
# Owendale: Development plan overview

## Basis of the feasibility study and environmental impact statement

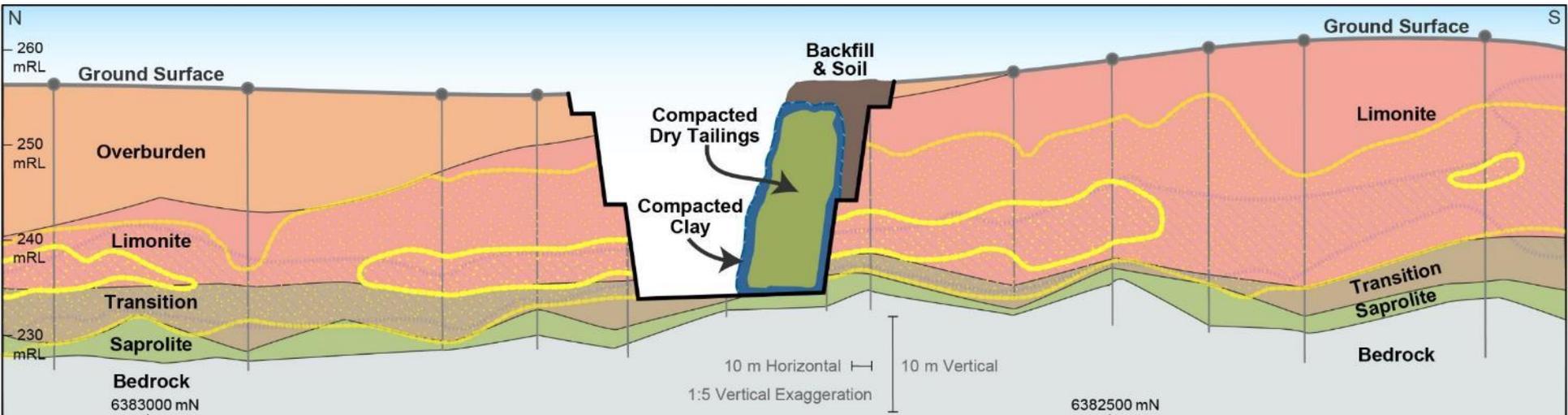
- **Tullamore-Fifield mine site**
  - Small shallow quarry in soft rock
  - Campaign mining with a low and high grade stockpile area
  - All mining and ore haulage/residue return undertaken on day shift only
  - Mine and haulage workforce easily accommodated in the community and local area
  - Mine workforce can be adjusted to accommodate the agricultural peak seasonal needs
- **Off-site processing at Condobolin**
  - An existing disused industrial site
  - Available water/power/rail/housing for potentially 70 staff
  - Good mine to plant road access already rated for haulage
  - Reduced total road transport
    - Avoids bussing in staff for an onsite processing plant
    - Avoids reagent transport from rail/main roads
  - Production process drying residue is practical for back-haulage to the mine for placement

# Owendale:

## Mining example



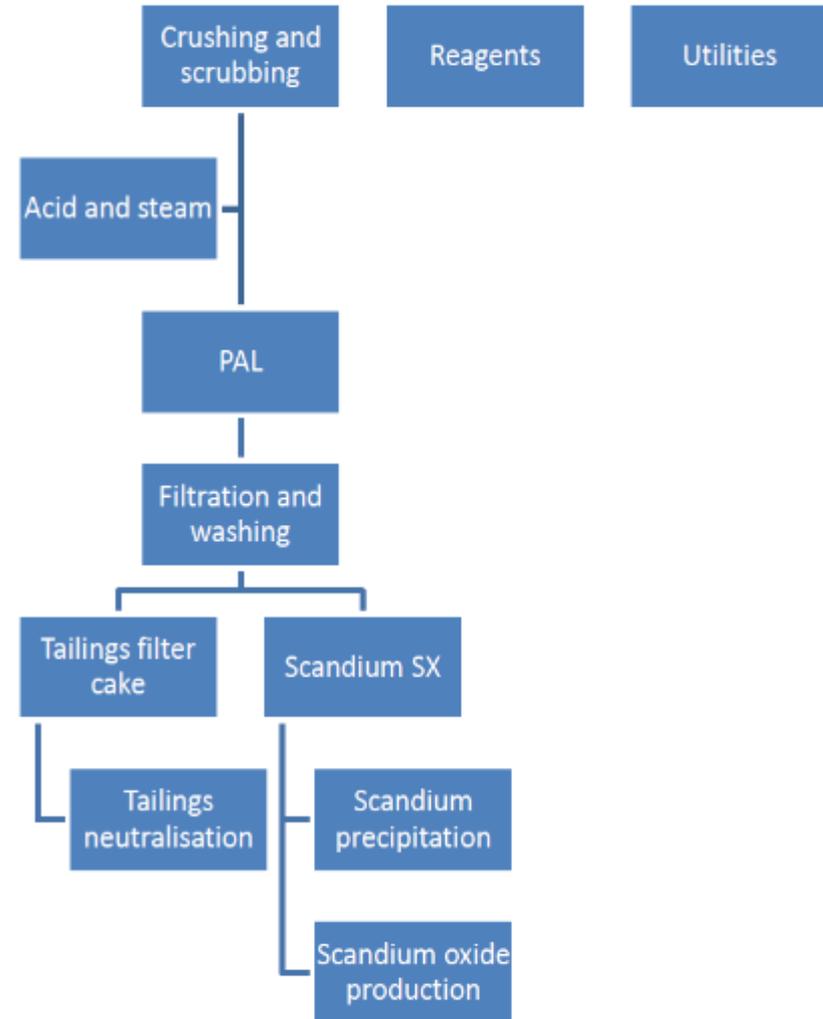
## Mining and backfill example



# Process flowsheet

## HPAL - High pressure acid leach with solvent extraction

- Acid digestion
- High temp and pressure to recover most acid
- Metal extraction from solutions
- Limestone neutralisation
- Dewater residue



# Owendale: Feasibility Study Status

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## Most field work is now complete for the Feasibility Study

- Resource drilling and Mineral Resource
- Ore Reserves (mining study)
- Mine geotechnical mine drilling - stiff clay with good stable walls
- Mine water monitoring holes - monitoring ongoing
- Material characterisation
  - no material of concern because the ancient laterite material is stable
  - materials suitable as clay seals and construction
- Mine ecological survey - no aspects of significant concern as mining is in existing paddocks
- Topography survey - detailed topography data collected in 2016
- 6 t bulk sample for pilot test collected and dispatched to Perth
- Contract for engineering study awarded to Ausenco

# Owendale vs. Sunrise vs. Flemington: key stats

## Clean Teq and Platina have similar projects and are both pre-production

- Platina released its PFS for Owendale **only 10 months after Clean Teq's Sunrise PFS release**
- The difference between the proposed Sunrise and Owendale developments is that Clean TeQ will construct a cobalt processing plant (USD 780M) whereas **Owendale is expected to focus its development on Scandium**

	Owendale	Sunrise	Flemington
<b>Ownership</b>	100% Platina	100% Clean Teq	100% Aust. Mines
<b>Project status</b>	DFS due 2H 2018	DFS due Q2 2018	Resource drilling
<b>Geology</b>	All Similar with laterite developed over Alaskan type intrusive		
<b>Capex</b>	USD 94M (Sc, focused development)	USD 784M (Co, Ni focused development)	N/A
<b>Associated minerals</b>	Sc, Co, Ni	Co, Ni, Sc	Co, Sc



# Platina Resources – Positioned to Grow

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## Projects development strategies are sustainable

- **Scandium focus for Owendale**
  - Staged development to match market demand
  - Capital required likely to be financeable for our size
  - Market development will follow high value opportunities
- **Greenland**
  - Developing a work program to reinterpret deposit
  - Changes to climate have opened up opportunity
- **WA Gold**
  - Partner completing work commitment for earn-out
  - Next steps to be determined

# Disclaimer

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## Cautionary and Forward-Looking Statements

This presentation contains “forward-looking information” which may include, but is not limited to, statements with respect to the future financial or operating performance of Platina Resources Limited (“Platina”), its subsidiaries and its projects, the future price of platinum group metals (“PGM’s”), the estimation of mineral resources, operating and exploration expenditures, costs and timing of development of new deposits, costs and timing of future exploration, requirements for additional capital, government regulation, environmental risks, reclamation expenses, title disputes or claims and limitations of insurance coverage. Often, but not always, forward-looking statements can be identified by the use of words such as “plans”, “expects”, “is expected”, “budget”, “scheduled”, “estimates”, “forecasts”, “intends”, “anticipates”, or “believes” or variations (including negative variations) of such words and phrases, or state that certain actions, events or results “may”, “could”, “would”, “might” or “will” be taken, occur or be achieved. Forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of Platina and/or its subsidiaries to be materially different from any future results, performance or achievements expressed or implied by the forward looking statements. Such factors include, among others, general business, economic, competitive, political and social uncertainties; the actual results of current exploration activities; conclusions of economic evaluations; changes in project parameters as plans continue to be refined; future prices of PGM’s; possible variations of ore grade or recovery rates; failure of plant, equipment or processes to operate as anticipated; accident, labor disputes and other risks of the mining industry; and delays in obtaining governmental approvals or financing or in the completion of development or construction activities. Although Platina has attempted to identify important factors that could cause actual actions, events or results to differ materially from those described in forward-looking statements, there may be other factors that could cause actions, events or results to differ from those anticipated, estimated or intended. Forward-looking statements contained herein are made as of the date of this presentation and Platina disclaims any obligation to update any forward-looking statements, whether as a result of new information, future events or results or otherwise. There can be no assurance that forward-looking statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements.

Platina undertakes no obligation to update forward-looking statements if circumstances or management’s estimates or opinions should change. Accordingly, the reader is cautioned not to place undue reliance on forward-looking statements.

## COMPETENT PERSON STATEMENT

The information in this presentation is based on, and fairly represents information and supporting documentation prepared by Mr. John Horton, a Competent Person who is a Fellow of The Australasian Institute of Mining and Metallurgy. Mr. Horton has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves”. Mr. Horton consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.

The information in this presentation that relates to the Mineral Resources and Ore Reserves were last reported by the Company in compliance with the 2012 Edition of the JORC Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves in market releases dated as follows:

- Owendale Maiden Scandium and Cobalt Reserve – 13 September 2017
- Owendale Measured, Indicated and Inferred Mineral Resource – 9 August 2017
- Platina delivers positive pre-feasibility study (PFS announcement) for the Owendale Scandium and Cobalt Project – 10 July 2017
- Skaergaard Indicated and Inferred Mineral Resource – 23 July 2013

The Company confirms that it is not aware of any new information or data that materially affects the information included in the market announcements referred above and further confirms that all material assumptions underpinning the production targets and all material assumptions and technical parameters underpinning the ore reserve and mineral resource estimates contained in those market releases continue to apply and have not materially changed.

Statements regarding Platina Resources’ plans with respect to its mineral properties are forward-looking statements. There can be no assurance that Platina Resources’ plans for development of its mineral properties will proceed as currently expected. There can also be no assurance that Platina Resources’ will be able to confirm the presence of additional mineral deposits, that any mineralisation will prove to be economic or that a mine will successfully be developed on any of Platina Resources’ mineral properties.