



# DEVELOPING THE COUFLENS PROJECT IN FRANCE

---

FEBRUARY 2018





# A PROVEN HIGH GRADE MINE WITH SIGNIFICANT EXPLORATION UPSIDE



Developing the Couflens tungsten-copper-gold project in southern France (80% interest)



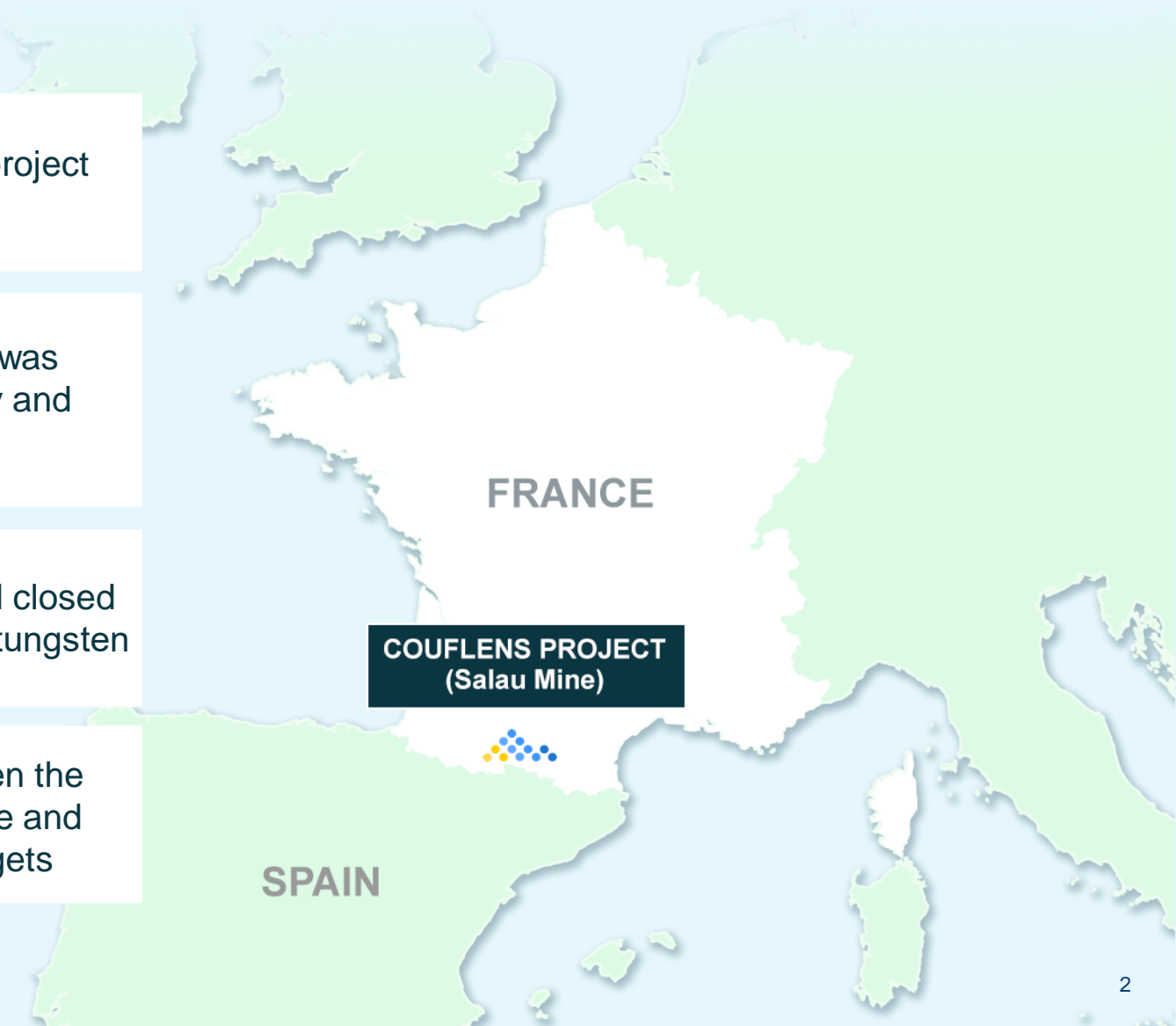
Project includes the historical Salau Mine which was one of the highest grade tungsten mines globally and remains open at depth



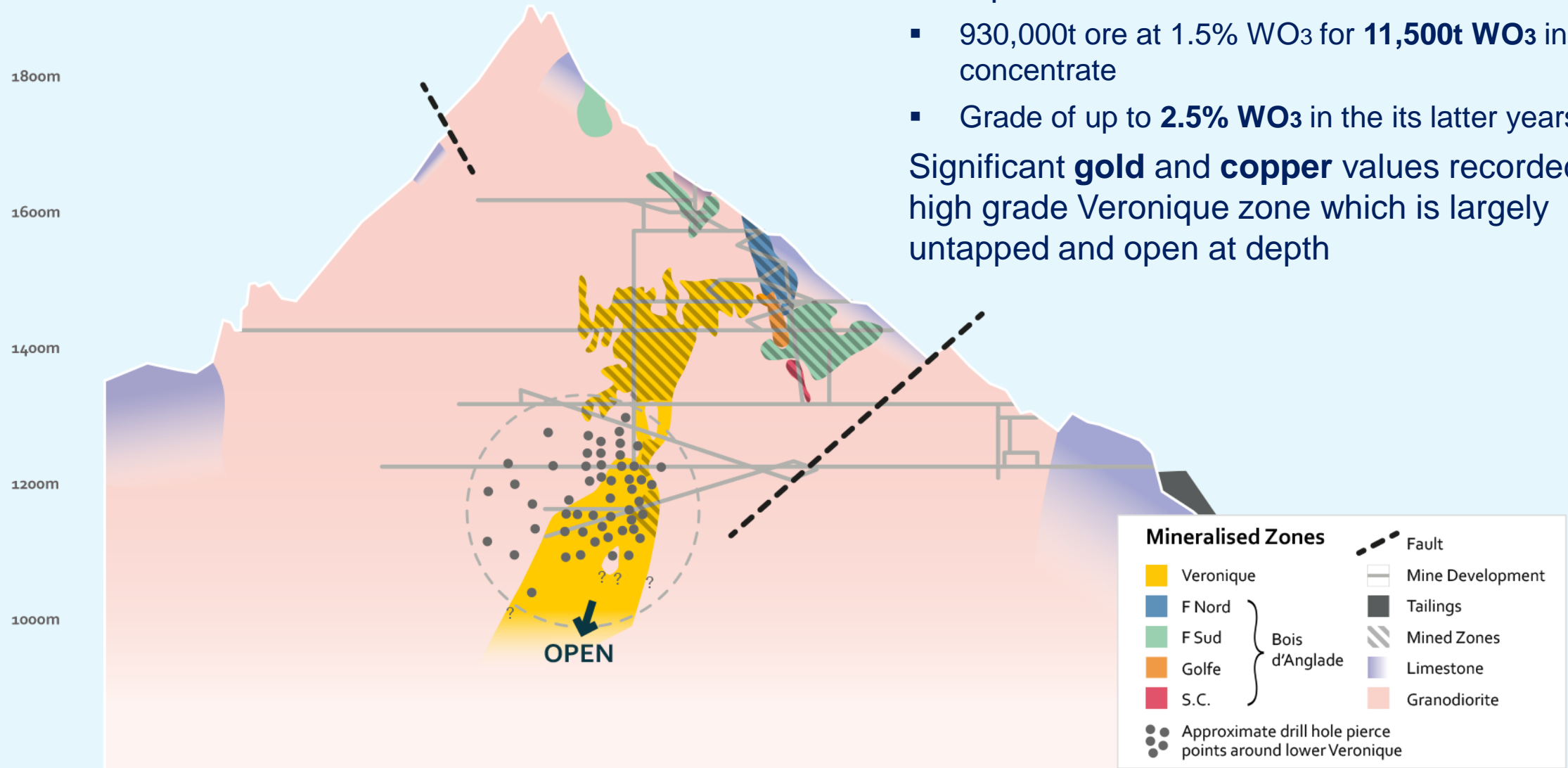
Salau Mine operated for more than 15 years and closed in the mid-1980's following Chinese dumping of tungsten



Apollo Minerals will assess the potential to reopen the mine and aggressively explore significant in-mine and regional tungsten-copper-gold and gold only targets



# THE HIGH GRADE SALAU MINE

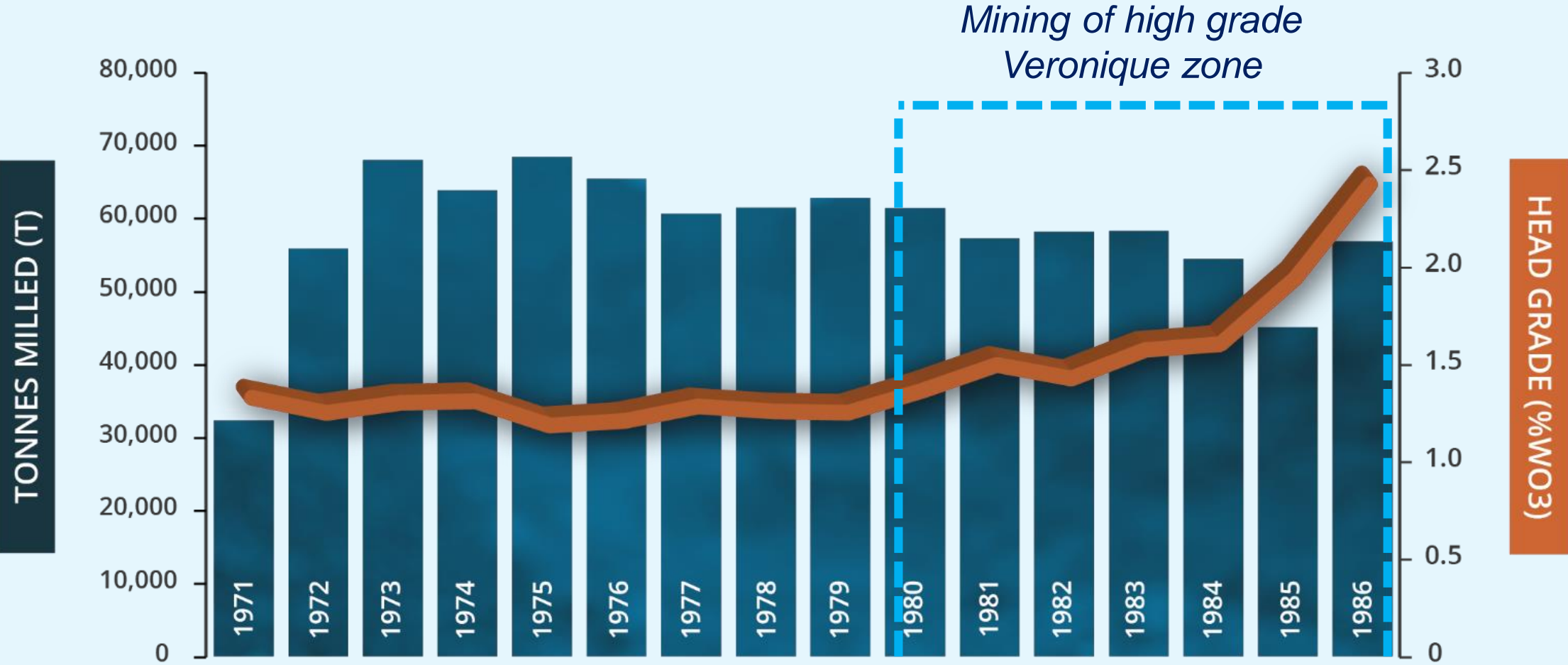


Mine produced:

- 930,000t ore at 1.5% WO<sub>3</sub> for **11,500t WO<sub>3</sub>** in concentrate
- Grade of up to **2.5% WO<sub>3</sub>** in the its latter years

Significant **gold** and **copper** values recorded in high grade Veronique zone which is largely untapped and open at depth

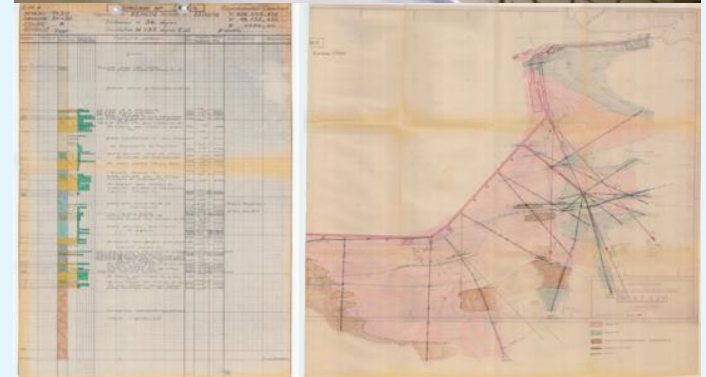
# HISTORICAL PRODUCTION AT VERY HIGH GRADES



# SIGNIFICANT TIME AND COST SAVINGS



- ✓ Extensive database of historical information available:
  - ✓ All assays data and logs from over 650 historical drill holes
  - ✓ Production records and principal mining and processing methods
  - ✓ Historical processing flow sheet to produce tungsten concentrate
  - ✓ Mine level plans and geological mapping for 24km of underground development
- ✓ Excellent ground conditions
- ✓ Strong regional infrastructure
- ✓ Proven mining region

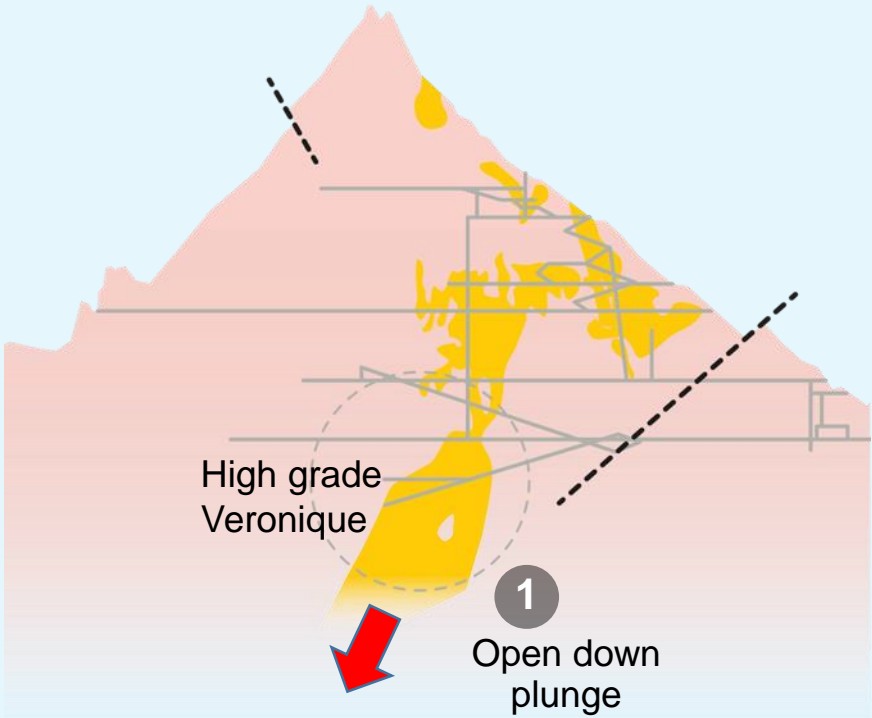


# HIGH IMPACT EXPLORATION POTENTIAL



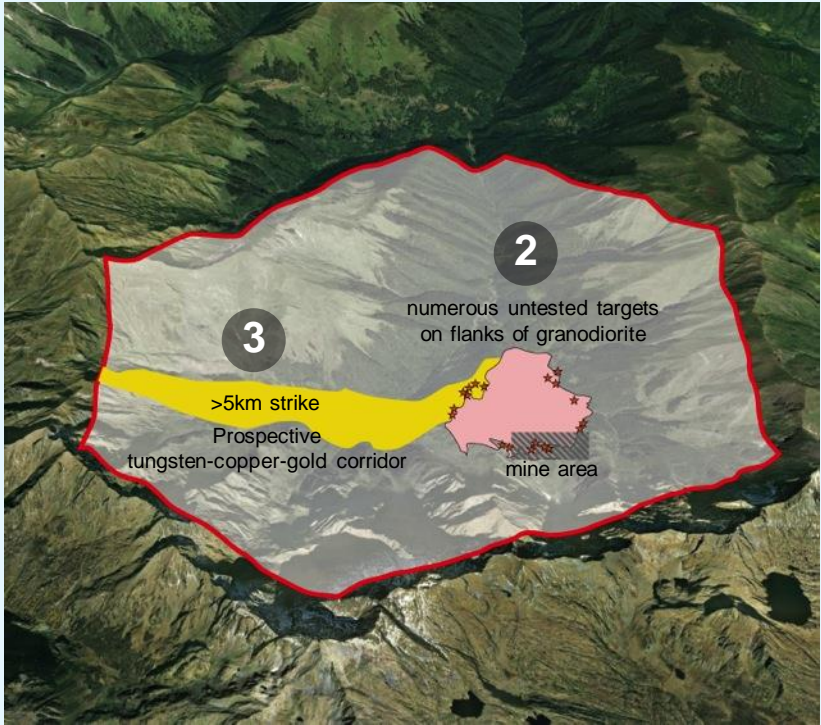
## Salau Mine

High grade Veronique zone open at depth.  
High grade gold values recorded<sup>1</sup>



## Near Mine & Regional Targets

~75% of granodiorite contact untested.  
> 5km strike of prospective corridor for tungsten-copper-gold and gold only

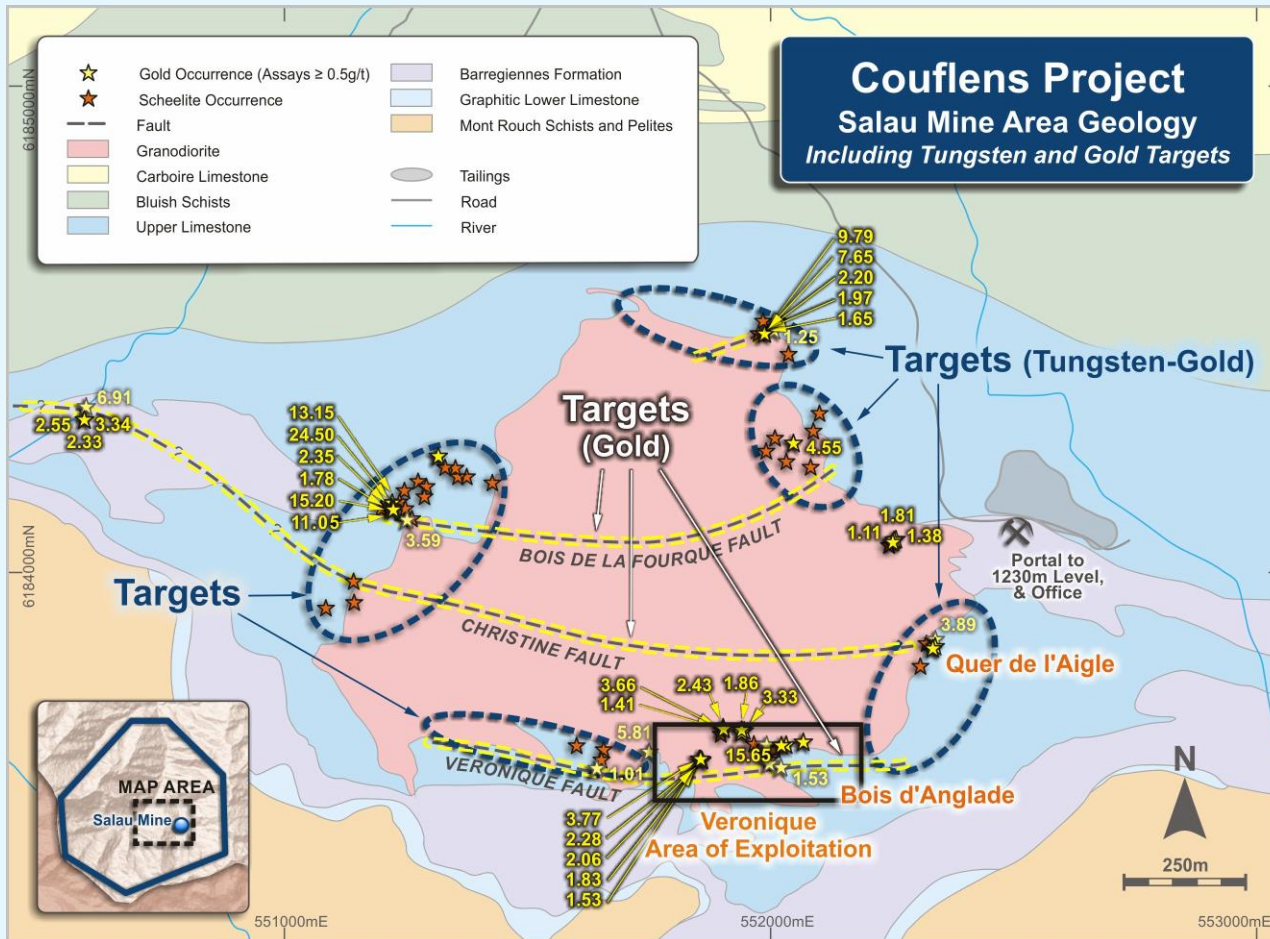







# GOLD POTENTIAL ONLY RECENTLY INTERPRETED



*High grade gold occurrences (grades up to **24.5 g/t**) identified during regional field campaigns*



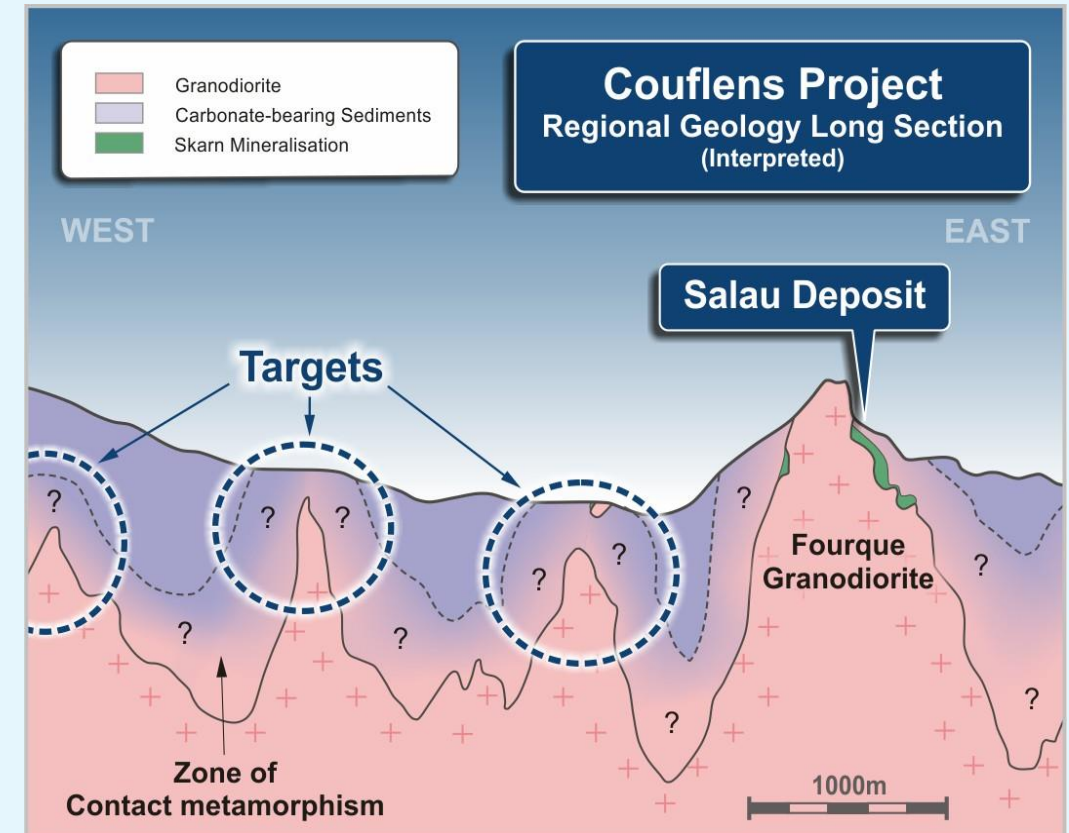
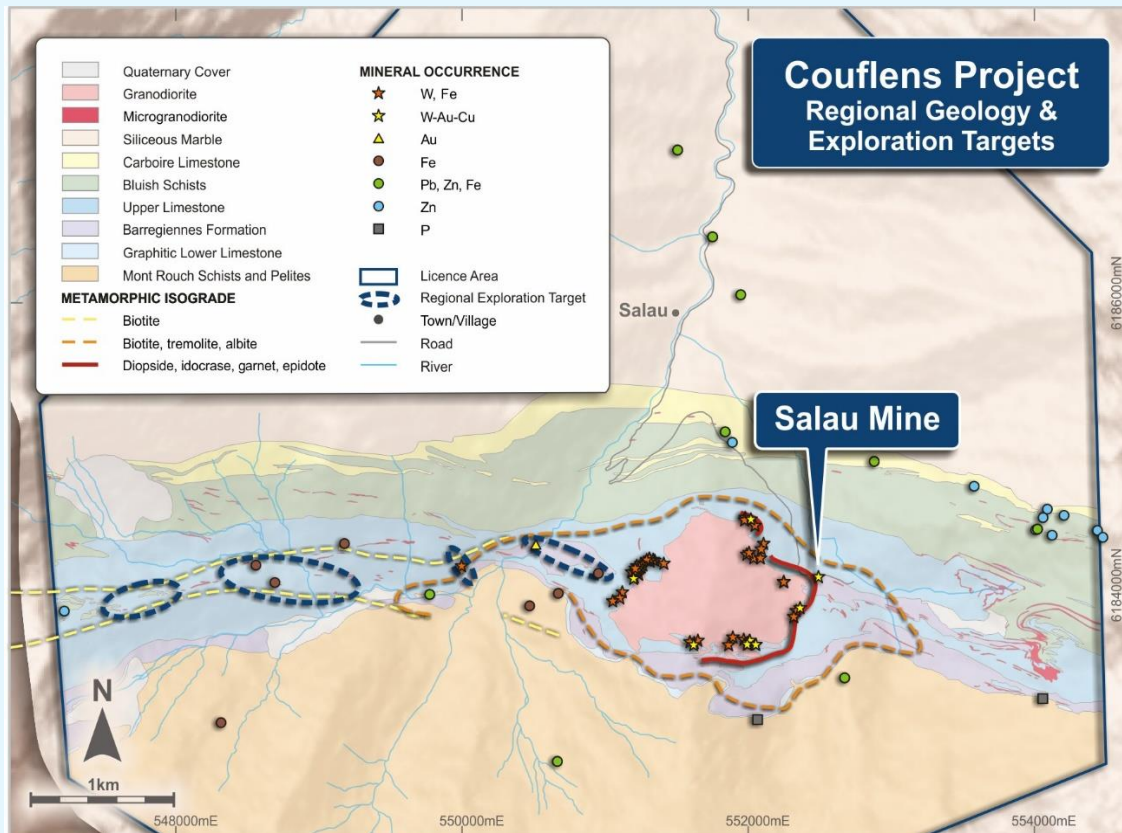
- Gold only discovered very late in the Salau mine life (and never recovered in milling)
- High grade gold observed in lower section of Salau mine<sup>1</sup> and numerous surface occurrences
- Gold is associated with hydrothermal fluids focussed by “Veronique” type faults
- These fault structures could provide the fluid pathways and focusing mechanisms required for development of shear hosted gold deposits
- Three main east-west trending fault structures at Salau are priority gold targets:

 **Veronique**  
 **Christine**  
 **Bois de la Fourque**

# MULTIPLE TARGETS ALONG HIGHLY PROSPECTIVE 5KM CORRIDOR



- Numerous mineral occurrences and evidence of contact metamorphism along a 5km strike length
- Tungsten-copper-gold and gold only targets identified from recent field campaigns and historical data
- High grade gold occurrence (6.91g/t) not associated with tungsten





# WELL FUNDED FOR UPCOMING WORK STREAMS



*Focussed on two parallel work programs: assessing the potential to reactivate the Salau mine; and conducting exploration programs for gold and tungsten near the mine and within the project area*

## Salau Mine

- ✓ Review and digitise historical mine data
- ✓ Generate 3D model
- Mine area and old tailings risk assessments
- Access existing mine and stoping areas
- Map & sample tungsten-copper-gold mineralisation exposed in mined areas
- UG drilling to confirm known zones of mineralisation and test for extensions
- Resource estimation and reporting in accordance with JORC Code

## Near Mine & Regional Targets

- ✓ Review and digitise regional exploration data
- ✓ Identify high priority targets for further exploration
- ✓ Generate new exploration targets
- ✓ Detailed geochemistry, geophysics and surface sampling programs
- Evaluate gold potential
- Drill testing of exploration targets

# PROVEN MANAGEMENT TEAM WITH STRONG GOLD EXPERIENCE



## ROBERT BEHETS

Geologist with over 25 years mining industry experience; Strong combination of technical, commercial and managerial skills. Founding MD of Mantra Resources, ex Acting MD/NED of Papillon Resources and WMC executive.

## HUGO SCHUMANN

Commercial manager and mining financier with over a decade of experience in the development of mining and energy projects globally across a range of commodities, most recently as CCO of Berkeley Energia in Spain. He holds an MBA from INSEAD, is a CFA Charterholder.

## MICHEL BONNEMAISON

French geologist with extensive experience in Europe, Africa and South America. 35 years working history with the French geological survey (BRGM) including Deputy Head of Minerals Resources Division. Widely recognised as one of the preeminent authorities on gold deposits in France.

## CLINT MCGHIE

Commenced his career at a large international Chartered Accounting firm before moving to commerce. Now works in the corporate office of a number of public listed companies focussed on the resources sector in the role of chief financial officer and company secretary.

## BOARD OF DIRECTORS

Ian Middlemas	Non-Executive Chairman
Robert Behets	Non Executive Director
Michel Bonnemaïson	Non Executive Director
Mark Pearce	Non Executive Director
Ajay Kejriwal	Non Executive Director

## CAPITAL STRUCTURE

Shares on Issue	139.9m
Unlisted Options & Vendor Rights	75.1m
Market Cap (at A\$0.21)	A\$29.4m
Cash Position (at 31 Dec 17)	A\$2.75m



# INVESTMENT SUMMARY



## One of world's highest grade tungsten deposits

*2.0 to 2.5% WO<sub>3</sub>  
in the mine's latter years*

## Proven mine

930kt ore @ 1.5%  
11,500t WO<sub>3</sub> in conc.

*Mine operated for 16 years  
Extensive database*

## Gold & copper values provide potential upside

*High grade gold recorded in Veronique zone & recent field campaigns (up to 24.5 g/t)*

## Significant exploration potential

*Deposit open down plunge  
Numerous regional targets*

## Proven Board & management

*Strong track record  
In-country experience & specific expertise*

## Strong pipeline of catalysts & news flow

*Well funded for aggressive work programs*





# ADDITIONAL INFORMATION

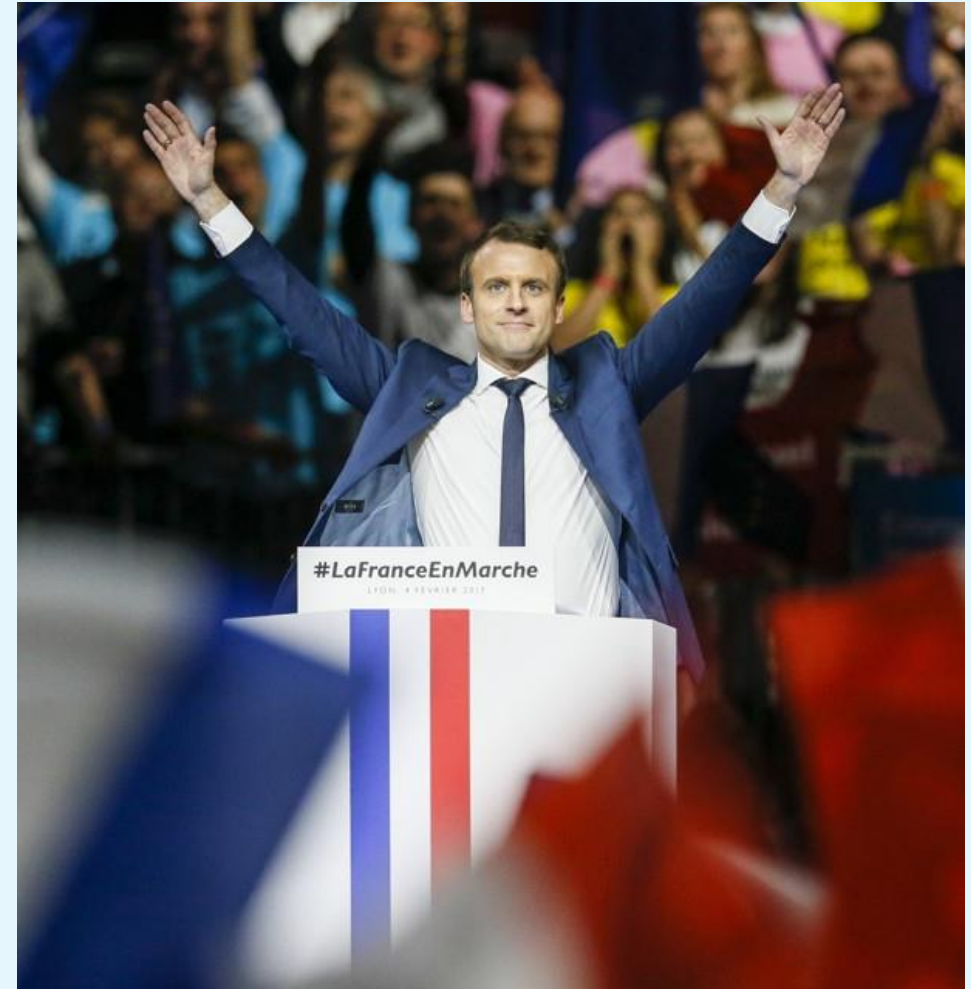


# BRINGING MINING BACK TO FRANCE



*“There is a wealth under French territory, especially gold in metropolitan France...we would make a profound mistake by not exploiting it.” – Emmanuel Macron*

- ✓ First world jurisdiction
- ✓ Strong government support for mining sector reactivation
- ✓ Excellent infrastructure
- ✓ Skilled local workforce
- ✓ Excellent geological prospectivity
- ✓ Limited application of modern exploration technologies



# WORLD'S LARGEST OPEN PIT TALC OPERATION WITHIN 50KM OF COULFENS



- Trimouns, the world's largest talc operation, is located less than 50km from Couflens
- Formerly owned by Rio Tinto and now owned by Imerys, a world leader in the industrial minerals sector
- Open pit operation that has been in production for over 100 years, currently producing 400,000 tonnes of talc per annum
- Key source of local employment, generating 310 permanent jobs and 110 seasonal jobs
- Proven model for operating a successful resources project in France and more specifically in the Ariège region





# TUNGSTEN: A STRATEGIC METAL



## AN ESSENTIAL INDUSTRIAL METAL WITH OUTSTANDING PROPERTIES:

- ❖ Highest tensile strength and melting point (3,400°C) of all metals
- ❖ Very high density and second strongest material after diamond
- ❖ A strategic commodity: critical for many industries including drilling, automotive, military and aerospace

## KEY APPLICATIONS:

- ❖ Cemented carbides used in drilling tools and wear-resistant parts (53%)
- ❖ Alloy steels and alloys used primarily in tools (30%)
- ❖ Fabricated tungsten products e.g. electrical & electronic contacts (13%)
- ❖ Chemical applications and products (4%)

## TUNGSTEN MARKET & PRICING:

- ❖ Tungsten concentrate (containing  $WO_3$ ) is refined by processors into Ammonium Para Tungstate (APT)
- ❖ APT prices quoted in metric tonne units or mtu of  $WO_3$  (1 mtu = 10kg)
- ❖ APT price at 1 Feb 2018 US\$320 per mtu (or US\$32,000 per tonne)
- ❖ Total market estimated at 80,000t primary tungsten metal (W), equivalent to ~100,000t tungsten trioxide ( $WO_3$ )

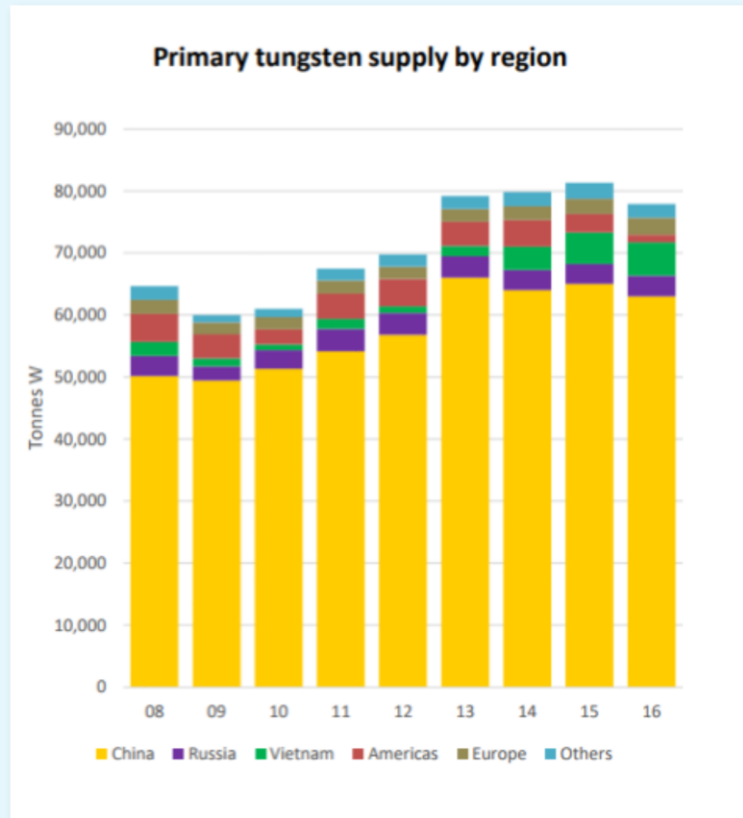


# SECURITY OF SUPPLY A MAJOR CONCERN FOR EUROPEAN INDUSTRY



## CHINA DOMINATES THE TUNGSTEN MARKET

- China accounts for >80% of global tungsten mine production
- Recently confirmed it had become a net importer of tungsten from global markets



## EUROPEAN END USERS ARE SEEKING SECURITY OF SUPPLY OUTSIDE CHINA

- Tungsten is a highly strategic metal used in military, aerospace and other heavy industry
- Rated a top critical raw material for Europe by EU
- These dynamics point to potential favourable terms for long term supply contracts



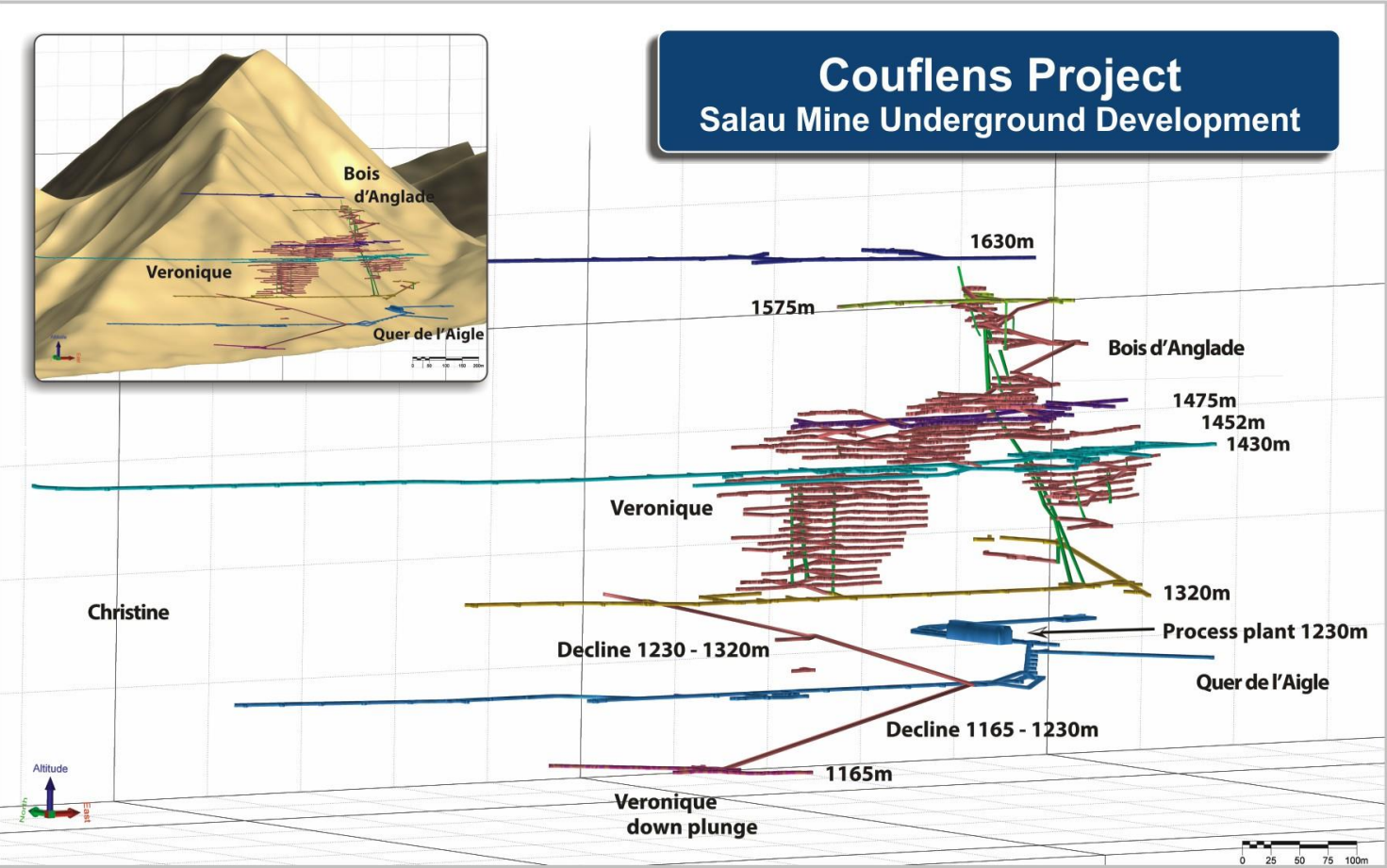
## LIMITED LARGE SCALE SUPPLY



Only **2** mines outside of China with production capacity greater than 3,000tpa tungsten in concentrate



# SALAU MINE UNDERGROUND DEVELOPMENT



# IMPORTANT NOTICES

---



## Forward Looking Statements:

This presentation may include forward-looking statements. These forward-looking statements are based on Apollo Minerals Limited's (Apollo) expectations and beliefs concerning future events. Forward looking statements are necessarily subject to risks, uncertainties and other factors, many of which are outside the control of Apollo, which could cause actual results to differ materially from such statements. Apollo makes no undertaking to subsequently update or revise the forward-looking statements made in this announcement, to reflect the circumstances or events after the date of that announcement.

## References

1. Fonteilles M., Soler P., Demange M., & Derré C., 1989; "The Scheelite Skarn Deposit of Salau (Ariège, French Pyrenees)", Economic Geology, Vol 84, pp 1172 – 1209

## Cautionary Statements & Important Information:

This presentation has been prepared by Apollo as a summary only, and does not contain all information about Apollo's assets and liabilities, financial position and performance, profits and losses, prospects, and the rights and liabilities attaching to Apollo's securities. Any investment in Apollo should be considered speculative and there is no guarantee that they will make a return on capital invested, that dividends would be paid, or that there will be an increase in the value of the investment in the future.

Apollo does not purport to give financial or investment advice. No account has been taken of the objectives, financial situation or needs of any recipient of this presentation. Recipients of this presentation should carefully consider whether the securities issued by Apollo are an appropriate investment for them in light of their personal circumstances, including their financial and taxation position.

## Competent Persons Statement

The information in this presentation that relates to Exploration Results is extracted from announcements dated 21 August 2017, 3 October 2017, 29 November 2017 and 5 February 2018. These announcements are available to view on [www.apollominerals.com.au](http://www.apollominerals.com.au). The information in the original announcements that related to Exploration Results were based on, and fairly represents, information compiled by Mr Robert Behets, a Competent Person who is a Fellow of The Australasian Institute of Mining and Metallurgy and a Member of the Australian Institute of Geoscientists. Mr Behets is a holder of shares and options in, and is a director of, Apollo Minerals Limited. Mr Behets has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking 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'. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.



Apollo Minerals Limited (ASX: AON) | [www.apollominerals.com.au](http://www.apollominerals.com.au) | [info@apollominerals.com.au](mailto:info@apollominerals.com.au)

**PERTH** Level 9, BGC Centre, 28 The Esplanade Perth, WA 6000 | +61 8 9322 6322 | +61 8 9322 6558

**LONDON** Unit 3C, Princes House, 38 Jermyn Street London, SW1Y 6DN | +44 203 903 1930 | +44 207 434 4450