



# Alta Zinc Limited

## Emerging European Metal Producer

WORLD LEAD AND ZINC CONFERENCE | MAY 2020 | ASX: AZI

# CAUTIONARY STATEMENT



## **This presentation contains summary information about Alta Zinc Limited (Alta Zinc or the Company).**

**Summary of information:** This presentation contains general and background information about the Company's activities current as at the date of the presentation, and (i) does not purport to be complete; and (ii) should not be considered to be comprehensive or to comprise all the information that an investor should consider when making an investment decision. The information is provided in summary form, has not been independently verified, and should not be considered to be comprehensive or complete. The Company is not responsible for providing updated information and assumes no responsibility to do so.

**Not financial product advice:** This presentation is not financial product, investment advice or a recommendation to acquire the Company securities and has been prepared without taking into account the objectives, financial situation or needs of individuals. Before making an investment decision prospective investors should consider the appropriateness of the information having regard to their own objectives, financial situation and needs, and seek legal, taxation and financial advice appropriate to their jurisdiction and circumstances. The Company is not licensed to provide financial product advice in respect of its securities or any other financial products. Cooling off rights do not apply to the acquisition of the Company securities. The Company assumes that the recipient is capable of making its own independent assessment, without reliance on this document, of the information and any potential investment and will conduct its own investigation.

**Disclaimer:** The Company and its related bodies corporate and each of their respective directors, agents, officers, employees and advisers expressly disclaim, to the maximum extent permitted by law, all liabilities (however caused, including negligence) in respect of, make no representations regarding, and take no responsibility for, any part of this presentation and make no representation or warranty as to the currency, accuracy, reliability or completeness of any information, statements, opinions, conclusions or representations contained in this presentation. In particular, this presentation does not constitute, and shall not be relied upon as, a promise, representation, warranty or guarantee as to the past, present or the future performance of the Company.

**Forward looking statements:** This presentation may contain certain forward-looking statements and opinions including projections, forecasts and estimates (together forward looking statements) which may not have been based solely on historical facts, but rather may be based on the Company's current expectations about future events and results. Where the Company expresses or implies an expectation or belief as to future events or results, such expectation or belief is expressed in good faith and believed to have a reasonable basis. However, forward looking statements are subject to risks, uncertainties, contingencies, assumptions and other factors, many of which are outside the control of the Company all which could cause actual results to differ materially from future results expressed, projected or implied by such forward-looking statements. Forward looking statements are inherently uncertain and may therefore differ materially from results ultimately achieved. Alta Zinc does not make any representations and provides no warranties concerning the accuracy of any forward looking statements or likelihood of achievement or reasonableness of any forward looking statements. Past performance is not necessarily a guide to future performance. The Company does not undertake any obligation to release publicly any revisions to any forward-looking statement to reflect events or circumstances after the date of this presentation, or to reflect the occurrence of unanticipated events, except as may be required under applicable securities laws.

**Risks:** An investment in the Company is subject to investment and other known and unknown risks, some of which are beyond the control of the Company. Such risks include, but are not limited to metals price volatility, currency fluctuations, increased production costs and variances in ore grade or recovery rates from those assumed in mining plans, as well as political and operational risks, and governmental regulation and judicial outcomes.

**Not an offer:** This presentation is for information purposes only. The presentation does not comprise a prospectus, product disclosure statement or other offering document under Australian law (and will not be lodged with ASIC) or any other law. This presentation also does not constitute any invitation, offer for sale or subscription or any solicitation for any offer to buy or subscribe for any securities nor shall they or any part of them form the basis of or be relied upon in connection therewith or act as any inducement to enter into any contract or commitment with respect to any securities.

**Monetary values:** Unless otherwise stated, all dollar values are in Australian dollars (A\$). The information in this presentation remains subject to change without notice.

**No Distribution in the US:** This presentation is not an offer of securities for sale in the United States. Any securities to be issued by the Company have not been and will not be registered under the US Securities Act of 1933, as amended (the US Securities Act) and may not be offered or sold in the United States absent registration or an exemption from registration under the US Securities Act. No public offer of the securities is being made in the United States and the information contained herein does not constitute an offer of securities for sale in the United States. This presentation is not for distribution directly or indirectly in or into the United States or to US persons.

**No distribution:** Distribution of this presentation may be restricted by law. Persons who come into possession of this presentation should seek advice on and observe any such restrictions. Any failure to comply with such restrictions may constitute a violation of applicable securities laws.



# LOCATED IN INDUSTRIAL NORTHERN ITALY



## Northern Italy – highly supportive of industrial development and extractive industries

### Project Status

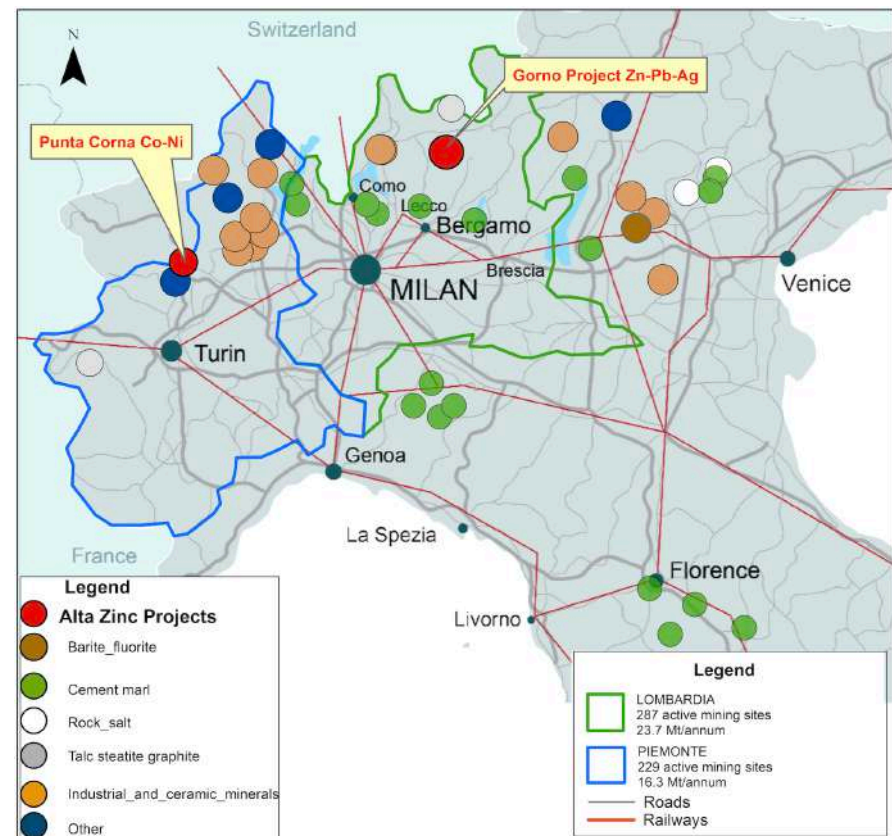
- ESIA & baseline monitoring completed
- 20 year mining licence renewal lodged and in progress
- AZI conducted mining activities from 2015 to 2017

### Pro-Mining Environment

- Highly engaged regional government
- Full support of local population & municipality
- Projects located in Italy's mining and industrial regions (containing 24% of Italy's annual production of non-energy Mineral Resources)<sup>1</sup>

### Favourable Regulatory Regime

- Transparent mining law and regulatory regime
- No government royalties or free carry
- Tax rate of 27.9% & full tax loss carry forward



1. From 2019 report by ISTAT (Italian National Institute of Statistics)

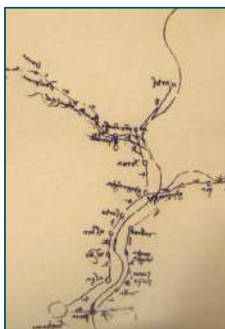
# HISTORICAL RECORD OF MINING AT GORNO



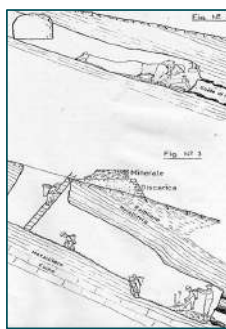
## A long, rich and innovative mining legacy



70 AD



1078 to 1797



1808 to 1857



1870



1952



1982



2015 on

First record  
of mining  
at Gorno

Roman  
stone plinth gives an  
indication of prisoner  
labour at Gorno

Artisanal  
Silver  
and Lead  
extraction

Leonardo da Vinci  
mapped area and  
recognising mineral  
potential (1500 AD)

Formal mining  
methods  
at Gorno

Formal mining  
legislation  
and concessions  
granted

Advent of  
modern  
mining

Crown-Spelter Co.  
buys Gorno.  
Herbert Hoover  
(31<sup>st</sup> US President)  
visits Gorno and is so  
impressed he brings  
Gorno miners to the  
Sons of Gwalla Mine  
(Western Australia)

Ponte  
Nossa  
plant

Largest hydro-  
metallurgical plant in  
Europe is built to treat  
Gorno oxide ore.  
  
Sulphide mining starts  
from 1970's (SAMIM  
smelters)

Gorno  
Mine  
closed

SAMIM globally close  
all mining ventures.  
Leaving Reserves in  
the ground at Gorno

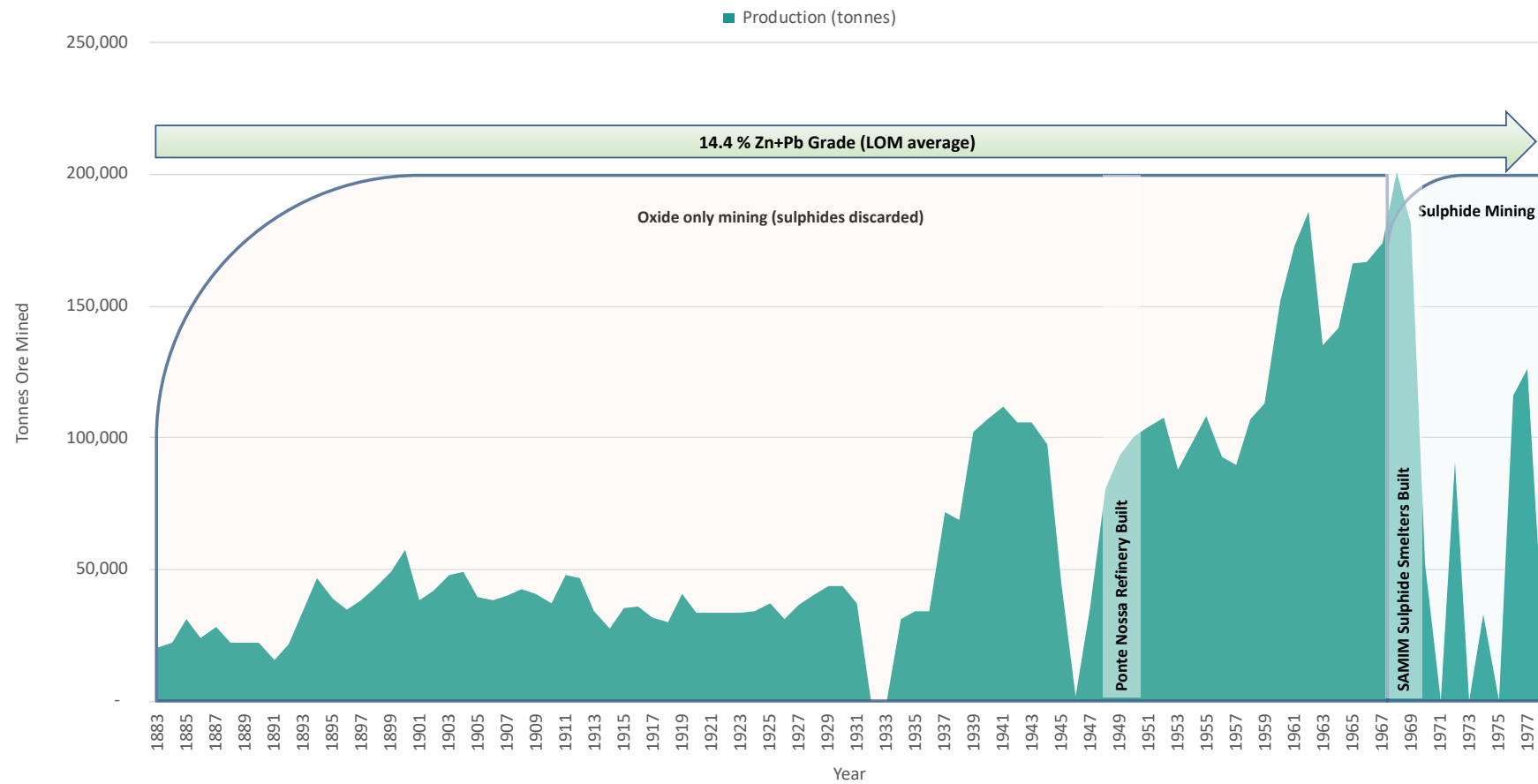
Alta Zinc  
(Energia  
Minerals)

Mine development,  
exploration and  
Feasibility Study.  
  
Now Resource  
expansion

# A 100 YEAR PRODUCTION HISTORY



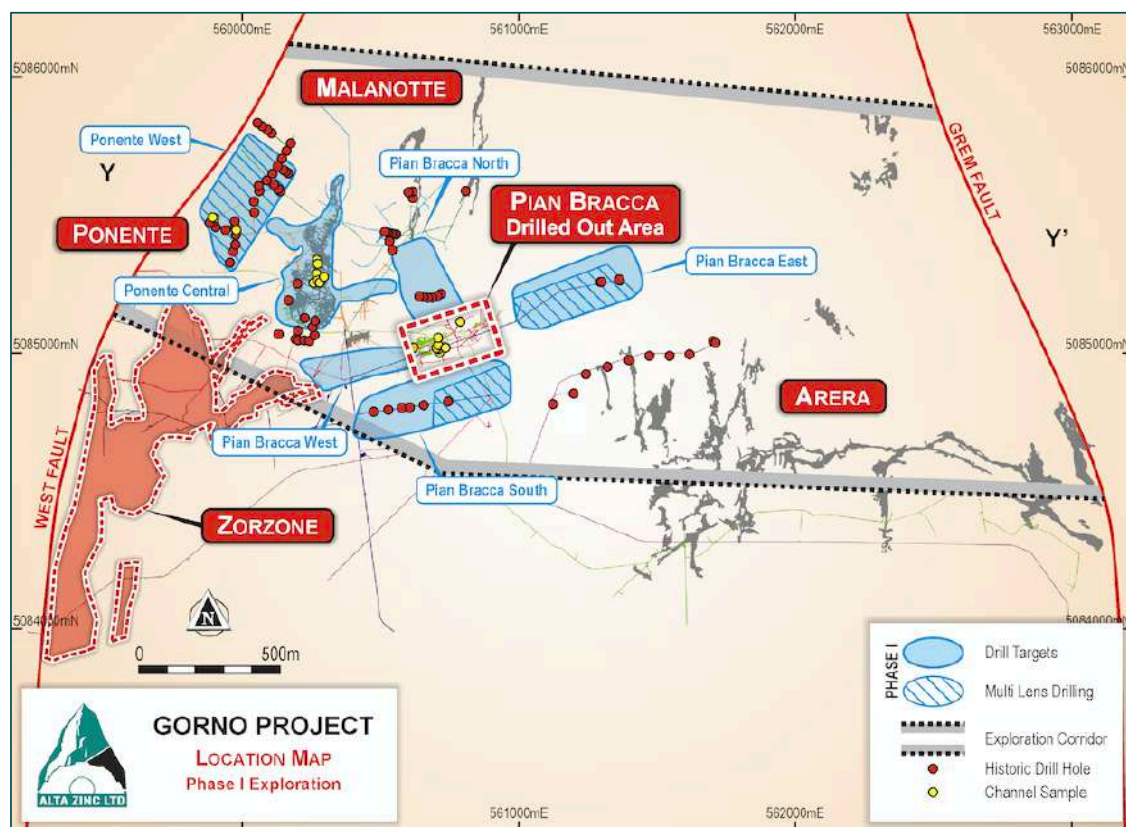
## Gorno Mine Historical Production



# BUILDING A STRONG RESOURCE BASE



## Low risk brownfield exploration of a Mississippi Valley Type (MVT) Zinc District



### Extensive & Underexplored Exploration Corridor

- High-grades widely evident
  - 15.0m at 18.3% Zn+Pb and 70g/t Ag from 65.3m (PBD13A)
  - Ponente channel samples ave. grade 21% Zn+Pb
- Validated geological model, unlocks regional potential
- Pian Bracca mineral horizons show continuity into other mining areas
- Mining, drilling and mapping show the same mineralised horizons are widespread at Gorno
- Data defined exploration corridor >3km length, with Pian Bracca testing <5%
- Efficient exploration planned:
  - Short holes from existing development
  - Drill targeting leveraging deep geologic knowledge
  - Multiple horizons drilled from single set-ups



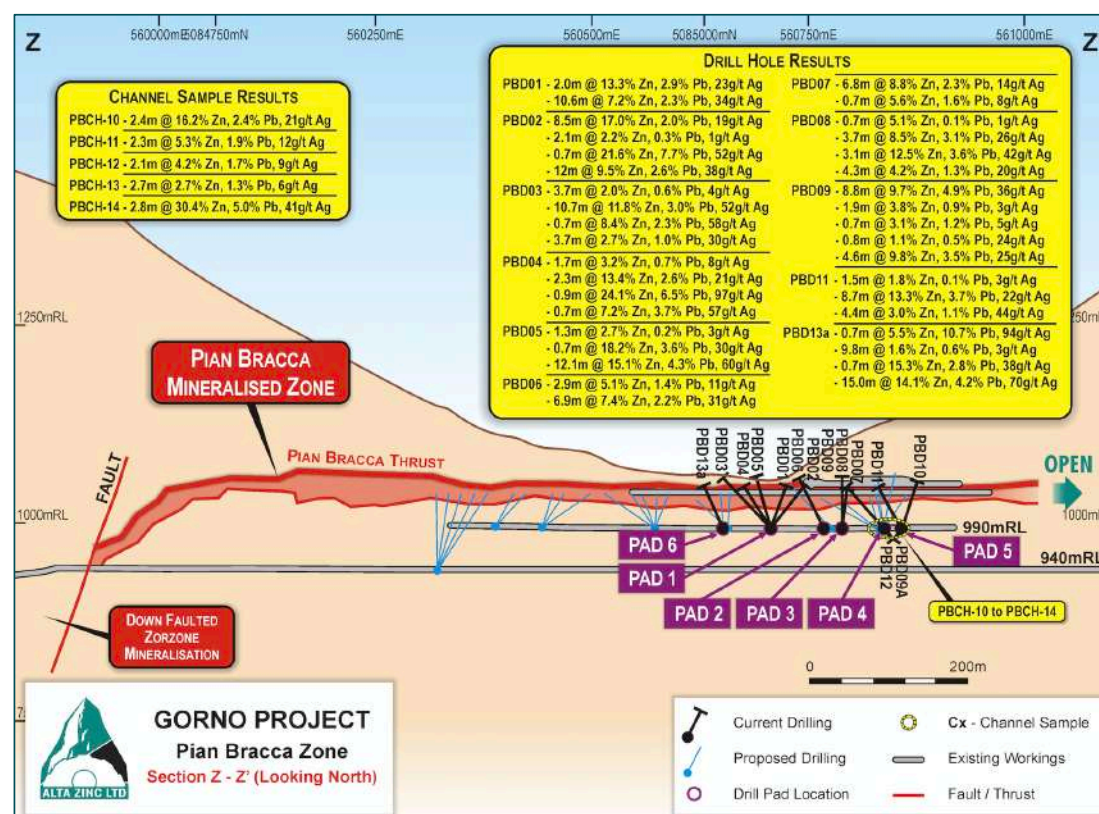
# PIAN BRACCA – DELIVERING EXPLORATION SUCCESS



All holes drilled to date have intersected significant thickness and grades of Zn+Pb mineralisation

## Key Points

- Alta has discovered thick, stacked mineralised lenses
- Significant intersections<sup>1</sup> include:
  - 10.7m at 14.8% Zn+Pb and 52g/t Ag from 58.0m (PBD03);
  - 12.1m at 19.4% Zn+Pb and 60g/t Ag from 59.5m (PBD05); and
  - 15.0m at 18.3% Zn+Pb and 70g/t Ag from 65.3m (PBD13A)
- Thrust and stratabound lenses, open in all directions
- Untapped exploration potential demonstrated next to old workings
- Channel sampling is a highly effective drill targeting method
- Excellent rock conditions with surface access and underground development in place
- Mineralisation open in all directions



1. ASX Releases during 2019 & 2020

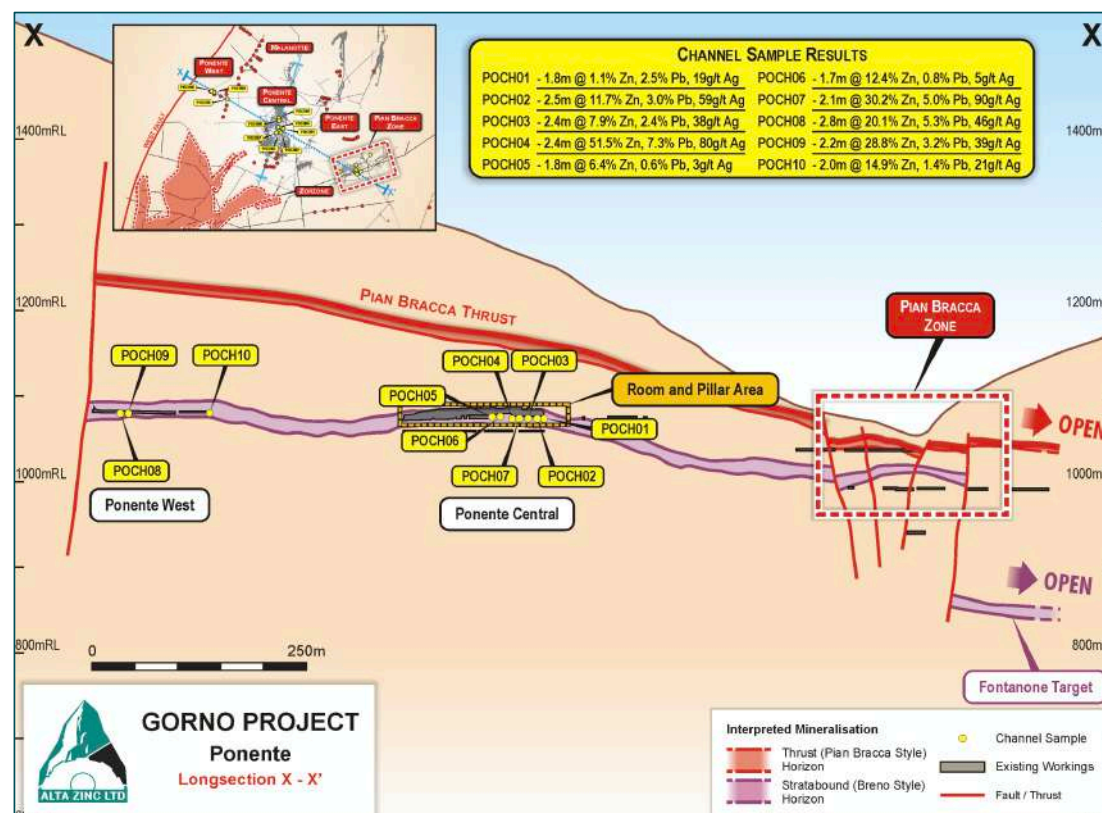
# PONENTE - A NEW HIGH-GRADE EXPLORATION ZONE



## High grade channel samples in a zone with proven mining prospectivity

### Key Points

- Ponente is another exciting high grade exploration zone
- Alta channel sampling<sup>1</sup> has demonstrated high grades
  - 2.4m at 58.8% Zn+Pb and 80g/t Ag (POCH04); and
  - 2.2m at 32.0% Zn+Pb and 39g/t Ag (POCH09)
- Historically mined stratabound mineralisation up to 10m height
- Exploration confirms potential for both stratabound and thrust mineralisation, consistent with Pian Bracca
- 850m of potential strike extent within structural corridor and open in all directions
- Significant mineralised pillars remaining in the mined area

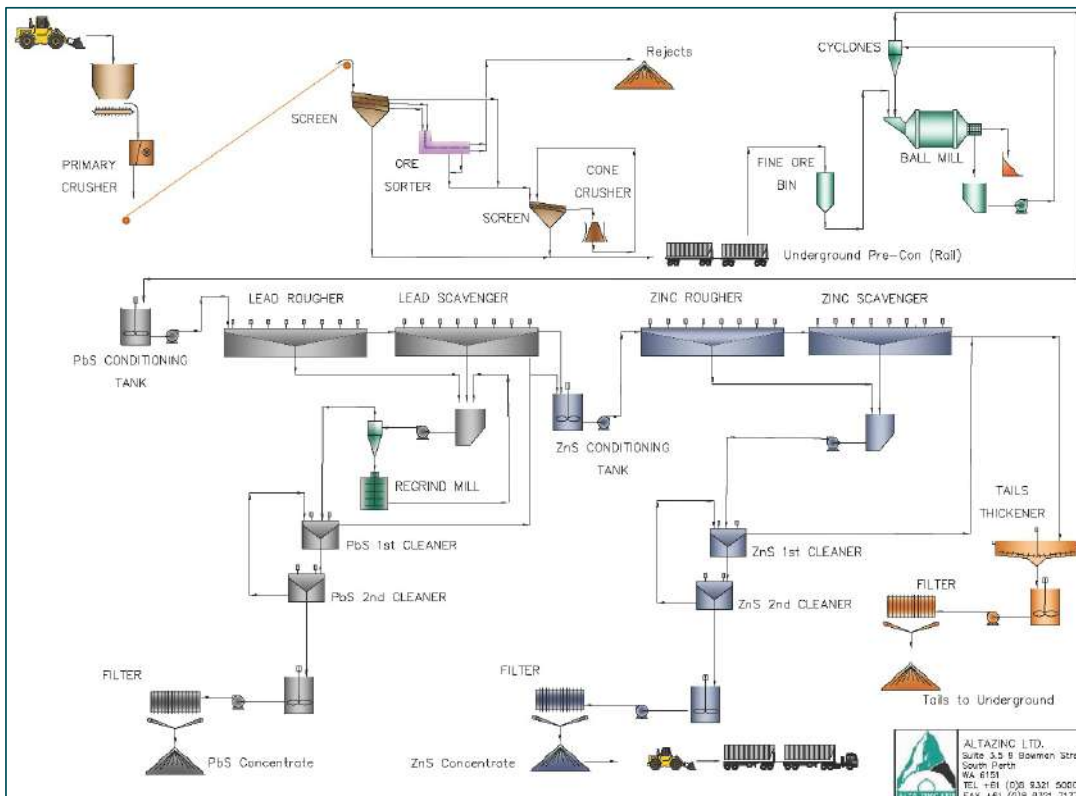




# EXCELLENT METALLURGY



Gorno will produce some of the cleanest and highest grade concentrates available globally



## Simple metallurgy, clean and high grade conc.

- Concentrate recoveries of 96% for zinc and 74% for lead
- Zinc concentrate grade of 63.3% Zn (1.66% Si and 0.62% Fe)
- Lead concentrate grade of 75.8% Pb with 810g/t Ag
- Exceptionally low impurities in both concentrates

## Straight-forward processing route

- Excellent liberation at a coarse grind (p80 at 120 $\mu$ m)
- Easy comminution (low bond work index of 11.65 kWh/t)
- Detailed lab and pilot plant testwork
- Additional opportunities for further optimisation
- Processing route was historically in operation and proven at Gorno

# STRONG LOCAL AND GOVERNMENTAL SUPPORT



## Support at all levels to reopen the Gorno Mine



### Published in Araberara Newspaper – 21 February 2020

*"We are sure that a project for the development of a mine, involving also in the area of Gorno municipality, can be considered unique and it has an enormous interest for the territory and its residents; Conscious of what above, the administration awaits positive developments of the situation, ensuring in any case, as usual, the maximum effort and every kind of cooperation to Alta Zinc"*

*By Municipality of Gorno, The Mayor, Giampiero Calegari*

### Published in Eco di Bergamo Newspaper – 10 January 2020

*The wish is unanimous everywhere around Arera mountain. One of all, the hope that "satisfactory quantities of mineral can be found, so that the mines can be reopened soon".*

*The mayors of Gorno and Oltre il Colle, the two municipalities on whose territory the mines have been closed since 1980 and that the Australians of "Alta Zinc Ltd" say they are ready to reopen as soon as they have mapped out the deposit to be mined, they say "Well happy if it reopens".*

*The jobs that could be created by mining and the economic benefits to the territory cannot be denied. The mayor of Gorno, Giampietreo Calegari, who since August is also president of the Comunità Montana Valle Seriana, is said to be "very willing to give a hand from all points of view, in case Australians believe that the exploitation of the mines is economically advantageous".*

*The Oltre il Colle mayor, Giuseppe Astori, also says "We all hope, that a positive outcome will be achieved. We have recently met the new director of the Australian company - explains Astori - who has shown himself sensitive to our positions, there is a willingness to collaborate".*

***This is a mining area where local families worked for generations at the Gorno mine (1883 – 1980)***

# TIMELINE TO PRODUCTION



## Exploration growth leveraging de-risked project development

GORNO PROJECT DEVELOPMENT		DE-RISKED	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q4 2023	Q4 2023	Q1 2024	STATUS
PERMITTING	ESIA & Baseline Data Collection	✓																		Achieved
	Environmental Monitoring	✓																		In Progress
	Surface Access Permission	✓																		Achieved
	Mining Licence Renewal																			On Schedule
	Surface Facilities Application																			To Do
TECHNICAL	Geological Understanding	✓																		Deep Knowledge
	Resource Growth																			In Progress
	Mine Design & Scheduling	✓																		PFS Level (Zorozone)
	Geotechnical & Sub-Surface Assessment	✓																		UG Developed
	Concentrate Market Review	✓																		Achieved
	Metallurgical Testing & Flow Sheet Definition	✓																		PFS Level
	Definitive Feasibility Study																			To Do
	Plant FEED																			To Do
IMPLEMENTATION	Infrastructure, Supply Chain & Logistics	✓																		DFS Level
	Underground Mining (2015-2017)	✓																		Achieved
	Surface Access Established	✓																		Achieved
	Construction Period																			To Do
	Production Commences																			To Do Q1 2024



# THE GORNO MINE TEAM



**Geraint Harris**  
*Managing Director*

Mr Harris is a Mining Engineer with over 24 years of multi-disciplinary mining industry experience. He has worked across multiple jurisdictions and was part of the team that brought the Lisheen (Zn&Pb MVT deposit) mine into production. Geraint's most recent role was the CEO of Adriatic Metals PLC (ASX: ADT).



**Marcello De Angelis**  
*Director, Italian Subsidiaries*

Dr de Angelis has over 50 years' experience in metals exploration and development worldwide. He held senior corporate positions with ENI and was Managing Director of Pestarena Gold Mines (Italy). He is a Chartered Geologist of the Order of Geologists in Italy and a member of the Association of Mining Engineers, Italy.



**Simone Zanin**  
*Senior Geologist- Italy*

Mr Zanin has a Master's Degree in geology and has held global technical and management roles (Africa, Asia, Europe), across exploration and production mining environments. He has a senior leadership role for all aspects of the geological studies at Alta's Italian Projects.



**Erika Belotti**  
*Administration and Regulatory, Italy*

Ms. Belotti hold degrees in foreign languages and literature and has deep experience of the commercial and regulatory operating environment in Italy. As the key liason with stakeholders, regulators and external consultants Ms Belotti's leadership is integral to implementation of Alta's Italian work program.



**Alexander Burns**  
*Executive Chairman*

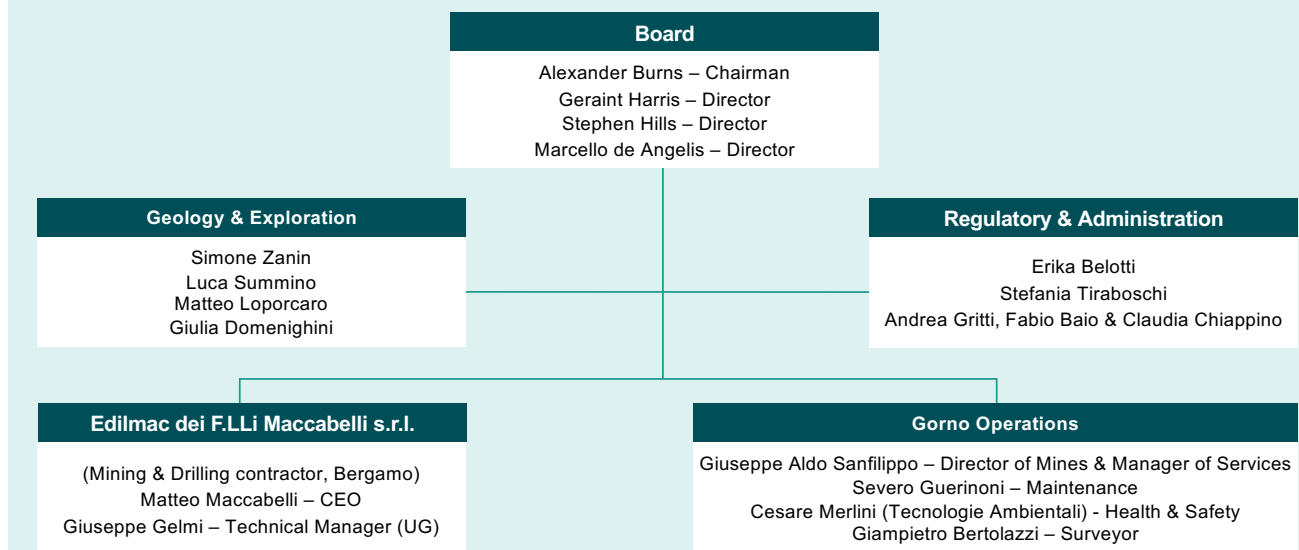
Mr Burns has over 30 years' resource industry experience of executive roles. Previous roles include Managing Director of Sphere Minerals Limited and Non-executive Chairman of Shield Mining Limited.



**Stephen Hills**  
*Finance Director & Company Secretary*

Mr Hills has over 25 years' experience in senior finance roles in public companies listed on the ASX and TSX, 16 years of which have been in mining companies with gold, nickel and copper assets.

## ENERGIA MINERALS (ITALIA) SRL (100% subsidiary of AZI)



# EMERGING EUROPEAN METAL PRODUCER



**Positioned to become a long-term and strategic supplier of clean zinc and lead concentrates in Western Europe**



Results confirm thick, high-grade zinc and lead MVT mineralisation with further upside



Drill program to expand the Resource and underpin a mine restart. Existing 3.3Mt JORC Resource<sup>1</sup>



Advanced permitting; supportive government and local community who want the mine re-opened. Permits expected Q2 2022



Production by Q1 2024, risk and timeline reduced by leveraging detailed technical studies and existing UG development



Established mine access and development, surface infrastructure, logistic network - supporting a low capex restart



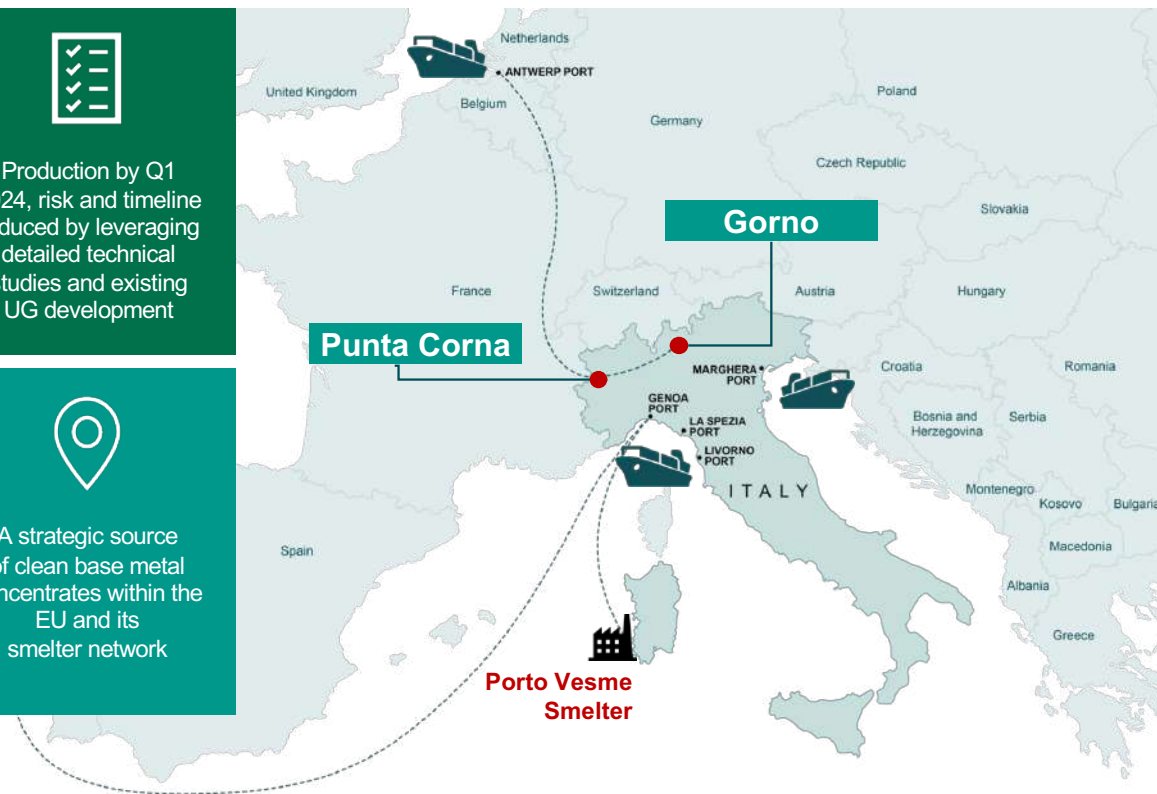
Long mining history (1883 to 1980: ave. grade of 14.4% Zn), simple metallurgy producing clean concentrates



Proven board and management team with relevant MVT zinc exploration and production track record



A strategic source of clean base metal concentrates within the EU and its smelter network



1. See Company ASX Releases: 2.1Mt Indicated and 1.2Mt Inferred at a combined grade of 4.9% Zn, 1.3% Pb and 27g/t Ag

# CONTACT



## Alta Zinc Limited

Level 3, Suite 3.5  
9 Bowman Street  
South Perth, WA 6151  
Australia

Tel: +61 (0) 8 9321 5000

Email: [info@altazinc.com](mailto:info@altazinc.com)

[www.altazinc.com](http://www.altazinc.com)



# COMPETENT PERSONS STATEMENT



Information in this presentation that relates to Exploration Results is based on information prepared or reviewed by Dr Marcello de Angelis, a Competent Person who is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM). Dr de Angelis is a Director of Energia Minerals (Italia) Srl and Strategic Minerals Italia Srl (controlled entities of Alta Zinc Limited) and a consultant and option holder of Alta Zinc Limited. Dr de Angelis has sufficient experience which is relevant to the styles of mineralisation and types of deposits under consideration and to the activities 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”. Dr de Angelis consents to the inclusion in this release of the matters based on their information in the form and context in which it appears.

The Information in this presentation that relates to the Exploration Results for the Gorno Project is extracted from ASX Announcements filed by Alta Zinc Ltd.

The above announcements are available to view on the Company's website at [www.altazinc.com](http://www.altazinc.com). The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant original 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 relevant original announcement.

The information in this presentation that relates to Mineral Resources is based on, and fairly represents, the Mineral Resources and information and supporting documentation extracted from the report, which was prepared by Mr Stephen Godfrey as Competent Person in compliance with the JORC Code (2012 edition) and released to ASX by the Company on 8 December 2017. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original Announcement. All material assumptions and technical parameters underpinning the Mineral Resource estimates in that previous release continue to apply and have not materially changed. 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 Announcement.