

#### OREXPLORE

**TECHNOLOGIES** 



October 2023

Perth | Santiago | Stockholm



### Disclaimer

#### **About Orexplore Technologies**

Orexplore Technologies Limited (ASX: **OXT**) is a globally focused mineral technology business concentrating on advancing the commercialisation of its Technology Platform across the mining value chain within the global metals and mining sector. The Company's Technology Platform consists of the GeoCore GX10® hardware product and Orexplore Insight user interface software, that is continually advancing through its in-house multi-disciplinary research and development team based in Stockholm, Sweden.

Orexplore's first product, the GeoCore X10®, is a transportable X-ray rock mass scanning technology that converts drill core samples into a three-dimensional data set to provide a "through the rock" image of internal structures and texture in addition to elemental detections, and density.

The Company maintains core-scanning laboratories in Stockholm, Perth, and Santiago. Or explore's talented global team includes consulting geologists, engineers, data scientists and physicists, and technology delivery experts. The Company continues to advance its solutions through development and delivery of customer solutions powered by its Technology Platform.

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### Disclaimer

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### **Corporate Structure | ASX: OXT**

Well positioned to accelerate solution adoption across a growing customer footprint.

#### **Capital Structure**

Shares on issue **171,045,922** 

Performance rights 13,583,071

No debt

Share Price (23.10.23)

A\$0.042

Market Cap (23.10.23)

A\$7.18m

H1FY23 Revenue

~A\$1,486k

Cash position (30.06.23)

~A\$3.06m

#### **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

William Randall

Non-Executive Director

Frank Campagna

Company Secretary

Top Shareholders

**Kent Jason Swick** 

Circle 5 Management Pty Ltd.

% Shares on Issue

17.51%

17.27%

October 23 - completed successful \$4.2m capital raise

- fully underwritten rights issue
- strongly supported placement
- strong backing from existing shareholders



### Who

A globally focused mineral scanning technology company delivering solutions across the mining value chain for customers as they navigate global transitions.

We believe in the sustainable extraction of minerals and metals creating value for all stakeholders to power a better world.

We are...

300+

YEARS EXPERIENCE ACROSS THE MINING VALUE CHAIN 3

**CONTINENTS** 

25+

EXPLORERS, GEOLOGISTS, PHYSICISTS, DATA SCIENTISTS, ENGINEERS, MATHEMATICIANS



### Why

Navigating multiple global transitions, the mining sector is under pressure to deliver future minerals and metals more productively and sustainably.

Orexplore's technology platform is solving entrenched and emerging pain points and creating new value across the mining value chain.

From decreasing exploration returns and project techno-economics, to operational challenges, accelerating ESG expectations and beyond, Orexplore is delivering new solutions every day.

### Business





Differentiated technology delivering unique solutions

10+ years and >\$50m of investment

#### **Accelerating validation**

 a growing range of customers - including BHP, Gold Fields, Northern Minerals and others

#### **Growth and Pipeline**

- ✓ H1FY23 revenue +52% vs H2FY22. (+627% H1FY23 v H1FY22)
- ✓ growth pipeline geographies, customers, solutions, minerals & metals

#### **Experienced board and management**











### Journey



Opportunity

Development

Traction

Scaling

Maturity

Currently transitioning from the commercial traction phase into the scaling phase.

Our technology platform powers a unique solution suite that supports miners across their whole life of asset – from exploration to closure.

The Company is now experiencing accelerating interest and adoption of our solutions across multiple regions, and we are now looking to scale and advance solutions across these regions.

#### **Current Pipeline**

#### **Further growth opportunity**



Australia





Latin **America** 



**Europe** 



**Asia Pacific** 



North **America** 

#### **History**

Founded - Stockholm 2009 Sweden

2018 Swick 100% - Perth opened, field trials commenced

**2022** Swick demerger > ASX

**2022 OZ Minerals** \$2.35m

**2023** Gold Fields Chile \$430k

2023 Critical Minerals

2023 BHP Carrapateena \$1.55m





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A new MRI from Duke University can image the entire mouse brain at a resolution 64 million times better than the MRI in your doctor's office.





onal use only





### Solutions across the mining value chain

**Solutions** – linking scanning to value for customers to support premium pricing over time through competitor differentiation

Stage

Solutions

**Customers** 



**Exploration** 

Exploration Targeting (EXT)

A targeting tool for mineralisation indicators and vectors



Resources to Reserves

Orebody Knowledge (OBK) Advancing structural, mineralogy and elemental information to advance deposit characterisation

Smart Domaining (SDM)

Advancing value in ground and optimal recovery to drive mining and project designs.



**Extraction Economics** 

Auto RQD (RQD)

Mine design and process selection through Geotech, Geomet, & rock characterisation



NORTHERN

**Operations** 

Sample Optimisation (SOO)

Grade Control (GDC) Improving traditional testing regimes

Rapid field analysis of core and chips

Ore Sorting (OST)

Log Checker (LGC) Deposit-scale sortability models to drive economics



Augmented logging – Human - Computer learning



**ESG** 

Acid Rock Drainage (ARD) Acid drainage and waste impact monitoring



Solution

Solution in feasibility phase

### Solution traction



Operations

RQD

ОВК

SDM



Resources to Reserves & Extraction Economics



RQD



#### BHP - Carrapateena \$1.55m

Orexplore enters an operating mine focusing on integrating the technology into workflows and delivering operational solutions

~ 15,000 metres of core to be scanned



#### OZ Minerals - Kalkaroo \$2.35m

In a harsh remote environment, Orexplore safely digitised core 24 / 7 to advance Orebody knowledge and accelerate mining and operations options analysis

~ 20,000 metres of core scanned



**Operations** 









Extraction Economics



OST

#### **Gold Fields - Salares Norte**

Or explore enters the South American market with its first commercial deployment into a mining operation.

3.000 metres of core to be scanned

#### Northern Minerals - Project development

Building ore sorting models to drive project techno-economics and developing operational grade control solutions for future operations

~ 900 metres of core scanned



### Carrapateena

### Integrating into operations

Through embedding three (3) GeoCore X10® machines into the operational workflows, Orexplore will help the site team unlock advanced rock mass characterisation and geometallurgical information to improve operational performance and longer-term planning of the mine.

The Company's "Smart Domaining" (SDM) and Orebody Knowledge (OBK) solutions, powered through its unique technology will additionally drive improved modelling, with potential value drivers across downstream mining, processing, and reconciliation outcomes.

Initial \$1.55m agreement for the scanning and analysis of approximately 15,000m of drill core and associated geo-science integration services.

Auto RQD (RQD)

Mine design and process selection through Geotech, Geomet, & rock characterisation



### Salares Norte

### **Entry to mining operation**

Integrating the technology into ongoing mine operations, through an installation at the Gold Fields Salares Norte gold and silver mine, in Chile.

Initial \$430k agreement for the scanning and analysis of approximately 3,000m of drill core as part of the larger scale annual exploration program.

Roll-out of Orexplore's new sample optimisation solution (SOO), optimising the downstream laboratory testing, and Orebody Knowledge (OBK) advances.

Orebody Knowledge (OBK)

> Sample Optimisation (SOO)

Advancing structural, mineralogy and elemental information to advance deposit characterisation

Sample support for improving traditional testing regmies



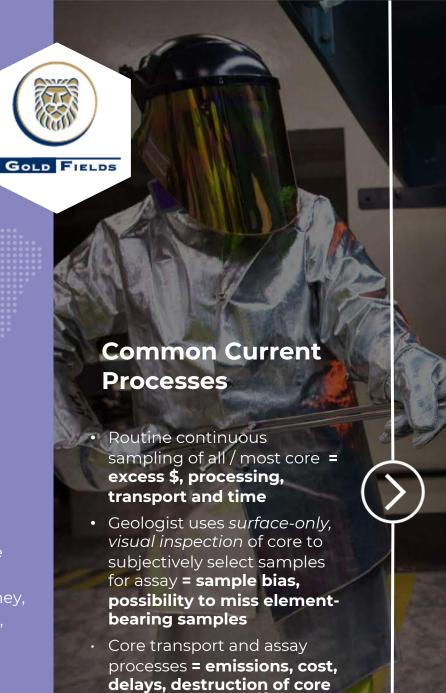
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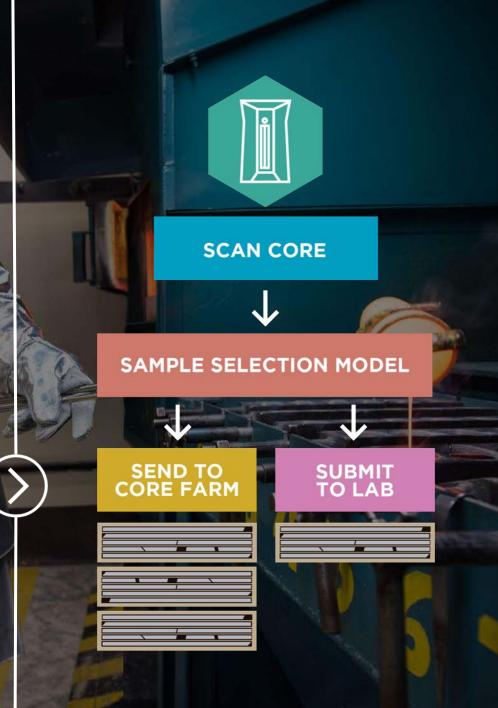
### Solutions

## Sample optimisation

Explorers and operating miners are under pressure to do more with less and delays associated with receiving sampling results often have significant schedule and cost impacts.

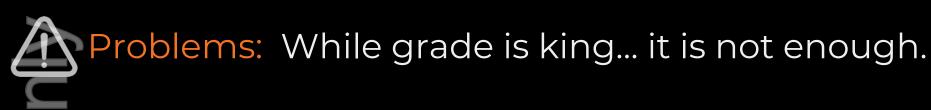
Orexplore's technology platform allows customers to pre-screen the entire 3D core volume and then sample to optimise the overall sampling process, saving time, money, and the associated emissions from cutting, transporting and destroying core through traditional processes.





#### **Case Study**

### **Gold - Deportment and Sampling**

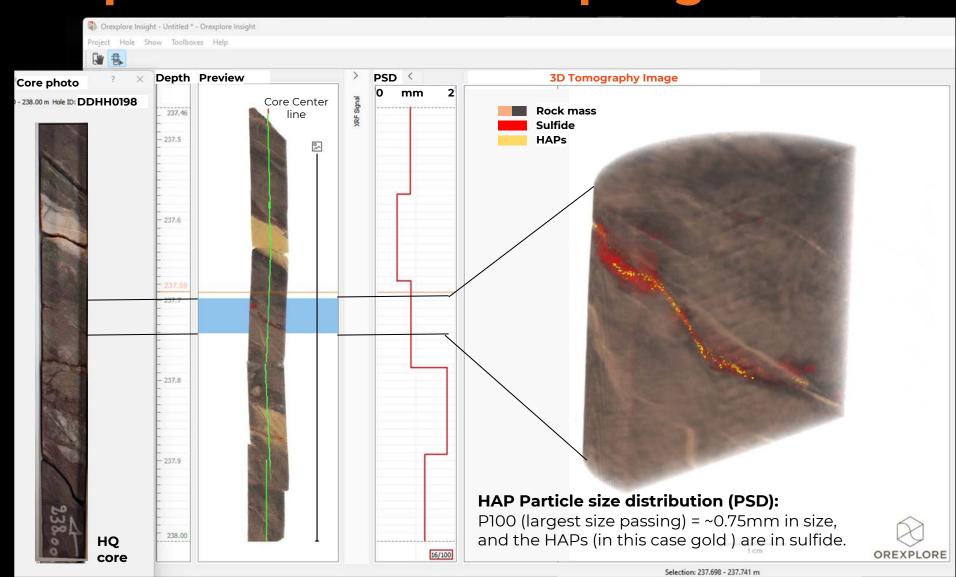




- 1. A single # does not reveal the personality of the rock.
- 1. Estimating gold abundance by VG or assaying half core is prone to bias.
  - → Whole core assay destroys the core, and with it the important rock information key to making significant decisions.
- 1. Gold by pXRF is limited to higher grades and only provides 1 # per spot.

**Case Study** 

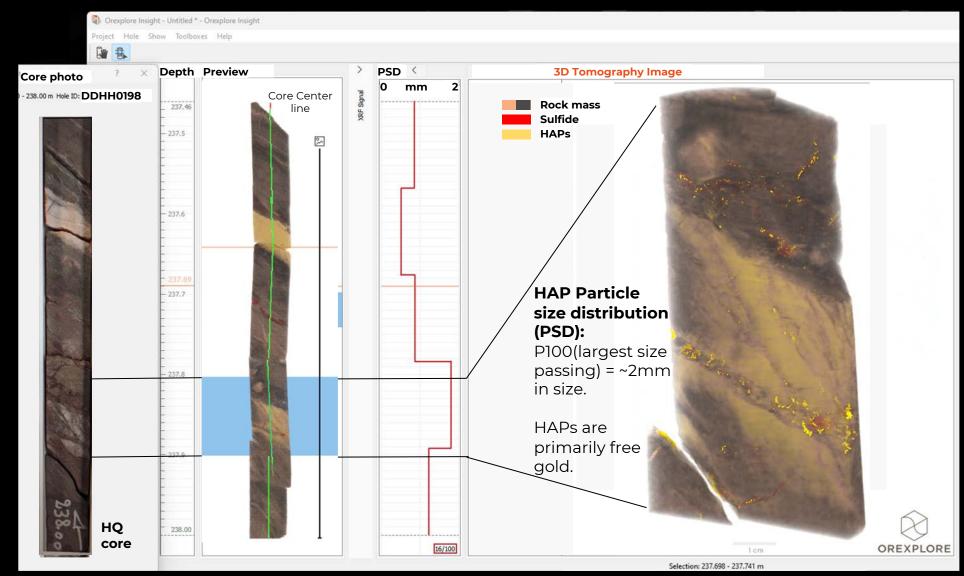
### **Gold - Deportment and Sampling**



Insight® software

**Case Study** 

### Gold - Deportment and Sampling



Insight® software

# Case Study Gold - I



### **Gold - Deportment and Sampling**



#### Solutions:

- HAPs (High attenuation particles), like Au stand out well in high energy X-ray Tomography
- 2. Identifying HAPs in 3D digital core volume + particle size tool revealed:
  - → free gold *AND* gold-in-sulfides present
  - → different gold mineral assemblages (= different timing)
  - → free gold is coarse

#### Outcomes & Implications:

- 1. particle characteristics + abundance = correct assay method selection = ↓ costs, ↓QAQC (time & \$ )
- 2. de-bottle neck assay ↔ modelling workflow
- 3. objectively model gold deportment domains
- 4. could choose not to assay barren core (!!)
- 5. informs smart capital spend, early!
  - a. coarse gold → gravity circuit
  - b. gold in sulfide → flotation circuit
- 6. grade control decision support



HQ Core photo











### Critical minerals

### Unique Technology - Market intersection

**Dual Energy** – a step change in the power of the results from the CT scanner, unlocking in-field ore sorting solutions for critical minerals customers

**High energy XRF** – delivering excellent REE discrimination compared to other technologies

**New solutions** – ore sorting, grade control and others

**Project enabling** – proving orebody sortability and ability to undertake operational grade control





# ersonal

### Case Study Graphite flakes





Photo credit: Miriam Doerr Martin Frommherz / Shutterstock. https://www.azom.com/article.aspx?A ticleID=1630

Problems: Most tonnes ≠ most value

1. Graphite flake size is related to graphite purity - both determine product \$\$:

```
>300um flake size = ~US$2000/t • least abundant in market <200um flake size = ~US$1000/t
```

<100um flake size = ~US\$450/t 

most abundant in market

- 2. Assaying graphite is time consuming and the extraction and preservation of size distribution is difficult.
- 3. JORC 2012 requires the competent person to ensure exploration samples are tested for appropriate parameters (i.e. market-related specifications) in addition to basic assay tests for graphitic carbon content.

### Case Study **Graphite flake**



#### Solutions

Initial tests show Graphite stands out well as a low attenuating particles (LAP) in XCT data

#### Outcomes

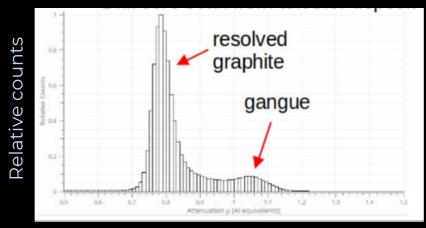
- large graphite flakes resolved
- 2. demonstrated some correlation of vol. concentration of LAP in XRT data with graphite assay concentrations → graphite grade proxy
- 3. possibly amenable to ore sorting

#### Further Implications

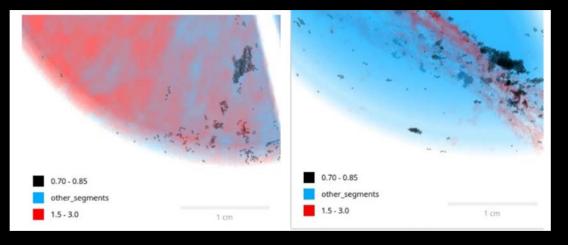
- detailed textural data is a key intelligent and informed selection of drill samples and potential DEPOSIT VALUE
- 2. if the value is present, defining (domaining) the geometallurgical characteristics of a deposit.



#### **XRT Attenuation Histogram From Core Sample**



Attenuation (Al units)



**Orexplore Insight 3D core images** - large graphite-like particles (black) and rock-forming minerals (red, blue).

### Increasing Market



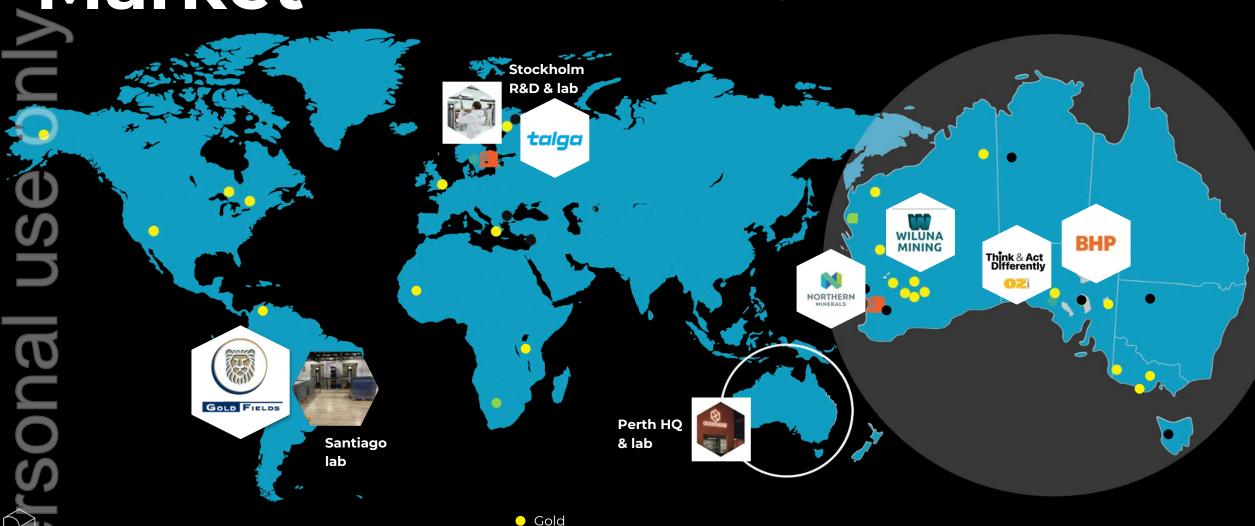




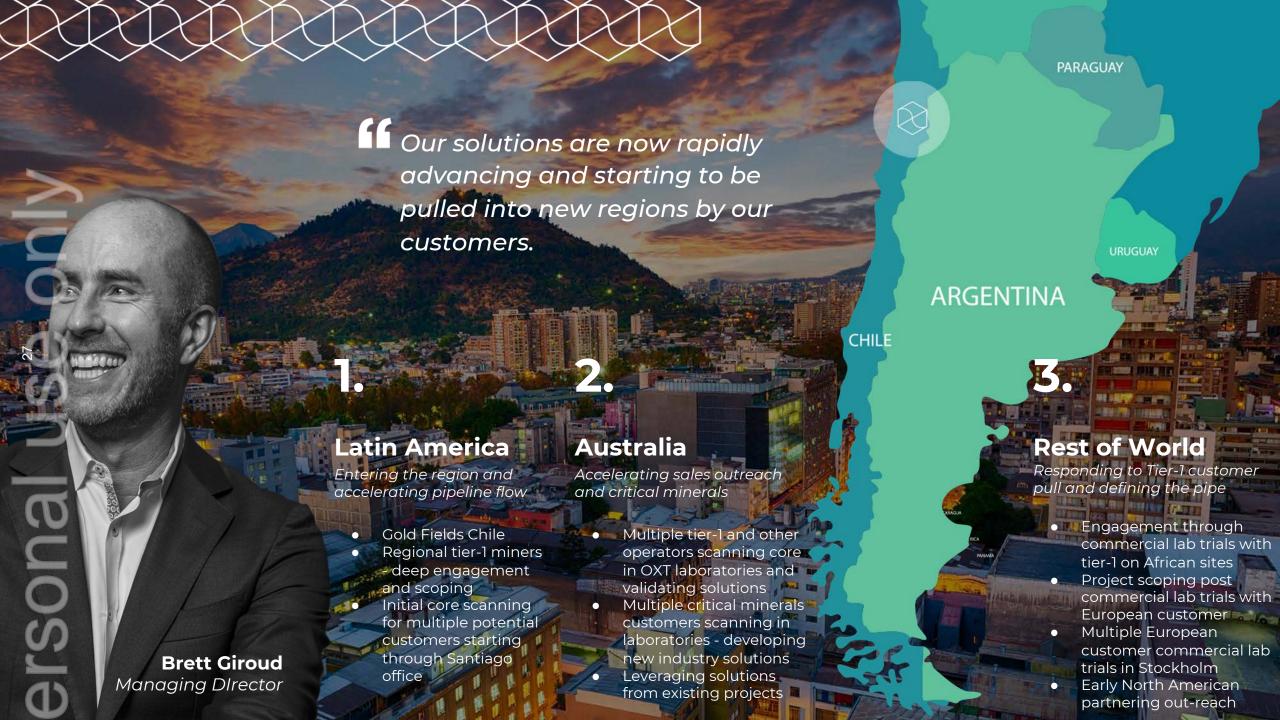








Base metals 26
Other metals



### Performance

• Strong revenue growth since initial ASX listing in January 2022.

H1FY23 revenue growth of 52% compared with H2FY22.

H1FY23 revenue 23% higher than full year FY22.

Resultant increase in cash receipts. (Q1FY23 receipts include ~\$327k of receipts in advance.)

Revenue increases driven by new contracts wins – both on-site operations and solution delivery and larger lab-based commercial projects.

Future revenue growth to be driven by recently announced new contract wins and strong sales pipeline across operating regions.

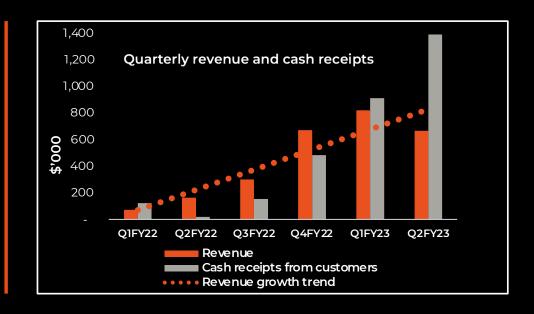
Increased business capability introduced across geology, sales, data-science and operations - supports solution development and customer delivery.

Improving operating margins expected on new projects.

Capex directed at GX10 machine manufacture and operational infrastructure.

Cash at 30 June 23 of \$3,056,000.

No debt in capital structure.



\$'000:	H1FY22	H2FY22	H1FY23
Revenue	237	975	1486
Net operating cash outflows	(3,160)	(2,818)	(3,100)
Capital expenditure	(707)	(440)	(625)

<i>\$'000:</i>	31 Dec 22	30 Jun 23
Cash	7,039	3,056
Debt	NIL	NIL

### Investment highlights



### Transformational technology

**True 3D** – CT scanner maps the entire 3D core volume, compared to surface only sensing

- Non-destructive drill and scan
   once to create digital twins for
   collaboration and future proofing
- Fast & simple operation results in an hour anywhere in the world
- Human-Machine automation –
  Insight® platform enables machine
  learning powered automation and
  analysis



#### Scaling

**Contracts** – Gold Fields, Oz Minerals, BHP and 10+ commercial OXT laboratory engagements

**Pipeline** – accelerating across three global regions

**Globally significant team** – industry leaders delivering transformation

**Hub and spoke** – centralised geoscience and support

Reliable, simple to operate - GeoCore X10® field units









### **Solutions** adoption

**Solution suite** – exploration, studies, operations, critical minerals, ESG

Solving industry pain points structural, persistent opportunities

**Creating customer value** - as they navigate global transitions

**Data-Geoscience powered** – scan once, create and capture value multiple times – SaaS future revenues



#### **Global growth**

**Large Total Available Market (TAM)** 

 drilling, core farms, base and precious metals – broad suite of minerals and elements

**Critical minerals enabler -** uniquely suited technology unlocking deposits and projects

**Global transitions enabler** – ESG, energy, digital, automation, and workforce

**Macro-resilient** - creating value through the cycles



#### OREXPLORE

**TECHNOLOGIES** 



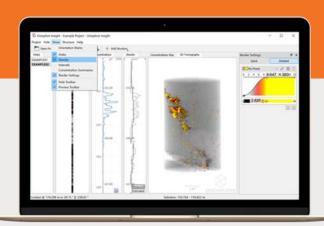
October 2023







# Technology offering















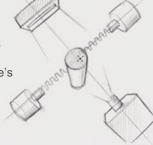
#### GeoCore X10 ®

#### **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 & non-core (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

### Mining transitions

Sustainable pain-points are combined with transformational new solutions to guide the strategic focus of Orexplore



#### **Digital Transformation**



**Sustainability** 



**Business** 



**Automation** 



**Metals Demand** 



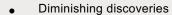
**Workforce Evolution** 



**Accelerating Value Chains** 



#### **Exploration**



- 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 techno-economics
- 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 Economics**Matching 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 prefiltering and driving operational efficiencies



#### **ESG**

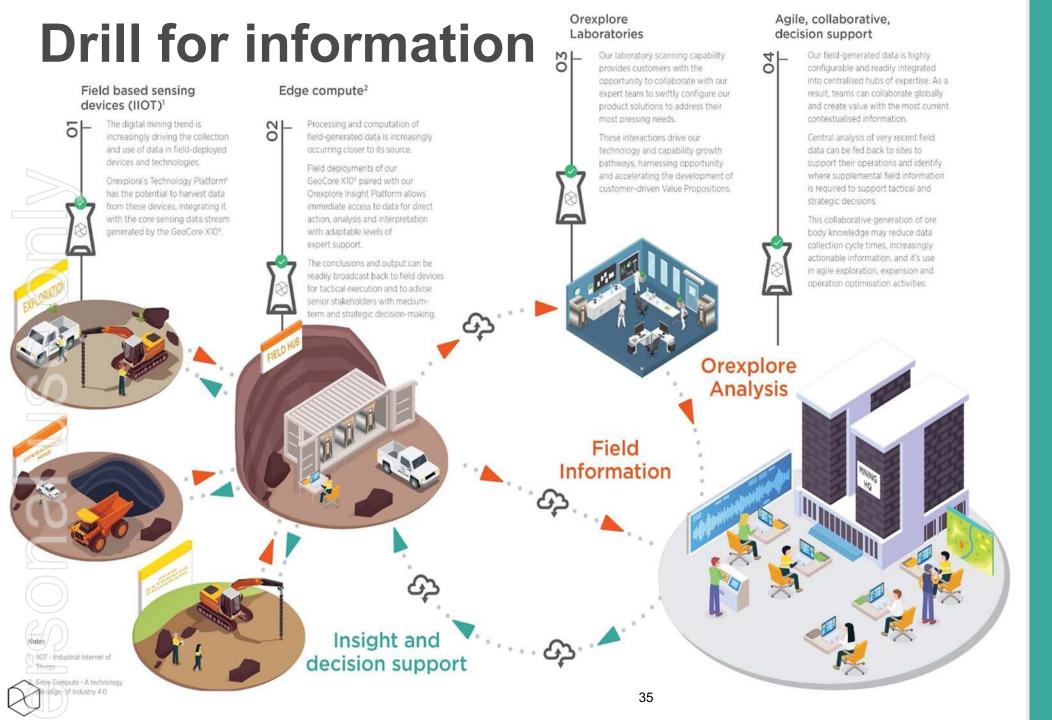
**Environmental controls** 

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











#### **Fast**

industry leading

Drilled to insight
remote analysis within 15m



#### Mobile

exploring with you

Anywhere in the world
rapidly transportable containers



#### Sustainable

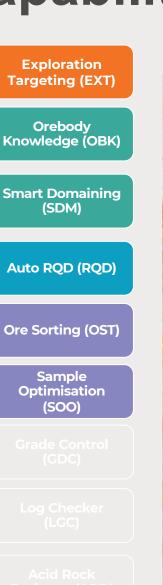
scan core

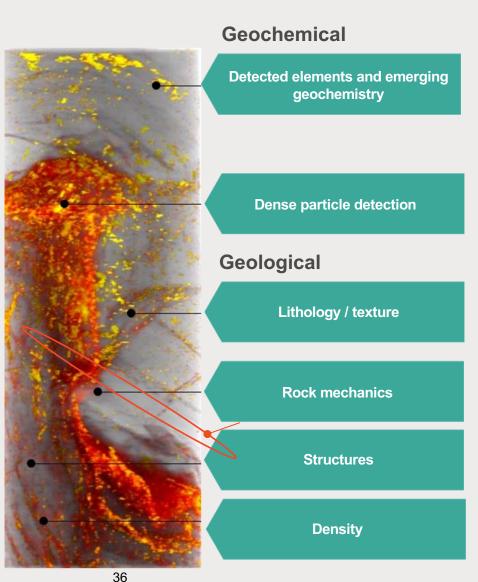
Transport information save time, money and emissions

### Technical capabilities & applications



control





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

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

Semi-automatic identification and logging of lithological features.

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

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

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



# **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

#### Will Randall

#### **Non-Executive Director**

Mr Randall has over 25 years of operational and executive experience in the Global Commodity and Mining Industries, operating across cultures, geographies, products and supply chains. Mr Randall was based in Asia from 1997 to 2020 with a critical focus on business development and supply chain strategies. He has served on the boards of various listed and private companies over this period.





### >Recent progress

#### **Solutions**

Auto RQD – linking structures to processing options.

Smart domains – challenging established block model boundaries

**Digital test proxies** – expanding limited slow and expensive test work across ore bodies

**Density** – high resolution automatic density reducing the inherent risk of "tonnes in the ground"

**Recoverability** – particles, elements, mineralogy and more driving optimised process options to maximise recoverability and study techno-economics





"We are building brand new solutions for the Industry - fed directly from near-real-time field sensed data and connected directly to a rapid study team"

**Stephen Coward - Principal Geoscientist Orexplore** 

# Recent progress Technology

**HQ machine** – now scanning up to HQ core size – circa 40% serviceable market increase

**Dual Energy CT** – a step change in the power of the results from the CT scanner, unlocking in-field ore sorting solutions for critical minerals customers

**Core engine** – major advances in the digital core models driving rapidly improving near-real-time elemental and mineralogical outputs direct from the field

**Orexplore Insight®** – customer driven quarterly releases of new functionality

**Future horizons** – advancing in-house designed next generation sensors

