



Gold and Lithium in Austria



# BUSINESS PLAN

# AUREX BIOMINING AG



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## Disclaimer

This presentation contains forward-looking statements that were based on expectations and estimates as of the date of this presentation. These statements are subject to known and unknown factors which may cause actual results and developments to materially differ from those expressed or implied. Aurex Biomining AG has taken reasonable care in the preparation of this presentation however, it may not include all relevant information regarding Aurex Biomining AG. Any person considering an investment in Aurex Biomining AG is advised to obtain independent financial advice prior to making an investment decision.

### **Aurex Biomining AG - Key Facts**

Shares (already sold):	54 M
Treasury Shares:	6 M
Fully Diluted:	60 M
Share Price:	EUR 0.10
Market Capitalization:	EUR 6 M

# 1. Executive Summary

## 1.1 Business Proposal



Aurex Biomining AG is a private European exploration company, based in Switzerland, and engaged in exploration and development of valuable commodities and precious metal deposits, predominantly critical raw materials, as well as gold and silver, in the EU.

The current field of activities is in Austria, in the traditionally resource-rich province of Styria, where the company operates a gold/lithium project near the village of Pusterwald comprising an area of about 40 square kilometers. The future mining and associated ore processing will be carried out in an environmentally friendly Biomining process.

In March 2020 the Oberzeiring polymetallic project was sold to the Canadian public mineral exploration company Richmond Minerals Inc. (TSX-V: RMD) for a stake in the company amounting to 40 million Richmond shares, equivalent to around one third of the issued share capital of the corporation. This stake in the company is held by the operational Austrian subsidiary Silbermine Zeiring GmbH, which is wholly owned by Aurex Biomining AG.

Here is the link to the company website:

<https://richmondminerals.com/>



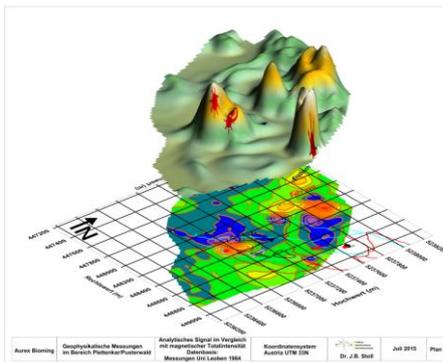
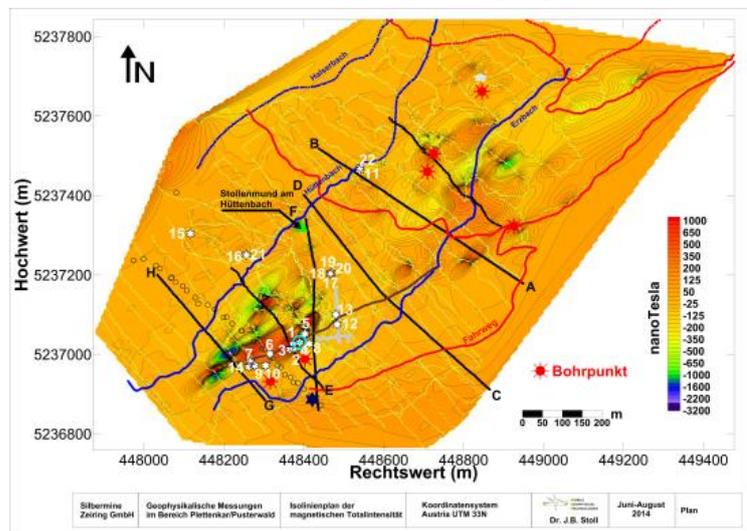
## Gold District Pusterwald - Key Facts



Dr. Viereicher with professors from Uni Graz

- 96 granted claims near the village of Pusterwald comprising a total area of about 40 km<sup>2</sup>
- Mining activities have been documented since 1588, but probably since Celtic and Roman times
- 14 historical high-grade occurrences of gold are known at surface

- Problems with flooding impacted on mining activities in historical times
- Numerous historical gold mines were found within the licence area
- Gold grades of up to 59 g/t with an average of 17.7 g/t have been published in the mining literature of the area 'Plettenkar' in the year 1952
- All mining experts agree on the abundant occurrence of ore in the 'gold-area' Pusterwald
- Recently taken surface samples from the Plettenkar, yielded 7.17; 9.36; 9.45; 9.93; 10.7; 10.9; 14.15; 14.45; 16.85; 23.4; 28.2; 29.2; 37; 41.1 and as top value 85.2 g/t gold!
- Many strong geophysical anomalies, using Magnetic, VLF, RMT, IP, SP methods, have recently been discovered
- First diamond core drilling successfully completed
- Good contacts with the local authorities and landowners
- Resuming mining activities is welcomed in the region, especially since "gold" is also a tourist attraction here



Figures showing a map/animation of partial geophysical measurements in Pusterwald.

In the event of successful development, the sale of the project(s) to an established mining company is planned (exit strategy), or internal development of an economically feasible mine incorporating environmentally friendly processes would also be considered.

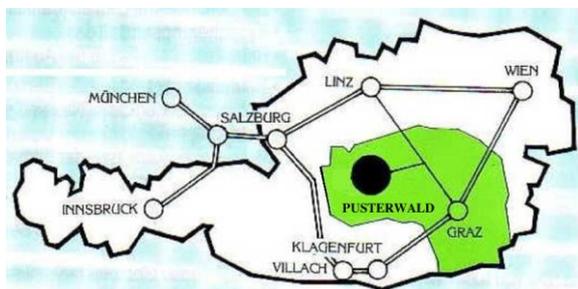
With our team of experts it is Aurex Biomining AG's stated goal to continuously grow and advance development of our precious metals/commodities project(s) to the stage of sale or mining production. Our team is also focused on the acquisition of new promising projects, to apply for an international stock market listing with the goal of becoming a major exploration and mining development company in Europe.

## 2. Project Fundamentals

### 2.1 General Project Information

Austria is a very mining-friendly country. The Austrian governments plan for mineral resources even served as a blueprint for a notice of the EU to its member states: *“In the EU the regulatory framework has to be structured in such a way as to encourage a supply with mineral resources from European sources.”*

The Styrian Alps once had been famous for their abundance in gold and silver occurrences.



Our gold project is situated in the mineral-rich district of Styria, about 120 km to the south-east of Salzburg and about 85 km to the north-west of Graz. It covers the south-eastern slopes of the Woelzer Tauern, west of the large Poelstal fault zone and comprises 96 granted claims in the gold bearing ore zone near the village of Pusterwald. This area has a

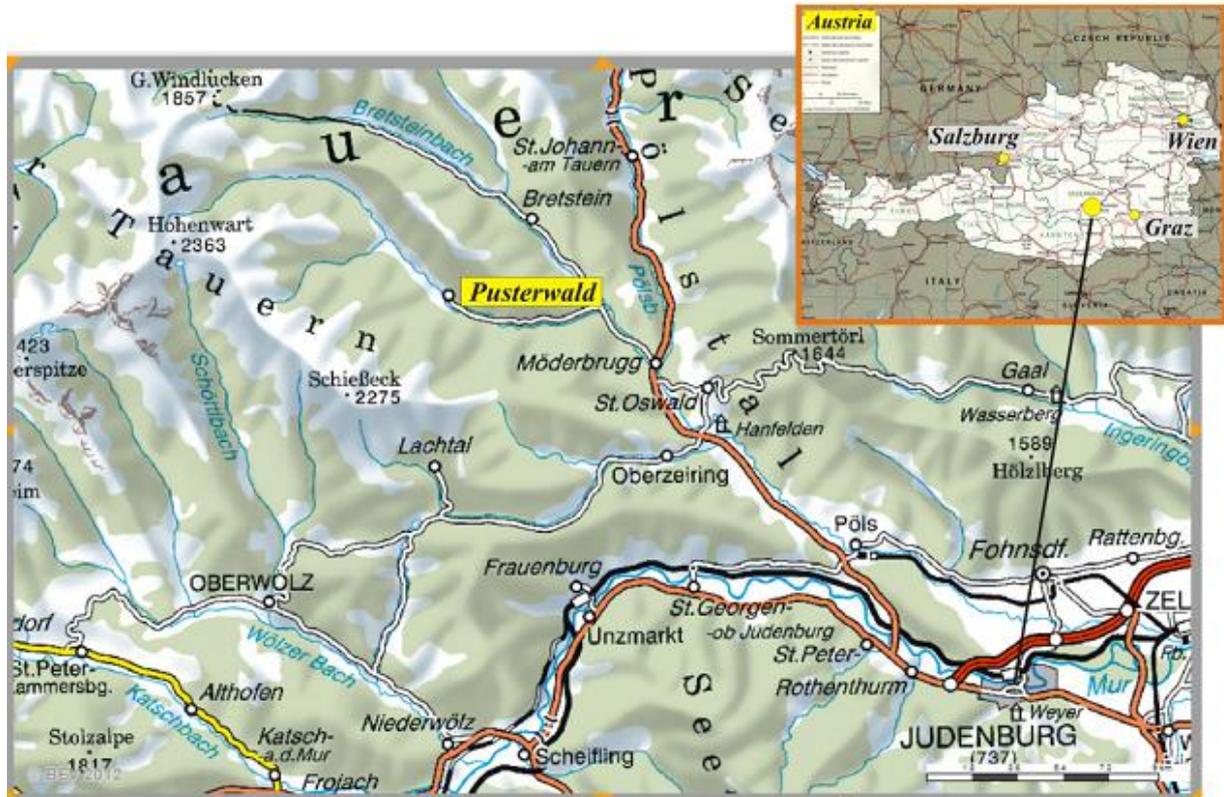
well known history of mining - mainly for gold, silver, copper and lead - as far back as to the early Middle Ages. Historical artifacts even date back to the Bronze Age, to the Illyrians, the Celts and the Romans.

Nowadays the exploration of ancient mining areas with modern methods is common practice worldwide in discovering as yet unknown mineralization/ore bodies.

In recent years, the precious metal and commodities markets have once again gained massive importance in the perception of investors. Several reasons can be given for this. On the one hand, the debate in society as a whole about the limited availability of certain natural resources and the simultaneous growing demand from emerging economies such as China and India have contributed to the focus on gold and other precious metals, as well as critical raw materials and rare earths. On the other hand, the strong increases in the value of many precious metals and popular commodities have led to the fact that interest has grown significantly and is still increasing.

## 2.3 Gold & Lithium District Pusterwald

Our project area with 96 licensed claims near the village of Pusterwald comprises an area of about 40 square kilometers and is situated between 1050 and 2000 m above sea level. The infrastructure around the idyllic mountain village is good and remote areas are all within easy reach on forestry roads.



There are excellent contacts to the local authorities and landowners, who welcome our exploration work and a re-uptake of mining activities.

### History of Mining in Pusterwald

The oldest settlements in the valley of Pusterwald, a side valley of the Pöls valley, are probably built by Illyrians (400 – 400 B.C.) and Celts (from 400 B.C.), as archaeological findings suggest. The Romans, who came later, had probably also mined gold and silver. After the Völkerwanderung (Migration Period), during which no settlements occurred, bavarian and franconian settlers were brought to the valley in the 10<sup>th</sup> to 12<sup>th</sup> century by clerical and secular landowners as e.g. the Dukes of Montfort. Emperor Friedrich III. granted the right to mine "Tauerngold" in the 15<sup>th</sup> century to several people. A further hint to medieval mining in the year 1588 comes from Wichner (1891).

Later there are no reported mining activities in the area. Only towards the end of the 19th century mining started again. The brothers Heinzl from Sudetenland reactivated gold mining and put patented claims on large areas, put considerable sums into expert opinions and analysis and analysed large samples, e.g. at Krupp-Gruson in Magdeburg. A company from Kassel even did geophysical (electrical) testing. All this consumed the available means rather fast. A British company was interested before 1938, but quit again. By the affiliation with the "Dritte Reich", considerable means became available for exploration. This made it possible

that on the one hand the Geologische Bundesanstalt (at that time Reichsamts für Bodenforschung, Vienna branch) a geological survey could be done by R. A. Thurner and on the other hand the Lagerstätten-Forschungsstelle under Prof. Dr. Friedrich started exploration work. Due to the war manifold difficulties arose and in the end lack of funding lead to the end of the work, without having clearly answered the key question, if the deposits merit mining.

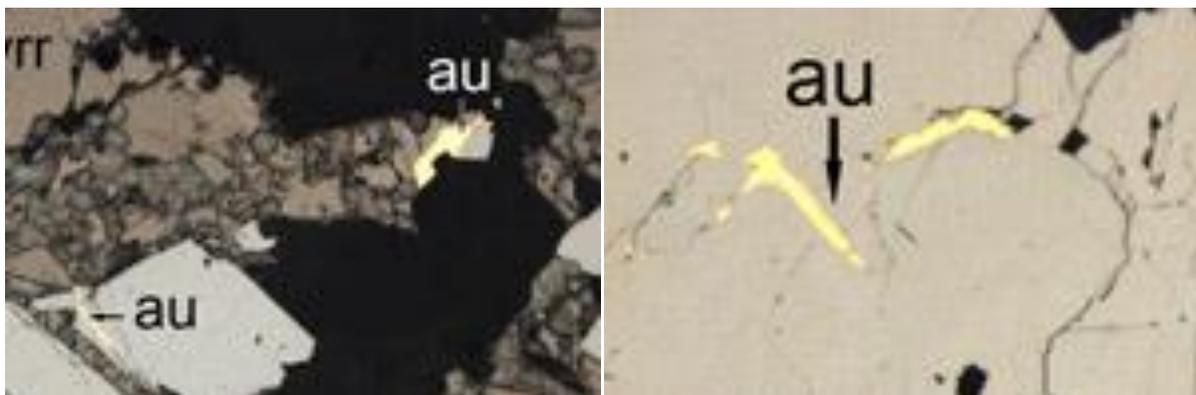
14 ancient gold occurrences are recorded in the southeastern area of the Wölzer Tauern near the village of Pusterwald and in the whole area of our exploration licenses, even today



historical mines can be recognized. In spite of all these historical mining activities the available literature is scarce. A number of unpublished reports from the last century are found (e.g Trug, 1920; Micko 1921 – 1923; Freidrich 1939 – 1954; Thurner 1938 – 1954; Lechner 1941, 1954; Waagen 1949 – 1952; Omerzu 1961), which are not always consistent with each other. They however all agreed to the fact that the area around Pusterwald shows an impressive abundance of ore deposits. The focus of all this work is on the Plättenkar, a few kilometers to the west of Pusterwald. Of rather minor significance are the gold

deposits at Scharnitz and Mitterspiel-Gräben to the north of Plättenkar and some areas situated higher up to the west. In a newspaper report in 1952 by Hofrat Dr. Lukas Waagen, at that time geologist in chief of the Geologische Bundesanstalt (Federal Austrian Geological Department), the gold deposits around Pusterwald are said to be “very promising”. Using many old analyses, he calculated an average grade of 17.7 g/t gold. In the specialized literature on Plättenkar, gold contents from 0 to 59 g/t are mentioned as well es primary and secondary free gold. According to H. Weninger in 1981 grains of gold with a diameter of up to several millimeters are occasionally found at Plättenkar area.

In the area near Pusterwald two types of ore are recognized: one are zones of mylonite (tectonic faults) with solid ores 0.5 to 2 meters wide, the other are gold-bearing “Erzglimmerschiefer” containing mainly invisible gold - that means, gold molecules are implemented in the crystalline grid.



Images of gold ore under the ore microscope

The additional occurrence of free gold within the Erzglimmerschiefer is rare and irregular. The problems with water in the tunnels, which led to the cessation of mining in historical times, at that time work was carried out without machines or electricity. Locations with increased occurrence of gold grains were probably kept secret and mined by hand.

### Laboratory Analysis with up to 85.2 g/t Gold!

The first rock samples taken by experts in the project area Pusterwald at Plättenkar were documented and sent to ALS/OMAC, an internationally operating and renowned laboratory. The results were excellent, showing among others 9.45g / 9.93g / 2x 10.9g / 23.4g / 29.2g / 37g/t and a top value of 85.2 g/t (Au) in the rock samples, to be mentioned, that the average grades of many large producers of gold are only 1 – 2 g/t and below.

From a further 19 rock samples, taken from the Plättenkar area near the village of Pusterwald, analyzed by ALS/OMAC Laboratory, 13 samples were found to contain significant gold contents of up to 16.84 g/t. Furthermore we also managed to expand the gold mineralization zone in the Plättenkar area by a considerable amount and found gold mineralization in new, as yet undiscovered zones. The highest values from the laboratory analysis are 7.17 / 9.36 / 10.7 / 14.15 / 14.45 and 16.85 g/t gold in the rock samples.



Picture of ore containing about 85 g/t gold

the exception of analysis of geological structure and some geophysical measurements (Geomagnetics, Induced Polarisation (IP), Radiomagnetotelluric and Magnetics i.e. VLF) the preparatory work for deep drilling is mostly done – a significant advance in the project development reached.

### Strong and widespread Anomalies discovered by Geophysics

In the project area Pusterwald (Plättenkar), where we had documented multiple excellent gold grades of up to 85.2 g/t in rock samples, the geophysicists Dr. Stoll (MGT- Geophysics, Germany) and Dr. Gurk (University Cologne) performed geophysical measurements (see pictures).



Dr. Stoll and Dr. Gurk doing geophysical Measurements at Plättenkar

In order to identify all fault zones (associated with ores) we have chosen VLF as a suitable method and in order to identify all areas with high magnetism, geomagnetics. This seems promising, since previous geological examinations by microscopy, the gold in Plättenkar is mainly bound to arsenopyrite and pyrrhotite, the latter providing high magnetic values. We have been able to identify such high magnetic anomalies in several areas of the Plättenkar and the VLF measurement method also clearly identifies several fault zones, which together with the extremely strong magnetic anomalies represent a very prospective area for our further exploration work, especially for diamond core drilling. Another very productive measurement method, that has been used, is the RMT (Radiomagnetotellurik) method,



Dr. Gurk doing RMT-Measurements

which has enabled us to more precisely localize the highly conductive zones in the subsurface. In good weather conditions in autumn of 2020 it is planned to carry out additional RMT measurements in addition to IP (Induced Polarization), which in turn should provide us with more detailed information on the already very good and promising measurement results. Furthermore, in the area of the strongest anomalies, we will try to extract rock samples in order to carry out further analyzes on primarily gold grades in the ALS / OMAC laboratory as a preliminary to the planned deep drilling program.

## Planning of Exploration

Due to the encouraging results of the previous years, we plan within the next 2-3 years a large exploration campaign in several interesting areas, focusing in the Plättenkar area:

- systematic sampling for laboratory analysis
- geophysical measurements with analysis of geological structure
- definition of drilling locations followed by further diamond core drillings
- first estimate of size and extent of gold mineralization

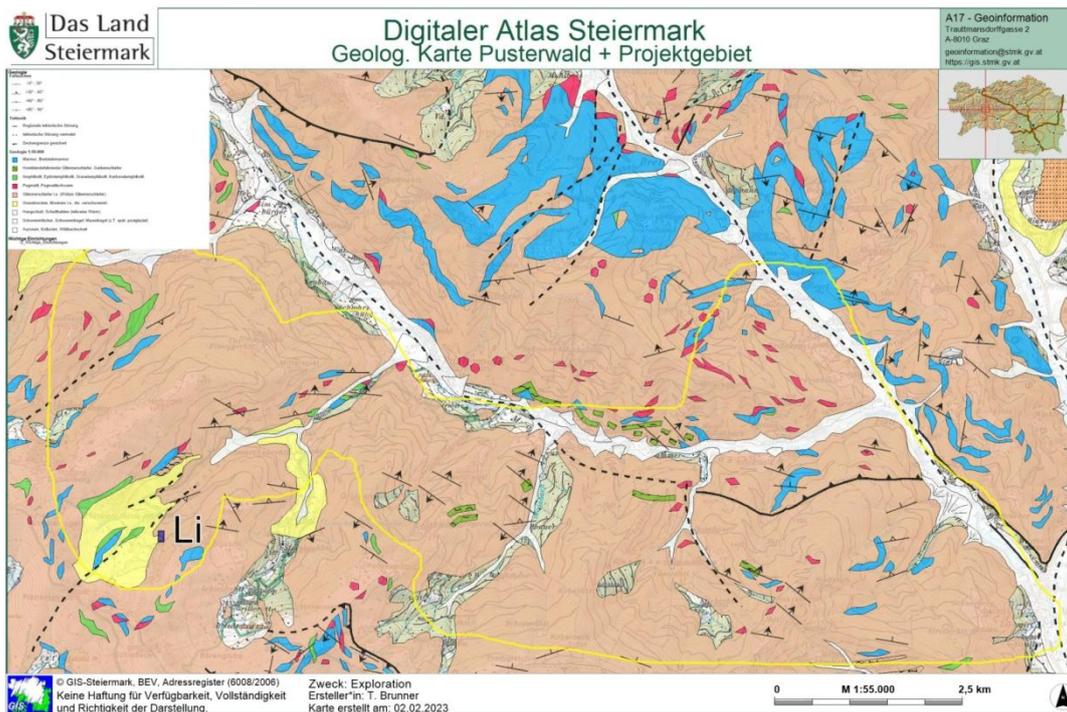
## Project area Pusterwald 2023 doubled due to excellent lithium prospectivity

Our application for the award of a further 48 claim units, because of the increased lithium analysis values from the stream sediment geochemistry in 2020, was approved by the Austrian Federal Ministry. As a result, our subsidiary, Silbermine Zeiring GmbH, now holds 96 exploration licenses near the village of Pusterwald. Prof. Dr. Heinrich Mali from the Montanuniversität Leoben pointed out the excellent prospectivity for lithium in the region around the village of Pusterwald as early as 2004 in the course of his former PhD study. According to Prof. Dr. Mali there are definitely hot spots in our project area that contain occurrences of spodumene pegmatites, which are host rocks for lithium and rare earths.

Here is the link to download the PhD study by Prof. Dr. Heinrich Mali:

[https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKewiTwr3j5X9AhUF6gQKHW7rBT4QFnoECAgQAQ&url=https%3A%2F%2Fwww.zobodat.at%2Fpdf%2FJoaneaMineralogie\\_2\\_0005-0053.pdf&usg=AOvVaw2JMY6Z3TdRpfTO5hshih0Zt](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKewiTwr3j5X9AhUF6gQKHW7rBT4QFnoECAgQAQ&url=https%3A%2F%2Fwww.zobodat.at%2Fpdf%2FJoaneaMineralogie_2_0005-0053.pdf&usg=AOvVaw2JMY6Z3TdRpfTO5hshih0Zt)

In the south of Austria near the city of Wolfsberg (Carinthia), a lithium mine with its own processing plant is now to be built. If lithium ores were to be mined in Pusterwald in the future, the material could be processed there at low cost, since the distance for delivery is just about 80 km.



Above you can see a geological overview map of the Pusterwald gold & lithium project, where our project area (as of January 2023 after doubling) is also marked with a yellow border. The red formations on the geological map are pegmatites that very often contain lithium & rare earth bearing spodumene ore - such as the area marked purple with "Li" on the map - and therefore on critical commodities such as lithium and tantalum, and also other interesting rare earth contents to be examined. We now want to go through the entire project area (more than 40 km<sup>2</sup>), geologically examine and sample it in 2023, as many areas (more than 50%) are still "terra incognita" and have never been geologically recorded or sampled. We plan to do the same with the territory in the catchment area of the three adjacent creeks from which we have had increased lithium values in the sampled sediments analyzed in the laboratory. This area is of course given top priority and we plan to employ an advanced geology student from the Montanuniversität Leoben, starting in March 2023, who will help us with the upcoming work.

Each of these planned steps is approaching the first commercially viable mining projects and in parallel a considerable increase in the value of the enterprise's shares.

### 3. Risk Analyses

As in every business there are some risks in ours as well. The main risk for our company certainly is a major drop in market prices of precious metals and critical raw materials, our company is exploring. Another risk could be that ore veins detected are too narrow or too low grade for commercial mining. This we do not expect, though as history shows that in Pusterwald, ores were mined with high precious metal contents, otherwise large amounts of waste materials with 40g/t gold or more, disposed in ancient time, would not be found in the numerous mining dumps.

### 4. Products

The following precious metals or raw materials are contained in or together with the respective ores of the project area and could be mined after completing an economic feasibility study as by-products in addition to the "green" marked main product, which drastically reduces the future mining expenditures and of course the development costs:

Pusterwald: **Au, Li, Ta, Ag, Sb, Cu**

The table of critical raw materials for the EU (2020) now contains 30 critical raw materials (after 14 critical raw materials in 2011, 20 in 2014 and 27 in 2017):

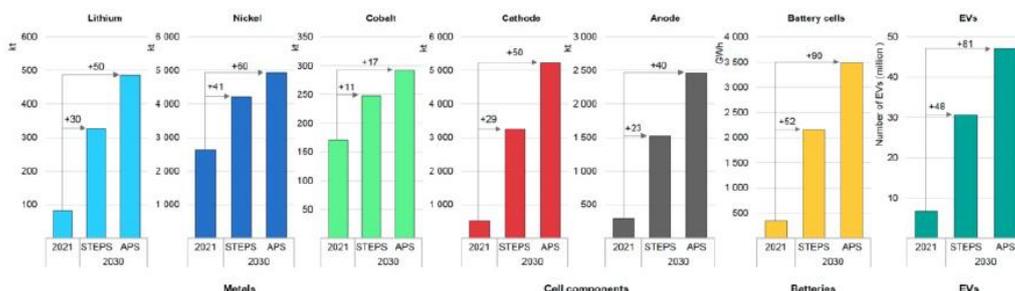
**Antimony**, Baryte, Bauxite\*, Beryllium, Bismuth, Borate, Cobalt, Coking coal, Fluorspar, Gallium, Germanium, Hafnium, Indium, **Lithium\***, Magnesium, natural Graphite, natural Rubber, Niob, Phosphate Rock, Phosphorus, Scandium, Silicon metal, Strontium\*, Tantalum, Titanium\*, Tungsten, Vanadium, Platinum Group Metals, Heavy Rare Earths, Light Rare Earths.

(The raw materials underlined and marked with \* are new in the list as compared to 2017.)

**Lithium (Li), Tantal (Ta) and Antimony (Sb)**, which occur in increased concentrations in our project area, is defined by the EU as "critical raw materials" and therefore especially in demand, since there is hardly any occur within the area of the EU and in addition the demand steadily increases. There are subsidies available in the EU of several hundred millions Euro for the detection of such raw materials deposits in connection with the development of innovative exploration methods.

**"By 2030, more than 50 lithium mines are needed to meet demand if emission targets in Europe, North America and East Asia are to be met."** (International Energy Agency, 2022)

Number of mines to produce required levels of metals, anode/cathode production plants, battery gigafactories and EV plants required to meet projected demand in 2030 relative to 2021



IEA (2022)

## Problematic supply and demand situation for lithium

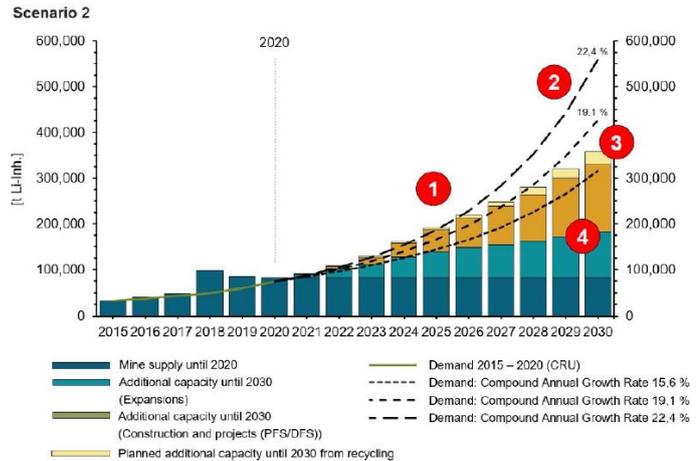
### GERMAN RAW MATERIAL AGENCY

- Supply and Demand -

- Lithium supply deficit scenarios

**1** - 69.040 t till 2025

**3** - 201.100 t till 2030



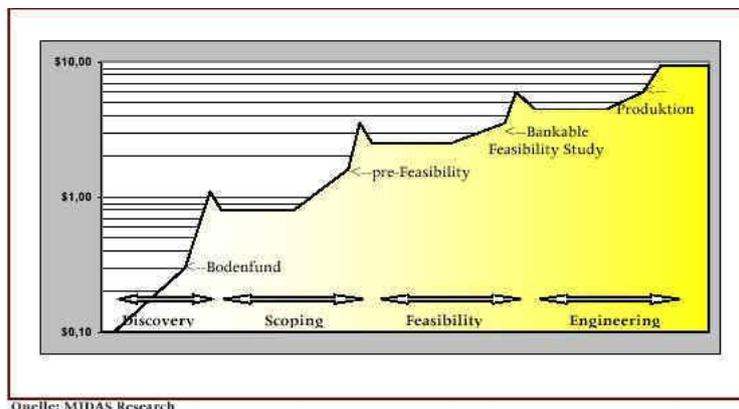
DERA (2022)

## 5. Resources - Profit Potential

There is an extensive geophysical dataset that provides evidence of the potential wide spread of mineralized zones in our project area. As a result of the extensive exploration work, there are clearly defined hot spots that represent the primary targets for further, more detailed exploration work.

Conclusions: The project area of Pusterwald offers excellent conditions to find profitable resources of precious metals and critical raw materials. Thus, a high profit potential exists for all investors / shareholders of Aurex Biomining AG.

The earlier an investor invests in shares from Aurex Biomining AG, the higher is the personal profit potential. According to an earlier study by "Midas Research", in the past, an extremely high stock price increase of one hundred times more was typical for successful precious metal exploration.



**Typical increase in stock price from \$ 0.10 to \$ 10.00**

The current stock price of EUR 0.10 in the early stages of exploration offers a particularly favorable opportunity.

## 6. Exit Strategy

In the event of successful development within the time frame of 2-3 years, a sale of the project(s) to an established mining company is planned, but also internal development of an economically feasible mine incorporating environmentally friendly processes would be considered.

## 7. Corporate Information

Aurex Biomining AG was founded in 2006 in Switzerland and is registered in the companies register of the district of St. Gallen (Registry No. CH-320.3.059.072-4)

Chairman of the Board/CEO:	Thomas Brunner (A)
Vice Chairman of the Board:	Dr. Urs Schmied (CH)
Board Member and Administration:	Elisabeth Haidvogl (A)
Geological Consultant:	Univ. Prof. Dr. DI Werner Paar (A) Dr. Richard Vielreicher Dr. Martin Oczlon (D)
Geophysical Consultant:	Firma MGT - Dr. Johannes Stoll (D)
Public Relations:	Dipl. BW Oliver Walker, MBA (A) Ing. Thomas Breuss (A)

Aurex Biomining AG has currently issued a total of 60 million shares, of which 6 million shares are still held by the company in treasury for sale. As of February 15, 2023 there were 371 shareholders with the management holding about 29% of the company's share capital.

At a share price of EUR 0.10, the market capitalization is EUR 6 million.

As is customary internationally, the registered shares of Aurex Biomining AG are not printed securities but electronically registered stock rights, commonly referred to as electronic shares. The relevant share register is held in trust by our Board member and Chief Administrator Ms. Elisabeth Haidvogl (A), and a current duplicate is located at both other Board members and at the company headquarters in Wattwil.

## 8. Financing

Exploration work will be financed through the sale of 6 million treasury shares from the company (EUR 0.10 per share), resulting in proceedings of EUR 600,000. This allows the continuation of the extensive exploration and development work in the respective project area, which is carried out by the Austrian subsidiary Silbermine Zeiring GmbH. The capital for future, new projects should be generated by the successful sale of the existing project(s), or by private placements.



## 9. Financial Planning

For the period 2023-2024, the following expenditures are planned to carry out the necessary exploration work:

Geophysical measurements .....	60.000 Euro
Drilling program .....	400.000 Euro
Geochemical rock sampling .....	20.000 Euro
Laboratory analysis .....	10.000 Euro
Personnel costs .....	100.000 Euro
Various costs .....	10.000 Euro
<hr/>	
<b>Total capital requirement</b>	<b>600.000 Euro</b>

The development work in our precious metals / commodities deposit should give us a detailed overview of the size and extent of the respective ore deposit to get a first resource definition according to the Canadian standard NI 43-101.

## 10. Our Goals

In the event of successful development, the sale of the project(s) to an established mining company is planned (exit strategy), or internal development of an economically feasible mine incorporating environmentally friendly processes would also be considered.

With our team of experts it is Aurex Biomining AG's stated goal to continuously grow and advance development of our precious metals/commodities project(s) to the stage of sale or mining production. Our team is also focused on the acquisition of new promising projects, to apply for an international stock market listing with the goal of becoming a major exploration and mining development company in Europe.

February 15, 2023

**If you need further information please contact:**

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