

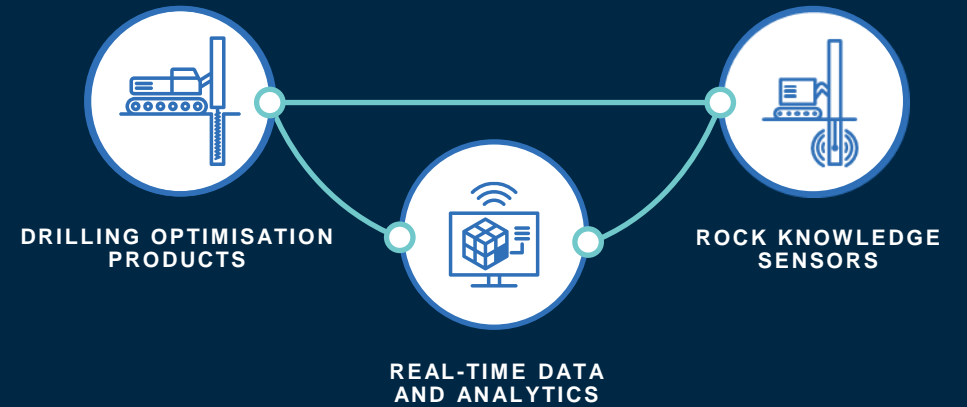


# The role of External Research as part of a Balanced Product Development Portfolio

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20<sup>th</sup> August 2024

# IMDEX Strategy



TIMELY  
INFORMATION  
FOR CRITICAL  
DECISION MAKING



## QUALITY DATA

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



## REPRESENTIVITY

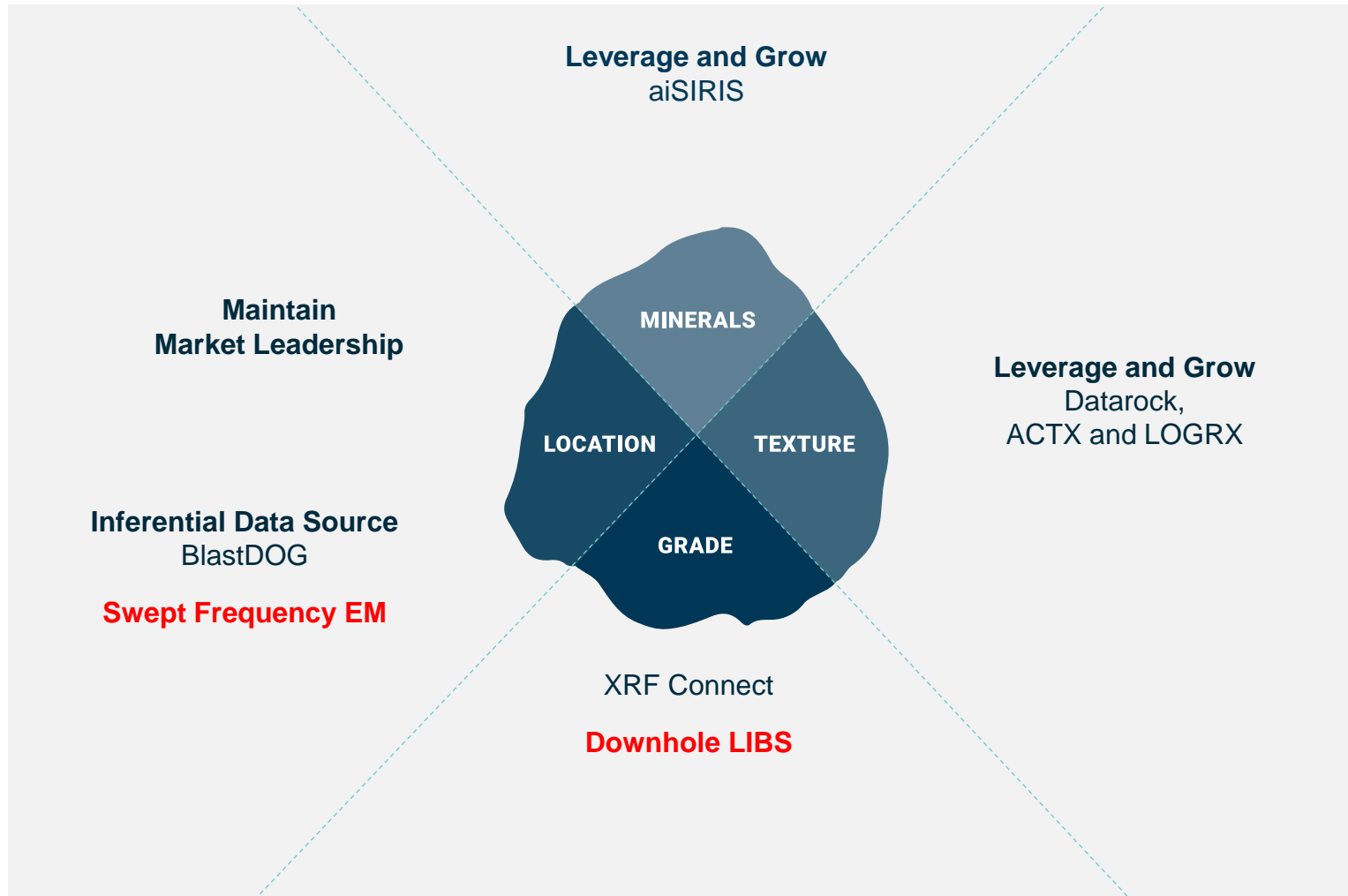
- Cost effective methods allowing data to be collected for every metre drilled
- Repeatable sensor-based data (IoG)



## TIME SAVINGS

- Actionable information in real-time
- Driller operable instrumentation
- Autonomous operations
- More efficient digital workflows

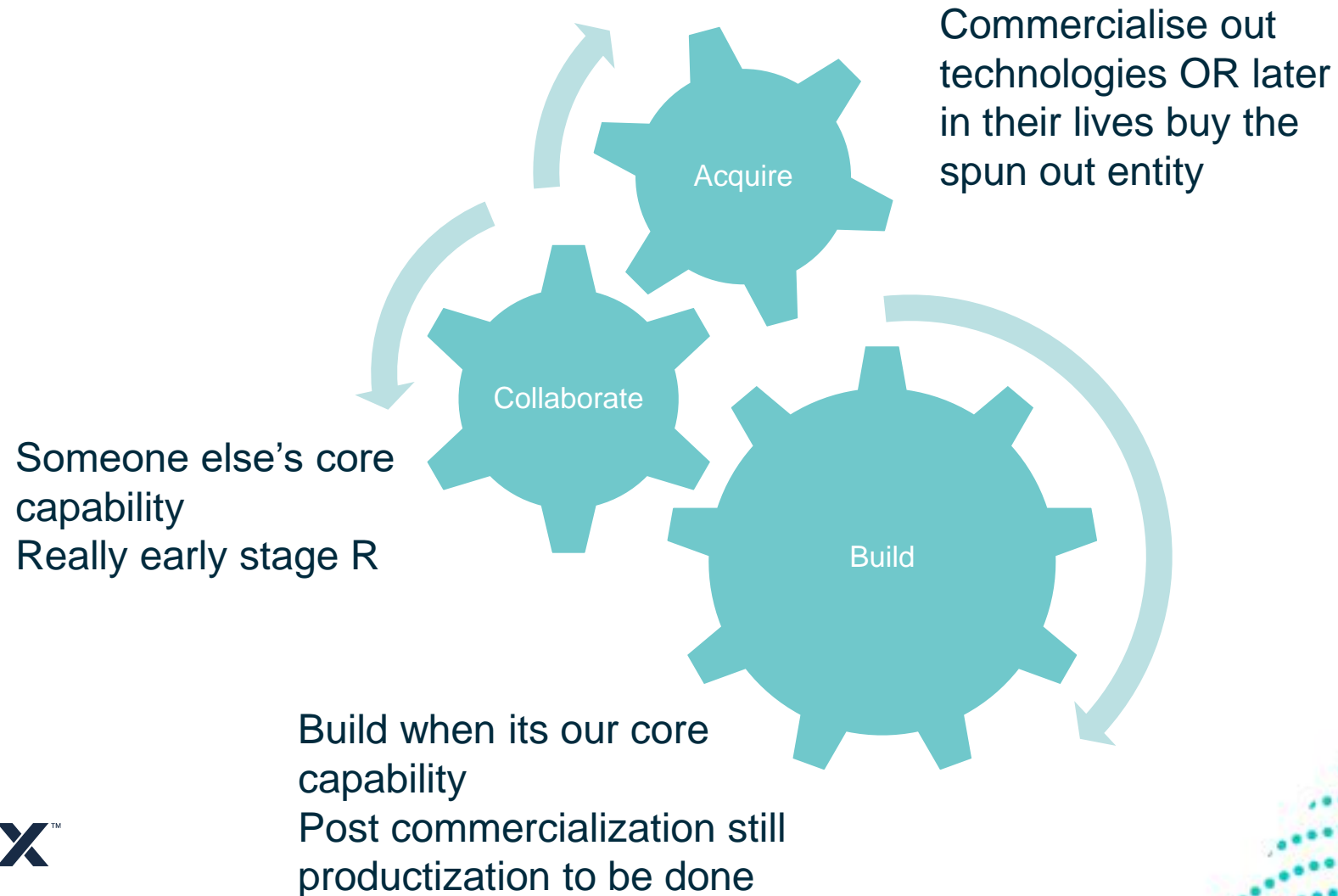
# How we think about Rock Knowledge



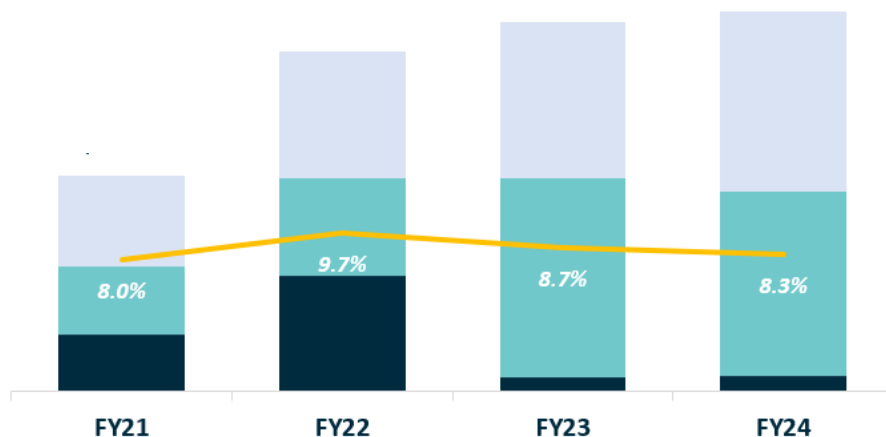
Rock Knowledge (and by extension Orebody Knowledge) is based on characterizing the rock – either via the component parts OR by using inference based on petrophysical properties

# Acquire Build Collaborate (ABC) Approach to Growth

External Research Plays in all



# Disciplined R&D Spend across Horizons



## GRAPH KEY

- Horizon 1 – Next generation core technologies impacting revenues in 1-2 years
- Horizon 2 – New core technologies impacting revenues in 2 – 3 years
- Horizon 3 – Transformative technologies impacting revenues in 3 – 5 years
- Expensed R&D and capitalised software development costs as a % of revenue

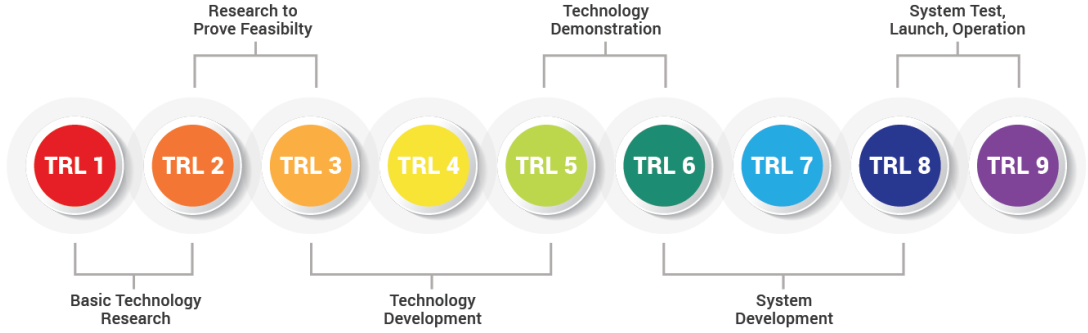
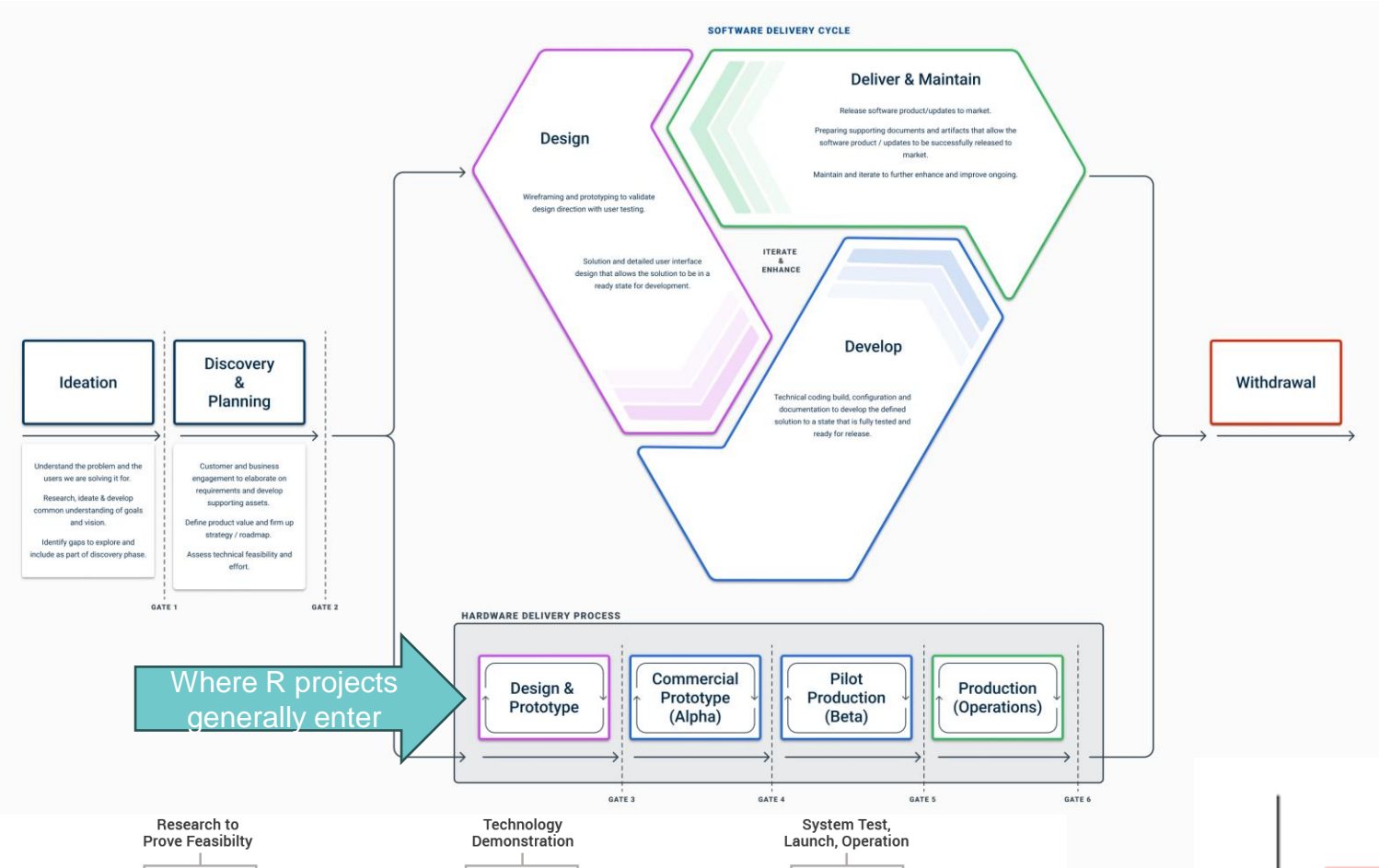
IMDEX is a growth business committed to R&D in all market conditions

In line with industry norms we aim for a 70:20:10 split across horizons

Investment in Horizon1 increased during FY22-FY24 reflecting the investment in the next generation of our core product portfolio

30% of our Horizon 3 spend is done in conjunction with third parties to supplement internal innovation

# Tailored Stage Gate Process to Product Development



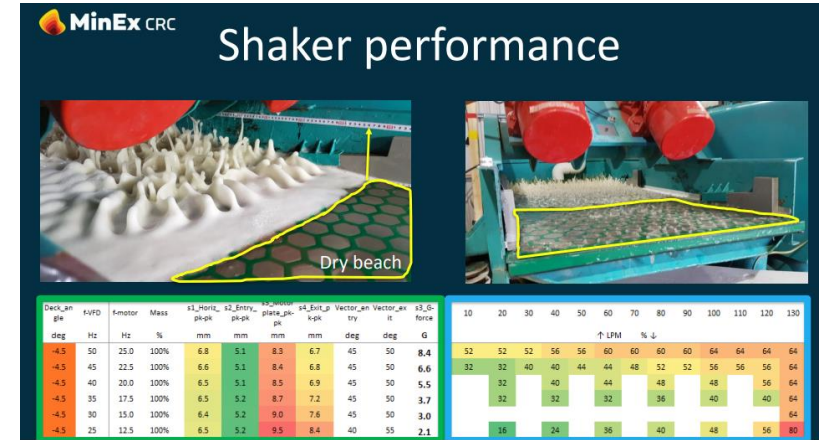


# IMDEX Funded Collaboration Projects

Engage in a range of behaviours from participation in large collaboratives to directly funded research projects with outcomes across all development horizons

- MinexCRC (and the DET CRC before it)  
DH LIBS and Swept EM Projects  
Fluids Separation and Sampling Project  
Corevibe testing program
- CRC Ore 2
- Value of Information Project (MDRU)
- BLASTDOG funding via METS IGNITED

Horizon 1



Horizon 3

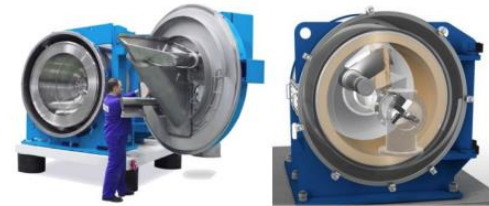


Figure 3: Industrial centrifuges that show the scraper pivot point is not positioned centrally above the rotation axis. Left: From Honeybee Robotics slides. Right: from Andritz Separation product video.

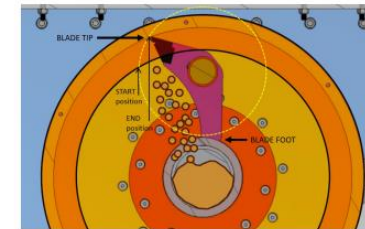


Figure 4: Original scraper. Pivot arm is positioned centrally over the rotation axis. Horizontal position of blade contact with sample changes relative to the sample port.



# Roads to a Commercial Outcome

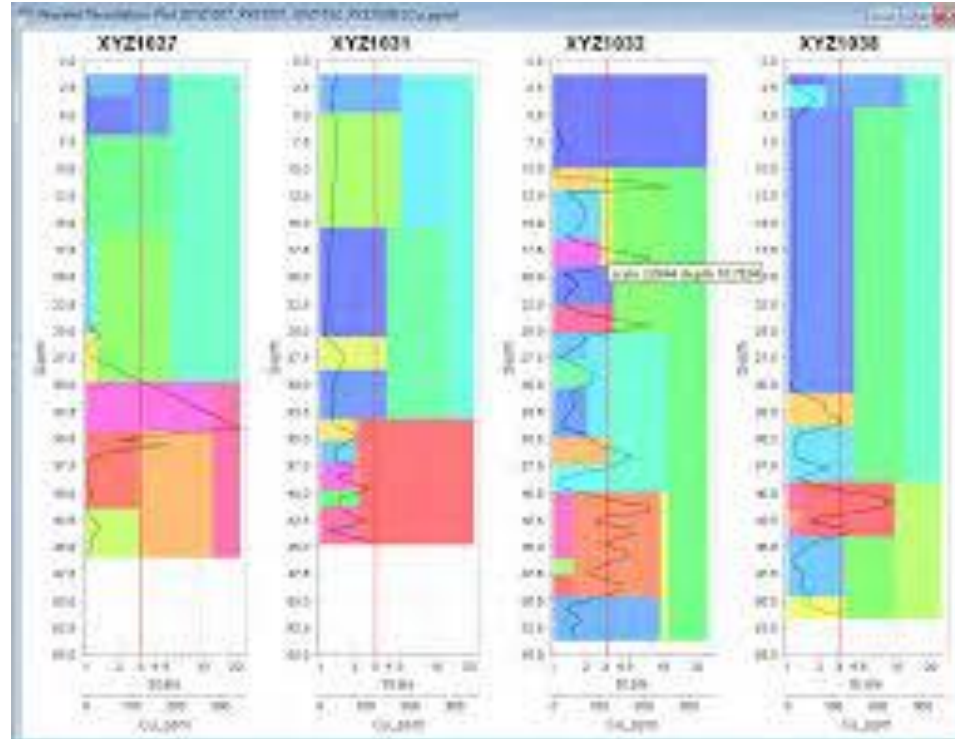
A working prototype is only the beginning, and you can't predict the end at the start





# Commercialisation Journeys

A working prototype is only the beginning  
– what's a product's natural home?



# Life of Mine Geophysics

Underutilization of down-hole geophysics across the mining life cycle and how the Swept EM tool may fit in our portfolio

Goal:

Routine collection and use of multiparameter GP data

Rich high-resolution data-layer

Maximizes the potential benefits of AI/ML +/- combination with other datasets

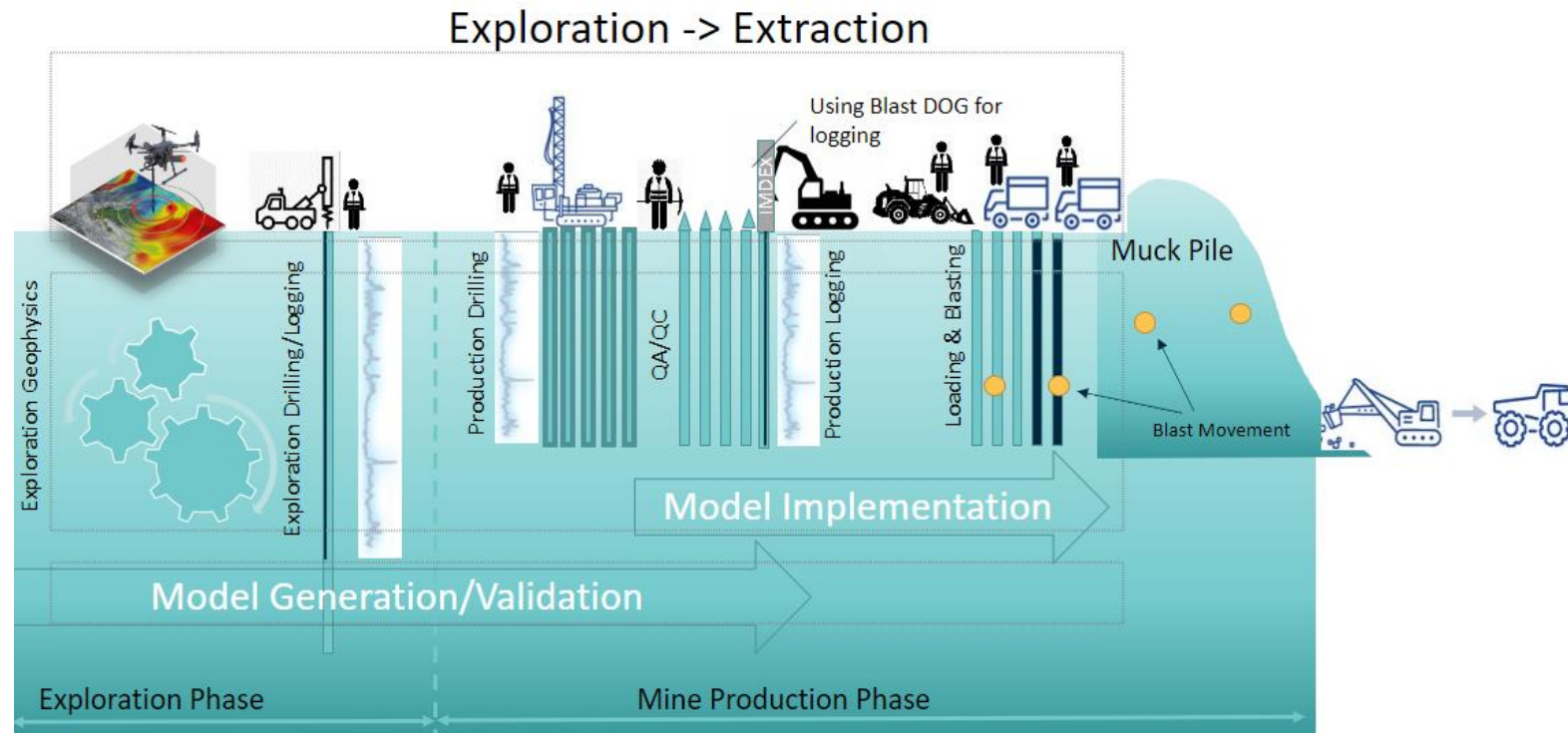
Data available soon after drilling

Challenges:

Isolated usage

Single techniques for single commodities or problems

Typically requires logging contractor – expensive and difficult to mobilize in remote areas







# Thank you.

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