



RED MOUNTAIN MINING

Emerging Specialty Metals Company

ASX:RMX

December 2019



Corporate Overview



Investment Highlights

Exposure to 2 exciting specialty metals projects in first class mining jurisdiction
Low Enterprise Value presents compelling value

Mount Kokeby

Near term DSO potential with robust demand from end users
Previous exploration identified high grade Kaolin ($>30\% \text{Al}_2\text{O}_3$)
Historical kaolin mining operations (Murray and Mt Kokeby deposits)
Excellent infrastructure with access to road and operational rail

Exposure to booming HPA Market

Mount Mansbridge

Compelling heavy rare earth element (HREE) exploration target model
Historic exploration confirms the presence of xenotime mineralisation
High-grade (0.34% Co) cobalt drill intersections at Déjà vu Prospect
Ex-Northern Minerals geologist heading exploration efforts

Capital Structure

Shares on Issue	878,036,775
Post Acquisitions	1,157,036,775
Share Price	0.6c
Market Capitalisation (post transaction completion)	\$7.1m
Cash at 4/12/2019	\$2.0m
Enterprise Value (post transaction completion)	\$5.1m



Board of Directors



Board of Directors

JEREMY KING

NON-EXECUTIVE DIRECTOR

Corporate advisor with over 20 years' experience in domestic and international legal, financial and corporate matters. Currently serves as non-executive director of Smart Parking Limited (ASX: SPZ), Transcendence Technologies Limited (ASX: TTL) and EHR Resources (ASX: EHX)

ROBERT PARTON

NON-EXECUTIVE DIRECTOR

20 years providing business analysis and management to companies including BHP, Crane Group, Kraft Foods, Mitre 10 and PDL Electronics (part of the Schneider Electric Group). Since 2006, Extensive experience in business management, project evaluation and capital raising across various sectors including cleantech, IT, real estate and manufacturing. He has been involved in transaction management from sourcing, analysis and due diligence evaluation through to settlement and is a qualified accountant with over 20 years membership with CPA Australia. Robert has previously served on the board of ASX-listed companies Basper Limited (now Direct Money Limited), Telesso Technologies Limited, Motopia Limited and Viculus Limited.

LINCOLN HO

NON-EXECUTIVE DIRECTOR

Over 10 years' experience in equities trading, with a strong focus in corporate restructuring, due diligence, mergers & acquisitions in the emerging companies sector. Holds specific investor relations experience in Asia, having liaised with high net-worth investors based in Hong Kong, Singapore and China. Previously served as non-executive director of Pure Minerals Limited and Sultan Resources Limited. Currently director of the Pioneer Development Fund (Aust) Limited.

MAURO PICCINI

COMPANY SECRETARY

Chartered Accountant (CA) and a member of the Governance Institute of Australia (GIA). He specialises in corporate advisory, company secretarial and financial management services. Mauro spent 7 years at the ASX and possesses core competencies in publicly listed and unlisted company secretarial, administration and governance disciplines.

Transaction Summary



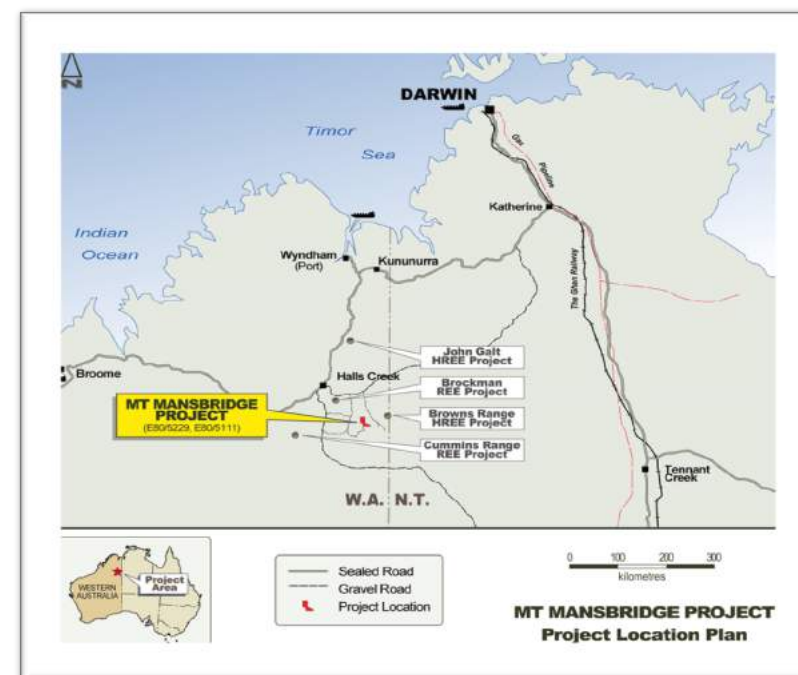
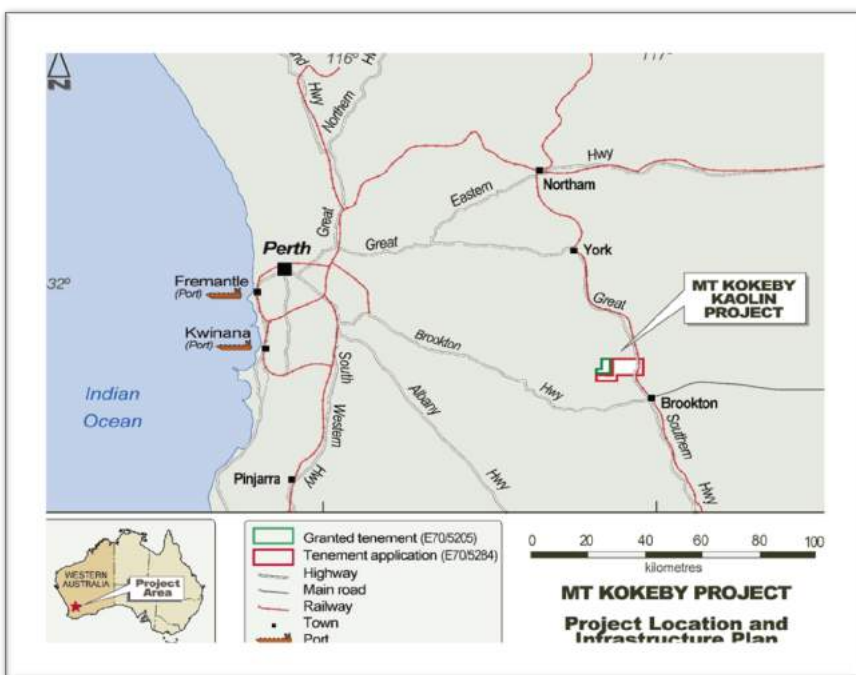
Mt Kokeby (Kaolin DSO / HPA) – Initial Consideration

- \$250 000 AUD
- 155 million fully paid ordinary RMX shares

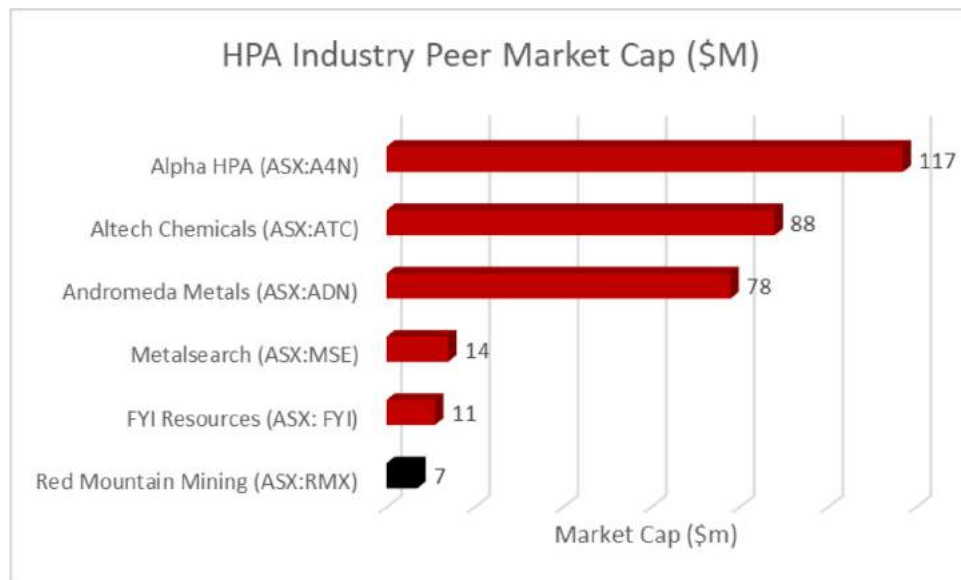
Mt Mansbridge (HREE) – Initial Consideration

- \$250 000 AUD
- 155 million fully paid ordinary RMX shares

Performance Based Deferred Consideration – See Appendix 1



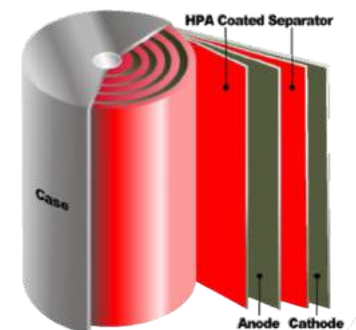
Significant Valuation Upside



(Market data as of the 4/12/19)



Specialty Metal Focus



Specialty Metal Thematic

Changes in technology, in particular electric vehicles and new consumer devices have created a significant demand for previously under developed commodities.

Electric Vehicle Revolution 3 Investment waves

1st Wave – Anode and Cathode Materials

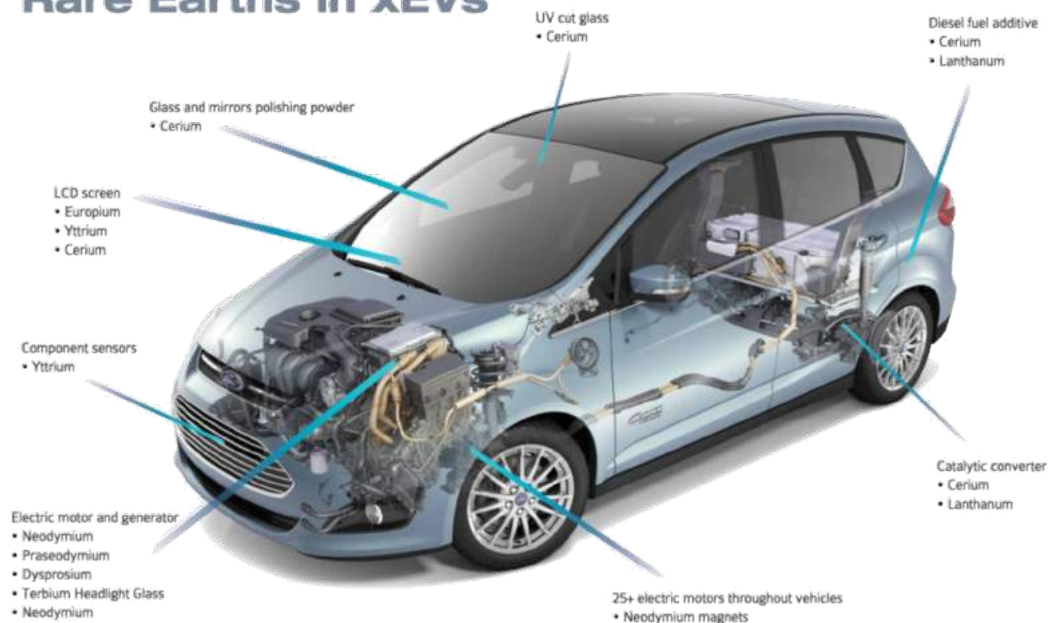
2nd Wave – Alternative Anode/Cathode materials

3rd Wave – other materials used in EVs

* Dy, Nd, Pr, Tb in motors

* HPA battery separator

Rare Earths in xEVs



Investment Rationale



Which companies last through Investment Euphoria, Exploration, Development and into production?

Jurisdiction	<p>Sovereign risk and government support - WA is a safe, ethical and proven mining jurisdiction</p> <p>Frazer Institute 2018 survey ranks Western Australia 2nd globally in mining friendly jurisdictions behind only Nevada (Qld 13th, NT 23rd, SA 24th, NSW 42nd, Vic 54th, Tas 55th)</p>
Resource quality & scarcity	<p>Xenotime highly desirable Heavy Rare Earth Element (HREE) mineralisation type. Up to 98% of global Dy supply is sourced from China. End users are seeking alternative sources of HREE supply.</p> <p>Historical mining operation de-risks Mt Kokeby</p>
Cost competitive processing route	<p>Processing and recovery of REE from xenotime is well understood and achievable</p> <p>Potential for REE toll treatment and production pathway</p> <p>Targeting low Capex sorting and beneficiation (Kaolin)</p>



Dual Project Strategy



Investment Highlights

- Dual projects allow for year-round news flow and exploration with Mt Kokeby works coinciding with wet season at Mt Mansbridge (Kimberly)
- Allows for meticulous and targeted approach to large Mt Mansbridge tenement package without sacrificing news-flow
- Varying development timeframes, with exposure to mature kaolin market whilst retaining exposure to high-growth HPA, REE markets.
- Mt Kokeby exploration and evaluation is relatively low cost which makes dual project strategy fiscally feasible

Mt Kokeby – Kaolin DSO, HPA

Mt Mansbridge – HREE, Ni-Cu-Co



Mount Kokeby



Mt Kokeby Project

Land package of circa 84km² containing:
E70/5205 (granted) contains 2 historic mining operations
E70/5284 (under application) visual outcrops, operating rail line within boundary

99km from Perth and Port of Kwinana/Fremantle

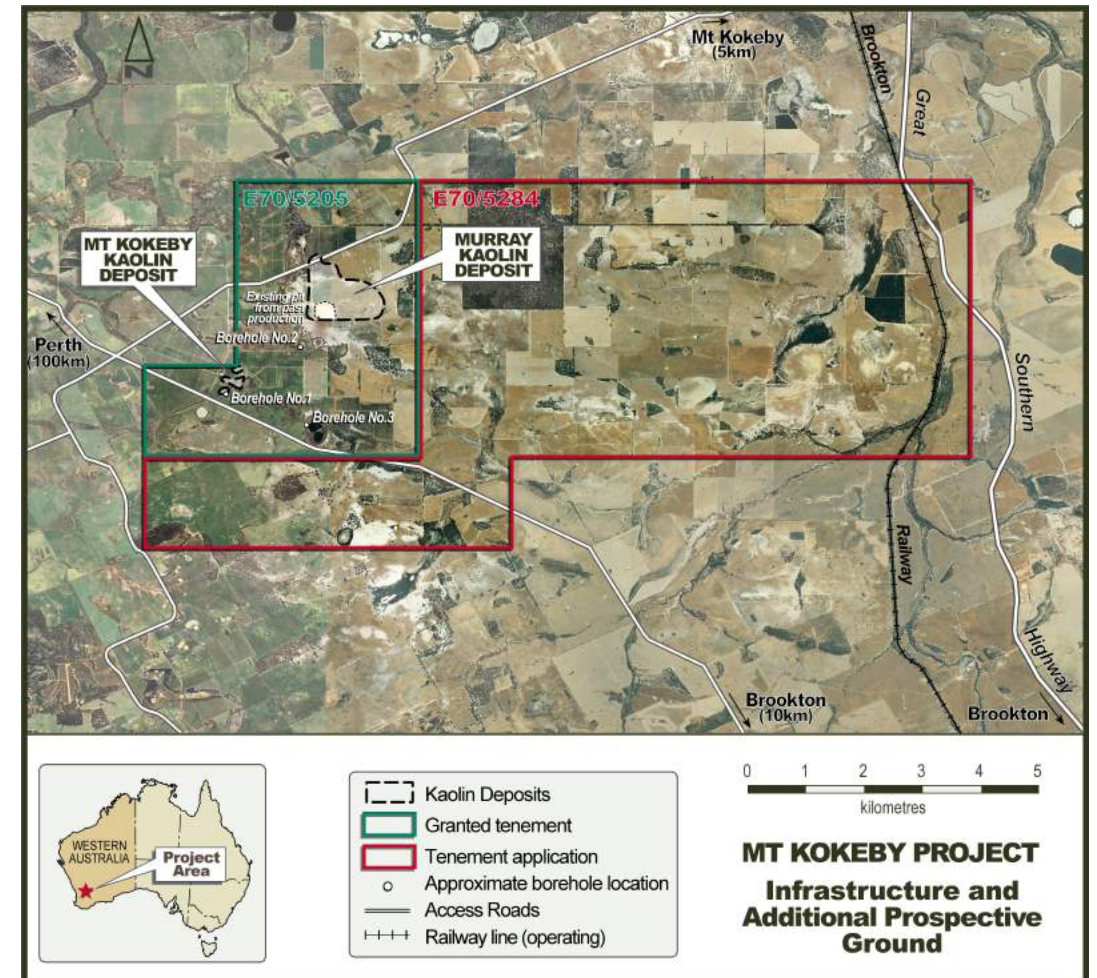
Parallel Development Strategy

Short Term Kaolin DSO Operation

- Opportunity to generate early cash flow
- Low cost drilling and metallurgical test work
- Potential for low capex DSO operation

Long Term High Purity Alumina

- Targeting 4N, 5N markets
- Potential to be a major player in HPA space



DSO Opportunity



DSO Overview

Strong demand from Asia for DSO Kaolin for traditional markets

Superior Al_2O_3 grades $>30\% \text{Al}_2\text{O}_3$ make Mt Kokeby area Kaolin highly suitable for DSO operations (as announced on 19th November 2019)

Shallow flat lying deposit with little overburden implying a simple mining operation

Close proximity to port via trucking or rail with both modes commonly used to transport grain from wheatbelt in similar tonnages

Initial test-work highlights potential for DSO operation



DSO Test-work/Due Diligence

Channel Sampling

(from RMX announcement on 19th November 2019)

9 samples taken from 5 locations representative of the overall historical pit area.

Head assays confirmed and exceeded historical data undertaken by King Mountain mining in the 1970s

Assays from raw kaolin taken from historic production pit averaged over 34% Al_2O_3 with 7 of 9 assays exhibiting greater than 35% Al_2O_3 insitu grade, peaking at 37.1% Al_2O_3

	Element						
	Al_2O_3 %	Fe_2O_3 %	K_2O %	MgO %	SiO_2 %	TiO_2 %	LOI_{1000} %
Sample ID	0.001	0.001	0.001	0.001	0.001	0.001	0.01
MPTS 1 #1	36.480	1.400	0.405	0.203	46.097	1.360	13.47
MPTS 1 #2	36.844	1.307	0.510	0.202	45.479	1.560	13.53
MPTS 2 #3	37.127	0.985	0.490	0.162	45.512	1.404	13.57
MPTS 2 #4	37.070	1.092	0.536	0.159	45.536	1.560	13.47
MPTS 3 #5	35.475	1.096	0.393	0.107	48.417	1.334	12.89
MPTS 3 #6	29.741	1.429	0.325	0.130	56.127	1.209	10.74
MPTS 3 #7	25.119	1.342	0.184	0.116	62.776	0.942	9.13
MPTS 4 #8	36.928	0.818	0.333	0.118	46.914	1.100	13.30
MPTS 5 #9	36.974	0.993	0.552	0.156	45.657	1.556	13.53



DSO Test-work/Due Diligence



Size-by-size Analysis

(from RMX announcement on 3rd December 2019)

Results from size-by-size analysis showed exceptionally high alumina recoveries resulting in upgrading of Al_2O_3 grades.

Alumina Recovery for -38um fraction size between 83.6% to 97.1% with Al_2O_3 grades ranging from 30.9% to 38.3%

Alumina Recovery for -75um fraction size between 87.8% to 99.4% with Al_2O_3 grades ranging from 31% to 38.5%

XRD Results showed no red-flag minerals present and high kaolin wt%

Results shows that raw ore can be upgraded through simple physical beneficiation with exceptional yield allowing for the potential of a low cost DSO Operation utilizing available infrastructure in the area

Next steps: Twin selected historic holes, extend known mineralization further metallurgical test-work



HPA Opportunity

HPA Overview

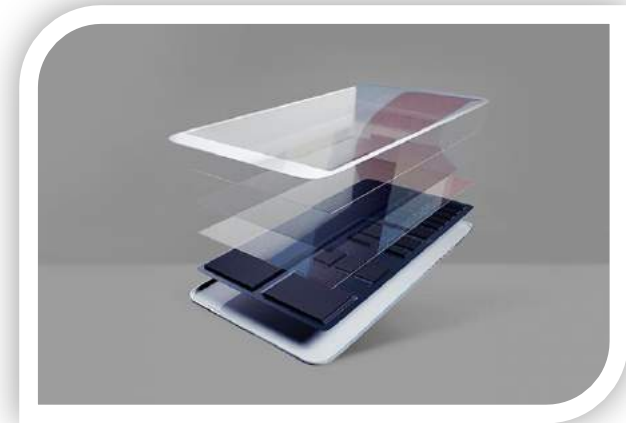
HPA Market has experienced strong growth in demand for lithium-ion battery separator coating and LED lighting

High grade Kaolin provides a significant competitive cost advantage versus traditional HPA production from Aluminium metal

Offers complete control of production process from mine to final product – ideal for off-take

Strategic location allows for a variety of processing plant options

- Close proximity to Kwinana Battery Hub and skilled workforce
- Proximity to port of Fremantle allows for a processing plant in a low cost country such as Altec Johor Bahru plant



Historic Works



Historic Works

Date	Works
1916	3 bore holes drilled in the Mt Kokeby area all 3 intersected kaolin within 10m of surface
1941 - 1983	Intermittent small scale open pit mining in the Mt Kokeby area
1971	Scout drilling on 3 farms (Murray, Morrison, Eynon) intersected high-grade kaolin on each property at shallow depths
1971	Follow up drilling on the 3 farms showed Murray (Murray Deposit) to have largest deposit of kaolin. Eynon and Morrison hosted smaller deposits. 914m drilled at Murray farm which delineated the Murray Deposit.
1983	Intermittent mining in the Mt Kokeby area ceases.



Favourable Infrastructure



Rail Option

Great Southern Railway system runs inside eastern boundary of tenement package

Services bulk tonnage grain delivery from wheatbelt to port



Trucking Option

All weather roads provide access to tenement package.

Brookton highway used for bulk grain transport



Kwinana/Fremantle Port

99km to Kwinana bulk carrier port (DSO) and Port of Fremantle (HPA)

Proximity to emerging Kwinana battery hub offers strategic location for HPA operation

Mount Mansbridge



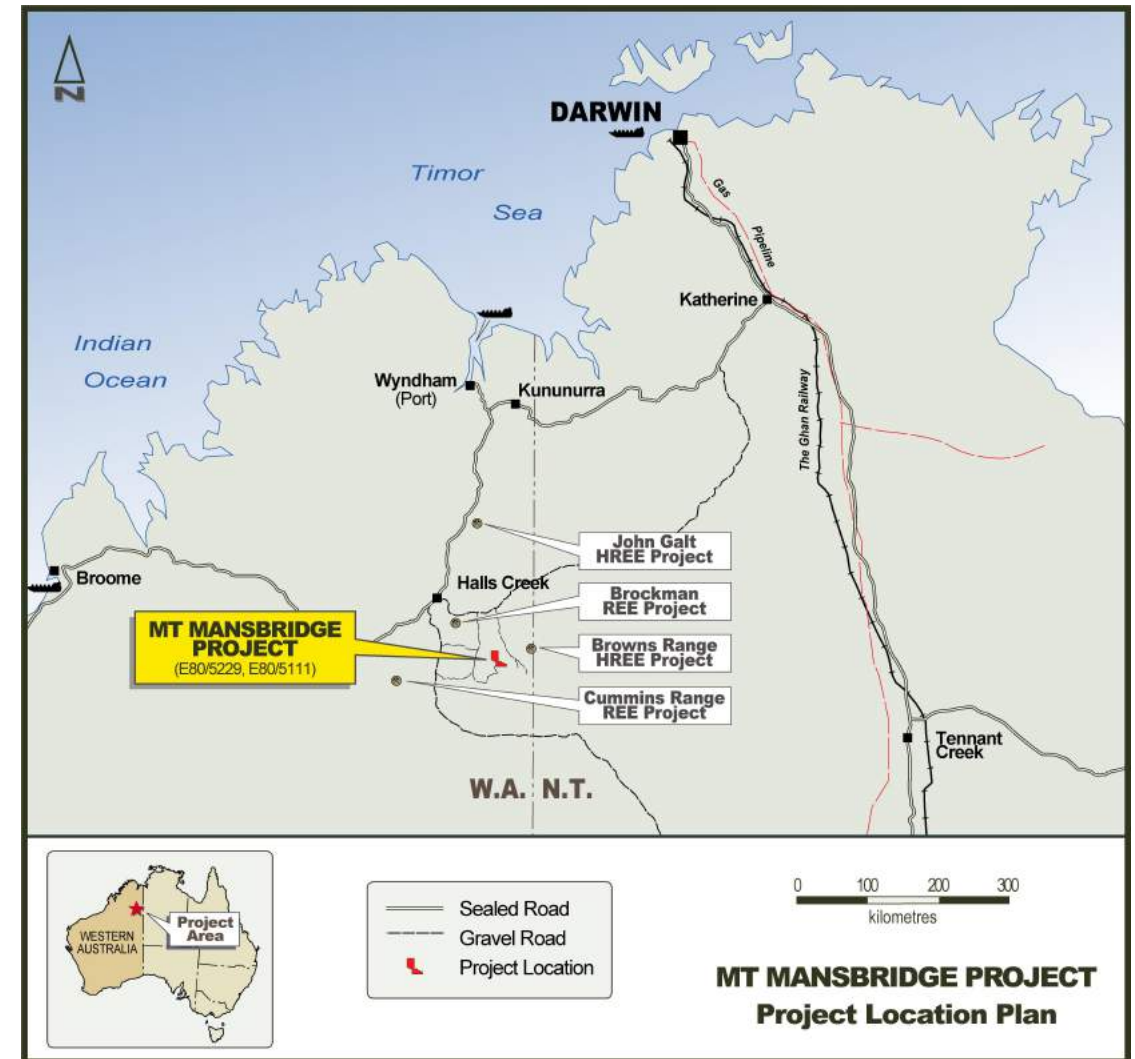
Project Overview

The East Kimberly of Western Australia is a proven rare earth province hosting several rare earth deposits including Browns Range, Brockman, Cummins Range, John Galt and Mt Mansbridge

Mt Mansbridge land Package in the East Kimberly totalling 280 km²

Historical work has uncovered a host of drill targets prospective for heavy rare earths and Ni-Cu-Co mineralisation

Mt Mansbridge located circa 40km from Northern Minerals Browns Range processing facility



Mount Mansbridge



Killi Killi - Rare Earths

Rare Earth mineralisation first discovered at Killi Killi beds by BHP in the 1980s

The presence of HREE mineral xenotime identified at Mt Mansbridge

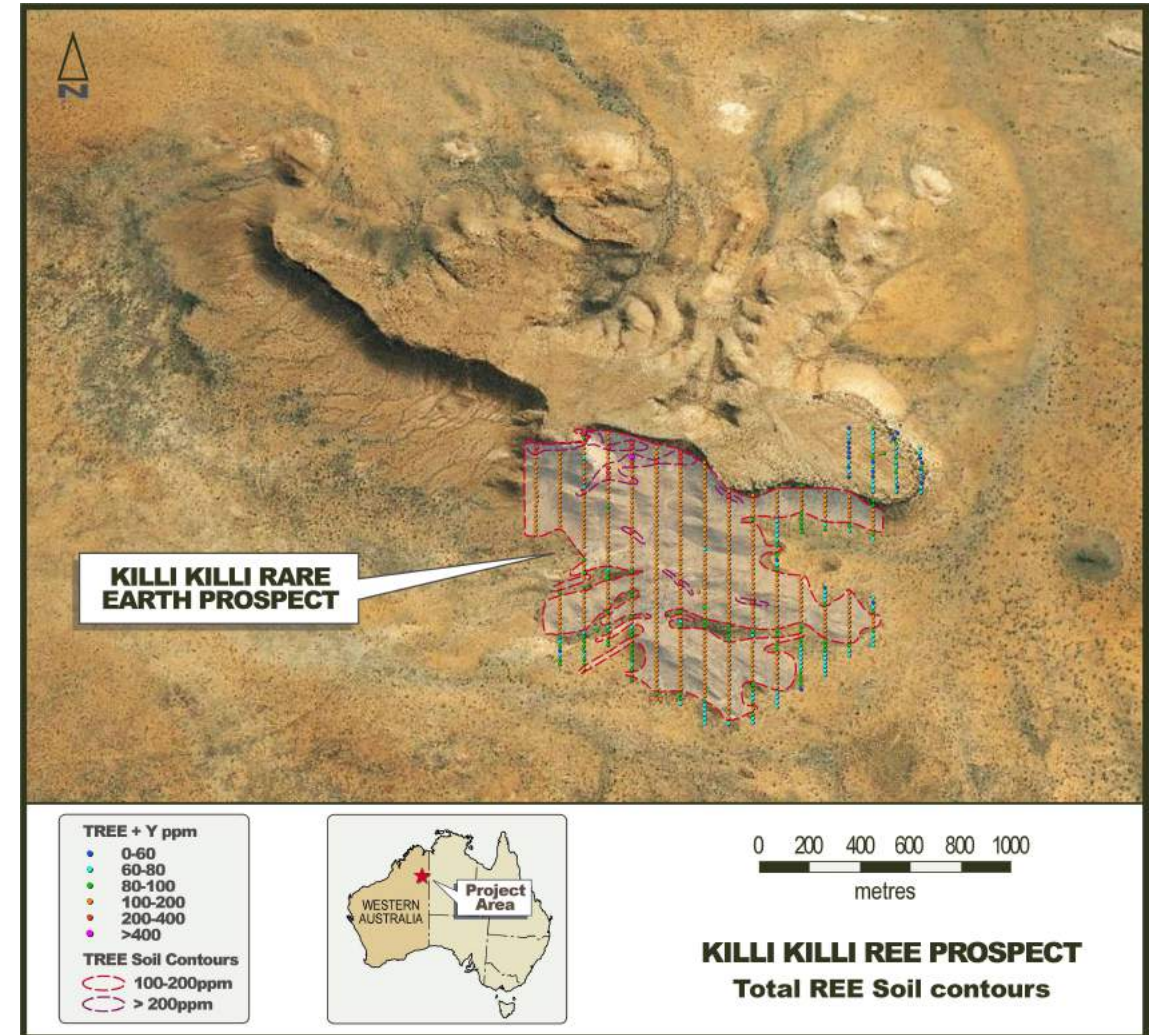
Quantum found REE mineralisation to occur within the basement rocks as well as being associated with the unconformity

Déjà vu – Nickel-Copper-Cobalt

Solitary hole drilled by CR Exploration in the 1990s exploring for diamonds intercepted high grade cobalt values.

Cobalt intercepts recorded 70-72m 0.13% Co, 84-86m 0.32% Co, 88-90m 0.22% Co, 98-100m 0.32% Co with the hole ending in mineralisation (as per RMX announcement 1st October, 2019)

Unique singular nature of cobalt mineralisation warrants further drilling, with the presence pentlandite and chalcopyrite supports the potential for Ni-Cu-Co mineral association.



Xenotime & Heavy Rare Earths



Rare Earths Overview

China dominates rare earth production accounting for 80% of global REE production

China's dominance is even more pronounced for HREE accounting for up to 98% of global HREE production

Not all rare earths are made equal – heavy rare earths are considerably more valuable than light rare earths.

Xenotime mineralisation – dominant in high value critical rare earths (Dy, Tb) and low in abundant rare earths (Ce, La)

Xenotime processing advantages – understood flowsheet

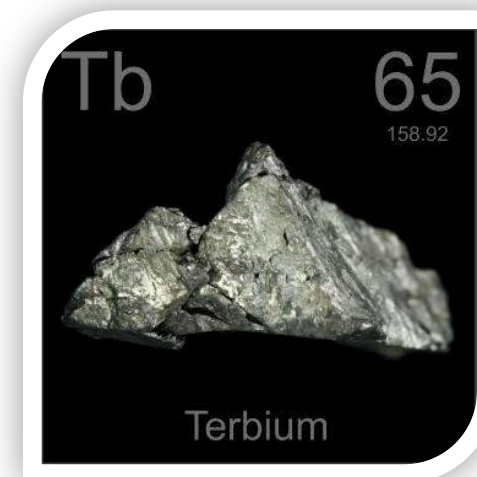
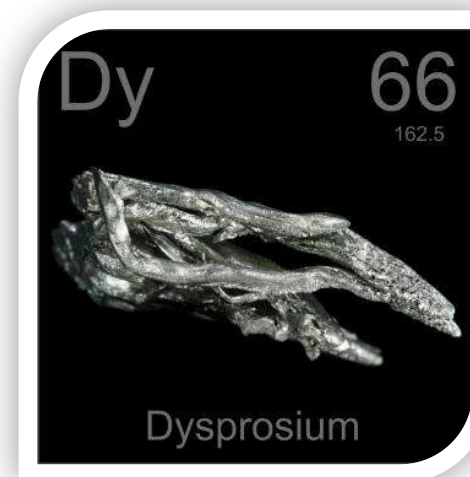
Strong global interest for new sources of HREEs outside of China

Mt Mansbridge has the potential to be a strategic asset, prospective for critical and high value rare earths

Rare Earth Element	Price (USD/Kg)	
	Sep-17	Jul-19
Lanthanum	2.15	1.79
Cerium	1.7	1.79
Praeseodymium	68.5	59
Neodymium	61.5	50.6
Samarium	1.95	1.82
Europium	73	32.8
Gadolinium	18	28.8
Terbium	730	598.4
Dysprosium	185	283.5
Erbium	27	28.8
Yttrium	3.4	3.13

Light Rare Earths

Heavy Rare Earths



Unconformity REE Model



New Unconformity

Recent work by Northern Minerals in 2018 has uncovered a new unconformity-related REE mineralisation model

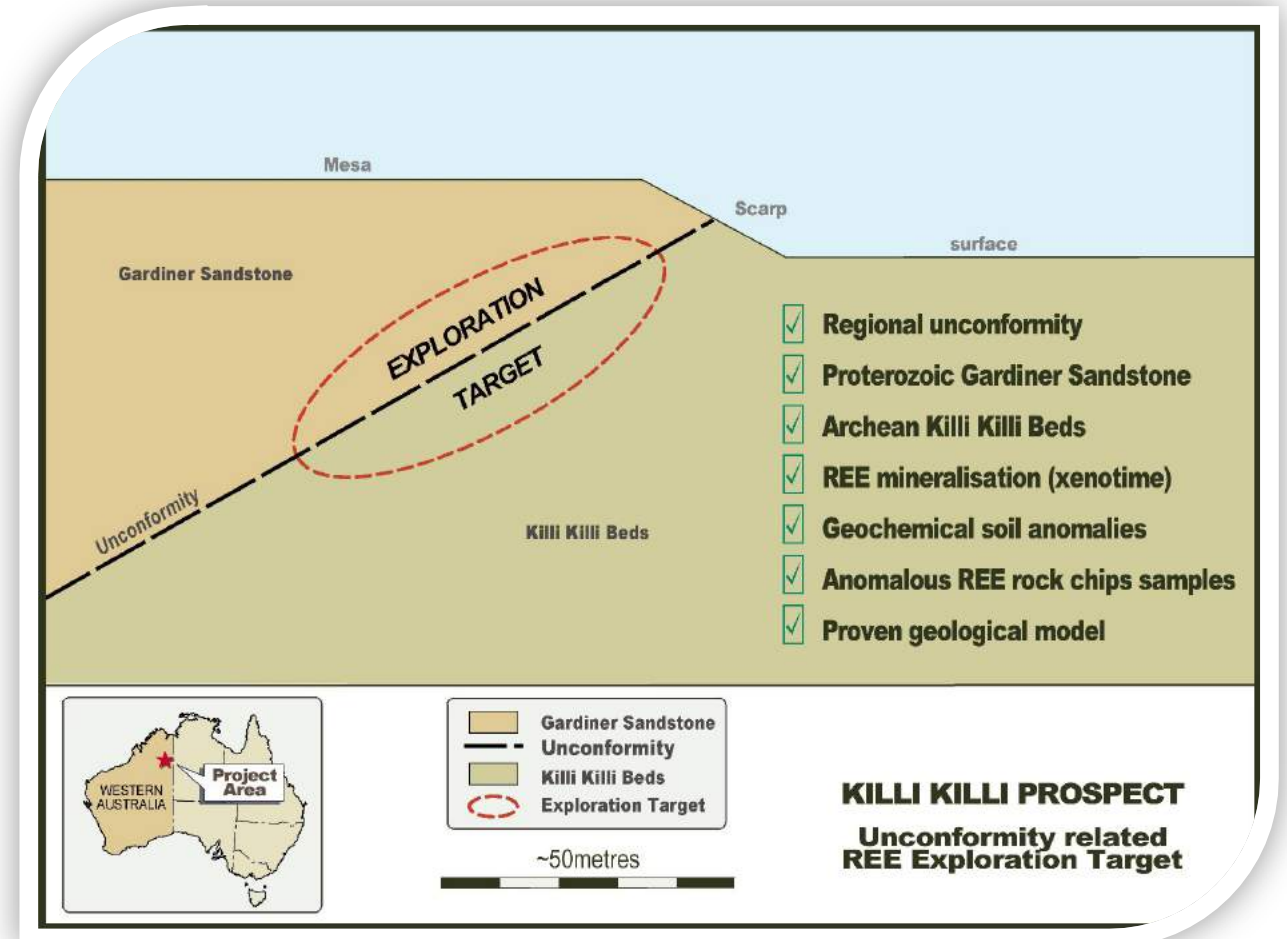
Dazzler and Iceman deposits found at Browns Range are 2 such deposits which are characterised by high REE grades (2.23% TREO – Dazzler)

The Mt Mansbridge Killi Killi Prospect is an analogous geological setting to Dazzler and Iceman prospects

The Killi Killi prospect has recently been extended to include 33 km length of unconformity with the explicit aim of replicating the success at Dazzler and Iceman

Prospective geology and regional unconformity (Proterozoic Gardiner Sandstone, Achaean Sedimentary Killi Killi Beds)

REE mineralisation identified in rock chip samples and geochemical soil anomalies





Project Development Plan

Mt Kokeby

- Metallurgical work to verify suitability of Al_2O_3 grade for DSO operation
- Twinning of selected holes to verify historical data
- JORC Resource Drilling
- Expand resource size with step out drilling
- Progress Off-take discussions
- Progress feasibility studies

Mt Mansbridge

- Data processing and target generation. Confirm geological model for all target commodities
- Site visit and reconnaissance field programs
- Update geological model incorporating new ground with the aim of identify and ranking targets ready for drill program at the commencement of drill season
- Plan drill program for the start of dry season (Mar-April 2020)

Appendix 1: Deferred Consideration



Mt Kokeby – Milestone		Mt Kokeby – Deferred Consideration	
Commencement of Drilling on the Mt Kokeby Project Area		\$300 000 worth of Consideration shares at deemed price of 0.5c	
JORC compliant resource of 10mt of raw ore grading not less than an average of 29% Al ₂ O ₃ at an optimal fraction size		50 million Consideration Shares	
Completion of a Scoping Study with a pre-tax IRR > 25% and NPV ₈ /CAPEX > 0.8		50 million Consideration Shares	
Mt Mansbridge – Milestone		Mt Mansbridge – Deferred Consideration	
Completion of a feasibility study with a pre-tax IRR > 20% and NPV ₈ /CAPEX > 0.8		<ul style="list-style-type: none"> • \$500 000 cash • \$1 000 000 worth of Consideration Shares based on 30-day VWAP prior to date of satisfaction of milestone • 1% NSR 	
Off-take - Milestones		Off-take - Deferred Consideration	
<p>Should RMX enter into a binding, multi year offtake or tolling agreement (Binding Offtake) in respect of either:</p> <p>The Mt Kokeby Kaolin Project for (i) a minimum of 250 000 tonnes of kaolin DSO per annum or (ii) 1500 tonnes of '4N' HPA</p> <p>OR</p> <p>The Mt Mansbridge Rare Earths Project for a minimum of 500,000 kg of rare earth oxide per annum</p>		<p>\$500 000 AUD</p> <p>\$500 000 worth of Consideration Shares based on a 30-day VWAP prior to the date on which RMX announces entry into a Binding Offtake</p> <p>All Consideration Shares are subject to ASX imposed escrow for 12 months from the date of issue</p>	

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The information in this presentation that relates to Exploration Results and other technical information complies with the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code) and has been compiled and assessed under the supervision of Mr Mark Major. Mr Major is a Member of the Australasian Institute of Mining and Metallurgy and the Australasian Institute of Geoscientists. He 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 JORC Code. Mr Major consents to the inclusion in this announcement of the matters based on his information in the form and context in which it appears.

The Company is not aware of any new information or data that materially affects the information included in the relevant market announcements.