

September 7th 2016

Data Driven, Digital Disruption

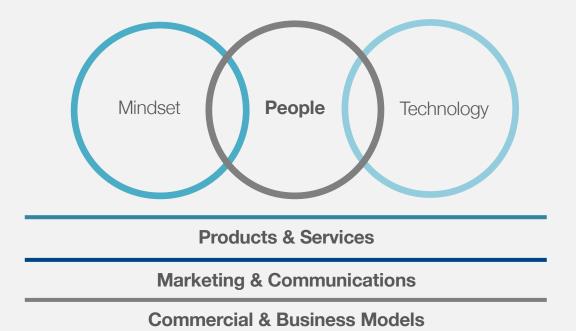


What is digital transformation ...

Rapid, customer-led change

Mass adoption of technology has altered **people's behaviours and experiences**.

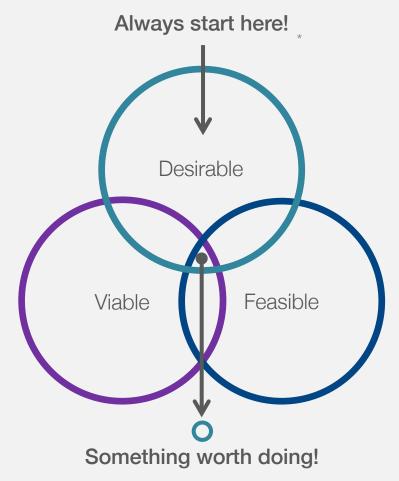
The flow-on effect of **changing customer expectations** requires businesses to adapt ...





Customer experience

- Exploring what a customer experiences from a product or a service
- Customer experience may differ from customer expectation
- Mapping this and understanding this is core to success ...
 - Apple use it to create great products
 - Google use it to create great services
 - Amazon use it to drive purchasing
 - Facebook use it to drive engagement



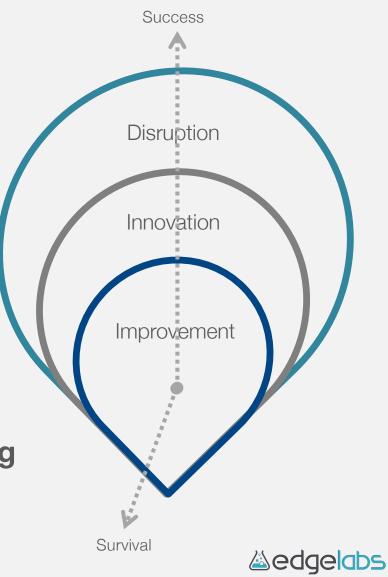




Innovation

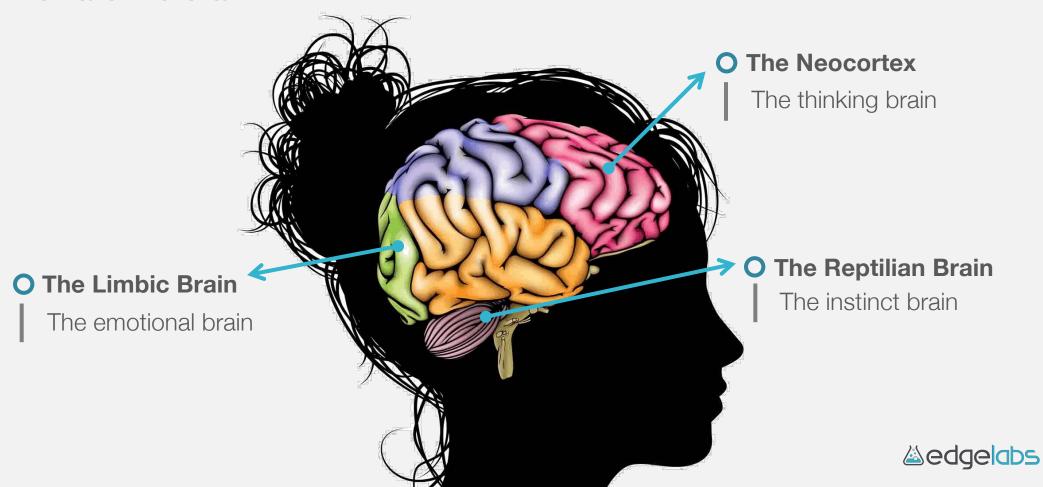
- Identifying and deciphering strategic problems that are worth solving to grow the profitability of the company and deliver for customers, clients and employees
- O Different types of organisations have different types of employees and require different types of thinking

Not just about ideas ... it's about understanding, designing, building, testing and delivering new, commercially viable, desirable products and services



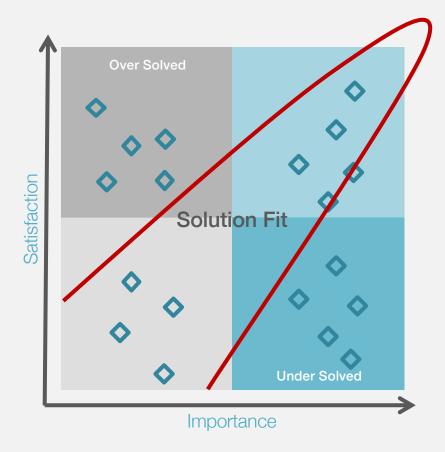
Customers do not know what they want

Beware the brain ...



Problems Worth Wolving

Innovation occurs when you identify a problem that is worth solving



- O You ensure that a problem is worth solving by understanding how important it is to your customers
- You are looking for problems that are not solved sufficiently by existing solutions
- Your goal is to translate this Problem Worth Solving into a Solution Worth Doing by understanding the customer and their objectives
- Your focus is on the Job To Be Done*
- O This ensures that the customer's expectations are met (or surpassed), and ensures business and technology investment is occurring to support the right activities



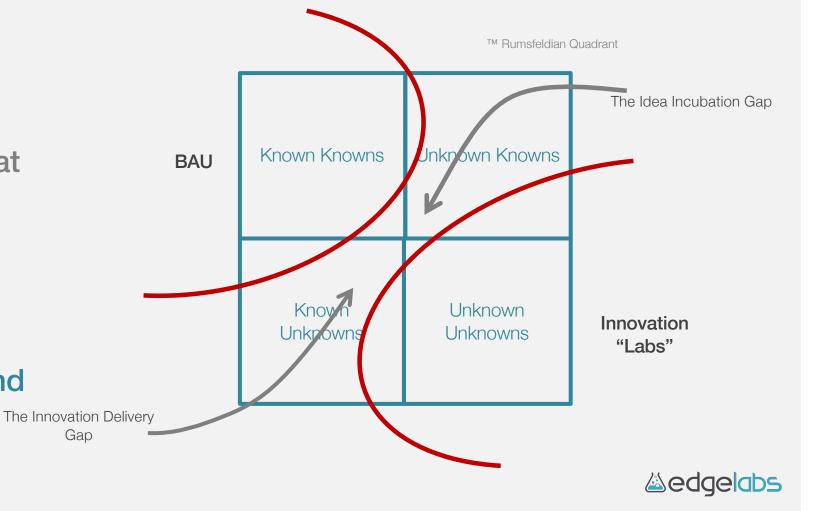
^{*} Clay Christiansen

The Rumsfeldian Dilemma ...

Gap

Data can help understand what you know, and what you don't know...

Data can also identify opportunities to find problems worth solving



Information technology grows exponentially, doubling every year.

What used to fit in a building, now fits in your pocket. What fits in your pocket today will fit inside a blood cell in 25 years time ...

- Ray Kurzweil, Author, Scientist & Futurist, 2009



Rate of change of technology

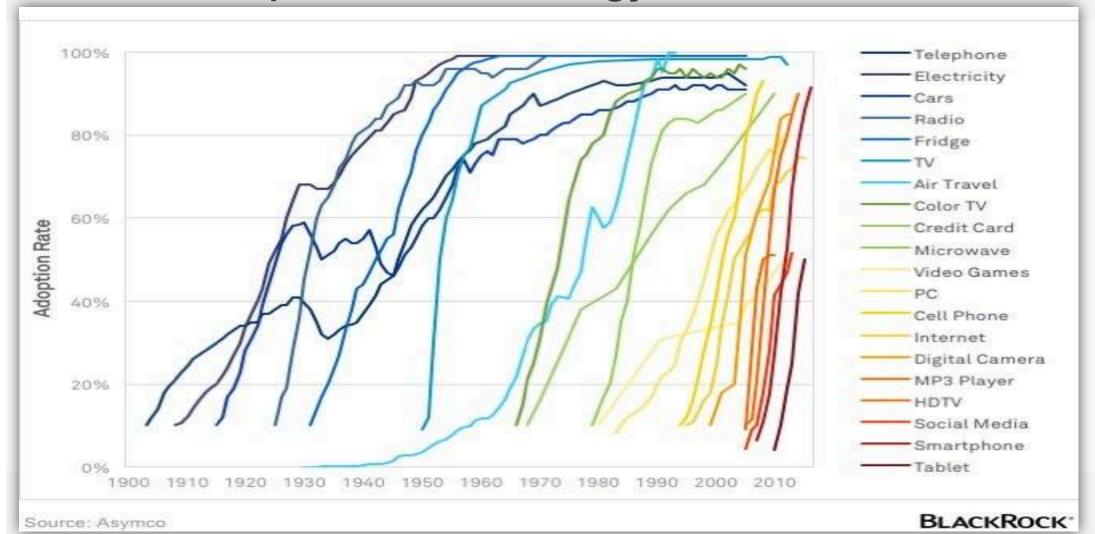


1965: IBM 350 Storage Unit with 5MB of storage

2016: MicroSD Card with 200GB of storage



Rate of adoption of technology



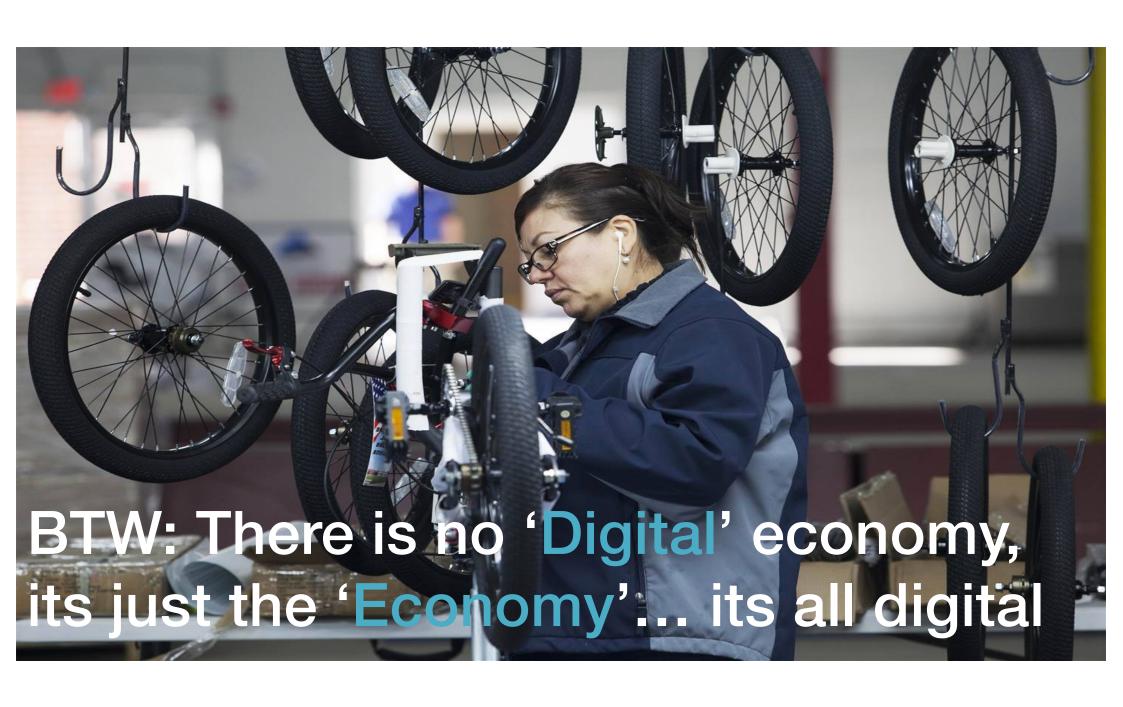
Digital disruption has the potential to threaten 40 per cent of jobs in the next 10-15 years.

- Australian Productivity Commission, 15 June 2016









API's and integrations are the new normal









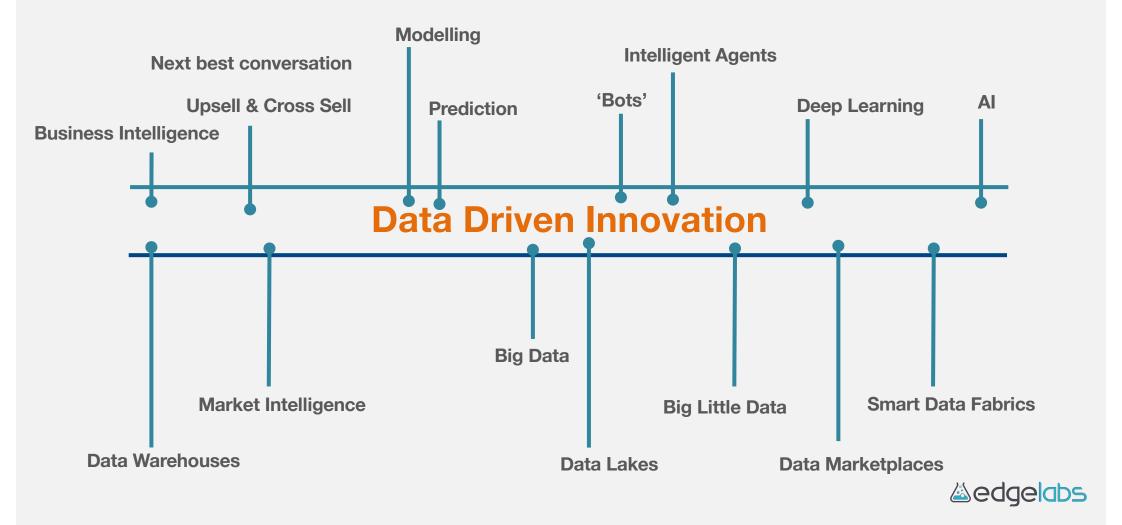








There is a spectrum of data driven innovation

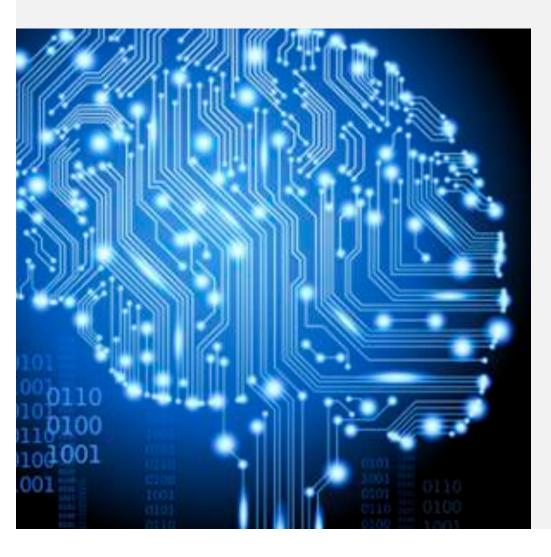


New developments in machine intelligence will make us far, far smarter for everyone on the planet, everyone gets smarter because of this technology, and the empowerment of people is the secret to technological progress ...

- Eric Schmidt, Executive Chairman, Google



Artificial Intelligence (AI) ...



All of this data enables models to be built that support:

- Machine Learning
- Artificial Intelligence

This enables 'bots' or 'agents' to be created that can answer questions, or respond to requests without any human intervention.

In financials services this is known as 'RoboAdvice'



Automation and Artificial Intelligence

- Jobs already gone ...
 - Stock exchange floor traders
 - Back room traders
- Next in line ...
 - Private bankers
 - Accountants, actuaries & auditors
 - Personal wealth managers
 - ... and lawyers

All replaced by ALGORITHMS and smart applications



The Internet of Things (IOT) ...

Stuff that is connected to the internet that wasn't before

- Environmental Monitoring
- Infrastructure Management
- Energy Management
- Medical Systems
- Healthcare Systems
- Security Systems
- Building Automation
- Home Automation
- Transport
- Manufacturing





The Internet of Things (IOT) ...



- Smart Cities
- Smart Cars and Transport
- Wearables
- Augmentation

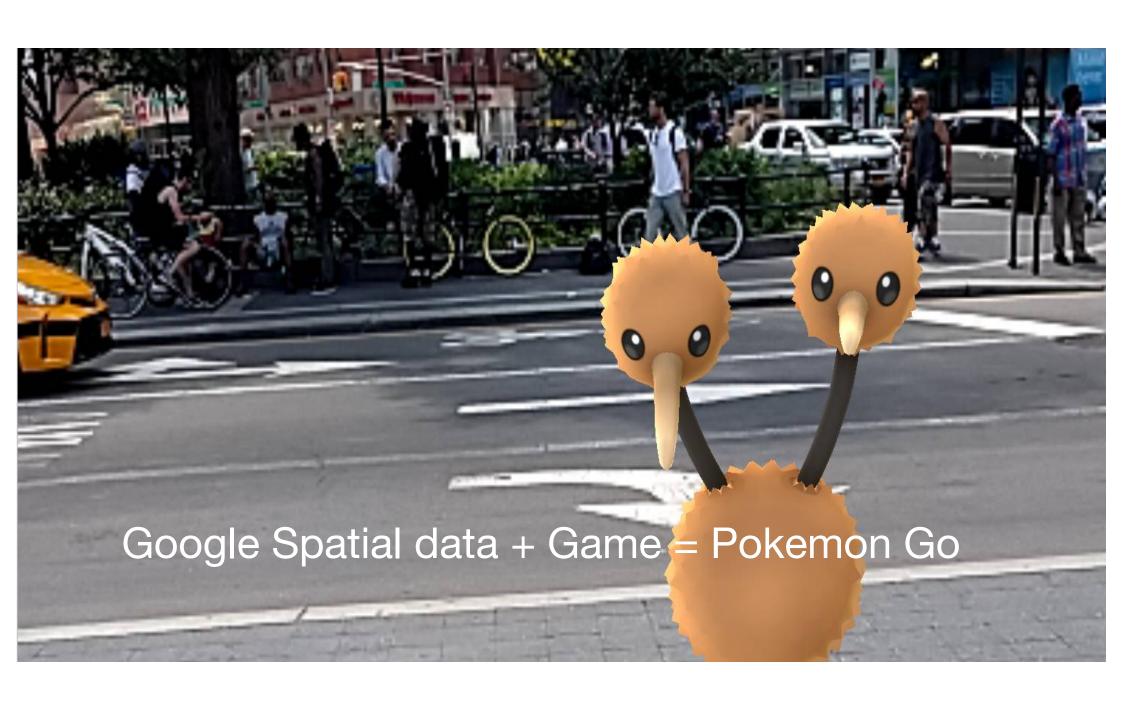
All of these devices, sensors and 'smart things' generate LOTS and LOTS of DATA

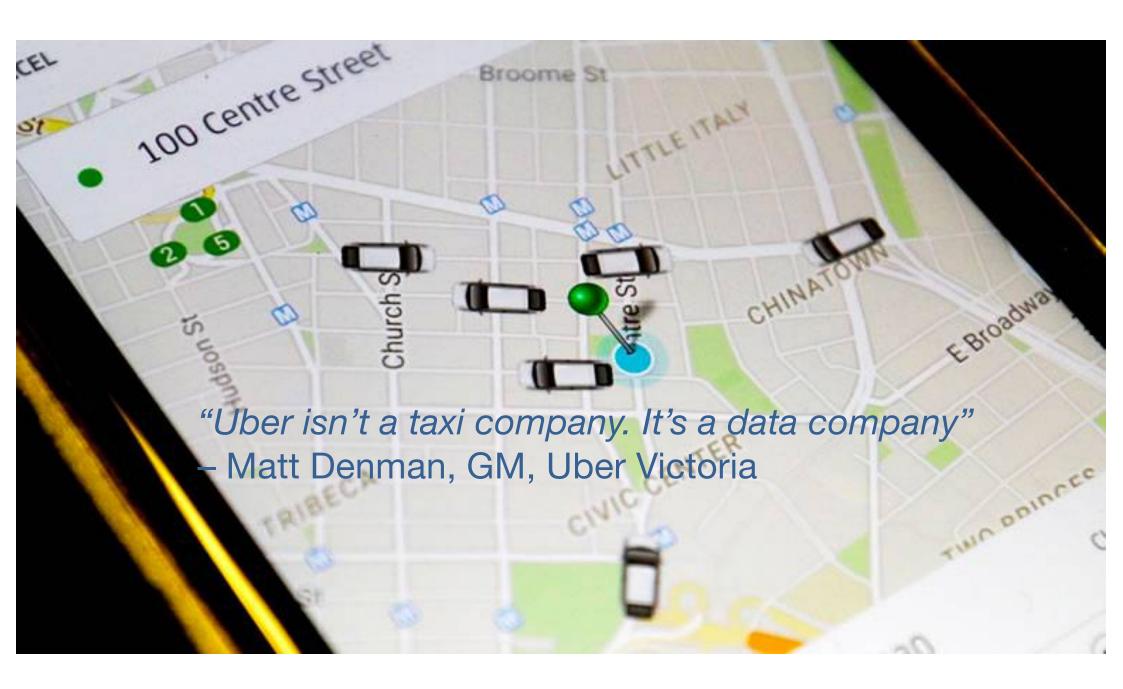


In the new world, it's not the big fish that eats the little fish. It's the fast fish which eats the slow fish.

- Klaus Schwab, Founder & Exec Chairman, World Economic Forum







Meet the new lawyers ...

ROSS

Your Brand New Artificially Intelligent Lawyer

- Hired by US firm Blake & Hostetler for its bankruptcy service in May 2016
- Built using IBM's Watson Al Platform
- O Replaces paralegals, 'grunt work' and provides advice on cases
- Lowers barrier of entry for getting access to legal advice
 - 80% of Americans cannot afford a lawyer despite a surplus of lawyers
- ROSS constantly monitors for new judgments, instantly adapts approach



Meet the new lawyers ...

DoNotPay - the "chatbot" lawyer

- Overturned 160,000 parking tickets in NY & London
 - Case load of 250,000
 - Success rate of 64%
 - Takes 30 seconds
 - Completely free
- Tickets worth a combined US\$ 4 million overturned in just 21 months
- Created by a 19yro with a natural "chat-like" interface
- Next in line is Seattle plus an interface to allow other places to add in local laws



Accounting processes that could be automated

Simple processes

- Audit administration
- Audit documentation
- Audit planning & scheduling
- Audit support
- Data entry
- Issuing tax certificates

O Complex processes

- Asset analysis
- Compliance reporting
- Statutory reporting
- General ledger analysis
- Multiple currency adjustment
- Trend analytics

O Moderate processes

- Bank reconciliation
- Debtor audits
- Issuing audit certificates
- Period reporting
- Risk assessment & audits
- Vendor reconciliation

Artificial intelligence

- Fraud analytics
- Human resource alignment
- Model inventory & prediction
- Period end closing
- Risk management
- Advanced data analytics

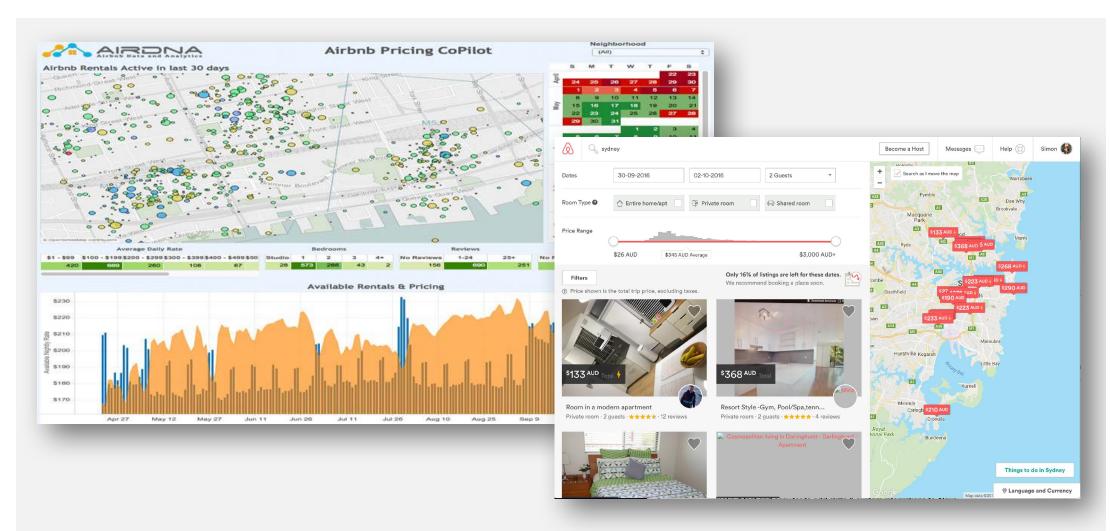


Source: Mindfields

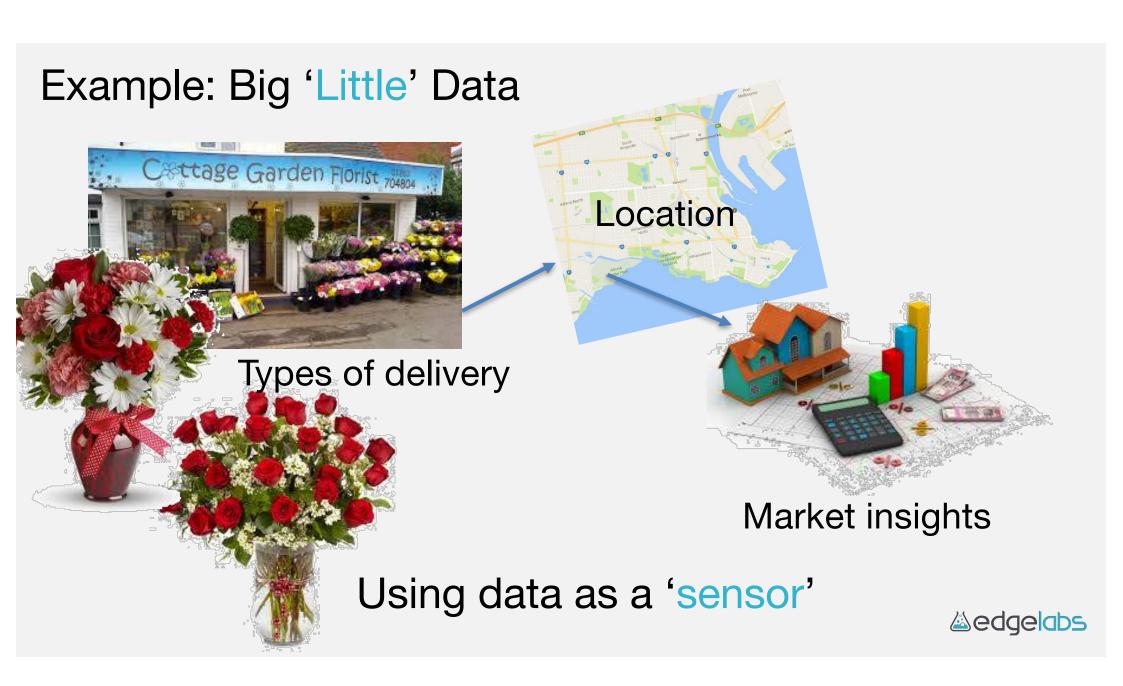




The Alexa Skills Kit is a collection of self-service APIs, tools and code samples that make it fast and easy for to add 'skills' & custom integrations to Alexa.



AirDNA is a set of services that analyse AirBnB rentals in each city to maximise returns for owners.



Products as 'Sensors'



Tesla capture detailed information on drivers, roads to enable them to develop and enhance their self driving technologies

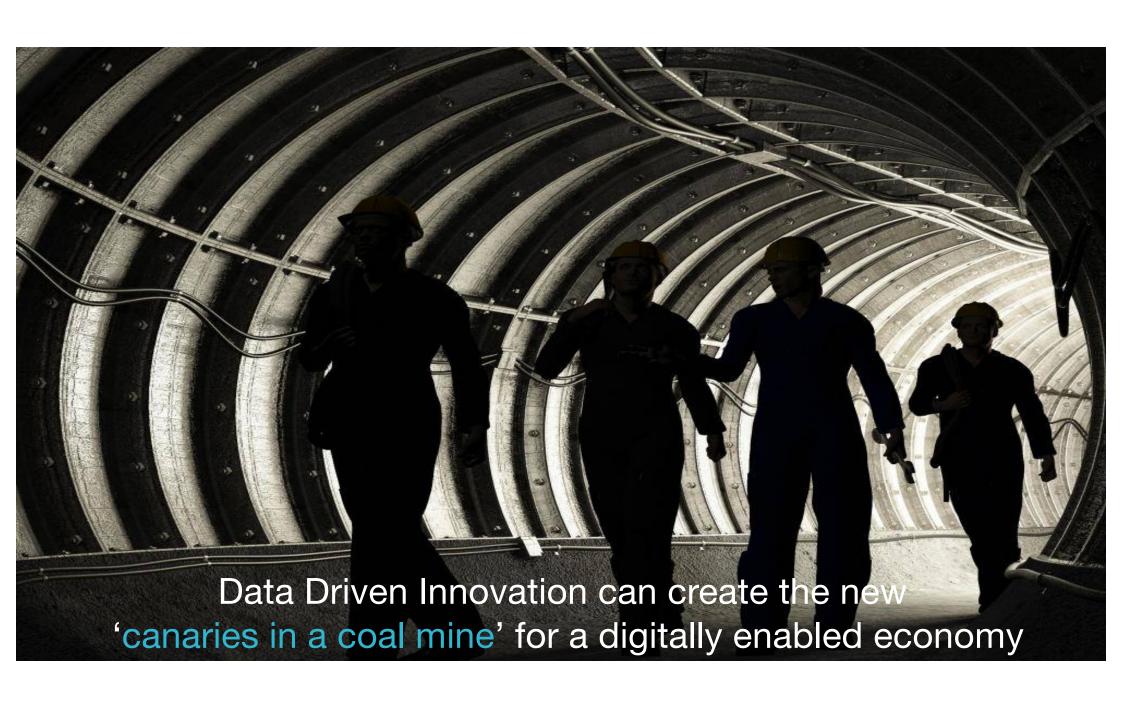


 Apple and other wearable platforms capture information on the wearers health to track activity, and provide diagnostics



Supermarkets do sophisticated analysis of shopping baskets to understand demand patterns, propensity and price sensitivity





Robots & Drones



O Disrupted Jobs:

Delivery drivers, courier drivers, security guards, front desk staff ...

O Follow-on:

Fewer human-driven vehicles needed, fewer jobs for teens ...

But ...

Data driven disruption and automation creates opportunities for new business models, products and services ...





But, so what ??

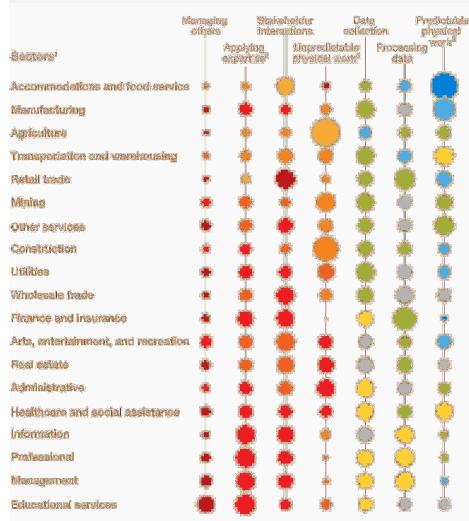


Most people overestimate what they can do in one year, and under estimate what they can do in ten years ...

- Bill Gates



The potential for Data Driven Automation



In practice, autometion will depend on more than just technical featibility. Five factors are involved: technical featibility; costs to automate; the teletive scarcity, skills, and cost of workers who might otherwise do the activity; benefits (eg. superior performance) of automation beyond labor-cost substitution; and regulatory and scalal receptance considerations.

'agricultura includes faranzy, faring, and hunting; other sentions ancludes forest-, saata, and local-government sentions; real estate includes contail multiseting; administration includes administrative aupport and government administration; localiticare and social assistance includes private, state-government, and local-government hospitals; professional includes acientific and technical services; educational services includes private, state-government, and local-government acientis.

Washing expendee to decision making, planning, and creative tests.

Wheredictable physical work to yelds activities and the operation of machinery) is performed in unprodictable similarments, while in prodictable physical work, the environments are prodictable.



Start-ups are driving changes to industry models

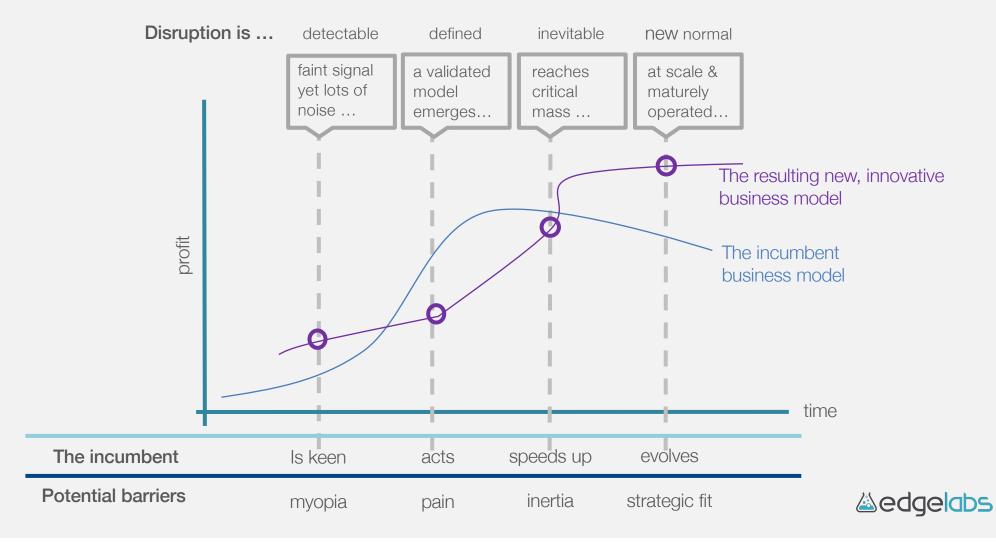
- O Disruption of current capital intensive industries is happening everywhere
- Traditional business models may no longer apply
- New business models track the new opportunities by understanding the drivers behind the customer experience and understanding the data

What if another company gave away the services that you sell ... for free?

How would you react?



Disruption creates a new business journey

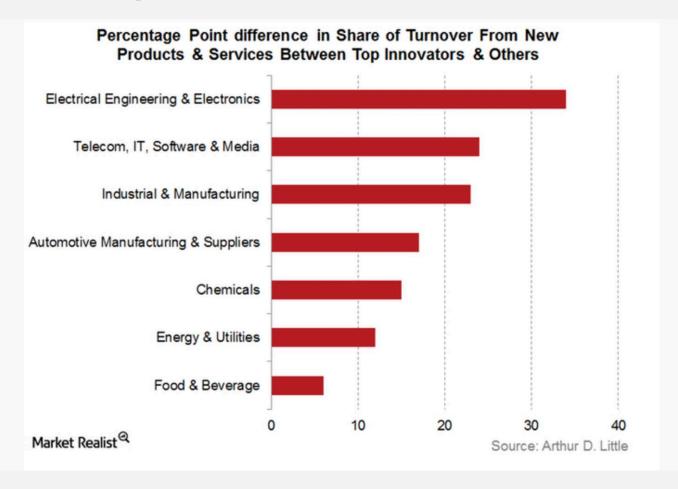


If I have an hour to solve a problem and my life depends on finding the solution, I'd spend the first 55 minutes determining the proper line of inquiry ... once I know how to state the question, the answer would follow in the remaining five minutes

- Albert Einstein



Innovative companies thrive ...



Top innovative companies achieve, on average, 19% more revenue from new products and services *MarketRealist



Conclusions...

- Move towards being a customer-centric organisation
- Leverage Data assets (yours, and the data of others)
- Evolve from small incremental changes to considering disruptive innovation
 - Innovate from a customer & data-led perspective
 - Cultural and organisation mindset
 - Be the thought leader and act like a thought leader
 - Build the ecosystem and represent the change your membership companies need to embrace

Existing enterprises should invest in innovation and build the new factory whilst optimising the current factory



Ideas without actions, are regrets ...

- Steve Jobs





Advise.Incubate.Execute

Our story ...

Founded four years ago, edgelabs are a specialist innovation consultancy built to provide the very best independent and expert **Advisory** services to our clients, supported by the hands on skills needed to test and **Incubate** this advice and successfully **Execute**and to see it delivered at scale

The edgelabs team are founders of successful listed US, European and Australian based start-ups, senior and C-suite executives who are supported by specialists in technology, data, product development, marketing, communications and customer-centric design

With deep skills across a broad range of disciplines, edgelabs have created a substantial portfolio of original intellectual property which has contributed to our role in seeding start-ups and innovation initiatives within enterprises that have delivered transformations in capabilities, culture and customer experiences

Our portfolio of clients include Jetstar, Telstra, Nab, CBA, ME Bank, Nextgen Networks, the Victorian Government, CareConnect, Australia Post, Yammer, Jemena Networks, Suncorp, Salesforce.com and MYOB

All of our work has been sponsored, discussed and reviewed at a CEO or board level, and includes the development of Telstra's Big Data strategy, CBA's mobile strategy, AusPost's digital customer experience strategy, Nab's product innovation strategy, MYOB's Shared IT Services restructure, ANZ's Innovation pipeline, ANZ's partnership with Xero, The Victoria Government's innovation strategy, Nab's private cloud initiative, Nab's Asia platforms, Jemena's asset management strategy, Suncorp's customer engagement and marketing strategy and Nextgen's 15x15 strategy



What we believe ...

ADVISE • We believe that the best advice is independent, open and honest

To ensure this, edgelabs partners with customers first before introducing any specialists, vendors and service providers in order to access additional capabilities, and we establish a clear understanding of goals with our customers before undertaking any engagements

INCUBATE • We believe that new capabilities and change can be implemented rapidly and effectively

Through the use of customer centric design and rapid iteration, edgelabs incubates new capabilities across organisations, product portfolios and markets, quickly establishing the fundamentals for innovation, transformation and rapid execution

EXECUTE • We believe that agile teams working to a common focus deliver strong outcomes

Blending edgelabs, customer and strategic partner capabilities and defining clear goals against strong design and delivery principals, we ensure that teams deliver concrete results using agile methods and an approach of continuous delivery



What we deliver ...

Strategy & Advisory

Capability Incubation

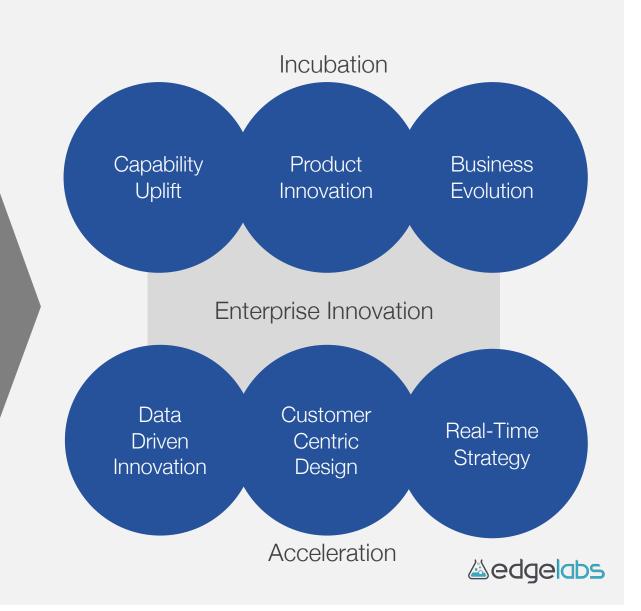
Product Design & Delivery

Data Sciences & Analytics

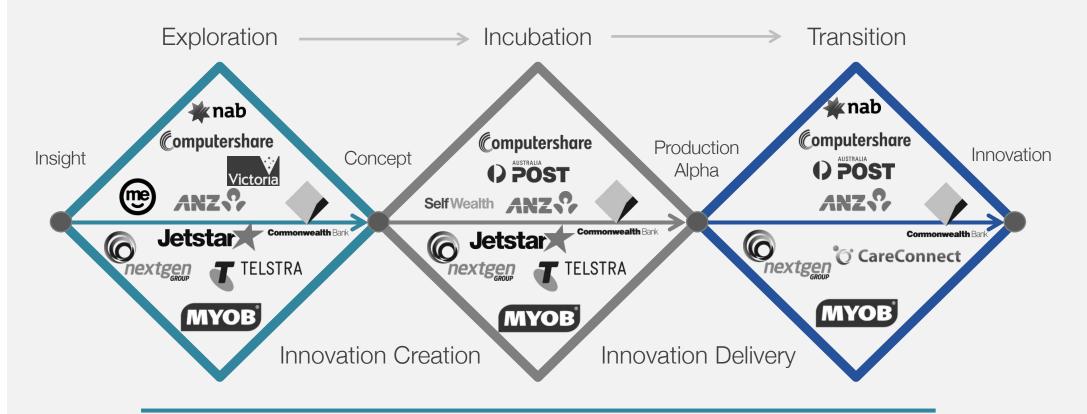
Innovation Design

CX, UX, EX, OX & PX

Development & DevOps



We have done this before ... (we are doing this now)



We understand the challenges & complexity of enterprise



Key team members ...



Stuart Hudson

Partner and CTO, a renowned technologist with experience across financial services, telecommunications, utilities, health and retail in Australia, US, Europe and Asia-Pacific.



Founder of edgelabs, with a 20yr career across financial services, telecommunications and technology sectors in Australia, the US and Asia-Pacific leading innovation and product development within both start-ups and enterprise.



Jen Storey

Partner and CXO, a renowned innovation, marketing and product expert with experience across financial services, insurance, retail and FMCG in Australia and the US.



Senior Associate with a career across retail, financial services, and health sectors, an expert in customer-centric design, innovation and go-to-market strategy.



Adam Todhunter

Partner and Practice Lead, with a extensive record and outstanding reputation as COO CIO and senior executive within Enterprise and Government



Greg Collier

Partner, is an experienced people leader, business manager, executive coach, facilitator and consultant with experience working throughout Australia and internationally in Dubai, Singapore, Vietnam, China, Hong Kong, India, Pakistan, New Zealand, The Philippines and Fiji.



Dominic Collins

Senior Associate with a career across financial services, telecommunications and not-for-profit sectors in Australia, an expert in data analysis, financial analysis, and commercial strategy.



Alastair Pryor

Senior Associate and Former Victorian Young Entrepreneur of the Year, has a wealth of real-world experience gained from founding and running startups. He has expert knowledge in taking ideas from concept through to reality.





The future, as always belongs to the brave

- Bill Bernbach, the "B" in DDB



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