

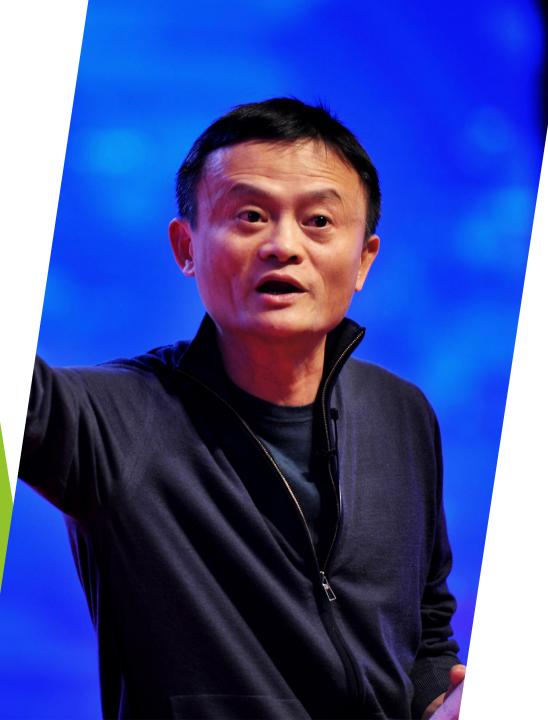


Replacing the hype with a winning approach

Dr David Naylor

March 2019



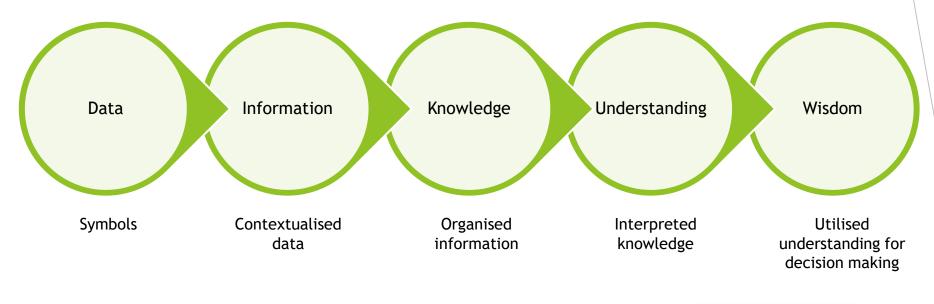


"We cannot teach our kids to compete with the machines who are smarter we have to teach our kids something unique. In this way, 30 years later, kids will have a chance."

> Jack Ma, Founder Alibaba



Augmenting our operations with Al





Data Scientists and Data Engineers Modelling relationships



and

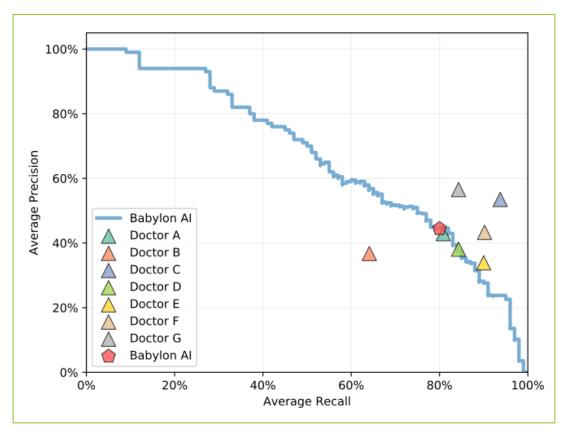


"Operational AI" **Making predictions** recommendations

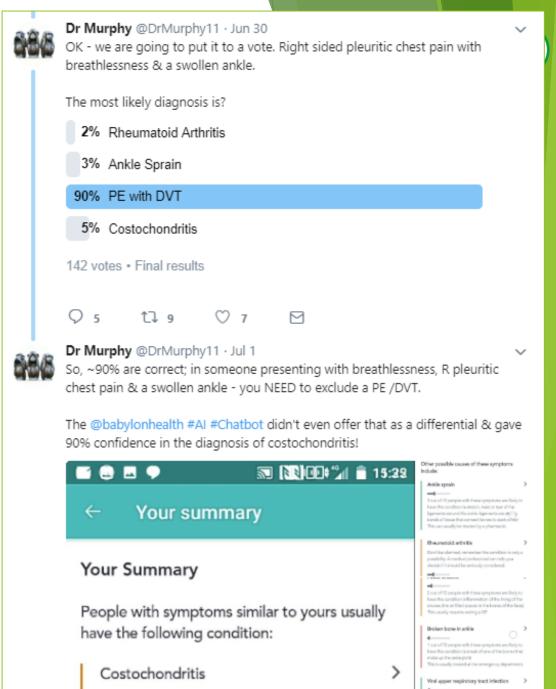


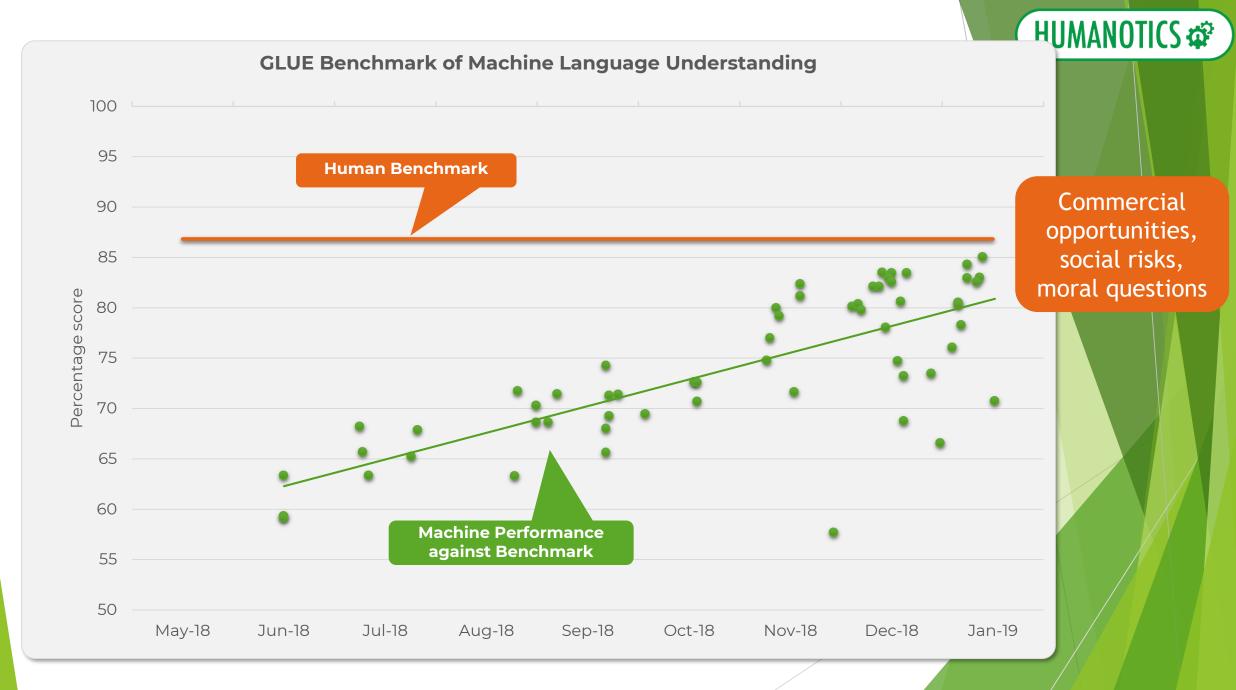
Operational **Experts** Making decisions

Good theory doesn't always lead to great practice

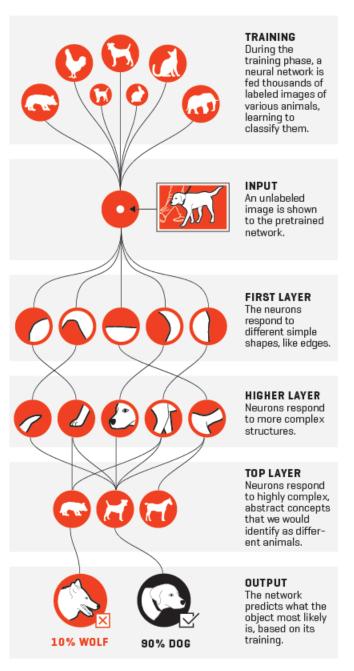


Source: A comparative study of artificial intelligence and human doctors for the purpose of triage and diagnosis, Salman Razzaki et al, https://arxiv.org/pdf/1806.10698.pdf





HOW NEURAL NETWORKS RECOGNIZE A DOG IN A PHOTO



HUMANOTICS ♣

So what is a Neural Network, Machine Learning and Deep Learning?

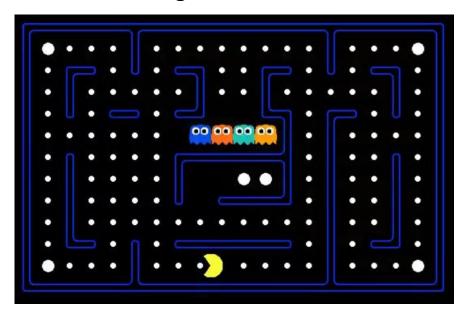
Source: Fortune



The challenge of 'Operational AI'

"Goal Directed Adaptive Behaviour"

Learning PacMan in a lab



Real World, unsupervised





Al in contact centres

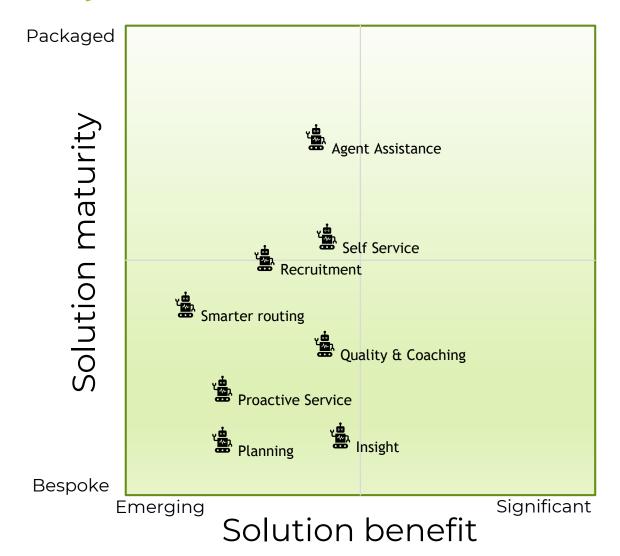


- Smart routing
- Agent assistance
- Self Service
- · Proactive Service

- · Quality & Coaching
- Recruitment
- Planning
- Insight

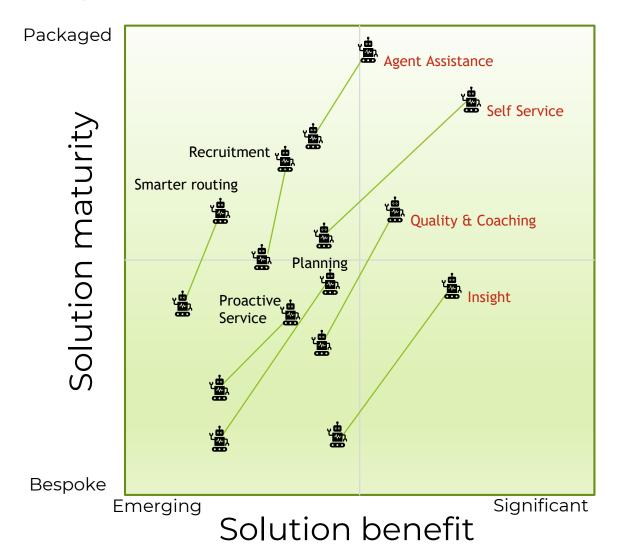


Al Maturity-Benefit matrix, 2019





Al Maturity-Benefit matrix, 2022





Outbound sales tasks and customer service

Google Duplex



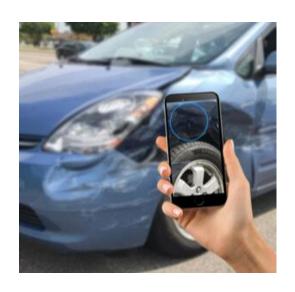
https://ai.googleblog.com/2018/05/duplex-ai-system-for-natural-conversation.html



Al powered agent assistance applications



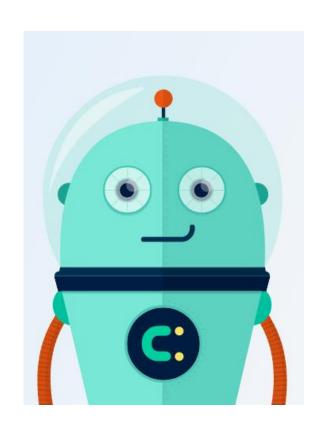




 Accelerating damage triage and claims processing



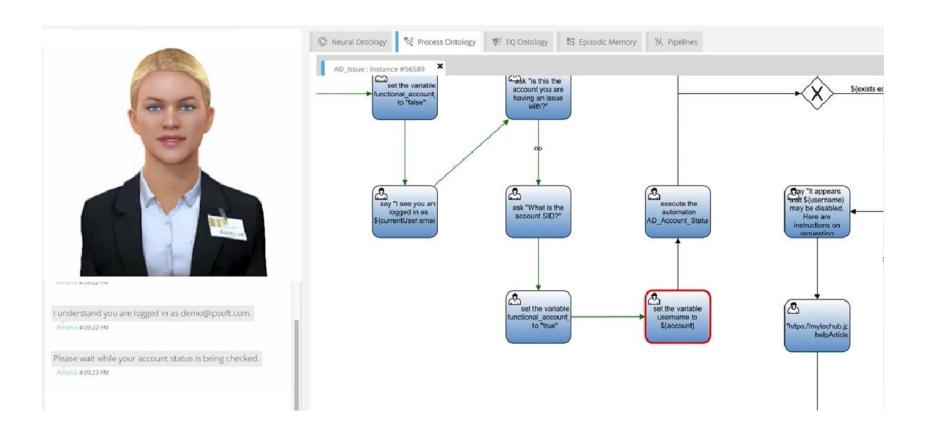




- Encourages the team conversations that the 'day to day' squeezes out
- Behavioural science based AI bitsized 'nudging' to drive action
- Spotting early warning signs of employee dissatisfaction



Continually learning IT helpdesk assistant



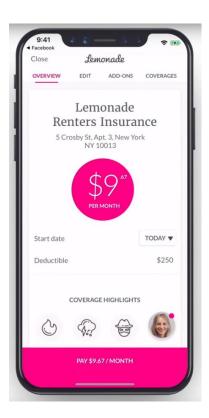
- Resolving 80% of level 1 helpdesk requests
- Watching and learning from humans to 'redesign' itself

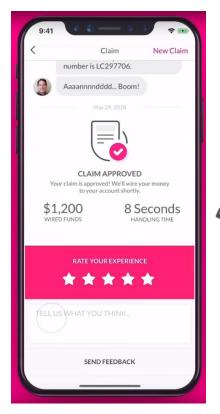


Transforming end to end journeys

90 SecondsTo get insured







3 Minutes To get paid ノ





Golden rules for Artificial Intelligence success

- Rule 1 It's a journey for the whole organisation not a race
- Rule 2 Fully understand the business questions first
- Rule 3 The right data is more important than the method
- Rule 4 Be agile, fail fast and deliver success incrementally
- Rule 5 Good design must still involve your people and customers
- Rule 6 Think augmentation not just replacement



Thank you!



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