

Benchmarking Value in the Age of Al

Dr Chris Yates Vision Ventures



Introduction





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Vision Ventures is a M&A advisory firm specializing in corporate transactions and strategic consultancy in the vision tech market.





AI has Become a Central Paradigm of Vision Tech









AI has Lowered the Barrier to Entry in Many Markets



Al deployments have been accelerated by easily available tool chains, processor platforms, data sets, networks, cloud compute

This has lowered the barrier for

enter the market of vision tech

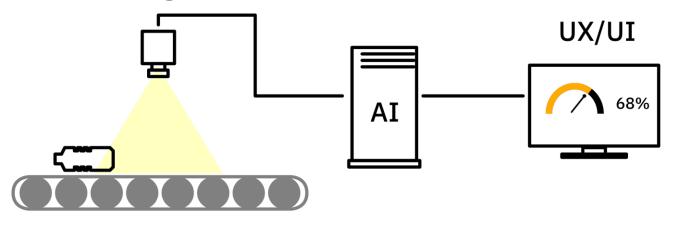
many startup companies to

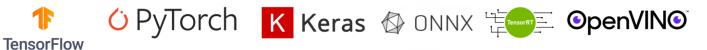
Example: Waste & Recycling Business





Images







But how valuable is the AI component?



The cycle of innovation, investment, growth, acquisition is an important mechanism in a free market economy A problem for investors and strategic acquirers can be to understand how to value the 'Al' component of a business AI technology is rapidly developing and can be very complex to understand for non-experts; or appear all similar

'...leveraging a unique deep learning methodology...'

'...partnership with NVIDIA to assure using the best AI techniques...'

...Al-powered visual quality inspection goes beyond the capabilities of machine vision alone... '...enhances the learning capabilities of optimization algorithms, particularly neural networks, trained according to stochastic gradient-descent rules...'



Breaking down the AI Impact

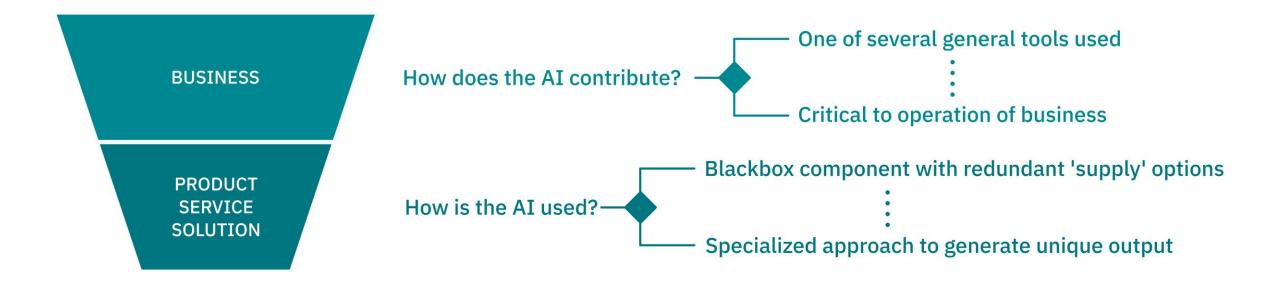






Breaking down the AI Impact

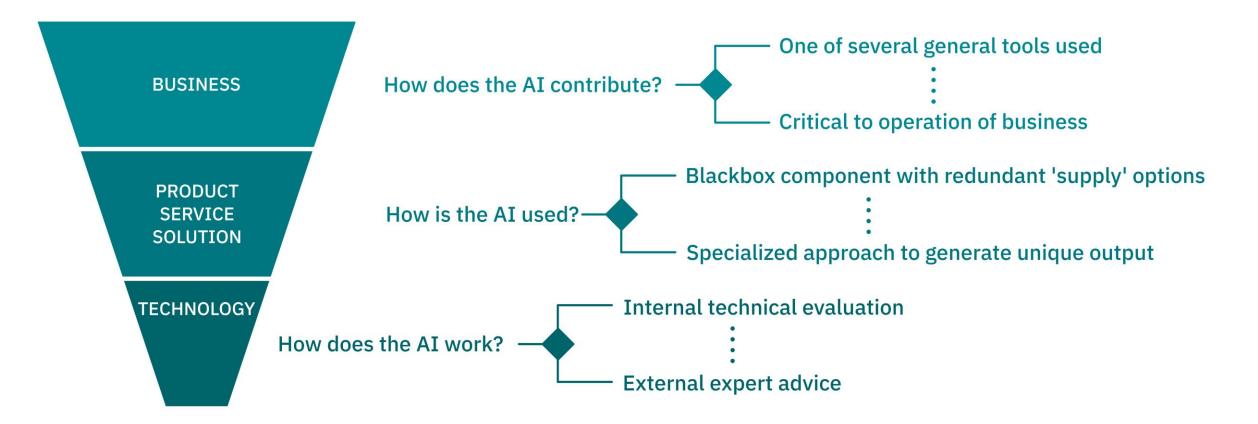






Breaking down the AI Impact







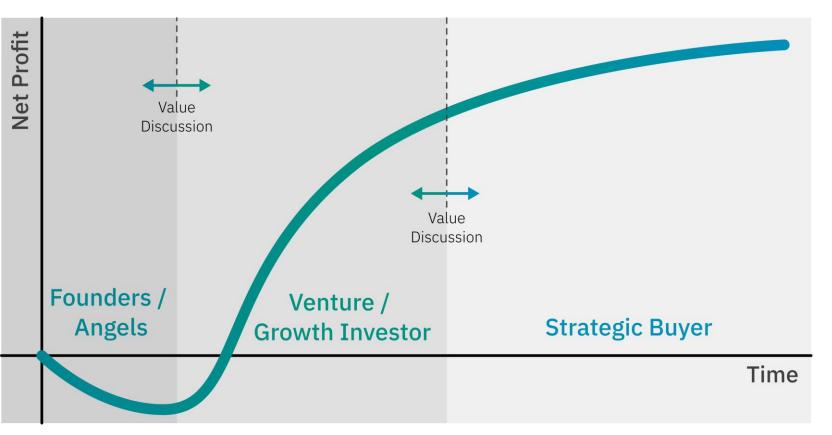
Discussions on Value are Important Throughout Growth



Three major stages in a company's growth create discussions on value

Each major group has different key concerns

Accurately assessing value at each stage requires understanding of different viewpoints







Three key ways for founders to promote the value of their AI solution:

Benchmarking

Meaningful benchmarking is valuable, e.g. direct tests of competitive solutions against the same problem

Performance metrics are best in context of customer KPIs – e.g. parcels per hour

Competitive details are often lacking in presentations

References

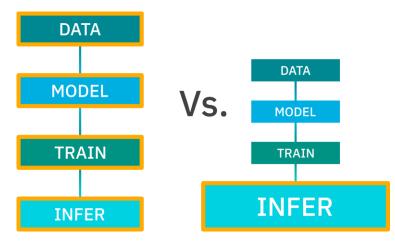
General expectation is that the technology works

Real-world deployment and maintenance 'stories' are a powerful approach to explaining the solution, even if only proof-of-concept

Communication

Explain relative importance of all components of AI to business model

Avoid a focus on just one aspect (e.g. inference)

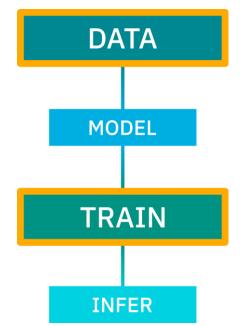






For investment diligence one of the most important aspects is the ability to scale – is this helped or hindered by the AI approach in the business model?





Data

Time/training to assemble required data

Annotation and metadata

Data security (e.g. do I need to be on-site?)

Training

How often is update required?

How to add additional parts/classes?

Size of model – training time/cost?

*Several companies are addressing these issues by enabling the customer to handle data and training through ease-of-use approaches



The Difference in Appetite for Risk



Founders, investors, and acquirers have different levels of tolerance to risk

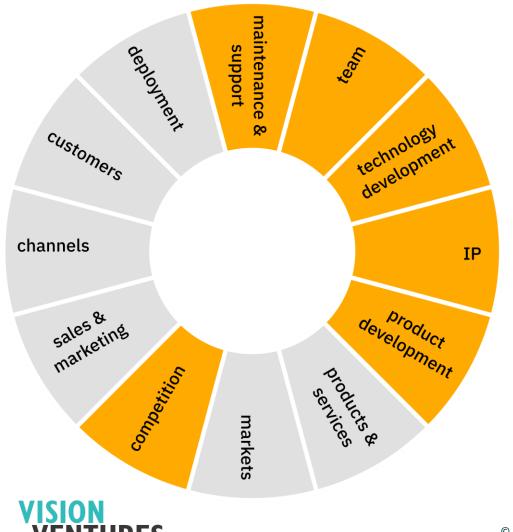
Valuations are reduced by items which are perceived as risky

We often assign higher risk to things we do not understand or are unfamiliar with Reducing the perception of risk benefits both sellers and buyers during the valuation process



Risk Reduction by Acquirers





Formal due diligence process is the primary approach to risk reduction – areas for special focus if AI is new a new focus area

Quantify where critical IP is located within company - individuals, code, patents etc.

Understanding how the AI development will operate after integration with existing processes

Acquired team culture and expertise and ability to educate internally

Requirements on maintenance and support in the field

Company Led Risk Reduction Before and During Acquisition



Synergy

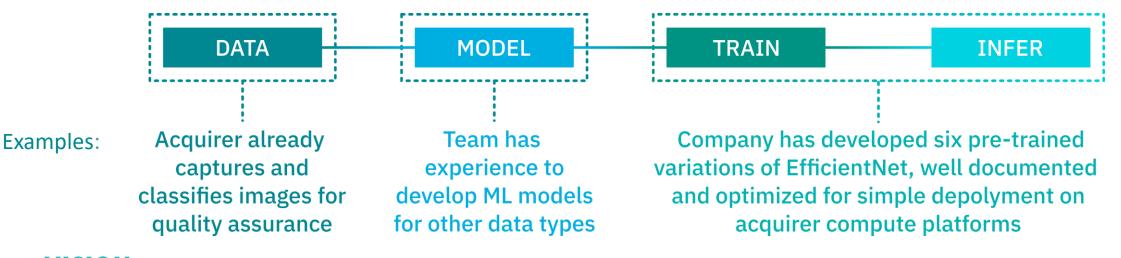
Forward synergies with the acquirer business spread the overall exposure to risk and so can increase value

'Packaged' AI

'Package & Present' Al components for simple integration – 'How would X easily fit into the acquirer business?'

Layered Information

Decision makers are unlikely to have time to understand all technical details – different detail levels can help structure discussions





Summary: Keys to Benchmarking AI Value



Understand each Stakeholder View

motivation and concerns

Ensure clear Communication

of AI in a business context

Perform expert Structured Analysis

to assess AI impact and risk







Thank You

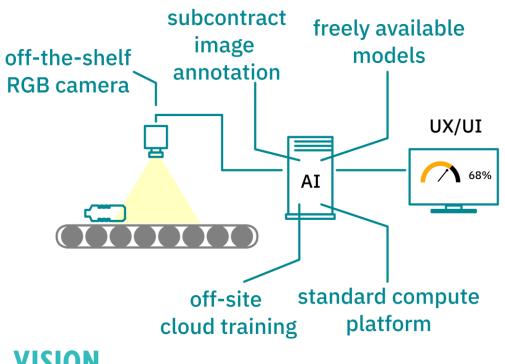
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Company #1 Strategy: speed to market and capturing market share





Company #1 Strategy: speed to market and capturing market share

Company #2 Strategy: technology development to create dedicated sector expertise

