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## **PYX Resources** Continued progress for PYX and its zircon production in Indonesia

PYX has today published its interims for the period ending June 2023. PYX is a producer of high-grade zircon and is readying itself to export its stockpiled ilmenite and rutile (titanium oxide mineral sands), from its Mandiri operation in Indonesia. The numbers show increasing production and an ongoing improvement in underlying profits despite a slight reduction in the zircon price received. With increasing production (we expect 13kt zircon by the end of the year rising to 18kt next year before the expected addition of expansion from Mandiri and first production from Tisma); the addition of the sales of titanium oxide mineral sands (rutile and ilmenite); and the delivery of production into a robust mineral sands market; we expect PYX to consistently improve on its revenue and increasing amounts of underlying EBITDA (and cash) improvements. PYX remains debt free and is prudently looking to expand production organically and in stages. With increased production we anticipate PYX becoming a producer of global importance for zircon. We see fair value at 82p after taking a conservative view on the pace of forward developments.

Key production statistics for the half year are presented below in Table 1. Zircon production increased to 5.7kt (+33% on the same period last year) which helped stabilise sales revenue after realised prices fell to \$1,927/t from \$2,749/t and it also reduced cost of production \$/t as economies of scale came into play. EBITDA decreased to \$(9.8m) after non-regular costs and non-cash costs were included but underlying EBITDA increased slightly to \$131k. Cash levels were maintained at \$7.2m. The accounts show ongoing improvements as PYX expands its Mandiri operation.

Table 1: Key statistics HY 2023(ending June 2023)				
	HY 2023	HY 2022	% change	FY 2022
Zircon produced (kt)	5.7	4.3	33%	9.1
Zircon sales (kt)	5.2	3.9	34%	9.5
Av price sold (\$/t)	1,927	2,749	(30%)	2,457
Sales revenue (\$m)	10.0	10.6	(6%)	22.7
Cash cost of production (\$m)	(8.9)	(7.3)	(22%)	(17.3)
Cash cost of production (\$/t)	1,568	1,880	(17%)	1,913
EBITDA (\$m)	(9.8)	(3.5)	(181%)	(9.3)
Underlying EBITDA (\$m)	0.1	0.1	46%	0.4
Net Loss After Tax (\$m)	(9.8)	(3.6)	(171%)	(9.4)
Net Cash (\$m)	7.2	7.2	0%	7.2

Source: WH Ireland research, PYX Resources

On a forward-looking basis PYX has now cemented its position as a consistent and growing producer of zircon. During the half, PYX has received both an export licence for its ilmenite/rutile mineral sands which were stockpiled and also has had its Tisma exploration and mining licence renewed.

WHI View: Today's news once again demonstrates the progress being made by PYX. Increased production is beginning to produce the expected economies of scale and insulate the company from volatility in the zircon price. We have reset our fair value taking into account todays numbers and see fair value at 82p/sh taking a conservative view on the pace of development and access to capital.

Year end December	2021A	2022A	2023E	2024E	2025E
Revenue (\$m)	12.4	22.7	25.0	48.1	100.7
EBITDA	(4.5)	(9.3)	(11.7)	15.3	54.4
PBT (\$m)	(4.5)	(9.5)	(12.7)	14.3	52.4
EPS (c)	(1.1)	(2.2)	(2.8)	3.2	10.0
P/E (x)	(16.6)	(8.2)	NM	7.3	2.3
EV/EBITDA	N/A	N/A	N/A	9.2	2.6
Net cash (\$m)	6.6	7.2	7.1	18.4	59.8
Net assets (\$m)	83.0	83.6	77.8	93.1	138.5

Source: WH Ireland research

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Share Price (last close)

Ticker	PYX
Index	LSE
Sector	Mining
Market Cap	£120m

## **Marketing Communication**

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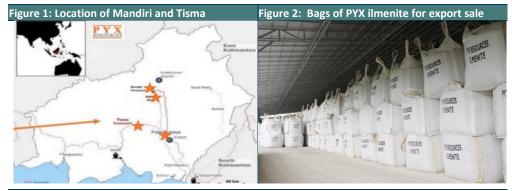
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## 13 September 2023



Source: WH Ireland Research, PYX Resources

### Once again we reiterate the strong investment case we see for PYX

- Strong, scalable production base. PYX has a step-wise plan to take its zircon production to 50kt/yr within 5 years and then higher by staged expansions and the bringing in of a second producing site. There is also production expected from Tisma. PYX has access to large resources (263.5Mt of inferred resources (JORC) with a high assemblage value with the mineralogy mainly zircon – a high value component.
- **High grade**: There are few other high-grade zircon projects in the world.
- **Surface deposits**: Little or no stripping is required and the mineral sands are unconsolidated. Operating costs are low and will fall as production scales up.
- Short time to production fast track: No long construction time simple plant build, fed with material from the mineral resource quickly. Leaves no lasting trace.
- Mineral assemblage sets PYX aside from its peers: PYX's resource base sets it apart from its competitors. These are high-grade zircon deposits compared with their peers Premium zircon – with its low radioactivity (U+Th <500ppm), low alumina and high whiteness attracts a premium.
- Absence of a zircon project pipeline a positive for PYX: The current market value for PYX does not fully reflect the lack of global projects for zircon. With growing demand, an uncertain supply and a poor project pipeline, we expect a robust zircon price for several years to come. It is during these years that PYX will be established as a significant global zircon producer, in our view
- Strong returns: Our simple DCF model returns strong NPVs using a long-term zircon price less than today (we use \$2,000/t). Returns are driven by the grade (high) and capex/opex (low) against our conservative pricing as the mineral sands sector enters a boom. We risk the operations lightly as there is little operational risk with much of PYX derisked by ongoing operations with 0.6x NPV / PE included in our model for capital risk and for the uncertainty over the pace of development. We will look to reduce our risk rating as PYX achieves its milestones.

Asset		\$m	£m*	Risk**	GBp/sh***
Mandiri / Tisma	NPV <sub>10</sub>	877.0	730.8	0.6x	97
PYX Resources	5x PE 2028E	582.0	485.0	0.6x	64
Arithmetic					81
Net cash	WHI Sept 2023e	7.2	6.0	1.0x	1

Source: WH Ireland Research, PYX Resources

\* GB:USD exchange rate 1.2:1. \*\* subjective risk. \*\*\* per share calculations based on 453m shares in issue

We have revised our fair value for PYX to 82p/share. We value PYX on a mixed basis using a simple average between NPV<sub>10</sub> and a peer multiple EV/EBITDA of 5x; which values PYX at a discount to the large producer (Iluka (ASX:ILU, N/R) with an EV/EBITDA of 9-10x, but at a premium to the lower insitu value, bulk producers of lower-value ilmenite (e.g Kenmare (LSE:KMR, N/R) with P/E's of ~3-4x. PYX has a simple business model to produce premium zircon (and minor rutile and ilmenite) at high margins.

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Recommendation	Total Stocks	Percentage %	Corporate	Percentage %
Corporate	66	100.0	66	100.0
Виу	0	0.0	0	0.0
Speculative Buy	0	0.0	0	0.0
Outperform	0	0.0	0	0.0
Market Perform	0	0.0	0	0.0
Underperform	0	0.0	0	0.0
Sell	0	0.0	0	0.0
Total	66	100.0	66	100.0

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Company Name	Table of interest number	12-month recommendation history	Date
PYX Resources (PYX)	1,2,3,4,5	Corporate	05.04.22

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