



# INVESTOR PRESENTATION ACQUISITION OF THE STRATEGIC PROPHET RIVER GE-GA PROJECT

Prophet River, British Columbia, Canada – Brownfields Exploration Project  
Strategic Metals – Germanium and Gallium

FEBRUARY 2025

ASX: **RLL**

This presentation has been approved by the Board of Rapid Lithium Limited

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## **Competent Persons Statement**

The information in this announcement that relates to exploration results is based on information compiled by Mr. Zhonghua Pan, a Competent Person and a member of Engineers and Geoscientists British Columbia, Canada (Registration number: 62496). Mr. Pan 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 (JORC 2012). Mr. Pan is the principal geologist and director at JP-Ant Geoconsulting Ltd.

Mr. Pan consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.





**RAPID**  
**LITHIUM**

# PROJECT HIGHLIGHTS

*Regional shot of the Black Hills Area"*



# Major Highlights



## Strategic Zinc / Germanium / Gallium Project

Gallium prices have surged in recent years, primarily due to increased demand in the electronics and semiconductor industries

Uses of Ga include the manufacture of compound semiconductor wafers that are used in integrated circuits and optoelectronic devices including laser diodes, light-emitting diodes (LEDs), photodetectors, and solar cells

Gallium's unique properties, such as its low melting point and ability to form useful compounds, makes it a critical element with applications spanning various industries, particularly in advanced technology and electronics

The global gallium market is heavily dominated by China, with other countries playing much smaller roles. Currently China produces approximately 98% of the world's supply of raw gallium



## Strategic Zinc / Germanium / Gallium Project

The Prophet River Project is located in British Columbia with prior exploration demonstrating the high-grade nature of the Zinc, Germanium and Gallium mineralisation:

- 21 previous drill holes completed with bulk samples from two zones graded up to 22.69% Zn, 40 g/t Ga, 1,500ppm Ge and 0.36% Pb\*
- 100% interest in 2,110 Ha (21km<sup>2</sup>) covering the historic Cay Mine and surrounding prospective areas
- Germanium and Gallium are exceptionally high value strategic metals used in the technology sector, semi-conductors, fibre-optics, solar cells, magnets, batteries and LEDs with recent increases in commodity prices – **China has banned the export of Germanium and Gallium making it a key strategic metal of high value**
- Prophet River bulk samples reported **some of the highest Germanium values recorded globally – a key strategic project**

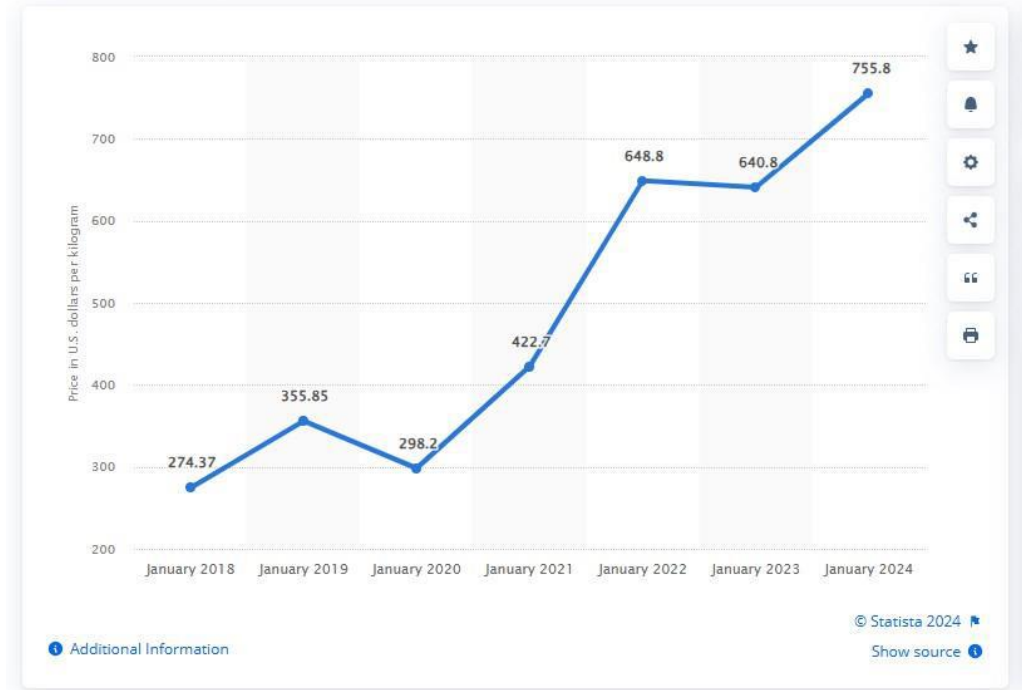


## Experienced team and global demand

Collectively our management and Board has the pedigree to find and progress resources projects on a global stage

Recent market disruptions including Chinese export controls in August 2023 has seen a significant increase in the Gallium price

**Gallium price worldwide from January 2018 to January 2024**  
(in U.S. dollars per kilogram)



\* Refer to ASX Announcement dated 20 December 2024



# Prophet River Ge/Ga Project



- The Prophet River Project is located in British Columbia with prior exploration demonstrating the high-grade nature of the Zinc, Germanium and Gallium mineralisation:
  - 21 previous drill holes completed with bulk samples from the Nose Zone grading 22.69% Zn, 40 g/t Ga, 1,500ppm Ge and 0.36% Pb\*
- 100% interest in 2,110 Ha (21km<sup>2</sup>) covering the historic Cay Mine and surrounding prospective areas
- Germanium and Gallium are exceptionally high value strategic metals used in the technology sector, semi-conductors, fibre-optics, solar cells, magnets, batteries and LEDs with recent increases in commodity prices – **China has banned the export of Germanium and Gallium making it a key strategic metal of high value**
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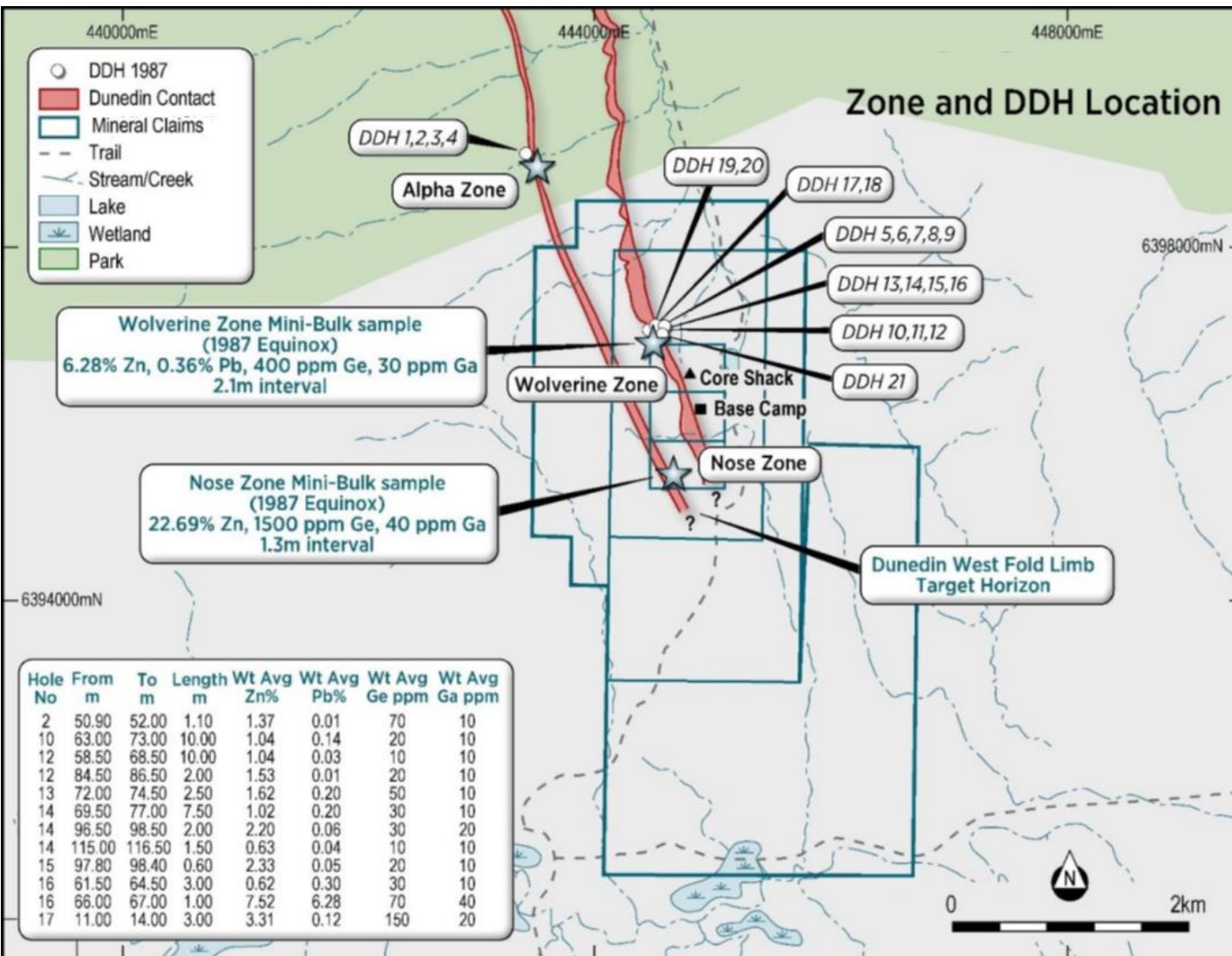


Figure 1: Project location map. Prophet River Germanium-Gallium Project, British Columbia, Canada

\* Refer to ASX Announcement dated 20 December 2024



# Prophet River Ge/Ga Project

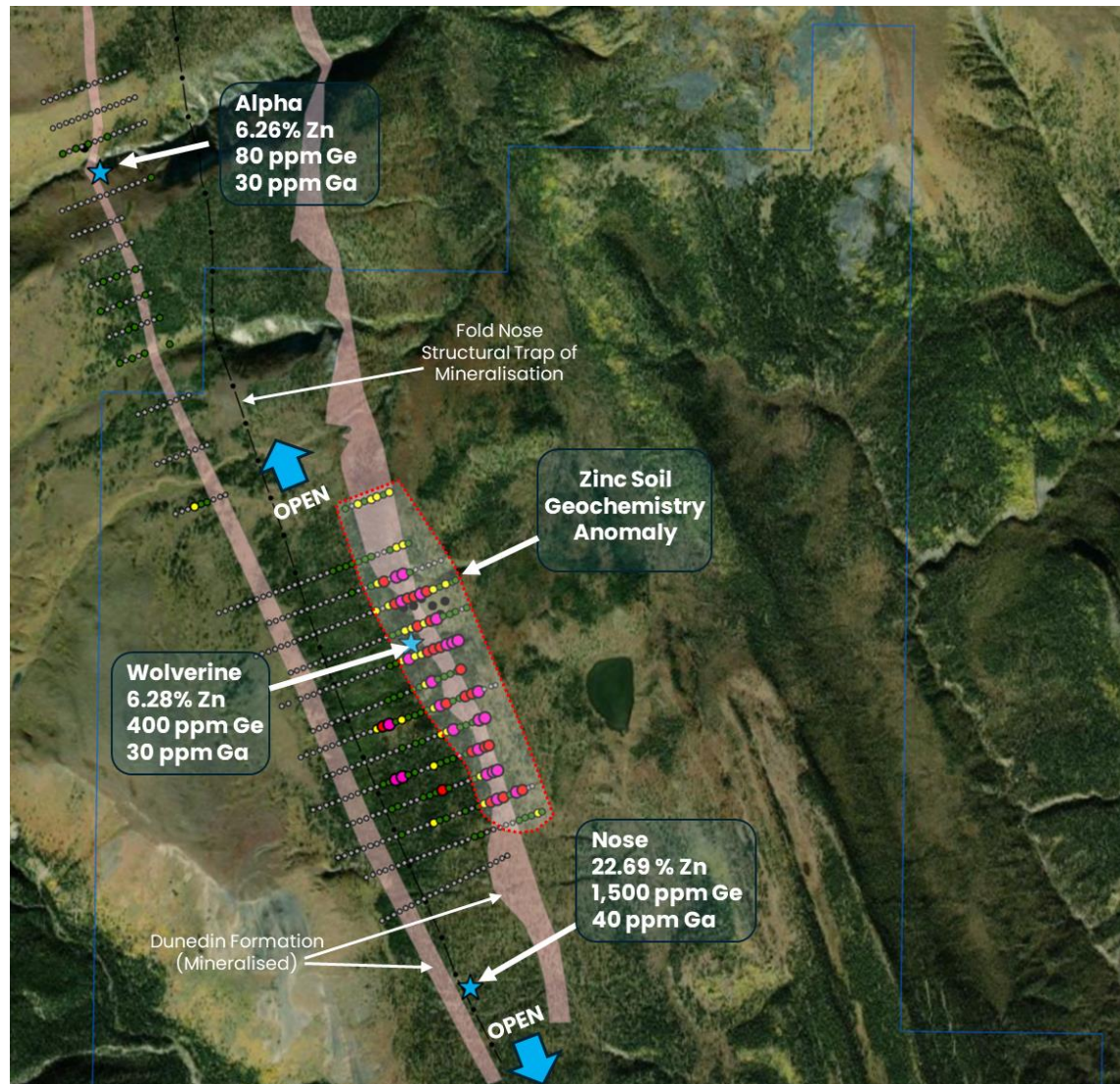


- Wolverine Zone bulk sample assayed 6.28% Zn, 0.36% Pb, 400ppm Ge, 30ppm Ga over 2.1m
- Nose Zone bulk sample assayed 22.69% Zn, 1,500ppm Ge, 40ppm Ga over 1.3m
- Approximately 55km from nearby highway
- Targeting Robb Lake Belt Zn – Pb in Siluro-Devonian carbonate rocks
- Germanium and Gallium associated with sulphides facies that may be amenable to flotation

**Figure 2:** Historic drill hole locations and results. Bulk sampling locations and results also shown. Prophet River Ga-Ge project



# Major Mineralised System

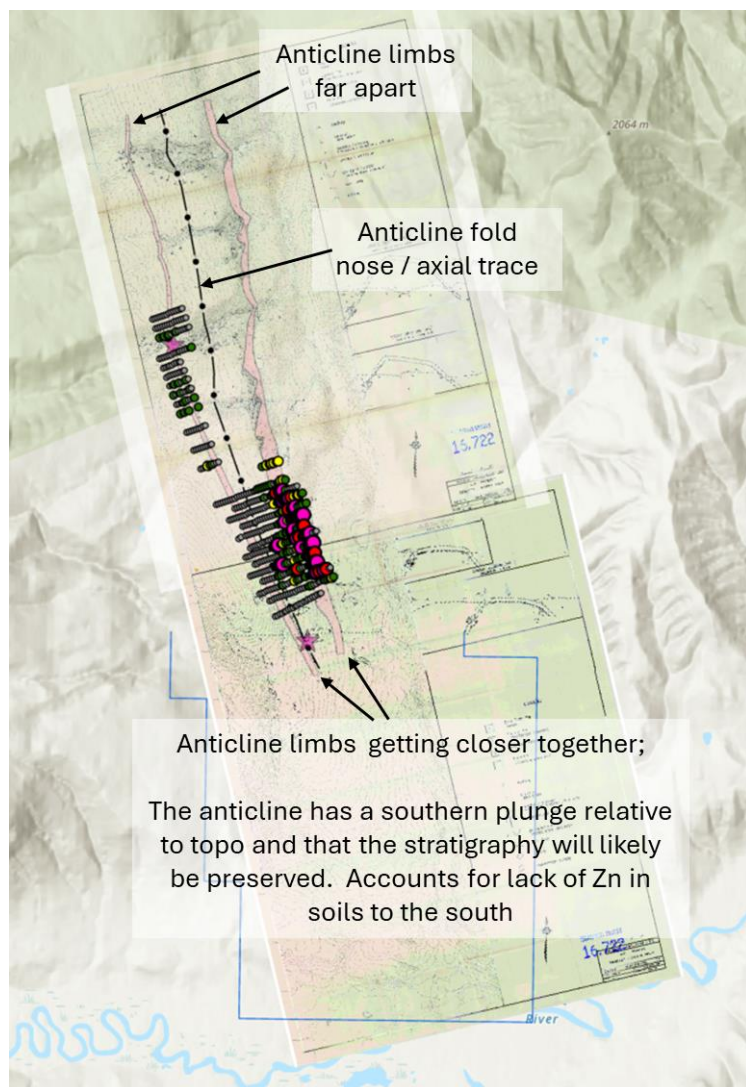


- Target geological formation is the mineralised Dunedin Formation which strikes in an approximate North-South direction
- Soil sampling has highlighted a major mineralised system striking more than 1 km with soil samples >1,000 ppm Zn being identified
- Mineralisation remains open to the north and south under cover due to the plunge of the anticline and the topography preserving the stratigraphy
- Two parallel mineralised bodies have been identified at the project with both the Nose Zone and Alpha Zone bulk-samples collected on the parallel formation – *note that Alpha Zone sits outside of the licence boundaries inside the Northern Rocky Mountains Park – all other licences sit outside the boundary of the Northern Rocky Mountains Park*
- Zinc soil anomaly has not been adequately tested with further soil sampling, trenching and drilling to be conducted
- Germanium and Gallium associated with the zinc sulphides with further high-grade discoveries still to be made

**Figure 3:** Historic soil sampling grid and contoured results. Zinc geochemical anomaly highlighted across the mineralised Dunedin Formation. Mineralised system remains open in both directions. Bulk sampling location and results also shown. Prophet River Ga-Ge project



# Under-explored Mineralised Zones



- Historical exploration has been focused on drilling and sampling in and around the bulk sampling areas demonstrating high-grade results for zinc, germanium and gallium
- Follow-up exploration campaigns are planned to extend the zinc soil anomaly both in a north and south direction as well as undertake trenching across the width of the mineralised Dunedin Formation
- Depending on the success of the trenching, high-confidence drill targets will be prioritised and initial reconnaissance drilling will be undertaken
- Modern geophysical techniques have not been applied at the Prophet River Project
- Geophysics is a fast and efficient exploration method which is expected to demonstrate significant exploration potential and extensions of the mineralised horizons given the high sulphide and carbonate presence
- Early indication metallurgical testwork will also be conducted designed to demonstrate the potential to separate the Germanium and Gallium from the Zinc mineralisation
- Previous exploration work has indicated that this belt of Devonian lithology is a favourable host for lead-zinc-gallium-germanium mineralisation

**Figure 4:** Historic soil sampling grid and contoured results. Zinc geochemical anomaly highlighted across the mineralised Dunedin Formation. Geological descriptions also included highlighting under-explored nature of the project and the significant exploration upside. Prophet River Ga-Ge project



# Planned Work Program and Near-Term Catalysts



## TARGETED EXPLORATION

- Prospect mapping and rock chip sampling
- Follow up bulk sampling and geophysics
- Project wide stream sediment and soil sampling
- Phase 1 trenching and follow on trenching of high priority targets
- Definition of drill targets

## RESOURCE DISCOVERY

- RC and Diamond drilling to deliver a maiden MRE for Prophet River Ge-Ga Project
- Advance pipeline of prospects to drilling status
- Phased drilling approach across RC and Diamond to ensure adequacy of data and testing of all high-priority targets
- Continue to build on initial MRE at Prophet River and develop the project for a standalone operation benefiting from the existing infrastructure and proximity to nearby projects and operations

## DEVELOPMENT & PRODUCTION

- Strategic development and down-stream processing capabilities to drive the Prophet River Ge-Ga Project forward
- Alliance with key North American strategic parties benefiting from the “domestic” production capability
- Focus is on the development of a bulk tonnage and low-cost open pit mining operation
- Progressive development and exploration of other complimentary and strategic project areas
- Potential to collaborate with other operations in the nearby area and create a multi-generational mining project for the benefit of local communities
- Significant in-country opportunities including training, skills development and education



# Investment Summary



- **Right Commodities:** Zinc + Germanium + Gallium - **Future Facing Battery Critical Metals**
- **Right Place:** stable, safe and mining friendly British Columbia
- Licences are all held in areas that are adjacent to and along strike of proven JORC (2012) resources and operating mines / advanced deposits
- Germanium and Gallium are exceptionally high value strategic metals used in the technology sector, semi-conductors, fibre-optics, solar cells, magnets, batteries and LEDs with recent increases in commodity prices – **China has banned the export of Germanium and Gallium making it a key strategic metal of high value**
- Follow up **drill targets already identified** at the Prophet River Zinc + Germanium/Gallium project
- Prophet River bulk samples reported **some of the highest Germanium values recorded globally – a key strategic project**
- **Clear Plan to deliver:** resource delineation and new discoveries
- **Experienced management team with expertise in exploration, mineral resource/reserve delineation, feasibility studies, mine development and production in Canada**
- Rapid is **well funded and positioned strongly** to execute on its exploration strategy focused on advanced lithium exploration on its fully permitted private land in South Dakota and initial exploration at the Prophet River Gallium-Germanium project in British Columbia
- Acquisition terms for the Prophet River Project consists of CAD\$130,000 payable in cash and 133,333,334 shares with the Vendors agreeing to staged escrow holding conditions up to 10 months ensuring alignment of Shareholder and Vendor interests focused on advancing exploration at the project



# BOARD OF DIRECTORS



**Rick Anthon**  
**Chairman**  
30+ years experience

Rick is a lawyer with over 30 years' experience in both corporate and commercial law practicing exclusively in the resource sector.

He has worked both as a Director and adviser to numerous resource companies and has extensive project planning, acquisition and development, capital raising and corporate governance skills.

Rick is the Non-Executive Chairman of Greenwing Resources Limited and a Non-Executive Director of Laneway Resources Limited.



**Martin Holland**  
**Managing Director**  
15+ years experience

Martin is a mining executive with over 15 years of corporate experience. Mr Holland is founder and Executive Chairman of Cobre. (ASX: CBE).

In addition Mr. Holland is a non executive director of Rapid Lithium Limited (ASX: RLL) and the founder and former CEO of Lithium Power International (ASX: LPI).

Mr. Holland has listed five ASX-listed exploration companies and has been an executive director in multiple companies that have collectively raised over A\$200M+ for exploration, focusing on new future metals discoveries.



**Michael Schlumpberger**  
**COO & Executive Director**  
30+ years experience

Mike is an accomplished mining executive having covered a number of GM, COO and CEO roles in multiple American mining companies.

He has a strong operational background having been in charge of exploration, of SK-1300 Resources and Reserves, permitting, surface and underground mining, milling, and reclamation.

He is an instructor at the South Dakota School of Mines covering Mining Engineering and Management.

He holds a BSc (Mining Engineering) Missouri University of Science and Technology and MBA East Carolina University.



**Michael McNeilly**  
**Non-Executive Director**  
15+ years experience

Michael is the CEO of Strata Investment Holdings plc, an ASX (SRT) listed natural resources investing company. Michael has been at the helm of Strata since 2016 and oversaw the company's monetisation of its minority joint venture interest in MOD resources. This resulted in over A\$40m of new shares in Sandfire Resources Limited (ASX:SFR) as well as a 2% NSR over 8,000km<sup>2</sup> of the Kalahari Copperbelt.

Michael is an experienced corporate financier having previously worked at Arden Partners (AIM:ARDN) and Allenby Capital in London.



**Daniel Smith**  
**Non-Executive Director**  
15+ years experience

Mr Smith holds a Bachelor of Arts, is a Fellow of the Governance Institute of Australia, and has over 15 years' primary and secondary capital markets expertise.

He is a director and co-founder of Minerva Corporate, a boutique corporate services and advisory firm. He has advised on and been involved in over a dozen IPOs/RTOS on the ASX, AIM and NSX.





**To explore further, please contact:**

**Rapid Lithium Limited**

Level 10  
27 Macquarie Place  
Sydney, NSW, 2000  
Australia

<https://rapidlithium.com.au/>

For more details, please contact Martin Holland: [Info@rapidlithium.com](mailto:Info@rapidlithium.com)

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