

Exploration Targeting Commences on Bleiberg Zinc-Germanium Project, Austria

Over 100 years of historic data collated and digitised, allowing BM8 geologists to fast-track exploration, targeting potential extensions of the known mineralisation from the historic Bleiberg Mine.

HIGHLIGHTS

- Senior Battery Age geologists have returned from Austria, where they successfully accessed, collated and digitised over 100 years of historic mining data from the Bleiberg Zinc-Lead-Germanium Mine in Austria.
- The acquisition of this high-quality dataset represents a major bonus for Battery Age, allowing it to fast-track the development of its exploration plan strategically targeting extensions of the known mineralisation on its tenements.
- Battery Age is primarily focused on early-stage exploration for Germanium and Gallium, both highly strategic minerals used in a range of specialist applications including High-Performance Logic Chips which are used in Electronic Vehicles, Artificial Intelligence and Quantum Computing.
- At time of its closure, the Bleiberg mine was the 6th largest producer of Germanium globally and one of the largest outside of China¹.
- Although not historically produced at Bleiberg, Gallium mineralisation has also been identified in the historical workings, with grades ranging between 90-110g/t.
- China's recent restrictive export policy on Germanium and Gallium further enhances the strategic importance of the Bleiberg asset³.

Battery Age Minerals Ltd (ASX: **BM8**; “**Battery Age**” or “**the Company**”) is pleased to advise that it has commenced detailed exploration targeting utilising the extensive and high-quality datasets obtained recently from the Bleiberg Zinc-Lead-Germanium Mine in Austria.

Data collected includes topographic information, geological maps and sections, underground mine workings and developments, exploration drilling datasets and all relevant reports covering exploration, production and technical reporting from the 1970's to late 1980's.

The Company's exploration team has been working in close collaboration with the in-country GKB-Bergbau GmbH team to validate QA/QC and leverage their extensive geological and mining experience within the region. Having collated and digitised the data, the Battery Age team is now exceptionally well placed to proceed with defining a targeted exploration plan.

Germanium & Gallium

The highly strategic nature of Germanium has been reinforced recently by the Taiwan Semiconductor Manufacturing Company Limited ("TSMC") announcing plans to increase the use of Germanium in next-generation Si-Ge chips, due to its superior electron mobility compared to Silicon², and China placing constraints on the export of the mineral³. This puts BM8 in a strong position to pursue exploration to satisfy a growing need for Germanium.

Gallium arsenide is used in the manufacturing of semi-conductor wafers which can operate at higher frequencies and are heat resistant, as opposed to when silicone is used. They also produce less noise than silicon devices, especially at high operating frequencies, making them useful in radars and radio communication devices, satellites and LED's.

The U.S, EU, Japan, India and Australia have all placed Germanium and Gallium on their critical mineral list due to their importance, concentration and scarcity, highlighting the significant strategic opportunity for Battery Age and the Bleiberg Project, which is uniquely positioned to become a disruptor to the rigid supply chain for these future-facing semi-conductor commodities.

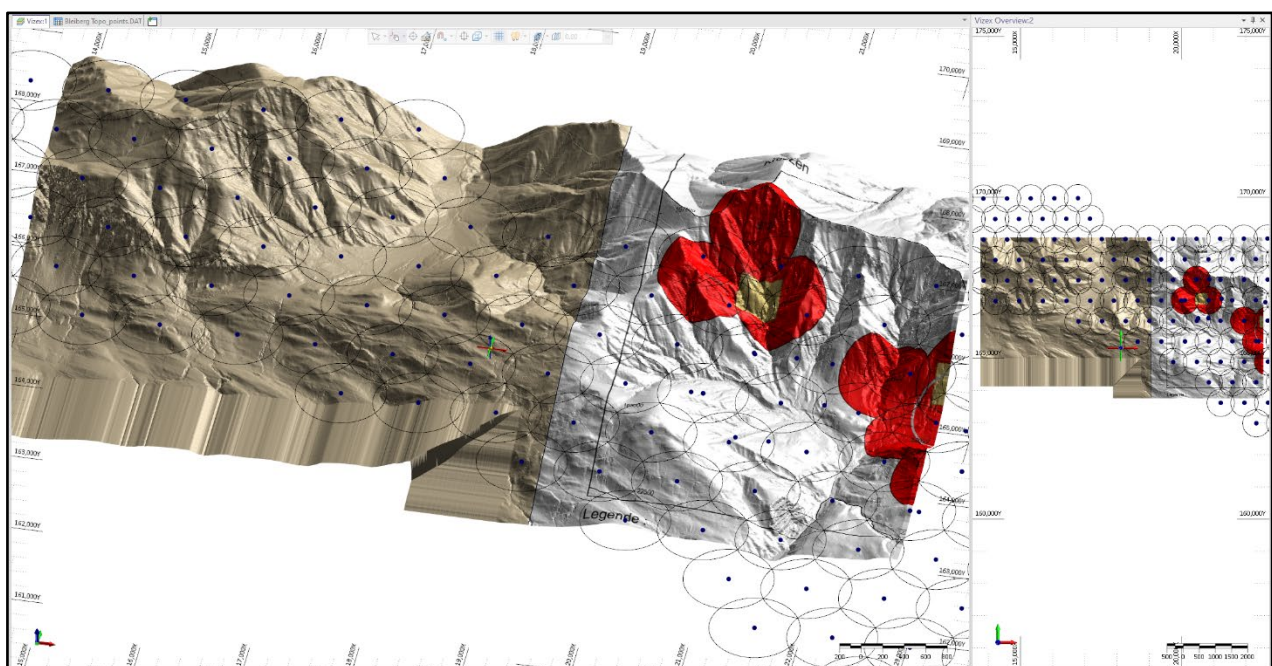


Figure 1 – Screenshot capturing 3D workspace generated from data retrieved from recent visit to Austria.

The Company is planning to expedite Germanium and Gallium exploration in Austria alongside its ongoing work at the Falcon Lake Lithium Project in Canada.

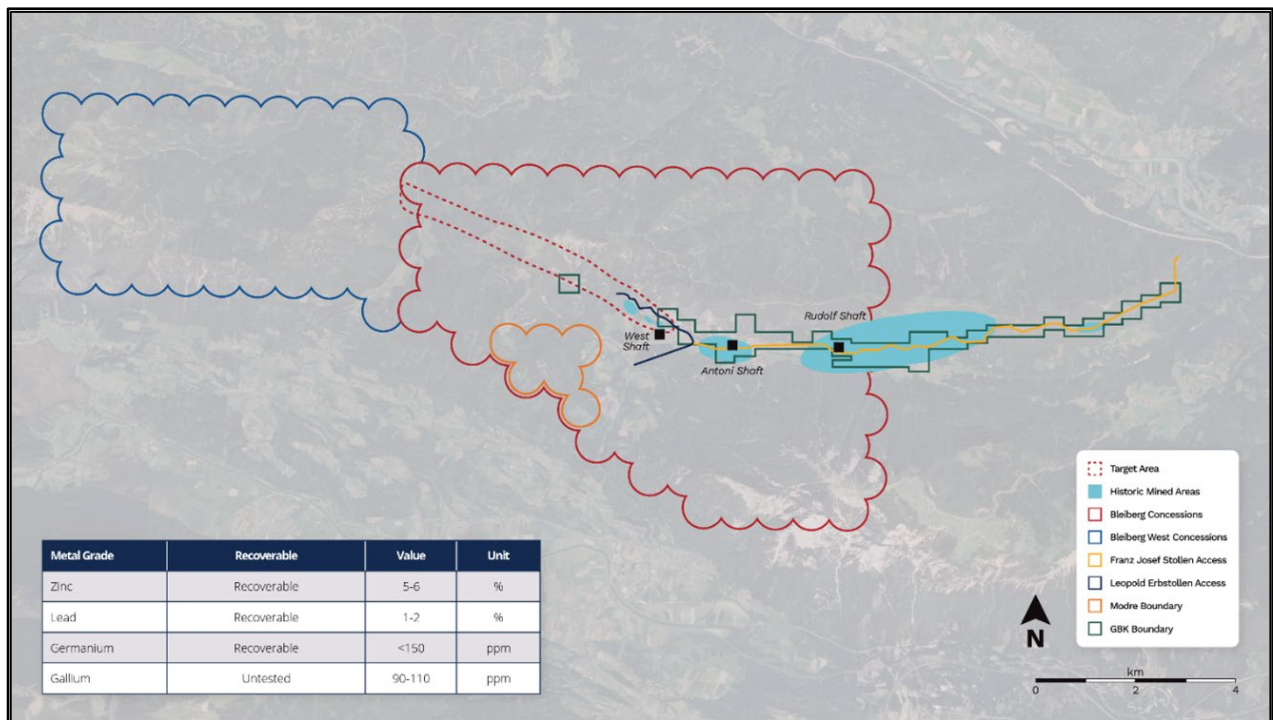


Figure 2 – Identified mineralised trend located along strike from historical workings. Inset table demonstrates historical data for the Bleiberg Mine from previous workings^{i,8}.

Battery Age CEO Nigel Broomham commented:

“The recent acquisition over 100 years of data from the Bleiberg Mine was a huge accomplishment for Battery Age, and we are pleased that our team has been able to move so swiftly to collate and digitise this highly valuable dataset.

“I would like to acknowledge the help and support of GKB, who worked closely with the BM8 geologists while they were in-country. Their assistance and support has been invaluable.

“With the team now back in Australia, desktop work has commenced in earnest to work our way through this information and develop exploration targets.

“We are looking forward to publishing the results of this work over the coming weeks and updating the market on our exploration plans at Bleiberg for these highly strategic future-facing semi-conductor metals.”

Release authorised by the Board of Battery Age Minerals Ltd.

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Compliance Statement

This announcement contains information on the Bleiberg Project extracted from an ASX market announcements dated 8 December 2022, 2 February 2023, 13 July 2023 and 26 February 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 and 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 and, in the case of estimates of Mineral Resources (as that term is defined in the JORC Code) that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.

References:

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3. Refer Thomson Reuters "China's rare earths dominance in focus after it limits germanium and gallium exports", 5 July 2023, refer CNN "China hits back in chip war, imposing export curbs on crucial raw materials" 3 July 2023.
4. Multi-Met (2023) Bleiberg Project - Multi-Met, Multi. Available at: <https://multimetdev.com/projects/bleiberg-project/>
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6. 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).
7. 5NM technology, Taiwan Semiconductor Manufacturing Company Limited. Available at: https://www.tsmc.com/english/dedicatedFoundry/technology/logic/l_5nm
8. Refer to earn-in terms and structure set out in the Company's Prospectus dated 7 December 2022.