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ASX:RDM

New Sybella REO Discovery Mount Isa Region

Breakthrough Metallurgical Results Favours Low-CAPEX, Low-COST Heap Leach Processing

Booth 76 May 2024

Sybella Discovery Corporate Snapshot

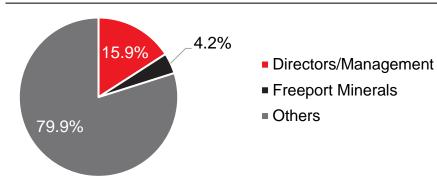


ASX Code	Shares on Issue	Share Price	Market Cap	Cash (at 31 Mar 2024)
RDM	299,367,579	16	\$46M	\$3.0M

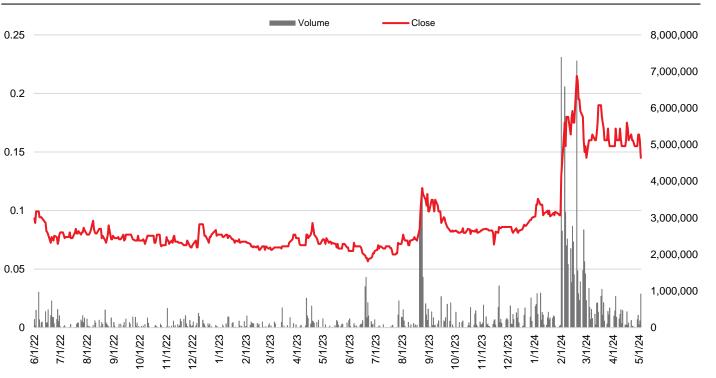
Board Of Directors & Senior Management

Rob Rutherford	Managing Director
Russell Barwick	Chairman (non exec)
Joshua Pitt	Director (non exec)
Patrick Flint	Company Secretary

Substantial Shareholders



Share Price & Trade Volume: 01/06/2022 - 09/02/2024



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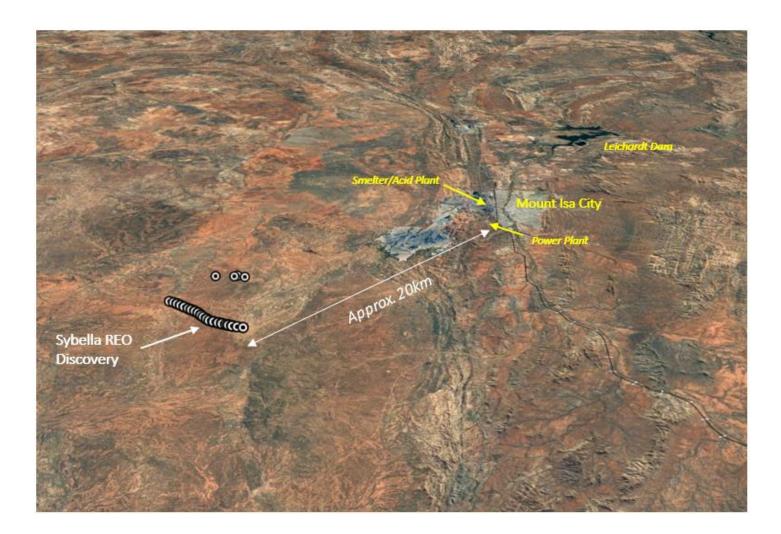
Project		Q2	Q3	Q4	Comments
Sybella	New REO Discovery	Optimised Leach Tests Step-out Drilling Initiated Impurity Removal Trials	Drill Results Column Leach Trials	Resource Definition	Mount Isa QLD ~150 hole,10,000m
Yarrie	Copper-Gold		Drilling Initiated	Drill Results	Paterson WA BHP funded 4000m mud/core
Lawn Hill	Zinc-Lead-Silver		Drilling Initiated	Drill Results	Century-style QLD EIS grant \$150k
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Asset	53% Equity	Q2	Q3	Q4	Comments
Maronan ASX: MMA	Advanced Silver-Lead Copper-Gold	Indicated Resource Drilling	Indicated Resource Drilling Advanced Mining Study	Updated Resource Scoping Study	Two 30Mt ore bodies 100m from surface



New REO deposit style

 Just 20 kilometres southwest of Mount Isa with excellent infrastructure options





Two General REO Project Types Emerging

Complex High Temperature	Simple Low Temperature Leachable
 Monazite/Apatite Carbonatites Monazite Heavy Mineral Sands 	 Clay-Hosted Ionic Clay-Hosted Non-Ionic Granite-Hosted "Sybella Discovery"
 High Capex 	Potential Low CapexPotential Low Opex

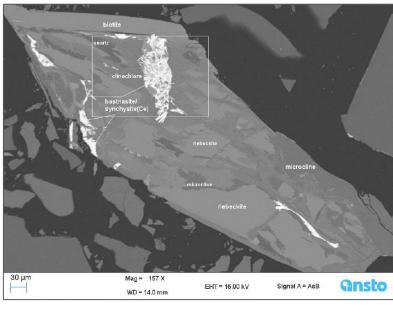


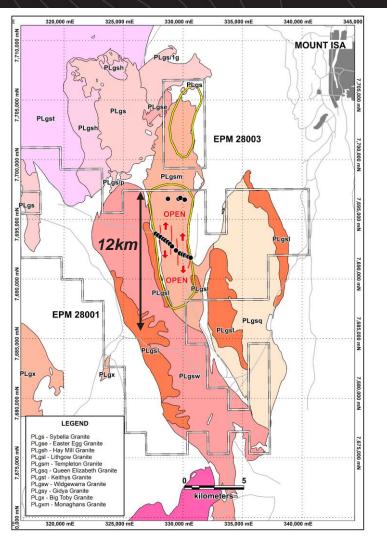
New REO deposit style

- Hosted in REO-enriched granite
- 12km long x 3km wide
- Bulk of REE's in soluble fluoro-carbonate minerals
- Soluble ore mineral in low acid consuming granite rock

" Metallurgical Nirvana "



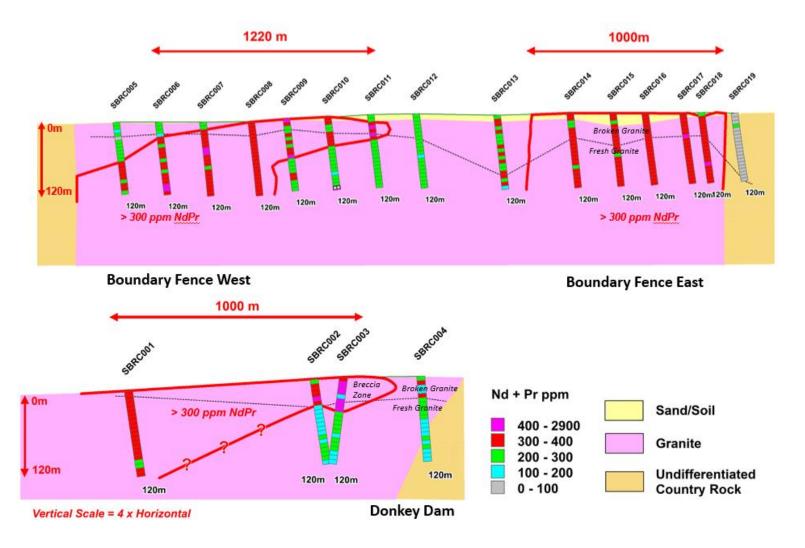






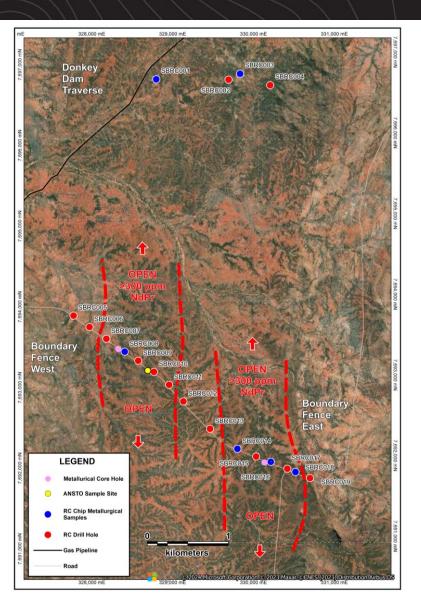
New REO deposit style

 Proof-of-concept RC drilling reveals two higher grade REO zones, each about 1km wide



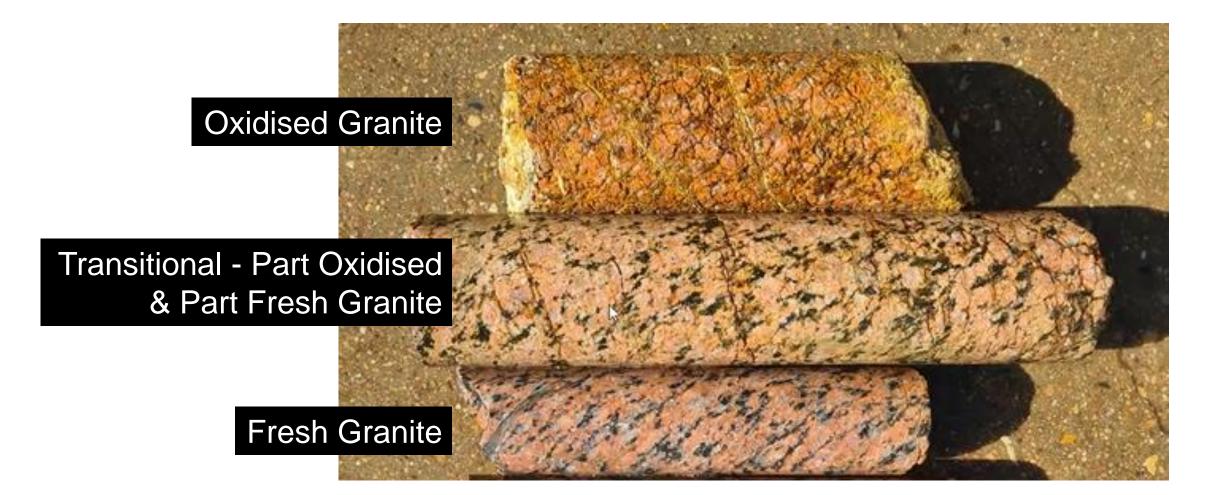
New REO deposit style

• Zones open north and south and at depth offering vast tonnage potential



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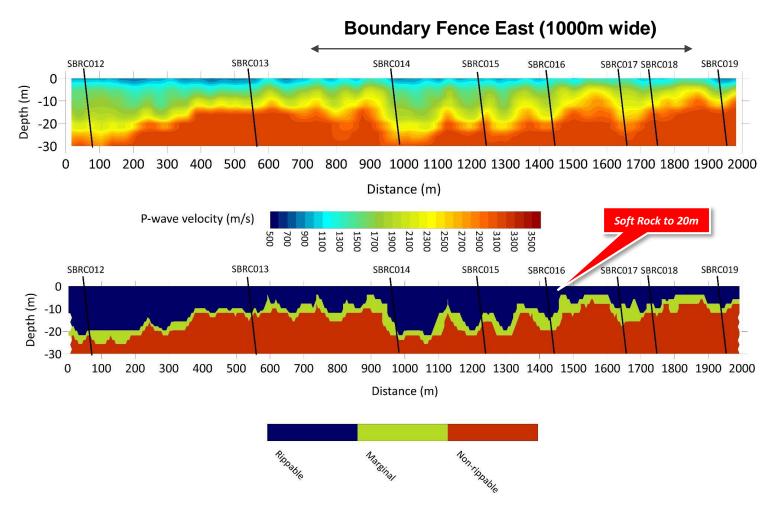




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New REO deposit style

 Softer weathered granite in top 20m adds mining, comminution and processing advantages



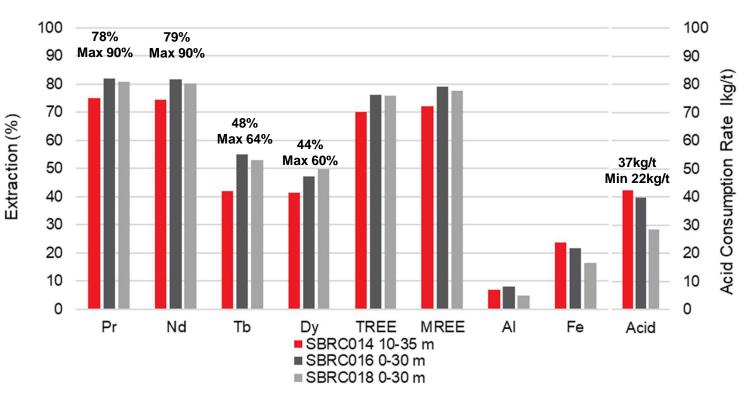
Seismic Refraction Profiles showing interpreted P-wave velocity profile for rock rippability

Successful proof-ofconcept test work

- Strong REO extraction with low levels of impurities
- Using low levels of sulphuric acid at ambient (air) temperature

Boundary Fence East

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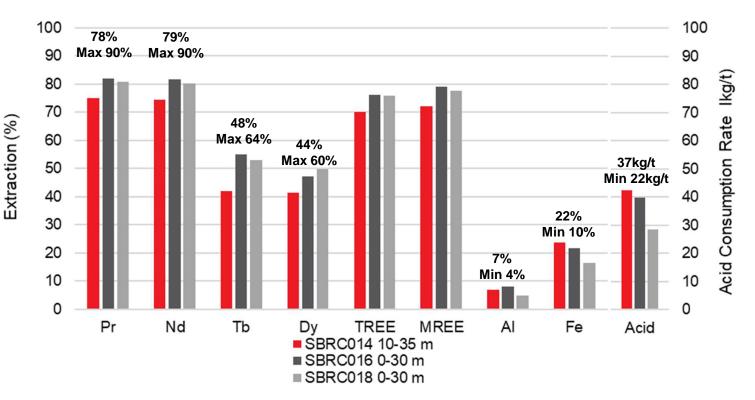
IBRT, RC chip, pH 1, 96-hour residence time, ambient temperature, 33% w/w solids

Successful proof-ofconcept test work

- Low average impurity extractions of aluminium and iron
- Low average deleterious element extractions of 20 g/t thorium and 1 g/t uranium

Boundary Fence East

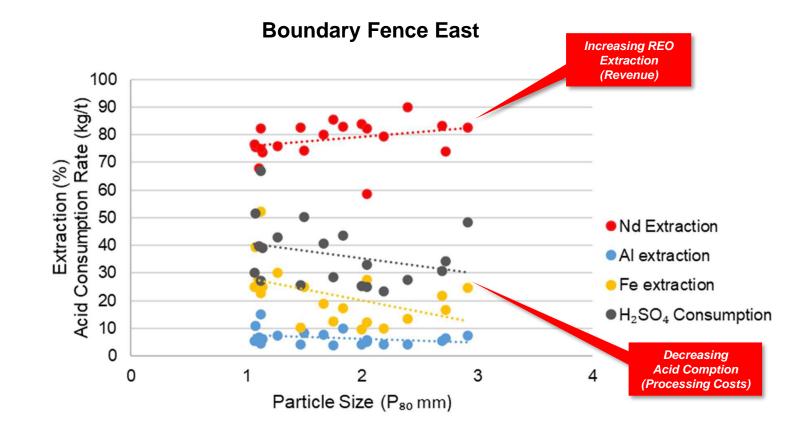
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IBRT, RC chip, pH 1, 96-hour residence time, ambient temperature, 33% w/w solids

Importantly!

- Results point to simple processing options potentially involving heap leach methods
- Data show significant opportunities to increase revenue and reduce processing costs by:
 - 1. Increasing the particle (crush) size



IBRT, RC chip, pH 1, 96-hour residence time, ambient temperature, 33% w/w solids

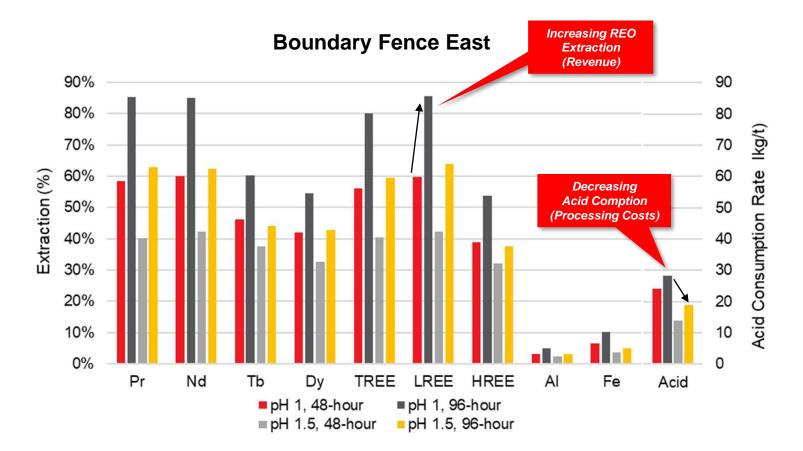
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Sybella Discovery Breakthrough Phase 1 Metallurgical Leach Tests

Importantly!

- 2. Increasing leach residence time
- 3. Optimising the leach pH

"Sybella showing the processing benefits of Clay-Hosted Ionic deposits without the potential filtration and handling difficulties of clay ore"



IBRT, RC chip, pH 1, 96-hour residence time, ambient temperature, 33% w/w solids

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Sybella Discovery Low Temperature Leachable Projects



Location	ASX Code	Project	L	.each		Avera	ge Grad	le (g/t)			Ext	raction	(%)		Ext	racted I	RE (g/t c	ore)	Extracted Nd ₂ O ₃ Equivalent
			рН	Proposed Process ²	TREO	Pr_6O_{11}	Nd_2O_3	Tb₄O ₇	Dy ₂ O ₃	TREO	Pr	Nd	Tb	Dy	Pr_6O_{11}	Nd_2O_3	Tb₄O ₇	Dy₂O₃	g/t¹
	RDM	Sybella	1	Heap	1,701	75	261	4.8	28	73	79	78	48	44	59	205	2.3	13	354
Australia	AR3	Koppamurra	1	Tank	712	32	121	3.2	18	-	67	67	53	53	21	81	1.7	10	171
	OD6	Splinter Rock	0	Tank	1,308	63	220	2.6	15	-	60	62	58	53	37	136	1.5	8	230
Brazil	MEI	Caldeira	4	Tank	2,626	154	447	5	25	43	57	59	42	38	88	264	2.1	9	425
וממום	TSX:ARA	Carina	4	Tank	1,510	66	231	6.9	42	-	45	46	53	49	29	106	3.6	21	283
Uganda	IXR	Makuutu	1	Heap	848	42	150	3	18	-	49	52	80	80	21	78	2.4	14	199

Notes

1 - The Nd₂O₃ equivalent calculation assumes the following REO prices: Nd₂O₃ US\$57/kg, Pr₆O₁₁ US\$57/kg, Tb₄O₇ US\$784/kg, Dy₂O₃ US\$267/kg

 $Nd_2O_3 Equivalent = ((Extracted Pr_6O_{11} x Pr_6O_{11}Price) + (Extracted Nd_2O_3 x Nd_2O_3 Price) + (Extracted Tb_4O_7 x Tb_4O_7) + (Extracted Dy_2O_3 x Dy_2O_3)) / Nd_2O_3 Price$

Nd₂O₃ Equivalent value take into account the average IBRT Extraction % from SBRC014 10-35m, SBRC016 0-48m, SBRC018 0-30m for Sybella and Extraction % published by other listed companies

Nd₂O₃ Equivalent does not take into account any REO lose during impurity removal or clay filtration, or assumption about treatment costs.

2 - Proposed process has been assumed to be tank leaching unless suggested otherwise.

References

RDM - Head Grade: average Boundary Fence East SBRC014-018 0-120 m drill data, Extraction from unoptimised Phase 1 bottle rolls on RC chip, average Boundary Fence East

AR3 - Mineral Resource: ASX Release 19/09/23, Extraction: ASX Release 19/09/22 average of extractions in Figure 2

OD6 - Mineral Resource: ASX Release 18/07/23, Extraction: ASX Release 07/11/23, average 20 g/L HCI, 24-hour, Table 1

MEI - ASX Release 07/12/23, Extraction: average all clay and transition, Table 10

IXR - Mineral Resource: Makuutuu DFS 20/03/23 Ore Reserve, Extraction: Makuutuu Scoping Study 29/04/21, Figure 18

TSX:ARA - TSX Release 12/12/23, Extraction: total recovery corrected for 94% plant efficiency assumption

"Sybella showing the processing benefits of Clay-Hosted Ionic deposits without the potential filtration and handling difficulties of clay ore"

Sybella Discovery Accelerated Exploration Programs

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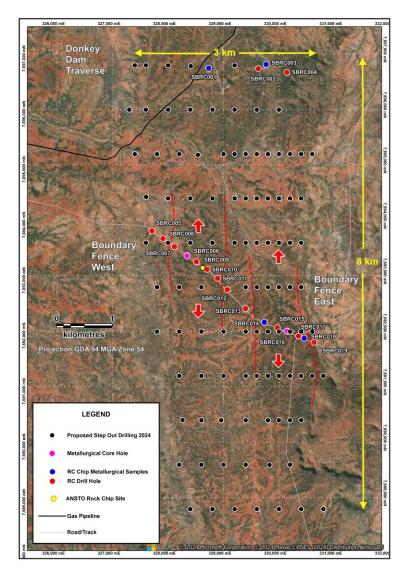
Phase 2 Metallurgical Test Work in Progress

- Optimised intermittent bottle-roll leach tests on core and RC chips
 - At a range of pH set points (pH 1.3, 1.7, 2.0, 3)
 - On coarsely jaw crushed size fractions (10mm,15mm)
 - Over increased leach times (up to 28 days)
- Impurity removal trials (producing a saleable MREC product)
- Comminution tests
- Mineralogical work

Step-out Drilling Underway

- Initial 8km x 3km area
- 800m x 400m, 800 x 200m centres, 60m deep holes
- About 150 holes for 10,000 metres drilling
- Followed by localised resource definition drilling

Initiation of Column Leach Tests



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Disclaimer (1/2)



This Presentation was Authorised by the Board of Red Metal.

Caution Regarding Forward-Looking Statements.

This Presentation contains forward-looking statements which are identified by words such as 'may', 'could', 'potential for', 'scope for', 'opportunity for', 'believes', 'expects', or 'intends' and other similar words that involve risks and uncertainties.

These statements are expressed in good faith and believed to have a reasonable basis, and are based on a number of assumptions regarding future events and actions that, as at the date of this Presentation, are expected to take place.

Such forward-looking statements are not guarantees of future performance and involve known and unknown risks, uncertainties, assumptions and other important factors, many of which are beyond the control of the Company, the Directors and the Company's management.

The Company cannot and does not give any assurance that the results, performance or achievements expressed or implied by the forward-looking statements contained in this Presentation will actually occur and investors are cautioned not to place undue reliance on these forward-looking statements.

Disclaimer (2/2)



The Company has no intention to update or revise forward-looking statements, or to publish prospective financial information in the future, regardless of whether new information, future events or any other factors affect the information contained in this Presentation, except where required by law.

These forward-looking statements are subject to various risk factors that could cause the Company's actual results to differ materially from the results expressed or anticipated in these statements.

Competent Persons Statement

The information in this report that relates to Exploration Results is based on and fairly represents information and supporting documentation compiled by Mr Robert Rutherford, who is a member of the Australian Institute of Geoscientists (AIG). Mr Rutherford is the Managing Director of the Company. Mr Rutherford has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking 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" (the JORC Code). Mr Rutherford consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.



Red Metal Limited

Rob Rutherford – Managing Director

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