The essential role of mining-tech in meeting emerging global demands and how IMDEX is positioned to benefit

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"We need to get to the point where society views mining as necessary for the wellbeing of its own existence."

TONY O'NEIL, ANGLO AMERICAN 10 NOVEMBER 2020



A quick review of the trends that are driving activity in commodities

Megatrends shaping commodity markets over the coming decade



	Megatrend	Description			
	Middle class development	Rise in urbanization and growing share of middle classes wealth globally will continue to drive demand for metals			
\bigcirc	China	Increasing role of China as a global leader, with growing impact on commodity markets			
	Consumer habits	COVID behavioral changes expected to remain e.g. remote working, partial reverting of sharing economy, etc.			
(4)=	Electrification	Step change in power availability in undeveloped regions (i.e. currently "off-the-grid")			
	Recycling	Increase in recycling rates expected, driven both by carbon footprint & scrap availability			
	ESG	Increasing importance of Environmental Social and Governance aspects which have lasting impact on the mining sector			
00	Resource nationalism	Increasing resource nationalism through protectionism measures (e.g. import tariffs, export restrictions, royalty changes)			
	Digitization	Increasing pace of digitization across the value chain to increase efficiency and maximize profits			
Source: McK	insey Basic Materials Insights, Mine	Spans			

COVID-19 has compressed events that were expected to play out over the next several years into a short few months

54 countries have responded with >USD 10 tr in stimulus

- China to focus on infrastructure upgrades with high-tech applications e.g. big data centers, 5G infrastructure, EV charging – IO, coal, Cr, Ni, Zn, Cu, Al
- EU Green Deal to set aside 25% of EU funds for climate action e.g. renewable energy, electric vehicles, and sustainable buildings Li, Co, Ni, Cu, Al

USA, under Joe Biden, to fast-track the transition to renewables and clean energy – Li, Co, Ni, Cu, Al

COVID-19 is accelerating key trends shaping the global economy

McKinsey & Company

4

Decarbonisation — reaching a tipping point



A genuine commitment to decarbonisation is being driven from all corners of our global economy

What minerals will be impacted?
What are the opportunities for IMDEX?



CONSUMERS ARE
BECOMING INCREASINGLY
CONCERNED ABOUT
ENVIRONMENTAL ISSUES
AND ARE DEMANDING
SUSTAINABLE CHOICES

DOWNSTREAM CUSTOMERS ARE SECURING CONTINUITY OF SUPPLY FOR CRITICAL METALS GOVERNMENTS ARE
MANDATING CHANGE AND
ARE INVESTING IN
RESEARCH AND
DEVELOPMENT AND
INFRASTRUCTURE

INVESTORS AND
FINANCIAL INSTITUTIONS
SUPPORTING
SUSTAINABILITY

The growing role of minerals for a low carbon future



	Power Applications			Automotive	Industrial Applications		
	Wind	Solar Photovoltaic	Energy Storage	Electric Vehicles	Electric Motors	Carbon Capture and Storage	Light Emitting Diodes
Aluminum	✓	✓	✓		✓	✓	✓
Chromium	✓					✓	✓
Cobalt			✓	✓		✓	
Copper	✓	✓		✓	✓	✓	✓
Nickel	✓	✓	✓	✓		✓	✓
Silver	✓			✓			✓
Lead	✓	✓					✓
Lithium				✓			
Zinc		✓					✓
Indium		✓				✓	✓
Neodymium	✓			✓			
Molybdenum	✓	✓				✓	✓

66 One can argue about both the pace and scale of the energy transition but the criticality of metals to its realisation is without question... the energy transition starts and ends with metals.

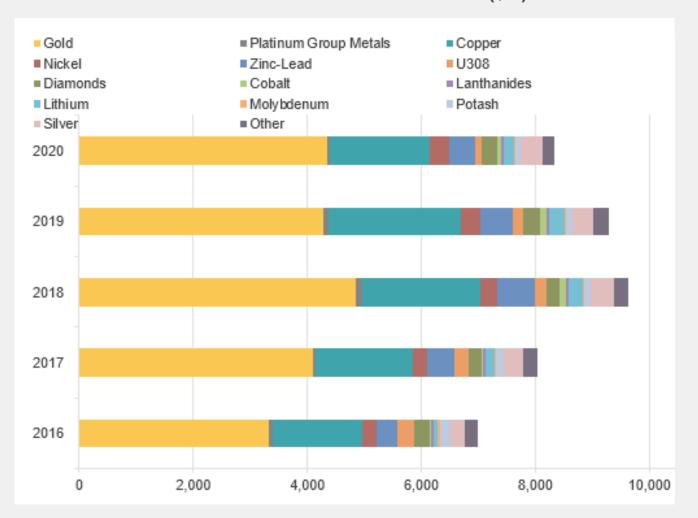
If you want to generate, transmit or store low/no-carbon energy you need aluminum, cobalt, copper, nickel and lithium.

WOOD MACKENZIE

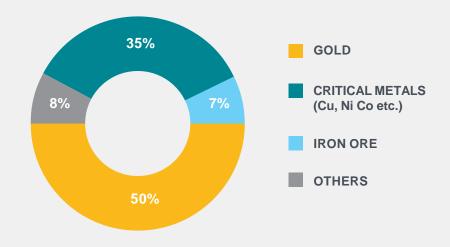
Exploration budgets and commodity exposure



GLOBAL EXPLORATION BUDGET BY COMMODITY (\$M)



IMDEX ESTIMATED COMMODITY EXPOSURE



- IMDEX commodity exposure is representative of global exploration budgets
- ~35% of IMDEX revenue currently comes from critical metals
- Exploration expenditure on critical metals is expected to grow at a faster rate
- IMDEX product offering is commodity agnostic and is applicable throughout the mining value chain

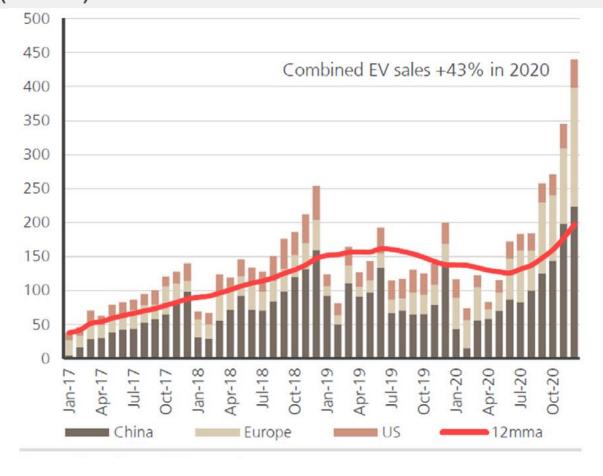


DEMAND DRIVERS

Demand drivers – consumers



CHINA/EUROPE/US ELECTRIC VEHICLE SALES (K UNITS)



- Electric vehicle sales are tipped to increase, pushed higher by improved batteries, more charging infrastructure, new markets and prices compared with internal combustion engine vehicles
- Electric vehicles are predicted to be 10% of global passenger sales by 2025; 28% in 2030; and 58% in 2040
- Bloomberg forecasts by 2040 there will be a need for 12 million charging points, each requiring about 10 kg of copper

Demand drivers – governments



NATIONAL GOVERNMENTS SPEND ~\$15 BILLION ANNUALLY ON R&D FOR CLEAN ENERGY TECHNOLOGIES INFRASTRUCTURE
DEVELOPMENT INCLUDING
ELECTRIC TRANSITION
LINES OR HYDROGEN
PIPELINES

PROCUREMENT PRACTICES INCREASINGLY FAVOUR LOW CARBON CONTENT

FISCAL SUBSIDIES TO REDUCE THE COST OF DECARBONISATION FOR BUSINESSES MANDATES PROHIBITING
THE USE OF FOSSIL FUELS
OR REQUIRING THE USE OF
LOW-CARBON TECHNOLOGIES

CARBON PRICES AND INCENTIVE PROGRAMS TO CUT EMISSIONS

US POLICY

The new US administration aims to be carbon neutral by 2050 by investing \$2 trillion in clean energy and decarbonising the power sector by 2035

EU POLICY

The EU aims to be climate neutral by 2050, to be enforced via a European Climate Law

CHINA POLICY

China plans to be carbon neutral before 2060

Demand drivers – downstream customers



TESLA'S RELUCTANT COMMITMENT TO COBALT A WARNING TO OTHERS.

Tesla's not the first auto company to lock in future cobalt supplies with a miner. BMW did the same last year, also with Glencore as well as with the Bou-Azzer mine in Morocco.

REUTERS
JUNE 2020

TESLA PLANS TO USE GLENCORE COBALT IN NEW GIGAFACTORIES.

Glencore, which is the largest industrial supplier of cobalt in the world, could provide Tesla with up to 6,000 tons of cobalt a year under the long-term partnership.

NBC JULY 2020



Demand drivers – investors and financial institutions



ANALYSIS OF 3000 US MUTUAL AND EXCHANGE TRADED FUNDS



Morgan Stanley February 2021

66 Assets in sustainable investment products in Europe are forecast to reach €7.6tn over the next five years, outnumbering conventional funds, as investors' growing focus on risks including climate change and social inequality pushes these strategies into the mainstream.

According to research by PwC, in a best-case scenario, ESG funds will experience a more than threefold jump in assets by 2025, increasing their share of the European fund sector from 15 per cent to 57 per cent. **J

FINANCIAL TIMES OCTOBER 2020

COLLECTIVE COMMITMENT TO CLIMATE ACTION

38 banks from across all six continents have committed to align their loan portfolios with global climate goals.

With more than \$15 trillion in assets, these Banks are fast-tracking the commitment all UN Principles for Responsible Banking signatories have made to align their business strategy with the goals of the Paris Agreement.



SUPPLY CONSTRAINTS

Let's just look at copper



IN THE NEXT 15 YEARS WE WILL CONSUME MORE COPPER THAN WE DID IN THE LAST 100 YEARS COMBINED

WORLDWIDE COPPER
USAGE JUMPED 38%
OVER THE LAST DECADE,
FROM 17.8MT IN 2009 TO
24.5MT IN 2019 AND
COULD RISE TO OVER
80MT BY 2050

ON AVERAGE IT TAKES 20
YEARS TO BRING A COPPER
MINE INTO PRODUCTION.
WINU IS ON TRACK TO BE
FASTER AT ~5 YEARS – STILL
A LONG TIME

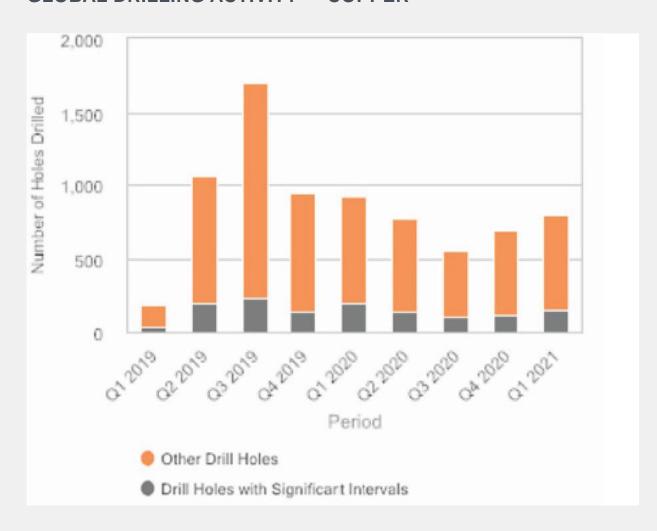
TESLA ALONE SOLD ~500,000 ELECTRIC VEHICLES IN 2020 – UP 36% ON 2019 500 MILLION ELECTRIC
VEHICLES ARE EXPECTED
TO BE ON THE ROAD BY
2040 REQUIRING 42.5 MT OF
COPPER – ROUGHLY TWICE
THE CURRENT VOLUME
PRODUCED

ELECTRIC VEHICLES
REQUIRE
~85KG OF COPPER – 5
TIMES MORE THAN
STANDARD PETROL
VEHICLES

Diminishing drilling, copper discoveries, reserves and inventories



GLOBAL DRILLING ACTIVITY — COPPER



Goldman Sachs recently reported that the copper market is facing the largest deficit in a decade this year, with a high risk of scarcity over the coming months.

How hard is it to extract copper?





THIS IS WHAT 4.1 MILLION TONNES OF COPPER LOOKS LIKE

Palabora is the largest open-pit mine in South Africa, established in the 1950s

Finding, defining and mining that much copper, requires a lot of drilling, earth moving and processing

Doing it efficiently is more critical today than ever before

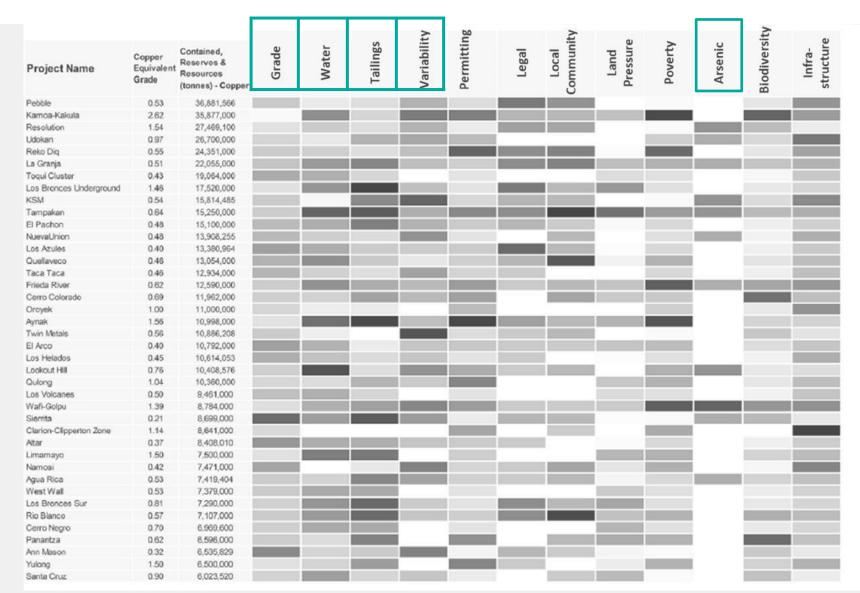


SO, LETS JUST GO AND FIND MORE COPPER... RIGHT?

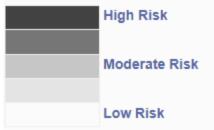
EVEN IF YOU DRILL MORE, THERE ARE MULTIPLE CHALLENGES

Stranded copper assets – multiple constraints









Re-thinking complex orebodies: Consequences for the future world supply of copper

R.K. Valenta *, D. Kemp 1 *, J.R. Owen 1, G.D. Corder *, E. Lebre 1

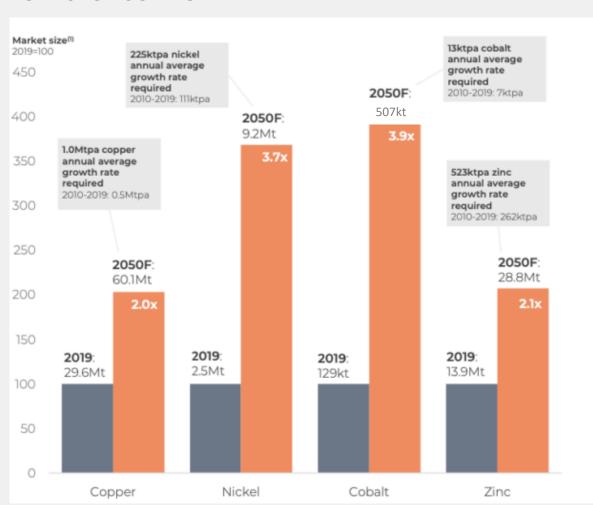
^{*} HARdyson Mining & Gology Rysonick Conte. Sustainable Minimals Institute. The University of Queenstand. St Latin Compus, QED: 4072, Australia.
* Contro for Social Responsibility in Mining, Sustainable Minimals Institute, The University of Queenstand, St Lacin Compus, QED: 4072, Australia.

Control for Social Republication, Sustainable Minerals Institute, The University of Quantities, St. Livin Comput. QCD, 4072, Aprilla

It's not just a copper story



FORECAST COMMODITY DEMAND



in key energy transition metals — aluminum, cobalt, copper, nickel, and lithium — over the next 15 years to meet the growing demands of decarbonization.

WOOD MACKENZIE

Glencore modelled future demand for battery metals out to 2050



HOW DOES IMDEX'S TECHNOLOGIES AND STRATEGY FULFIL THIS SUPPLY DEMAND GAP

Importance of mining-tech

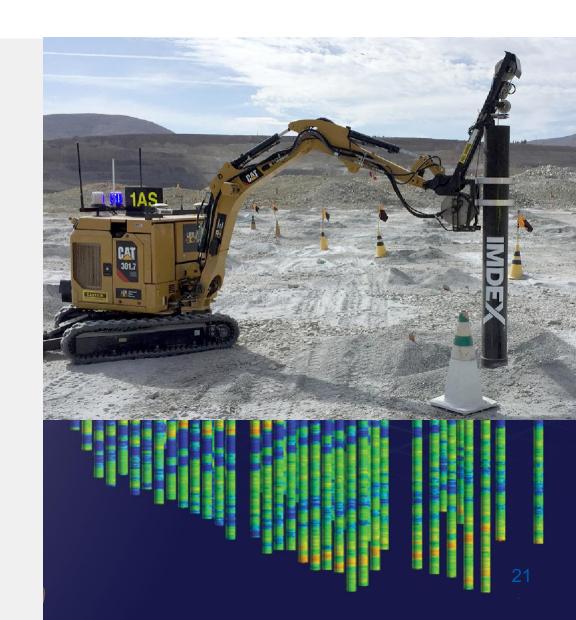


Rapid technological advances in AI, robotics and automation, analytics, and the Industrial Internet of Things are beginning to transform supply and demand dynamics in the energy and resources sector, and will raise productivity, increase energy efficiency and unlock value of \$900 billion to \$1.6 trillion by 2035.

MCKINSEY & COMPANY FEBRUARY 2017

Mining technologies that enable clients to find, define and mine with precision and at speed are becoming increasingly critical.

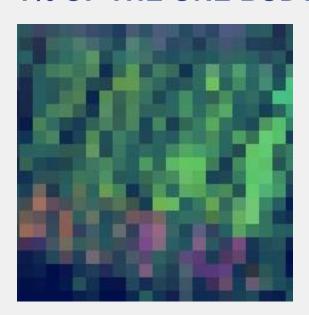
DAVE LAWIE
CHIEF GEOSCIENTIST, IMDEX



The value of moving decisions upstream from where they are today

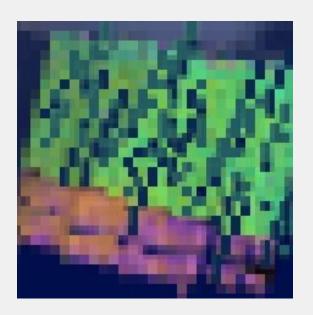


MANY \$BN MINING
INVESTMENT DECISIONS
ARE MADE HAVING
SAMPLED ONLY 1% OF
1% OF THE ORE BODY.

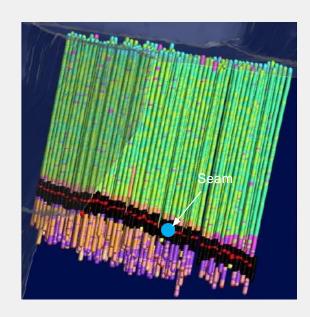


Rock knowledge is an understanding of location, texture, grade and mineralogy.

It answers the question where to drill next and how processing can be optimised.



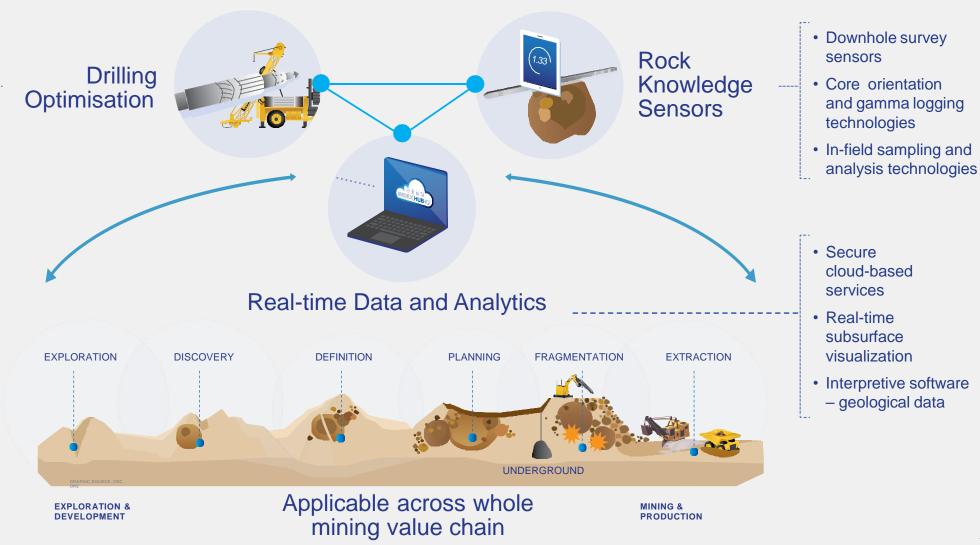
We enable the timely delivery of quality data, giving clarity on the nature of the rock to allow real-time decisions to be made, rather than having to wait weeks or months.



Enabling clients to find, define and mine— with precision and at speed



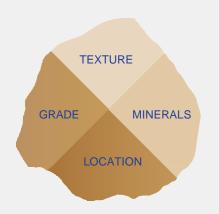
- Drilling productivity and rig alignment technologies
- Automated and remote drilling fluid testing technologies
- Data collection and advanced reporting software



Why rock knowledge is important



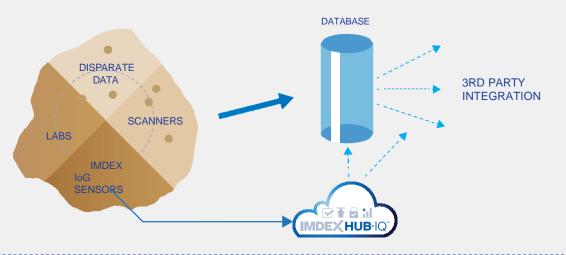
What is rock knowledge?



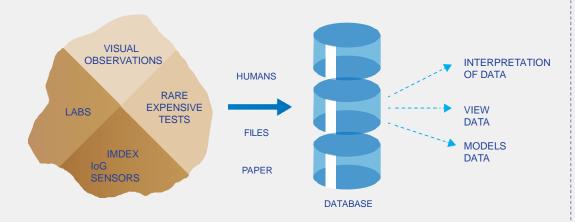
WE USE THESE PROPERTIES FOR:

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

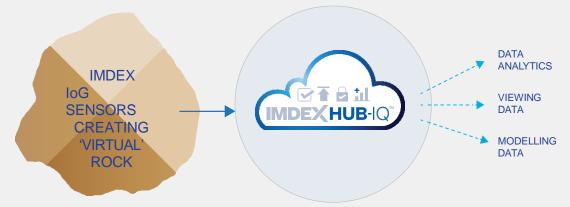
Current world view of rock knowledge



Traditional view of rock knowledge



Why IMDEX Is building rock knowledge



The value of IMDEXHUB-IQ™ in providing integrated rock knowledge



Timely information for critical decision making





QUALITY DATA

- Industry leading sensors
- QA/QC at point of data collection
- Digital workflows remove risk of human error
- Al and machine learning remove human subjectivity



REPRESENTIVITY

- Cost effective methods allowing data to be collected for every metre drilled
- Repeatable sensor-based data (IoG)



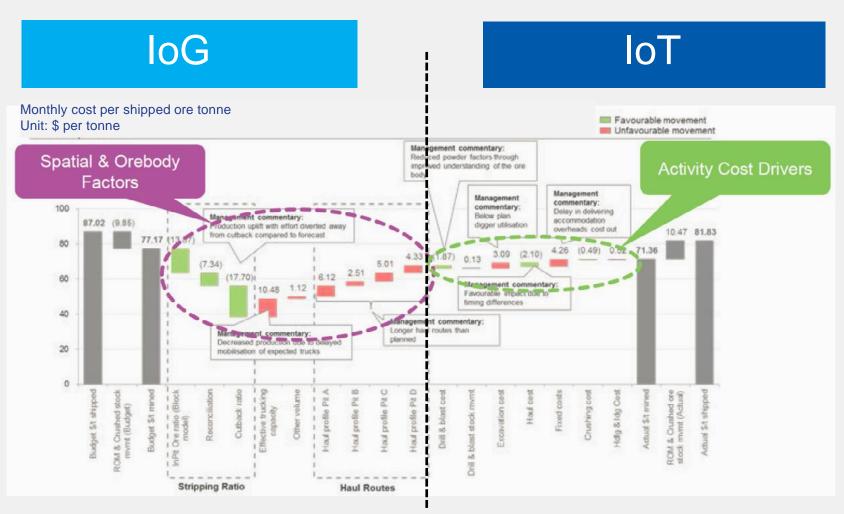
TIME SAVINGS

- Actionable information in real-time
- Driller operable instrumentation

 not reliant on third-party service providers
- More efficient digital workflows

The value of rock knowledge





We are putting geoscience into blasting via the Internet of Geosensing by measuring what is important."

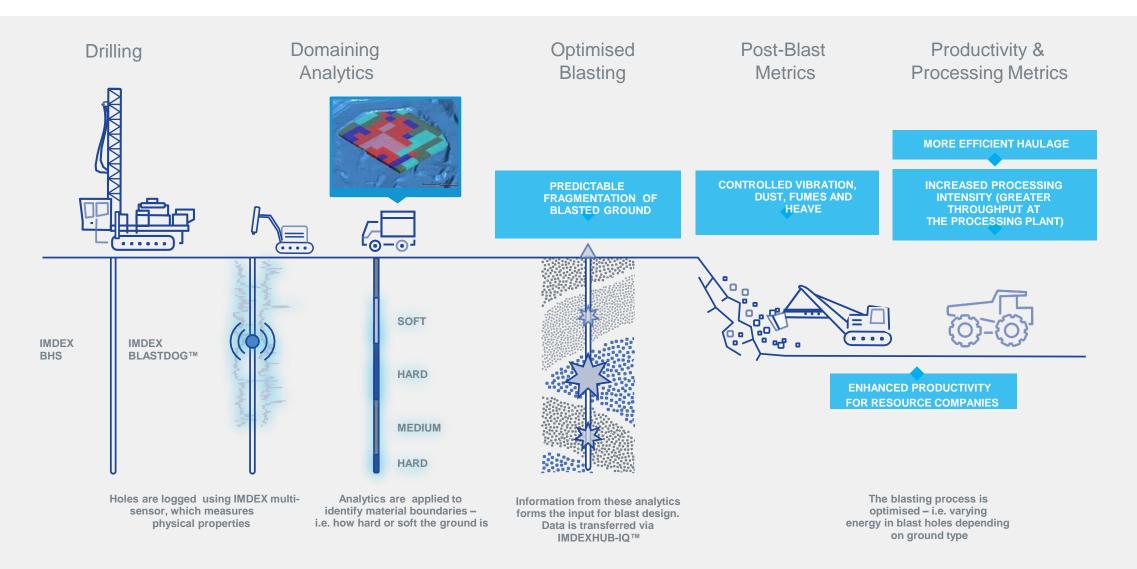
DAVE LAWIE
CHIEF GEOSCIENTIST, IMDEX

KPMG Leveraging data for improved productivity
David Rose, 11 November 2015

IoG the Internet of Geosensing

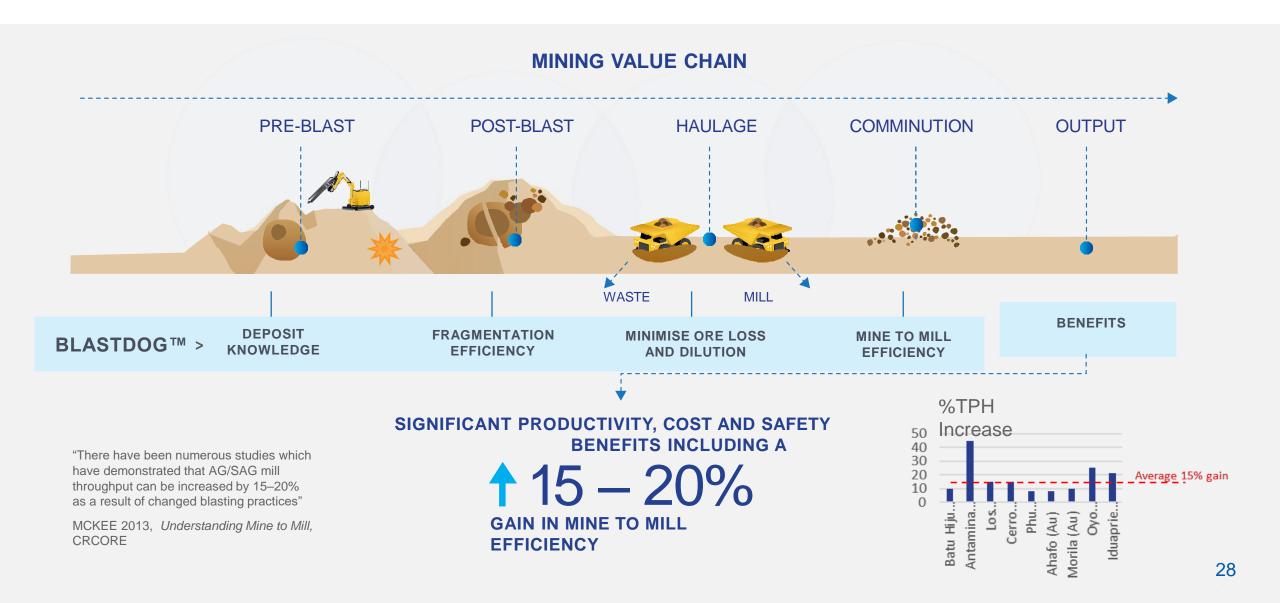
Mining Technologies - BLASTDOG™ Optimised blasting and material tracking





IMDEX BLASTDOG™ and the big levers of loG





Industry drivers are accelerating IMDEX's compelling growth strategy

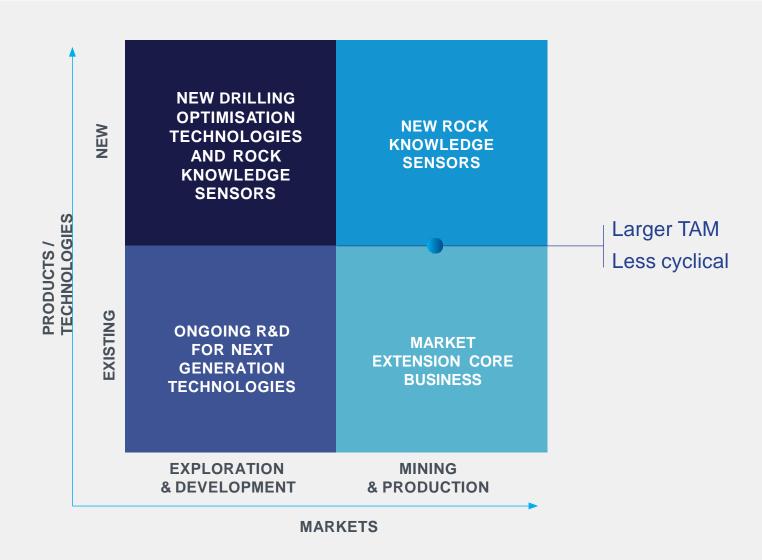


Growing core business by enhancing technical leadership and embedding value for clients

Expansion within the larger, less cyclical production stage of the mining value chain

Three pathways to growth





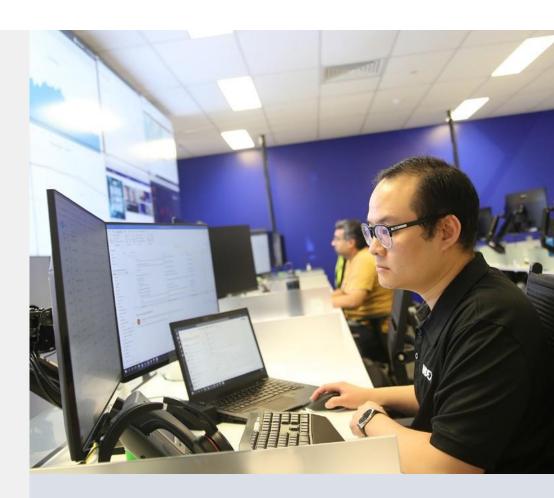


OUTLOOK

Outlook for FY21



- The outlook for mining-tech is stronger than it has ever been
- We remain watchful and ready to respond to the risks and opportunities presented by COVID-19
- We remained positioned to benefit from increasing demand for real-time orebody knowledge
- Clients are well funded and are focused on increasing and sustaining activity
- Positive start to 2H21 with a record December and January (traditional seasonal low). Instruments on rent now exceeding October 2020 highs
- Our company has a compelling growth strategy and is in a strong position to leverage its unique competitive position and strong industry fundamentals



IMDEX's Customer Care Network Operating Centre allows remote support anywhere in the world

Positioned to deliver attractive returns





STRONG CORE BUSINESS

- Outperforming market growth
- Strong financial platform
- Sustainable dividend policy
- Established global presence
- World-class R&D and geoscience capabilities
- Unique product offering
- Experienced leadership team



A GROWTH COMPANY

- Strong pipeline of new technologies and software
- Ability to pursue strategic acquisitions
- Expansion within the larger, less cyclical production stage of the mining value chain
- IMDEX technologies offer real sustainable value



- Resource companies are well funded with increasing budgets
- Reserves are being depleted at a faster rate than discoveries
- New discoveries are likely to be at depth resulting in larger drilling campaigns
- Resource companies are embracing innovation and new technologies enable remote working
- Strong multi-sector demand driving commodity prices
- Decarbonisation trend gaining momentum

Thank you

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