

CDAO New Zealand

4-5 NOVEMBER, 2020

CONNECTING YOU TO WHAT'S NEXT IN DATA

AI Powered Matchmaking | 40+ Expert Speakers | Exhibition Hall



CDAO New Zealand Day One

Wednesday 4th November 2020

Hilton Auckland

08:00	Registration, Coffee & Connection in the Exhibition Area
08:40	Chair's Opening Remarks
08:50	Connection Spark: Let's start how we mean to go on, in discussion making valuable industry connections.
DATA AND ANALYTICS IN A POST-COVID WORLD	
08:55	International Keynote Presentation <u>Speaker:</u> Eileen Vidrine, Chief Data Officer, United States Air Force
09:20	Keynote Presentation: The importance of data to decision making COVID-19 showcased the importance of data to decision making, and this is the story of Stats NZ's involvement in providing this support, including how it's rethinking its approach to data delivery following the success of its COVID-19 data portal. This session will focus on: <ul style="list-style-type: none">• Finding and taking an innovative approach to compiling and presenting the data needed to respond quickly and effectively to the crisis• The role of Stats NZ's commercial arm, Data Ventures in helping to develop the Covid-19 data portal• Managing challenges around data management, accessibility and transparency• Lessons learnt along the way and ideas for the future <u>Speaker:</u> Mark Sowden, Chief Executive and Government Statistician, Statistics New Zealand
09:45	Thought leadership presentation

10:10	<p>Keynote Discussion Panel: Data-driven Decision Making during a Crisis</p> <p>Data is the fuel for decision making – day-to-day decisions and strategic decisions. During the COVID-19 pandemic, data was the lifeblood of every country’s response. This panel discussion will explore what that decision making looked like in NZ, and what were the lessons learned.</p> <ul style="list-style-type: none"> • What does interdisciplinary knowledge really look like? • Data sharing – and why the value of those models can only increase with sharing • Examining the usefulness of information in a context like this • How to consider all the evidence in decision making • How do we measure the effectiveness of different data decisions? • How do you explain it and communicate it to the public? <p>Panellists: Dame Diane Robertson, Executive Director, The New Zealand Data Trust Emily Mason, Chief Executive and Co-founder, FrankAdvice and Impact Lab Kevin Ross, CEO, Precision Driven Health</p>
10:40	<p><i>Morning Coffee. Get Refreshed! Mingle.</i></p>
11:10	<p>Session reserved for Acumen BI</p>
11:35	<p>Case study: The future of data and analytics post-COVID-19</p> <p>COVID-19 has caused a dramatic shift as the linear future we were predicting no longer exists. This applies to the economy, the job market, the balance of skills needed for a prosperous NZ and what customers are demanding. It also applies to how we lead through data and analytics. For us in the data and analytics business, this means:</p> <ul style="list-style-type: none"> • The analytics will only be as relevant as the decision and question along with it for the front line analytics piece: How do I ask the right questions of our data? • What new influencers do we need to be listening to, from the environment and our customers? • What do we stop listening to? • ML and predictive analytics: How do we get the machine to detect changes and forecast the new future? • How do we set our teams up to be responsive to questions we can’t predict? • How do we take our organisations and our execs on this new journey, when the data will be telling them something quite different to before • We are now operating in an environment where data savviness has improved significantly (everyone was watching COVID unfold by the numbers and visualisations). How do we build off this jump? <p><u>Speaker:</u> Jan Sheppard, Chief Data Officer, Tertiary Education Commission</p>
12:00	<p>Thought leadership presentation</p>
12:25	<p>Keynote Panel Discussion: What is Future of Data and Analytics post-COVID-19?</p> <p>Correlation tells you how numbers interacted in the past, but it doesn’t tell you the structure of that data. After a shock, the ability for data leaders to forecast future scenarios is so much harder, as you can’t just draw on previous trends. This panel will examine:</p> <ul style="list-style-type: none"> • What will the post-COVID business look like? Will there be a major swing to online? • To what extent will data and analytics play a more important role in most organisations? • What digital trends have been accelerated for organisations? • How do data and analytics leaders support organisations during a crisis? • Do we see a reverting back to a tried and tested (and not necessarily right) data approach during a crisis? • What happens when you cannot use historical data to make decisions? • How have businesses had to change their approach around systems and frameworks? <p><u>Panellists:</u></p>

	<p>Evelyn Wareham, Chief Data & Insights Officer, Ministry of Business, Innovation and Employment Brian Ferris, Chief Data and Analytics Officer, Loyalty New Zealand Mazen Kassis, Head of Data & Analytics, Foodstuffs North Island Caroline Izzard, General Manager, Data and Insights, TVNZ Tony Aitken, GM Data and Analytics, Auckland Transport Kevin Ross, CEO, Precision Driven Health</p>		
12:55	<p><i>Buffet Lunch & Networking in the Exhibition Area</i></p> <p>Meet in our Discussion Corner with like-minded peers and talk about the following themes:</p> <ul style="list-style-type: none"> • Modern Data Architectures • Machine learning for good governance • Big Data as a Service • Data Lineage 		
	<p>Track A: Data Governance and Quality</p>	<p>Track B: Strategy & Analytics Implementation</p>	<p>Track C: Data Leadership Discussions</p>
	<p><i>Delegates can attend sessions from any of the three tracks</i></p>		
13:55	<p>Presentation What 'ethical' means in terms of data privacy and governance One of hand we talk about ethics as doing the right thing with data - but we don't talk about doing the right thing by whom. Whose interest are we operating in? This discussion will go to the heart of the following issues:</p> <ul style="list-style-type: none"> • Organisational culture – do we believe that the customers or the organisation own a person's data? • Making sure customers know what their rights and responsibilities are • What does the group think of the notion of a legal definition of data sovereignty? Is it less a case of ownership or is it more about rights and responsibilities? <p>Session reserved erwin Inc</p>	<p>Presentation Why Your Data Science Architecture Should Include a Data Virtualization Tool Advanced data science techniques, like machine learning, have proven an extremely useful tool to derive valuable insights from existing data. Platforms like Spark, and complex libraries for R, Python, and Scala put advanced techniques at the fingertips of the data scientists.</p> <p>However, most architecture laid out to enable data scientists miss two key challenges:</p> <ul style="list-style-type: none"> • Data scientists spend most of their time looking for the right data and massaging it into a usable format • Results and algorithms created by data scientists often stay out of the reach of regular data analysts and business users <p>Attend this session to understand how data virtualization offers an alternative to address these issues and can accelerate data acquisition and massaging. And a customer story on the use of Machine Learning with data virtualization.</p>	<p>Data-Driven Leaders Panel: Privacy During a Pandemic Privacy and trust are becoming increasingly important in the public conversation. When health outcomes are of paramount importance, and policy is moving at pace, does a citizen's privacy become a luxury?</p> <ul style="list-style-type: none"> • Has the epidemic increased the public's fear of data misuse? Or brought to light the vital importance of data-driven decision making? • Open data and the ethical use of public data • What do organisations need to do above and beyond legal compliance? Delivering on trust to your customers • Why businesses need to take a holistic approach to customer privacy, ethics, compliance and digital trust • What the recent privacy changes from Silicon Valley tell us about the changing global data privacy landscape <p><u>Panellists:</u> Nic Aagaard, Principal Advisor, Ethics, Quality Assurance and Safety, Health System Improvement and Innovation, Ministry of Health Sarah Auva'a, Lead Digital Trust Partner, Spark New Zealand</p>

		<p><u>Speaker:</u> Chris Day, Director, APAC Sales Engineering, Denodo</p>	
14:30	<p>Presentation Covid-19 Contact Tracing Apps: What works?</p> <ul style="list-style-type: none"> • What are the technical pre-requisites for a useful app? • What level of take up is required? • How important is social licence? • How does the roll out of NZ's "Contact Tracer" compare internationally? • Insights from a 2020 working paper "Digital Contact Tracing for COVID-19: A Primer for Policymakers". <p><u>Speaker:</u> Nina Anchugina, Deputy Director/Senior Data Scientist, AUT Centre for Social Data Analytics (CSDA), Auckland University of Technology</p>	<p>Case study Case study: Data led partnerships - How the result is greater than the sum of its parts</p> <ul style="list-style-type: none"> • What public datasets are out there and what are the barriers to their use. • Augmenting public data sets with new information for commercial outcomes • Introducing homes.co.nz case-studies of how sharing data and analytics across organisations can generate new value <p><u>Speaker:</u> Tom Lintern, Head of Commercial, Chief Data Scientist, homes.co.nz</p>	<p>Discussion Group Data and Ethics - Where are we going from here?</p> <ul style="list-style-type: none"> • To what extent are we moving away from the traditional approach of using public data? • Discussing the ethical issues of how data is collected and used • If people are willing to share their data, should they have a say in how it is used? • Why people should be benefitting from open data • The implications of data collection on marginalised communities <p>Moderator: Kevin Sweeney, Principal Advisor - Data Leadership & Capability, Stats</p>
15:05	<p>Presentation What does a good data governance structure look like?</p> <ul style="list-style-type: none"> • Who should be part of the committee? • What frameworks should be used? • Strategies for ensuring data governance is prioritised within your organisation • What are the minimums any business needs to do to get a good foundation? • How do we handle PII (personal identifying information)? <p><u>Speaker:</u> Tony Aitken, GM Data and Analytics, Auckland Transport</p>	<p>Case study Building Data and Analytics Self-service into your organisation</p> <ul style="list-style-type: none"> • Ensuring your governance and data literacy fundamentals are in place • Maximising what data is available to your business units and how they can interpret it • How to achieve real success increasing data literacy across the organisation • How do you know you trust the data you have been given? <p><u>Speaker:</u> Ali Khan, Head of Data, Auckland District Health Board</p>	<p>Discussion Group: Selling your data story within your business</p> <ul style="list-style-type: none"> • Balancing the art of the possible with your ability to deliver and meet expectations • Communicating to the company what data they need to move forward <p><u>Moderator:</u> Kitty Ling, Senior Manager / NZ Lead Retail Analytics, Woolworths NZ Limited</p>

FUTURE PROOFING YOUR DATA AND ANALYTICS STRATEGY

<p>16:10</p>	<p>Presentation Humanistic Data Governance</p> <ul style="list-style-type: none"> • Deep dive on an Operational Data Governance Framework <p><u>Speaker:</u> Kevin Sweeney, Principal Advisor - Data Leadership & Capability, Stats NZ</p>	<p>Case study ML and predictive analytics - getting your business ready</p> <ul style="list-style-type: none"> • Creating predictive data sets for better customer experience • Experience with the ML models we use for demand forecasting and some earlier work on churn. • The data sets and business approach and what is needed to be successful • How do we create data products that have a lifecycle rather than one off pieces of work? • What data architecture is required? • How do we get the machine to detect changes and forecast the future? <p><u>Speaker:</u> Kieran Turner, Head of Data and Analytics, Z Energy Limited</p>	<p>Discussion Group Citizen Data Science – the inevitable way forward?</p> <p>The move of Data and Analytics from centralised to federated is a global mega-trend. The importance of the Citizen Data Scientist (people with analytical skills in the business) is increasingly pivotal to the success of D&A within organisations.</p> <p>This session will look at the practical steps that are needed to make this collaborative relationship between the core D&A team, and the business Citizen Data Scientists, work effectively.</p> <p><u>Moderator:</u> Mike Congdon, Business Insights Manager, OfficeMax</p> <p>Tim Reed, Head of Data Delivery and Product, New Zealand Post</p>
<p>16:35</p>	<p>Case study Overcoming Data and Analytics Programme Barriers</p> <p>What are the practical steps that can be taken to tackle common organisational barriers to the success of D&A programmes, such as:</p> <ul style="list-style-type: none"> • Cultural resistant to change, • Lack of investment (funding/resource), • Organisational poor data literacy, • Lack of relevant D&A skills/staff. • Engagement and Prioritization • Expectation Setting <p>This talk will also look at balancing the art of the possible with your ability to deliver and meet expectations</p> <p><u>Speaker:</u> Richard Griffin, Head of Data, TOWER Insurance</p>	<p>Case study Data Ventures mobility mapping (especially as a COVID-19 use case)</p> <p><u>Speaker:</u> Drew Broadley, Executive Director at Data Ventures, Stats NZ</p>	<p>Discussion Group Understanding if and how AI may add value to your business</p> <ul style="list-style-type: none"> • Is today's AI simply yesterday's statistical modelling? • Where does the value of AI really lie compared to simpler, faster, and cheaper methods of advanced analytics? • Is the value in the technology or the business challenge/opportunity? <p><u>Moderators:</u> Dr Andrew Peterson, Head of Group Data Science, The Warehouse Group</p> <p>Scott Brooker, Head of Business Intelligence, Yellow</p>

17:00	<i>End of Day One Chair's Remarks</i>
17:05	Now Cheers with Peers with our CDAO networking fun! <i>Opportunity to continue the conversations in the cocktail reception.</i>

CDAO New Zealand Day Two

Thursday 5th November 2020

08:00	<i>Registration, Coffee & Networking in the Exhibition Area</i>
08:50	<i>Chair's Opening Remarks</i>

DEMONSTRATING VALUE TO THE BUSINESS

09:00	<p>Keynote International Presentation Data-as-a-Service.... The Holy Grail</p> <p>Organisations all know that during moments of crisis, the first thing they need is trusted data for their insights and decision making. This keynote charts the course from basics to the Holy Grail of Data-as-a-Service, and examines:</p> <ul style="list-style-type: none"> • Data Management is about connected thinking • Business Strategy driving the Data Strategy • The benefits of an applied Data Governance Framework • Deploying a simplified Data Strategy Model • Data-as-a-Service: agile, scalable and consistent <p><u>Speaker:</u> Anwar Mirza, Data Strategy & Governance Advisor, FedEx Express</p>
09:25	<p>National Ethics Advisory Committee Perspective: Data ethics and contact tracing</p> <ul style="list-style-type: none"> • Ethics and public health interventions • WHO • NZ hosted the summit of bioethics • They had a pandemic ethics document • Providing ethics guidelines for a pandemic • Data apps, AI <p><u>Speakers:</u> Nic Aagaard, Principal Advisor, Ethics, Quality Assurance and Safety, Health System Improvement and Innovation, Ministry of Health</p>
09:50	<p>Future of work post-COVID-19</p> <ul style="list-style-type: none"> • Will the workplace become truly flexible? • If organisations can be productive with a remote structure offices need to exist? • How did COVID accelerated self-service? • What has been the impact on our ability to service the business quickly? <p><u>Speaker:</u> Kari Jones, GM, Data & Analytics, New Zealand Post</p>

10:15	<i>Get Refreshed! Mingle</i>		
10:45	Session reserved for Enterprise IT		
11:20	<p>Culture is King: Fostering a Culture of Excellence in Data and Analytics We know that prioritising data is something that comes from the top management – but how do we get this to happen? This panel will examine:</p> <ul style="list-style-type: none"> • Becoming a truly data enabled business - What organisational culture is required? • Accelerating change through technology. • Establishing a start-up-like culture to foster innovation • Adjusting strategies to emphasise data and analytics • How your analytics team can involve the sponsors on the journey with them • How to get your execs to ask for what they truly need • What does it mean to embrace a data culture? • How does data and analytic help execs to sell their story? • Why you need to know your stakeholders and know their data level of maturity • How to you take them on the journey of what they can achieve with the data <p><u>Speaker:</u> Vipin Gopal, PhD, VP, Chief Data and Analytics Officer, Eli Lilly and Company (USA)</p>		
11:45	<p>Presentation: MBIE's experiences sourcing innovative data and producing actionable insights to enable New Zealand's COVID19 response and economic recovery</p> <p><u>Speaker:</u> Evelyn Wareham, Chief Data & Insights Officer, Ministry of Business, Innovation and Employment</p>		
12:10	<p>Keynote Discussion: Getting up the value chain - How do you demonstrate value in a time of uncertainty?</p> <ul style="list-style-type: none"> • Moving up the value chain to ensure you data and analytics team is achieving its full potential • How to move from reporting function to strategic analytics function • Working on the most important business problems • The idea of analytics team being an order taker – need to become a partner in business problem solving that can be commotised • During a recession, how would you run business as usual data teams do on a smaller budget? <p><u>Panellists:</u> Jan Sheppard, Chief Data Officer, Tertiary Education Commission Kieran Turner, Head of Data and Analytics, Z Energy Limited Kari Jones, GM, Data & Analytics, New Zealand Post</p>		
12:40	<p><i>Buffet Lunch & Networking in the Exhibition Area</i></p> <p><i>Meet in our Discussion Corner with like-minded peers and talk about the following themes:</i></p> <ul style="list-style-type: none"> • Modern Data Architectures • Machine learning for good governance • Big Data as a Service • Data Lineage 		
	Track A: Data Governance and Quality	Track B: Strategy & Analytics implementation	Track C: Data Leadership Discussion Groups
	<i>Delegates can attend sessions from any of the three tracks</i>		

13:40	<p>Case Study Aligning data and reporting improvement to enhance asset management</p> <p><i>Speaker:</i> Huazhuo Lin, Chief Data & Analytics Officer, WEL Networks</p>	<p>Case study Doing More with Less - Case studies on making it happen, with the nuts and bolts of the execution</p> <p><i>Speaker:</i> Steven Parrish, Chief Information Officer, Taranaki District Health Board and Interim SRO - eSPACE Programme, Healthshare</p>	<p>Think-Tank — <i>Invitation only</i></p> <p>Discussion Group Ensuring the Ethical use of AI</p> <ul style="list-style-type: none"> • Ensuring AI complies with human rights law • Why AI needs to be used in ways that minimise harm • Why humans need to be accountable for the way AI is used. • Fairness in Machine Learning – how is this managed? • Machine learning for good governance
14:05	<p>Case Study: How supercomputing and data science are super-charging NIWA’s environmental science</p> <ul style="list-style-type: none"> • Highly scalable end to end AI • Getting data governance in place to take advantage of AI systems <p><i>Speaker:</i> Dr Kameron Christopher, Chief Scientist - High Performance Computing and Data Science, NIWA (National Institute of Water and Atmospheric Research)</p>	<p>Case study Using data insights to educate home buyers to reduce harm and enable a better home buying experience</p> <ul style="list-style-type: none"> • How to identify vulnerable home buyers at risk of harm • Understanding home buyers’ issues and what’s causing them • Developing Risk Assessment Models to identify those at risk of causing harm • How to reach, educate and inform home buyers to help them mitigate risks and change behaviour <p><i>The consumer brand settled.govt.nz was a 2019 finalist in the State Service Commission public sector Service Excellence Awards, has around 3,000 Kiwi home buyers and sellers visiting it every day for information and guidance, has had 1.75M website sessions in just over two years since launch and we receive average ratings of 9 out of 10 for users experience of the site.</i></p> <p><i>Speaker:</i> Steven Bruce, Head of Strategy & Insights, Real Estate Authority</p>	
14:30	<p>Case study As you scale up your data capabilities, how do you manage the data governance framework?</p> <ul style="list-style-type: none"> • How good data governance enabled this organisation to 	<p>Case study Building Scalable Data & AI environments</p> <ul style="list-style-type: none"> • How do business that don’t have in house expertise figure out what is hype around AI 	<p>Discussion Group Data risk and governance in a remote working environment – the cultural and human aspect of disruption</p> <p>For many companies their risk appetite and posture has changed with staff working from home. “Out of sight and out</p>

	<p>have a competitive advantage</p> <ul style="list-style-type: none"> Ensuring your data governance is in place in order to generate full benefit from AI Fixing the challenge of legacy systems to ensure data quality Assigning the correct roles and responsibilities to ensure good foundational data quality <p><u>Speaker:</u> Dr. Figen Ulgen, Head of Analytics and Insights, Woolworths NZ</p>	<p>versus what is truly value adding</p> <ul style="list-style-type: none"> Emerging technologies that connect and validate data Everyone talks about AI, but what does it really mean? Is it more than just a fancy programme? Is it realistically applicable? What is the technology stack around that data? <p><u>Speaker:</u> Paulo Gottgroy, Data Centre of Excellence Manager, Mercury Energy, and Executive Council, AI Forum NZ</p>	<p>of mind” has never been so relevant as it is during this pandemic where we have entire functions straining approved access points and networks, all the while having to trust that client side aspects are secure.</p> <ul style="list-style-type: none"> Security, privacy and data protection in a remote working environment How do we make our systems better for working remotely? Security implications of fast adoption of cloud storage <p><u>Moderator:</u> Anna Tarasoff, Head of Data and Analytics Capability, Southern Cross Health Society</p>
14:55	<i>Get Refreshed! Mingle and connect.</i>		
15:25	<p>Keynote Presentation What’s required of data and analytics teams and their leaders in the future?</p> <ul style="list-style-type: none"> Future skill set required Empathetic leadership: What is it and how can it unlock the potential of your team? Retention of that talent How does data become part of the business DNA? It needs to be in core decision making <p><u>Speaker:</u> Bora Arslan, Global Chief Data and Analytics Officer, IAG</p>		
15:50	<p>Case study Tennis NZ: Improving NZ Athletes performance based on data analytics</p> <p>During the lockdown, since no tournaments, events or coaching was allowed, Tennis NZ decided to look at all the data on all tournaments and players in NZ over the last few years to identify any patterns and trends that would give them ideas on how to improve athletes performance. As a result they developed great data models and tools which will turn NZ Tennis into a data driven industry. This was in three main areas:</p> <p>National Tennis Match Statistics:</p> <ul style="list-style-type: none"> Looked at all the tennis matches played around the country. Found trends in rankings and match competitiveness that will influence competition structures going forwards to increase the competitiveness of all playing pathways. Created a tool for players and coaches to view win/loss ratios, playing habits and to provide recommendations about which competitions to play for the best development. <p>Physical Testing Database</p> <ul style="list-style-type: none"> Created and used the database to create national averages for each age group. Players around the country can now assess their strengths & weaknesses and compare themselves to national and international averages and also physical benchmarks required for team selections. Tennis NZ can track the averages over time to see the effects of training interventions on the physical abilities of age groups. <p>Athlete Well-Being Monitoring Tool</p>		

	<ul style="list-style-type: none"> Created a tool to record and analysis daily subjective measures of athletes as well as their perceived difficulty of training sessions <p>Can use this tool to provide recommendations to athletes and coaches around improving sleep, recovery, training and competition schedules as well as managing injuries.</p> <p><u>Speaker:</u> Matthew Alexander, Academy Coach, Tennis Northern</p>
16:15	<p>Closing Keynote Discussion Group Becoming a truly data enabled business - What organisational culture is required?</p> <p>We know that prioritising data is something that comes from the top management – but how do we get this to happen? This panel will examine:</p> <ul style="list-style-type: none"> How your analytics team can involve the sponsors on the journey with them How to get your execs to ask for what they truly need What does it mean to embrace a data culture? How does data and analytic help execs to sell their story? Why you need to know your stakeholders and know their data level of maturity How to you take them on the journey of what they can achieve with the data <p><u>Panellists:</u> Astrud Burgess, Head of Data and Marketing, ANZ Bank Neville Richardson, Chief Information Officer, Gallagher Linley Jesson, Group Leader Data Science, Plant and Food Research</p>
16:45	<p><i>Close of CDAO New Zealand</i></p>