



PLATINA
RESOURCES LIMITED

ASX Code: PGM

Owendale Scandium Project

March 2015

Robert Mosig Managing Director CEO

SCANDIUM

21	44.956
2831	1.3
1539	
Sc	
[Ar]3d4s ²	
2.99	3

expecting big demand with
increased uses from a
consistent supply

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's Statement

The information in this announcement that relates to the Owendale Indicated and Inferred Mineral Resource is extracted from the report entitled ASX Release "PGM Owendale Updated Resource Estimate" created on 3 October 2013 and is available to view on www.platinareources.com.au. The report was issued in accordance with the 2012 Edition of the JORC Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. 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, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the 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 presented have not been materially modified from the original market announcement.

Cautionary Statement

There is a low level of geological confidence associated with Inferred Mineral Resources and there is no certainty that further exploration work will result in the determination of Indicated Mineral Resources or that the production target itself will be realised.

Issued Capital	
ASX	PGM
Shares	140.9 Million
Options (listed)	82.6 Million
Options (unlisted)	3.5 Million
Share Price (18 Feb)	7.5c
Cash (31 Dec 2014)	\$0.52 Million
Market Capitalisation	\$9 Million

6 Month Price Chart



Major Shareholders	
Electrum Ltd	20.6%
Cairnglen Investments	12.7%
Yandal Investments	6.0%
Sino Portfolio Intl.	6.0%
HSBC Custody Nominees	5.8%
Top 10	58.8%

Directors & Management

Reg Gillard <i>BA, FAICD, FACPA, JP</i>	Non-Executive Chairman
Rob Mosig <i>MSc, FAusIMM, FAICD</i>	Managing Director
Brian Moller <i>LLB (Hons)</i>	Non-Executive Director
Mark Dugmore <i>MSc, MAusIMM, MAIG</i>	Exploration Manager



🌀 **Reg Gillard, Non-Executive Chairman – BA, FAICD, FACPA, JP**

- *Reg has more than 30 years' experience in the formation, governance and financial maintenance of exploration and mining companies throughout the world.*



🌀 **Robert W. Mosig, Managing Director – MSc, FAusIMM, FAICD**

- *Rob is a geologist with more than 30 years' experience in Platinum Group Metals, gold and diamond exploration within Australasia.*



🌀 **Brian Moller, Non-Executive Director – LLB (Hons)**

- *Brian is a corporate partner in the Brisbane-based law firm Hopgood Ganim where he has been a partner since 1983. He practices almost exclusively in the corporate area with an emphasis on capital raising, mergers and acquisitions.*



🌀 **Mark Dugmore, Exploration Manager – MSc, MAusIMM**

- *Mark is a geologist with more than 25 years' experience in gold and base metals exploration within Australia as well as internationally.*



- *Aerospace/Transport*
 - *Scandium Aluminium alloys*
- *Energy/Electrical*
 - *Scandium Stabilised Zirconium in Solid Oxide Fuel Cells (SOFC)*



1 IA 1A		21 2831 1539										44.956 1.3										2 VIIA 8A									
H Hydrogen 1.00794		Sc Scandium 44.955912																				He Helium 4.002602									
3 IIA 2A	4 IIIA 3A	5 IIIA 3A	6 IIIA 3A	7 IIIA 3A	8 IIIA 3A	9 IIIA 3A	10 IIIA 3A	11 IIIA 3A	12 IIIA 3A	13 IIIA 3A	14 IVA 4A	15 VA 5A	16 VIA 6A	17 VIIA 7A	18 VIIA 8A	19 IIA 2A	20 IIA 2A														
Li Lithium 6.941	Be Beryllium 9.0122	B Boron 10.811	C Carbon 12.011	N Nitrogen 14.007	O Oxygen 15.999	F Fluorine 18.998	Ne Neon 20.180	Na Sodium 22.990	Mg Magnesium 24.305	Al Aluminum 26.982	Si Silicon 28.086	P Phosphorus 30.974	S Sulfur 32.06	Cl Chlorine 35.45	Ar Argon 39.948	K Potassium 39.098	Ca Calcium 40.078														
21 IIIB 3B	22 IIIB 3B	23 IIIB 3B	24 IIIB 3B	25 IIIB 3B	26 IIIB 3B	27 IIIB 3B	28 IIIB 3B	29 IIIB 3B	30 IIIB 3B	31 IIIB 3B	32 IIIB 3B	33 IIIB 3B	34 IIIB 3B	35 IIIB 3B	36 IIIB 3B	37 IIIB 3B	38 IIIB 3B														
Sc Scandium 44.956	Ti Titanium 47.88	V Vanadium 50.94	Cr Chromium 52.00	Mn Manganese 54.94	Fe Iron 55.85	Co Cobalt 58.93	Ni Nickel 58.69	Cu Copper 63.55	Zn Zinc 65.38	Ga Gallium 69.72	Ge Germanium 72.64	As Arsenic 74.92	Se Selenium 78.96	Br Bromine 79.90	Kr Krypton 83.80	Rb Rubidium 85.47	Sr Strontium 87.62														
39 IIIB 3B	40 IIIB 3B	41 IIIB 3B	42 IIIB 3B	43 IIIB 3B	44 IIIB 3B	45 IIIB 3B	46 IIIB 3B	47 IIIB 3B	48 IIIB 3B	49 IIIB 3B	50 IIIB 3B	51 IIIB 3B	52 IIIB 3B	53 IIIB 3B	54 IIIB 3B	55 IIIB 3B	56 IIIB 3B														
Y Yttrium 88.91	Zr Zirconium 91.22	Nb Niobium 92.91	Mo Molybdenum 95.94	Tc Technetium 98.91	Ru Ruthenium 101.07	Rh Rhodium 102.91	Pd Palladium 106.91	Ag Silver 107.87	Cd Cadmium 112.41	In Indium 114.82	Sn Tin 118.71	Sb Antimony 121.76	Te Tellurium 127.60	I Iodine 126.91	Xe Xenon 131.29	Cs Cesium 132.91	Ba Barium 137.33														
57 IIIB 3B	58 IIIB 3B	59 IIIB 3B	60 IIIB 3B	61 IIIB 3B	62 IIIB 3B	63 IIIB 3B	64 IIIB 3B	65 IIIB 3B	66 IIIB 3B	67 IIIB 3B	68 IIIB 3B	69 IIIB 3B	70 IIIB 3B	71 IIIB 3B	72 IIIB 3B	73 IIIB 3B	74 IIIB 3B														
La Lanthanum 138.91	Ce Cerium 140.12	Pr Praseodymium 140.91	Nd Neodymium 144.24	Pm Promethium 144.91	Sm Samarium 150.36	Eu Europium 151.96	Gd Gadolinium 157.25	Tb Terbium 158.93	Dy Dysprosium 162.50	Ho Holmium 164.93	Er Erbium 167.26	Tm Thulium 168.93	Yb Ytterbium 173.05	Lu Lutetium 174.97																	
89 IIIB 3B	90 IIIB 3B	91 IIIB 3B	92 IIIB 3B	93 IIIB 3B	94 IIIB 3B	95 IIIB 3B	96 IIIB 3B	97 IIIB 3B	98 IIIB 3B	99 IIIB 3B	100 IIIB 3B	101 IIIB 3B	102 IIIB 3B	103 IIIB 3B	104 IIIB 3B	105 IIIB 3B	106 IIIB 3B														
Ac Actinium 227.03	Th Thorium 232.04	Pa Protactinium 231.04	U Uranium 238.03	Np Neptunium 237.05	Pu Plutonium 244.06	Am Americium 243.06	Cm Curium 247.07	Bk Berkelium 247.07	Cf Californium 251.08	Es Einsteinium 252.08	Fm Fermium 257.10	Md Mendelevium 258.10	No Nobelium 259.10	Lr Lawrencium 262.11																	
Lanthanide Series		Actinide Series																													
Alkali Metal		Alkaline Earth		Transition Metal		Basic Metal		Semimetals		Nonmetals		Halogens		Noble Gas		Lanthanides		Actinides													

Limited reliable supply of Sc, mostly as a by-product, means high prices in a very small 'high-end' market...

🌀 *Current supply from by-products*

- *Most production as by-product (due to low concentration) from China, Ukraine*
- *No primary mine productionyet!*
- *Owendale laterite high-grade is potential new primary source. Grade is King!*

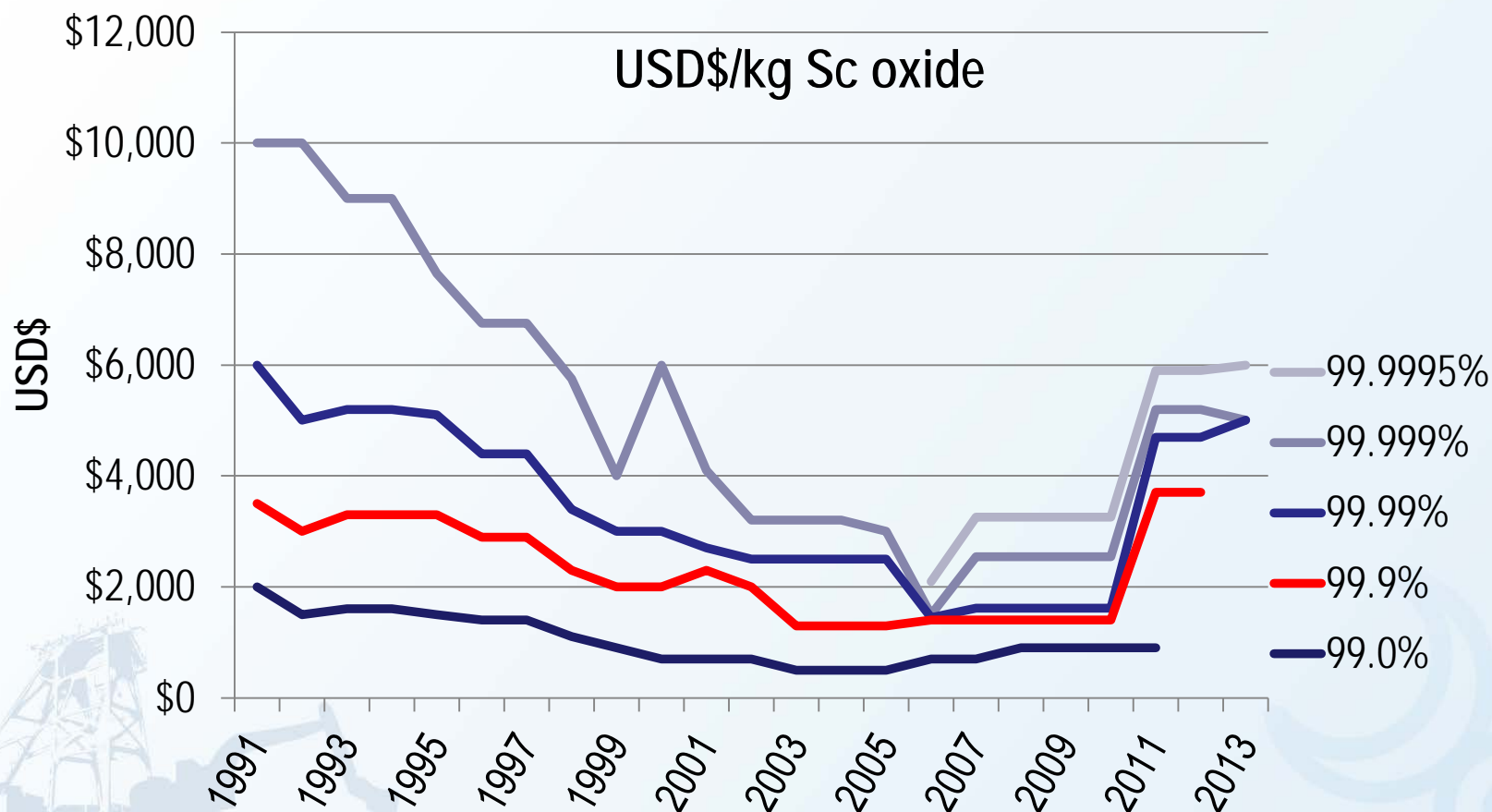
🌀 *Demand is growing*

- *Sc-Aluminium alloys: aerospace components, sports equipment is leading use of Sc*
- *Electrical/Energy: growing future market for fuel cells (Solid Oxide FC)*
- *Lights: high-power metal halide lamps and lasers*

🌀 *Price*

- *USGS quotes Sc_2O_3 as US\$3,700/kg for 99.9% purity (2012)*
- *Global scandium consumption ~10-15 tonnes pa*
- *Current high price prevents wider application. Owendale high-grade is key!*

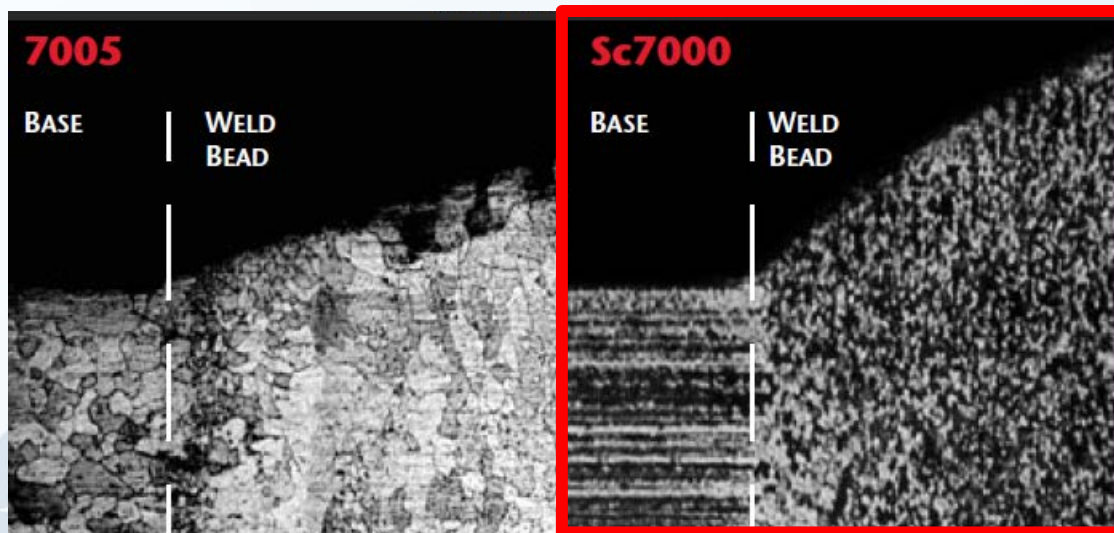
- Owendale, as the largest deposit with the highest Sc grade proposing to use proven conventional, high recoveries technologies will be able to be the price-setter to enable introduction of wider applications at a lower Sc price!



Source: USGS. PFL Advisors

❧ *Sc-reinforced Al alloys represent new generation of high-performance alloys with advantages over other Al alloys*

- *Stronger (triples strength with as little as 0.5% Sc)*
- *Excellent corrosion resistance*
- *Strengthens welds and excellent weldability*
- *Limits excessive grain growth that occurs in heat-affected zone*
- *Lower density*
- *Reduces aircraft weights by 10-15% and operating costs significantly*



Significant grain refinement strengthens welds and eliminates hot cracks.

Sc dissolves in Al melt simply by reducing Sc_2O_3 directly in the melt.

✪ Enormous growth potential for Sc

• Commercial aerospace

- Boeing & Airbus forecasting up to 36,770 new airplanes by 2033
- Estimate between 70 and 700 kg of Sc oxide is required per plane depending on aircraft size

• Military aerospace

- Initial use in Russian aircraft
- Future use promising

• Commercial automotive

- Large potential market

✪ Potential annual market by 2025 maybe 250 tonnes* of Sc₂O₃

BOEING

CURRENT MARKET OUTLOOK
(2014 – 2033)



WORLD FLEET TO DOUBLE IN SIZE OVER THE NEXT 20 YEARS
36,770 new airplanes / \$5.2 trillion



NEW AIRPLANES TO BE DELIVERED BY 2033 ▼



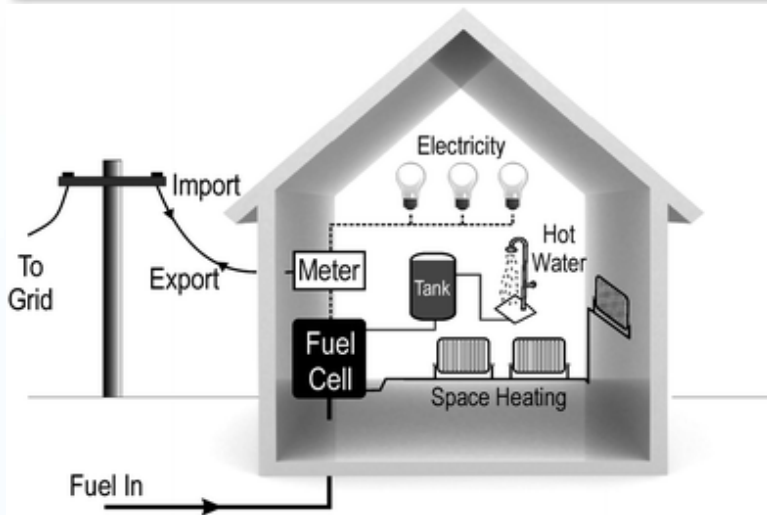
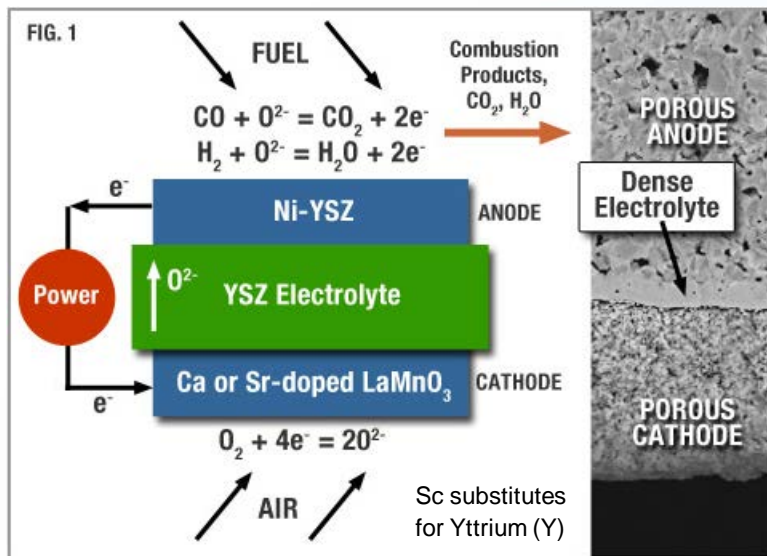
20-year demand for 31,358 new passenger and freight aircraft

20-year new deliveries of passenger and freight aircraft



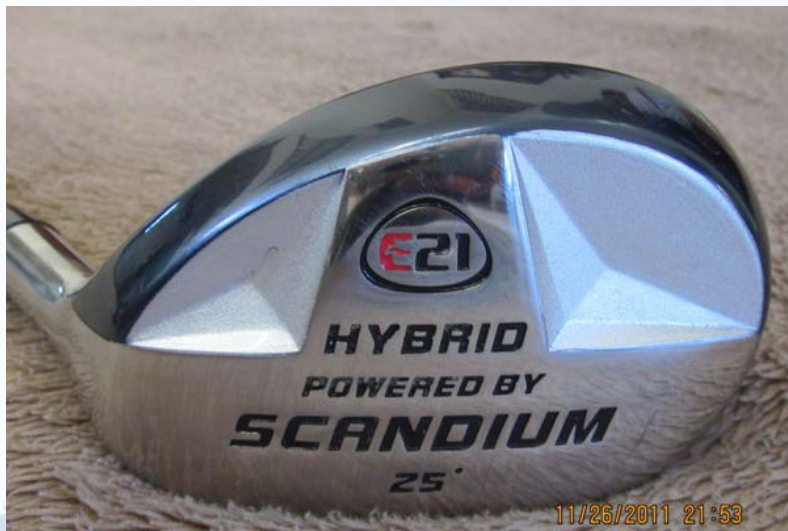
Market Value of
\$4.6
trillion

Passenger aircraft (2-100 seats)
Jet freight aircraft (>10 tons)
Source: Airbus GMP



- Potential to -

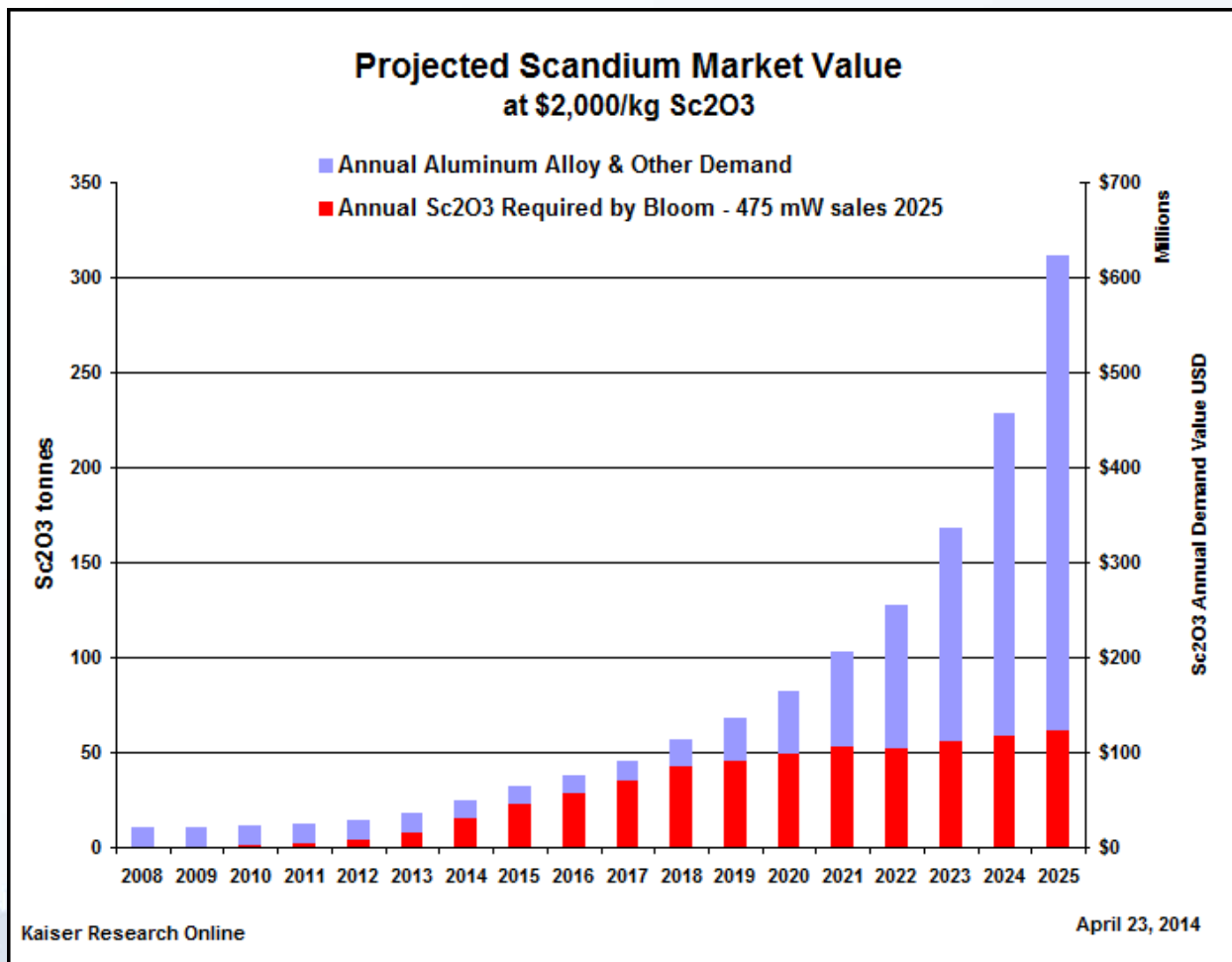
 - revolutionise the powering of the USA
 - replace the internal combustion engine
- A device that uses hydrogen and oxygen to create electricity
- Offers cleaner, more efficient, fuel-flexible, localised power alternatives
- Sc-stabilised zirconium (SSZ) used by Bloom Energy in electrolyte makes SOFCs more efficient
- Bloom Energy is the market-leading provider of SOFCs and customers include
 - FedEx, Walmart, Target, Apple, Google, ebay, Yahoo, Bank of America, Honda, CocaCola, US Dept of Defence plus more...
- Potential annual market required by Bloom Energy by 2025 maybe 60 tonnes* of Sc2O3



Additional growth potential for Sc_2O_3 scandium oxide in other markets

- *Sporting equipment*
 - *Golf clubs, bicycles, baseball bats.*
Currently the leading use
- *Lighting*
 - *High-power metal halide lamps and lasers*
- *Additive Layer Manufacturing*
 - *3-D printed components*
- *Electricity grid transmission*
 - *High tension wires*
- *Ship-building*
 - *Good anti-corrosion properties*

- *Potential annual demand for Sc2O3 in aircraft and SOFC markets could reach > 300 tonnes by 2025 (USD\$600 million market)*



Source: Kaiser Research

- Australian and Canadian projects are in early development stage and financing not expected to commence before 2015 in the best case
- Their total capacity is expected to reach 130 tonnes pa after 2015
- Russia has several less ambitious projects with estimated production of <5 tonnes pa

Investment Project	Production date	CAPEX	Annual Capacity
Platina Resources	2017	\$58 M*	30 t (99.9%)
Metallica Minerals	On hold	\$465 M*	50-65 t (99.9%)
EMC Metals	2016+	\$67 M*	36 t (90-99%)
Clean TeQ	2018	Unknown	Unknown
Orbite Aluminae Inc (Canada)	2015+	\$500 M	50 t Sc (red sludge)
ARMZ (Russia)	2012-2023	\$20 M	N/A
Sumitomo (Phillipines)	2014	\$550 M	0.24 t
Hydro-metall plant (Russia)	2012-2015	\$70 M	N/A
Kackanarsky GOK (Russia)	N/A	N/A	1 t Sc oxide (red sludge)
Energetichaskie (Russia)	2012-2014	\$20 M	1 t Sc oxide (red sludge)

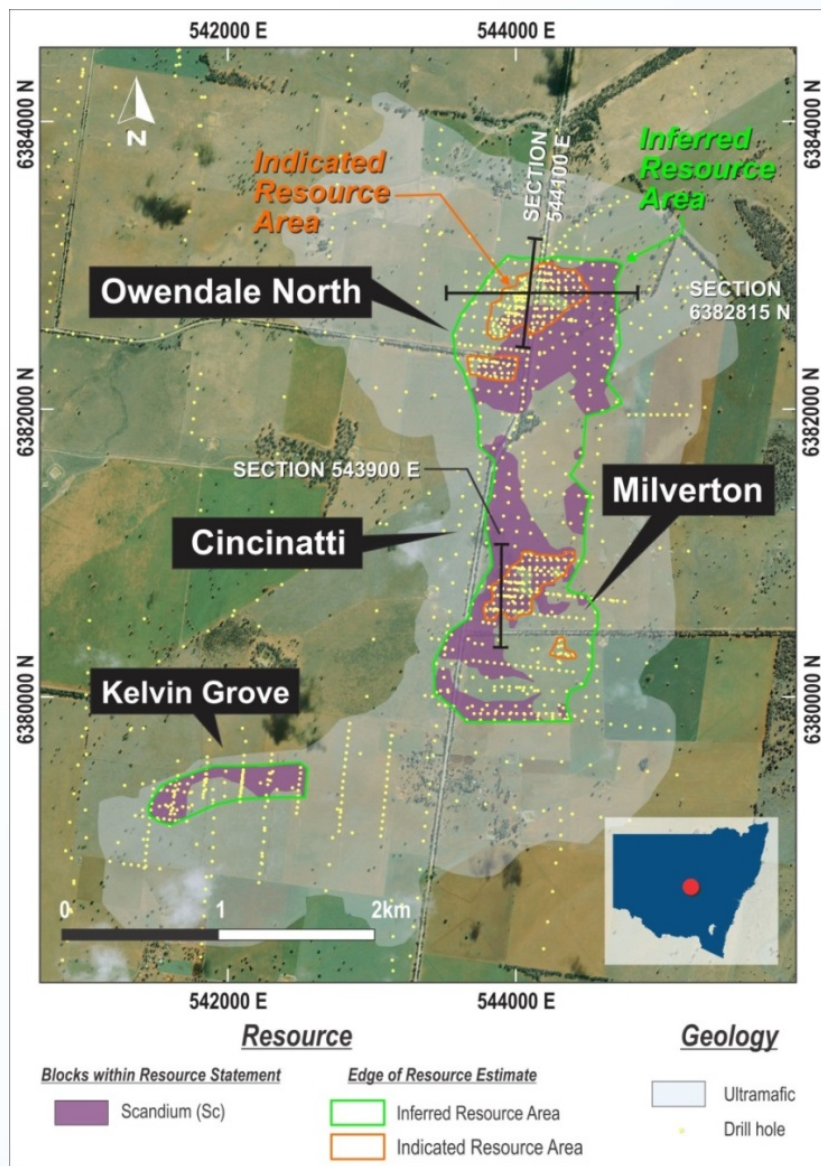


- ❧ *Extremely high grade Scandium*
- ❧ *Large near surface tonnage with additional ore available*
- ❧ *Simple open pit mining*
- ❧ *Close to water & power supplies*
- ❧ *Favourable Capex and Opex*



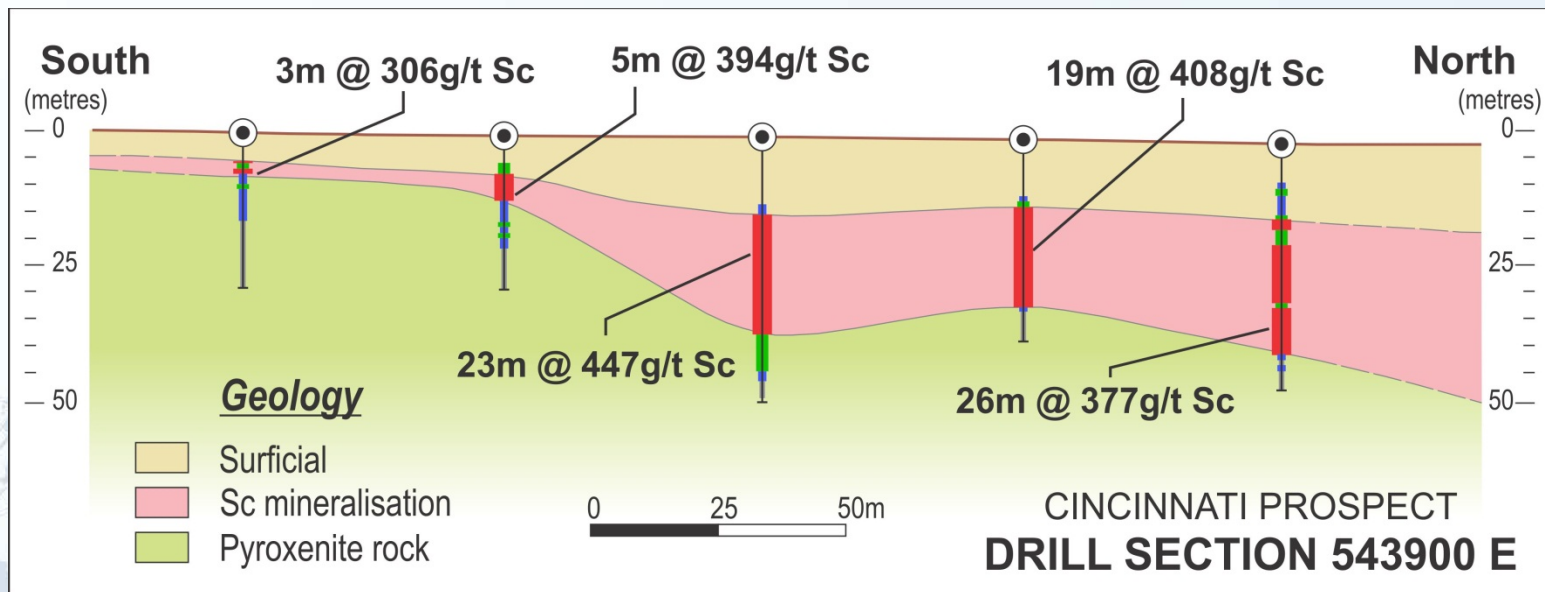
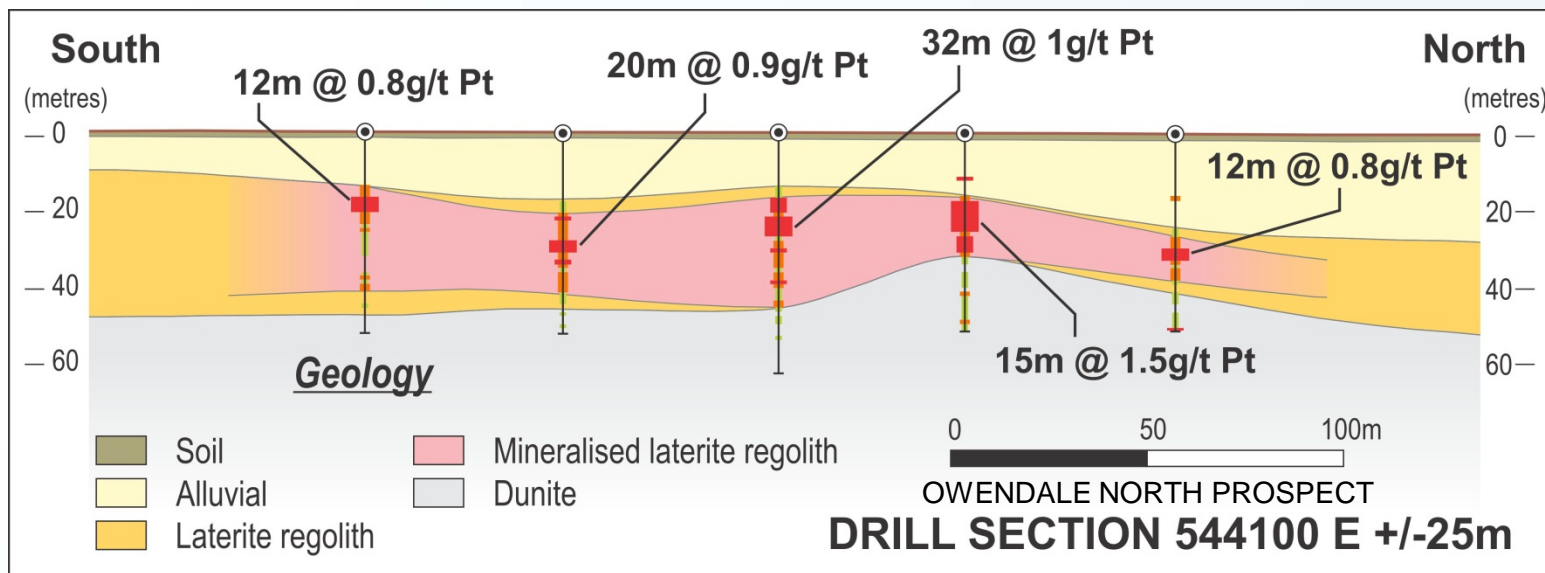
Resource Classification	Tonnage (Mt)	Pt g/t	Sc ppm	Ni %	Co %	Pt koz	Sc t	Sc2O3 t	PtEq g/t
Indicated	4.2	0.53	401	0.13	0.06	72	1698	2605	0.93
Inferred	19.4	0.33	380	0.11	0.06	205	7385	11327	0.69
TOTAL	23.7	0.36	384	0.11	0.06	277	9083	13932	0.73

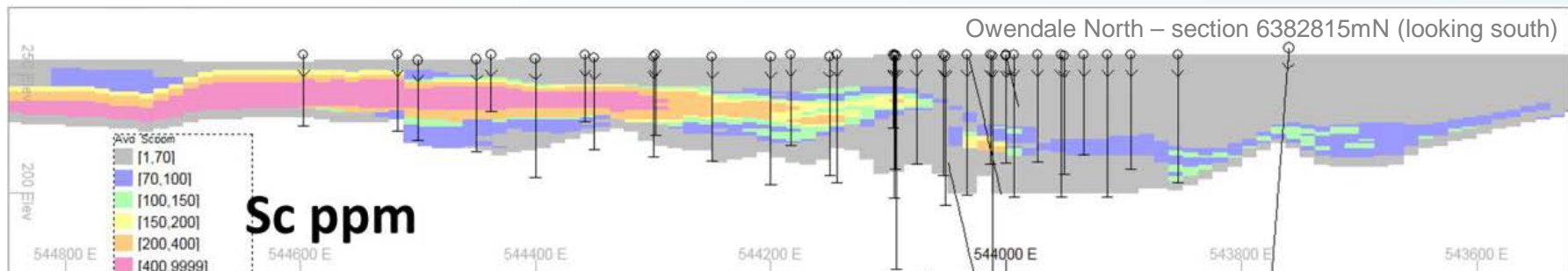
- World's largest, highest grade laterite-hosted scandium deposit proposing to use proven conventional technologies
9,100 tonnes of contained scandium metal (13,932 tonnes Sc2O3)
- Overlaps the platinum resource
- High-grade (>500 ppm Sc) portion can satisfy >100 years of world demand at current demand levels of 10-15 tpa



- Mineralisation hosted within a laterite profile of a weathered ultramafic sequence
- Extends from 1m to 55m depth
- Grade! Grade! Grade!
 - At high grade (500 ppm) cut-off, the resource supports significant annual production

Resource Ind & Inf	Mt	Pt g/t	Sc ppm	Ni %	Co %	Pt koz	Sc t	Sc2O3 t	PtEq g/t
TOTAL	2.3	0.37	557	0.17	0.09	27	1281	1965	0.94



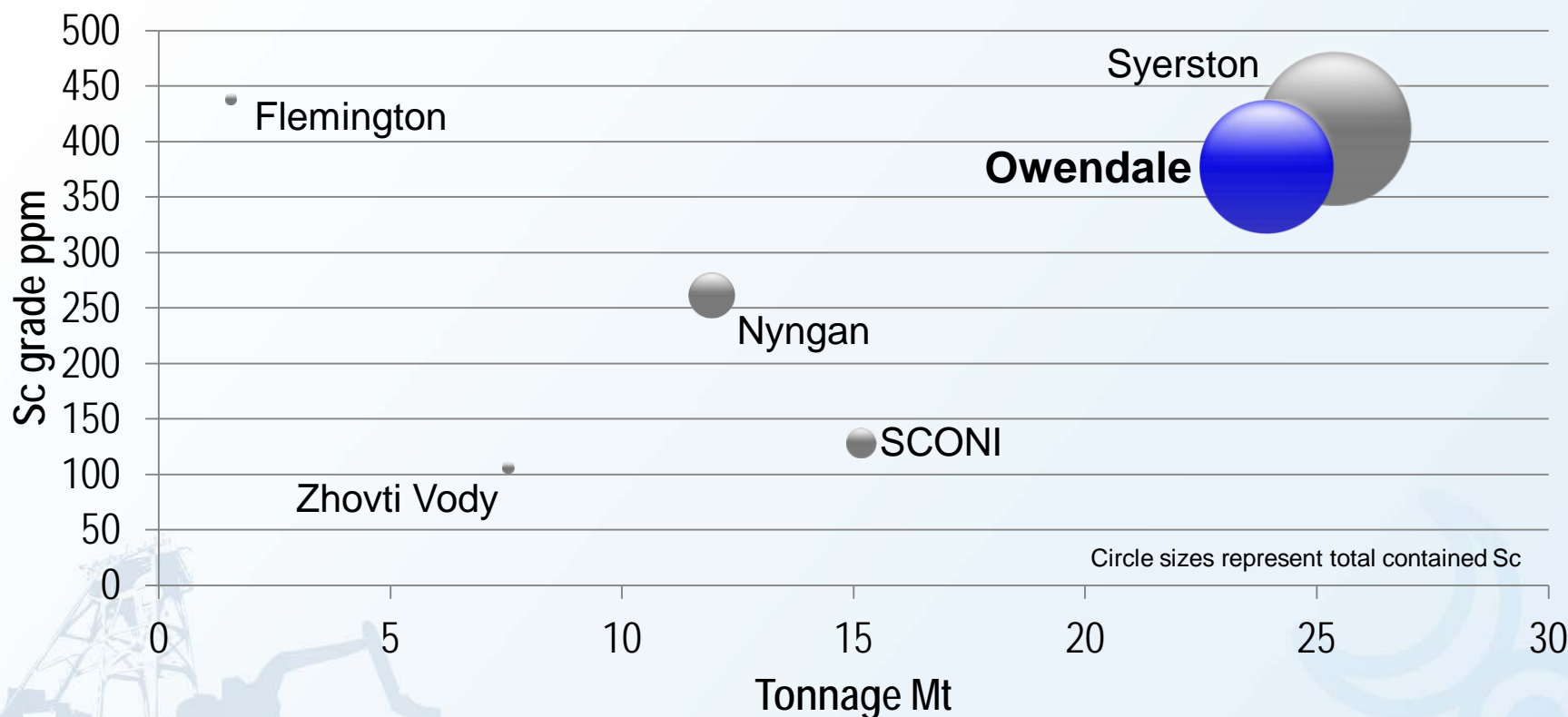


- *Simple mining operation on shallow resource*
 - *Open cut, low stripping ratio, ~50,000 tpa campaign*
- *Near surface high grade in horizontal deposit*
- *Low operating costs*



- Owendale has the highest grade of scandium proposing to use proven conventional, high recoveries technologies*

Scandium Projects – Resource Comparison



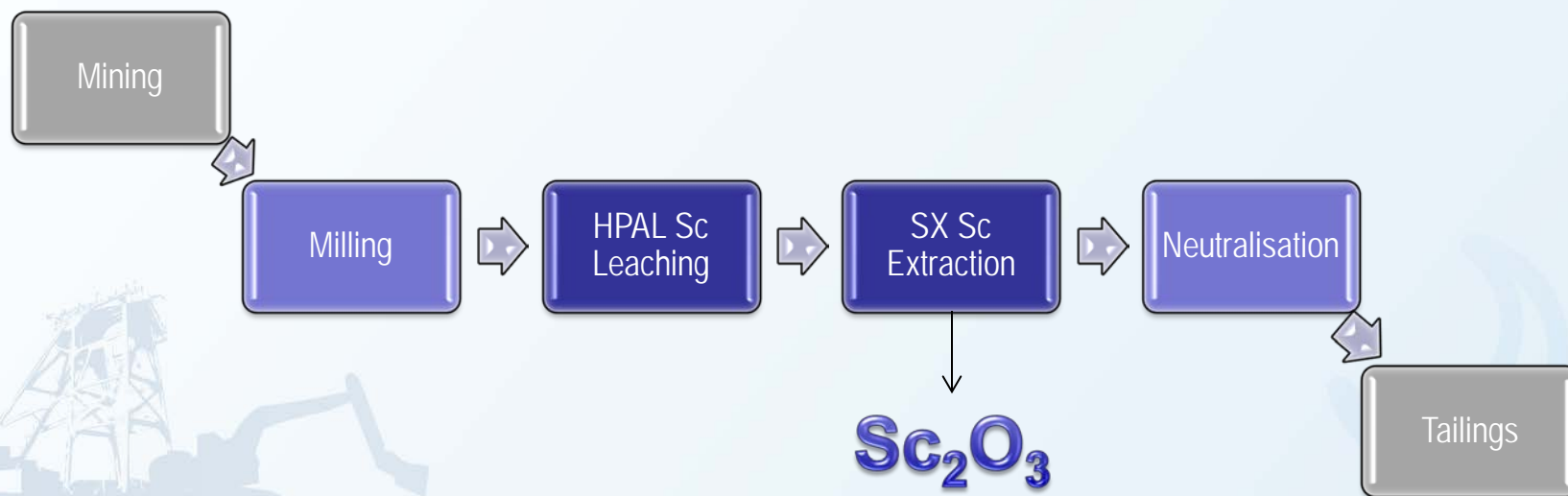
Flemington (Jervois Mining); Nyngan (Scandium International); SCONI (Metallica); Syerston (Clean TeQ).

Leaching

- *Industry standard High Pressure Acid Leach (HPAL)*
- *Expected 83% recovery*

SXEW

- *Industry available technology*
- *Low technology risk compared with other competitors*



Owendale Project Key Parameters	Scoping Study Result (AUD\$M)	Scoping Study Result (USD\$M)
Capital Cost estimate	\$74	\$57
Annual Revenue	\$77	\$60
Unit Cash Costs (per kg oxide)	\$598	\$466

Assumptions: AUD : USD 0.78. USD\$2,000/kg oxide. 30tpa Sc oxide production 99.9% purity

➤ *Offtake Agreements to be finalised by mid-year*

➤ *Prefeasibility and Feasibility Studies commencing Q2 2015*

Stage	Q1 15	Q2 15	Q3 15	Q4 15	Q1 16	Q2 16	Q3 16	Q4 16	Q1 17	Q2 17	Q3 17	Q4 17
Scoping Study												
Feasibility Study												
Offtake Agreement Finalisation												
Baseline Studies/ML application												
Project Funding												
Design & Construction												
Commissioning												
Production												

- ❧ *Potentially world's largest, highest grade scandium project proposing to use proven, conventional high-recovery technology*
- ❧ *9,100 tonnes Sc metal (13,392 tonnes Sc₂O₃) and over 0.5 Moz Pt.*
- ❧ *Owendale - reliable, secure, stable, long term production will grow/enhance commercial applications of Sc*
- ❧ *HoA for proposed supply of 20 tonnes scandium oxide (99.9% purity) to two major Chinese partners*
- ❧ *New costings, scoping and prefeasibility studies based on updated resource and metallurgical flow sheet completed by Q2 2015.*
- ❧ *The world's first scandium mine by 2017!*



PLATINA
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Thank You

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