

Copper, Chile & Antofagasta plc

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Group

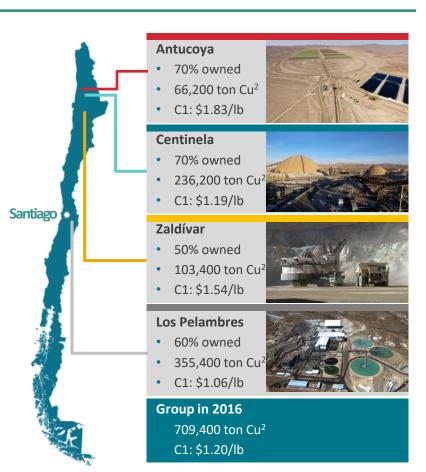
- Market cap¹: \$10.2 billion
- Strong balance sheet
- 65% owned by Luksic Group, 35% free float
- FTSE 100

Mining division

- Top 10 copper producer
- Gold and moly by-products
- 4 operations in Chile, one of the world's most developed and stable mining locations
- Significant potential production growth

Transport division

- Provides rail and road cargo services in Chile's Antofagasta Region
- 1. As of June 30 2017
- 2. Production 2016, 100% basis

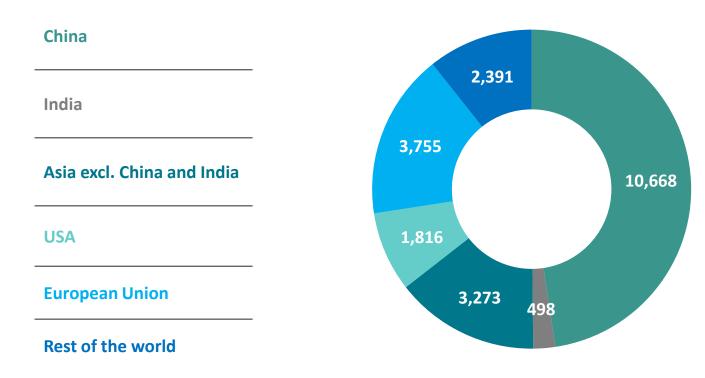




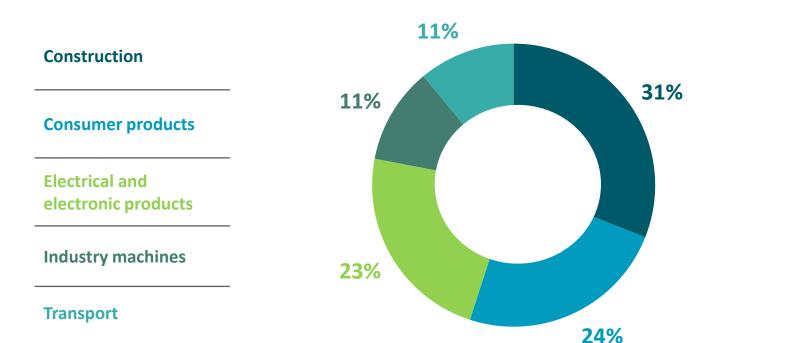


Top-10 global copper producers, based on 2016 consolidated production ('000t)









Copper market fundamentals – demand

Growing demand

- China consumption growth sustained through the transition to a "New Normal"
 - Demographics urbanization & higher income levels
 - Consumption led growth also copper intensive e.g. household appliances
- Infrastructure
 - Domestic grid, rail, road
 - One belt One road
 - India and other EM to follow (pace unknown)
- Favorable impact of technology disruptions
 - Early days to fully quantify the impact of clean energy and transport technologies but big implications for the market



Demand expected to continue growing @ 1 to +2% p.a.

NTOFAGASTA PLC

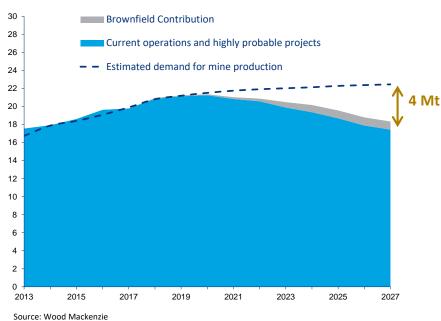
Copper market fundamentals – supply



Constrained supply

- Grade decline of existing operations
- Technical challenges on brownfields
- Light pipeline of new projects
- Limited success in new sizable discoveries
- Recent downturn and prevailing uncertainty drives caution on capital allocation
 - Regional geopolitics
 - China macro imbalances
 - Risk of protectionism disrupting trade and economic growth

Expected copper supply



Copper growth expected to be supply constrained

Mt Cu

 $\mathbf{1}$

Copper price-Outlook positive but expect year-on-year volatility

- Market deficit possibly earlier than anticipated before
- Miners inability to respond quickly support prices
- Rate of supply growth slowing with only few committed major greenfield project
- Increased scrap availability, but China concerned with imports and recycling environmental impacts
- Believe new price floor probably established







Chile offers a supportive mining environment





- History of stability and strong institutions OECD country
- Solid public finances with low national debt (21.3% of GDP¹)
- 29% of global copper production and 30% of world reserves

Challenges

Chile

- Moving from middle income to high income economy
- Dealing with greater social expectations and demands on business
- Improving labor productivity through better access and quality of education

Mining challenges must be addressed

Safety Embedding a culture of zero fatalities **Productivity** Labour and capital Deterioration of the quality of the deposits Lower grades, increased rock hardness and impurities, depth and geographical difficulties

Availability of water Drawdown of aquifers, climate change effects, increased population, limited permitting Increasing demand for energy Power-intensive processes due to declining grade and rock hardness, use of desalinated water

Regulatory and environmental changes Frequent amendments to labour, tax, environmental and other regulation **Resistance to mining activity** Greater environmental and social awareness

Mining industry must address these issues to maintain competitiveness



Productivity, a sustained effort **People** - Attract and retain the best talent in key disciplines.

Organization - Simplification of Support Functions & Clear Accountabilities in Operations .

Assets – Release latent capacity focusing on maintenance as the key driver.

Efficient capital allocation

Innovation, *as a competitive advantage* **Sharing infrastructure -** Internal District synergies & assess opportunities with third parties. **Phased project development** - Modular growth and sequencing of investment.

Focus on core business - Enable third party investment in non-core infrastructure e.g. water, energy, acid.

Strategic choices for innovation - Sulphides Leaching, Tailings Management, Mass Material Movement.

Internally sourced innovation - Internal Knowledge Sharing Platform: InnovaMinerals.

Externally sourced innovation - Open Innovation Platform - Foundation Chile.

Technology Road Map - To steer adoption of and integrate available technology solutions . Prioritize data driven decision making and moving people from remote sites.

Productivity improvements embedded in our organization



Cost and Competiveness Programme (CCP)		2016 Group competitiveness improved to the 2 nd cost quartile ⁽¹⁾	
	Services Productivity Contractors productivity	300 102 128 152 250 - - -	
Ø	Operating & maintenance management <u>Asset</u> productivity	200 - Group before CCP 150 - 131c/lb	/
	Corporate & Organisational Effectiveness Labour productivity	100 - 50 - Group 120c/lb	
	Energy Efficiency Consumption efficiency	0	

1. Competitiveness measured in terms of 2016 net cash costs (including by-product credits). Source: Wood Mackenzie

Cash costs fell by 15-20% in 2 years despite a 12% decrease in grade



District view and planning to ensure efficient use of infrastructure capital

- Strong optionality allows development of new projects e.g. Centinela district with Encuentro Oxides project
- Combined water supply for Centinela and Antucoya
- Development of shared port infrastructure

✓ Partnerships -public/private- to optimize investments

• e.g. desalination plant at Pelambres with joint water intake sizing for potential community supply private concession



Consolidation of mining properties and sharing infrastructure of new projects





Thickened tailings

- Large scale use at Centinela
- Pioneer in copper at current scale
- Solid content up to 70%

Use of seawater

- Pioneer in the use of untreated seawater
- First at Michilla (1990s)
- Now at Centinela and Antucoya



Antofagasta has been a pioneer in innovation





El Arrayan windfarm

Solar plant at Centinela

Promotion of renewables - wind and solar

- In use at Los Pelambres and Centinela
- Close to 50% of Los Pelambres' power consumption comes from clean energy

Community relations - Somos Choapa

- An innovative relationship model
- Implemented in Los Pelambres
- Based on participation and transparency



Committed to sustained value creation



Emphasis on disciplined production



ocus on cost and erating reliability



Creating long term value through sustainability & innovation



Positioned for growth

- Only profitable production
- Every tonne must make an earnings contribution

- Protect margins
- Embedded Cost & Competitiveness
 Programme
- Releasing spare capacity

- Community engagement model
- Social licence to operate or grow
- Embedded practice of innovation

- Positive copper outlook
- Long term investment criteria
- Disciplined capital allocation
- Advance organic growth options



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