

The Emerging Force in the Premium Zircon Industry

2020 Ruidow Zirconium Conference

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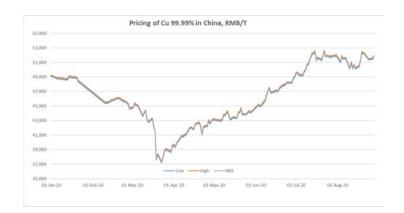
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High Volatility of Commodity Pricing in 2020







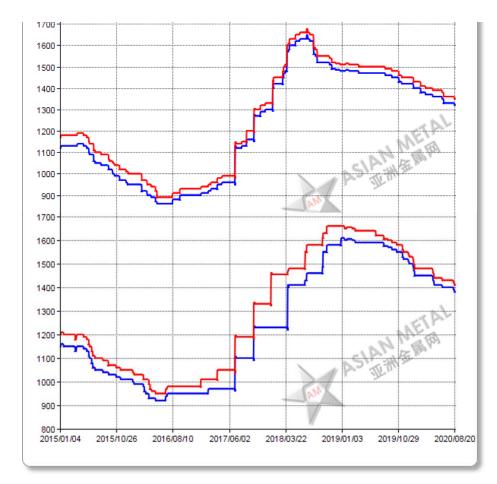




GLOBAL ZIRCON MARKET







Zircon Sand Indonesian Zr(Hf)O2 66%min CIF China USD/mt

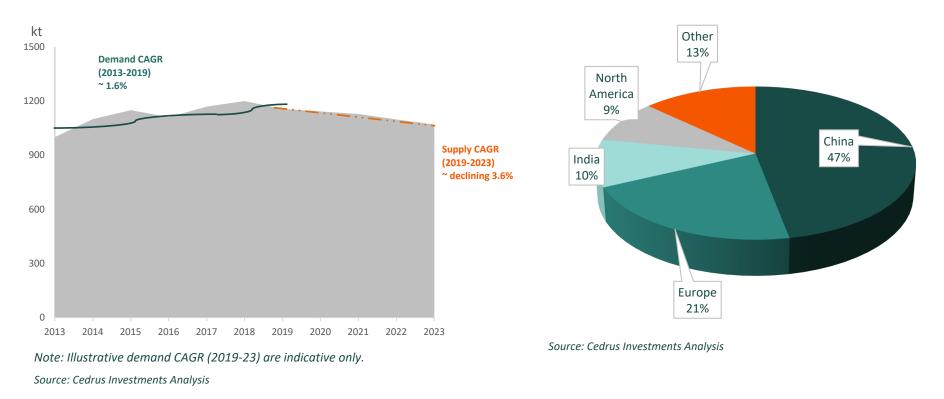
Zircon Sand Australian Zr(Hf)O2 66%min CIF China USD/mt

Zircon Scarce & Concentrated Supply, Boosting Price



GLOBAL ZIRCON SUPPLY AND DEMAND OUTLOOK

GLOBAL ZIRCON DEMAND BY REGION (2018)



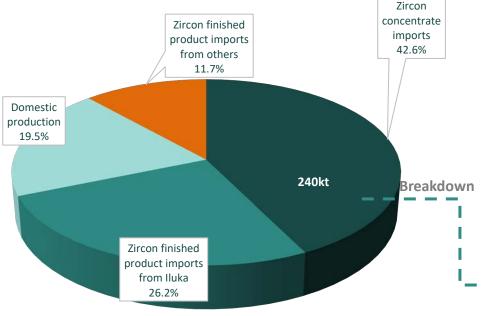
Analysts expect a substantial supply short-fall to emerge, supporting a robust zircon price environment in the coming years.

China Zircon Demand



CHINA ZIRCON DEMAND BY SOURCE OF SUPPLY

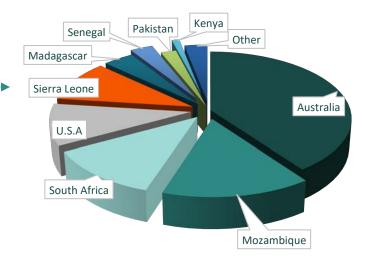




- Aprox 50% of global supply
- Zirconium reserves rank fifth globally (0.7% world wide)

CHINA ZIRCON CONCENTRATE IMPORTS BY COUNTRIES

2018 Total Zircon Concentrate Imports ~ 240 kt

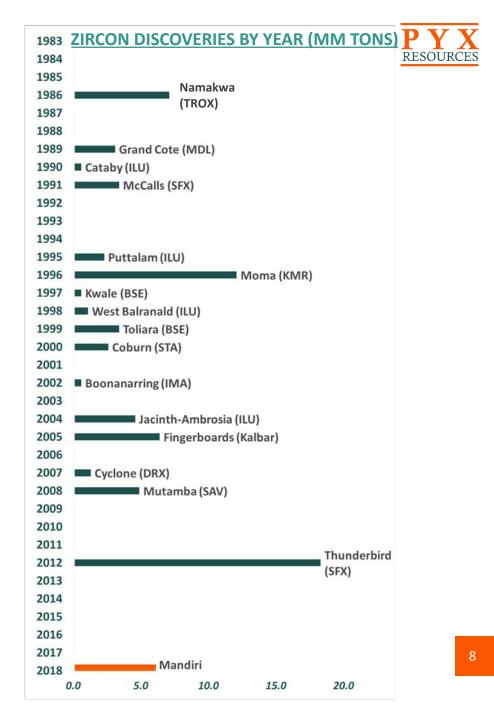


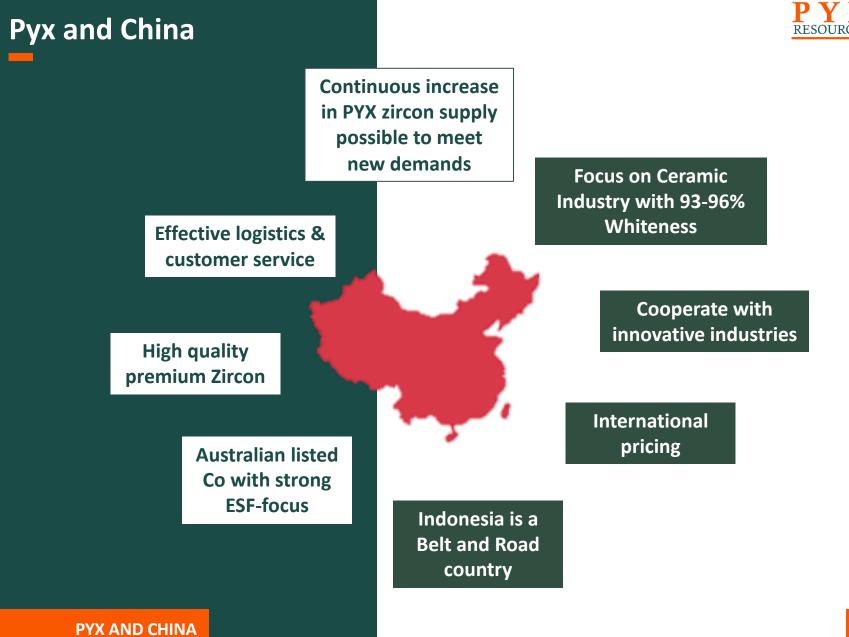
Source: China Industry Information Website: www.chyxx.com, Company Analysis

No New Zircon Discoveries Since 2012

- Pyx's Mandiri project in Indonesia is the 5th largest mineral sands in the world
- Biggest zircon discovery in the world since 2012.

GLOBAL SUPPLY SITUATION





2020 Zircon Market Dynamics



Supply

- Pyx's Mandiri deposit is the only major mineral sands discovery since 2012.
- Global supply is highly concentrated with top 5 producers controlling over 70% of world production.
- Lack of supply potential for the foreseeable future and the future demand may exceed supply.
- Grade of existing deposits is declining and USGS estimates global zircon reserves reduced from 78 Mt to 62 Mt.
- A significant proportion of global zircon supply between 2016 and 2019 are from diminishing inventory, leading to a potential shortage of supply even if demand remains at current level.

Demand

- China = 50% of worldwide demand.
- Global zircon milling mostly focused on meeting demand from the ceramics industry (54%), followed by foundry (14%) and refractory (11%).
- Consumption of zircon by other novel applications such as medical implants, zirconium based chemicals (for electronics, fiber optics etc), and extraction of zirconium metal for corrosion resistant alloys and nuclear reactor cores and rods are growing in importance.
- Global trade tensions and COVID-19 pandemic had relatively minor impact on zircon demand with resumed operations in China leading to substantial demand for high-grade zircon.

2020 Chinese Market Dynamics



Application	Market Dynamics
Ceramics	 Output and export of ceramic tiles in China is declining due to global economic environment, real estate policy, consumption upgrades and demand shift. However ceramic sanitary ware in China is growing at more than 6% p.a. China's total ceramic export value over US\$ 12.5 billion.
Foundry	 China's foundry production output to 41 mt of iron cast products and 7.3 mt of aluminum cast products, representing a 48% and 37% of global output, respectively. China's rapid foundries and casting industry growth is driven by the automotive industry, and sectors such as aerospace, high-tech ships, medical devices and agri machinery. China represents 90% of the US\$4.2 billion growth in the foundry market.
Refractory	 Zircon can be used as a neutral type of refractory, accounting for 60% of the total industry share which was over USD 30 billion in 2018. The market for refractories is anticipated to reach USD 41 billion by 2025, registering a CAGR of over 4%. Strong product demand from aerospace, electrical, automotive, glass, cement industries is expected to drive refractories market size globally.
Chemical	 Zirconia and zirconium based chemicals are widely used for pigment, electronics, catalysts, fiber optics, and water treatment. Growing importance with higher market share growth than other markets

Alluvial Deposits in Kalimantan



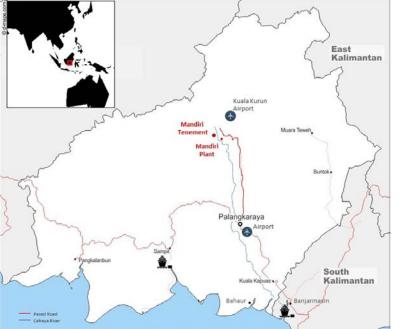






Strategic Location









OUR ASSET

Producing asset since 2015





OUR ASSET







ZrO2+HfO2	66.0% +
TiO2	0.06 - 0.08%
Fe2O3	0.02 - 0.05%
Al2O3	0.2%

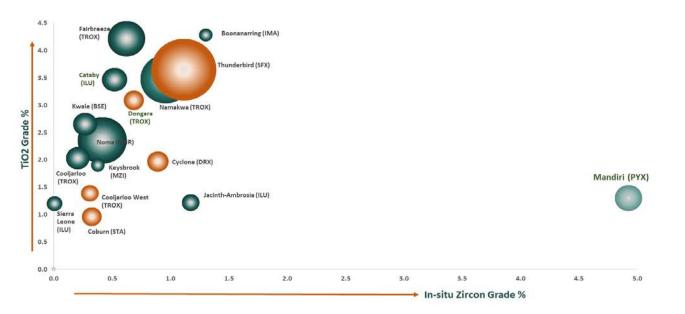
Mineral Resources above 2% HM lower block cut-off grade (unrounded)

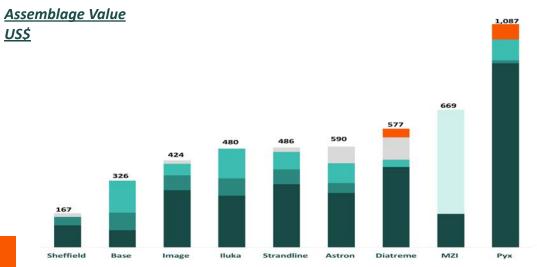
Area	Category	Tonnage (Mt)	HM (%)	Slimes (%)	Oversize (%)
Mandiri	Inferred	126.3	7.43	8.98	16.14

Assemblage of Ore and Finished Products

	Mining		Finished Product		
	Mined HM	Assemblage	Finished Product	Assemblage	
	(tons)	(%)	(ton)	(%)	
Zircon	64	64%	64	97%	
- of which Zirconium	43	43%	43	65.5%	
- of which Silica	21	21%	21	32%	
Rutile	8.5	8.5%	0	0%	
Ilmenite	9.5	9.5%	0	0%	
Other	18	18%	1.7	3%	
Slime/OS	0	0%	0	0%	
Total	100	100%	65.7	100%	

Pyx is a Clear Outlier in Terms of Zircon Grade





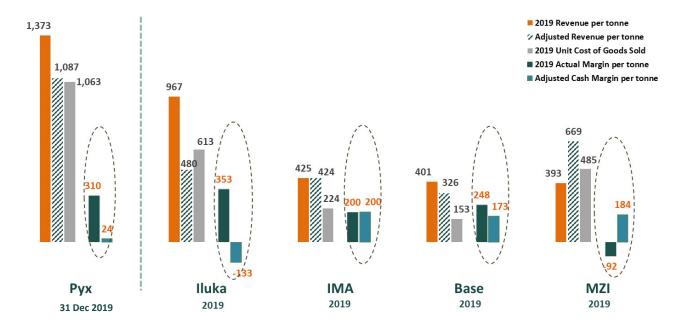
OUR ASSET



Pyx Superior Cash Margins are Sustainable Long Term



ACTUAL MARGIN AND ADJUSTED MARGIN COMPARISONS OF MAJOR ZIRCON PRODUCERS (in US\$)



Note: Adjusted Revenue calculated as the weighted average value on mineral components disclosed on each company's 2019 Resource Statement.

Source: Public Filings, Cedrus Investments Analysis

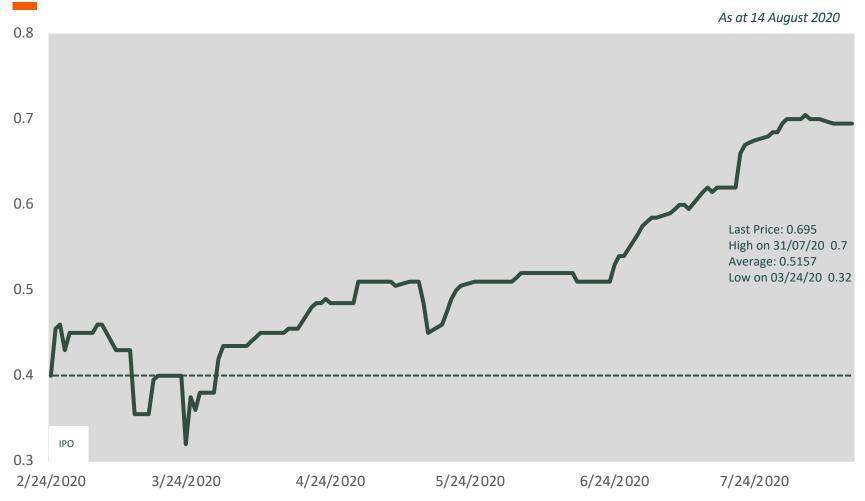
Additional Upside Potential in the Mid Term





Strong Price Performance post IPO





Note: PYX commenced trading on the National Stock Exchange of Australia (NSX) on 25 February 2020.



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Competent Person Statement and Cautionary Note



The information in this report that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Dr John Chisholm, a Competent Person who is a Fellow of The Australasian Institute of Mining and Metallurgy. Mr Chisholm is engaged by Pyx and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity 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. Mr Chisholm consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

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