In August, NICTA delivered a TECH Showcase in Melbourne with a twist. For the first time, NICTA joined Australia’s peak digital economy representative bodies – the Australian Information Industry Association (AIIA), the Australian Computer Society (ACS) and the Pearcey Foundation – to showcase technological innovations for Australian industry.

The technology showcase, held alongside the Australia 3.0 Forum and the National iAwards, demonstrated research and technology which is driving innovation and creating wealth for the Australian economy.

The event was officially opened by The Hon. Paul Fletcher, Parliamentary Secretary to the Minister for Communications, who spoke of how NICTA is transforming the productivity and processes of existing industries, creating new businesses and developing the skills of tomorrow’s leaders with its digital careers and PhD support programs.

Five hundred attendees from across industry, government and academia explored demos from 23 NICTA projects. These included NICTA's National Map, a website for map-based access to Australian open spatial data from a wide range of Government agencies, developed by NICTA for the Commonwealth Government’s Department of Communications.

Other demos included WebRTC Virtual Counter, a browser-based system that delivers health, education and government services over broadband at a fraction of the cost of traditional video-conferencing systems by using the emerging WebRTC standard, and Hubcare, an SME which...
As the end of the year approaches, I would like to note some outstanding achievements in research excellence and wealth creation.

In August, we delivered a lively and exciting TECH Showcase in Melbourne – lining up with the Australian Information Industry Association (AIIA), the Australian Computer Society (ACS) and the Pearcey Foundation for the first time, to showcase technological innovations for Australian industry. As part of the event, we delivered a highly successful infrastructure hack.

This capped off a strong quarter in Melbourne, with a new NICTA software innovation lab opening its doors in Swinburne University. You can read all about the NICTA Swinburne Software Innovation Lab in our front page story. We also appointed a director for our Victoria Lab, Professor Jack Singh, previously of La Trobe University. I look forward to working with Jack as he continues to build NICTA’s presence in Victoria.

Our start-up pipeline continues to gain strength. We recently spun out a new data analytics company, keeping NICTA on track with a rate of one start-up every three months. Congratulations to all concerned.

One of the most exciting developments of the last few months has been the launch and ongoing development of the National Map, which opens the door on masses of previously unavailable data in an interactive, web-based portal that was developed by NICTA’s Engineering and Technology Development Group for the Commonwealth Department of Communications. I can’t speak highly enough of this important demonstration of the power of open data. Take a look at this evolving platform at http://nationalmap.nicta.com.au.

Finally, I had the pleasure of hosting the opening of NICTA Queensland, a new lab in Brisbane that will be focusing on industry engagement. Already the Director of NICTA Queensland, Simon Kaplan, has some exciting projects on the boil that will directly benefit industry and government in Queensland. I look forward to the growth of this dynamic group.

Hugh Durrant-Whyte
NICTA CEO

Congratulations to NICTA Board Member, Professor Mary O’Kane, who was awarded the 2014 Pearcey Medal for distinguished lifetime achievement in the ICT industry.

The Pearcey Medal is Australia’s most prestigious national annual award made to an individual in the Australian ICT industry. It provides recognition to someone who has demonstrated a distinguished lifetime of achievement and contribution to the development and growth of the ICT professions, research and industry.

Professor O’Kane is an eminent scientist, engineer, educator, company director, and Executive Chair of Mary O’Kane and Associates Pty Ltd. From 1996 to 2001, she was Vice-Chancellor of The University of Adelaide and was appointed NSW Chief Scientist and Engineer in 2008.

“Mary’s contribution to science and technology in Australia has been outstanding and we are proud to see her recognised by the Australian Information Industry Association (AIIA), the Australian Computer Society and the Pearcey Foundation at this year’s iAwards,” said Prof Hugh Durrant-Whyte, NICTA’s Chief Executive Officer.
Industry R&D expert
Prof. Jack Singh to head NICTA Victoria

Prof. Jack Singh has been appointed as Director, NICTA Victoria, to drive industry engagement. Prof. Singh joins NICTA from La Trobe University where he has been Director of the Centre for Technology Infusion, which focuses on strategic and translational research related to ICT.

“Professor Singh exemplifies the unique NICTA model, which brings together world-class researchers with industry and government to solve important problems and create national wealth,” said Hugh Durrant-Whyte, CEO, NICTA.

Prof. Singh said “I am thrilled to be part of NICTA Victoria. This role offers tremendous opportunities to solve some of the big challenges facing Australia, due to the scale, scope and excellence of NICTA’s research and its rigorous focus on real-world problems.”

Prof. Singh has an outstanding track record of leading large-scale, collaborative industry research projects, particularly in the area of transport, one of NICTA’s focus areas in Victoria. He has led R&D projects across Cooperative Intelligent Transport Systems, Smart Food Packaging, Energy Management and Smart Grid Systems, Smart Sensors for health care and Radio Telescope SKA project. He is also a member of the United Nations Economic Commission for Europe’s Transport Expert Group.

Lights, demos, action – cut to Melbourne TECH Showcase 2014 cont.

has linked with NICTA to maintain the introduction of leading edge technology to the delivery of childcare services.

Day one had an education focus with 200 primary and secondary school students attending. They had the opportunity to test drive NICTA’s simulator of technology for motor vehicles that shows how a driver’s emotional state can affect their driving ability and adapts accordingly to the mental state of drivers. They also sampled the fantastic ‘doarama’ technology, a web 3D visualisation engine which allows users to upload GPS track logs of activities they have participated in (from a smartphone or sports GPS tracker) to doarama.com. With Oculus Rift goggles strapped on, the students were able to take some very realistic journeys!

Dean Economou, NICTA’s Technology Strategist, led the infrastructure InfraHack that was part of the Australia 3.0 program. Attracting 150 registrations, the hack tackled important problems like congestion and transport safety by re-imagining how we use our infrastructure.

The winner was BetterWay, which built a ‘road load balancing’ tool to predict congestion on any road in the city. The tool readjusts traffic lights in real-time so that people are not left stuck in traffic for long periods of time. They received two return tickets to Silicon Valley with NICTA also providing specialised mentoring and introduction to our network of Silicon Valley VCs, relevant companies and Valley identities to accelerate the development of their idea.
Secure operating system developed by NICTA goes open-source

The NICTA-developed secure embedded L4 (seL4) microkernel and formal mathematical proofs have now been offered as open-source software. seL4 is the world’s most highly-assured operating system (OS) and the first OS kernel with an end-to-end proof of implementation correctness and security enforcement.

“seL4 takes software dependability to a new level, and will support the development of truly trustworthy systems,” said Gernot Heiser, Software Systems Research Group Leader at NICTA, and Scientia Professor and John Lions Chair, UNSW.

“What is being released today is not only the breakthrough proofs NICTA achieved in 2009, but a whole host of advanced work built on top of that in the last five years,” said Dr Gerwin Klein, Senior Principal Researcher and Leader of Formal Verification at NICTA. “This includes new, stronger security proofs, verification of not only the C code, but the binary of the kernel, and a large amount of support and example code that will enable developers to get started quickly. With the proof released, you don’t have to trust that the kernel was developed correctly - you can check the evidence yourself.”

For more information, and to gain access to the open source release of seL4, please visit: http://sel4.systems/.

NICTA start-up joins prestigious DHS-funded software assurance group

NICTA start-up company Red Lizard Software has joined the Software Assurance MarketPlace (SWAMP), a Department of Homeland Security-funded facility designed to reduce the cost and complexity of challenges involved in software assurance testing.

Red Lizard Software joined Veracode, Parasoft, and GrammaTech in the SWAMP, with existing SWAMP partner Secure Decision, to enhance the software security services offered by the SWAMP. The announcement broadens the SWAMP’s capabilities and addresses the growing realisation of the power of using multiple tools to create a comprehensive view of an application’s potential vulnerabilities.

Ralf Huuck, Co-founder of Red Lizard Software, also took part in a blue-ribbon panel hosted by the SWAMP at the AppSec USA 2014 software security conference held in Denver in September.

The panel focused on the urgent demand to develop more secure software and the impact that centralised software security testing and technology collaboration can have on the industry. Participants included senior representatives from the Department of Homeland Security Science (DHS) & Technology Directorate, Cybersecurity Division; Veracode, and the Chief Scientist of the SWAMP and Computer Science Professor at the University of Wisconsin-Madison, Bart Miller.

The DHS Science & Technology Directorate funds the SWAMP with $23.5 million to provide a no-cost, high performance computing platform to more easily enable the principles of continuous software assurance to be integrated into the software development life cycle (SDLC).

NICTA opens industry-focused lab in Queensland

NICTA has a new face in the Sunshine State, with a city-based lab focused on industry engagement. The premises were officially opened in September with an afternoon of demonstrations and addresses from leading research and business development experts, including Queensland’s Chief Scientist Dr Geoff Garrett. The new NICTA Queensland lab is based in Spring Hill, Brisbane.

Commenting on NICTA’s investment in Queensland, Simon Kaplan, Director, Skills and Industry Transformation said “NICTA has a significant presence in Queensland; however the opening of a laboratory focused on industry engagement shows our focus on driving wealth creation not only in this state, but for all Australians.”

“NICTA Queensland will continue to provide access to all of NICTA’s research and business development capabilities. However, we are also developing some unique capabilities in Queensland around social analytics and organisational development. These build on NICTA’s skillset in analytics and systems engineering, as well as our deep partnerships with Queensland’s universities.”

Queensland’s Chief Scientist Dr Geoff Garrett.
Glenn Downey
NICTA’s Man of the Match

Growing up on the family farm in western Victoria, NICTA’s Commercialisation Manager for the Broadband and Digital Economy (BaDE) Business Team, Glenn Downey, learned quickly about the elements and the impact that a few critical decisions can have on success. And success is something that he enjoys, whether it’s cheering on his beloved Geelong Cats on the sporting field, or seeing the BaDE Business Team kick some equally impressive goals.

Glenn’s interest in ICT was ignited at university when, as part of team who prepared an independent due diligence report for a spin-out, he experienced firsthand the host of issues – and opportunities – involved in taking innovative publicly funded research, development and service capabilities in ICT to transition them to a competitive marketing footing.

“ICT is such a fast changing, broad and impactful industry. We see every day that new challengers, with differentiation around their technology, business model, or marketing, can disrupt much larger, better resourced incumbents, improve ways of doing things and at the same time rewire wealth creation and distribution outcomes,” says Glenn.

It was NICTA’s unique talent pool, but more importantly the objectives of research excellence and wealth creation, that led Glenn to NICTA in 2007. Glenn’s current role at NICTA enables the link between NICTA’s fundamental research outputs and wealth creation opportunities. “For individual projects this can mean being involved in many very different ways. NICTA formally engages with industry, government and organisations via licensing of more mature technology and patents, via R&D Service agreements for more speculative research, consulting agreements for expert advice and services, the open sourcing of code, product and platform releases on a fee-for-service basis and via spinning out companies. NICTA’s shown our model of developing up spin-out ready groups has been pretty successful,” says Glenn.

Having been a founder/CEO of a spin-out himself, Glenn understands the venture capital process and successful exit cycle and it’s this useful knowledge and practices that he feeds back to NICTA’s project leaders.

“Being a business team we are more at the development and service delivery end rather than fundamental research. In the area of Big Data Analytics we’ve been at the forefront of the rapidly changing technology, such as scaleable cloud infrastructure, by drawing on NICTA’s research strengths in software systems, networking and machine learning, allied with a tremendous engineering capacity in agile development and functional programming strengths. This has allowed us the opportunity to work with some of Australia’s leading enterprises and organisations to uplift their capabilities, responsiveness and also assist a little in their innovation and cultural change initiatives,” says Glenn.

It’s the opportunities for intersecting across NICTA’s research themes to deal with emerging tough problems in areas such as security, privacy, and compliance to gain competitive advantage that Glenn believes provides NICTA a unique position.

And looking into the future, it’s the area of video, linked with workflow processes and analytics to increase productivity and accessibility – be it in services such as health, education and distributed work environments – that Glenn highlights as an area of importance.

“Just as the experts at the time underestimated the opportunity ahead for computers and mobile phones, I believe we are underestimating the use and uses of video. NICTA is making great strides in this area based on our involvement in WebRTC. On a different front we are using approaches borrowed from NICTA’s expertise in logic reasoning to address the massive ‘compliance burden’ issue faced by organisations of all types and sizes. We think we’re on to something big here.”

“NICTA’s been a grand experiment by government – by many governments over the years - and there are now more than enough signs that we are on the way to a uniquely Australian model of creating, delivering and, dare I say, even capturing value,” says Glenn.

Who would you love to have at a dinner party
(dead or alive) and why?

The Australian model of creating, delivering and, dare I say, even capturing value,” says Glenn.

Who do you consider to be the ultimate scientist
discovery?

Hopefully we haven’t had it yet. There’s still plenty of challenges facing the planet. With my two kids yet to finish high school and keen to live an Australian way-of-life, it would be pretty great if a NICTA ‘discovery’ generated a booming new industry, solved world peace and helped Geelong win another AFL grand final. Just saying.

Who inspires you and why?

Palliative carers, anyone living in Sydney with a mortgage, my wife, my kids.

What do you love about working in R&D?

The possibilities.

What would be your dream holiday and why?

I’m a fan of travelling to wine regions, and sampling the products. I get to three or four regions in Australia per year and maybe to one or two overseas every other year. I think I’m still to try 730 of the 750 different Italian wine varieties (some say 3,000!) so Italy seems a good place to start.

What is the biggest bonus you get from
working in R&D?

Who would you love to have at a dinner party
(dead or alive) and why?

Nick Cave would be fascinating (or a complete write-off); Brian Cook, the CEO of the Geelong Football Club, to learn what’s made a good football club great; James Halliday, to bring out the wine regions in Australia per year and maybe to one or two overseas every other year. I think I’m still to try 730 of the 750 different Italian wine varieties (some say 3,000!) so Italy seems a good place to start.

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""
The Federal Government has launched the National Map Open Data initiative, providing an open framework of geospatial data services that supports commercial and community innovation, for the benefit of all Australians and the Australian economy. The Map was developed by NICTA for the Commonwealth Department of Communications in collaboration with Geoscience Australia.

The Map is part of the Government’s commitment to increasing the number of publicly available datasets. The initiative gives users access to a single platform for Government geospatial datasets, including those from the Bureau of Meteorology, Australian Bureau of Statistics and data.gov.au, allowing a single map to include data from multiple agencies and across all levels of government.

Designed to be a fully open framework, the Map web front-end connects directly to data servers at each government agency using open protocols and open data formats.

Relying on the strong geospatial visualisation skills at NICTA, the software uses Cesium, an open source WebGL virtual globe and map engine, which NICTA is contributing to with an international community of developers. Bill Simpson-Young, NICTA’s Director of Engineering and Technology Development, and the driving force behind the technology that runs the Map, said “Putting government spatial data, which was previously difficult to access, into the hands of community, software developers and industry will act as a key enabler of innovation and boost to government and industry productivity.”

The National Map, currently at beta status, is available at http://nationalmap.nicta.com.au and will be available at an official government web address in the near future.
Congratulations Serge Gaspers - ARC Future Fellowship Award

Congratulations to Serge Gaspers, a UNSW contributed researcher to the ORG’s Algorithmic Decision Theory Project, who has just been awarded an ARC Future Fellowship.

ANU Poster prizes for PhD student Boon Ping Lim

Congratulations to ORG PhD student Boon Ping Lim who won Best Poster at the ANU Climate and Energy Research Student Expo Prize for her poster titled 'Integrating Occupancy Scheduling & HVAC Control'. Her poster was also awarded second place at the ANU College of Engineering & Computer Science HDR Poster Day 2014.

Appointment - Associate Editor, ACM

Anirban Mahanti, NRG Research Leader, has been appointed Associate Editor for the Association for Computing Machinery (ACM) Transactions on Modeling and Performance Evaluation of Computing Systems. ACM, the world’s largest educational and scientific computing society, delivers resources that advance computing as a science and a profession.

Max-SAT 2014 Winner - Nina Narodytska

Congratulations to Nina Narodytska, former ORG member, now NICTA visitor to SSSR and post doc at University of Toronto, whose EvaSolver was recognised as the best overall MaxSAT solver in the industrial category at the Ninth Evaluation of Max-SAT Solvers (Max-SAT-2014).

Her solver won first place in the Weighted Partial MaxSAT (industrial) category and third place in the categories of Partial MaxSAT (industrial) and MaxSAT (industrial) category.

2014 Artificial Intelligence Journal (AIJ) Prominent Paper Award – Scott Sanner

Well done to MLRG member Scott Sanner who recently received the 2014 AIJ prominent paper award for his paper, co-authored with Craig Boutilier, ‘Practical solution techniques for first-order MDPs’. This award recognises outstanding papers published not more than five years ago in the AIJ that are exceptional in their significance and impact. The paper was first published in the AIJ in 2009.

Second Heidelberg Laureate Forum selection for NRG’s Kanchana Thilakarathna

The Scientific Committee of the Heidelberg Laureate Forum Foundation (HLFF) has selected PhD student Kanchana Thilakarathna to participate in the Second Heidelberg Laureate Forum. Only the 200 most qualified young researchers are given the opportunity to enrich and share the unique atmosphere of the Heidelberg Laureate Forum. The Heidelberg Laureate Forum is a one week event combining scientific, social and outreach activities that brings together winners of the Abel Prize and Fields Medal (mathematics), as well as the Turing Award and Nevanlinna Prize (computer science).

International Conference on Logic Programming (ICLP) Test of Time Awards

ORG Research Group Leader Pascal Van Hentenryck’s co-authored 1994 paper ‘CLP (Intervals) Revisited’ was awarded the ‘Test of Time Award’ (20 years) by the ICLP program committee. This paper was selected from all ICLP and ILPS (International Symposium on Logic Programming) papers from 1994 as the one with the highest impact.

ORG Research Leader Peter Stuckey has also been recognised with the ICLP 10-year Test of Time award (10 years) for the co-authored paper, ‘The Refined Operational Semantics of Constraint Handling Rules’. This paper was selected from all ICLP and ILPS (International Symposium on Logic Programming) papers from 2004 as the one with the highest impact.

Kim Marriott’s paper wins Most Influential Paper Award (last 20 years)

ORG Research Leader Kim Marriott was recognised with the IEEE VL/HCC (Visual Languages and Human-Centric Computing) Most Influential Paper Award for his 1994 paper ‘Constraint Multiset Grammars’.

Manuel Cebrian’s crowdsourcing paper in the news

ORG Research Leader Manuel Cebrian’s paper ‘Crowdsourcing contest dilemma’ (with co-authors V. Naroditskiy, N. Jennings and P. Van Hentenryck) published in the Journal of The Royal Society Interface, received extensive news coverage in the following media: Social Physics Blog, The Australian, ABC Radio, Quartz, LifeHacker, The Conversation, University of Southampton.

The paper argues that the fundamental trade-off between the potential for increased productivity and the possibility of being set back by malicious behaviour.

ORG wins Best Paper Award at PAIS

The paper ‘NICTA Evacuation Planner: Actionable Evacuation Plans with Contraints’ by ORG members Caroline Even, Victor Pillac and Pascal Van Hentenryck, received the best paper award at the Prestigious Applications of Intelligent Systems Conference (PAIS’14) in Prague. The NICTA Evacuation Planning Project provides emergency services with tools to plan and schedule large-scale evacuations. It can plan and simulate the evacuation of 80,000 people in a couple of minutes, enabling better planning and response capabilities.

Candy Crush featured again

ORG Research Leader Toby Walsh’s article ‘Cracking the Code: The Puzzling Nature of Candy Crush’ was featured in American Scientist highlighting why Candy Crush is so addictive, having to do with it being a mathematically hard puzzle to solve.

Engineers Australia Top 100

Congratulations to Hugh Durrant-Whyte, SSSR Leader Gernot Heiser, and NICTA Board members Mary O’Kane and Peter Lee for making Australia’s Top 100 Most Influential Engineers of 2014.

First Place at SyntComp (Synthesis Competition) 2014 – SSSR’s Adam Walker and Leonid Ryzhyk

Congratulations to SSSR PhD Student Adam Walker and his supervisor SSSR Researcher Leonid Ryzhyk, whose game solver won first place in the Realisability Sequential track of SyntComp 2014. The competition’s goal is to collect benchmarks and, most importantly, foster research in new tools for automatic synthesis of systems.

IFL Team 2014 NSW iAward Winners

NICTA’s Intelligent Fleet Logistics team, represented by Andrew Purchas and Phil Kilby, won the NSW State iAwards Industrial Category. This is the latest honour for the team whose unique optimisation technology, designed to help transport and logistics companies maximise profits, is receiving increasing industry attention. The iAwards honours Australia’s finest ICT innovators, entrepreneurs and professionals.

Noteworthy Publications

In collaboration with Inria, University College London and the University of Michigan, NICTA’s NRG team recently had two papers accepted to ACM 2014, one of the most prestigious conferences in networked systems.

The first paper reveals the censorship capabilities of the Syrian government and provides the first analytical look into internet filtering in Syria. The second paper uncovers the ‘likes’ fraud activity in Facebook and identifies two different modi operandi of the malicious likes farms.

The paper ‘Censorship in the Wild: Analyzing Web Filtering in Syria’ was also picked up by MIT Tech Review and other media worldwide.

NRC’s Dali Kaafar’s paper, ‘Trace-Driven Analysis of ICN Caching Algorithms on Video-on-Demand Paths’, written in collaboration with CAS and IBM Research has been accepted to IEEE ICNP, October 2014, Raleigh, ICNP – International Conference on Network Protocols - is a highly competitive venue in Networking research with less than 20% acceptance rates.


SSSR’s Adam Walker and Leonid Ryzhyk, along with co-authors, have had their paper ‘User-Guided Device Driver Synthesis’ accepted at Usenix Symposium on Operating Systems Design and Implementation 2014 (OSDI), one of the most competitive and prestigious conferences in computer science.

KEY:

SSRG – Software Systems Research Group
MLRG – Machine Learning Research Group
ORG – Optimisation Research Group
NRC – Network Research Group
CVRG – Computer Vision Research Group
NICTA in the NEWS

The Sydney Morning Herald spoke with Dr Ric Simes, former Treasury and prime ministerial adviser, now of Deloitte Access Economics, about the potential for technology to make some of the largest improvements in Australian lives in government-heavy sectors including health, education and transport and his belief that progress in these areas has been too gradual. He highlighted the work NICTA is doing on optical-based monitoring and improved optimisation algorithms. http://bit.ly/1tpeycV

The Business Spectator highlighted NICTA’s project with Sydney Water that enables the organisation to make better decisions about how it maintains and upgrades more than 80,000 kilometres of drinking and waste water pipes. Sydney Water’s manager for research direction and value, Michael Storey, describes the project as transformational, “We have really seen the benefits of working with people such as NICTA. With advanced analytics we have much more power to understand and interpret our data, and that’s the real game changer.” http://bit.ly/10Wc5DR

Channel Seven News, Sydney, spoke with NICTA’s Gernot Heiser and Hugh Durrant-Whyte about NICTA’s project with the US Defence Department seeking to protect electronic devices from cyber attack.

The Australian looked at how crowd-sourced research projects inevitably attract sabotage, and managers should judge whether to use citizen science on a case-by-case basis. NICTA Research Leader Manuel Cebrian, who co-authored the findings that were published in the Journal of the Royal Society Interface, said “The take-home message is that sabotage is here to stay in citizen science. When you design a system you should first decide whether you have enough technology, manpower or verification energy to deal with sabotage. If you don’t, maybe you shouldn’t do it.” http://bit.ly/1v1Fp0n

Andrew Purchas spoke with Australasian Transport News regarding NICTA’s ‘Cost to Serve’ supply chain management solution. “There are two components. One, we’re accurately allocating distribution and transport costs on a per customer basis. Secondly, and more importantly, our tool then optimises that customer base and how you service them on the basis of profitability. Companies bank profits, they don’t bank reduced costs.”

The Australian looked at how NICTA researchers are investigating virtual reality applications by latching the Oculus Rift to a publicly available web application NICTA has developed called Doarama (www.doarama.com) which lets you upload movement tracks generated by GPS devices and watch them play out in a 3D mapped diorama. http://bit.ly/1C7VcL5

Stop Press

Gernot Heiser, NICTA Software Systems Research Group Leader and Scientia Professor and John Lions Chair, UNSW, has been awarded Engineers Australia Entrepreneur of the Year at the Sydney Engineering Excellence Awards (SEEA 2014). The Sydney Engineering Excellence Awards (SEEA 2014) are the preeminent program that recognises the contribution engineers make to community through their innovations, teamwork, ingenuity and creativity.

The award program provides an opportunity to encourage excellence through the identification and promotion, both within the profession and the community at large, for outstanding achievements in the advancement of science and practice of engineering.

NICTA News

Tech23
NICTA is proud to be a major sponsor of this year’s Tech23. With a panel of industry leaders and an audience of over 400 potential investors, partners and customers, it’s an event not to be missed.

When: Thursday, 23 October
Time: 9.00am – 5.00pm
Venue: The Auditorium, NSW Teachers Federation Conference Centre
37 Reservoir Street, Surry Hills NSW 2010

To register: http://www.tech23.com.au

For more information on all of NICTA’s events please visit: www.nicta.com.au/events

Digital Canberra Challenge - Awards Event
A NICTA eGov Cluster and ACT Government event connecting start-ups, the community and government in Canberra. ACT Deputy Chief Minister Andrew Barr will announce the Winner of Round #2 of the Digital Canberra Challenge competition and launch Round #3.

The Digital Canberra Challenge is an ACT Government initiative to engage Canberra’s brightest minds to help build and support a dynamic, healthy and prosperous Digital City for the 21st century.

When: Wednesday, 15 October
Time: 4.00pm – 6.30pm
Venue: NICTA Seminar Room, Ground Floor, 7 London Circuit, Canberra
RSVP by Monday, 13 October.
To register: http://bit.ly/10hdtO

G2O Queensland Trade & Investment Summit
NICTA is a proud sponsor of the G2O Queensland Trade & Investment Summit, Queensland’s foremost business summit in the lead up to the G20 which brings together national and international business leaders, giving attendees access to world trade, investment and global business expertise.

When: Wednesday, 15 October
Time: 9.00am – 5.30pm
Venue: Sky Room, Brisbane Convention and Exhibition Centre, Merivale St, South Brisbane
To register: http://bit.ly/1tQMa0L

‘Perfect Match’ NICTA @ Melbourne Knowledge Week
Perfect Match looks at the secrets to success for collaborations between research institutions and industry partners. Real life industry and researcher ‘couples’ will be interviewed on stage about the big questions in their relationship: how did they meet, what attracted them to each other and how do you make a relationship go the distance?

When: Wednesday, 29 October
Time: 7.30am – 9.00am
Venue: The Wheeler Centre Performance Space
176 Little Lonsdale Street, Melbourne
RSVP by Wednesday, 22 October.
To register: https://perfectmatchmelbourne.eventbrite.com.au

Register Now and SAVE $100 with promo code: nicta100