## DECEMBER 2023 QUARTERLY REPORT WEBINAR

## BRUCE GRIFFIN EXECUTIVE CHAIR

# 23 January 2024

ASX: SFX www.sheffieldresources.com.au



# **NOTICE AND DISCLAIMER**

#### IMPORTANT: You must read the following in conjunction with this document.

#### Summary information in relation to Sheffield

This document contains summary information about Sheffield Resources Limited (ACN 125 811 083) (**Company** or **Sheffield**), its subsidiaries and their activities which is current as at the date of this document, unless otherwise indicated. The information in this document remains subject to change without notice. The information in this document does not purport to be complete nor does it contain all the information that would be required in a disclosure statement or prospectus prepared in accordance with the Corporations Act 2001 (Cth). This presentation should be read in conjunction with Sheffield's periodic and continuous disclosure announcements lodged with the Australian Securities Exchange (ASX), which are available at <a href="http://www.sheffieldresources.com.au/irm/content/asx-announcements1.aspx?RID=398">http://www.sheffieldresources.com.au/irm/content/asx-announcements1.aspx?RID=398</a> or <a href="http://www.sheffieldresources.com.au/irm/content/asx-announcements1.aspx?RID=398">www.asx.com.au</a>, including and in particular "\$30m Share Placement And Entitlement Issue To Advance Sheffield Growth Strategy".

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#### Information regarding the South Atlantic Project

All information in this presentation relating to the South Atlantic Project has been sourced from Rio Grande Mineração S/A (RGM). The information in this announcement that relates to the Retiro and Bujuru Exploration Targets is based on information compiled under the guidance of Mr Greg Jones, a Competent Person who is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM). Mr Jones is an employee of IHC Mining and 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 Jones consents to the inclusion in the report of the matters based on his information relating to the Source Sheffield Growth Strategy'' dated 28 February 2023 which contains relevant exploration results. For RGM reported in compliance with the Joint Ore Reserves (JORC Code). Nothing has come to the attention of Sheffield Growth Strategy'' dated 28 February 2023 which contains relevant exploration results. Nothing in this presentation can be relied on as implying that there has been no change to any information relating to the South Atlantic Project since the date of this presentation, or as a representation to RGM and its projects.

#### Industry data

Certain market and industry data used in connection with or referenced in this document, including in relation to other companies in Sheffield's peer group, may have been obtained from public filings, research, surveys or studies made or conducted by third parties, including as published in industryspecific or general publications. Neither Sheffield or their respective representatives have independently verified any such market or industry data.

#### **Compliance Statements**

This presentation should be read in conjunction with the following announcements by the Company: "KMS Bankable Feasibility Study Presentation" dated 24 March 2022, "Thunderbird Ore Reserve Update" dated 24 March 2022, "Thunderbird BFS, Results, Financing and Project Update" dated 24 March 2022, "Thunderbird Final Investment Decision" and "Final Investment Decision – Presentation" dated 10 October 2022 and "Mineral Resource and Ore Reserve Statement" dated 24 September 2019 (the **Primary Announcements**). Information in this document in relation to Mineral Resources, Ore Reserves and metallurgy and process design has previously been reported in the Primary Announcements. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements and, in the case of the 24 September 2019 Thunderbird Mineral Resource and Ore Reserve Update, that all material assumptions and technical parameters underpinning the estimates with regards to the Company in the relevant market announcement continue to apply and have not materially changed. The Company confirms that all material assumptions derived from any production target that is disclosed in this announcement continue to apply and have not materially changed. The Competent Person's findings are presented and have not been materially modified from the original market announcements.

#### Estimates of Mineral Resources and Ore Reserves and Exploration Results

This document and the Primary Announcements contain estimates of Ore Reserves and Mineral Resources and information that relates to exploration results. The Company confirms that all material assumptions underpinning any production target and any forecast financial information derived from any production target that is disclosed in this presentation continue to apply and have not materially changed. The Company confirms that the form and context of the Competent Person's findings are presented and have not been materially modified from the original market announcements. It is a requirement of the ASX Listing Rules that the reporting of ore reserves and mineral resources in Australia comply with the JORC Code. Investors outside Australia should note that while exploration results, mineral resources and ore reserves estimates of Sheffield in this presentation comply with the JORC Code. Investors outside Australia should note that while exploration results, mineral resources and ore reserves estimates of Sheffield in this presentation comply with the JORC Code. Investors outside Australia should note that while exploration results, mineral resources and ore reserves estimates of Sheffield in this presentation comply with the JORC Code. Investors outside Australia should note that while exploration results, mineral resources and ore reserves estimates of Sheffield in this presentation comply with (i) National Instrument 43-101 (Standards of Disclosure for Mineral Projects) of the Canadian Securities Administrators; or (ii) Industry Guide 7, which governs disclosures of mineral resources in registration statements filed with the US Securities and Exchange Commission (SEC). Information contained in this presentation describing mineral deposits may not be comparable to similar information made public by companies subject to the reporting and disclosure requirements of Canadian or US securities laws.

#### Not financial product advice

This document does not constitute, and is not intended to constitute, investment or financial product advice (nor tax, accounting or legal advice). This document should not be relied upon as advice to investors or potential investors and has been prepared without taking account of any person's individual investment objectives, financial situation or particular needs. Any investment decision should be made based solely upon appropriate due diligence. Except to the extent prohibited by law, the Relevant Parties disclaim all liability that may otherwise arise due to any of this information being inaccurate or incomplete. By obtaining this document, the Recipient releases the Relevant Parties from liability to the Recipient for any loss or damage that it may suffer or incur arising directly or indirectly out of or in connection with any use of or reliance on any of this information, whether such liability arises in contract, tort (including negligence) or otherwise.

#### **Financial data**

A number of figures, amounts, percentages, estimates, calculations of value and fractions in this document are subject to the effect of rounding. Accordingly, the actual calculation of these figures may differ from the figures set out in this document. All currency amounts are in Australian Dollars (\$ or A\$) unless otherwise stated.

#### Future performance, forward-looking statements and key risks

This document contains certain "forward-looking statements". Forward-looking statements can generally be identified by the use of forward looking words such as "forecast", "likely", "believe", "future", "project", "opinion", "guidance", "should", "could", "target", "propose", "to be", "foresee", "aim", "may", "will", "expect", "intend", "plan", "estimate", "anticipate", "continue", "indicative" and "guidance", and other similar words and expressions, which may include, without limitation, statements regarding plans, strategies and objectives of management, anticipated production dates, expected costs or production outputs for the Company, based on (among other things) its estimates of future production of the Thunderbird Mineral Sands Mine and the future operation of Sheffield and the Thunderbird Project.

To the extent that this document contains forward-looking information (including forward-looking statements, opinions or estimates), the forward-looking information is subject to a number of risk factors, including those generally associated with the mineral sands industry. Any such forward-looking statement also inherently involves known and unknown risks, uncertainties and other factors that may cause actual results, performance and achievements to be materially greater or less than estimated. These factors may include, but are not limited to, changes in commodity prices, foreign exchange fluctuations, general economic and share market conditions, increased costs and demand for production inputs, the speculative nature of exploration and project development (including the risks of obtaining necessary licenses and permits and diminishing quantities or grades of reserves), changes to the regulatory framework within which the Company operates or may in the future operate, environmental conditions, geological and geotechnical events, and environmental issues, and the recruitment and retention of key personnel.

# SHEFFIELD RESOURCES

Assembling a portfolio of global mineral sands development and production assets to generate cash returns and growth

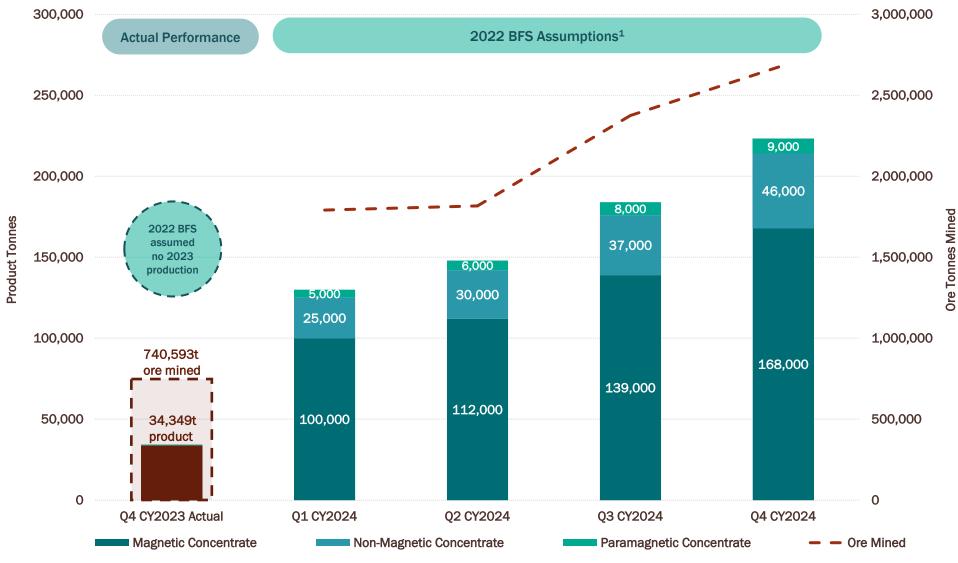
CORE ASSET	KMS GROWTH	SOUTH ATLANTIC	FUTURE GROWTH
Thunderbird Mineral Sands Mine (50% interest)	Enhance KMS through	South Atlantic Option	Review of other quality mineral sands opportunities
<ul> <li>Production commenced, ramp up underway</li> <li>A\$75m cash &amp; undrawn facilities at the start of 2024</li> <li>On target for first bulk customer deliveries in Q1 2024, first shipment in bags completed</li> </ul>	<ul> <li>Thunderbird Stage 2, incremental NPV<sub>8</sub> of \$548m<sup>1</sup></li> <li>Additional zones of mineralisation along a 120 km trend</li> <li>East Derby construction sand opportunity</li> </ul>	<ul> <li>Exploration Target ranging between 500 to 720Mt at 3.2 to 4.0% HM<sup>2</sup></li> <li>Exploration Targets comprising sulfate ilmenite and zircon</li> <li>Option Agreement executed with US\$2.5m contribution to fund de-risking activities</li> </ul>	<ul> <li>Targeting advanced projects with potential to unlock value by applying Sheffield's mineral sands and funding experience</li> </ul>
<ul> <li>Stage 1 NPV<sub>8</sub> \$842m<sup>1</sup></li> <li>Sheffield share \$421m -</li> <li>c.100% above current market capitalisation</li> </ul>			

Reference:

<sup>.</sup> The material assumptions and other matters required by LR 5.16 and 5.17 in respect of this financial information derived from any production target are set out in the Primary Announcements. The Company confirms that all material assumptions underpinning any production target and any forecast financial information derived from any production target that is disclosed in this presentation continue to apply and have not materially confirms that the form and context of the Competent Person's findings are presented and have not been materially modified from the Primary Announcements.

<sup>2.</sup> The potential quantity and grade of the Exploration Target is conceptual in nature, as there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource. (Low-grade cut-off above 1.0% HM; High-grade cut-off above 2.0%HM). HM – heavy mineral, VHM – valuable heavy mineral, THM – total heavy mineral (same as HM).

# PRODUCTION COMMENCED OCTOBER 2023 Q4 CY2023 ACTUAL AND 2022 BFS ASSUMPTIONS



#### Reference:

1. ASX Announcement: "Thunderbird BFS Results, Financing And Project Update" dated 24 March 2022

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# FIRST ORE PRODUCTION IN OCTOBER 2023



PROCESS PLANT HMC AND PRODUCT STOCKPILES DECEMBER 2023

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DE RISKING RAMP UP

# Design for Key Risks

## Mining fleet and DMU sized for 1800tph vs WCP at 1,085tph

- Main variability is proportion of oversize/undersize
- Sub 12mm ore to WCP can be maintained even with high oversize

### Starter pit open in all directions

- ++ Main variability is proportion of oversize/undersize
  - Can manage by flexing mining direction

## Tailings Dam ~ 2 years

++ Removes tight linkage between in-pit tailings and mining

### Stormwater Surge Pond

- ++ ~ 2 weeks water supply at full production
- ++ Larger buffer than process water pond + bore field

## WCP 10% higher throughput than CUP + HMC stockpile

++ Use stockpile to main steady CUP throughput

## Concentrates not final products

- No hard product specification
- Greater flexibility to optimise throughput and yield

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# FULLY FUNDED TO EXECUTE PROPOSED WORK PROGRAM

## A\$23m cash balance at end of CY 2023, with adequate proceeds to fund work programs extending throughout CY2025



Total Forecast & Contingent Commitments ~A\$23M

#### Reference:

- 1. See ASX Announcement: "\$30m Share Placement and Entitlement Issue To Advance Sheffield Growth Strategy" of 28 February 2023 for a more detailed summary of the RGM Option Agreement.
- 2. First payment of \$US1million for South Atlantic Option paid on 10 March 2023
- 3. Assumes \$2m p.a. for CY2024 and CY2025

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Assembling a portfolio of global mineral sands development and production assets to generate cash returns and growth

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# THANKYOU

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