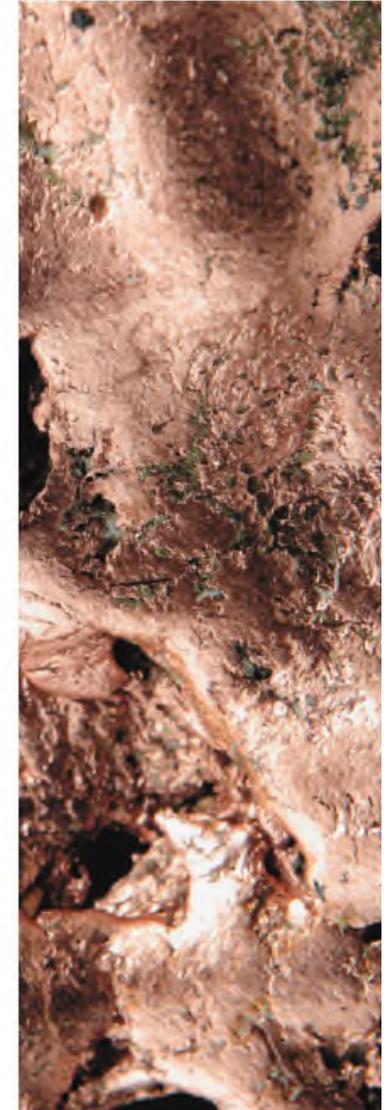


**Revolutionising the
hydrometallurgical
extraction of base metals
at the mine for
the global mining industry**



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Introduction

Commercialising breakthrough mineral processing technology

Alexander Mining plc is an AIM quoted mineral processing technology company with a reputation for strong technical management, allied with financial markets' expertise.

Its core asset is its intellectual property:

Metaleach™

MetaLeach® is our wholly owned subsidiary and will revolutionise the extraction processes for many base metals deposits by reducing costs, enhancing operating margins and increasing production.

Ammleach.

Our core technology has major economic, technical and environmental benefits. Unlike some new technologies, it requires no special purpose built equipment. The proprietary ammonia process selectively extracts base metals from ores under ambient temperature and pressure conditions.

Hyperleach™

A proprietary process which utilises chlorine based chemistry for the extraction of metals, especially copper, zinc, nickel, cobalt, molybdenum and rhenium from sulphide ore deposits and concentrates.

Shares issued:	861,910,288
Management, directors' options @ 4.92p	12,900,000
Warrants @ 0.45p until 5 Oct. 2018	35,000,000
Bonus warrants @ prices of 0.10 - 0.20p	89,042,341
Brokers warrants @ 0.40p until 5 Oct. 2018	7,359,375
@ 0.10p until 20 May 2021	50,000,000
Recent share price:	0.22p
Market capitalisation:	£1.9m
AIM Listing code:	AXM
Ownership: Private investors	50%
Leon Hogan	5%
Management and insiders	<2%
Cash (placing for £500,000 gross in May 2016)	~ £460,000



- **Continuing confidence in the prospects for our technologies**
- **Continued success in registration of patents**
- **Company well financed and reviewing complementary opportunities in the Mining Sector**

The background

Mining industry & technology

The most important technological invention of the last century?

- Whatever it is, they're all dependent upon metals and minerals!
- Arguably, froth flotation should be in No. 1 spot – the mineral processing method used to produce sulphide copper, zinc, lead and nickel concentrates for metals production. Process invented over a century ago in the Broken Hill district of South Australia.

What about oxide ores - a major potential source of base metals in the 21st century?

..... We believe the best potential is for **Hydrometallurgy** - an efficient and environmentally friendly leaching technology



Source: Rio Tinto

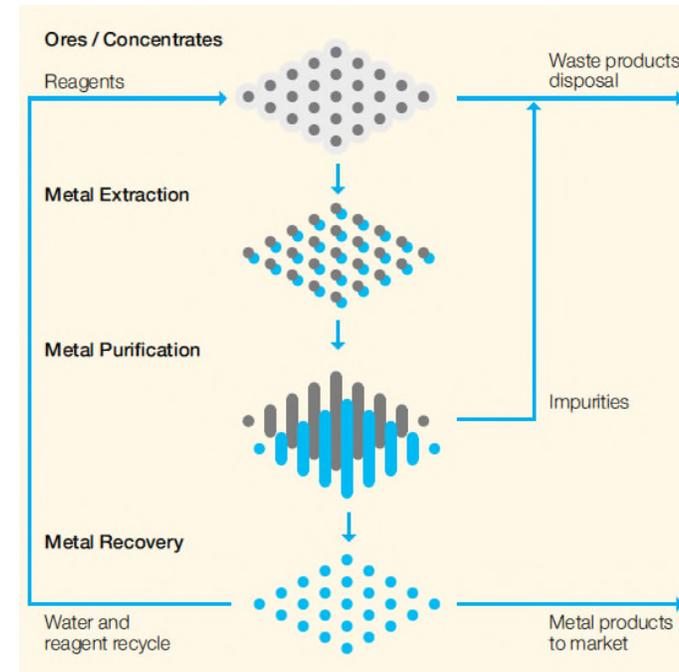


Source: Rio Tinto

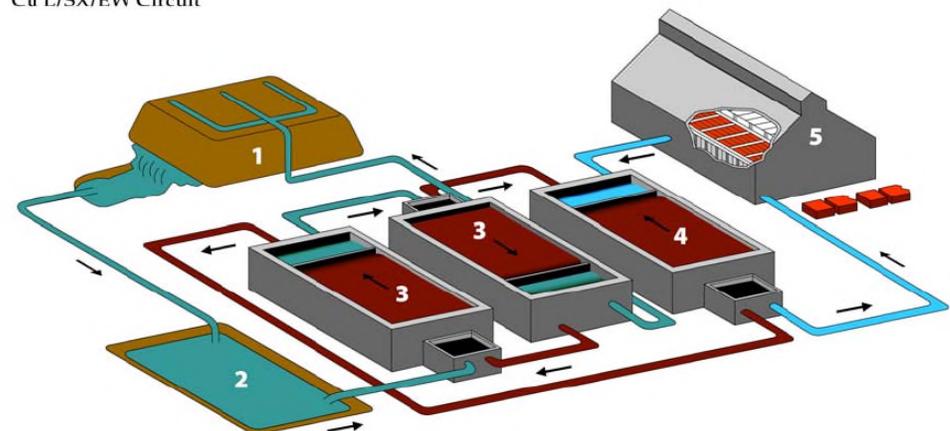
The background

Hydrometallurgy process has major benefits

- Higher returns by increasing mine-site metal product value.
- Can makes uneconomic ore bodies economic.
- No associated concentrate costs, ie: transport, smelter & refinery charges (which can be > 40% of contained metal value).
- Valuable metal by products can be credits, unlike concentrate producers.
- **Environmental benefits significant**



Cu L/SX/EW Circuit



Major operational and economic advantages

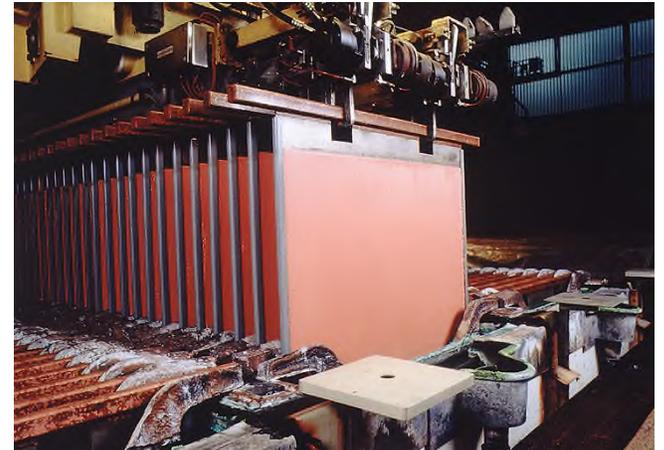
- Alkaline/ammonia leach process at **ambient pressure and temperature**
- **Proprietary two stage leaching process**
 - Ore specific pre-treatment stage
 - Heap or tank leaching
- **Proprietary solvent extraction step to avoid ammonia carry-over into electrolyte**
- **Greatly reduced AmmLeach® reagent consumption** of high-acid-consuming ores means significant capex and opex savings
- **Clean target metals PLS**, unlike acid leach
- **Uses conventional equipment**
 - Electro-winning is identical to conventional acid circuits
 - Direct replacement for acid leaching in current operations
 - Minimal changes to plant; higher organic transfer efficiencies requires smaller plant
- **Environmental benefits**
 - Reduced transport/shipping impact and costs
 - Minimal likelihood of Acid Mine Drainage (AMD)

Major economic and environmental benefits

- Major capital and operating cost savings (typically 30-40%) possible due to magnitude of reagent (ammonia cf acid) consumption differential.
- Aside from the very substantial capital and cost savings, AmmLeach® has several major operational and environmental advantages over conventional acid leaching.
- Much simpler process circuits because of the low level of impurities in the leach solutions, and hence lower capital to clean up.
- Significantly lower decommissioning/closure costs – no acid mine drainage liability.

The following metals are main targets for the AmmLeach[®] process:

- Copper and Copper/Cobalt oxide deposits
- Zinc oxide (non-sulphide) deposits
- Gold/Copper oxides and Silver/Zinc oxides (alkali leaching)



Geographic diversification is offered as the countries with the most prospective geology for hosting high acid consuming copper (Cu) and zinc (Zn) oxides are:

- Turkey (Zn, Cu)
- Australia (Cu & Co)
- DRC (Cu, Cu/Co)
- Zambia (Cu & Co)
- Peru (Cu & Zn)
- Chile (Cu)
- Mexico (Cu & Zn)
- Central America (Zn)
- USA (Cu & Zn)

Testwork done on many different opportunities worldwide



One of the key benefits of the AmmLeach® process is that, unlike some new technologies, it requires no special purpose built equipment.

The process utilises ammonia based chemistry to selectively extract metals from ores under ambient temperature and pressure conditions.

- Sulphides >95% of world primary zinc production but average head grade < 7% zinc
- Conventional treatment is to produce concentrate and ship to smelter - Roast – Leach - Electrowin process

Oxides considered commercially untreatable. However, in general, zinc oxides represent the highest grade undeveloped near surface base metal deposits

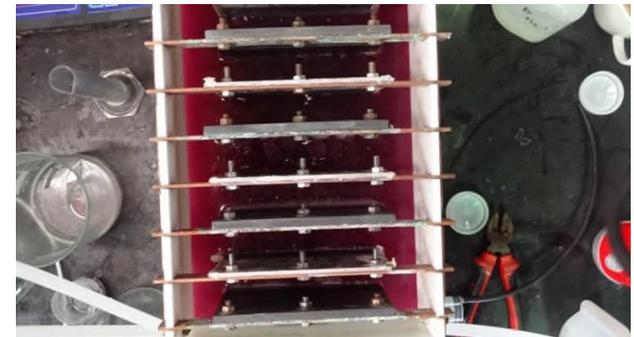


- Economics dictate direct shipping oxide ores limited to grades >20-25% zinc
- Large tonnages of <20% ore exist, especially in Turkey with world class resources
- Significantly lower cash operating costs, in lowest quartile (<US\$0.40/lb), forecast
- Increase reserves and mine life by processing substantial 'low' grade ore (<20%)

Business development

Zinc Oxides

- Production of high purity LME grade zinc cathode – potential for well over 30ktpa
- Successful batch test 2014 in Perth, using conventional equipment, at ambient temperature & pressure to produce zinc cathode.
- First successful test of AmmLeach[®] technology for zinc and the first solvent extraction of zinc from primary oxide ores using ammoniacal leaching.
- Recycles reagents



Summary

- Hydrometallurgical extraction of base metals at the mine is ultimate production route
- Ongoing discussions about using AmmLeach® in various countries
- Focused on royalty and/or licence fee structure, or minority project interests
- Company well financed and reviewing complementary opportunities in the Mining Sector



Enquiries

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