

IMDEX 2022

The right tools and technologies provide an opportunity for meaningful change

EUROZHARTLEYS ROTTNEST ISLAND
INSTITUTIONAL CONFERENCE 2022

8 MAR 2022

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IMDEXTM

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**IMDEX IS A LEADING GLOBAL
MINING-TECH COMPANY.**

**WE ENABLE CLIENTS TO FIND,
DEFINE AND MINE OREBODIES
WITH PRECISION AND AT SPEED.**

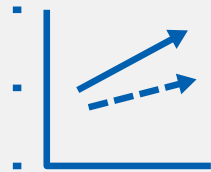


IMDEX™

A Strong Core Business in All Market Conditions



**A STRONG
FINANCIAL
PLATFORM**



**OUTPERFORMING
INDUSTRY
GROWTH**



**ABILITY TO
ACCELERATE
ORGANIC GROWTH**



**ESTABLISHED
GLOBAL CLIENT
NETWORK**



**MARKET
LEADING
TECHNOLOGIES**



**WORLD-CLASS R&D
AND GEOSCIENCE
CAPABILITIES**



**EXPERIENCED
AND DIVERSE
LEADERSHIP TEAM**



**ENHANCING
SUSTAINABLE
OPERATIONS**

PRESENTATION OVERVIEW

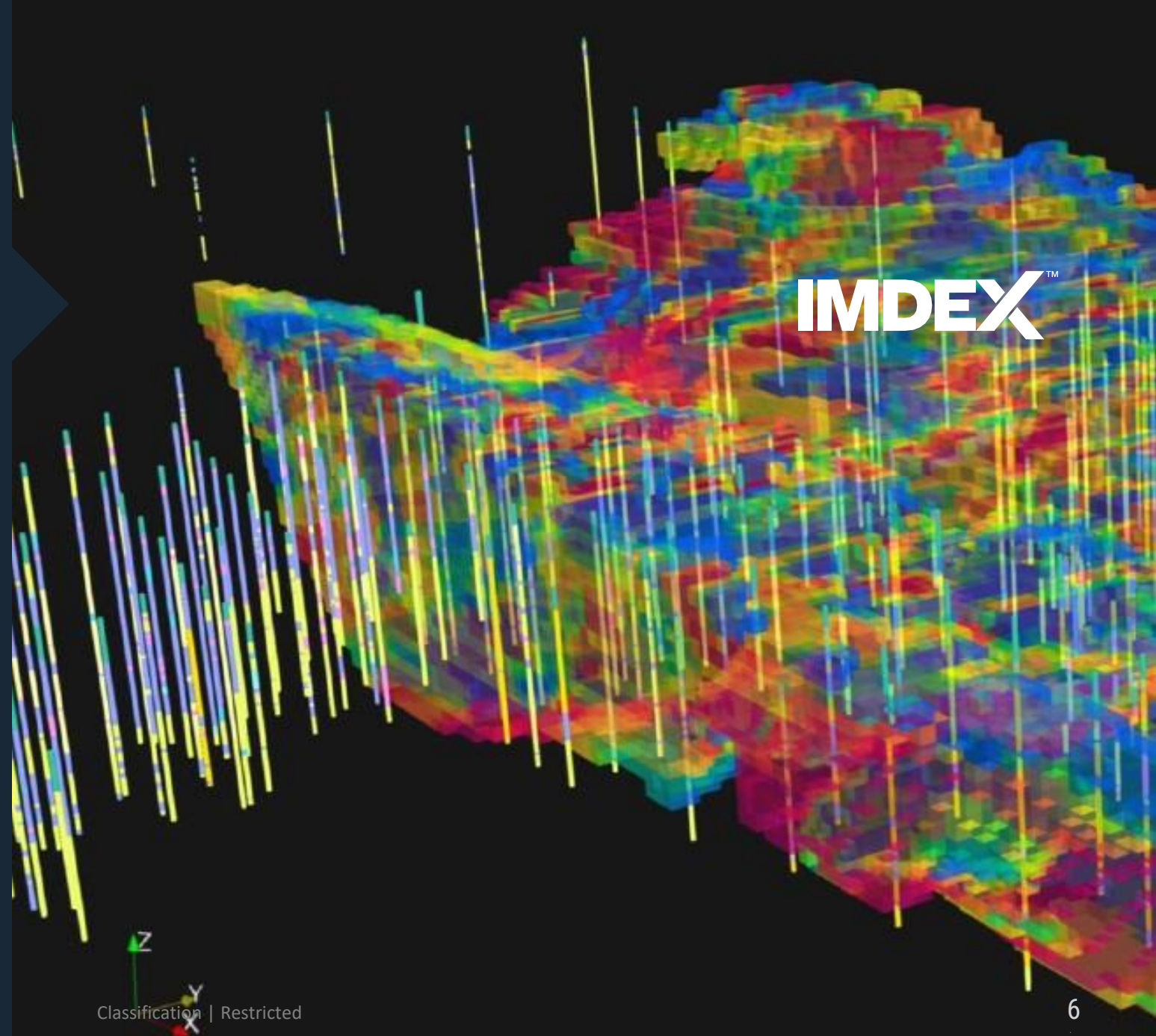


THE ROLE OF AI AND IOT TO
HELP THE RESOURCES
INDUSTRY ACHIEVE NET
ZERO

THE ROLE IMDEX PLAYS IN
AI AND IOT TO HELP
RESOURCE COMPANIES



**THE WORLD
NEEDS MINING...
AND MINING
NEEDS TO
CHANGE**



Industry Opportunity: Increasing demand for minerals used in clean energy technology

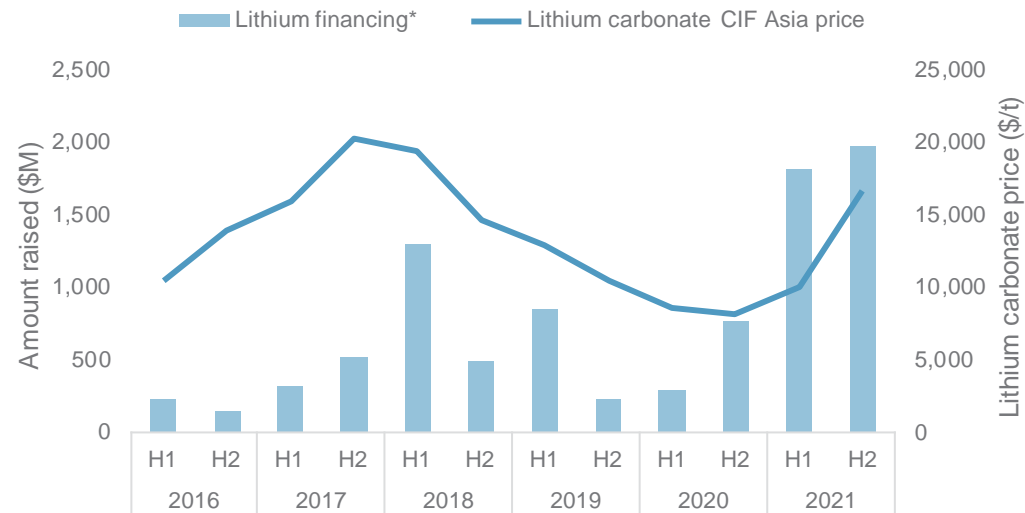


- For the world to achieve its net-zero goals, the aluminum, copper and nickel industries need to double in size by the late 2020s, while lithium and cobalt mining would need to increase five-fold

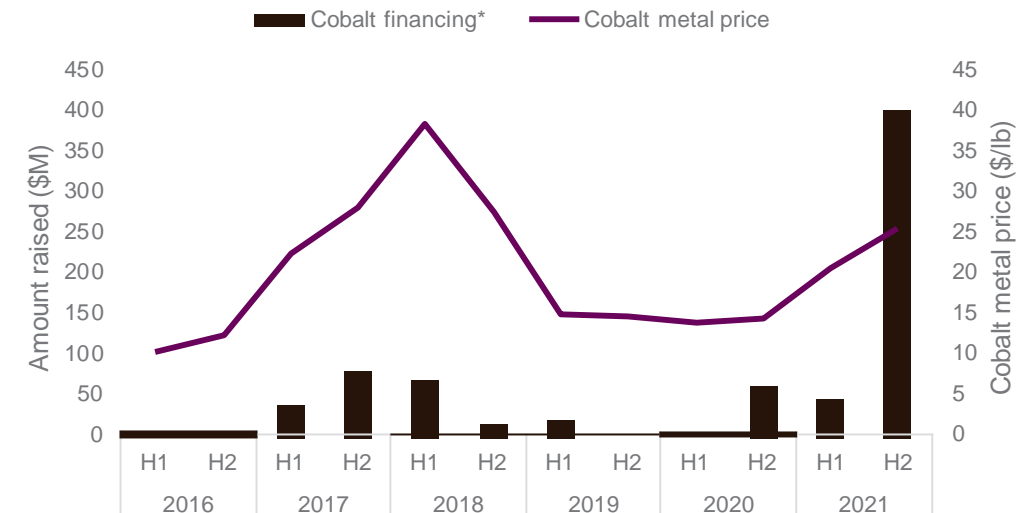
- Clean energy needs will escalate the demand for rare earth minerals by nearly 500% by 2050

WOOD MACKENZIE

Lithium financing up 256.7% YOY in 2021



Cobalt financing surged in H2'21: 22.9% higher than 2016-20 combined



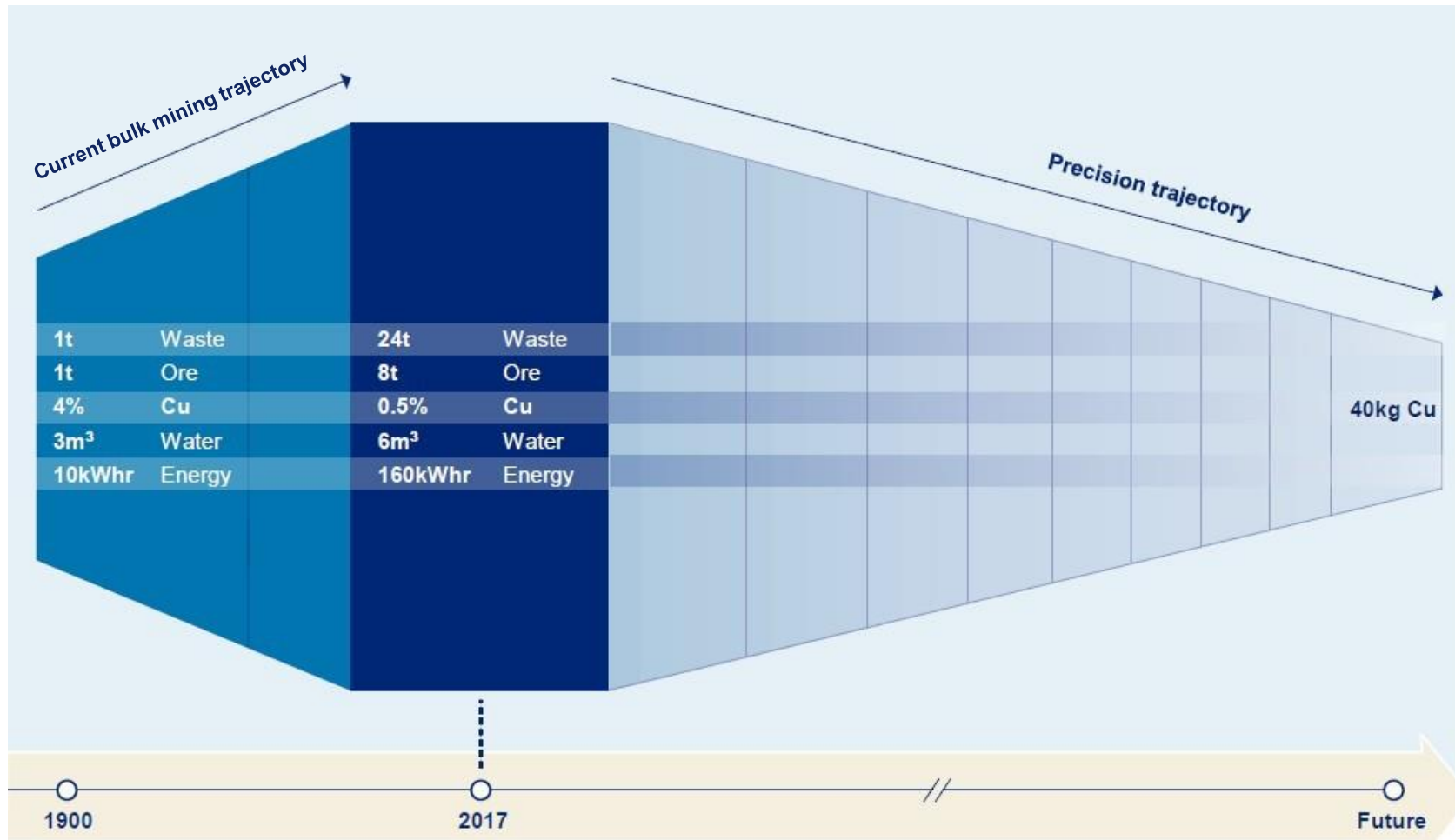
Data as of Jan. 24, 2022

Financing raised by junior and intermediate mining companies

Historical lithium prices refer to Benchmark Mineral Intelligence assessment, min 99.2% Li₂CO₃; historical cobalt prices refer to the London Metal Exchange cobalt cash price for min 99.8% Co.

Sources: S&P Global Market Intelligence; Benchmark Mineral Intelligence; London Metal Exchange. Restricted

Industry Challenge: Mining in a way that minimises emissions



THE MINING SECTOR IS CURRENTLY RESPONSIBLE FOR 4% – 7% OF GREENHOUSE-GAS EMISSIONS GLOBALLY* AND IS A MAJOR TARGET FOR GOVERNMENTS

“We are the first generation to feel the effect of climate change and the last generation who can do something about it.”

PRESIDENT OBAMA 2014

A plan is not a guarantee. A timely transition to a net-zero future is no sure thing. But though I may be less optimistic than some, consider me hopeful – and impatient.

With the right tools and technology, with precision-honed policies, and most of all with science on our side, we still have a fighting chance.

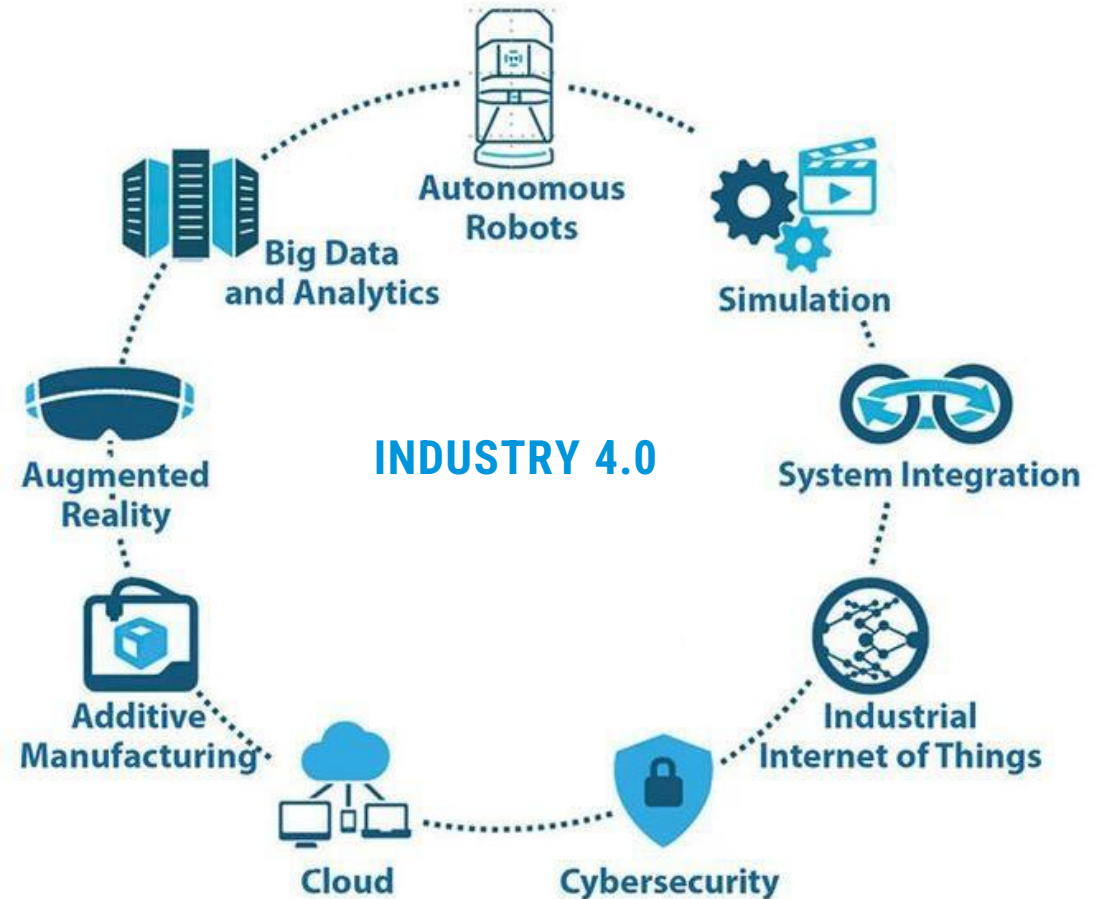
JOHN DOERR 2021 (Speed & Scale)

**THE ROLE OF
AI AND IOT
TO HELP
THE
RESOURCES
INDUSTRY
ACHIEVE
NET ZERO**

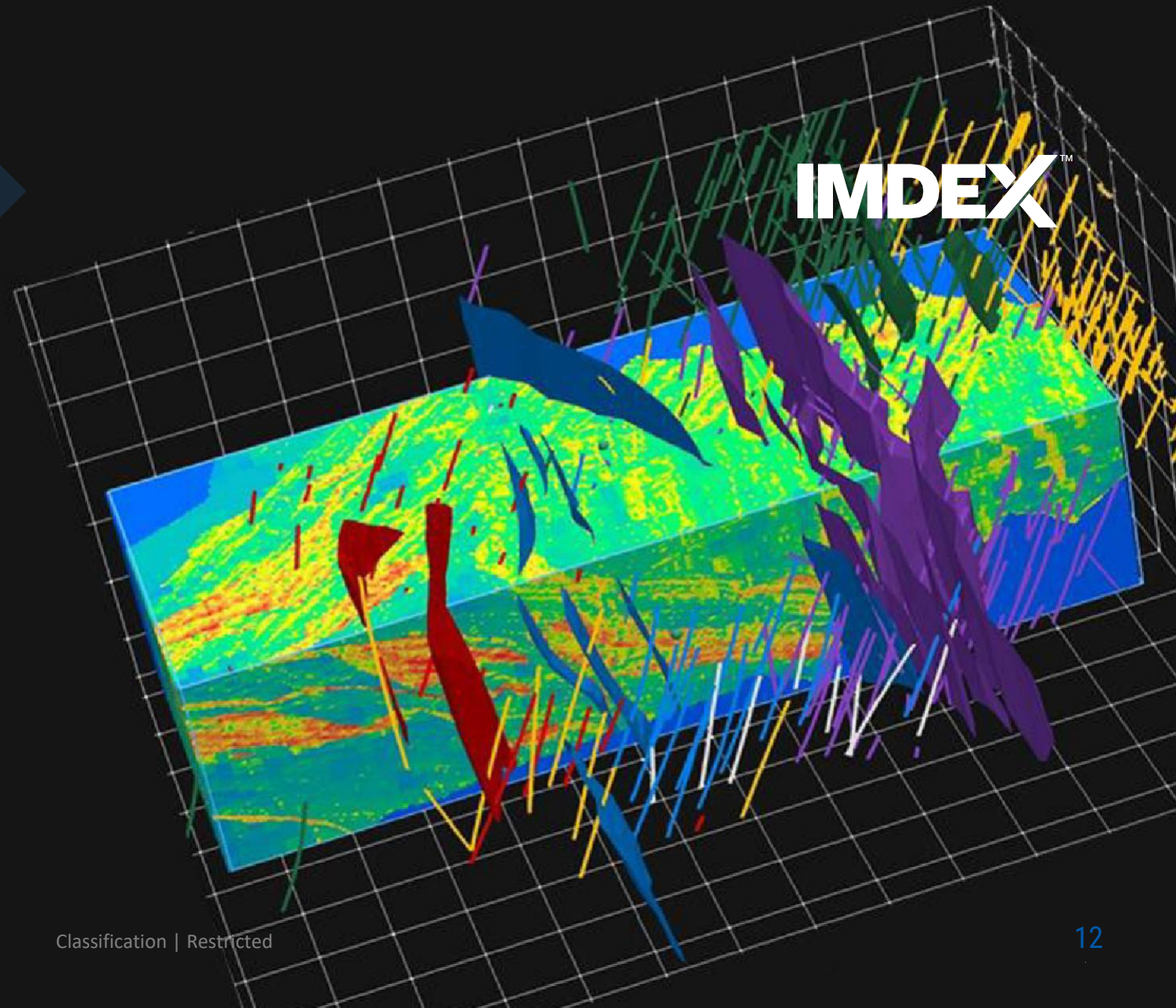
IMDEX™

Each Industry 4.0 solution has an AI + IoT platform at its core, but multiple technologies are needed for it to succeed

- Intelligent, autonomous systems can leverage complex data sets and machine learning to deliver AI-driven enhancements in real-time
- The technology exists and is available throughout the mining value chain – to date the focus has been on equipment and infrastructure performance
- By 2035 autonomous mining using data analysis and technologies like AI will save the mining sector between US\$290bn - US\$390bn annually*



**THE ROLE
IMDEX PLAYS
IN AI AND IOG
TO HELP
RESOURCES
COMPANIES**



Why IoG?

IoG

IoT

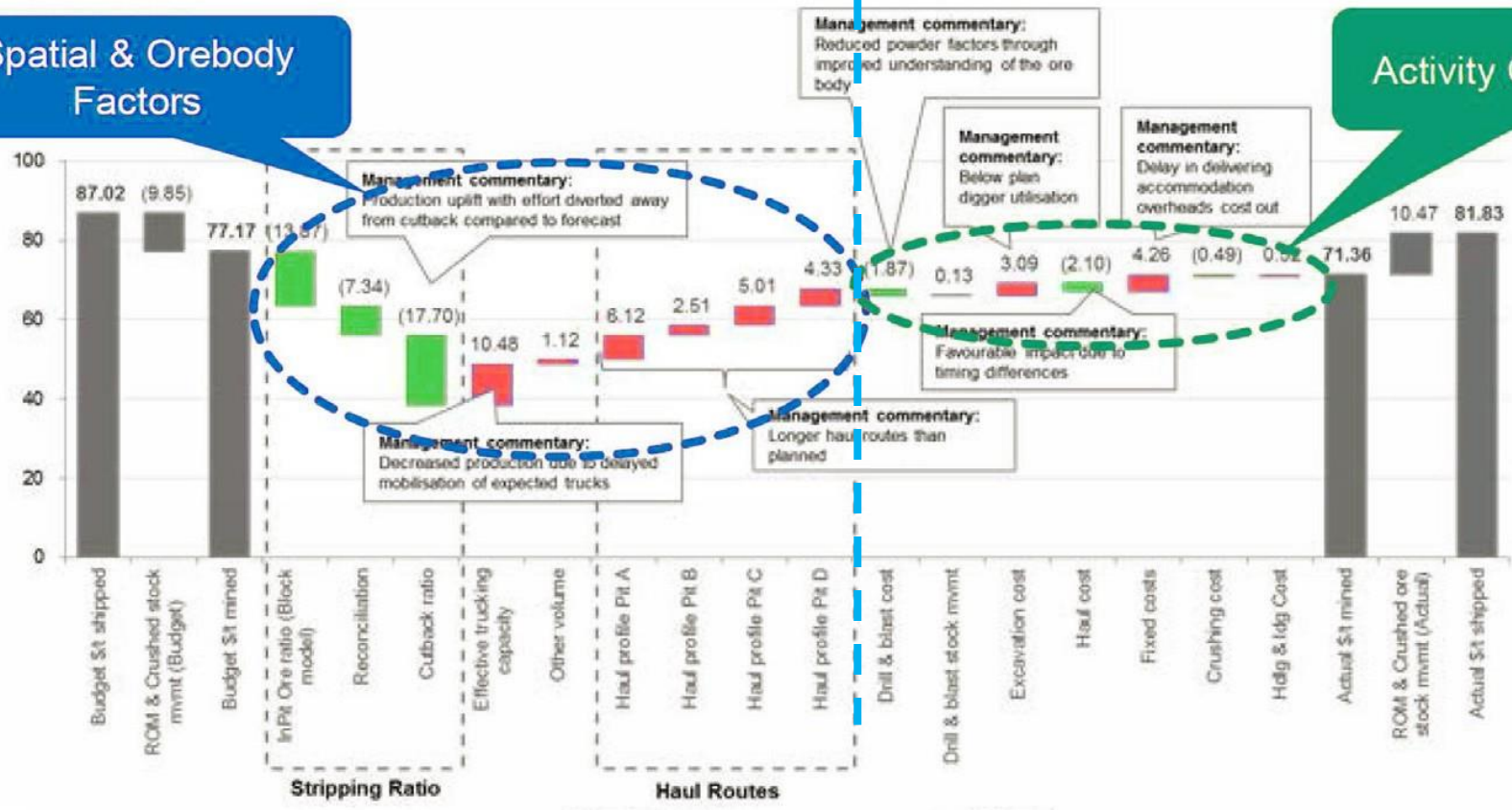
MONTHLY COST PER SHIPPED ORE TONNE

Unit: \$ per tonne

■ Favourable movement
■ Unfavourable movement

Spatial & Orebody Factors

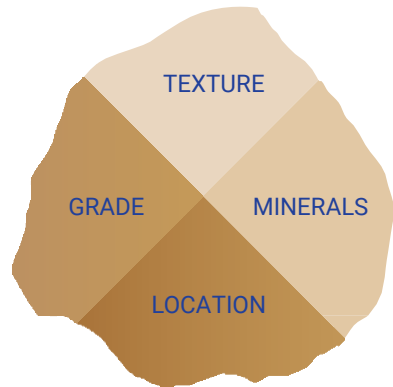
Activity Cost Drivers



THE BIG LEVERAGE AREAS ARE TYPICALLY RELATED TO THE SPATIAL AND OREBODY FACTORS

What is IoG?

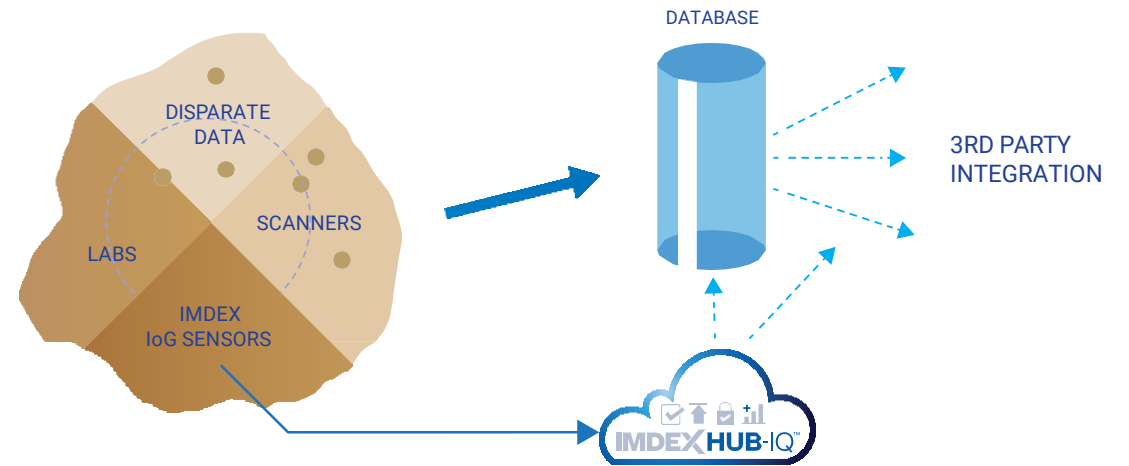
What is rock knowledge?



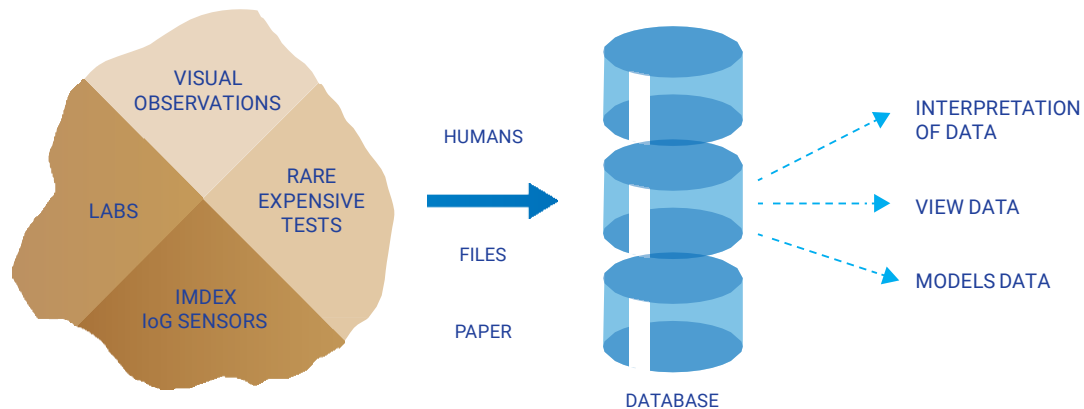
WE USE THESE PROPERTIES FOR:

- MINERALISATION POTENTIAL
- GRADE
- HARDNESS/BLAST-ABILITY
- PROCESSING ORE ETC

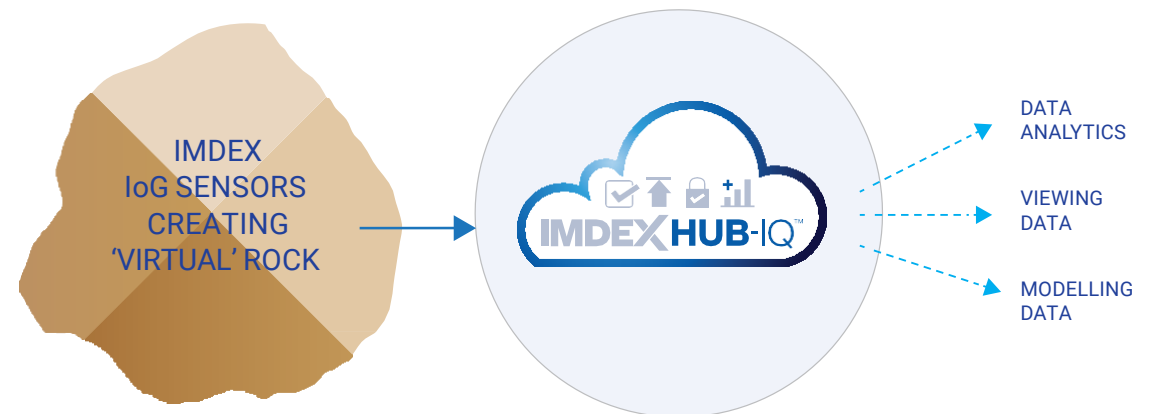
Current world view of rock knowledge



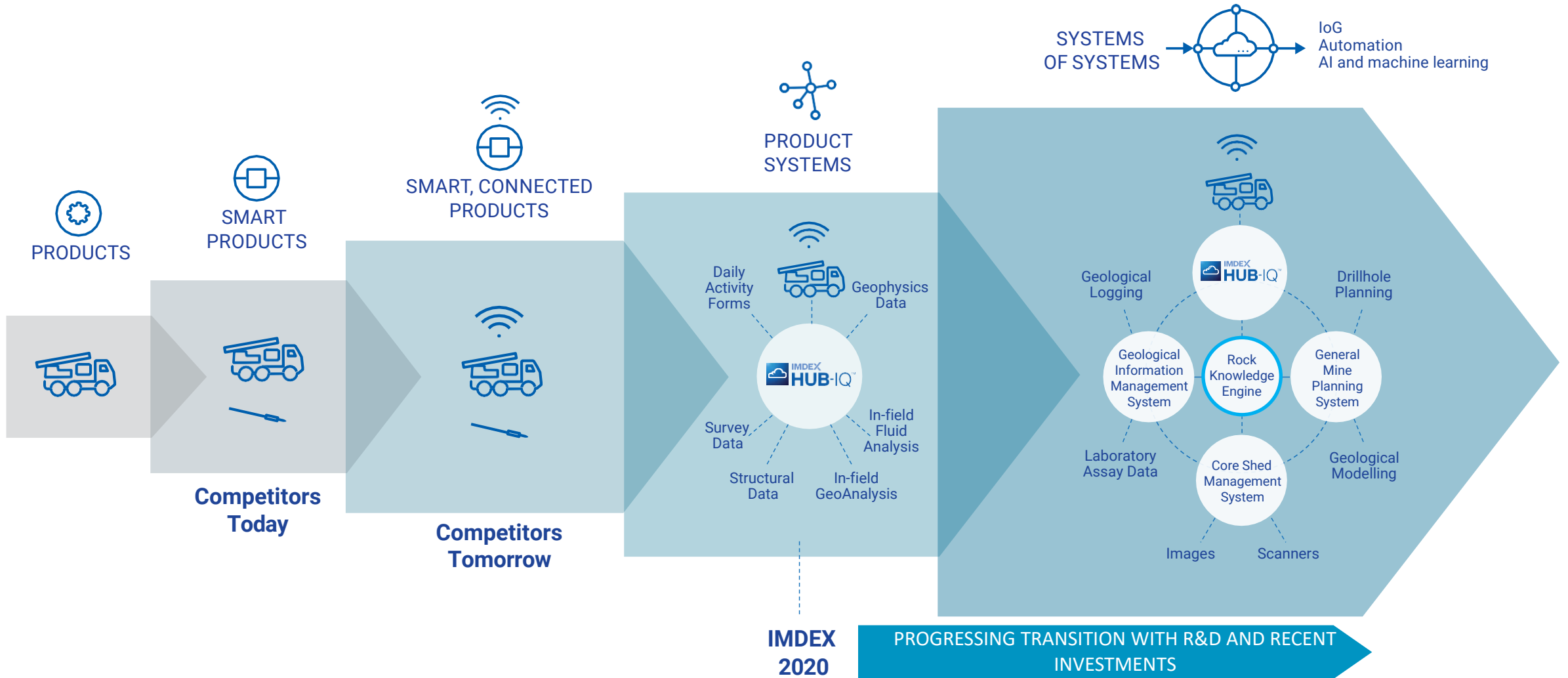
Traditional view of rock knowledge



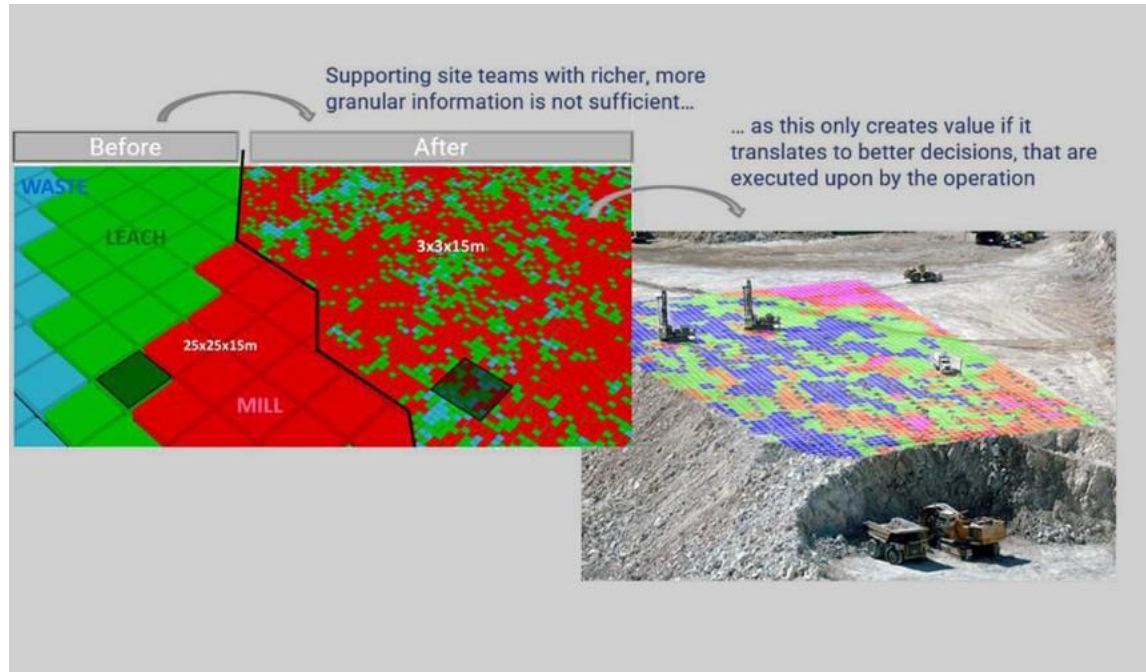
Why IMDEX is building rock knowledge



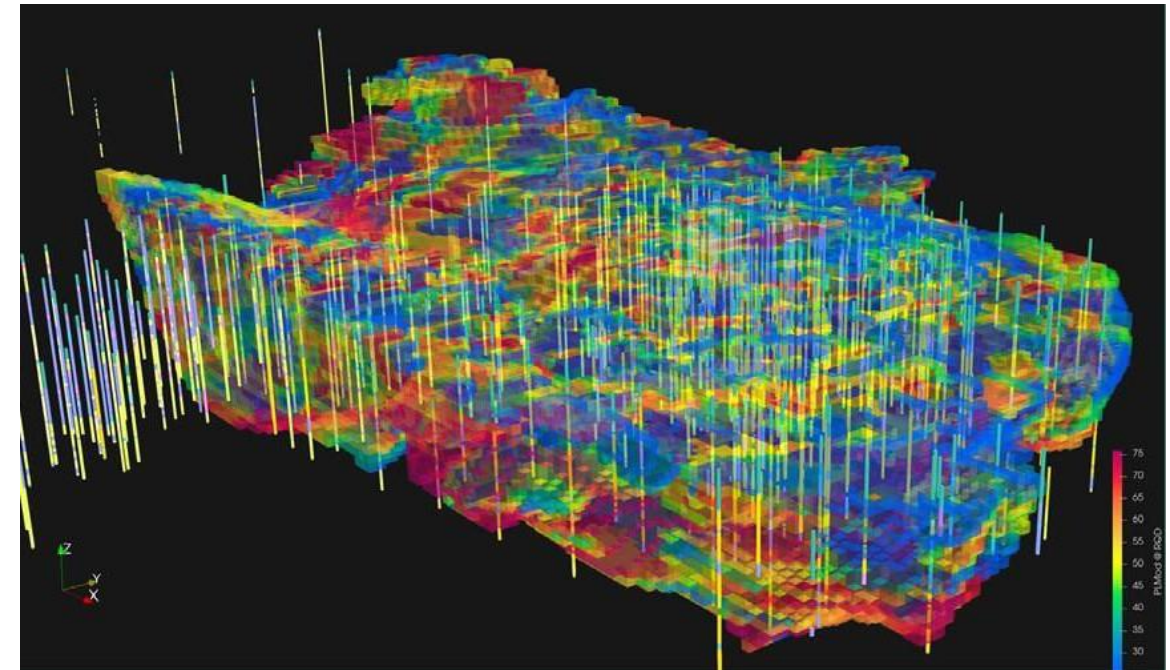
IOG is not new to IMDEX



Precision mining based on IoG – brought to life by MinePortal Software

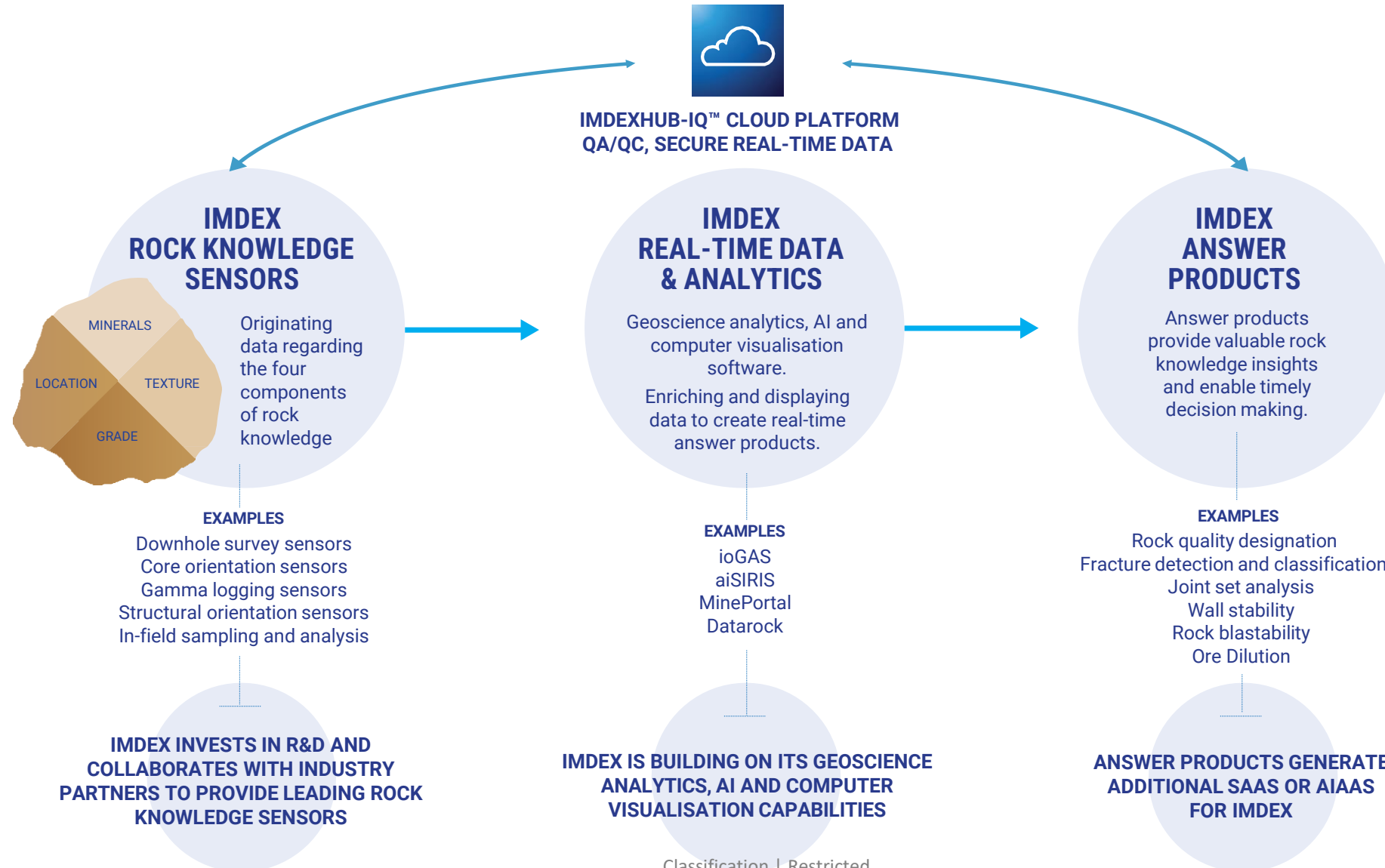


GRANULAR DATA TO SUPPORT
PRECISION MINING



MWD VISUALISATION IN MINEPORTAL
OVERLAID WITH AUTO BUILT BLOCK-MODEL

Our Integrated Rock Knowledge Engine



Our Rock Knowledge Engine in action delivering automated mineralogy



IMDEXHUB-IQ™ CLOUD PLATFORM
QA/QC, SECURE REAL-TIME DATA

CUSTOMERS COLLECT INFRARED SPECTRA FROM ROCKS TO IDENTIFY IMPORTANT MINERALOGY



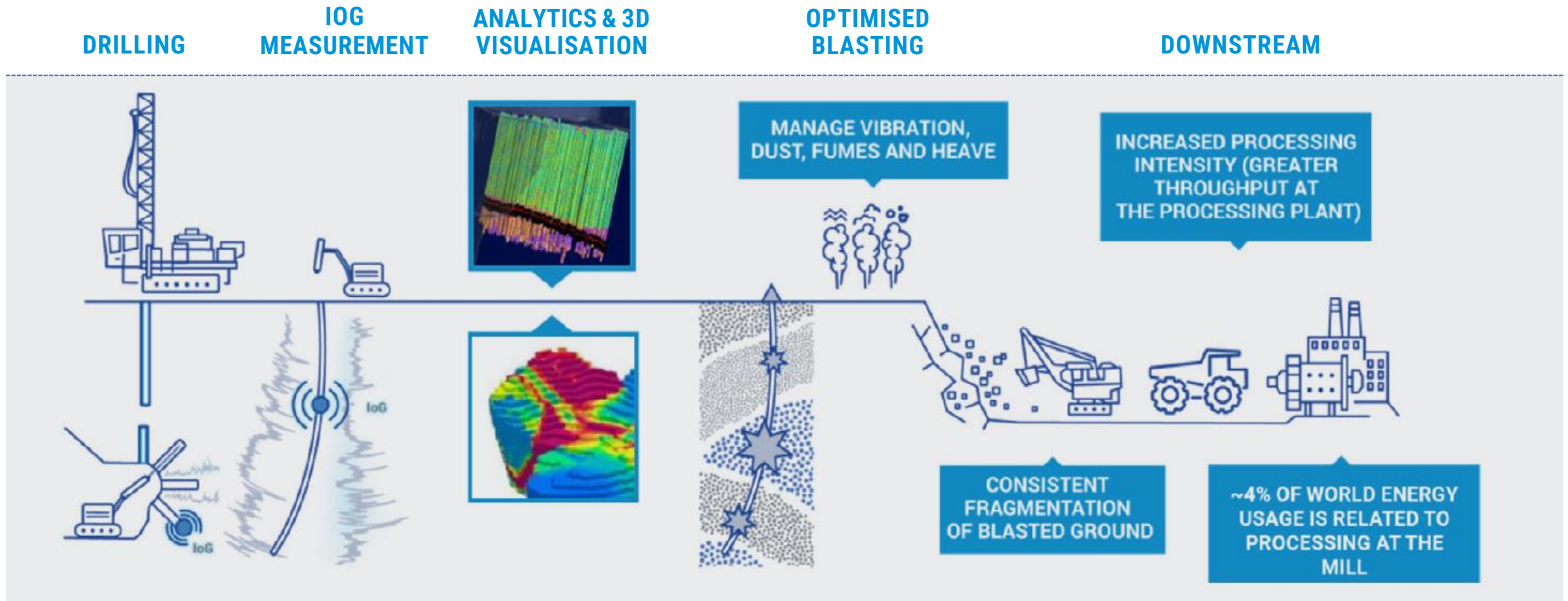
AIX MAKES RAPID AND ROBUST PREDICTIONS OF MINERAL CLASSES, WHICH UNDERGO QA-QC BY SPECTRAL EXPERTS



RESULTS ARE DELIVERED TO CUSTOMERS AS MINERAL CLASSES, PROBABILITY OF MINERAL BEING PRESENT, SPECTRAL FEATURES, AND VN-SWIR SPECTRA, WHICH CAN BE VISUALIZED IN MULTIPLE WAYS



Accelerating IMDEX BLASTDOG™



IMDEX BHS™
Drill once, stabilising the walls of the hole to reduce fallback

IMDEX BLASTDOG™
Holes are logged using IMDEX multi-sensor, which measures physical properties

IMDEXHUB-IQ™ & MINEPORTAL
Analytics are applied to produce Rock Knowledge answer products (top) and 3D block models (bottom)

Use the Rock Knowledge as input to the blast design via **IMDEXHUB-IQ™**

Mitigate risk and negative impacts on the blast by measuring hole gauge and reducing redrilling and improving the blast outcome

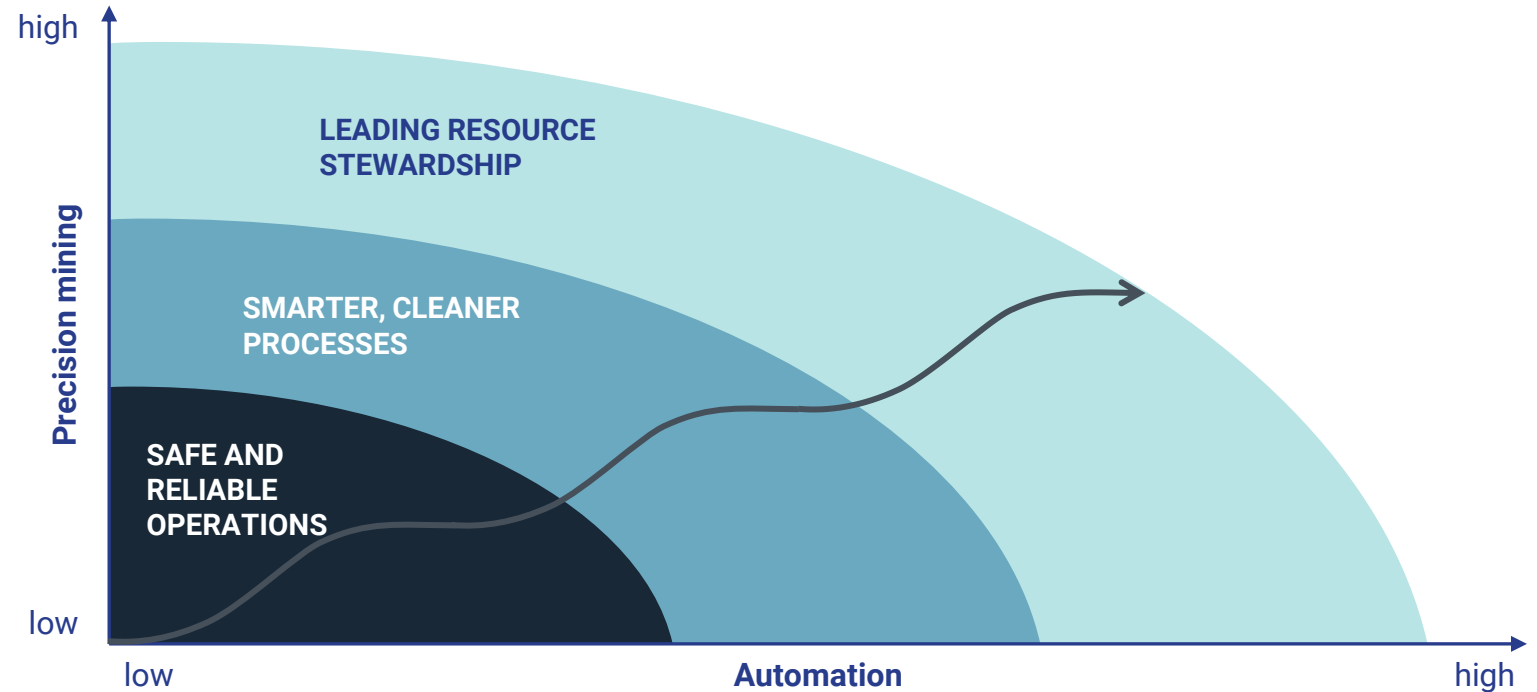
Enhance productivity for resource companies

BLAST DOG™ using IoG and automation to deliver ESG and production benefits



BLAST DOG DATA AND ANSWER TOOLS

- Improve the confidence of geoscience interpretations and verify existing resource and reserve assumptions
- Establish a reliable source of data for downstream optimisation – essential for the Internet of Geoscience (IoG) and optimising the entire mining value chain
- Capture data in IMDEXHUB-IQ™ and integrate with existing mine data
- Supports data-driven decision making and automation
- Assess drilling performance immediately and reduce costly redrills
- Measure and record multiple physical properties at once from production drill holes
- Gain valuable rock knowledge via analysis to inform operating decisions



IMPROVED SAFETY, ESG AND PRODUCTION OUTCOMES

- Eliminate manual processes and remove people from the bench
- Improve the blast design to achieve consistent fragmentation of blasted ground and manage dust, vibration, fumes and heave
- Visualise geotechnical features and reduce uncertainty
- Improve resolution when identifying ore boundaries, reactive ground or material domains
- Optimise mining practices to improve ESG performance (reduced emissions and fumes, improved waste management practices)
- Improve resource stewardship by improved decision making in processing, waste management and value-in-use of products
- Optimise mine planning across the entire value chain can unlock significant productivity benefits ('mine to mill' and 'mine to customer' mindset)

**ESG
INSIDE AND
OUTSIDE
IMDEX**



IMDEX™

Our ESG Committee focus areas

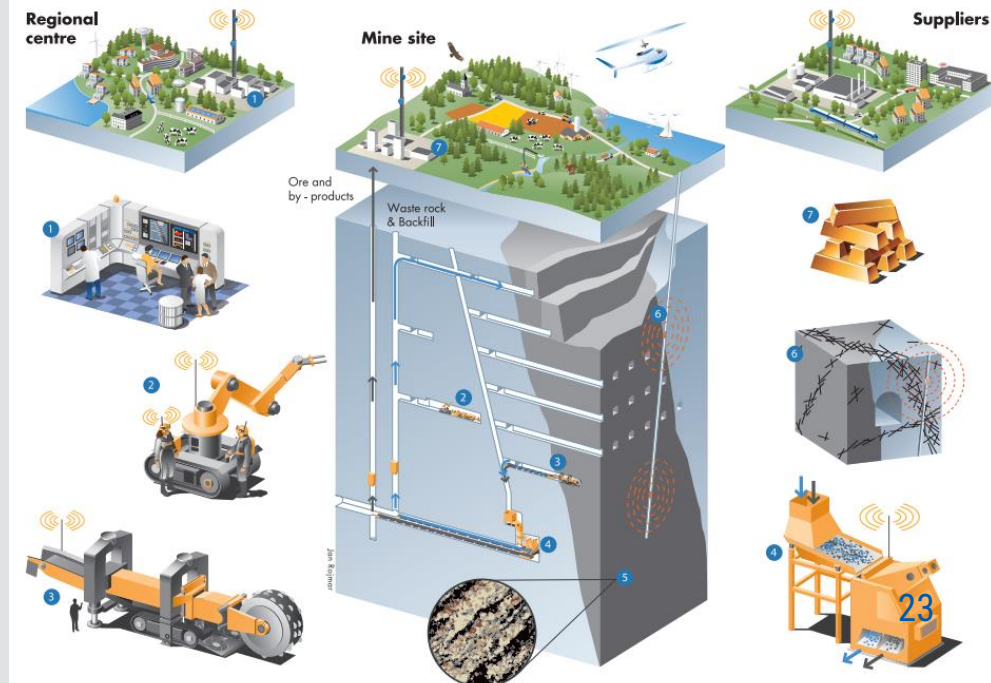


Upholding Ethical and Sustainable Business Practices	Conducting business in a manner that is ethical, values-driven and in compliance with the laws in all countries of operation Ensuring activities and the organisations IMDEX works with are ethical and do not harm people or the environment
Ensuring a Safe and Inclusive Global Workplace	Providing a working environment that is safe and supports total wellbeing Promoting diversity in the workplace and an inclusive culture across IMDEX
Supporting Economic Development and Our Local Communities	Maximising value and providing sustainable earnings growth Increasing the accessibility of information regarding the Company's ESG related risks and opportunities for all stakeholders Supporting the local communities in which we operate
Contributing to a Low Emissions Future	Developing products and technologies that reduce green house gas emissions Reducing IMDEX's emissions with an aspirational target of net zero
Driving the Sustainability of the Global Minerals Industry	Developing products and technologies that provide additional value to clients' operations and ensure secure quality data Collaborating with associations and research partners to enhance the safety and efficiency of mining processes

IMDEX is well positioned to benefit



- Demand for minerals used for clean energy presents a significant opportunity
- The mining industry must change to achieve net zero targets
- The challenge is to mine with limited emissions
 - rock knowledge based on IoG and AI principles enable this
- Increasing demand for real-time orebody knowledge and smarter mining practices
- IMDEX IoG sensors enable a virtual rock for critical analysis and modelling further upstream – precision mining
- IMDEX's IoG systems of systems is well advanced



Thank you



We believe mining is essential to every aspect of modern life.

Our opportunity is to change the global minerals industry forever.

FOR FURTHER INFORMATION
PLEASE CONTACT:

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KYM.CLEMENTS@IMDEXLIMITED.COM

"IMDEX has a strong core business that consistently outperforms industry growth.

"Our investment in R&D ensures we have the best suite of products to maintain technical leadership and increase market share.

"Our global presence is unrivalled. This provides a compelling opportunity to embed real value for clients and maximise revenue and earnings for IMDEX.

"Our technologies enable us to provide critical insights right through-out the mining value chain. Leveraging our core competencies within the larger less-cyclical mining production market, is a natural extension.

"Our strong cash generation and balance sheet allows us to make on-strategy acquisitions as they present. These acquisitions complement our product offering and are consistent with our technology development road map to deliver advanced real-time orebody knowledge.

"These are the growth opportunities that we believe in and are pursuing for our shareholders. Our opportunity is to change the global minerals industry forever."

PAUL HOUSE IMDEX CEO