

## Battery Age Minerals Identifies Germanium Concentrate at Historic Bleiberg Mine

### HIGHLIGHTS

- **Germanium Concentrate at Bleiberg:** Recent fieldwork by Battery Age Minerals has located the presence of Germanium concentrate from historical mining operations at the Bleiberg mine in Austria, marking a significant step in the company's focus on the project.
- **Historical Significance of Bleiberg Mine:** The Bleiberg mine, with a 700-year history, was a major global producer of several critical minerals, including germanium, and has historically contributed approximately 172 tonnes of germanium, solidifying its importance in the global market<sup>1</sup>.
- **Focus on Advanced Technological Applications:** The Company plans to conduct grade testing and specialized assessments of Germanium-76 isotope ratios, which are vital for the semiconductor industry, to evaluate the potential of Bleiberg's strategic critical materials for advanced technologies.

Battery Age Minerals Ltd (ASX: **BM8**; “**Battery Age**” or “**the Company**”) is pleased to announce that recent fieldwork, led by CEO Nigel Broomham and Chief Geological Advisor Dr. Simon Dorling, has located a sample of Germanium concentrate from historical mining and beneficiation operations at Bleiberg. This marks a significant milestone as the Company intensifies its focus on the project and its potential to address the growing demand for critical minerals essential for advanced semiconductor technologies

The Bleiberg mine, located in Austria, boasts a rich 700-year history of mining operations, making it one of Europe's most significant mineral producers. Known for its high-grade mineralisation, Bleiberg was a major global supplier of zinc, lead, germanium, molybdenum, and cadmium. During its operational period, the mine recovered approximately ~172 tonnes of germanium, cementing its status as one of the world's largest germanium producers<sup>1</sup>.

Germanium concentrate identified from historical mining and beneficiation at Bleiberg presents a significant opportunity to support advanced technological applications. Battery Age plans to conduct grade testing to evaluate the quality of the concentrate, alongside specialized assessments of Germanium isotope ratios. Germanium has five naturally occurring isotopes, <sup>70</sup>Ge, <sup>72</sup>Ge, <sup>73</sup>Ge, <sup>74</sup>Ge, and <sup>76</sup>Ge. These isotopes are integral to the semiconductor industry, enhances the performance and miniaturization of technologies such as infrared optics, fiber-optic systems, and advanced transistors. These testing efforts are focused on confirming the high-grade potential of the mineralisation and establishing Bleiberg potential as a strategic supplier of critical materials for the global semiconductor market.

The Company is committed to advancing the Bleiberg Germanium Project and will announce the results of the grade testing and Germanium isotope assessments to the market as soon as they become available. Looking forward, Dr. Dorling and Mr. Broomham will prepare documentation for the Company's maiden drilling permit, with plans to submit this before the end of calendar year 2024.



Figure 1: Bleiberg Zinc Lead Germanium Project located in the state of Carinthia, Austria.

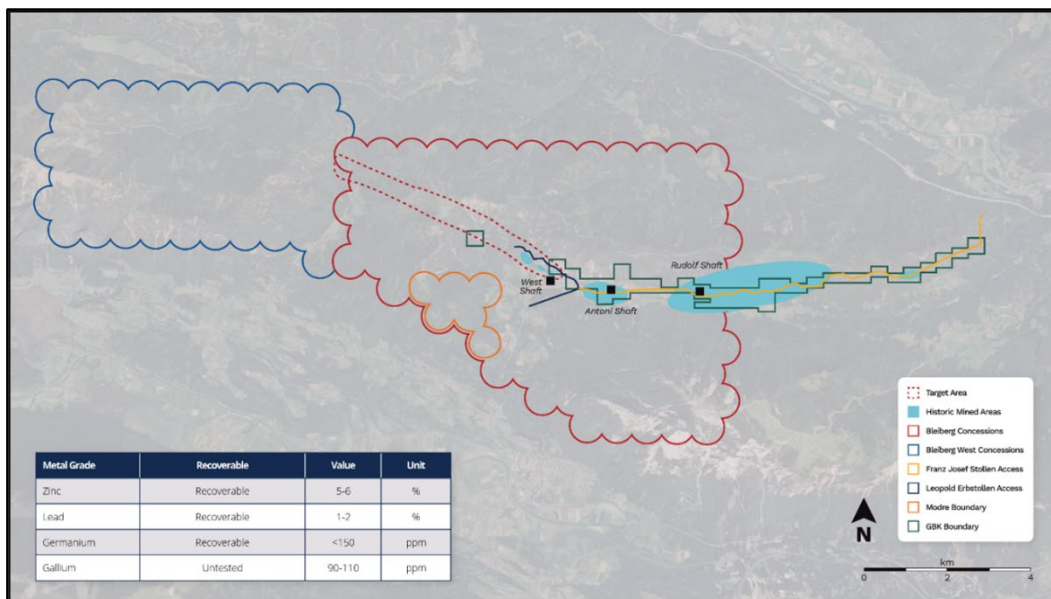


Figure 2: Identified mineralised trend located along strike from historical workings. Inset table demonstrates historical data for the Bleiberg Mine from previous workings<sup>1</sup>.

**Battery Age CEO, Nigel Broomham, commented:**

*"We are thrilled to locate a sample of Germanium concentrate at the Bleiberg mine. With its rich history and high-grade mineralisation, Bleiberg holds immense potential as a strategic source of critical minerals for the rapidly growing semiconductor industry. The recent sanctions imposed by China on germanium exports further highlight the critical need for alternative and secure supply sources. As we move forward with grade testing and specialized assessments of Germanium-76, together with the preparation for our 2025 exploration activities, we increase our confidence that this project will position us at the forefront of supplying materials essential for advanced technologies, and we look forward to sharing the results with the market in due course."*

**References:**

1. Zeeh, S. and Bechstadt, T. (1994). Carbonate-Hosted Pb-Zn Mineralization at Bleiberg-Kreuth (Austria): Compilation of Data and New Aspects. In: Fontbote, L. and Boni, M. editors, Sediment Hosted Pb-Zn Ores, Special Publication No. 10 of the Society for Geology Applied to Mineral Deposits. pp. 271-2962  
Cerny, I. (1991). Lagerstättenforschung in Kärnten Neuergebnisse und Aspekte für die Zukunft. Carinthia 181./101. Jahrgang S. 119-129 Klagenfurt 1991  
Cerny, I. and Schroll, E. (1995). Spezialmetallgehalte in ZnS-Konzentraten der Lagerstätte Bleiberg-Kreuth. Arch. f. Lagerst.forsch. Geol. B.-A. ISSN 0253-097X Band 18 S. 5-33 Wien, Juni 1995  
Schroll, E. (2006). Neues zur Genese der Blei-Zink Lagerstätte Bleiberg. Carinthia II 196./116. Jahrgang Seiten 483-500 Klagenfurt 2006  
Multi-Met (2023) Bleiberg Project - Multi-Met, Multi. Available at: <https://multimetdev.com/projects/bleiberg-project/>  
Schor, D. (2021) TSMC details 5 nm, WikiChip Fuse. Available at: <https://fuse.wikichip.org/news/3398/tsmc-details-5-nm/> (Accessed: 25 February 2024).  
Leach, D, Taylor, R, Fey, D et al. (2010), , A deposit model for Mississippi Valley-Type lead-zinc ores, USGS Scientific Investigations Report 2010-5070-A  
Mining Insights Pty Ltd, Independent Geologists Report, 1 December 2022
2. Refer to earn-in terms and structure set out in the Company's Prospectus dated 7 December 2022

[ENDS]

*Release authorised by the Board of Battery Age Minerals Ltd.*

**Contacts****Investors / Shareholders**

Nigel Broomham  
Chief Executive Officer  
P: +61 (0)8 6109 6689  
E: [info@batteryage.au](mailto:info@batteryage.au)

**Media**

Kelly-Jo Fry  
Battery Age Minerals  
P: +61 (0)8 6109 6689  
E: [kjfry@batteryage.au](mailto:kjfry@batteryage.au)

## **Compliance Statement**

This report contains information on the Falcon Lake Project extracted from an ASX market announcement dated 7 December 2022, 2 February 2023, 4 July 2023, 26 July 2023, 31 July 2023, 2 August 2023, 16 August 2023, 6 September 2023, 14 September 2023, 5 October 2023, 16 October 2023, 25 October 2023, 30 November 2023, 13 December 2023, 8 July 2024, 12 August 2024 and 12 September 2024 released by the Company and reported in accordance with the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (JORC Code). The original market announcement is available to view on [www.batteryage.au](http://www.batteryage.au) and [www.asx.com.au](http://www.asx.com.au). Battery Age is not aware of any new information or data that materially affects the information included in the original market announcement.

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