



# EMPOWERING A SUSTAINABLE FUTURE



CSE: **BULL**  
OTCQB: **DCNNF**  
FRANKFURT: **DCR0**

EUROPEAN  
RAW MATERIALS  
ALLIANCE | **ERMA**



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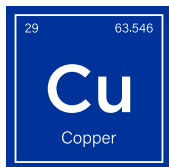
# A Multi-metal Strategy



## Tisova



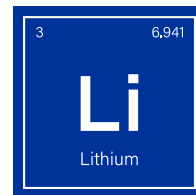
Czechia/Germany



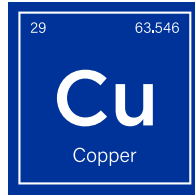
## Minas Gerais



Brazil



# Critical Minerals



- ★ Copper is one of the most ductile metals, and is 100 percent recyclable
- ★ Copper is crucial for renewable energy infrastructure, energy storage systems, and electric vehicles (EVs)
- ★ In renewable energy technologies copper is an indispensable component that ensures the efficient generation, transmission, and storage of clean energy
- ★ The demand for copper is expected to double by 2035, presenting a significant supply challenge that could impact climate goals and the transition to Net-Zero emissions



- ★ Provides thermal stability in batteries
- ★ Normally mined in conjunction with Cu
- ★ Over 70% of world supply from DRC
- ★ Battery demand over 50% of world demand  
Also used in super alloys
- ★ Demand increased by 14% 2023-2024  
  
Supply is driven by issues in DRC and assuming  
no further problems a 5000 tonne surplus is predicted in 2024
- ★ This surplus is currently predicted to move to deficit in 2025-6



- ★ Major ingredient in most rechargeable batteries
- ★ Lightest metal in the world with a high energy density ie stores high amount of energy for low weight
- ★ Found in salty brines or hard rock pegmatites
- ★ Concerns remain about the environmental issues regarding brine production
- ★ Key issue for hard rock pegmatite deposits is metallurgy and amount of impurities
- ★ While supply will increase in 2024 but there is a significant range of costs/tonne from different projects

# “Copper is the New Oil”

Goldman  
Sachs



Key component of all aspects of electrification ie. not just in EVs

- ★ 600 kilotonnes more copper required by 2027

EU & UK have banned all new non-electric cars from 2035

UK currently has 37,851 chargers, will need over 500,000 by 2030

- ★ Not just the copper in the charger but the cabling connecting them

Citigroup: ‘Copper is the energy transition bull trade. The world is cyclically weak right now, and that means the trade is on pause. But copper’s eventual bull run is likely to make oil’s famous 2008 rally look like child’s play’

Goldman Sachs been raising copper supply concerns for over 2 years and report:

- ★ Over 50% of near mining projects are in ‘high risk jurisdictions’
- ★ Predict supply deficit by end 2024
- ★ \$150bn on investment needed by 2030 to supply copper to meet net zero targets

CEO of Trafigura stated:

- ★ ETF investors focused on weak China housing market but EV related copper demand ‘not only cancels the weakness but also adds to consumption growth’

Freeport CEO: ‘It is striking how negative financial markets are about this industry yet the physical market is so tight’

Teck Resources CEO: ‘the macro view is very disconnected from the underlying physical fundamentals of the copper market’

Macquarie had predicted an oversupply in 2024 but with the closure of First Quantum’s Cobre Panama mine and strikes in Peru stated ‘then the market could easily move into deficit in 2024’

Bank of America agreed saying if either Cobre Panama was shut or the strikes continued in Peru in 2024 then ‘losing any of these tonnages might well take us closer to a deficit’

Newmont CEO: ‘we see copper as a critical mineral...it is an absolutely essential metal for energy transition’



Goldmansachs - Copper is the New Oil ([click here](#))



# “Copper is the New Oil”



## Cobalt Global Production

Papua New Guinea 2%

South Africa 2%

Morocco 2%

Madagascar 2%

Canada 2%

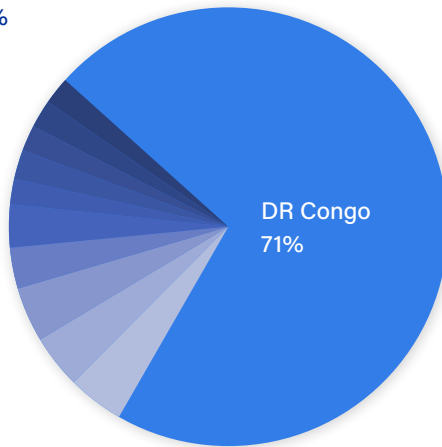
Cuba 3%

Philippines 3%

Other 4%

Australia 4%

Russia 4%



## Copper Exchange Inventories



Source: Bloomberg



Funded by  
the European Union

# Investment Highlights



**Historical Mine:** Production dating back to the 1650s with over **560,000 tonnes** of copper ore historically recovered at a **grade of 0.68% Cu**



"As we move towards our 2024 drilling campaign at Klingenthal/Tisova it is important to update and confirm our drill targets combining the historical data with the 2018 geophysics and the work conducted more recently, including as part of the EIS Project. Not only have we confirmed our initial targets, but the new horizontal section of the geophysical interpretation highlights both the undrilled VMS target and the known horizontal horizons."

- James Newall, CEO of Quest Critical Metals



**District-Scale Vision:** Spanning 159+ square kilometers, the project envelops past-producing mines and geological formations with proven mineralization.



**Reinterpretation to a VMS:** Reinterpretation to a Volcanic Massive Sulphide deposit following a 2019 geophysical study, highlighting potential for significant undiscovered resources.



**European Union Endorsement:** A €7.2m grant from the EU's Horizon Europe program for the innovative Exploration Information Systems Project (EIS), earmarking Tisova as a pivotal site for geo-modelling and critical metal discovery.



**Drill-Ready Targets:** Second Financing (\$3m) to fund Spring 2024 drilling on refined drilling targets identified.



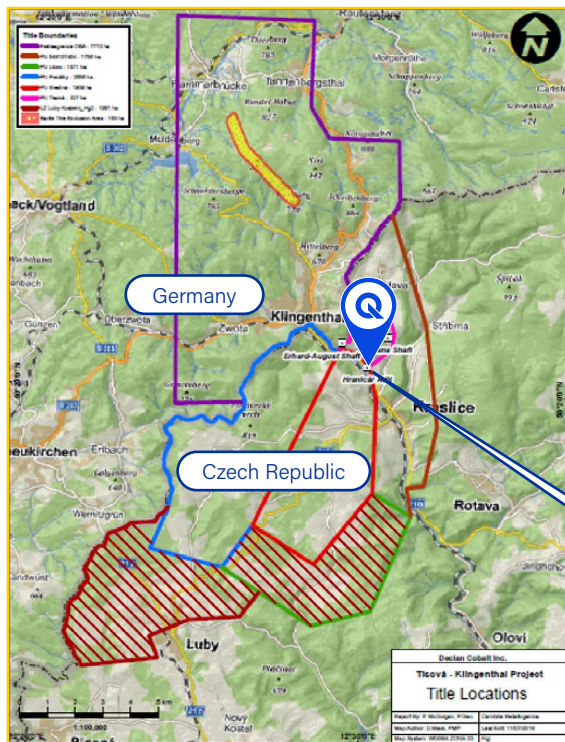
**Strategic Importance:** Positioned to supply critical raw materials essential for Europe's green energy ambitions, backed by top European geologists and EU funding.





# Tisova/Klingenthal

## Cobalt/Copper Project



- ★ Property position in both Germany and Czech Republic
- ★ Historical production on Czech Republic side of Property;
- ★ Property position covers over 140 km<sup>2</sup>
- ★ Includes area of past-producing mines and prospective stratigraphy
- ★ Hatched area on map released as non prospective

Tisova Mine



Funded by  
the European Union



# At the Heart of European Electric Vehicle and Battery Production



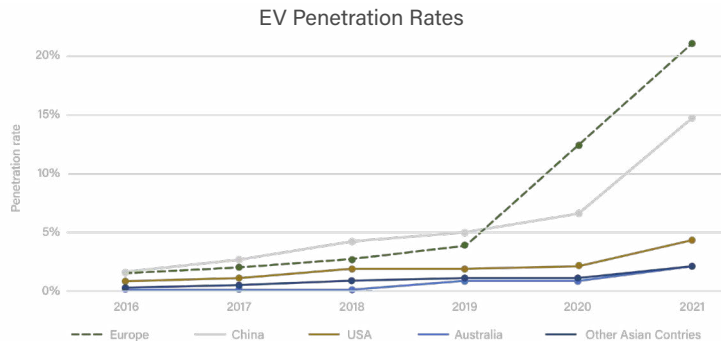
- ★ Tisova/Klingenthal straddles border between Germany and the Czech Republic;
- ★ Located 140 km west of Prague, 160km west of Dresden;
- ★ Erzgebirge (Ore Mountains) span south-eastern Germany and northwestern Czechia
- ★ 800 years of mining from the 12th century and important source of European silver, tin and copper



# EU Leading EV Adoption

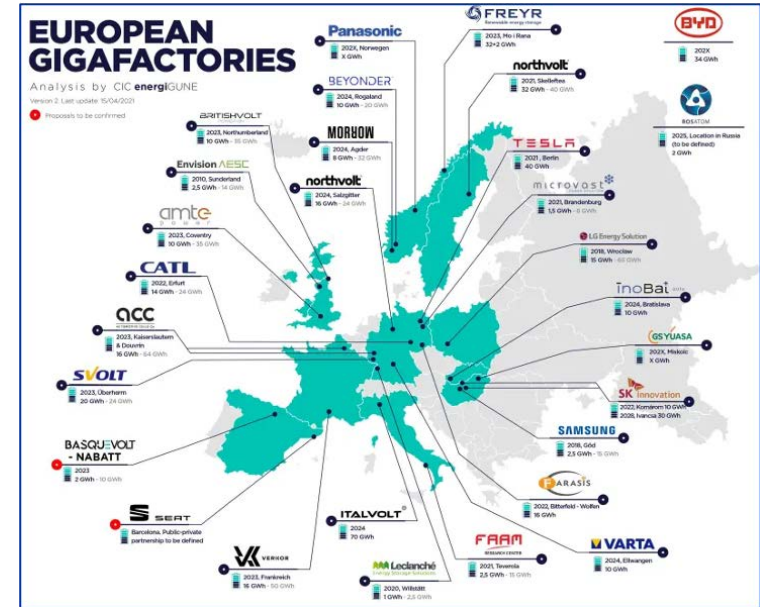


- ★ Europe is leading the world's EV adoption rates, boasting a record-high market share of 21% - 2.3 million EVs sold in 2021
- ★ Europe is also emerging as a competitor to China's battery-monopoly
- ★ More than 180 industrial battery projects being developed across the EU supported by the European Battery Alliance (Co-founded by the European Union)<sup>2</sup>
- ★ Germany poised to become the world's second-biggest producer of batteries by 2025



International Energy Agency: "Global Supply Chains of EV Batteries" - July, 2022

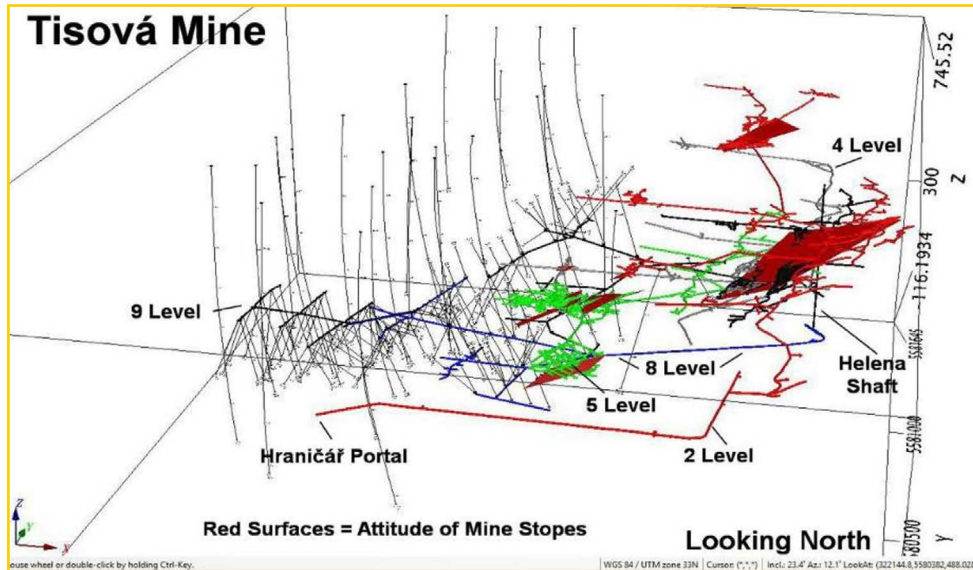
European Battery Alliance: "Joint Statement: High-Level Meeting of the European Battery Alliance" - March, 2022



Total investment along the battery value chain amounted to €127 billion by 2021. Additional investment of some €382 billion is expected to create a self-sufficient battery industry by 2030

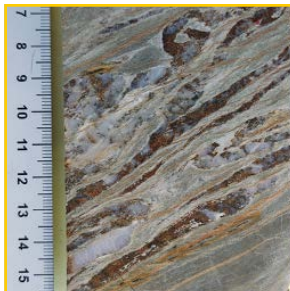
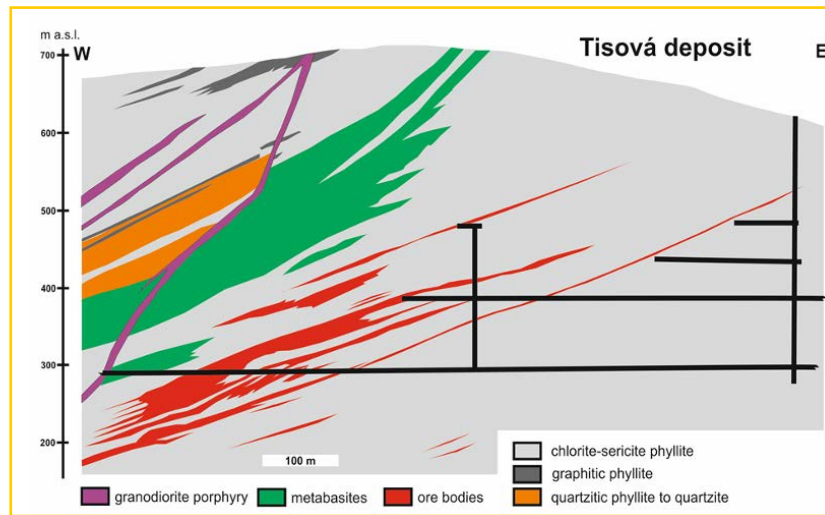
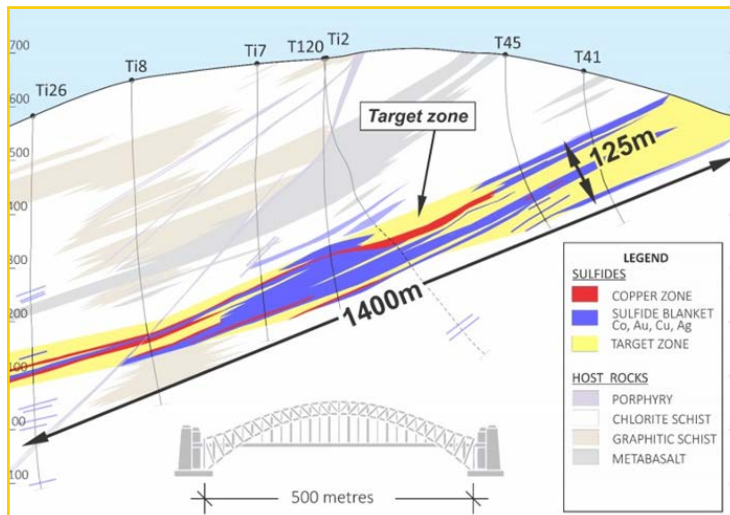


# Tisova, Historic Drilling & Development



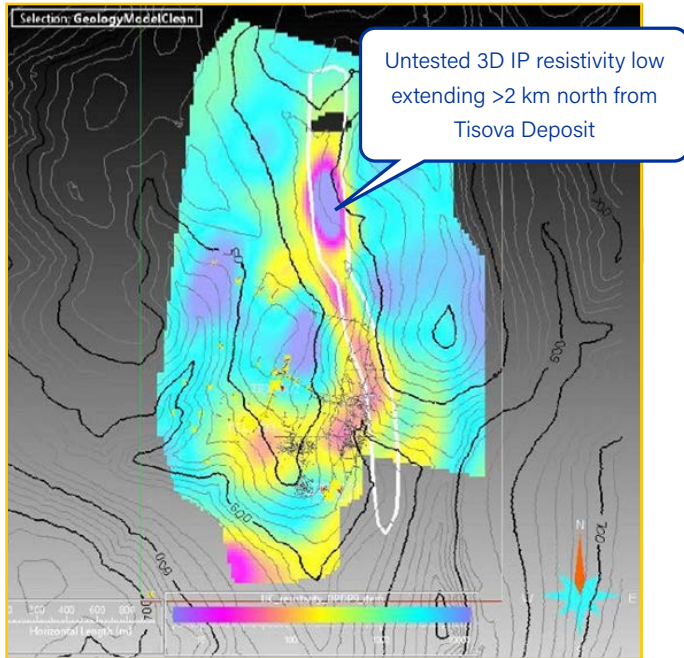
- ★ 72 surface diamond holes (25,985m) and 142 holes of underground drilling (14,299m)
- ★ 2017 - 4 Diamond drill holes (1340 m) completed after minimal compilation of existing historical data
- ★ More than 30 Km of underground development including the 400m Helena Shaft down to 9 level (400m below surface)
- ★ Sulphide zones more than 100m true thickness, grades up to 17.1% Cu, 0.69% Co
- ★ High-grade copper horizons form lenses up to 5m wide within thick sulphide blanket

# Tisova/Klingenthal Deposit – Ore Horizons



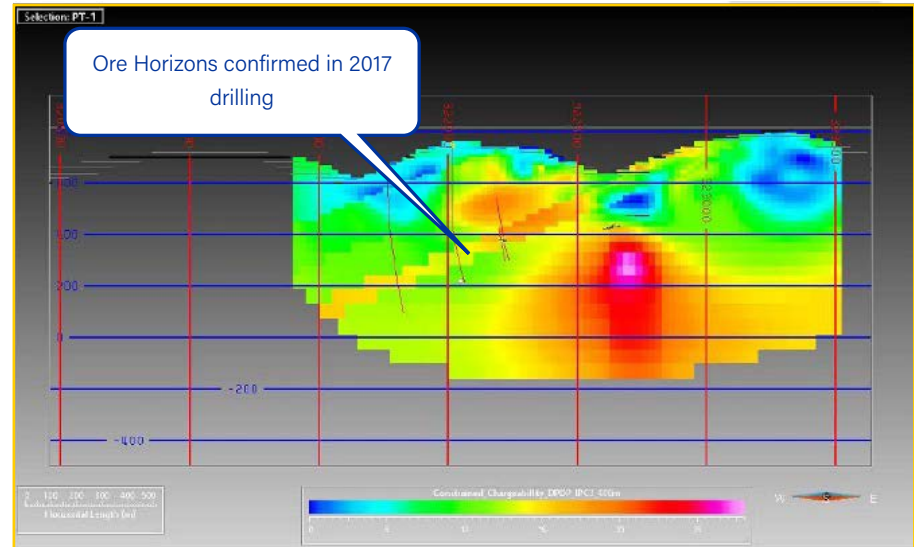


# 2019 Geophysics Survey (Anomalies & Trend)



## North-South resistivity trend:

- ★ Largely untested over 2000 m extent
- ★ Aligns with surficial geology
- ★ Target for future exploration
- ★ Potential surficial expressions



## Anomaly 'A1' noted as strongest anomaly with corresponding Resistivity, Chargeability and Mag Sus values:

- ★ Located roughly 800 m North of historic workings
- ★ Roughly 400 m below surface
- ★ Highest priority target

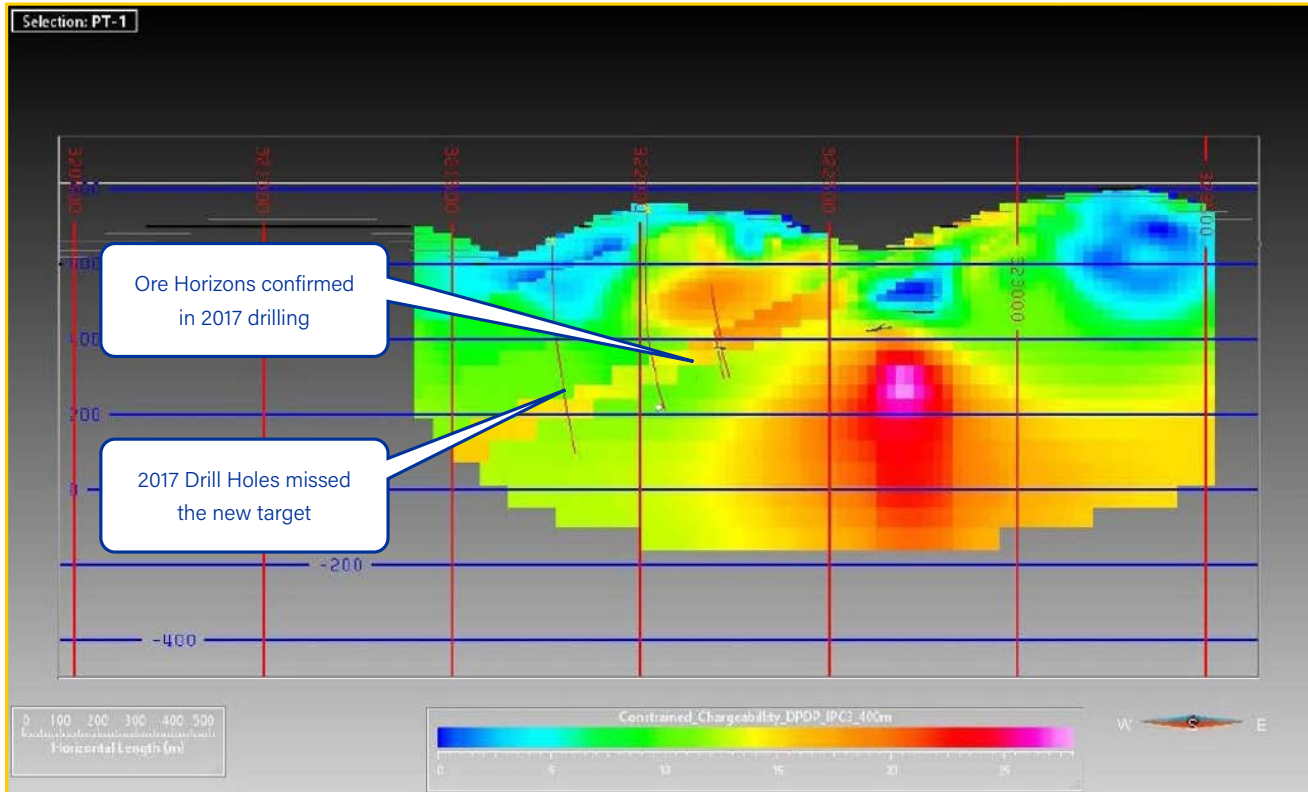


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# 2019 Geophysics Survey (Anomalies & Trend)



- ★ Anomaly A1, low dipping red-orange figure- mineralized horizons



Funded by  
the European Union

# EU Grant Funded EIS Project



- ★ **€7.4m Funded project** dedicated to securing raw material resources key for the delivery of the European green deal, energy transition and digital transition
- ★ EIS will develop new data analysis methods by applying **artificial intelligence, machine learning, and deep learning to mineral prospectivity mapping** together with new geo-models and mineral systems modelling
- ★ **36 months with 17 Partners across 8 countries** (Quest Critical Metals 100% owned Czech subsidiary, Golden Pet, is the partner)  
  
Tisova/Klingenthal **one of only 3 test sites**
- ★ **Partners include 5 Universities** (who specialise in geology), national geological institutes of 4 countries and two renowned private geological consultancies and an Advisory Committee including USGS and the British Geological Survey– Some of the best minds in the sector



**GOLDEN PET SRO**  
A Quest Critical Metals Company





# Detailed work on Tisova/Klingenthal

Already started by EIS project partners

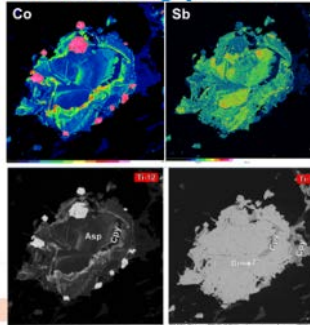
## WP2 – Tisová – mineralogical study

Laboratory work performed on samples from the Tisová test site

- Optical microscopy (transmitted and reflected light) – Jiří Zachariáš
- Scanning electron microscopy and microanalyses (ED, WD) – Jiří Zachariáš, Martin Racek – almost 1000 analyses performed till now

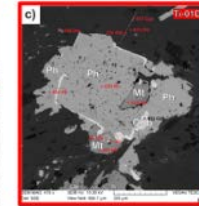


## Co-bearing phases



**Cobaltite (CoAsS)**

**Arsenopyrite (FeAsS, up to 16 wt.% Co)**



Pyrrhotite pseudomorph (?) after pyrite rimmed by cobaltite

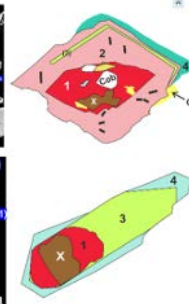
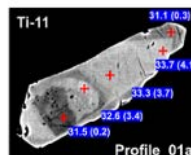
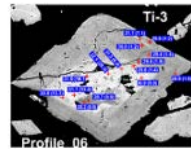
## Complex evolution of arsenopyrite

### Up to 7 generations of arsenopyrite

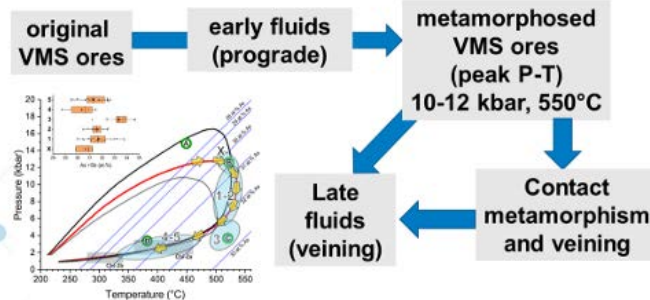
- Ore-related (5)
- Ore-unrelated (2)

### Admixtures:

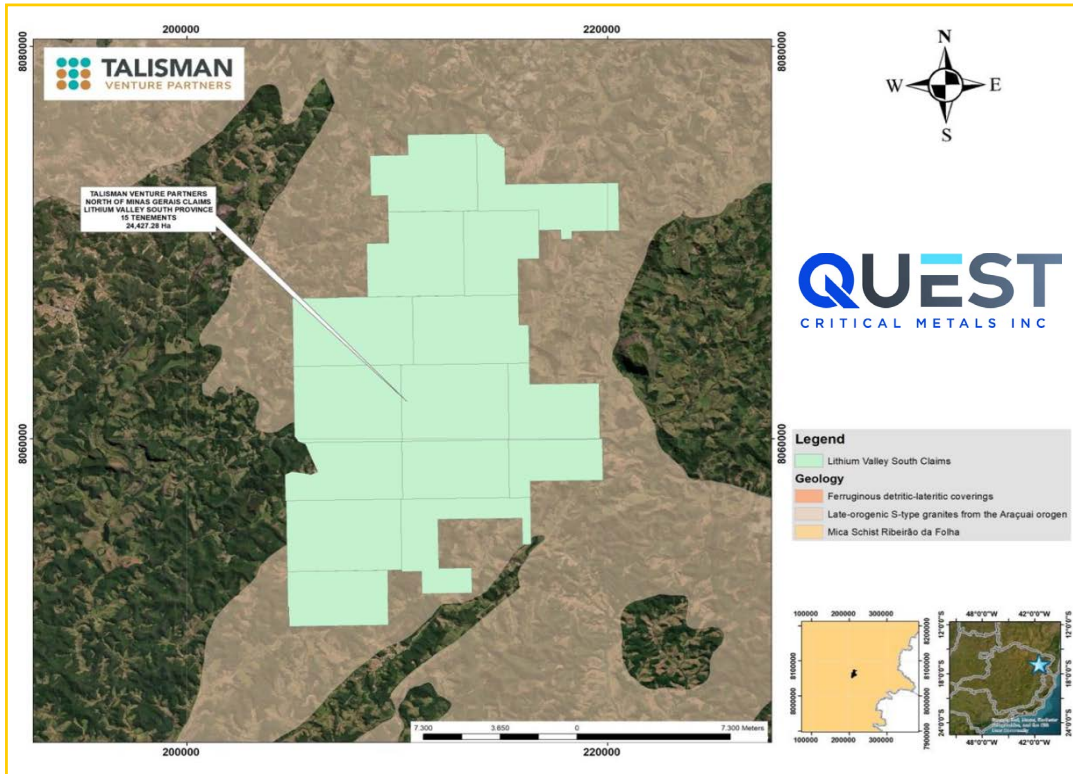
- Co (up to 15 wt.%)
- Sb (up to 6 wt.%)
- Ni (up to 4 wt.%)
- Bi (800 ppm)
- Au (< D.L., 265 ppm)



## Summary of ore evolution



# Minas Gerais (Brazil) Exploration Licences



- ★ 24,427.28 Hectares
- ★ Minas Gerais Province
- ★ Geological mapping shows slivers and domains of the lithium rich Concordia do Mucuri Formation
- ★ 1% NSR

# Minas Gerais State – Lithium Valley



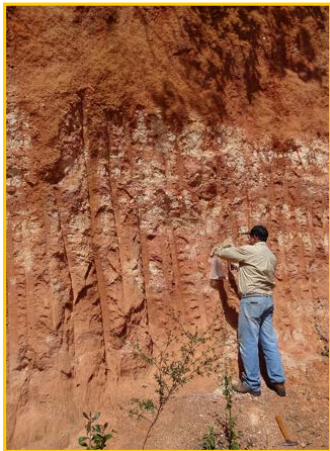
- ★ Area known as 'Lithium Valley' or the East Brazil Lithium Belt
- ★ Hosts 3x highly profitable operating hard rock lithium mines (due to excellent metallurgy and low impurities)
- ★ Including Sigma Lithium's Groto do Cirilo mine
  - ★ After tax IRR of 1,282%
  - ★ Operating at \$577/tonne FOB
- ★ Multiple exploration successes eg Atlas Lithium
  - ★ Atlas reported future production costs at <\$600/tonne FOB
  - ★ Australian hard rock lithium operate at >\$1,000/tonne FOB
- ★ A Strongly supportive State government who launched 'Lithium Valley Brazil Initiative' in 2023 focused on attracting foreign companies to invest in region





# Next Steps

- ★ Exploration program to commence Q1 2024 to build on initial report and to identify drill targets
- ★ Currently finalising contract with local specialist exploration company
- ★ Year-round exploration due to climate



Outcrop within the thick slivers of the Concórdia do Mucuri Banded biotite paragneisses showing mobilization of very coarse-grained, pegmatitic, quartz-feldspathic melts.



Typical outcrops of the banded biotite paragneisses of the Concórdia do Mucuri Formation.

# Capital Structure & Financing



Ticker	CSE: BULL	TCQB: DCNNF	FRANKFURT: DCR0
Recent Share Price:	\$0.35		
Market Cap:	\$10.3M		
Common Shares Issued	29,584,345		
Warrants:	No Warrants at Present		
Options:	863,500 @\$1.79		
Fully Diluted Shares Outstanding:	30,447,845		

# Management & Directors



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## JAMES (JAMIE) NEWALL

President, CEO & Director

Mr. Newall is an experienced senior executive director, having served as a director or executive officer of numerous publicly listed natural resources companies. He was Investment Director of Intrepid Financial, an incubator of natural resource companies for eight years. He was also Voluntary CEO of Oracle Cancer Trust, the UK's largest head and neck cancer research charity for four years. Mr. Newall is a graduate of Cambridge University and holds a Masters Degree in Law.

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## ROBERT MEISTER

Chairman & Director

Robert Meister is a seasoned Capital Markets Executive with a proven track record in driving growth through strategic leadership and transformative M&A activities. With extensive experience as CEO, COO, Secretary, and Director in both private and publicly traded firms on the TSX, CSE, and NEO exchanges, Robert excels in developing and implementing equity capital-raising initiatives, including New Issues and Initial Public Offerings (IPOs). He brings decades worth of diverse management experience, showcasing a strong ability to cultivate relationships with senior-level management and institutional investors.

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## GARRY CLARK

Director

Mr. Clark is a geologist (P Geo) with over 30 years of mineral exploration experience and has held various geological positions with a number of public mining companies. Mr. Clark has extensive experience in managing large scale exploration and development programs internationally including Asia and North America, and has worked extensively in the Hemlo and Wawa districts. He is the Executive Director of the Ontario Prospectors Association (OPA) and currently serves on the Minister of Mines Mining Act Advisory Committee. Most recently, Mr. Clark was integral to the successful sale of US Cobalt to First Cobalt Corporation, creating a post-transaction cobalt company valued at almost \$400 million.

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## BRIAN KIRWIN

Director

Mr. Kirwin, BA Earth Sciences, Dartmouth College, MSc Mineral Exploration, Queen's University, is an accomplished mining executive and geoscientist with over 35 years' of experience with both senior and junior mining companies. Mr. Kirwin began his career in mining working in exploration and corporate development on projects from grass roots to mines worldwide for companies such as Placer Dome, Freeport McMoRan and Cominco. He has served in leadership positions in various capacities from CEO and founder of American Bonanza Gold Corp. and Nevada Copper to VP Exploration for US Cobalt before its ultimate sale to First Cobalt. With global experience evaluating and developing deposits, mines and risk worldwide, Mr. Kirwin has led teams to several discoveries.

# Management & Directors



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## KELSEY CHIN

CFO & Corporate Secretary

Ms. Chin, a Chartered Professional Accountant, has over 15 years of experience in audit, finance and accounting within the mining, exploration and technology industries. She has served as director and executive officer for several publicly traded companies where she was responsible for all aspects of financial services, financial reporting, corporate governance, and has led numerous financings, mergers and acquisitions to successful completion.

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## PERCY CLARK

Director

Percy Clark holds a BSc in Geology from Acadia University, Nova Scotia, and is a registered Professional Geologist with the Association of Professional Geoscientists of Ontario. He began his career with IAMGOLD Corp. at their Cote Gold project in Ontario, contributing to exploration and feasibility studies. Transitioning to Clark Exploration and Consulting Inc. in Thunder Bay in 2018, Percy serves as a Project Geologist, specializing in grassroots exploration of precious metals and critical minerals across Ontario. Additionally, Percy is actively involved in advocating for the mining industry, serving on the boards of the Ontario Prospectors Association and the Northwestern Ontario Prospectors Association.

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## WAYNE TISDALE

Advisor

Wayne Tisdale has 40 years of experience in investing, financing and consulting to private and public companies in the areas of mining, oil and gas and agriculture. He runs his own merchant banking company. Over his career, Mr Tisdale has raised over \$2bn of both equity and debt financing and has been instrumental in founding a range of highly successful companies.







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