PENSANAPIC

US\$236 million Financing unlocks development of one of the world's largest rare earth mines

Corporate Presentation February 2024 LSE:PRE

Highly Supportive Major Shareholders have invested US\$70 million to date

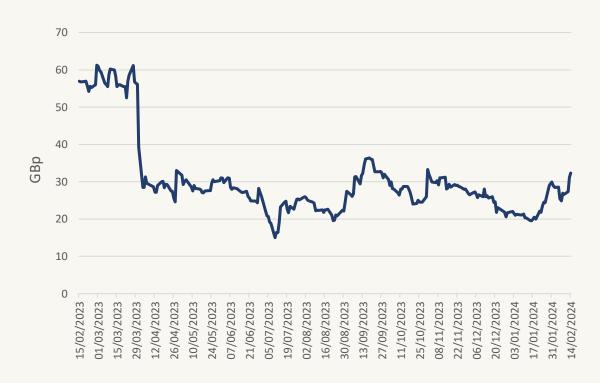
LSE standard list (LSE: PRE)
285 million shares on issue
Market Capitalization ~£90 million

Angolan Sovereign Wealth Fund FSDEA (26%) (Invested US\$32 million Mar 2020 – Apr 2023 and US\$15 million loan October 2023)

M&G Investments (12%) (Invested US\$22 million Jan 2022 – Apr 2023)

Selection Capital (Chairman PCA) (5%) (*Invested US\$1.042 million Mar 2020 and on-market purchases.*)

12 Month Share Price



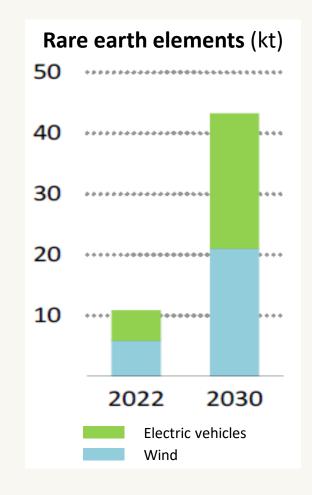


Electric Vehicles to increase 10-fold by 2030 amid 'unstoppable' net zero shift

The transition to clean energy is happening worldwide and it's unstoppable. Electric vehicles are now expected to have a global market share of 38% of new sales by 2030.

Rapid uptake in EVs in recent years with projections now showing more than **350 million passenger cars on the road in 2030**, a 20% increase in the 2020 outlook.

Long lead times for mines and the associated infrastructure mean that scaling up supplies takes time, raising the risk of supply bottlenecks.



Demand for rare earths expected to increase by almost 400% by 2030 under IEA APS



Investment Opportunity for UK investors

Rare opportunity to gain direct exposure to the biggest energy transition in history



The electrification of motive power through EVs and Wind Turbines will generate a demand growth for magnet metal NdPr of 7.5% CAGR over the next decade.



Pensana owns one of the world's largest undeveloped rare earth mines, one of only three with a JORC Reserve >100,000 tonnes of NdPr.



Global significant producer ~5% of world production of NdPr at full capacity.



Upfront capital cost of US\$217 million for the fully permitted mine and processing facilities is amongst the lowest of its peers.



Financed with US\$236 million debt and equity facilities by pan African bank, FSDEA, and African multilateral agencies at the subsidiary level.



One of the Largest Undeveloped Rare Earth Deposits Globally

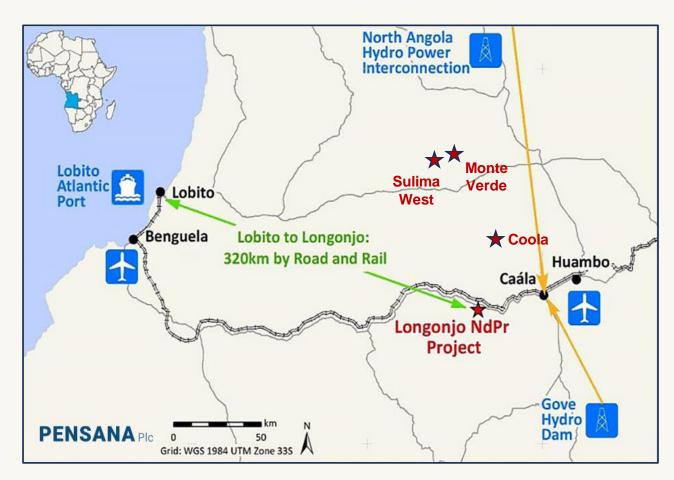
Excellent rail, hydro and port infrastructure

JORC RESERVE 30 million tonnes containing 166,000 tonnes NdPr oxide for initial 20-year mine-life.

Shallow, deeply weathered orebody, with an average mine depth of less than 30 metres.

High average mine grade of 4.12% TREO and 0.90% NdPr over the first five years.

Access to affordable hydroelectric power and direct access to the Lobito Port via the Benguela rail line.



Exciting new discoveries at Coola and Sulima West - 75 km north of Longonjo

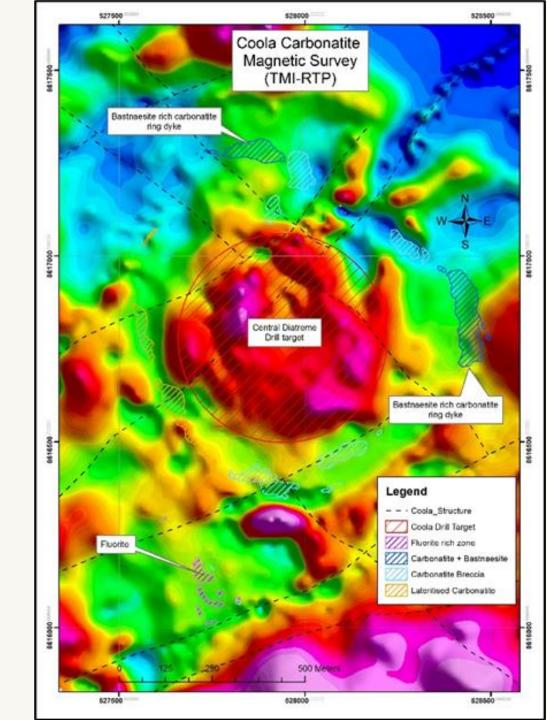
Coola confirmed as a 900-metre diameter carbonatite ring dyke with similar scale and prospectivity to Longonjo.

Sulima West has reported strong anomalies with high-grade mineralisation for drill testing.

Metallurgical testwork is underway on a Coola 4.7% TREO bastnaesite bulk sample and a Sulima West 4.8% TREO enriched laterite bulk sample.

Exploration Manager, Grant Hayward:

"We believe Coola to be a highly prospective volcanic pipe which appears to have a similar scale to Longonjo. Sulima West has some exciting high-grade drill targets. We are metallurgical testing bulk samples from these two deposits as potential high-grade feedstock for processing at Longonjo."



Angola - Attracting Global Mining Investment

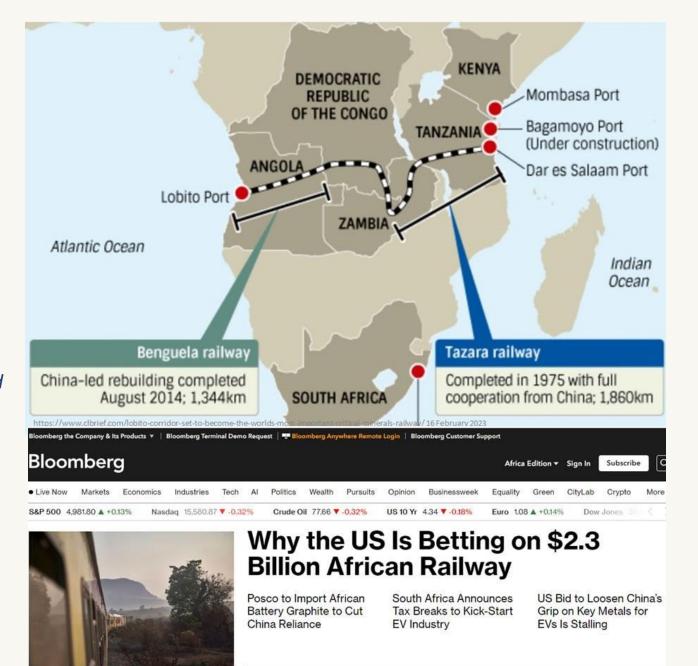
Untapped critical minerals endowment, exceptional rail, hydro and port infrastructure and a highly supportive Government.

Ivanhoe Founder Robert Friedland "We thank the government of Angola for welcoming Ivanhoe Mines and entrusting us to explore their vast mineral endowment. Our goal is to make Angola a globally significant producer of strategic minerals."

Anglo American CEO Mark Cutifani "I was impressed with the strategic vision that the Minister has for Angola, and what he wants to do with the Mining Sector."

De Beers CEO Bruce Cleaver highlighted the "..stable and attractive investment environment."

Pensana CEO Tim George "..the Lobito Corridor will have a very positive impact on the transport logistics during construction and on the reagent and product transport during operations."



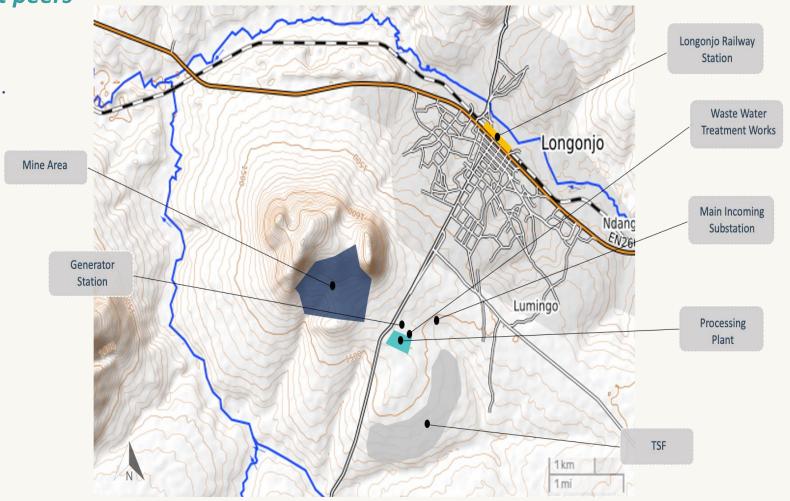
State-of-the-art Mine and Processing Facility

Upfront capital cost lowest amongst peers

Upfront capital cost of US\$217 million, with circa US\$105 million deferred until year three.

Low capex due to excellent rail, hydro and water infrastructure.







Highly Experienced Project Delivery Team

Proven design and delivery track record of modular process plants across Africa



MCC is a leading project management team with a track record of delivering projects across Africa including Angola.



ADP African minerals specialist in detailed design, construction and commissioning of modular mineral processing plants with extensive experience in Angola.



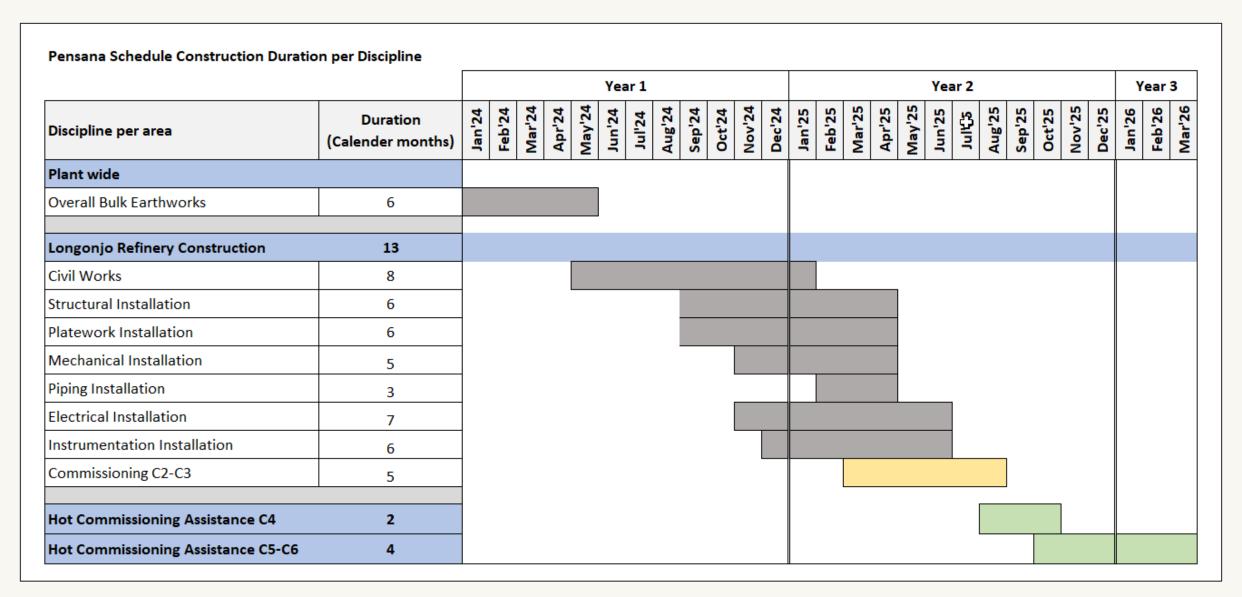
Pro Process hydrometallurgical specialists with expertise in delivering modular process plants throughout Africa.







Construction and Commissioning Schedule – on track for first production in 2025



Strong demand for Longonjo's Highly-Marketable Mixed Rare Earth Carbonate (MREC)

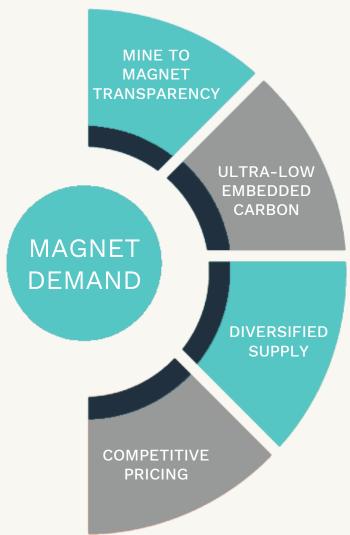
One of the only mine developers to offer a high value, radionuclide-free product available for export.

Executed letter of intent for the offtake for up to 100% of stage 1 production. Customer has approved MREC product specifications.

Engaged with major OEM's for partnership to support their magnet supply chains including JLR, Volvo, Mercedes, Ford, Polestar, BMW, VW, Tesla, Stellantis, PSA and GM









CO2 targets as a key criterion and 50% diversified supply chain.

Polestar

Net-Zero by 2030. Responsible sourcing: Ethical and transparent supply chain.





Net-Zero 2039. Full transparency for all supply chain partners.



Looking to Establish an Independent Downstream Supply Chain

Upstream Separation Metallisation

Magnet

Mine & Processing

- 40,000 tpa MREC
- Offtake underway
- Capex stage 1 US\$217m
- Capex stage 2 US\$105m
- Financing: ABSA, FSDEA & African multilateral agencies.

Saltend Chemicals Park

- 12,500 tpa TREO
- 4,400 tpa NdPrO
- Fully Permitted
- Capex US\$250m
- Proposed Finance: ABGSC
 Green Bond, recently
 announced ATF grant and
 other Government support.

Yorkshire Energy Park

- 4,000 tpa NdPr alloy
- Low electricity cost
- Offshore Wind zero carbon PPA from UK Gov.
- Scoping Study underway

- - UK/Europe location
 - Japanese Partner / Customer

China controls 91% of Refining, 87% of Separation and 94% of Magnet Production

Longonjo Financing

US\$156 million Debt and US\$80 million Equity Financing at the subsidiary level (PRE 65%).

Major shareholder Angolan Sovereign Wealth Fund (FSDEA) is currently funding construction activities via a US\$15 million loan, ensuring project momentum.

The Longonjo lender consortium has provided a Term Sheet for a US\$156 million, 7 year secured facility, which is expected to include export credit guarantees and debt participation from a pan-African multilateral.

FSDEA and a pan-African multilateral development organisation have indicated that they will provide US\$80 million in equity.

Both Debt and Equity are at the Ozango subsidiary level with Pensana expected to own ~65% on completion.



CEO Tim George recently met with FSDEA Chairman
Armando Manuel in Luanda to discuss the Longonjo
financing arrangements

PENSANA Plo

Longonjo - Compelling Economics

Low upfront Capex with strong cashflow very highly leveraged to the NdPr price

	Adamas Intelligence Base Case ¹	Investment Bank Forecast
NPV @ 8%	US\$ 1,116 million	US\$ 603 million
IRR	34%	29%
Payback	4 Years	4 Years
Revenue	Stage 1: US\$ 227m Stage 2: US\$ 437m	Stage 1: US\$ 217m Stage 2: US\$ 371m
EBITDA	Stage 1: US\$ 126m Stage 2: US\$ 313m	Stage 1: US\$ 124m Stage 2: US\$ 263m
Capex	Stage 1: US\$ 217m Stage 2: US\$ 105m	Stage 1: US\$ 217m Stage 2: US\$ 105m

Management Valuation and Financial estimates based on NdPr price forecasts by Adamas Intelligence and Investment Bank







Strong Independent Board and Experienced Executive Management Team



PAUL ATHERLEY CHAIRMAN

Mr. Atherley is an experienced mining executive and is the founder of the Company. Previously Executive Director of the investment banking arm of HSBC. He has completed numerous successful acquisitions and financings of resource projects in Europe, China, and Australasia. He is a supporter of Women in STEM.



RT HON BARONESS NORTHOVER NON-EXEC DIRECTOR

Baroness Northover was the Prime Minister's Trade Envoy to Angola (2016- 2020), Zambia (2017-2020) and Minister in the Department for International Development ("DFID") 2011-15, including serving as Parliamentary Under Secretary and Africa Minister, 2014-15.



ROBERT KAPLAN FINANCE DIRECTOR

Mr Kaplan is a Chartered Accountant with over 20 years of operating experience in the African mining sector. He brings a broad skill set in both the UK and sub-Saharan corporate finance together with experience in mining operations in Angola, South Africa and Tanzania.



ALISON SAXBY NON-EXEC DIRECTOR

Alison is an industry-leading expert with over 35 years of experience in industrial minerals and metals. She was previously a Managing Director at metals consultancy Roskill and was recently appointed as Research Director of Project Blue. Alison is the author of numerous publications on critical and other minerals and was originally trained as a mineral engineer.



STEVE SHARPE NON-EXEC DIRECTOR

Mr Sharpe is a highly experienced natural resources financier. He is an Executive Board Member of EIT Raw Materials. Previously, he was Chair of AME Group, Managing Director at Canaccord Genuity, Managing Director at Endeavour Financial and held senior positions at Standard Bank and NM Rothschild.



ROCKY SMITH CHIEF OPERATIONS OFFICER

Rocky Smith is a highly experienced Chemical Engineer with 35 years of rare earths experience. He was Managing Director of Molycorp's Mountain Pass rare earth project in California, US, which is now owned by New York Stock Exchange listed MP Materials.



JEREMY BEETON
NON-EXEC DIRECTOR

Former Director General of the 2012 London Olympic and Paralympic Games, Principal Vice President of Bechtel, Advisory Board of PWC, and Non-Exec of SSE Plc. Currently also a Non-executive Director of John Laing.



TIM GEORGE EXEC DIRECTOR/ CEO

A Minerals Engineer, Mr. George leverages over 30 years of experience in the mining and engineering sectors, with a broad experience in mining project development throughout Sub-Saharan Africa.

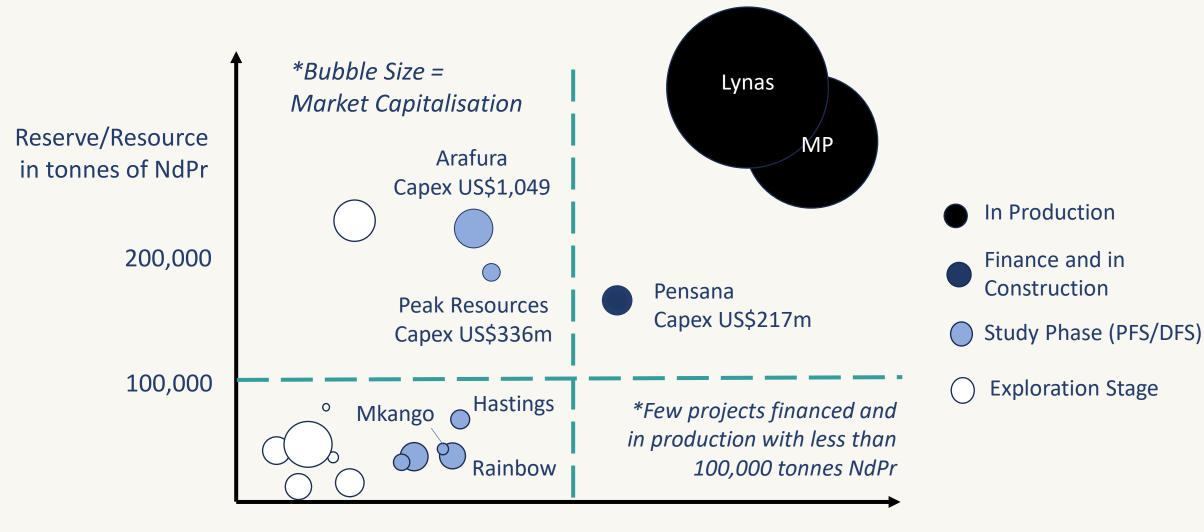


WILLIAM IZOD CHIEF COMMERCIAL OFFICER

William Izod has extensive experience in managing and developing rare earth supply chains, including 10 years working with large multi-national companies, including managing a Motor and Powertrain supply chain controlling £1bn of annualised spend.

Rare earth deposits are not rare. So why do so few get into production?

A: New projects need >100,000 tonnes NdPr Reserve, Low upfront Capex and Finance.



Source. ASX, AIM and LSE announcements and websites for the named companies

Stage of Development





The Energy transition is driving a massive demand for rare earths.

IEA: By 2030 there will be 350 million EVs which will drive rare earth demand 400%. CRU, Roskills, Adamas, Investment Banks all have RE price targets ~2-3X current levels.



So how does a UK investor participate in this upside?

Globally >50 RE juniors but only two major producers; LYC and MP each with mkt cap ~US\$3 bn. PRE is one of only three companies with over 100,000 tonnes of NdPr oxide in JORC RESERVES, ...and the only one with the lowest Capex, in construction and scheduled to come into production within the next 24 months.



PRE is an Institutionally backed junior, with finance, in construction and with a big valuation upside.

FSDEA, M&G and PCA have invested US\$70 million to date.

The ultra-low US\$217 million upfront Capex is being financed by Longonjo Lender consortium.

- PRE (65%) of EBITDA £137-163 million per annum v current market cap of £100 million.
- PRE (65%) Base Case valuation US\$600-1,100 million = £1.09 2.01 per share versus current 31p.

CONTACT

Pensana Plc
Rex House,
4th Floor,
4 - 12 Regent Street,
London,
SW1Y 4PE

+44 203 356 2700

info@pensana.co.uk

pensana.co.uk

@PensanaRE



Pensana Plc

PENSANA Plc

Sign up for regular email updates or to request a meeting with management info@pensana.co.uk



CAUTIONARY STATEMENT

This presentation and any additional documents presented (together the "Presentation Materials") are being supplied to you solely for information only. The Presentation Materials do not constitute or form part of any offer or invitation to sell or issue, or any solicitation of any offer to acquire or subscribe for, any securities issued or issuable by Pensana Plc (the "Company") or any of the business or assets described herein, nor shall any part of it nor the fact of its distribution form part of or be relied on in connection with any contract or investment decision relating thereto, nor does it constitute a recommendation or inducement to enter into any contract or commitment regarding the securities of the Company. In particular, this document and the information contained herein do not constitute an offer of securities for sale in the United States.

The Presentation Materials do not contain all the information that a prospective investor may require about the Company or its business, and have not been fully verified by the Company. It is not a complete statement of material information and is subject to updating, revision and amendment in any way without notice or liability to any party. Recipients of these slides and/or persons attending this presentation who are considering a purchase of ordinary shares in the Company are reminded that any such purchase must be made solely on the basis of the information that the Company has officially released into the public domain. Except where stated, the information disclosed in the Presentation Materials ("Information") relates to the proposed business of the Company at the date of this document. This presentation does not contain advice relating to legal, taxation or investment matters. Whilst all reasonable care has been taken to ensure that the facts stated in these slides and this presentation are accurate and the forecasts, opinions and expectations contained in these slides and this presentation are fair and reasonable, the information contained in this document has not been independently verified and accordingly no representation or warranty, express or implied, is made by the Company or any of its subsidiaries, directors, employees, agents and consultants as to the accuracy, fairness or completeness of the information or opinions contained in these slides or this presentation and no reliance should be placed on the accuracy, fairness or completeness of the information contained in these slides and this presentation. The Company and its subsidiaries, directors, employees, agents and consultants shall have no liability (including liability to any person by reason of negligence or negligent misstatement) for any statements, opinions, information or matters (express or implied) arising out of, contained in or derived from, or for any omissions from the Presentation Materials, except liability under statute that cannot be excluded. The information in the Presentation Materials have been provided by the Company or obtained from publicly available sources. No reliance may be placed for any purposes whatsoever on the information or opinions contained in the Presentation Materials or on their completeness.

The Presentation Materials may contain reference to certain intentions, expectations and plans of the Company ("forward looking statements"). Those intentions, expectations and plans may or may not be achieved. Any forward-looking statements are subject to inherent risks and uncertainties and are based on certain assumptions that may not be met or on which views may differ. The performance and operations of the Company may be influenced by a number of factors, many of which are outside the control of the Company. Actual future results may be materially different. No representation or warranty, express or implied, is made by either the Company or any of its directors, officers, employees, advisers or agents that any intentions, expectations or plans will be achieved either totally or partially or that any particular rate of return will be achieved. You are cautioned against relying upon any forward-looking statement in this document which speak only as of the date of this document. The Company will not undertake any obligation to release publicly any revisions to these forward-looking statements to reflect events, circumstances and unanticipated events occurring after the date of this presentation except as required by law or by a regulatory authority. Past performance of the Company or its shares cannot be relied on as a guide to future performance.

Neither this document, nor any copy of it, may be taken or transmitted into any jurisdiction where it would be unlawful to do so. Any failure to comply with this restriction may constitute a violation of relevant local securities laws.

The Presentation Materials do not contain an offer of securities in the Company, nor an invitation to apply for such securities. The document does not involve or imply a recommendation or a statement of opinion in respect of whether to buy, sell or hold a financial product. You should carry out your own independent investigations and assessment of the Information before acting and if you are in any doubt about the information and statements in this presentation you should obtain professional advice from a person authorised by the Financial Conduct Authority who specialises in advising on securities of the kind described in the Presentation Materials.

The Presentation Materials remain the property of the Company and may not be reproduced, distributed, transmitted or published (in whole or in part) without the prior written consent of the Company. Information in this presentation which is attributed to a named third party source has not been checked or verified by the Company.

Neither this document nor any copy of it may be taken or transmitted into the United States of America, its territories or possessions or distributed, directly or indirectly, in the United States of America, its territories or possessions. Neither this document nor any copy of it may be taken or transmitted into Australia, Canada, Japan or the Republic of South Africa or to any securities analyst or other person in any of those jurisdictions. Any failure to comply with this restriction may constitute a violation of United States, Australian, Canadian, Japanese or South African securities law. The distribution of this document in other jurisdictions may be restricted by law and persons into whose possession this document comes should inform themselves about and observe such restrictions.

This document has been prepared in compliance with English law and English Courts will have exclusive jurisdiction over any disputes arising from or connected with the Presentation Materials.

