

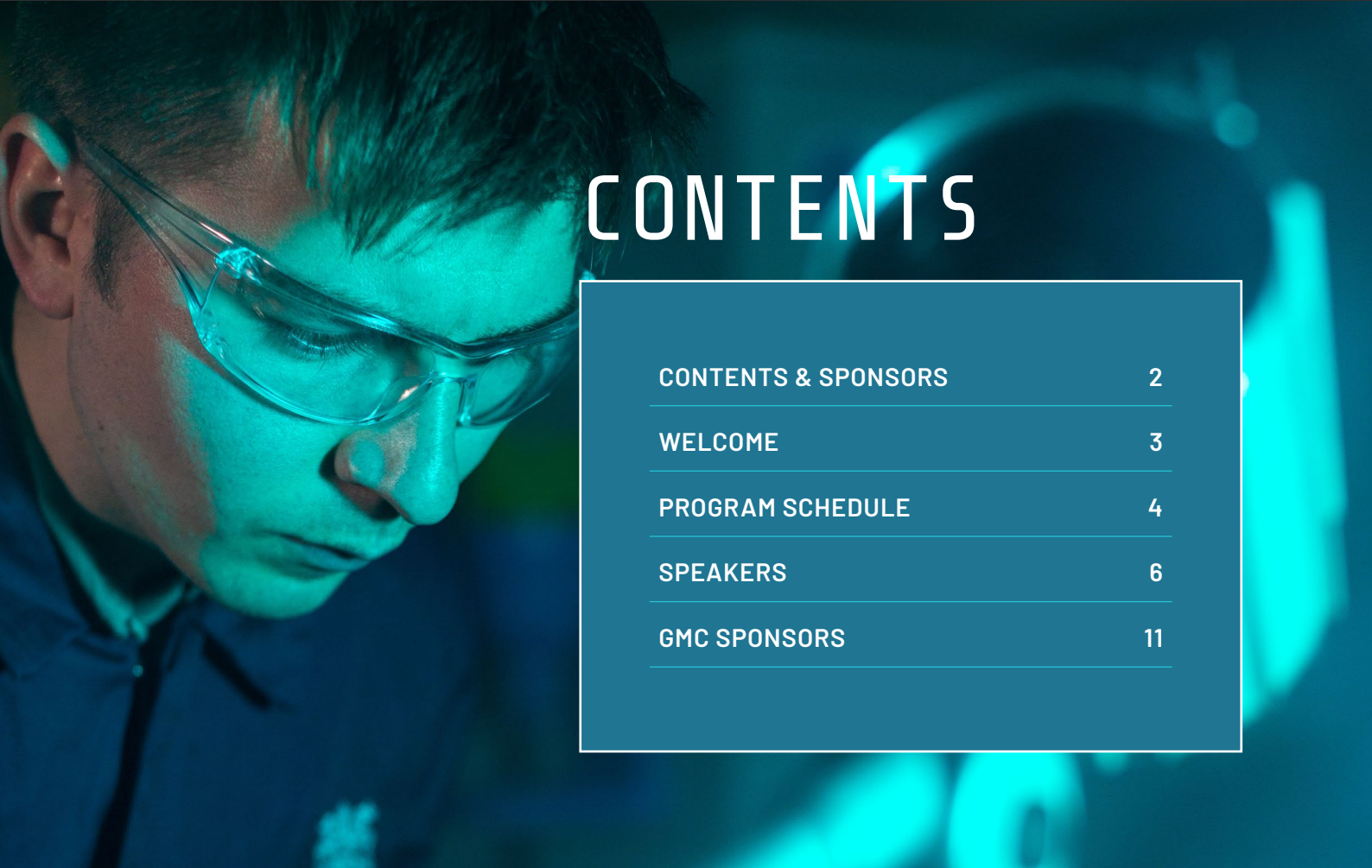


PRESENTS

2022 TECHNOLOGY & INNOVATION SUMMIT

Exploring new opportunities for manufacturing

April 21 2022, GMHBA Stadium, LaTrobe Terrace, Geelong
technologyandinnovationsummit.com.au



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THE 2022 TECHNOLOGY AND INNOVATION SUMMIT WOULD NOT BE POSSIBLE WITHOUT OUR WONDERFUL SPONSORS

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WELCOME

One of the great strengths of Geelong as a manufacturing city is the genuine sense of connection we share with each other and with the city.

It is in this spirit of collaboration that I welcome everybody to our 2022 Technology and Innovation Summit.

To get together again, to share our stories, to meet new people and to learn and be inspired by each other are activities we've missed these past couple of years.

The Geelong Manufacturing Council is proud to present this summit which sits squarely across the three key pillars of the GMC's strategic goals. They are:

- Growing skills, capabilities and opportunities;
- Enhancing the entrepreneurial ecosystem and attracting investment; and,
- Creating a positive manufacturing environment.

All here today share a desire to see our industries flourishing, equipped with leading edge skills and a competitive global outlook.

One of the legacies of the pandemic is that Australians have a new appreciation for the challenges of supply chain disruption and the need for sovereign manufacturing capability.

We have put together a comprehensive program that is focused on the key opportunities for our manufacturers in a world that continues to change before our eyes.

Emerging technologies, innovative business models and enduring industry-research partnerships hold the key to building a more resilient manufacturing industry.

I thank all our speakers for the enthusiasm they have shown in taking part in today's discussions.

Of course, this event could not happen without the generosity of our Major Summit Partners – the City of Greater Geelong, PPK Group, Deakin University & IMCRC, and Viva Energy – and our Supporting Partners, KPMG and the Applied Artificial Intelligence Institute at Deakin University.

I also take this opportunity to acknowledge the commitment and crucial support of our GMC Major Sponsors and Industry Sponsors – highlighted later in this program – and our GMC and ENG network members, many of whom helped establish the GMC a quarter of a century ago. These companies and organisations are proudly writing a vibrant next-generation chapter in the rich story of manufacturing in Geelong.



Jennifer Conley

CEO, Geelong Manufacturing Council

Time	Session Details
8.00 a.m.	Registration (coffee and tea on arrival)
8.30 a.m.	Acknowledgment of Country & Welcome to Event Lyn George OAM (GMC Chair), Trent Sullivan (Deputy Mayor, City of Greater Geelong)
9.00 a.m.	In Conversation: Large-Scale Energy Transformation Paul Ebert (Worley) & Lachlan Pfeiffer (Viva Energy) speak with Jenn Conley (GMC CEO) on large-scale energy transformation. The energy transition requires large-scale solutions not seen outside of wartime. What will it take?
9.30 a.m.	New Technology Opportunities: Roadmap to Net Zero Session Chair Robert Hill, Chairman Viva Energy Panelists Steven Skala (CEFC); Shaun Cumming (Barwon Water); Thomas Schmitz (Equis) Panel Discussion <i>Innovative solutions meeting the global challenge of getting to Net Zero.</i> <i>Hydrogen, new generation batteries, biofuels are all yielding promising results.</i> <i>Solar and wind market & regulatory challenges remain.</i> <i>What are the solutions for battery recycling for EVs and grid-scale batteries?</i> <i>The great hope is Victoria in 30 years' time will be powered by hydrogen. How will this be achieved?</i>
10.30 a.m.	Morning Tea Break
11.00 a.m.	In Conversation: The Barriers and Enablers to Industry-Research Collaboration Thys Heyns (GMC Deputy Chair) and Iain Martin (Vice-Chancellor Deakin University) discuss the barriers and enablers to industry-research collaboration and the research sector's role in driving innovative manufacturing.
11.20 a.m.	Innovation Ecosystems: Creating the Collaborations Session Chair Professor Iain Martin, Vice-Chancellor Deakin University Panellists Murray Height (HeiQ); Alessandra Sutti (Deakin University); Matt Dingle (Form Flow); David Doral (Quickstep); Vicki Tutungi (Capricorn Power) Panel Discussion <i>Why are industry and research engagements so critical for advanced manufacturing?</i> <i>Companies creating and sustaining these connections for the long-term.</i> <i>What does it take to bridge the divide, to align interests?</i> <i>How companies are delivering new technologies to market through deep industry-research engagement.</i>

<p>12.15 p.m.</p>	<p>Enabling Technologies: Activating new materials and processes for reshoring manufacturing</p> <p>Session Chair Roxie Bennett, <i>Scale Facilitation</i></p> <p>Panellists Raj Vasa (A²I²); Peter Meikle (UMS); Scott Barnett (A²I²)</p> <p>Panel Discussion <i>A close look at what Covid taught us. How vulnerable is Australia to supply chain disruptions?</i></p> <p><i>We will look at emerging industry enablers including how virtual reality, augmented reality and artificial intelligence are taking Australian research and innovation to the world.</i></p> <p><i>How will Industry 4.0 and new technology opportunities support Australia's manufacturing competitiveness?</i></p>
<p>1.00 p.m.</p>	<p>Lunch & Networking</p>
<p>2.00 p.m.</p>	<p>Getting Tech & Innovation to Market: The Big Opportunities & Navigating the Early Stages</p> <p>Session Chair Matthew Fletcher, <i>KPMG</i></p> <p>Panel Speakers Kate Cornick, (<i>CEO LaunchVic</i>); Richard Farkashazy (<i>Hanwha</i>); James Mullins (<i>FLAIM</i>); Lyn George (<i>Austeng</i>); Ben Gust (<i>Virescent Ventures</i>)</p> <p>Panel Discussion <i>Getting it right from the start.</i></p> <p><i>Early-Stage Innovation Status, R&D Tax and Governance frameworks all matter.</i></p> <p><i>And entrepreneurs need investors! What are the big new market and tech opportunities attracting attention?</i></p> <p><i>How do big global companies help build the SMEs in our region?</i></p>
<p>3.00 p.m.</p>	<p>In Conversation: Manufacturing Lessons From a Company Walking the Walk</p> <p>Simon Dawson (<i>IMCRC</i>) speaks with Jake Dingle (<i>Carbon Revolution</i>) about Intelligent Manufacturing and lessons from a company walking the walk</p>
<p>3.30 p.m.</p>	<p>Manufacturing Growth Success Stories</p> <p>Session Chair Genevieve Reid, <i>Deakin University</i></p> <p>Panellists Jake Dingle (<i>Carbon Revolution</i>); Mark Burgess (<i>Quickstep</i>); Lee Finnear (<i>CEO, Li-S Energy</i>); Nick Jacometti (<i>Boomaroo Nurseries</i>); Rohan Stocker (<i>CEO Marand</i>)</p> <p>Discussion <i>When we talk about manufacturing growth and transformation, there is always a human story: who made it happen? How? Was it an individual, a partner, a skill set, a great customer, an opportunity?</i></p> <p><i>How did the investment happen? What made the difference and continues to drive success?</i></p> <p><i>What are the continuing challenges for our local manufacturers?</i></p>
<p>4.30 p.m.</p>	<p>End of Day & Networking (afternoon tea will be served)</p>



Scott Barnett

Senior Research Fellow, Machine Learning Architecture, A²I²

A member of the senior management team responsible for delivery of cyber-physical and complex software systems that embed machine learning. Leading and building the capability of a team, providing high-level guidance on technical architecture and client engagement. Scott is also a Chief Investigator for the ARC Hub for Digital Enhanced Living.



Roxie Bennett

Director, Author, Radio Personality

Roxie Bennett combines her high-powered roles as Director, Strategic Relationships and Advisory Board member with global innovation company, Scale Facilitation™, with that of co-hosting the Bay 93.9 drive time show, The Catch Up. She's a high-level communicator and relationship builder who loves evoking emotion with all she does and doing it with authenticity which saw her successfully running her own boutique PR, events and marketing agency, Plan.it Roxie for more than a decade before joining her then clients, Scale Facilitation™, permanently. Roxie is also an author, releasing her wellbeing and weight loss book, The Butterfly Plan in 2020.



Mark Burgess

CEO & Managing Director, Quickstep

Mark had a long international career before moving to lead Sydney composites manufacturer, Quickstep, in 2017. With more than 20 years' experience in the global aerospace and defence industry, Mark has held leadership positions throughout Europe, North America, the Middle East and Asia. Prior to joining Honeywell in 2013 as Vice President Asia Pacific, Mark began his career with BAE, working across sales, contracts project and general management. Quickstep also has an R&D base in Geelong.



Kate Cornick

CEO, LaunchVic

Kate is passionate about the role of innovation in our economy and has considerable experience in technology innovation across start-ups, academia, corporates and government. She previously held positions at the University of Melbourne including Director of Industry Engagement and Innovation, and Executive Director of the Institute for a Broadband-Enabled Society. Kate also co-led the establishment the Centre for Energy-Efficient Telecommunications – a joint venture between the University of Melbourne, the State Government and global telecommunications giant Alcatel-Lucent.



Shaun Cumming

General Manager Infrastructure & Technology, Barwon Water

Over a 20-career in the water industry, Shaun has worked across the public and private sectors. He has extensive experience in strategy, operations, construction, business development and large-scale project delivery. Shaun spear-headed a private sector partnership and oversaw the largest capital investment program in Barwon Water's history. Shaun holds a Bachelor of Science, Bachelor of Engineering and Master of Business Administration. He is a Graduate of the Australian Institute of Company Directors.



Simon Dawson

IMCRC Director, Industrial Transformation

Simon is an experienced manufacturing operations executive who has worked across a range of different industry sectors including fast-moving consumer goods, industrial, automotive, rail and medical devices. He brings a wealth of experience to the delivery of organizational growth and operational performance improvement. Prior to joining the IMCRC, Simon led the establishment of Walkinshaw Automotive's new facility in Victoria. He now supports manufacturers on their path into Industry 4.0 through the IMCRC's proprietary business diagnostic, futuremap®.



Jake Dingle

CEO, Carbon Revolution

Jake has led carbon-fibre wheelmaker Carbon Revolution from a small start-up to an international market leader aiming to revolutionise the automotive industry. The company manufactures carbon-fibre wheels for some of the world's most prestigious car brands. Carbon Revolution is developing highly sophisticated automated manufacturing processes at its Waurn Ponds factory. In leading the company since 2012, Jake has drawn on a background spanning engineering, management consulting, operations and strategy.



Matt Dingle

MD, FormFlow

Matt is a leader of innovation in building technology. His growing Geelong business, FormFlow, has developed a world-first process that enables sharp bends to be created in corrugated iron. The bend technology revolutionizes the design and construction industry by delivering smooth transitions between corrugated sheet section at a range of angles. FormFlow is using the technology to develop new building products, systems and solutions to address housing affordability, accessibility and sustainability.



David Doral

Executive General Manager, Engineering & Technology, Quickstep

David has been actively involved in the aerospace industry since the mid-1990s. He started his career with Aernnova's composites division in Spain and spent several years working as a senior aerostructures engineer between Boeing (Seattle and Sydney) and Airbus (Madrid and Ankara). During this time, he participated in the development of the most relevant aircraft programs launched at the time, including the Airbus A380, Boeing 777-300ER, Airbus A400M and Embraer E170.



Paul Ebert

Group Director Energy Transition, Worley

As Group Director Energy Transition, Paul is involved in guidance around strategy and response to the business as this transition unfolds, development of related capability and support of teams working with key customers. Paul has spent much of his career developing and delivering lower emissions technology-based projects. These have included the application of renewables and their enabling technologies and his experience has centred on integration of such into grids and markets, but also hybrids with fossil fuels and energy storage technology, and the integration of these into heavy industry.



Richard Farkashazy

Director Of Programs & Engineering, Hanwha Defence Australia

Richard is currently the Director of Programs and Engineering for Hanwha Defence Australia and is responsible for the delivery of all Australian programs and the technical solutions and engineering that support them. Richard has over 25 years experience in Australian defence industry and has worked for domestic and global defence organisations including Wolfhouse Engineering, Northrop Grumman Australia, Marand & Thales.



Lee Finniear

CEO, Li-S Energy

Lee has more than 25 years' experience as a senior executive, including 10 years with Intergraph Corporation, (a US-based Fortune 1000 technology company) in roles including Vice President - Asia Pacific, plus 5 years as the CEO and Managing Director of NASDAQ and ASX listed technology company, Metal Storm Limited. Over the past 5 years, Lee has been the founder and director of a company delivering innovative Internet of Things (IoT) products to business and consumer markets. He was also the Vice President - Asia Pacific for a European telecommunications operator with a market focus on automotive manufacturers and enterprise IoT solutions.



Matthew Fletcher

Associate Director, Geelong, KPMG

Matthew is part of the KPMG Accelerating Business Growth team specialising in grants, funding and innovation services. Matthew previously worked in grants administration in the Federal Government, in a boutique grants consultancy and in Federal Politics as a Senior Advisor. He was the founding President of Entrepreneurs Geelong, founder of the Geelong Entrepreneurial Ecosystem Mapping Project (GEEMap) and is a graduate of the Leaders for Geelong program.



Lyn George

Chair, Geelong Manufacturing Council

Lyn is the co-owner and corporate director of Austeng, a boutique engineering business that specialises in the design, engineering and development of customised equipment for industry. Lyn has been instrumental in re-structuring and re-positioning Austeng's focus from very much reliant on the automotive industry to operating in several new sectors and working with start-up companies and leading universities. Lyn is also an adviser to a number of start-up companies.



Ben Gust

Managing Partner, Virescent Ventures

Ben has almost 20 years' experience in venture capital, including as Managing Director of GBS Venture Partners, one of Australia's leading life-science venture capital firms, before moving to climate technology venture capital as Executive Director of the Clean Energy Finance Corporation's \$200m Innovation Fund in 2018. He has invested in and held numerous board roles with Australian and US based companies such as Hatchtech, Spinifex and Ivantis. Ben holds a legal practicing certificate and degrees in Science and Finance. Ben currently leads investments in JET Charge, SunMan, OmniTanker and GreenSync.



Murray Height

CEO, HeiQ Australia

Murray is a co-founder and the chief science officer of HeiQ, a world leader in textile innovation creating some of the most effective, durable and high-performance textile technologies in the market. Headquartered in Switzerland and listed on the London Stock Exchange, HeiQ has subsidiaries in Australia, China, Portugal, Taiwan and the US. The company excels in the R&D field, where it tends to be significantly faster and more lateral than peers as it works with six tech platforms to foster innovation.



Thys Heyns

GMC, Deputy Chair

Thys has 35 years' experience in the oil and gas industry, most recently with Viva Energy as Chief Operating Officer. Prior to joining Viva Energy in February 2015, Thys was with BP for 28 years in an international career across four continents that covered Supply Chain, Oil Trading and Refining.



Robert Hill

Chair, Viva Energy

Robert is a former barrister and solicitor who specialised in corporate and taxation law and who now consults in the area of international political risk. Viva Energy has a vision to develop the site of the Geelong Refinery into an energy hub featuring a gas import terminal, solar farm, hydrogen development and other alternative fuel sources. Robert was previously Australia's Minister for Defence, Minister for the Environment and Leader of the Government in the Senate during his time as a Senator for South Australia. He served as Australia's Ambassador and Permanent Representative to the United Nations in New York.



Nick Jacometti
Director, Boomaroo Nurseries

Nick is Director of the award-winning Boomaroo Nurseries, one of Australia's largest vegetable seedling suppliers, renowned for its premium-quality commercial seedlings, greenlife products, customer service and innovative approach to horticultural production. The family-owned business has facilities in both Lara, near Geelong, and Southbrook in Queensland. Its state-of-the-art operations include 20 hectares of specialised growing areas and automated handling systems. Combined, the two facilities have the capability to produce up to 400 million vegetable seedlings annually across over 150 individual varieties and up to 2 million greenlife potted plants.



Professor Iain Martin
Vice-Chancellor, Deakin University

Since 2019, Iain has led Deakin University as its principal executive officer. The Vice-Chancellor plays a key role in cultivating and sustaining the university's relationship with its many external stakeholders. One of Australia's largest universities, Deakin continues to expand its community and industry connections through research excellence and global reach.



Peter Meikle
Interim CEO, Universal Motion Simulation

Joining UMS in October 2021, Peter's role is to lead UMS to achieve its vision of becoming internationally recognised as the leading supplier of the most innovative and realistic motion platforms for military ground vehicle simulation. Peter's previous experience includes CEO, Product Development Director, Strategic Marketing director, project manager, consultant and engineering roles across small and large technology based companies, technology commercialisation consulting and small high-tech manufacturers, including in highly regulated environments.



James Mullins
CTO, FLAIM Systems

James is the founding researcher of FLAIM Systems which develops world-leading multi-sensory immersive learning solutions for training in hazardous and emergency situations. As a third-generation firefighter, he was uniquely positioned to apply his deep knowledge of advanced engineering principles to solve the problem of increasing and improving training opportunities for firefighters through the development of a world first immersive technology virtual training solutions.



Lachlan Pfeiffer
Chief Business Development & Sustainability Officer, Viva Energy

Lachlan joined Viva Energy in 2014 and has held roles with the Group including as Executive General Manager, Legal and External Affairs and General Counsel. From 2018 to 2020, he also served as a Non-Executive Director of Viva Energy REIT (now Waypoint REIT). Prior to joining Viva Energy, Lachlan worked as a corporate lawyer for Skadden, Arps, Slate, Meagher and Flom (UK) LLP, based in London for seven years. Lachlan started his career in Melbourne working for Norton Rose Fulbright (Australia).



Genevieve Reid
Director Strategic Partnerships Industry & Government, Deakin University

Genevieve is highly experienced in developing and executing strategic and profitable growth partnerships for large complex B2B organizations, including strategic navigation across all levels of government relations and parliamentary engagement. She brings experience with SaaS businesses, Aconex-Oracle, Computershare and the Non-Profit sector. Genevieve provides visionary and strategic leadership in building research partnerships and new alliances, while maximising performance, impact, and revenue in the face of scale and complexity.



Thomas Schmitz

Head of Energy Markets, Equis

Thomas is a senior energy market and infrastructure executive with more than 20 years of experience in renewable energy, green hydrogen, energy commodities, financial services and derivatives trading and clearing. Infrastructure asset development company Equis is a leading renewable energy and waste infrastructure developer and operator, having developed over 200 renewable energy and waste infrastructure projects across the Asia-Pacific region. Equis has offices in Australia, Korea, Japan and Singapore.



Steven Skala

Chair, Clean Energy Finance Corporation

The Vice Chairman, Australia of Deutsche Bank, Steven has more than 35 years of experience in law, business and banking sectors. The Clean Energy Finance Corporation invests commercially to increase the flow of funds into renewable energy, energy efficiency and low emissions technologies. Created by the Australian government, the CEFC's mission is to accelerate Australia's transformation towards a more competitive economy in a carbon constrained world by acting as a catalyst to increase investment in emissions reduction.



Rohan Stocker

CEO, Marand

Rohan has been at the forefront of Marand's successful transition from Manufacturer to Innovator, and now works as CEO. Marand designs and manufactures special purpose equipment, tooling, automated production and maintenance systems for the automotive, aerospace, defence, renewable energy and rail industries. Rohan has overseen considerable growth of the Marand business both in Australia and in various export markets. This includes Marand's work as Australia's largest exporter on the F-35 Joint Strike Fighter programme for Lockheed Martin and BAE Systems.



Alessandra Sutti

Associate Professor, Institute for Frontier Materials

Alessandra leads a team focused on short polymer fibres, textiles research and microplastics. The team's mission is to bring greater "circularity" in the world of materials manufacturing, alongside industry. Her work brings together several fields of science, to support the development of novel fibre manufacturing technologies and of novel materials, with disparate applications such as performance textiles and biomedical devices.



Vicki Tutungi

Director, Capricorn Power

With over twenty years' experience as a board director, in both executive and non-executive positions, Vicki has held roles in both listed and unlisted entities. She has worked in a diverse range of technology based companies including medical device, sustainable energy, digital marketing and furniture design. Vicki currently sits on the board of Capricorn Power a company that has developed a unique energy from waste solution which is currently being constructed and tested in Geelong.



Professor Rajesh Vasa

Head of Translational Research & Development, A²I²

Rajesh specialises in building robust AI infused technology. He has a strong record as a technology leader with work spanning creating smart manufacturing processes, building intelligent homes for aged care, reducing traffic congestion, large scale complex simulations to support decision making, using gamification to improve dementia care, and improving patient health outcomes in clinical settings. Prof. Vasa brings over a decade of experience from technology industry across the world having held roles spanning engineering and executive leadership. The research lead concepts he developed resulted in spinouts of four companies (in 2017-2021).

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