IMDEX & the MinexCRC
What is it, Where is it, Now?

Who is Imdex?
What is my real motivation for wanting to fix geoscience?

Factors & Changing Environment

• Deeper average hole depth
• Higher rig safety standards
• Greater environmental and cultural restrictions
• Generally higher QA/QC standards (although not as high as they could be!)
• On a broad scale, only incremental technical innovation improvements in drilling productivity
Analysing the Drilling Process

The IMDEX View....
Be Safe and Environmentally Responsible

Don’t Waste Time

Drill As Fast As The Ground Will Allow

Do a Top-Quality Job

Have the Data to Back You Up and Add Value
Minerals Industry Drivers

Number of discoveries by region
Mineral discoveries in the World: 1900-2016

Dataset in motion
Potential annual efficiency gains from artificial intelligence*, worldwide, by industry

Gains from AI, $bn
700
600
500
400
300
200
100
0

Gains from AI as a share of total from data analytics, %

Source: McKinsey

*Estimate based on 18 existing techniques

The Economist
Rock Knowledge

What is rock knowledge?

Current world view of rock knowledge

Traditional view of rock knowledge

Why IMDEX wants to build rock knowledge

Internet of Geosensing now.
The road to Real Time 3D modelling

PROJECT 6: AUTOMATED 3D MODELLING
Geologists or Robots?

Source: GE Report

Thank you for your time

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