

Orexplore Investor Presentation

November 2022





Who we are.

- A commercialisation-stage mineral scanning technology company, established in Sweden and headquartered in Perth, Western Australia
- Aiming to transform the mining industry with a next generation non-destructive scanning technology to extract insights from drilled core in a faster, more sustainable way, improving decision making across the mining value chain
- Primed to capitalise on global mega-trends; surging metals demand; increasingly difficult exploration; slow resource to reserve conversion; project and operating pressures; and accelerating ESG drivers



Corporate Structure | **ASX: OXT**

Well funded to execute product commercialisation strategy, while ensuring financial discipline.

Capital Structure

Shares on issue **103,664,196**

Performance rights

8,293,136

Share Price (02.11.22)

\$0.080

Market Cap (02.11.22)

A\$8.81m

Q3 Revenue (30.09.22)

~A\$684k

Cash position (30.09.22)

~A\$8.94m

No debt

Led by Experienced Board & Management

Alan Bye

Non-Executive Chairman

Brett Giroud

Managing Director

Kent Swick

Non-Executive Director

Stefan Sädbom

Non-Executive Director

Stuart Carmichael

Non-Executive Director

Frank Campagna

Company Secretary

Top Shareholders¹

Circle 5 Management Pty Ltd.

Kent Jason Swick

Castle Point Funds Management Ltd.

Other top 10 holders (combined)

% Shares on Issue

19.00%

11.91%

8.56%

16.80%

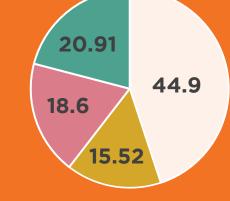
Shareholder Structure

■ Public & Other

■ Institutions

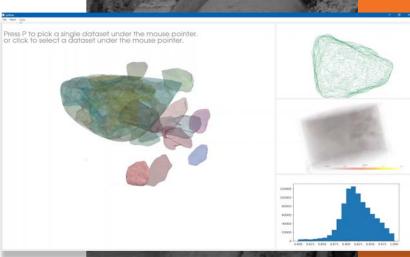
■ Board & Key Personnel

■ Corporations (Private)



X-ray Powered Core Insights.















Non-destructive Human - Machine Multi commodity Value Creation

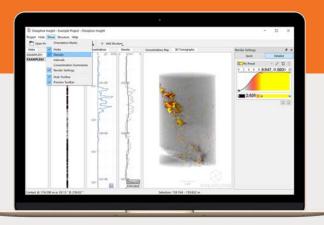
True 3D scanning unlocking transformational products

- The Geocore X10 scans through the core creating a unique 3D data set that powers a suite of new products across the mining value chain from exploration to closure.
- The technology platform enables geologists and mining professionals to analyse remote site core within 15 minutes of placing it in the machine.
- Improving exploration outcomes. unlocking ore-bodies, accelerating resource to reserve conversion, and saving time and resources within customer's operations.
- A sustainability enabler to advance precision mining and support the ESG transition.





Technology offering.















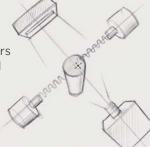
GeoCore X10 ®

High Energy X-ray Source

XRT (X-ray transmission) CT provides 'through-the-core' structural 3D imaging used to estimate potential elemental composition, geological structure, texture & density.

Spectrometers

XRF Spectrometers provide elemental detection at the core's surface.



- Fast: scans four x 1m cores at a time, in less than 15 minutes per metre.
- Versatile: non-destructive scanning of both core & noncore (chips etc.) material.
- Easy: requires minimal skill set to operate. One technician can operate up to 3 machines.

Insight software platform

Orexplore's software system, **Orexplore Insight®**, provides users with the ability to interact and analyse the scan results obtained from the GeoCore X10®. It allows for 3D-visualisation of the core and the ability to further analyse the resource and physical information, providing rich capability to understand, interpret and extract key information contained within the sample such as:

- Geological structures
- Lithology / texture
- Density high resolution
- Rock mechanics & physical characteristics e.g. RQD
- Particle detection
- Detected elements
- Emerging geochemistry

Life of mine coverage.



ExplorationTargeting tool

Mineralisation indicators and vectors guiding campaigns.



Resources & Reserves

Accelerating developments & acquisitions

3D field information supporting accelerated conversion and techno-economic reviews.



Extraction Economics

Matching methods to deposits

Mine design and process selection through rock characterisation e.g. ore sorting.

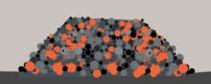


















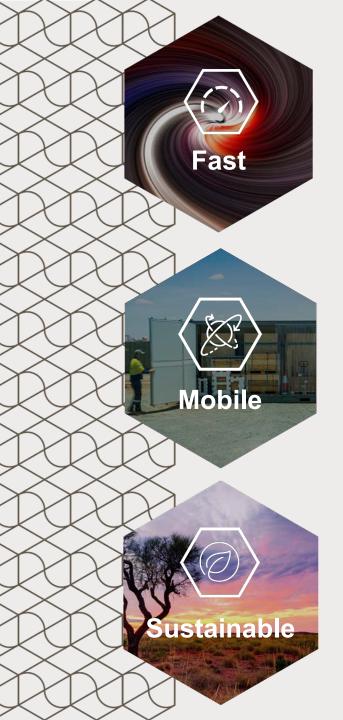
ESGEnvironmental management

Acid drainage and waste impact monitoring.



OperationsProduction & Analysis

Optimising core sampling and dynamic grade control.



Business Model.

Laboratory Scanning

- Core transported to Perth or Stockholm laboratories
- Initial customer test ground to leverage into site deployment
- Typically, lower volumes of several metres to 1,000 metres per engagement
- Product development with clients

Site Scanning

- Machine transported to customer site
- Medium to high volumes of over 1500 metres per month (resolution dependent)
- Larger customers with machines embedded into site workflows
- Continuous rapid scanning

Orexplore Insight® Software

- User interface platform
- Visualises easy-to-interpret scan results
- Enables remote SME's to view and analyse rapid field results
- Supports the analysis of structures, faults, fractures, fabric, density and lithology
- Illustrates detected elements and emerging 3D modelled geochemistry
- Ongoing machine learning / human analysis platform development

OREAPLORE INSIGHT SOFTWARE

GEOLOGICAL CONSULTING

GEOLOGICAL CONSULTING

Geological Consulting

- Drives adoption "Geo to Geo" selling of transformational technology
- Supports customer integration into site processes and workflows
- Working with customer champions to articulate and promote value within the customers organisation
- Identifies and develops new Products



Commercialisation.

Market traction – exploration targeting, resource to reserve, operations efficiencies

OZ Minerals Contract – ~\$2.35m commercial field deployment supporting resource to reserve acceleration

Product development – ore sorting, environmental management

Sales - building product, commodity and geographic pipeline and Latin American sales team

Marketing - customer engagement and industry leadership





Oz Minerals. \$2.35m Contract

- Orexplore is collaboratively working with Oz Minerals to accelerate the traditional resource to reserve approach
 connecting unique field data to remote <u>study teams</u>
- The system is unlocking new insights on orebody knowledge to drive operational configurations that maximise value
- Scanning and analysis of approximately 30,000m of drill core and samples on-site
- Creating a new paradigm of rapid ore body assessment





Capabilities.

Operations – operations and maintenance team supporting field deployments

Delivery systems – remote operations and support systems

Finance & governance – new project and finance systems and processes supporting financial management and operational revenue and cost tracking

Functions – fit for purpose functions focused on commercialisation

Data Science Team – rapidly building data products from unique 3D data sets

Teams - high performance engineering, geology, sales and R&D teams driving commercialisation pace





Technology.

HQ machine - now scanning up to HQ core size ~ +40% market

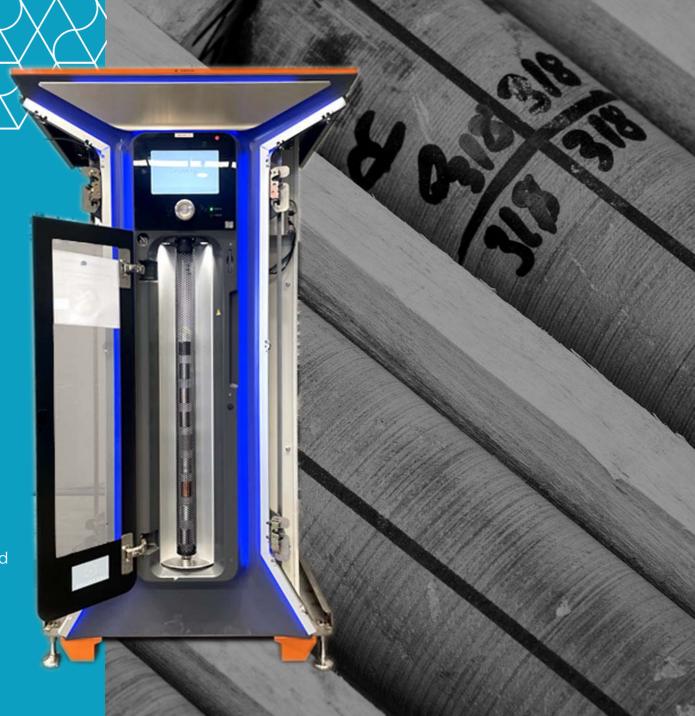
Core engine - data science and physics team advancing main system

Orexplore Insight® - new functionality driving product delivery and enabling machine learning

Fleet - upgraded capabilities including functionality, QA and speed

Manufacturing - improving supply capacity through design evolution and supply chain flexibility

Future horizons - advancing next generation sensors



Strategic Priorities.



Revenue - commercial field deployments and laboratory scanning

Sales - growing pipeline across commodities, geographies and customers

Adoption - solving pain points and demonstrating transformational technology value

Financial discipline – robust financial management





Capabilities.

Operations and Engineering – delivering reliably enables effective scale

Business Development – focused customer targeting

Machine Learning – computer assisted core analysis

Reliable logistics – reliable deployed fleet

Technology.

GX10 - increased core size, functionality and capability

Insight® – advancing features and performance of 3D analysis

Products - R&D conversion through data-geo science & engineering

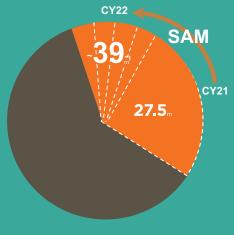
R&D - next generation sensing



Increasing Market.

Drilled core market

107.8 CY22









Base Metals Nickel, Copper, Zinc, Lead

*1 - CY22 HQ machine development has unlocked ~ 40% uplift in Serviceable Available Market (SAM)

See Table 7 (p27) of Minex Consulting report *2 - total available drilled core (all sizes) of 107.8 million metres for 2022 - of which 58.3 million metres are NQ size or less. Additional 49.5m metres above NQ consist of a combination of HQ and PQ style of which a course estimate is that 60% of this is HQ/HQ3.

Market Segments



Current focus



Australia



Europe



Latin America

*2 - Source: Minex Consulting - Independent Technical Report - On the available global drilling market - see Orexplore Prospectus 22 November 2021 - Annexure C - available at <u>www.Orexplore.com</u>

Key Investment Highlights.



Fast





Human - Machine





Multi commodity

Value Creation



Transformational Technology

Through the core – true 3D scanning powering unique products

Non-destructive – full digital model - drill once & collaborate

Fast in the field – < 15m/m then remotely available to SME's

Human-Machine analysis – Insight® user platform enables

machine learning powered SME analysis



Traction

Contracts - \$2.35m Oz Minerals; Lab scanning and product development with growing customer base

Pipeline growth - through targeted outreach

Product adoption - exploration targeting; resource to reserve, sample selection, ore sorting, acid drainage

Skilled deployment team - seasoned delivery team

Global outreach - Latin American sales and global core









Scalable business model

Rapidly deployable mobile fleet

Fast build - long life

Simple operation and remote support

Excellent machine economics

Well funded to execute



Attractive growing market

Growing global demand

Increasing market - HQ capability, products, historical core

Across the value chain - exploration - projects - operations

Multiple commodities

Global transition enabler - digital, automation, workforce,

ESG, energy





Contact.

Reach out to Orexplore to learn more about our potential.

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Perth | Stockholm

www.orexplore.com



Appendix.



Global mega trends.



Digital Transformation

- Technology enabled business model evolution
- Productivity
- Industry 4.0



Workforce Evolution

- · Skills shortage
- Remote knowledge
- Transitory workforce
- Tech decision support



Business

- Mining techno-economics
- Increasing global competition
- Doing more with less
- Risk quantification and control



Automation

- Manufacturisation of mining
- Human-machine collaboration
- Autonomous systems & vehicles



Metals Demand

- Energy transition
- Rare earths
- Electric vehicles
- Developing nations



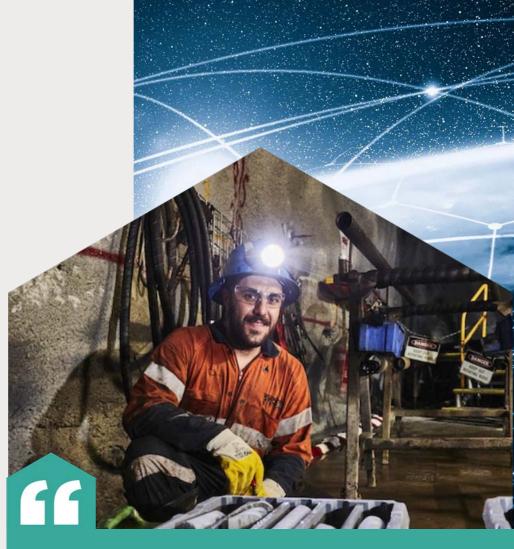
Sustainability

- · Ethical investment
- Social value
- Emissions targets
- Natural environment
- Global targets



Accelerating Value Chains

- Business models synchronising to accelerating markets
- Rapid reconfiguration to service market opportunities



"Technology powered decision support is vital to capture value through these global transitions. Orexplore's drilled to insight time connects geologists to ore bodies within hours of drilling."

Brett Giroud - Managing Director

Mining transitions.





Digital Transformation



Sustainability



Business



Automation



Metals Demand



Workforce **Evolution**



Accelerating Value Chains



- Diminishing discoveries
- Campaign efficiencies
- Pressure to become a producer quickly

Stakeholders

- Continually expanding
- Accelerating expectations
- Demonstrating leadership across domains - ESG,
 Carbon

Operations

- Productivity pressures
- Skills shortages & changing ways of working
- "Do more with less"

Projects

- NPVs under pressure
- Challenging technoeconomics
- Technology adoption
- Evolution of engineering

Corporate

- Evolving business models
- Global competition
- Complex dynamic value chains
- Synch to accelerating markets
- Access to capital



Orexplore provides traction through transitions

- Decision support
- Operational transformation
- Corporate value
- Risk and Sustainability

Your challenges, our solutions.



Diminishing exploration returns



Slow resource to reserve conversion



Mining blind



Project techno-economics



Production efficiencies



Assay delays & costs



ESG value creation & risk control



Exploration Targeting tool

Mineralisation vectors derived from mineral indicators, alteration states, and rock characterisation.



Resources & Reserves Accelerating developments & acquisitions

Unique 3D insights from the field supporting accelerated conversion and techno-economic reviews.



Mining Don't mine blind

Operationally embedded units for grade control improvements to assist dynamic mining decisions.



Project EconomicsMatching plants to deposits

Ore sorting and rock characterisation to "best fit" process plant design with orebodies to drive NPVs.



Operations Production & Analysis

Optimising core sampling and analysis through pre-filtering and driving operational efficiencies



ESGEnvironmental controls

Dynamic field based environmental risk controls – such as acid drainage and waste impact monitoring





Drill for information.

Edge Compute - A technology paradigm of Industry 4.0

Orexplore Agile, collaborative, Laboratories decision support Our field-generated data is highly Our laboratory scanning capability provides customers with the configurable and readily integrated opportunity to collaborate with our into centralised hubs of expertise. As a Edge compute² Field based sensing expert team to swiftly configure our result, teams can collaborate globally devices (IIOT)1 product solutions to address their and create value with the most current most pressing needs. contextualised information. The digital mining trend is Processing and computation of increasingly driving the collection field-generated data is increasingly Central analysis of very recent field These interactions drive our and use of data in field-deployed occurring closer to its source. data can be fed back to sites to technology and capability growth devices and technologies. pathways, harnessing opportunity support their operations and identify Field deployments of our where supplemental field information and accelerating the development of Orexplore's Technology Platform® GeoCore X10° paired with our customer-driven Value Propositions. is required to support tactical and Orexplore Insight Platform allows has the potential to harvest data strategic decisions. from these devices, integrating it immediate access to data for direct with the core sensing data stream action, analysis and interpretation This collaborative generation of ore generated by the GeoCore X10". with adaptable levels of body knowledge may reduce data expert support. collection cycle times, increasingly actionable information, and it's use The conclusions and output can be in agile exploration, expansion and readily broadcast back to field devices operation optimisation activities. for tactical execution and to advise senior stakeholders with mediumterm and strategic decision-making. Orexplore **Analysis** Field Information Insight and Notes 1. IIOT - Industrial Internet of decision support



Fast

industry leading

Drilled to insight
remote analysis within 15m



Mobile

exploring with you

Anywhere in the world

rapidly transportable containers



Sustainable

scan core

Transport information save time, money and emissions

Technical capabilities.



Detected elements and emerging geochemistry

Elements - continually improving the accuracy and number of elements that can be detected.

Dense particle detection

Detection of the location of dense particles within the entire core down to 100-micron particle sizes.

Geological

Lithology / texture

Semi-automatic identification and logging of lithological features.

Rock mechanics

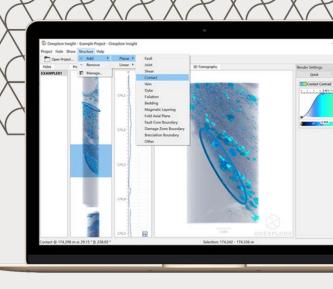
Collection and annotation of rock mass data incl. rock quality designation (RQD), detailed assessment of joint orientation and infill.

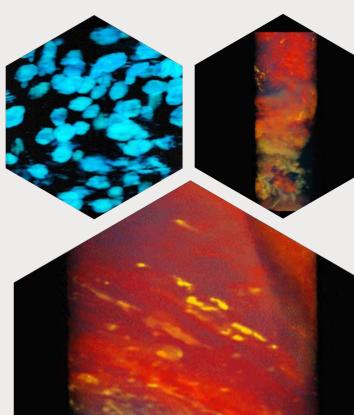
Structures

Bedding planes, veins, folds and lineations through the core – oriented and exportable to 3rd party software.

Density

Accurate density measurement of each core sample. Inferred density up to 25 sample points per metre.



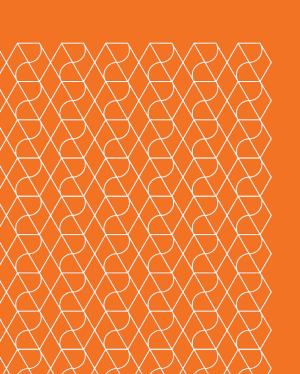


Key Personnel.

























Board of Directors.

Kent Swick

Non-Executive Director

Kent is a Mechanical Engineer with over 30 years' experience in civil construction, mining maintenance and surface and underground mineral drilling. Kent successfully founded and has led (Managing Director) Swick Mining Services Ltd since its inception. Kent has a Bachelors of Engineering from the University of Western Australia and has completed the Owner/President Management program at Harvard Business School

Stuart Carmichael

Non-Executive Director

Stuart is a Chartered Accountant with over 20 years' experience in the provision of corporate advisory services both within Australia and internationally. Stuart is a Principal and Director of Ventnor Capital Pty Ltd and Ventnor Securities Pty Ltd which provides corporate and financial advice to small-cap ASX listed companies. Further, Stuart acts as a Non-Executive Chairman / Director for a number of other ASX listed companies



Alan Bye Non-Executive Chairman

Alan is a highly respected industry figure with strong expertise on the innovation of the resource industry – covering both digital and extractive innovation technologies. Alan is the co-founder and Managing Director of Imvelo Pty Ltd, a Non-executive Director at Scitech, and holds council positions at SmartSat CRC & CSIRO. Alan has a Ph.D. in Mining from the University of KwaZulu-Natal.

Brett Giroud Managing Director

Brett brings over 24-years of technology delivery, creating and leading large high performing teams. He has driven mining industry transformation and delivered systems and technology across over \$15B of capital projects. Brett has created and led business units, lectured on future systems and is a sought after advisor to start-ups. Brett was previously the Chief Engineer (ICT) for Jacobs (SKM) Engineering, and APAC head of Strategy and Transaction Services for Worley (Advisian). Brett has a Bachelor of Engineering & an MBA from the University of Western Australia

Stefan Sädbom

Non-Executive Director

Stefan is a senior exploration geologist with over 35 years' experience in exploration and underground mining. Through various entities, Stefan has been deeply involved in several Swedish and European innovation projects relating to the improvement of the mining industry. Stefan sits on the board of a number of other Swedish listed and non-listed entities. Stefan holds a Bachelors of Geology from Uppsala University