

THE SUSTAINABILITY & AI CHALLENGE



Why *Business Analysis*
is more integral than
you might think.



Is AI
Sustainable?



Engineer

Business Analyst

Analyst

Talker

Creative

Seller

Dreamer

12 years

5 countries

3 sectors

ABOUT ME

CONTEXT



Target to halve emissions by 2030



Role of public and private sectors



Changes to business operations



Environmental risk and opportunity of AI

DRIVERS

Compute

Models

People

Data

Ecosystem





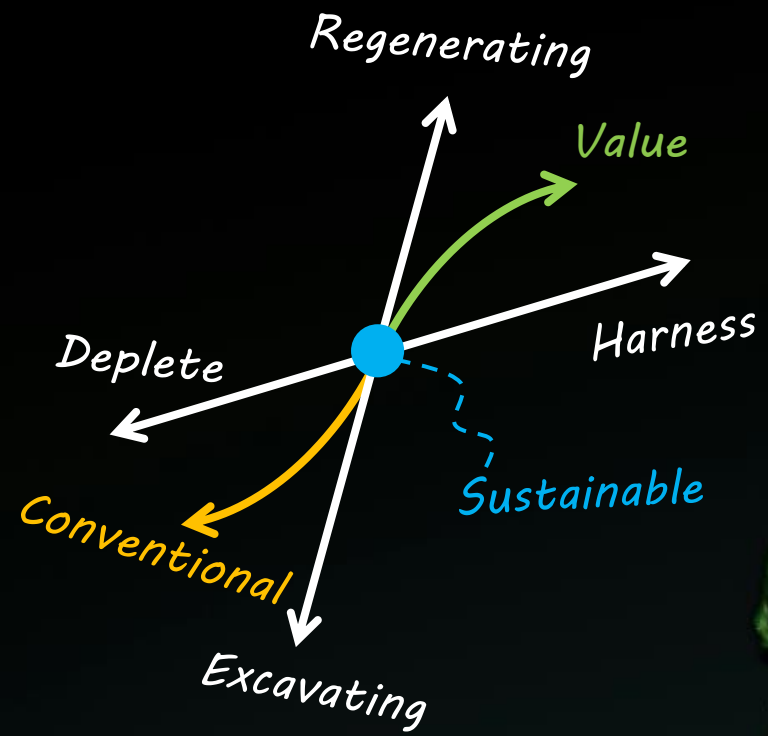
THE AI CONUNDRUM

**THE
CASE
FOR
CHANGE**



**WHERE
BUSINESS
ANALYSIS FITS IN**

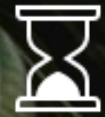




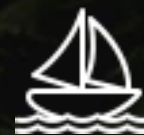
Approach



Parameters



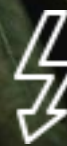
Elapsed Time



FLOPS



Emissions



Electricity

*As a... Sustainable
Developer*

*I want to... Identify models that
are inefficient or
haven't achieved the
required accuracy
and abort the training*

*So that... I reduce the CO₂e of
my trained model*

Attributes are...

Criteria to end training early

*e.g. accuracy rating,
carbon budget, etc.*

Requirements

Requirements

As a...

*Sustainable
Analyst*

I want to...

*Capture metrics in an
offline data file*

*So that... I can perform offline
analysis of
captured data*

Attributes are...

Metrics that need capturing

e.g. EPOCHS, K-Fold, etc.



USE CASES

- Predictive Analytics
- Hardware optimisation

AI FOR GOOD

Water

Construction

Retail



Social

Transport

Business

TAKEAWAYS



Do differently.