

- + Discovery
- + Resource Definition
- + Value Capture

## *Scandinavian Vanadium Projects*

Shareholder Webcast March 2019

**PURSUIT**  
MINERALS

[pursuitminerals.com.au](http://pursuitminerals.com.au)

# Forward Looking Statement

This Presentation contains forward-looking statements which are identified by words such as ‘may’, ‘could’, ‘believes’, ‘estimates’, ‘targets’, ‘expects’, or ‘intends’ and other similar words that involve risks and uncertainties.

These statements are based on an assessment of present economic and operating conditions, and 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 our Company, the Directors and our management.

We cannot and do 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.

We have 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 our actual results to differ materially from the results expressed or anticipated in these statements.

## References to Prior ASX Announcements

### Exploration Results

This Presentation contains information, including exploration results, extracted from the following ASX market announcements reported in accordance with the JORC Code (2012):

1. Airijoki historical drill hole results on page 4 of this presentation were reported in ASX Announcements dated 27 August 2018 and 22 January 2019
2. Koitelainen Vosa historical RC drilling results reported on page 6 of this presentation were reported in a ASX Announcements dated 9 January and 29 January 2019

The Company is not aware of any new information or data that materially affects the information contained in the referenced ASX market announcements.

### JORC Resource Estimates

This Presentation contains information relating to Inferred Mineral Resources, extracted from the following ASX announcements reported in accordance with the JORC Code (2012)

1. Airijoki Inferred Mineral Resource estimate on page 4 of this presentation was reported in an ASX announcement dated 9 March 2019
2. Koitelainen Inferred Mineral Resource estimate on page 6 of this presentation was reported in an ASX announcement dated 6 February 2019

The Company is not aware of any new information or data that materially affects the information included in the referenced ASX announcements and confirms that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed.

# Vanadium Project Portfolio

- Mineral Reservations for three projects in Finland granted March 2018
- Exploration Licences covering five project areas in Sweden, granted in August 2018
- Mining friendly, well established regulatory regimes – Finland ranked #1 mining location, Sweden #16 (Fraser Institute 2017)
- Pursuit holds 100% interest
- Access to historical data, including drill core, allowing accelerated assessment of projects
- Projects produce high grade vanadium magnetite concentrates in the upper echelon of projects globally<sup>1</sup>
- Globally significant Inferred Mineral Resources defined at the Koitelainen and Airijoki Projects<sup>2</sup>
- Scoping Studies underway and due for completion in April 2019

<sup>1</sup>See ASX Announcements 27 August 2018, 2 October 2018 and 29 October 2018

<sup>2</sup>See ASX Announcements 6 February 2019 and 7 March 2019.

The Company is not aware of any new information or data that materially affects the information contained in these announcements.



# Delivering on Project Milestones

Project	Item	Projected Completion	Actual Completion	Outcome
Koitelainen	Assessment of historical data	June 2018	June 2018 ✓	High grade vanadium magnetite concentrates confirmed
Koitelainen	JORC Exploration Target	September 2018	September 2018 ✓	JORC Exploration Target defined
Airijoki	Sampling historical drill holes	September 2018	October 2018 ✓	Confirmed vanadium mineralisation produces high grade magnetite concentrates
Simesvallen	Sampling historical drill holes	September 2018	October 2018 ✓	Vanadium mineralisation confirmed
Airijoki	First drilling program	December 2018	December 2018 ✓	SW and NE Magnetic Zones of vanadium mineralisation confirmed
Koitelainen	<b>JORC Inferred Mineral Resource</b>	December 2018	February 2019 ✓	Initial Inferred Mineral Resource Defined
Airijoki	<b>JORC Inferred Mineral Resource</b>	February 2019	February 2019 ✓	Initial Inferred Mineral Resource Defined
Airijoki	Scoping Study and Feasibility Study Decision Point	April 2019	On Track	
Koitelainen	Scoping Study and Feasibility Study Decision Point	April 2019	On Track	



# Airijoki Project

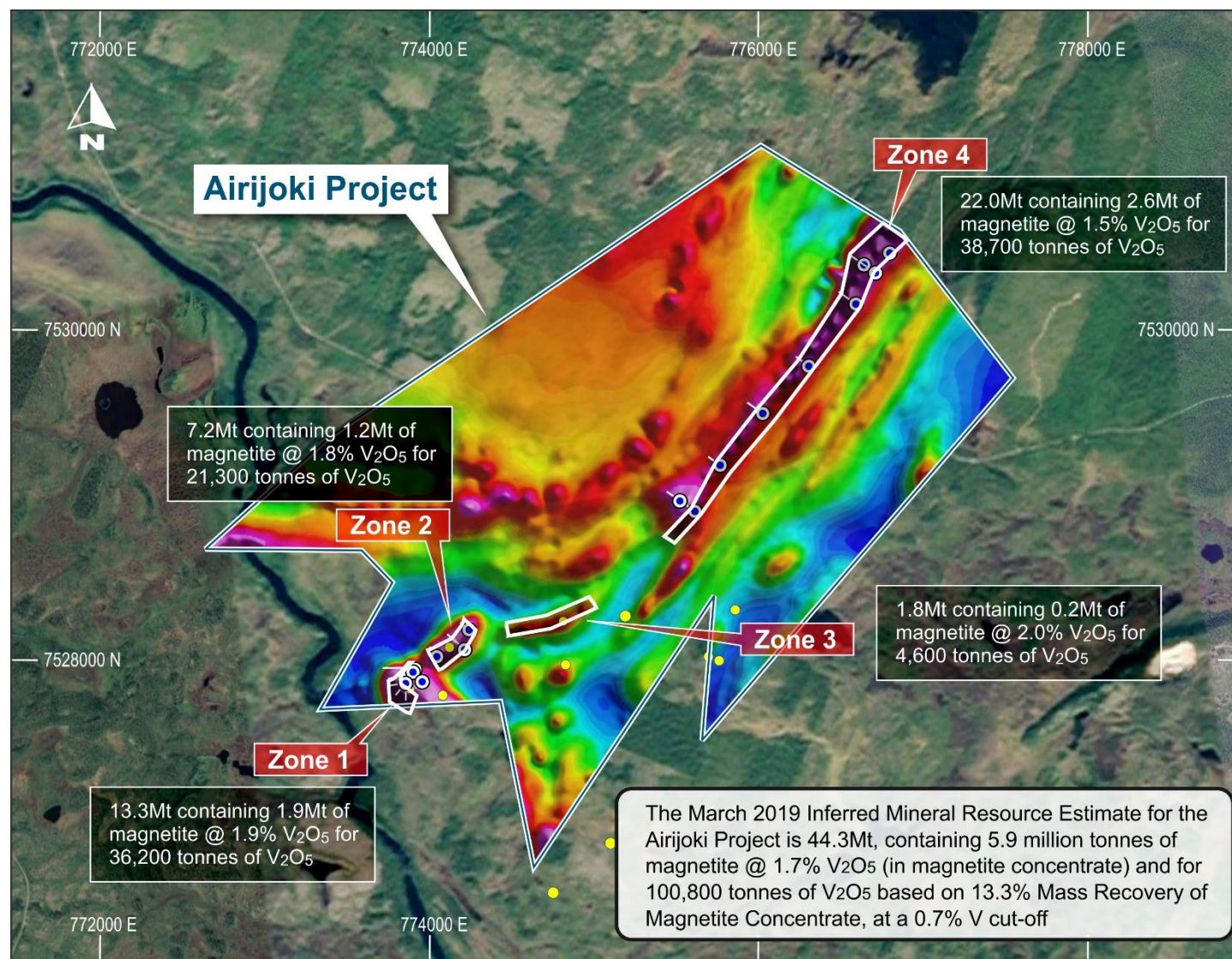
- Four Exploration Licences covering 32km<sup>2</sup>
- 3.5km magnetic anomaly with vanadium mineralisation
- Historical drill holes resampled in August 2018<sup>1</sup>
  - 178.3m @ 1.33% V<sub>2</sub>O<sub>5</sub> (magnetite concentrate)
  - 16m @ 2.05% V<sub>2</sub>O<sub>5</sub> (magnetite concentrate)
- 18 holes for 2876m of drilling testing 2.5 - 3.0km of outcropping vanadium mineralisation (Nov-Dec 2018)
  - 122.0m @ 2.2% V<sub>2</sub>O<sub>5</sub> (magnetite concentrate)
  - 152.2m @ 2.0% V<sub>2</sub>O<sub>5</sub> (magnetite concentrate)
  - 71.0m @ 1.9% V<sub>2</sub>O<sub>5</sub> (magnetite concentrate)<sup>2</sup>
- Inferred Mineral Resource is reported as 44.3 million tonnes, containing 5.9 million tonnes of magnetite @ 1.7% V<sub>2</sub>O<sub>5</sub> (in magnetite concentrate), for 100,800 tonnes of V<sub>2</sub>O<sub>5</sub> based on 13.3% mass recovery of magnetite concentrate
- Scoping Study due for completion in early April 2019

<sup>1</sup>See ASX Announcement 27 August 2018.

<sup>2</sup>See ASX Announcement 22 January 2019.

<sup>3</sup>See ASX Announcement 9 March 2019.

The Company is not aware of any new information or data that materially affects the information contained in those announcements.





# Airijoki Project – Next Steps

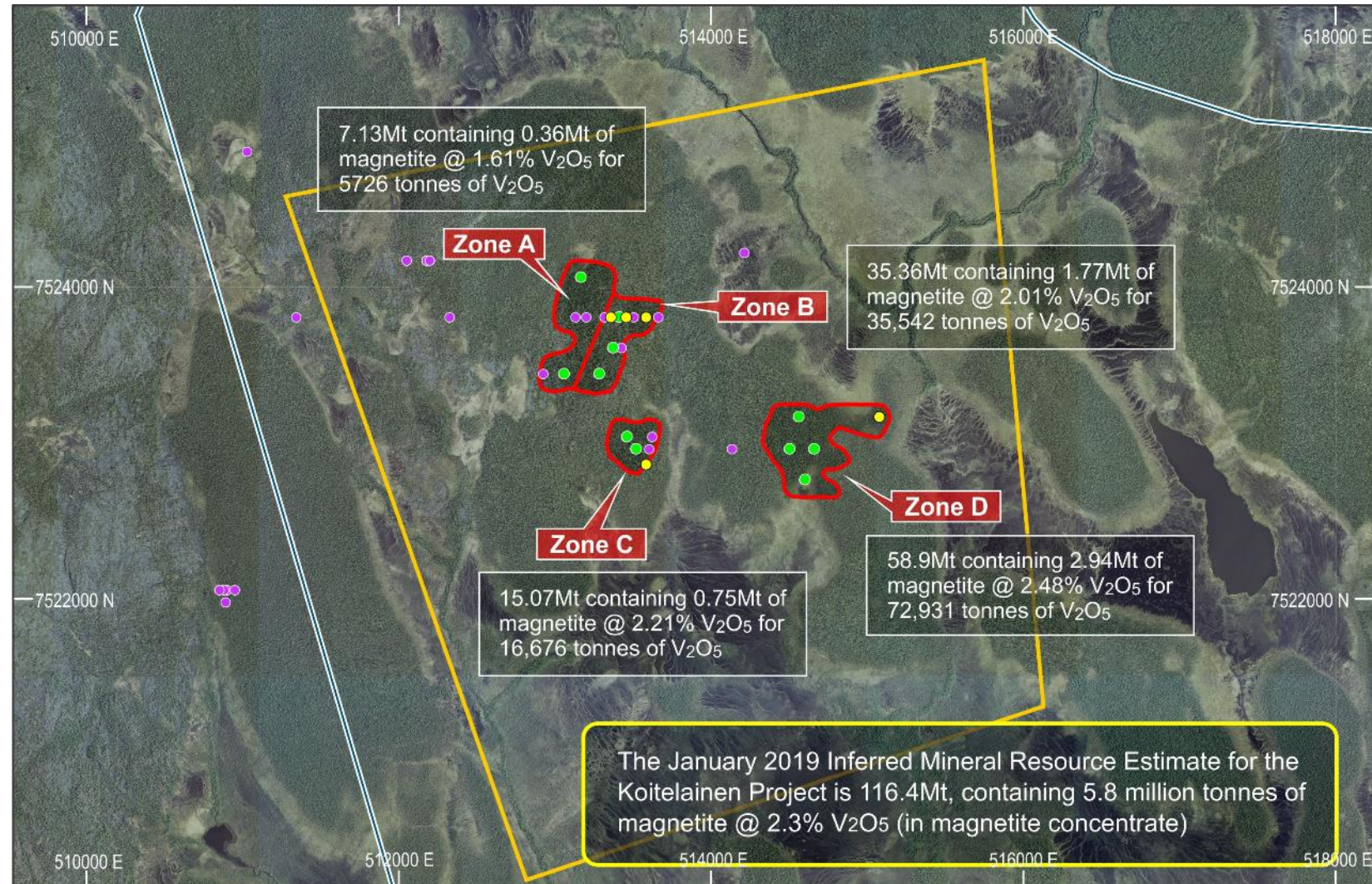
Event	Timing
Final drill results	February 2019 ✓
Initial Inferred Mineral Resource	March 2019 ✓
Scoping Study	April 2019
Commence Feasibility Study (subject to Scoping Study outcome)	July 2019
Infill Drilling to define Indicated Resources	July 2019
Completion of Feasibility Study, Mining Exploitation Concession Decision Point	Mid 2020





# Koitelainen Vosa Prospect – Initial JORC Inferred Resource

- 16 holes drilled in 1970's and 1980's were resampled<sup>1</sup>
- Most holes produced vanadium magnetite concentrates exceeding 2.0% V<sub>2</sub>O<sub>5</sub>
- Magnetite concentrates with exceptional vanadium grades
  - 38.2m @ 2.6% V<sub>2</sub>O<sub>5</sub>
  - 6.2m @ 3.3% V<sub>2</sub>O<sub>5</sub>
  - 9.85m @ 2.9% V<sub>2</sub>O<sub>5</sub>
- 116.4Mt, containing 5.8 million tonnes of magnetite @ 2.3% V<sub>2</sub>O<sub>5</sub> (in magnetite concentrate), for 131,000 tonnes of V<sub>2</sub>O<sub>5</sub> based on 5.0% mass recovery of magnetite concentrate<sup>2</sup>



<sup>1</sup>See ASX Announcements of 9 January, 29 January 2019. <sup>2</sup>See ASX Announcements 6 February 2019. The Company is not aware of any new information or data that materially affects the information contained in those announcements



# Koitelainen Vosa Prospect – Next Steps

Event	Timing
Inferred Resource Statement	February 2019 ✓
Scoping Study	April 2019
Metallurgical Test Work	April 2019
Environmental Base Line Study	July – August 2019
Feasibility Study Decision	October 2019
First Drilling of Feasibility Study	December 2019
Completion of Feasibility Study, Mining Licence Decision Point	End 2020





# Project Development Concept<sup>1</sup>

- **DSO Operation**
  - Mine, crush, milling, magnetic separation
  - Produce high-grade vanadium magnetite concentrate (>2% V<sub>2</sub>O<sub>5</sub>)
  - Sell to Global Markets
- **Advantages**
  - Simplifies Feasibility Study
  - Lowers pre-production capital expenditure
  - Minimises time to production
  - Simplifies government approvals processes
- **Potential Markets for Vanadium Magnetite Concentrate**
  1. Vanadium Smelter planned for Raahe in Finland ([www.ferrovan.com](http://www.ferrovan.com))
  2. Sell into the German Steel Industry
  3. Chinese vanadium magnetite concentrate market
- Pursuit has commenced work investigating all three options

<sup>1</sup>See ASX Announcement 19 November 2018. The Company is not aware of any new information or data that materially affects the information contained in that announcement.



# Key Advantages of Pursuit's Scandinavian Vanadium Projects

	Scandinavian Vanadium Projects	
Access to infrastructure	10-15 km	✓
Power Costs	Approx. 10c/kwh	✓
Proximity to markets	German Markets across the Baltic	✓
Vanadium Smelter access	Smelter planned for Raahe (Finland)	✓
V <sub>2</sub> O <sub>5</sub> Magnetite Grade	>2% V <sub>2</sub> O <sub>5</sub> (Koitelainen Inferred Resource)	✓
Oxide & Transition Zones in Mineral Resource	None – straight into fresh ore	✓
Processing Flow Sheet	Simple (no oxides to process)	✓
Processing	Lower power costs, simple metallurgy	✓
Market Capitalisation	AUD\$4.5M with Scoping Studies imminent	



# Frequently Asked Questions – No 1

- **Why do you quote the grade of the vanadium magnetite concentrate in your ASX Announcements?**
  - In Pursuit's ASX announcements we quote the grade of the vanadium magnetite concentrate produced from the vanadium mineralisation plus we give the in-situ vanadium grades as well
  - The vanadium magnetite concentrate grade and the in-situ grades are both important in determining the economic viability of a magnetite dominant vanadium deposit along with a number of key factors (metallurgy, amount of waste material which needs to be mined per tonne of ore, pre-production CAPEX, access to infrastructure, prevailing and long term prices for vanadium)
  - All the key factors affecting the economics of a magnetite dominant vanadium operation need to be taken into account, not just a focus on the in-situ grade
  - The in-situ grade of material at the Koitelainen and Airijoki projects is mid-range, however, work that has been done to date at both the Koitelainen and Airijoki projects demonstrates that these projects produce exceptionally high grades of vanadium in magnetite concentrate, at 2% V<sub>2</sub>O<sub>5</sub> and above <sup>1</sup>
  - Vanadium magnetite concentrate grades are generally considered to be a superior indicator of project viability for magnetite dominant deposits, as whole rock or in-situ vanadium grades can be misleading if a substantial portion of the vanadium is associated with non-magnetic minerals, as that vanadium will not be recovered. In that case, the in-situ grade will not be an accurate indicator of the viability of the this style of deposit.

<sup>1</sup> See Pursuit Minerals ASX Announcements of 9 January 2019, 22 January 2019, 29 January 2019 and 6 February 2019. The Company is not aware of any new information or data that materially affects the information contained in the above announcements.

# Frequent Asked Questions – No 2

- **What is your relationship like with the Indigenous peoples of Northern Sweden and Finland?**
  - The Sami are the indigenous people of Northern Norway, Sweden, Finland and Russia
  - About 10% of the Sami of Sweden derive their income from reindeer herding. Other traditional Saami businesses are handicraft, hunting and fishing
  - Sami herd their reindeer through relatively well defined areas and their businesses are organised as Reindeer Herding Cooperatives (51 across Sweden), under the Swedish Reindeer Husbandry Act
  - Reindeer Herding Cooperatives have different local issues relevant to the particular tract of land they use to manage their reindeer and therefore mineral explorers interact with the Sami Herding Cooperative relevant to their area of mineral exploration
  - On the Airijoki Project there is currently only one Reindeer Herding Cooperative with which the Company is required to interact with and with whom we are building a productive relationship. Pursuit is very proactive in liaising with the Saami and arranging our work programs in close cooperation with the Sami to minimise impacts on the migration and herding of reindeer
  - The best way to characterise our relationship with the relevant Reindeer Herding Cooperative for Airijoki is to outline the significant amount of work Pursuit was able to complete from August to December 2018
    - Heli-magnetic survey, Rock chip sampling and geological mapping, 18 hole drill program and rehabilitation



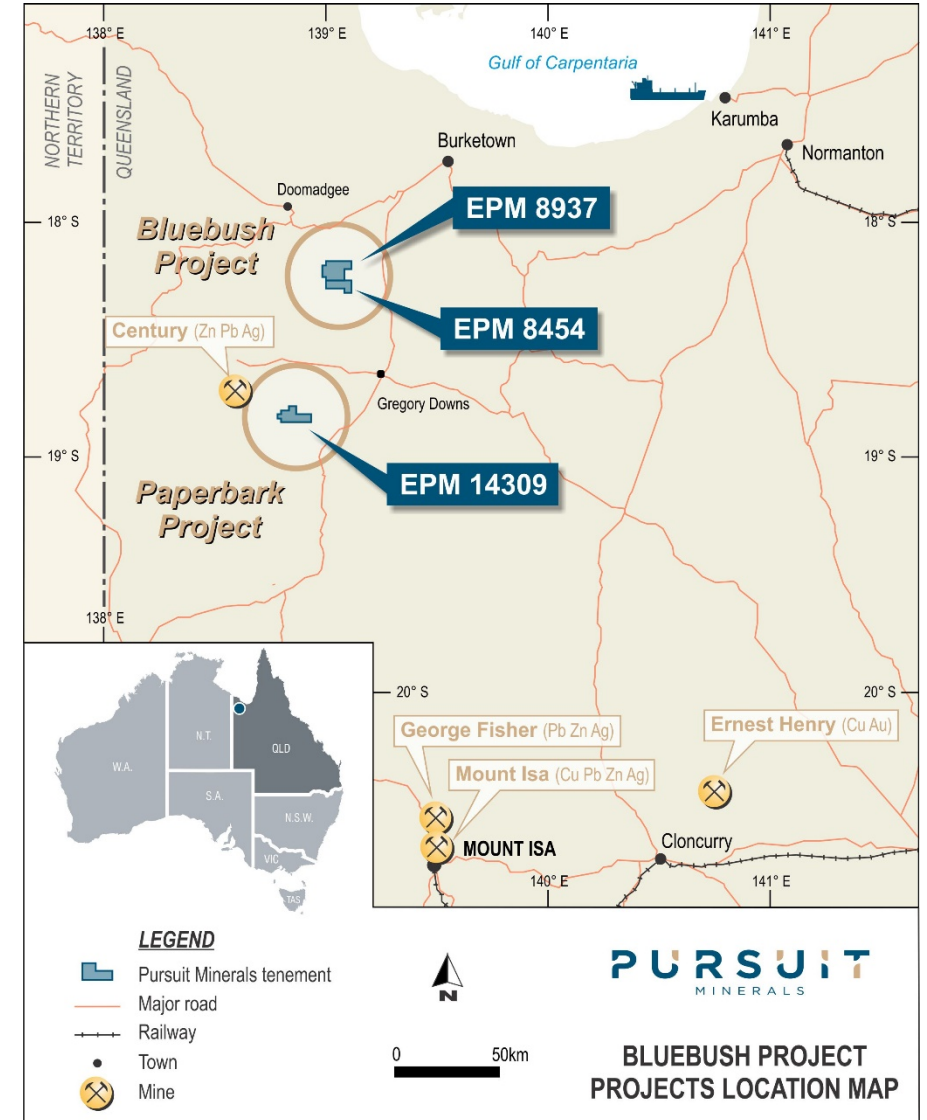
# Frequently Asked Questions – No 3

- **Are mines able to function during the long winters in Scandinavia and how does that affect production?**
  - Yes, the winters get cold in northern Sweden and Finland bringing challenges to effective working, but just as hot weather can bring challenges to effective working in northern Australia in the summer time
  - Mines in northern Sweden and Finland operate 365 days per year
  - The Aitik open pit copper mine (100km to the south of Airijoki) produces up to 45Mt per year of ore and is one of the world's most efficient copper mines<sup>1</sup>
  - LKAB have operated one of the worlds most efficient underground mines at Kiruna (50km to the west of Airijoki) since 1898, mining approximately 27Mt of iron ore magnetite per year
  - Both northern Sweden and Finland have excellent infrastructure in terms of road, rail, power and well developing mining industries which are highly automated and amongst the worlds most efficient

<sup>1</sup><https://www.boliden.com/operations/mines/boliden-aitik#>

# Frequently Asked Questions – No 4

- What is happening on the zinc projects in north Queensland?
  - Pursuit has met all its obligations to its largest shareholder (Teck Australia Pty Ltd) regarding the Bluebush and Paperbark Projects in northern Queensland
  - Pursuit has 100% interest and can deal on the zinc projects as it sees fit
  - Currently Pursuit has no work planned for the 2019 winter field season on the Bluebush and Paperbark projects in north Queensland
  - Pursuit is considering all options for the Bluebush and Paperbark Projects including:
    - Sale
    - Joint Venture
    - Vend into RTO/IPO





# The Next 12 Months

Date	Project	Event	Outcome
April 2019	<b>Airijoki</b>	Complete Scoping Study	Decision point for commencement of Feasibility Study
April 2019	<b>Koitelainen</b>	Complete Scoping Study	Decision point for commencement of Feasibility Study
July 2019	<b>Airijoki</b>	Commence Feasibility Study (Subject to successful Scoping Study Outcome)	Determine overall project economics to either a PFS or BFS level, First Key Decision Point for Project
July – September 2019	<b>Airijoki</b>	Infill drilling to convert JORC Inferred Resource into JORC Indicated and Measured	Key input into Feasibility Study
July 2019	<b>Koitelainen</b>	Commence environmental base line work	Required to be completed over the summer time as an input into a Feasibility Study
October 2019	<b>Koitelainen</b>	Feasibility Study Decision	First Key Decision Point for Project
December 2019	<b>Koitelainen</b>	First Drilling of Feasibility Study (Subject to successful Scoping Study Outcome)	Drilling to update D Zone section of Koitelainen Inferred Mineral Resource
July 2020	<b>Airijoki</b>	Completion of Feasibility Study	Project Economics determined. Decision to proceed with Mineral Exploitation Concession and project funding.
December 2020	<b>Koitelainen</b>	Completion of Feasibility Study	Project Economics determined. Decision to proceed with Mining Lease Application and project funding.

# Competent Person's Statement

Statements contained in this presentation relating to exploration results, historical exploration results, historical estimates of mineralisation and Exploration targets are based on, and fairly represents, information and supporting documentation prepared by Mr. Jeremy Read, who is a member of the Australian Institute of Mining & Metallurgy (AusIMM), Member No 224610. Mr Read is a full-time employee of the Company and has sufficient relevant experience in relation to the mineralisation styles being reported on to qualify as a Competent Person as defined in the *Australian Code for Reporting of Identified Mineral Resources and Ore Reserves (JORC) Code 2012*. Mr Read consents to the use of this information in this announcement in the form and context in which it appears.

Statements contained in this announcement relating to the Koitelainen Inferred Mineral Resource and the Airijoki Inferred Mineral Resource, are based on, and fairly represents, information and supporting documentation prepared by Mr. Chris Grove, who is a member of the Australian Institute of Mining & Metallurgy (AusIMM), Member No 310106. Mr Grove is a full-time employee of the mineral resource consulting company "Measured Group", who were contracted by Pursuit Minerals Limited to prepare an estimate of the Inferred Mineral Resource at Koitelainen and the Inferred Mineral Resource at Airijoki. Mr Grove has sufficient relevant experience in relation to the mineralisation styles being reported on to qualify as a Competent Person as defined in the Australian Code for Reporting of Identified Mineral Resources and Ore Reserves (JORC) Code 2012. Mr Grove consents to the use of this information in this announcement in the form and context in which it appears.



# ASX: PUR

Jeremy Read

Managing Director

Email: [Jeremy@pursuitminerals.com.au](mailto:Jeremy@pursuitminerals.com.au)

Mobile: + 61 447 379 744

**PURSUIT**  
MINERALS

[pursuitminerals.com.au](http://pursuitminerals.com.au)