



UNSW
Allens Hub
for technology, law & innovation

ANNUAL REPORT

**UNSW Allens Hub for Technology, Law and
Innovation**

For the period 1 January 2022 to 31 December 2022



UNSW
SYDNEY



Contents

FOR THE PERIOD 1 JANUARY 2021 – 31 DECEMBER 2021	1
About the UNSW Allens Hub	3
Director's Reports	3
Lyria Bennett Moses – the Allens Hub	3
Michael Legg – the FLIP Stream	4
Our People during 2022	5
Hub and Flip Stream staff	5
Advisory Board	6
Steering Committee	6
Affiliated Researchers	6
2022 Achievements	9
2022 Achievements	12
Challenges	12
Research Streams	13
Events	14
Hub Communications	19
Publications	20
AI Decision Making and Law	20
Challenges for a cyber-physical world	21
Cooperative Platform Economies and Regenerative Cities	22
Cyber Trust Project: Trust and Trustworthiness in Cyber Security	22
Data Justice Research Network	23
Fintech	24
GreenTech	26
Hybrid Life and Legal Personhood	26
Right to Repair	27
Technologies of Legislation	28
Miscellaneous	28
Hub member grants	30
Hub Submissions 2022 (including joint submissions)	30
Financial Management Report	33
Appendix	34
Steering committee 2022	34
Advisory board 2022	34
FLIP Stream Publications and Presentations List	35

About the UNSW Allens Hub

The UNSW Allens Hub for Technology, Law and Innovation is an independent community of scholars based at UNSW Sydney. As a partnership between [Allens](#) and [UNSW Law](#), the Hub adds breadth and depth to research on the diverse interactions among technological change, law, and legal practice. The partnership enriches academic and policy debates and drives considered reform of law and practice through engagement with the legal profession, the judiciary, industry, government, and the broader community.

The Hub aims to be a global leader in solving legal problems and communicating solutions and ideas arising from technological innovation. It is a collaborative base for researchers across multiple disciplines and people across multiple sectors to engage with questions arising from technological change and innovation. The Hub seeks to be forward-looking, developing creative, well researched solutions to emerging – and yet to emerge – problems. It is developing a prominent national and international profile through its members who are active in academic, government, industry and public debates about regulatory and policy change in these areas.

New technology poses challenges which cannot be resolved solely by legal scholarship focused on particular technological contexts repeated across each field of disruption. We need to understand the challenges through a broader historical, legal and policy frame with close attention to developments in other jurisdictions and genuine cross-disciplinarity. This requires a strong culture of collaboration to build flexible and resilient legal and regulatory systems that accommodate ongoing change and encourage appropriate innovation while providing appropriate governance and oversight and promoting equality and inclusiveness.

The Hub originally secured three years of funding from Allens, and FLIP Stream (operating within the Hub) secured five years of funding from the Law Society of NSW. Despite delay in renewing Allens sponsorship at the early stages of the COVID-19 pandemic, we were able to secure an additional three years of sponsorship commencing June 2021. We look forward to continuing collaboration with Allens as we work together to enhance legal and policy discussions at the technological frontier.

This Annual Report covers the fifth full calendar year of the Hub's operations.

The UNSW Allens Hub benefits from a Steering Committee and Advisory Board and is grateful to members of each, listed in the Appendix.

Director's Reports

Lyria Bennett Moses – the Allens Hub

After a few years of COVID-19 lockdowns, 2022 was a great year to reconnect. The Hub room in UNSW Law & Justice once again became a hive of activity. We experimented with a range of event formats, from fully online through hybrid to in person, and a range of platforms. Our Hub Lecture, featuring the wonderful Professor Genevieve Bell was a fabulous example of what can be done live – audience connection and engagement followed by lively conversation. The Challenges for a Cyber-Physical World interdisciplinary seminar series, led by Senior Hub Fellow and stream lead Dr Kayleen Manwaring, is an example of the reach that can be achieved online. Our policy engagements with government were a combination of different modalities (written submissions, in person meetings, online roundtables), but all productive explorations of options onto which our research can shed light. A full list of our events is on pages 14-18.

We congratulate all Hub members who were successful in securing grant funding from a range of diverse sources for important research. This year we were very successful in securing high value research contracts with government. We also continued our productive collaboration with the Cyber Security Co-operative

Research Centre, through new and ongoing grants. Monika Zalnieriute also continued her work with the ARC Centre of Excellence on ‘Automated Decision-Making and Society’ and her DECRA fellowship.

We continue to welcome all researchers, in the Faculty of Law and Justice and throughout the university, with interests at the intersection of technology, law and innovation. There are currently 49 researchers and higher degree research candidates in the Hub, working to varying extents on Hub-related projects. Their Hub-related publications are listed from pages 20-30.

Most of the Hub’s activities take place through our streams funding program, which explore a diverse range of issues. This year, we focussed on 9 funded streams (plus one unfunded stream), representing a diverse range of topics. Our new streams for this year were Challenges for a Cyber-Physical World (led by Dr Kayleen Manwaring), the Cyber Trust Project (led by Dr Susanne Lloyd-Jones), Right to Repair (led by Professor Matthew Kearnes, and Technologies of Legislation (led by A/Professor Lisa Crawford – now Professor at the University of Sydney). The Greentech stream produced its final report [\[link\]](#), which I strongly recommend to anyone wanting to understand the imperfect alignment between law, innovation and emissions reduction. Each Hub research stream has a Stream Leader who is responsible for the budget allocated to that stream (where relevant) and the activities of the Stream.

These Hub research streams exist in addition to the FLIP Stream, which was funded by the Law Society of New South Wales under the leadership of Professor Michael Legg (Director) and Dr Justine Rogers (Deputy Director). This year, FLIP Stream wrapped up 5 years of work, captured in the Appendix to this annual report. It is an important body of work – we are proud to have been FLIP Stream’s home for the duration and promise to preserve and build from its legacy in the years to come.

Thank you to our members who inspire me with their research and energy, our steering committee for their careful guidance, our advisory board for their ideas, our Senior Hub Fellow (Dr Kayleen Manwaring), sponsored scholar (Dr Katharine Kemp) and stream leads for their leadership, our collaborators and facilitators across the university and beyond, and our Hub Administrator (Ms Katrina Brookland and then Ms Amy Gardner) for making everything happen.

Michael Legg – the FLIP Stream

The Future of Law and Innovation in the Profession Research Stream (FLIP stream) was created in November 2017 with the entry into a five year collaboration agreement between UNSW and the Law Society of New South Wales. The collaboration agreement and FLIP stream concluded at the end of 2022.

The FLIP Stream research team was comprised of Director Michael Legg, Deputy Director Justine Rogers, Marina Nehme and Research Fellows Tony Song, Felicity Bell and Suzana Nashkova. The research team also included a number of research assistants and interns.

Research in the FLIP stream addresses the impact of technology and innovation on the legal profession. The research is organised around an annual topic and a number of smaller or longer-term research projects and responses to law reform and government inquiries.

In 2018 the annual topic was “Artificial Intelligence and the Legal Profession”. In 2019 the annual topic focused on “Change leadership for lawyers”. In 2020 the annual topic was “The Sustainability of Law and Lawyers”, with a focus on: technology and dispute resolution, legal design and lawyer fee arrangements. In 2021 the annual topic was “The Future of the Legal Service Delivery – Sources of Innovation in the Legal Profession”.

The annual topic for 2022 was: “Lawyers, Clients and Colleagues: Trust and Relationships in an Online World”. The research focussed on the centrality of trust within the legal profession, and how a move to online or hybrid environments impacted the ability of lawyers to cultivate trusted relationships and to maintain their

professional ethical obligations. Where previously, lawyers could rely on face-to-face communication, physical interaction, and co-location to build trust, virtual legal practice instead required lawyers to rely on technology to sustain the same high-quality relationships of trust with clients, colleagues and courtrooms. Drawing from research in the fields of organisational management, social psychology and philosophy, as well as industry reports, FLIP stream's research provided the necessary context and practical guidance to navigate a brave new online legal world.

Each of the annual topics resulted in a primer which is available from the Law Society of NSW.

2022 also saw a range of publications addressing issues such as how legal service delivery by non-lawyers may be regulated, survey responses from the Australian Federal Courts in relation to their experience with online hearings, in-house counsel's use of artificial intelligence and legal liability for the drone freight industry. FLIP stream also collaborated with the Allens Hub to produce *AI Decision-Making and the Courts: A Guide for Judges, Tribunal Members and Court Administrators* (The Australasian Institute of Judicial Administration Inc., Report, June 2022).

FLIP stream members engaged with the profession through presenting on a diverse range of topics, including leadership for lawyers, client relationships, the metaverse, cryptocurrency, electronic discovery and online dispute resolution.

A full list of FLIP stream's publications and presentations is provided below. See pages 35 – 42.

Our People during 2022

Hub and Flip Stream staff

- Professor Lyria Bennett Moses, Hub Director
- Professor Michael Legg, Director of FLIP Stream
- Dr Justine Rogers, Deputy Director of FLIP Stream
- Dr Kayleen Manwaring, Senior Hub Fellow
- Ms Amy Gardner, Administrator (0.6 FTE)
- Dr Susanne Lloyd-Jones, Cyber Security CRC Research Fellow
- Mr Tony Song, FLIP Stream Research Fellow
- Dr Felicity Bell, FLIP Stream Research Fellow
- In 2022 the Hub supervised 4 interns: Briony Pearson in T1; Bianca Tolic and Seena Sarram in T2; and Ryan Blakley in T3. Hub interns were supervised by Senior Hub Fellow Kayleen Manwaring and Director Lyria Bennett Moses, working as well with other Hub members on specific projects, including facial recognition technology, cyber security, critical infrastructure, right to repair, the use of technology to generate legal advice, commercial dark patterns, blockchain, legal challenges for a cyber-physical world, and qualitative research methodologies.
- In 2022, the FLIP Stream supervised no interns of their own. However, during T2, Hub intern Seena Sarram was supervised by Hub Director Justine Rogers and FLIP Stream Research Fellow Tony Song on an article for the Law Society Journal (LSJ) about innovative technology tools for small practices.

Advisory Board

The UNSW Allens Hub advisory board provides high-level advice. It consists of 12-16 members representing the legal profession, technology, industry, academia, government, and policy. The board is intended as a high-level strategic reviewer and a sounding board to ensure that the Hub's projects are important, relevant and have the potential for practical and/or policy impact. It provides exposure to a range of perspectives. Several members retired in 2022: Michael Legg, Joanne van der Plaats, Justice Stephen Burley and Katrina Johnson. The following members have been appointed to the board in 2022: Kate Jordan, Tomoyuki Hachigo and Michael Pattison. Justice Melissa Perry will join the board in 2023.

The board meets three times annually. During 2022 the board met on 7 April, 14 July and 13 October. This year, the board focussed on:

- Hub and FLIP Stream impact and engagement;
- AI Decision Making and the Courts report; and
- FLIP Stream 5-year achievements and close.

Steering Committee

The Allens Hub steering committee consists of six members. The committee normally meets four times a year, but in 2022 met three times, due to unanticipated universal apologies for the 23 June meeting. The steering committee provides the primary mechanism through which both Allens and the Law Society of New South Wales can offer advice, direction and feedback concerning the Hub. It is also the Hub's primary governance body. There is a separate reporting line from the FLIP Stream Director to the Law Society of New South Wales. During 2022 the committee met on 28 February, 15 September and 17 November. In 2022, Aaron Quigley retired from the steering committee. For 2023, Ann Tulip will join as an active member (having previously shadowed the meetings) and Professor Arcot Sowmya, Head of School Computer Science and Engineering, will join as the cross-faculty representative to replace Aaron Quigley.

The steering committee is responsible for oversight of:

- annual plans and reporting.
- annual budgets, including allocations to research streams; and
- major activities.

Affiliated Researchers

In 2022, the Hub had 59 members, being UNSW staff and Higher Degree Research candidates:

Name	Research description
Felicity Bell	future of legal profession and impact of technology, professional ethics and regulation, family and children law
Lyria Bennett Moses	theories and approaches to law and technological change; legal and policy issues for automation and artificial intelligence; regulation for cyber security
Kathy Bowrey	intellectual property; technology and culture/history/politics/philosophy
Ross Buckley	FinTech; blockchain; data technologies in banking



Lisa Burton Crawford	Technologies of legislation, rule of law, rules as code
Daniel Cater	domestic law enforcement access to transnational data for investigations while maintaining protections for domestic data pools from foreign data access overreach.
Janet Chan	data technologies; technology and organisational cultures; technology for access to justice
Philip Chung	legal information services; technology for access to justice
Roger Clarke	dataveillance; responsible data analytics; cybersecurity risk management; RegTech
Claire Daniel	use of technology in urban planning
Marc de Leeuw	Biologicalities, Artificial Intelligence, collaborative robotics, algorithmic hybridization
Simone Degeling	equity and digital technologies
Anton Didenko	digital financial services, FinTech and RegTech
Bruce Duncan	Chinese and US data governance; cross-border data flows, user devices
Belinda Dunstan	social robotics, technology ethics, feminist technology theory, human rights/robot rights, responsive environments
Bassina Farbenblum	technology for migrant worker protection and access to justice
Alexandra George	intellectual property
Tahlia Gordon	future of the legal profession
Janice Gray	water governance, digital asses
Graham Greenleaf	legal information services; data privacy and data governance; technology for access to justice
Michael Handler	intellectual property
Samuel Hartridge	privacy and data security law, civil liability for data breaches, and law enforcement and mass surveillance
Deborah Hartstein	law and political economy of the use of 'platform technologies' (e.g. data and algorithms) in Australian food retail
Jessica Hudson	equity and digital technologies
Danielle Hynes	social justice implications of ubiquitous datafication; imaginaries of the city
Regina Jefferies	migration, displacement, street-level bureaucracy, technologies of border control, technology and the live archive, and socio-legal research methods
Natalia Jevglevskaia	Fintech, consumer data right, law and (military) technology
Vedna Jivan	professional legal practice
Fleur Johns	data governance and digital humanitarianism
Daniel Joyce	media law, human rights and data governance
Matthew Kearnes	STS; responsible innovations; public engagement
Matthew Keeley	online harms; technology use by children and young people



Katharine Kemp	digital financial services; competition law; data privacy
Dimity Kingsford-Smith	future of legal profession; online investing regulation
Zsofia Korosy	Law, technology, and the environment
Jayson Lamchek	redistributive justice and human rights; benefit-sharing in Big Data; digital taxation; data as labor; photo-interpretation reliability.
Lesley Land	information security and management
Michael Legg	technology in litigation and dispute resolution; future of legal profession
Peter Leonard	fair and responsible practices and processes in advanced data analytics and AI, including governance and assurance of multiparty data ecosystems and IoT deployments
Susanne Lloyd-Jones	legal & policy adaptation to new & emerging cyber threats, cyber trust project
Kayleen Manwaring	eObjects and Internet of Things; information technology and consumer protection; cyber security and corporate governance; network neutrality
Bronwyn Miller	data justice research network stream
Jennifer Moore	health law
Bronwen Morgan	sharing economy and technology platforms
Rob Nicholls	technology platforms and competition law; technology for access to justice
Justine Nolan	business and human rights
Max Parasol	fintech
Michael Richardson	the intersection of affect, power and war through the lens of witnessing and testimony in culture, media and politics.
Justine Rogers	future of the legal profession; entry, socialisation and training; professional ethics and regulation
Nofar Sheffi	digital marketplace platforms; Terms of Service agreements; media theory and computer science
Tony Song	innovation in technology
Sriram Srikumar	studying the applicability of the Privacy Act to new types of information
Alex Steel	technology in legal education, technology and criminal law
Simon Taylor	history and philosophy of science, biometrics, pattern recognition, artificial intelligence, sensor development, tacit knowledges, collaborative robotics, algorithmic deployment
Amelia Thorpe	planning, property and local government law, legal geography and urban studies
David Vaile	data governance; cloud computing
Sophie Vivian	Trust and Trustworthiness; epistemology; philosophical psychology; behavioural and cognitive neuroscience; decision theory; political theory and international relations
Marina Yastreboff	Marina is at UNSW Legal, but shares an interest in Hub research
Monika Zalnierute	Information Policy and Internet Governance, human rights in the digital age, international data privacy law, and EU data protection law, data-driven discrimination, automation of government decision-making, LGBTI rights and feminist theory

2022 Achievements

Our annual planning is built around seven pillars, as follows:



The table below sets out our performance in each of these pillars over the course of 2022.

Pillar	Achievements and Outcomes
Enhance operations of core Hub team	<p>Collaboration with Allens: The core Hub team worked more closely this year with Allens, with quarterly meetings (including a longer meeting annually) to discuss opportunities for greater collaboration, particularly around events.</p> <p>New model for Hub fellowship – internal appointment: There were some benefits of appointing the Hub fellow internally, including supporting a UNSW academic with research opportunities. The part time nature of the role means it sits alongside other Faculty-related expectations. The outputs are therefore less compared to an externally hired Fellow with no such obligations. However, with the funds saved, we were also able to support teaching relief for an additional Hub member (Katharine Kemp). We re-appointed Kayleen Manwaring as Hub Fellow for 2023, as the trial continues.</p> <p>Leverage collaborative space: The use of the Hub space in 303 varied throughout the year, in line with university breaks and the ebbs and flows of pandemic-related risk. The space is now used at least part time by the Director, Administrator, CSCRC fellow, interns (during term), some HDR candidates, and visitors (during 2022, Andreas Ebert, HDR candidate visiting from University of Frankfurt). In person discussions and collaborations were more frequent.</p>
Community building	<p>Listening to members: We made a number of changes this year in response to member feedback and suggestions, including appointing the Hub fellow internally and in response to ideas for specific events and activities.</p>

	<p>Member meeting attendance: Attendance at quarterly Hub member meetings was strong this year, with members kept up to date on the Hub's activities and those of its streams, and sharing with colleagues news of opportunities and their own achievements. Meetings were held in hybrid mode to encourage face-to-face engagement while facilitating attendance.</p> <p>Membership: Our membership grew slightly over the course of 2022, going from 49 members in 2021 to 59 members at the peak of 2022 (although some have moved on before end of year).</p> <p>Collaboration: There was close collaboration between some Hub streams (in particular Challenges for a Cyber-Physical World and Right to Repair), and two Hub streams were collaborations with other Centres – Technologies of Legislation with the Gilbert + Tobin Centre of Public Law and GreenTech with the Sustainable Development Reform Hub. In addition, some streams engaged in close collaborations with other Faculties within UNSW (eg Data Justice Research Network) or externally to UNSW (eg Cooperative Platform Economies and Regenerative Cities).</p>
Communications	<p>Communications Plan: We considered a refresh of our communications strategy, but following consultation with the UNSW External Engagement team, decided that this was not necessary. We thus continue to work from the same strategy.</p> <p>LinkedIn: Following approval at UNSW, the Hub now has a presence on LinkedIn (in addition to Twitter @UNSWAllensHub and web).</p> <p>Website: Our website is kept up to date with events, news and changes.</p> <p>Newsletter: We sent three newsletters this year – 16 May, 10 August, 15 December. There was no newsletter early in the year due to staff changeover.</p> <p>Annual report: We have enhanced our report this year with some photos. We continue to believe that expending more resources on design of the report is not optimal.</p> <p>Promote research: We promote a variety of Hub research across all channels. Greater input from stream leads has enhanced our ability to promptly promote outputs.</p> <p>Collaboration: In promoting news and events, we continue to work with UNSW and Allens teams as well as the UNSW Law Society (for student audiences). FLIP Stream also collaborated extensively with the Law Society of NSW.</p>



Engagement	<p>Recognition: The UNSW Allens Hub brand is well known within Australian academia, particularly among law and technology scholars; it is increasingly recognised by aligned researchers internationally. We are also contacted directly by law reform bodies, government departments, and parliamentary committees suggesting increasing recognition of what we can contribute among policymakers. We receive both direct media inquiries and those redirected by the UNSW media team.</p> <p>Connections: Through our advisory board and UNSW, we have made a number of new connections over the course of the year, enhancing opportunities for presentations and co-sponsored events. We continue to work with collaborators within UNSW and across academia.</p> <p>Regional conference: The continuing pandemic, particularly in China, meant we have not launched the proposed regional conference.</p> <p>Hub lecture: The Hub Lecture was given by Professor Genevieve Bell (ANU) on 15 September 2022 on the topic of <i>Messages Pass Through: What the Overland Telegraph Line can Teach us about 21st Century Systems</i>. It was well-received by an engaged audience.</p>
Research	<p>Publications: Our full list of publications is at pages 20-30 below. We collaborated with Allens on one 'law and technology' column for the Australian Law Journal; other columns were edited by the Director according to the ALJ schedule.</p> <p>FLIP Stream: FLIP Stream has now reached its successful conclusion. A full list of outputs is available at Appendix pages 26-33 and will continue to be available on our website.</p> <p>Research streams: We have improved processes for applications, reporting and evaluations of research streams. The applications for stream funding in 2023 were well over the available budget, a sign of continuing interest in this program.</p>
Impact	<p>Impact-related activities: We made 14 submissions to policy bodies in 2022; the full list is at pages 31-32. In addition to formal submissions, we hosted several roundtables with government on a range of issues. The Director continues to serve on the Standards Australia AI committee and, through that, works occasionally with ISO/IEC JTC1 SC 42.</p> <p>Impact: Our submissions are regularly cited in policy reports. Most exciting in 2022 was Minister Dominello's agreement with our proposal for reforms to state computer crime laws to encourage participation in vulnerability disclosure schemes (albeit a reform not passed in this parliamentary term).</p>

Funding	<p>CSCRC grants: In addition to existing CSCRC funding, we received funding for two Honours scholarships (\$10,700 each to Ankita Rao and Henry Chen), \$22,524 for a work package on law and policy in the SOCRATES (software security) project and \$39674 for a project on the complexity of regulation pertaining to cloud computing.</p> <p>Research contracts: We worked on a number of government contracts throughout the year, total funding \$583,079.</p> <p>Awarded grants: A total of 8 grants were awarded to Hub members in 2022.</p>

2022 Achievements

- Significant funding for contract research, with potential for high impact with NSW and Commonwealth governments.
 - Launch of report for AIJA (this was funded in 2021) on *AI Decision-Making and the Courts: a guide for judges, tribunal members and court administrators*. Significant impact potential on increasing understanding of AI and implications in courts. AIJA members are judges and court administrators – report has been presented to their board and distributed to all members.
 - New project with Cyber Security CRC on software security (we will be focussing on alignment between regulation and security as well as encryption laws and incentives in the context of quantum).
 - 2 new Honours scholarships with Cyber Security CRC
 - Phillip Marsden ‘Conversation’ event held at Allens (10 Aug)
 - [UNSW Allens Hub Lecture with Genevieve Bell \(15 Sept\)](#)
 - Co-sponsored [Facial Recognition in the Modern State](#), (Online) (15 Sept, 9am – 6pm)
 - Co-hosted Daniel Joyce Book Forum event (14 Sept)
 - Events co-hosted with UNSW AI Institute with Prof Chris Marsden on AI Law and Regulation: A European Perspective at UNSW (10 Oct). Presentation at Allens (11 Oct)
 - Held online policy roundtables with the Department of Home Affairs
- Continued editorship of the Australian Law Journal column on Law and Technology, including one essay on *Artificial Intelligence – Control or Cultivate?* (authored by Allens – Michael Park et al).

Challenges

- Gap in handover of administrator role in early 2022.
- Ongoing higher impacts due to Covid-19 and other illness for key personnel.
- Experimentation around in person and hybrid events post-Covid-19.



Research Streams

Research streams for 2022 were as follows:

- **AI Decision Making and Law (Dr Monika Zalnieriute):** the stream explores the relationship between various automation and interference techniques, popularly known as AI, and increasing technologisation of decision-making in governments, courts, corporations and society.
- **Challenges for a Cyber-Physical World (Dr Kayleen Manwaring):** the stream's objective is to develop an Australian hub of research excellence around legal challenges for cyber-physical systems and connected devices.
- **Cooperative platform economies and regenerative cities (Professor Bronwen Morgan):** to continue to support the work of Regen Sydney and leverage that work to explore key issues at the intersection of law, technology and regenerative economic development.
- **Cyber Trust Project: Trust and Trustworthiness in Cyber Security (Dr Susanne Lloyd-Jones, Dr Sophie Vivian):** the stream is designed to interrogate the use of the concepts of trust and trustworthiness in cyber security contexts.
- **Data Justice Research Network (Danielle Hynes, Bronwyn Miller):** clarifying both how data justice arises as a problem in need of addressing and how it can be defined, measured, and delivered in different social and organisational settings.
- **FinTech (Professor Ross Buckley):** seeks to explore the impact of technological disruption on financial markets in Australia and across the globe, by analysing existing challenges, creating a discussion platform to exchange ideas among various stakeholders, and developing workable solutions
- **Greentech (Professor Bronwen Morgan, Dr Zsofia Korosy):** the stream focuses on the need to better understand and map this web of green tech law and policy, examining differences across sectors, while also identifying common features and ways in which externalities and social costs can be addressed, while allowing for learning, support and facilitation of the burgeoning green tech industry.
- **Hybrid life and legal personhood (Dr Marc de Leeuw):** seeks to understand the changing role for legal and regulatory frameworks in response to shifts in legal personalities driven by 21st century technological, bioscientific and economic developments.
- **Right to Repair (Professor Matt Kearnes):** the current and in-progress outputs of the stream address the intersections between repair practices in specific contexts and the wider legal and regulatory debate concerning the need to reflect rights to repair in contemporary intellectual property and consumer law.
- **Technologies of Legislation (A/Professor Lisa Crawford):** examining the relationship between technologies and the rule of law.
- **The FLIP Stream annual topic for 2022 was: Lawyers, Clients and Colleagues: Trust and Relationships in an Online World.** The research focussed on the centrality of trust within the legal profession, and how a move to online or hybrid environments impacted the ability of lawyers to cultivate trusted relationships and to maintain their professional ethical obligations. Where previously, lawyers could rely on face-to-face communication, physical interaction, and co-location to build trust, virtual legal practice instead required lawyers to rely on technology to sustain the same high-quality

relationships of trust with clients, colleagues and courtrooms. Drawing from research in the fields of organisational management, social psychology and philosophy, as well as industry reports, FLIP's research provided the necessary context and practical guidance to navigate a brave new online legal world. The findings from the annual topic were presented at the Law Society of New South Wales 2022 Conference on 5 September 2022.

Events

The Allens Hub was involved in and/or hosted the following in 2022.

- **11 Mar** – Greentech co-stream lead, Bronwen Morgan delivered a keynote on 'Beyond Sustainability: Regulating Regenerative Economies' at the Milan symposium *At the Root of Sustainability*.
- **15 Mar** – Co-hosted Rules as Code 2.0 Global Plenary (led by Australian Society of Computers and the Law).
- **24-25 Mar** – Senior Hub Fellow and Challenges for a Cyber-Physical World stream lead, Kayleen Manwaring presents symposium on *(Legal) Challenges for a Cyber Physical World*, hybrid event.
- **3 Apr** – Director presents at Privacy Awareness week NSW Public Sector Leaders Event
- **7-8 Apr** – UNSW Institute for Cyber Security Conference (including presentation by Director)
- **12 Apr** – AI Decision Making and Law stream lead Monika Zalnieriute presented a guest lecture on *The Rule of Law and AI* at the *Law and Automation JD Elective at Melbourne Law School, University of Melbourne* (online, by invitation).
- **14-15 Apr** – Senior Hub Fellow and Challenges for a Cyber-Physical World stream lead, Kayleen Manwaring attended and presented 'Enforcement-in-a-box: Technological Implementation of Private Rights', at British and Irish Law Education and Technology Association (BILETA) (virtual); B Duncan (HDR student and Hub Member) also attended virtually.
- **17 May** – Director participates in AIIA event with Professor Toby Walsh on his book 'Machines Behaving Badly'.
- **25 May** – Director participates in book launch and facilitates panel at AGSM Professional Forum in Sydney.
- **27 May** – The Hub attended a roundtable with the department of home affairs on the Electronic Surveillance Framework Discussion Paper in June 2022.
- **27 May** – Technologies of Legislation stream lead, Lisa Burton Crawford gave a presentation to Comparative Constitutional Law Roundtable.
- **1-3 Jun** – AI Decision Making and Law stream lead Monika Zalnieriute presented *The Rule of Law and Facial Recognition Technology* at the *9th Biennial Surveillance & Society Conference of the Surveillance Studies Network*, in Rotterdam, The Netherlands.
- **7 Jun** – Following previous submission regarding the discussion paper for the fifth interim report on the Digital Platform Services Inquiry, Hub Fellow Kayleen Manwaring attended a limited numbers round table with ACCC Deputy Chair (Delia Rickard) and 2 other Commissioners to discuss consumer protection issues for the report.

- **16-17 Jun** – AI Decision Making and Law stream lead Monika Zalnieriute presented *Privacy and Facial Recognition Technologies* at the *Tallinn Conference on Privacy, Data Protection and New Technologies*, in Tallinn, Estonia (by invitation).
- **17-18 Jun** – AI Decision Making and Law stream lead Monika Zalnieriute presented *Debunking Big Tech Procedural Fetishism: A Call for a New Digital Constitution* at the Max Planck Institute for Comparative and International Law International Workshop, *Digital Constitution: On the Transformative Potential of Societal Constitutionalism*, in Frankfurt, Germany (online).
- **3 Jul** – Cooperative Platform Economies and Regenerative Cities stream lead, Bronwen Morgan delivered a keynote on ‘Between Form and Profession in the Margins of Corporate Law’ at the Australian Corporate Law Teachers’ Conference.
- **4-6 Jul** – AI Decision Making and Law stream lead Monika Zalnieriute presented *Power and Protest: Facial Recognition Technology and Public Space Surveillance* at the *iCON Annual Conference* in Wroclaw, Poland.
- **5 Jul** – Hub Director attended the Cyber Security CRC Student Research Symposium, Melbourne.
- **7 Jul** – Hub Director attended panel for the Future of AI in the Legal Profession.
- **11 Jul** – Hub Director speaks on PETS 2022 event panel.
- **29 Jul** – Technologies of Legislation stream lead, Lisa Burton Crawford presents the *Rules as Code* hybrid event.
- **3 Aug** – Greentech co-stream lead, Bronwen Morgan presented at TedX event, *What Does Good Look Like for Sydney?*, Town Hall, Sydney
- **5 Aug** – Hub Director attends a workshop on AI and disability rights at Uni Melbourne.
- **10 Aug** – *The Rise of Regulation in Digital Markets* live panel event lead by Dr Katharine Kemp with Dr Philip Marsden and Allens Partner Jacqueline Downes at Allens offices in Sydney.
- **16 Aug** – Hub Director chaired UNSW Engineering event ‘We need to talk about Nuclear’.
- **18 Aug** – Hub Director participated in ANU Tech Policy Design Centre roundtable on their Tech Policy and Regulation Coordination model.
- **19 Aug** – Hub Director presented at ‘Robophilosophy’ conference on topic of legal personality for AI.
- **24 Aug** – Technologies of Legislation stream lead, Lisa Burton Crawford attended meetings with Datalex team, 24 August 2022
- **25 Aug** – Hub Director Lyria Bennett Moses attending (invited) a round table on critical infrastructure, with Minister Victor Dominello, hosted by Deloitte.
- **6 Sept** – Hub Director Lyria Bennett Moses attended a meeting regarding submission with Attorney Generals Department, electronic surveillance reforms.
- **6-9 Sept** – Senior Hub Fellow, Kayleen Manwaring attended and presented ‘Enforcement-in-a-box: computational law in smart devices’, at Society of Legal Scholars, 113th Annual Conference, King’s College London.
- **8 Sept** – Hub Director Lyria Bennett Moses attended roundtable discussion regarding submission on Digital Records upon Death, with NSW Justice.

- **8 Sept** – Co-stream leads, Susanne Lloyd Jones and Sophie Vivian of the Cyber Trust Project stream present *Trust in Cyber Security Roundtable* event at Allens offices in Sydney.
- **8 Sept** – Fleur Johns co-hosts a workshop at Edinburgh University titled *Global Governance by Data: Infrastructures of Algorithmic Rule*. The event will result in an edited book to be published by Cambridge University Press.
- **9 Sept** – Hub Director Lyria Bennett Moses gave a presentation for Big Data in Social Policy event.
- **14 Sept** – UNSW Law & Justice, UNSW Allens Hub for Technology, Law and Innovation and the Australian Human Rights Institute present *UNSW Law and Justice Book Forum: Daniel Joyce*, the book launch for Hub Member Daniel Joyce's new publication, *Informed Publics, Media and International Law*.
- **15 Sept** – UNSW Allens Hub holds its 2022 annual lecture featuring a keynote speech by Distinguished Professor Genevieve Bell, titled *Messages Pass Through: What the Overland Telegraph Line can Teach us about 21st Century Systems*.
- **15 Sept** – AI Decision Making and the Law stream lead, Monika Zalnieriute presents *Facial Recognition in the modern State* online conference, co-hosted by UNSW Allens Hub. \
- **16 Sep** – Hub Director Lyria Bennett Moses chaired the in Conversation with Francis Haugen for *Facebook Whistleblower*, as part of the UNSW Centre for Ideas' Festival for Dangerous Ideas 2022.
- **20 Sept** – Hub Director Lyria Bennett Moses gave a guest lecture in Advanced Administrative Law on automated decision-making.
- **27 Sept** – Hub Director Lyria Bennett Moses gave a presentation to Faculty Seminar Series on data sharing paper.
- **27 Sept** – Hub Director Lyria Bennett Moses attended meeting with NSW Health on data ownership.
- **28 Sept** – Hub Director Lyria Bennett Moses hosted the IFCYBER seminar on The Challenges of Regulating Big Techs.
- **28 Sept - 1 Oct** – Data Justice Research Network Writing Retreat, held in the Blue Mountains, NSW, gave 6 PhD candidates and Early Career Researchers the opportunity to come together and spend focussed time on writing their work.
- **29 Sept** – Hub Director attended meeting with Home Affairs about Mobile App Security Policy Intervention.
- **29 Sept** – UNSW Allens Hub met with Cyber and Digital Economy Policy Team at the Department of Home Affairs to conduct a general discussion on mobile app security.
- **5 Oct** – Senior Hub Fellow, Kayleen Manwaring attended and presented 'A view from Australia: the ACCC and proposed regulation of 'dark patterns'', and also acted as a panellist at the final panel discussion at The Digital Ecosystem and Marketing of Unhealthy Products: Finding a Way Forward, Wellington, NZ, held by the SHORE & Whariki Research Centre, Massey University.
- **6 Oct** – Hub Director Lyria Bennett Moses gave her TedX talk titled, [*Should we worry about AI and algorithms in government?*](#), live at the TedX Sydney Salon, in partnership with Standards Australia.
- **11-12 Oct** – Hub Director Lyria Bennett Moses gave presentation and was panel chair at CYBERCON in Melbourne.

- **13 Oct** – Senior Hub Fellow and Challenges for a Cyber-Physical World stream lead, Kayleen Manwaring presents *Mapping the physical self: an introduction to direct-to-consumer genetics*, with guest speaker, Dr Andelka Phillips (UQ, Oxford).
- **13 Oct** – Hub Director attended meeting with Western Australian privacy and responsible information sharing team.
- **14 Oct** – Right to Repair stream lead, Matt Kearnes presents *A Right to Repair: Practices and Policies Workshop*, for International Repair Day 2022. This event was co-hosted by UNSW Allens Hub, Michael Crouch Innovation Centre (MCIC), UNSW Environment and Society Group and the UNSW Science and Society Research group.
- **20 Oct** – Hub Director Lyria Bennett Moses gave a Copyright symposium ‘copy-bite’ presentation.
- **21 Oct** – Hub Director Lyria Bennett Moses presented at Cyber insights series with Cyber NSW leading to invitation to lead/write brief for Minister Dominello on a proposal raised at the roundtable on amending cyber crime laws to encourage vulnerability disclosure.
- **24 Oct** – Cooperative Platform Economies and Regenerative Cities stream lead, Bronwen Morgan worked with Regen Sydney to run the first of two community workshops. 60 people attended the first with wide responses on LinkedIn (directly supported by Allens Hub).
- **26 Oct** – Hub Director Lyria Bennett Moses had a booth at the UNSW research translation expo.
- **26 Oct** – *Cyber Insight roundtable*: NSW Digital Minister, Victor Dominello requested Lyria to run up a proposal for a change to the new cybercrime laws for reporting on vulnerabilities.
- **2 Nov** – UNSW Allens Hub presents the online lecture, *The Design Turn in Law: A Sensible Answer to Regulatory Failure?* with visiting speaker Professor Lee Bygrave (University of Oslo).
- **2 Nov** – Hub Director Lyria Bennett Moses gave keynote at the first *Smart Western Sydney Showcase*, organised by NSW Transport.
- **3 - 4 Nov** – Hub Director Lyria Bennett Moses is track chair at *Cross-disciplinary Research in Computational Law (CRCL)*, “Computational ‘law’ on edge” online conference, to be held in Brussels.
- **9 Nov** – Hub Director Lyria Bennett Moses attending full day, *Greater Sydney Strategy Workshop* at Paramatta Innovation Hub.
- **14 Nov** – Senior Hub Fellow, Kayleen Manwaring presented ‘Regulating the location economy’ *DMRC Urban Media and Digital Geographies Symposium 2022: Where it’s at – locating data futures in the digital economy* at QUT, Brisbane.
- **15-16 Nov** – Hub Director Lyria Bennett Moses participated remotely in an expert workshop at Utrecht (overnight).
- **16 Nov** – Cooperative Platform Economies and Regenerative Cities stream lead, Bronwen Morgan worked with Regen Sydney to run their second community workshop. (directly supported by Allens Hub).
- **18 Nov** – Hub Director Lyria Bennett Moses presenting at South Australian ‘Both Sides of the Fence’ event.
- **24 Nov** – UNSW Allens Hub co-hosts *Cybercrime Through an Ecological Lens’: Professor Benoît Dupont* hybrid seminar event with UNSW Centre for Crime, Law and Justice (CCLJ).

- **25 Nov** – Hub Director Lyria Bennett Moses and co-stream leads Bronwen Morgan and Zsafia Korosy presented the online *Greentech Roundtable* with attendees from UNSW, Allens Law and Australian Energy Market Commission.
- **28 Nov and 1 Dec** – Cooperative Platform Economies and Regenerative Cities stream lead, Bronwen Morgan coordinated four stakeholder roundtables to be held on economics and finance; shaping the environment; social equity and wellbeing; and public policy and law: 15-20 participants in each (directly supported by Sustainable Development Law Reform Hub). UNSW Allens Hub to be verbally acknowledged at the start of each roundtable.
- **29 Nov** – FinTech stream lead, Ross Buckley presents the hybrid lecture event, *FinTech and the Financial System: From Problem to Crisis Response Mechanism with Professor Dirk Zetzsche*.
- **1 Dec** – Director presents at judges' conference in Federal Court of Australia on AI Decision-Making in Courts.
- **2 Dec** – Senior Hub Fellow and Challenges for a Cyber-Physical World stream lead, Kayleen Manwaring (with Z Bednarz) presented at Australasian Consumer Law Roundtable in Wellington NZ on 'The Hidden Depths of Collection of Consumer Data by Insurers'.
- **8 Dec** – Senior Hub Fellow and Challenges for a Cyber-Physical World stream lead, Kayleen Manwaring presents the online lecture event, *Internet of Things and the Law: Legal Strategies for Smart Technologies* with Dr Guido La Diega.
- **Monthly, May - Nov** – Data Justice Research Stream leads, Danielle Hynes and Bronwyn Miller ran their stream's reading group throughout 2022, for the interdisciplinary network of scholars discussed various topics related to the impacts of data justice. Their work was documented on this blog: <https://datajusticeunsw.wordpress.com/>
- **Throughout 2022** – Cooperative Platform Economies and Regenerative Cities stream lead, Bronwen Morgan liaised with City of Sydney officials on the development of their community wealth-building policy and more recently broader economic strategy.
- **Ongoing** – Hub Director participates in meetings for NSW Information and Privacy Advisory Committee and Standards Australia and for ISO/IEC JTC 1 SC 42 (for AI standards).



Hub Communications

Evaluating Success – As per the Hub's communications strategy document and the end of

Communications Method	Metrics
Quarterly Newsletter	<p>The newsletter mailing list currently has 1100+ subscribers.</p> <p>Three newsletters were produced in 2022.</p> <p>An average of 33% of subscribers opened the newsletters.</p> <p>The average click through was 12%</p>
Twitter	<p>The Hub's twitter account currently has over 820 followers and has made over 925 tweets.</p>
LinkedIn	<p>The Hub's presence on LinkedIn is new and growing, with our page created in 2022.</p> <p>The Hub has 170 followers.</p> <p>The demographics of our followers on LinkedIn - by industry – includes: Outsourcing and Offshoring Consulting (28.8%); Law Practice (22.6%); Higher Education (19.4%); Administration of Justice (6.5%); Data Security Software Products (6.5%).</p>
Website	<p>Website engagement oscillates as people look at events and news. The website also operates as a useful repository for media mentions, events, submissions and updates.</p> <p>During 2022, 4,937* sessions occurred on the Hub website, with a total of 14,644* page views.</p> <p><i>*Data provided from UNSW google analytics reporting. Period covers 1 Jan 2022 to 31 Dec 2022</i></p>
Media	<p>*Between 06 Feb 2022 and 06 Feb 2023 reference to the words 'Allens Hub', 'UNSW Allens Hub' and 'Lyria Bennett Moses" was mentioned in the media 503 times, including the coverage types listed below. This had a potential audience reach of 6,859,251.</p> <p>Radio: 300</p> <p>TV: 103</p> <p>Influencer Social: 51</p> <p>Online: 47</p> <p>Print: 2</p> <p><i>*Statistics provided from UNSW Media Coverage report compiled on 06/02/2023. Period covers 06 Feb 2022 to 06 February 2023.</i></p>
Research is being used in the public domain	<p>14 submissions were made by the Hub and its members between 1 Jan 2022 and 31 Dec 2022.</p>

Publications

Publications are organised by streams, briefly explaining the focus of publications this year. In addition, Hub members have explored a variety of other topics in the field, and those publications are also included under relevant topic headings. The publications as a whole embrace theoretical, empirical and doctrinal approaches and a wide variety of issues. Some of these look at the relationship of law, technology and innovation at a broad level, while most others engage with specific questions that arise in a particular context.

AI Decision Making and Law



Stream Lead Monika Zalnieriute presenting at the online Facial Recognition in the Modern State (FRITMS) Conference in September 2022.

Led by Dr. Monika Zalnieriute, 'AI Decision-Making and Law' Research Stream explored the relationship between various automation and interference techniques, popularly known as AI, and increasing technologisation of decision-making in governments, courts, corporations and society. The stream has delivered many cutting-edge projects, with direct relevance and impact on policy making in Australia and internationally. Publications either directly concern the relationship between the AI decision-Making and the law, or deal with the aspects of rule of law (e.g, data protection and/or human rights) and technology, often approaching issues from an international law or legal theory and/or doctrinal perspectives.

- (1) Zalnieriute, M. (2022). Big Brother vs UK. *American Journal of International Law*, Vol 116(3), 585-592. doi:[10.1017/ajil.2022.35](https://doi.org/10.1017/ajil.2022.35)
- (2) Zalnieriute, M. (2022). Data Transfers after Schrems II: The EU – US Disagreements over Data Privacy and National Security. *Vanderbilt Journal of Transnational Law*, Vol 55(1), 1-48.
- (3) Zalnieriute, M. (2022). A Struggle for Competence: National Security, Surveillance and the Scope of EU Law at the Court of Justice of European Union. *Modern Law Review*, 85(1), 198-218
- (4) Zalnieriute, M. (2022). How Public Space Surveillance is Eroding Political Protests in Australia, in M. Straub (Hrsg.) *Überwachung im öffentlichen Raum. 9/11, 20 Jahre später: eine verfassungsrechtliche Spurensuche (Surveillance in Public Space. 9/11, 20 Years Later: Search for Traces under Constitutional Law)*. *Verfassungsbücher*, Germany, 67-80.

- (5) Bell, F., Bennett Moses, L., Legg, M., Silove, J. and Zalnieriute, M. 'AI Decision-Making and the Courts: A Guide for Judges, Tribunal Members and Court Administrators', Report for Australasian Institute on Judicial Administration, June 2022.
- (6) United Nations Internet Governance Forum Dynamic Coalition on Platform Responsibility, *Glossary of Platform Law and Policy Terms*, December 2020.

Challenges for a cyber-physical world

The international research symposium (Legal) Challenges for a Cyber-Physical World was held in March 2022 in a hybrid form. All of the presentations were invited from leading scholars in the area, and invitations carefully targeted, and as a result the quality of both the presentations and ensuing discussions were very high. A symposium subsite was built, which is linked to the main Hub website, and all but one of the presentation recordings are available on this site. The stream continued its public seminar series Challenges for a Cyber-Physical World to provide awareness-raising for scholars and practitioners to educate them on potential harms and other issues that may be created by a cyber-physical world. The 2022 series expanded to invite presentations from scholars outside UNSW (University of Queensland/Oxford University and Stirling University), and encompassed discussions on genetic technologies and novel strategies to empower consumers of the Internet of Things. One academic article was published focussing on the right to repair (in conjunction with the Right to Repair stream), and an invited book chapter that expands on the legal implications of right to repair has been completed. An additional journal article and op-ed following on from the 2021 project relating to insurance, AI and big data were also published, discussing the data protection and insurance implications of importance of insurers obtaining data from new sources, which included the use of loyalty cards, as well as other Internet of Things and other cyber-physical devices. Stream lead Dr Kayleen Manwaring drafted a submission to the ACCC Digital Platform Services Inquiry 5th Interim Report in relation to dark patterns, as she has researched extensively on digital consumer manipulation relating to cyber-physical devices. Kayleen was also successful in her application to have her Senior Research Fellowship in the Hub extended for 2023. The Hub's international HDR candidate, Mr Bruce Duncan, who is working on a comparative US and Chinese study on regulation of cross-border data flows from connected devices, has arrived in Australia and successfully passed his annual progress review. Bruce is supervised jointly by Kayleen and Professor Deborah Healey, with co-supervisor Dr Lu Wang. The Stream Lead presented at several conferences, and was interviewed by the media, on work relating to the stream, and flights and accommodation for three of these presentations were externally funded, due to the importance of the work. Two research assistants, Ms Bianca Tolic (originally an intern with the Hub) and Ms Jennifer Westmorland, were employed to assist with research, event management, website updating and administration.

- (7) Bednarz, Z., Manwaring, K. (2022). Hidden depths: the effects of extrinsic data collection on consumer insurance contracts, 45 *Computer Law and Security Review: the International Journal of Technology Law and Practice*, art 10566
- (8) Bednarz, Z., Manwaring, K., Weatherall, K. (2022). Insurance firms can skim your online data to price your insurance — and there's little in the law to stop this, *The Conversation* (20 Jun)
- (9) Manwaring, K., Kearnes, M., Morgan, B., Munro, P., Pala R., Samarakoon, S. (2022). What does a right to repair tell us about our relationship with technology?, 47 *Alternative Law Journal*, 179
- (10) Manwaring, K. (2022). Repairing the third wave of computing. In N. Kim, & S. -A. Elvy (Eds.), *Cambridge Handbook on Emerging Issues at the Intersection of Commercial Law and Technology (This publication is also related to the Right to Repair research stream)*



- (11) Manwaring, K. (2022, September 6). Enforcement-in-a-box: computational law in smart devices. In *Society of Legal Scholars, 113th Annual Conference*. King's College London.
- (12) Manwaring, K. (2022, November 14). Regulating the location economy (panel). In *DMRC Urban Media and Digital Geographies Symposium 2022: Where it's at – locating data futures in the digital economy*. Queensland University of Technology, Kelvin Grove. Retrieved from <https://research.qut.edu.au/geoprivacy/symposium-program-14-november/>
- (13) Manwaring, K. (2022, April 14). Enforcement-in-a-box: Technological Implementation of Private Rights. In *British and Irish Law Education and Technology Association (BILETA)*. London.
- (14) Manwaring, K., Kearnes, M., Morgan, B., Munro, P., Pala, R., & Samarakoon, S. (2022). What does a right to repair tell us about our relationship with technology?. *Alternative Law Journal*, 47(3), 179. doi:[10.1177/1037969X221108557](https://doi.org/10.1177/1037969X221108557) (This publication is also related to the *Right to Repair research stream*)
- (15) Tolic, B., & Manwaring, K. (2022). Face-off: are Australian consumers ready for facial recognition technology?. *Australian Law Journal*, 96(12), 875-879.

Cooperative Platform Economies and Regenerative Cities

Regen Sydney is a network of over 400 organisations and individuals connecting across silos and sectors to reimagine a new economic narrative for Sydney, drawing initially on the framework of Doughnut Economics developed by Kate Raworth. As part of a series of activities to generate a vision for a regenerative, distributive and socially-just economy for greater Sydney, in 2022 Regen Sydney organised two community roundtables on the social and then ecological aspects of the vision, followed by a series of four stakeholder roundtables exploring the relevance of this vision for professionals working in social equity and wellbeing; shaping the environment; economics and finance; and law government and public policy. These built on the inaugural report *Growing the Movement for a Regenerative Sydney* and will form the foundation for a Draft City Doughnut Report in early 2024.

- (16) Morgan, B., Thorpe, A. (2022). Prefigurative Legality: Transforming Municipal Jurisdiction, Urban Studies special issue: Municipalism in Crisis.

Cyber Trust Project: Trust and Trustworthiness in Cyber Security



Cyber Trust Project Stream co-leads, Sophie Vivian and Susanne Lloyd-Jones, following the successful Trist in Cyber Security Roundtable, held at Allens in September 2022.

The Cyber Trust Project Stream critiques trust and trustworthiness in cyber security contexts from an interdisciplinary perspective. The stream's objective is to develop a practice and policy toolset that seeks to define and conceptualise trust and trustworthiness with more precision to allow for operational success. The stream co-leads convened a roundtable in September 2022 and afterwards provided a thematic report to participants. The roundtable was coordinated to inform the Hub's research into this area and further discussion on trust in cyber security and what it means from a practical and day to day business perspective. The roundtable covered: the inconsistent roles that trust is playing in cyber security; how trust can be misleading and obscure other more accurate explanations, solutions, and conclusions, whether cyber security practitioners and policy makers are alert to the potential legal, regulatory and security issues of using trust in contradictory ways, enhancing the predictive capability of cyber security. The event was a success, leading to many new insights gained from this discussion.

- (17) Lloyd-Jones, S., & Manwaring, K. (2022, October 11). Complex regimes: Mapping Australia's Cyber Security Regulatory Landscape for Cloud Services. In Australian Cyber Conference 2022: Resilience in a Cyber World. Melbourne.
- (18) Lloyd-Jones, S., Manwaring, K., Berger, T., Nicholls, R., & Bennett Moses, L. (2022). Complex Regimes: Mapping Australia's Cyber Security Regulatory Landscape for Cloud Services.

Data Justice Research Network



Some of the attendees of the 3-day, 3-night writing retreat held in the Blue Mountains. This retreat was run by the Data Justice Research Network in September 2022.

Publications all engage in critical analyses of aspects of using technology for the legal/justice system, public health or the regulation of technologies. Publications by Danielle Hynes listed address key issues related to policy regulation of technologies.

- (19) Davis, M. D. M., Schermuly, A., Smith, A. K. J., Newman, C. (2022). Diversity via datafication? Digital patient records and citizenship for sexuality and gender diverse people. BioSocieties. [Advance online publication]. <https://doi.org/10.1057/s41292-022-00277-5>

- (20) Mouldrem, S., Smith, A. K. J., McClelland, A. (2022). Predictive analytics in HIV surveillance require new approaches to data ethics, rights, and regulation in public health. *Critical Public Health*. [Advance online publication]. <https://doi.org/10.1080/09581596.2022.2113035>
- (21) Randell-Moon, H., Hynes, D. (2022). 'Too smart': Infrastructuring the Internet through regional and rural smart policy in Australia, *Policy & Internet Journal*, vol. 14, no. 1, pp. 151-169.

Fintech

Research output in this stream – journal articles, book chapters, reports and submissions – addresses a wide range of issues that the rise of data-driven technology in finance poses for society. Among others, it covers blockchain, central bank digital currencies (CBDCs), FinTech and RegTech, artificial intelligence, and the Consumer Data Right.

- (22) Arner, D., Buckley, R., Zetsche, D. (2022). 'FinTech and the Four Horsemen of the Apocalypse' (2022) 39(1) *Banking and Finance Law Review* 5–31. Link: [SSRN](#).
- (23) Arner, D., Buckley, R., Zetsche, D., Tang, W., Van Romburg, L. (2022). 'The Regulation of Artificial Intelligence in Finance' in N Remolona (ed), *The Use of Artificial Intelligence in the Financial Sector: Opportunities and Regulatory Developments* (Edward Elgar, forthcoming).
- (24) Arner, D., Buckley, R., Charamba, K., Sergeev, A., Zetsche, D. (2022). 'BigTech and Platform Finance: Governing FinTech 4.0 for Sustainable Development', 27(1) *Fordham Journal of Corporate and Financial Law* 1–71. For a Chinese translation, see also *Journal of Cyber and Information Law* (a journal of the China Cyber and Information Law Society and Law Institute of Chinese Academy of Social Science (CASS)). Link: [SSRN](#).
- (25) Arner, D., Buckley, R., Zetsche, D., Sergeev, A. (2022). 'Digital Finance, Financial Inclusion and Sustainable Development: Building Better Financial Systems' in J Beirne, J Villafuerte and B Zhang, *FinTech and COVID-19: Impacts, Challenges and Policy Priorities for Asia* (Asian Development Bank Institute) 176–201. Link: [ADB](#).
- (26) Arner, D., Buckley, R., Zetsche, D. (2022). 'Open Banking, Open Data and Open Finance: Lessons from the European Union' in Linda Jeng (ed), *Open Banking* (Oxford University Press) ch 8. Link: [SSRN](#).
- (27) Arner, D., Buckley, R., Zetsche, D., Sergeev, A. (2022). 'Digital Finance, Financial Inclusion and Sustainable Development: Building Better Financial Systems' in J Beirne, J Villafuerte and B Zhang, *FinTech and COVID-19: Impacts, Challenges and Policy Priorities for Asia* (Asian Development Bank Institute) 176–201. Link: [ADB](#).
- (28) Arner, D., Buckley, R., Zetsche, D. (2022). 'Open Banking, Open Data and Open Finance: Lessons from the European Union' in Linda Jeng (ed), *Open Banking* (Oxford University Press) ch 8. Link: [SSRN](#).
- (29) Arner, D., Buckley, R., Lammer, T., Zetsche, D., Gazi, S. (2022). 'Building Regional Payment Areas: The Single Rule Book Approach' (BIS Working Paper No 1016). Link: [SSRN](#).
- (30) Buckley, R. P., Didenko, A. N., Trzecinski, M. (2022) 'Blockchain and its Applications: A Conceptual Legal Primer' *Journal of International Economic Law* (forthcoming). Link: [SSRN](#).
- (31) Buckley, R., Trzecinski, M. (2022). 'Central Bank Digital Currencies and the Global Financial System: The Dollar Dethroned?' *Capital Markets Law Journal* (forthcoming). Link: [SSRN](#).

- (32) Buckley, Arner, D., Zetsche, D., Weber, R., Trzecinski, M. (2022). 'Technology, FinTech and Capital Markets: The EU Experience with Digital Transformation' in Iris Chiu and Ian MacNeill (eds), *Research Handbook on Capital Markets* (Edward Elgar, 2022).
- (33) Buckley, R., Arner, D., Zetsche, D., Lammer, T., Gazi, S. (2022). 'Regional Solutions to Global Payments Challenges: Towards a Single Rulebook', 38 *Banking and Finance Law Review* (Festschrift issue for Ben Geva) 81–115. Link: [SSRN](#).
- (34) Buckley, R., Jevglevskaia, N., Farrell, S. (2022). 'Australia's Data Sharing Regime: Six Lessons for Europe', 33(1) *King's Law Journal* 61–91. Link: [SSRN](#).
- (35) Didenko, A. (2022). 'Implications of the Consumer Data Right Framework for Trusted Advisers' (Report). Links: [CPA Australia](#), [SSRN](#).
- (36) Didenko, A., Buckley, R. (2022). 'Central Bank Digital Currencies as a Potential Response to Some Particularly Pacific Problems', 30(1) *Asia Pacific Law Review*. Links: [APLR](#), [SSRN](#).
- (37) Didenko, A., Buckley, R. (2022). 'Cross-border Implications of Using Global Stablecoins and Sovereign Digital Currencies in International Payments' in B Mercurio (ed), *Empowering Transformation: Connectivity and Cross-Border Data Flows* (Cambridge University Press).
- (38) Didenko, A. (2022). 'Decentralised Finance – A Policy Perspective' (Report, December 2022). Links: [CPA Australia](#), [SSRN](#).
- (39) Jevglevskaia, N., Buckley, R. (2022). 'The Consumer Data Right: How to Realise This World-Leading Reform' 45(4), *University of New South Wales Law Journal* 1589–1622. Link: [SSRN](#).
- (40) Wang, H., Buckley, R.P. (2022). 'The Coming Central Bank Digital Currency Revolution and the e-CNY: Considerations and Ramifications' *Singapore Journal of Legal Studies* (forthcoming). Link: [SSRN](#).
- (41) Zetsche, D., Buckley, R., Arner, D., Passador, M. (2022). 'From "Best Friends" to "Best Execution": Rethinking Cross-border Payments', 8 *Journal of Business Law* 682–709. Link: [SSRN](#).
- (42) Zetsche, D., Buckley, R., Arner, D., Nyman, J., Ramos, L., Moling, J. (2022). 'Roadmap for Inclusive Green Finance (IGF) Implementation' (Special Report submitted to the Alliance for Financial Inclusion (AFI) 1-9. Link: [SSRN](#).



GreenTech



A printed edition of the Green technology and regulatory settings in Australia: an overview and discussion paper, by GreenTech co-stream lead, Zsófia Korosy.

The Hub's Greentech stream explores the implications of the fact that green technology offers the tantalising possibility that human ingenuity, through the medium of technological development, may be capable of engineering humanity's way out of environmental crisis. But the embrace of technological solutions – especially to the problems posed by climate change – cannot be undertaken uncritically. The stream's discussion paper, prepared with the support of both the UNSW Allens Hub for Technology, Law and Innovation and the UNSW Sustainable Development Reform Hub, proposes a principles-based approach to the regulation of green technology in Australia: one capable not only of understanding the applications of that technology, but also its social context. It covers electric vehicles, hydrogen production and use, renewable energy storage and waste to energy. The report draws out common lessons for sustainability, regulation and justice. It is oriented around three guiding principles: energy justice; just access to space and mobility; and the necessity to respect the Earth's ecological limits.

- (43) Korosy, Z. (2022). Green technology and regulatory settings in Australia: an overview and discussion paper. UNSW Allens Hub. <https://allenshub.unsw.edu.au/index.php/news/announcing-release-green-technology-and-regulatory-settings-australia-overview-and-discussion>

Hybrid Life and Legal Personhood

Marc De Leeuw completed a book *Biolegality: A Critical Intervention* (Palgrave MacMillan). Book was aimed to be published in 2022, but responding to reviews and adding an extra chapter took longer as expected. Book will now appear in 2023. The Biolegality book series which I edit published *The Viral Politics of Covid-19* (Ed. Miguel Vatter & Vanessa Lemm), I wrote a Preface. Two book launches were held in Oxford and Melbourne. Published an article on law and bioscience in top journal *Annual Review of Anthropology*, an article (After Dobbs: Biolegality and Fetal Personhood) on the Dobbs v Jackson decision for the newsletter of the fall Newsletter of the Institute for Advanced Studies, and an article on the new NSW Voluntary Assisted Dying law. More topical work on Hybrid Life and IA is planned for 2023, in particular an international workshop and publication of a Glossary. Simon Taylor moved to the ANU in mid-2022. Simon is finishing up his PhD work, but also wrote two papers on optimisation of AI through agriculture (*Species Ex Machina: how a 'cattle crush' shapes identification, computer vision and AI* & *Species Ex Machina: how agriculture shapes the optimisation of AI system*), and is working on a paper on the development of AI biometrics in India.

- (44) De Leeuw, M., Van Wichelen, S. (2022). Biolegality: How law and biology impact sociality Annual Review of Anthropology, Volume 51: 383-399. <https://doi.org/10.1146/annurev-anthro-041520-102305>
- (45) De Leeuw, M. (2022). After Dobbs: *Biolegalities of Fetal Personhood*, IAS Newsletter Fall 2022
- (46) (Series Editor) Vatter, M., Lemm, V. (2022). [The Viral Politics of Covid-19](#), Palgrave MacMillan. Preface by De Leeuw, M., Van Wichelen, S.

Right to Repair



A photo of the live repair demonstrations delivered as part of the Right to Repair Workshop, held at the Michael Crouch Innovation Centre (MCIC) for International Repair Day 2022.

In recent years debate concerning the right to repair has emerged as a critical issue at the interface between law, technology and society. While research in this stream has recently commenced, current and in-progress outputs address the intersections between repair practices in specific contexts and the wider legal and regulatory debate concerning the need to reflect rights to repair in contemporary intellectual property and consumer law. Current work in this space has focused specifically on repair practices engaged in the off-grid solar market, with future outputs focused wider right to repair issues.

- (47) Kearnes, M., Manwaring, K., Morgan, B., Munro, P., Pala, R., and Samarakoon, S. 2021. What does a right to repair tell us about our relationships with technology? <https://sway.office.com/UcxPwfO63l48kZLI?ref=Link>
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- (52) Samarakoon, S., Munro, P., Zalengera, C., and Kearnes, M. 2022: The afterlives of off-grid solar: The dynamics of repair and e-waste in Malawi. *Environmental Innovation and Societal Transitions* 42: 317-30.



Technologies of Legislation



Attendees of the July 2022, Rules as Code event, led by Technologies of Legislation Stream Lead, Lisa Burton Crawford.

I was able to make substantial progress on the aims of this stream, completing extensive research on legislative complexity that will underpin the work on rules as code, and rules as code itself. I have built strong networks with uDASH and national and international rules as code experts which amongst other things, highlighted the role of the Hub. I had planned to use more of the funds allocated for the collaborative work with uDASH but drew on other funds with a longer expiry date for this purpose.

Miscellaneous

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- (54) Bednarz, Z., & Manwaring, K. (2022). Insurers' Access to Insureds' External Data And AI-Powered Analytics: the Challenges for Regulation of Consumer Insurance. In Abel Veiga Copo (Ed.), *Seguro De Personas E Inteligencia Artificial (Personal Insurance and Artificial Intelligence)*. Navarra, Spain: Civitas.
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- (65) George, A. (2022). Will AI Invent the Next Generation of Patentable Inventions?. *Australian Law Journal*, 15-18.
- (66) George, A., Walsh, T. (2022). 'Artificial Intelligence is breaking patent law', 605 *Nature* pp616-618. <https://www.nature.com/articles/d41586-022-01391-x>
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- (68) Johns, F. (2022). International Law and the Provocations of the Digital: The 2021 Annual Kirby Lecture in International Law. *Australian Year Book of International Law*, 40, 3-22.
- (69) Johns, F. (2022). State changes: Prototypical governance figured and prefigured. *Law and Critique: journal of critical legal studies*. doi:[10.1007/s10978-022-09329-y](https://doi.org/10.1007/s10978-022-09329-y)
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- (73) Manwaring, K. (2022). Paradox or Pressure? Consumer Expectations and the Australian Privacy Act. *Global Privacy Law Review*, 3(3), 118-126.
- (74) Wobcke, W., Compton, C., Johns, F., Lamchek, J., & Mariyah, S. (2022). Nowcasting for Hunger Relief: A Study of Promise and Perils. *Information Technology for Development*.
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- (77) Zalnieriute, M. (2022). Data Transfers after Schrems II: The EU – US Disagreements over Data Privacy and National Security. *Vanderbilt Journal of Transnational Law*, 55(1), 1-48. Retrieved from https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3826878
- (78) Zalnieriute, M. (2022, July 4). Power and Protest: Facial Recognition Technology and Public Space Surveillance. In *iCON Annual Conference*. Wraclaw, Poland.

- (79) Zalnieriute, M. (2022, June 1). The Rule of Law and Facial Recognition Technology. In 9th Biennial Surveillance & Society Conference of the Surveillance Studies Network, Rotterdam, The Netherlands.

**This 2021 publication was not listed in the 2021 Annual Report.

Hub member grants

- Monika Zalnieriute, ARC Centre of Excellence 'Automated Decision-Making and Society' Seed Funding, 'Prioritising Women's Safety: Intersections of Automation, Systems Abuse and Domestic Violence' (L. Sleep, K. Albury, R. Gillet, M. Zalnieriute, S. Wilcock) (2021-2022)
- Lyria Bennett Moses, Monika Zalnieriute, Michael Legg, Felicity Bell, Australasian Institute of Judicial Administration, 'AI and Judicial Decision-Making' (awarded 2022 for work in 2023), \$12,500
- Monika Zalnieriute, ARC DECRA, 'AI Decision-Making, Data Privacy and Discrimination Laws' (2021-2024), awarded \$426,530
- Kayleen Manwaring, UNSW Allens Hub Senior Research Fellowship 2023 (75% teaching buyout)
- Kayleen Manwaring, Rob Nicholls, Tyrone Berger, Susanne Lloyd-Jones, Complex Regimes, Cyber Security CRC, \$39,674
- Kayleen Manwaring, attendance at George Mason University Antonin Scalia Law School Law & Economics Center: Workshop for Law Professors on Information, Advertising, Privacy, and Data Security (Amelia Is, Florida, US) (funded by the LEC: Accommodation meals for 4 days plus usd1000 honorarium)
- Bronwen Morgan and Matt Kearnes, Sustainable Development Law Reform Hub 2022 – supported industry roundtables for Cooperative Platform Economies and Regenerative Cities stream, \$20,000.
- Lyria Bennett Moses and Janina Boughey, Informal Release, Information and Privacy Commission NSW, \$29,000
- Cyber Security CRC projects:
 - Lyria Bennett Moses, 2.5 Law and Policy theme co-lead, \$450,000 (2021-2024), which supports Susanne Lloyd Jones' research fellowship.
 - Lyria Bennett Moses and Shiri Krebs (Deakin), Data 'sharing': Clarity in Contracting, \$10,000 (2021-2022)
 - Lyria Bennett Moses and others, Supply chain uplift for SMEs, \$37,500 (2021-2022)
 - Susanne Lloyd-Jones, Sophie Vivian, Seed funding granted by the CSCRC to complete the journal article and prepare for invited CISCO Global offsite presentation, 2022, \$10,000.
 - Honours projects (2 x \$10,700 in 2022)
-

Hub Submissions 2022 (including joint submissions)

- (1) Zalnieriute, M. and Cutts, T. (2022). How AI and New Technologies Reinforce Systemic Racism, Submission to the Study on Patterns, Policies and Processes Leading Racial Discrimination and on Advancing Racial Justice and Equality for the 54th Session of the United Nations Human Rights Council.



- (2) Zalnieriute, M. (2022). Enhancing Intersectionality in Judicial Interpretation, Submission to the Study on Patterns, Policies and Processes Leading Racial Discrimination and on Advancing Racial Justice and Equality for the 54th Session of the United Nations Human Rights Council.
- (3) Manwaring, K. (2022). UNSW Allens Hub Submission on ACCC Digital Platform Services Inquiry – Discussion Paper released for the fifth report. <https://allenshub.unsw.edu.au/news/submission-acc-digital-platform-services-inquiry-discussion-paper-released-fifth-report>
- (4) Bennett Moses, L., Adamson, G., Bednarz, Z., Didenko, A., Krebs, S., Manwaring, K., & Taylor, S. (2022). Submission on the Privacy Act Review Discussion Paper (October 2021). <https://allenshub.unsw.edu.au/sites/default/files/inline-files/20220110%20Submission%20to%20AGD%20regarding%20Privacy%20Act%20Review%20Discussion%20Paper.pdf>
- (5) Bennett Moses, L., Lloyd-Jones, S., & Manwaring, K. (2022). Submission to PJCIS on Security Legislation Amendment (Critical Infrastructure Protection) Bill 2022. <https://allenshub.unsw.edu.au/index.php/news/submission-exposure-draft-security-legislation-amendment-critical-infrastructure-protection>
- (6) Bennett Moses, L., Lloyd-Jones, S., & Manwaring, K. (2022). Submission to Home Affairs on Exposure Draft Security Legislation Amendment (Critical Infrastructure Protection) Bill 2022. <https://allenshub.unsw.edu.au/index.php/news/submission-exposure-draft-security-legislation-amendment-critical-infrastructure-protection> 20220201
- (7) Bennett Moses, L., Manwaring, K., Lloyd-Jones, S., Krebs, S. (2022). Submission on Electronic Surveillance Framework Discussion Paper. <https://allenshub.unsw.edu.au/index.php/news/submission-electronic-surveillance-framework-discussion-paper>
- (8) Bennett Moses, L. Manwaring, K., Lloyd-Jones, S. (2022). Submission on the Intelligence and Security on the Security Legislation (Critical Infrastructure Protection) Bill, to the Parliamentary Joint Committee <https://allenshub.unsw.edu.au/news/submission-security-legislation-amendment-critical-infrastructure-protection-bill-2022-0>
- (9) [Parlia Committee]Manwaring, K. (2022). Submission on ACCC Digital Platform Services Inquiry - Discussion Paper released for the fifth report. <https://allenshub.unsw.edu.au/index.php/news/submission-acc-digital-platform-services-inquiry-discussion-paper-released-fifth-report>
- (10) Bell, F., Bennett Moses, L., Boughey, J., Rogers, J., Taylor, S. M. (2022). Submission on Positioning Australia as a Leader in Digital Economy Regulation: Automated Decision Making and AI Regulation Issues Paper. <https://allenshub.unsw.edu.au/index.php/news/submission-pmc-re-positioning-australia-leader-digital-economy-regulation-automated-decision>
- (11) Bennett Moses, L., Didenko, A., Fan, Y., Land, L., Lloyd-Jones, S., Nicholls, R., Ruj, S. (2022). Submission on National Data Security Action Plan Discussion Paper. <https://www.homeaffairs.gov.au/reports-and-pubs/files/national-data-security-action-plan/the-university-of-nsw-allens-hub.pdf>
- (12) Bennett Moses, L., Vines, P. (2022). Submission on a nationally consistent scheme for access to digital records upon death or loss of decision-making capacity. <https://allenshub.unsw.edu.au/news/submission-nationally-consistent-scheme-access-digital-records-upon-death-or-loss-decision>

- (13) Dahdal, A., Arner, D., Truby, J., Buckley, R., G Walker, G. (2022). 'Submission to the Communications Regulatory Authority (CRA) of Qatar on the National Blockchain Blueprint for Qatar'. Submission to the CRA of Qatar.
- (14) Buckley, R., Jevglevskaja, N. (May 2022) 'Submission to the Review of the Consumer Data Right on How Australia Might Best Retain Its Global Lead in Consumer Data Sharing'. Submission to the Statutory Review of the Consumer Data Right. https://treasury.gov.au/sites/default/files/2022-09/c2022-314513-buckley_ross_p-jevglevskaja_natalia.pdf



Financial Management Report



THE ALLENS HUB
FOR TECHNOLOGY, LAW & INNOVATION

Management Report			
YTD For December 2022			
	Note	2022	2021
REVENUE		\$	\$
Sponsorship (Allens)		287,739	276,788
Interest		1,398	(96)
Transfers from Holding Project			
UNSW Law Contribution			
UNSW G&T Contribution			
TOTAL REVENUE		289,137	276,692
EXPENSE			
People Costs		225,531	72,896
Scholarship Expenses		-	
Contract & Consulting Services		6,668	
Entertainment		200	
Marketing		1,649	
Overheads		-	
Repairs and Maintenance		-	
Consumables		143	1,364
Travel		7,433	
Equipment Non capitalised			
Other Expenses		206	400
Stream Funding		43,988	41,206
Internal Expense		6,574	
TOTAL EXPENSE		292,393	115,866
Operating result for the period		(3,256)	160,826
Carried Forward Balance		311,080	150,254
Less Outstanding Debtors			
Retained Funds Surplus/(Deficit)		307,824	311,080

Notes to Statement

Certified correct to Ledger:
03.02.23

Anna Polykarpou
Finance Manager
UNSW Business and UNSW Law & Justice



Appendix

Steering committee 2022

- **Aaron Quigley** - Deputy Dean (Education) of the Faculty of Engineering and Head of the School of Computer Science and Engineering at UNSW
- **Gavin Smith** – Allens partner
- **Justine Nolan** - Director, Australian Human Rights Institute, UNSW Law & Justice
- **Linda Buono** - Head of Member Insights & Engagement, The Law Society of NSW
- **Lyria Bennett Moses** – Director of the Allens Hub, for Technology, Law and Innovation
- **Michael Legg** – Director of the FLIP Stream

Advisory board 2022

- **Andrew Lynch** - Dean Faculty of Law & Justice, UNSW
- **Jacqui Downes** - Partner, Allens (joined mid-2021 following retirement of Allens partner Gavin Smith)
- **Janet Chan** - Emeritus Professor, UNSW Law & Justice
- **Jed Horner** - Head of Government Relations & Advocacy, Stone & Chalk/AustCyber
- **Joanne van der Plaats** – President of the Law Society of New South Wales
- **Jonathan Hatch** - Senior Adviser, Innovation Hub, ASIC
- **Jonathan Horan** - Partner, Linklaters
- **Kate Jordan** – General Counsel and Executive General Manager – Company Secretariat, Risk, Governance & Compliance at Origin Energy
- **Katrina Johnson** - General Counsel, WiseTech Global
- **Lyria Bennett Moses** - Director, Allens Hub for Technology, Law and Innovation
- **Marina Yastreboff** – President, Australian Society for Computers and Law
- **Michael Legg** - Flip Stream Director, UNSW
- **Michael Pattison** – CEO and Founder of Contract Probe
- **Stephen Burley** - Honourable Justice, Federal Court
- **Tomoyuki Hachigo** – Co-Founder of SprintLaw



FLIP Stream Publications and Presentations List



LAW SOCIETY OF NSW FUTURE OF LAW AND INNOVATION IN THE PROFESSION (FLIP) RESEARCH STREAM AT UNSW FACULTY OF LAW & JUSTICE

PUBLICATIONS AND PRESENTATIONS 2018-2022 (AS AT 2 DECEMBER 2022)

Overview

Books	2
Book Chapters	6
Refereed Journal Articles	18
Primers and Reports	9
Professional and Other Publications	22
Conferences and Presentations	46

Highlights

- Publications and presentations on the impact of artificial intelligence on the legal profession, with a particular focus on the role of legal ethics as both an enabler of AI adoption, but also as a protection against harmful use of AI.
- Publications on new areas of legal practice that had not been subject to rigorous, scholarly investigation before, such as legal project management, change leadership in the law, legal design, and hybrid work arrangements.
- Leading research on the use of online hearings published in the *Federal Law Review*, *UNSW Law Journal*, *Public Law Review*, *Civil Justice Quarterly*, and *International Journal on Online Dispute Resolution*.
- Much of the research is based on original, empirical data from interviews and surveys with members of the legal profession and judiciary.

LAW SOCIETY OF NSW FUTURE OF LAW AND INNOVATION IN THE PROFESSION (FLIP) RESEARCH STREAM AT UNSW FACULTY OF LAW & JUSTICE



PUBLICATIONS AND PRESENTATIONS 2018-2022

Books

2020

- Legg, Michael and Felicity Bell, *Artificial Intelligence and the Legal Profession* (Hart Publishing, 2020).
- Legg, Michael, Prue Vines and Janet Chan, (eds), *The Impact of Technology and Innovation on the Well-Being of the Legal Profession* (Intersentia, 2020).

Chapters in Books

2021

- Zalnieriute, Monika and Felicity Bell, 'Technology and the Judicial Role' in Gabrielle Appleby and Andrew Lynch (ed), *The Judge, the Judiciary and the Court Individual, Collegial and Institutional Judicial Dynamics in Australia* (Cambridge University Press, 2021) 116-142
<<http://dx.doi.org/10.1017/9781108859332>>

2020

- Legg, Michael, Prue Vines and Janet Chan, 'The Changing Field of Lawyering and Its Impact on Practice and Wellbeing' in Michael Legg, Prue Vines and Janet Chan (eds), *The Impact of Technology and Innovation on the Well-Being of the Legal Profession* (Intersentia, 2020).
- Legg, Michael and Justine Rogers, 'Lawyers' Fee Arrangements and their Wellbeing' in Michael Legg, Prue Vines and Janet Chan (eds), *The Impact of Technology and Innovation on the Well-Being of the Legal Profession* (Intersentia, 2020).
- Bell, Felicity, Justine Rogers and Michael Legg, 'Artificial Intelligence and Lawyer Wellbeing' in Michael Legg, Prue Vines and Janet Chan (eds), *The Impact of Technology and Innovation on the Well-Being of the Legal Profession* (Intersentia, 2020).

2019

- Bell, Felicity, Justine Rogers and Michael Legg, 'Lawyers' Wellbeing in the (Robotic) Face of Technological Change' in Judith Marychurch and Adiva Sifris (eds), *Wellness for Law: Making Wellness Core Business* (LexisNexis, 2019).

2018

- Legg, Michael, 'New Skills for New Lawyers: Responding to Technology and Practice Developments' in Kevin Lindgren, François Kunc and Michael Coper, *The Future of Australian Legal Education* (Thomson Reuters, 2018).

Refereed Journal Articles

2022

- Bell, Felicity and Justine Rogers, 'Fit and Proper' Coders? How Might Legal Service Delivery by Non-Lawyers be Regulated?' (2022) 24(2) *Legal Ethics* 1-30
<<http://dx.doi.org/10.1080/1460728x.2022.2049522>>
- Bell, Felicity and Michael Legg, 'Judging During the COVID-19 Pandemic – The Australian Federal Courts' Experience (2022) 41 (3) *Civil Justice Quarterly* 242.



- Bell, Felicity and Michael Legg, 'In-House Counsel, the Adoption of Artificial Intelligence, and Legal Ethics' (2022) 17(2) *Indian Journal of Law & Technology* 1.
- Rogers, Justine and Felicity Bell, 'Transforming the Legal Profession: An Interview Study of Change Managers in Law' (2022) 42(3) *Legal Studies* 446 <<http://dx.doi.org/10.1017/lst.2021.43>>
- Legg, Michael, Anthony Song, Lyria Bennett Moses and Richard Buckland, 'Open Justice During a Pandemic – The Role and Risks of Remote Hearings' (2022) 33(2) *Public Law Review* 143-162.
- Vines, Prue, Anthony Song, Matthew Priestley and Elias Aboutanios, 'Predicting Bearing Fault in the Drone Freight Industry: Legal Liability in Australia' (2022) 87(2) *Journal of Air Law and Commerce* 299-372 <<http://dx.doi.org/10.25172/jalc.87.2.4>>

2021

- Rogers, Justine, Peter Dombkins and Felicity Bell, 'Legal Project Management: Projectifying the Legal Profession' (2021) 3(2) *Law, Technology and Humans* 133-157 <<http://dx.doi.org/10.5204/lthj.1610>>
- Bell, Felicity, Michael Legg, Joe McIntyre & Anna Olijnyk, 'The Use of Technology (and Other Measures) to Increase Court Capacity - A View from Australia' (2021) 8(2) *International Journal on Online Dispute Resolution* 102.
- Bell, Felicity, 'Part of the Future': Family Law, Children's Interests and Remote Proceedings in Australia during COVID-19' (2021) 40(1) *The University of Queensland Law Journal* 1.
- Legg, Michael and Anthony Song, 'The Courts, the Remote Hearing and the Pandemic: From Action to Reflection' (2021) 44(1) *UNSW Law Journal* 126.
- Legg, Michael 'The COVID-19 Pandemic, the Courts and Online Hearings: Maintaining Open Justice, Procedural Fairness and Impartiality' (2021) 49(2) *Federal Law Review* 161.

2020

- Legg, Michael, 'The COVID-19 Pandemic and Courts as Essential Services' (2020) 94(7) *Australian Law Journal* 479.
- Legg, Michael and Anthony Song, 'Commercial Litigation and COVID-19 – the Role and Limits of Technology' (2020) 48(2) *Australian Business Law Review* 159.
- Bell, Felicity and Michael Legg, 'Lawyers and the Black Box of Technology' (2020) 94(2) *Australian Law Journal* 107.

2019

- Rogers, Justine and Felicity Bell, 'The Ethical AI Lawyer: What is Required of Lawyers When They Use Automated Systems?' (2019) 1 *Law, Technology and Humans* 80-99 <<http://dx.doi.org/10.5204/lthj.v1i0.1324>>
- Legg, Michael and Felicity Bell, 'Artificial Intelligence and the Legal Profession: Becoming The AI-Enhanced Lawyer' (2019) 38(2) *The University of Tasmania Law Review* 34.
- Caruso, David, Michael Legg and Jordan Phoustanis, 'The Automation Paradox in Litigation: The Inadequacy of Procedure and Evidence Law to Manage Electronic Evidence Generated by the Internet of Things in Civil Disputes' (2019) 19 *Macquarie Law Journal* 157.
- Bell, Felicity, 'Family Law, Access to Justice, and Automation' (2019) 19 *Macquarie Law Journal* 103.



Primers and Reports

2022

- Bell, Felicity, Lyria Bennett Moses, Michael Legg, Jake Silove and Monika Zalnieriute, *AI Decision-Making and the Courts: A Guide for Judges, Tribunal Members and Court Administrators* (The Australasian Institute of Judicial Administration Inc., Report, June 2022).
- Rogers, Justine, Tony Song and Felicity Bell, *Building Trust, Lawyers' Relationships with Clients and Colleagues Online: A Primer* (UNSW Law FLIP Stream, 2022).

2021

- Nehme, Marina and Felicity Bell, *The Future of Legal Service Delivery, Sources of Innovation in the Legal Profession: A Primer* (UNSW Law FLIP Stream, 2021).
- Bell, Felicity, Michael Legg and James Metzger, *Survey of New South Wales' Courts: Judicial Views of Remote Proceedings - Summary of Findings* (UNSW Law FLIP Stream, 2021).
- Bell, Felicity and Michael Legg, *Survey of Federal Courts: Judicial Views of Remote Proceedings - Summary of Findings* (UNSW Law FLIP Stream, 2021).

2020

- Bell, Felicity, *The Sustainability of Law and Lawyers, Legal Design: A Primer* (UNSW Law FLIP Stream, 2020).
- Legg, Michael, *The Sustainability of Law and Lawyers, The Future of Legal Costs and Legal Fees – Time Based Billing and Alternative Fee Arrangements: A Primer* (UNSW Law FLIP Stream, 2020).

2019

- Rogers, Justine and Felicity Bell, *Change Leadership for Lawyers: A Primer* (UNSW Law FLIP Stream, 2019).

2018

- Legg, Michael and Felicity Bell, *Artificial Intelligence and the Legal Profession: A Primer* (UNSW Law FLIP Stream, 2018).

Professional and Other Publications (including podcasts)

2022

- Rogers, Justine and Anthony Song, 2022, 'Building Trust Part 2: Establishing Trust in Online and Hybrid Team Settings' *Law Society Journal* (online, 9 December 2022).
- Rogers, Justine and Anthony Song, 'Building Trust Pt 1: Relationships with Clients Online' (2022) *Law Society Journal* (online, 11 November 2022).
- Song, Anthony and Seena Serram, 'Five Innovation Technology Tools for Small Practices' (2022) *Law Society Journal* (online, 2 September 2022).
- Rogers, Justine and Felicity Bell, 'Change Leadership in Law' *Lawyers Weekly Podcast* (29 July 2022).
- Bell, Felicity and Justine Rogers, 'Regulating LegalTech: Should We, and If So, How?' (2022) *Law Society Journal* (online, 8 July 2022).



- Legg, Michael and Felicity Bell, 'Artificial Intelligence and Solicitors' Ethical Duties' (2022) 85 *Law Society of NSW Journal* 78.

2021

- Legg, Michael and Eryn Newman, 'Evaluating Witnesses in An Online Court' (2021) 84 *Law Society Journal* 70.
- Legg, Michael, 'Lawyers Working from Home: A Technological and Social Experiment' (2021) 2 *Juriste* 46.
- Legg, Michael, 'How to Future Proof Your Firm with Effective Alternative Fee Arrangements' (2021) 76 *Law Society Journal* 79.
- Legg, Michael, 'The Pros and Cons of Different Types of Fee Arrangements' (2021) 74 *Law Society Journal* 82.
- Legg, Michael, Anthony Song, Lyria Bennett Moses, and Richard Buckland, Submission No 46 to New South Wales Law Reform Commission, *Open Justice: Court and Tribunal Information: Access, Disclosure and Publication* (2 August 2021).
- Rogers, Justine and Peter Dombkins, 'Balancing Legal Project Management with Lawyers' Professional Obligations' (2021) 81 *Law Society Journal* 68.
- Rogers, Justine and Peter Dombkins, 'Legal Project Management: Projectifying the Legal Profession', *The Legal Ops* (19 May 2021) <<https://www.legalops.fm/home/legal-project-management-projectifying-thelegal-profession>>

2020

- Legg, Michael, 'How Will the Legal Profession Be Structured in The Future?' *Lawyers Weekly* (online, 7 December 2020).
- Legg, Michael, 'OK Zoomer: The Impacts and Future of Working from Home' (2020) 73 *Law Society Journal* 77.
- Legg, Michael and Catrina Chen, 'The "Kill Bill" Movement and Alternative Fee Arrangements' (2020) 72 *Law Society Journal* 70.
- Legg, Michael and Anthony Song, 'The Courts and The Pandemic: The Role and Limits of Technology' (2020) 66 *Law Society Journal* 65.
- Legg, Michael, 'Victoria Set to Allow Lawyers to Take Percentage of Class Action Damages' (2020) 64 *Law Society Journal* 84.

2019

- Rogers, Justine and Felicity Bell, 'Change Leadership for a Dynamic Profession' (2019) 60 *Law Society Journal* 88.
- Song, Anthony, "'Best Practice' Change Strategies to Transform Your Firm' (2019) *Lawyers Weekly* (online, 1 September 2019).

2018

- Legg, Michael, 'Recognising a New Form of Legal Practice – Limited Scope Services' (2018) 50 *Law Society Journal* 74.

- Legg and Bell, “Insourcing – Implications for In-House Counsel and Private Practice Lawyers” (2018) 45 *Law Society Journal* 70.

Conferences and Presentations

2022

- Song, Tony, ‘Passion Project: Crypto and The Legal Profession (Are Smart Legal Contracts the Future?)’ (UNSW EDGE Webinar, 8 December 2022).
- Song, Tony and Jason Grant Allen, ‘Stablecoins: A Monetary Taxonomy’ (NCKU The 3rd International Trends and Prospects Forum of FinTech, RegTech and Sustainable Finance, 4 November 2022).
- Legg, Michael, E-Seminar: Artificial Intelligence: predictive justice and court management; AI Decision-Making and the Courts (Justice Administration Research Association, 3 November 2022).
- Legg, Michael, Stuart Hall, Andrea Beckman, Julian Lee and Craig Macauley, ‘What’s Next at the Intersection of AI and e-Discovery’ (Relativity Conference, Spotlight: ANZ, 13 September 2022).
- Song, Tony ‘The Dark Forest of Cryptocurrency’ (UNSW UNSOMNIA Talks, 7 September 2022).
- Legg, Michael (chair), Tania Sourdin, Deborah Lockhart, Jeh Coutino, ‘Online Dispute Resolution’ (Law Society of NSW 2022 Conference, 5 September 2022).
- Rogers, Justine (chair), David Armsworth-Maw, Brendon Jenkins, Amanda Alassad-Brun, Michael Bunting, ‘Cultivating Leadership Skills at Every Stage of Your Legal Career’ (Law Society of NSW 2022 Conference, 5 September 2022).
- Rogers, Justine, Michael McNamara, Duncan Young and Randall Kiser, ‘Building Trust after COVID-19: Lawyers’ Relationships with Clients and Colleagues in The Online/Hybrid World’ (Law Society of NSW 2022 Conference, 5 September 2022).
- Song, Tony, Ian Foulds and David Lo, ‘Client Engagement: Building Trust Online’ (Law Society of NSW 2022 Conference, 5 September 2022).
- Song, Tony, Natasha Blycha, Max Parasol and Jessie Buchan, ‘Metaverse’ (Law Society of NSW FLIP Buzzwords Webinar, 31 August 2022).
- Song, Tony and Jason Grant Allen, ‘Stablecoins, Regulation and the Evolution of Money’, (Conference Paper, CIBEL-CCLA Conference – Sustainable Banking and Financial Regulation in Asia: Principles, Practice and Innovation, 31 August 2022).
- van der Plaat, Joanne, Chris D’Aeth, Anne-Marie Rice, Natalie Wade and Michael Legg, ‘eJustice’ (Law Society of NSW FLIP Buzzwords Webinar, 4 May 2022).

2021

- Legg, Michael, ‘Online Justice: An Opportunity to Get Closer to The Litigant?’ (Learning from Abroad – Remote Hearings in Europe and Beyond, Dutch Council for the Judiciary, 11 November 2021).
- Legg, Michael, ‘Legal Regulation in a Changing World’ (2021 Conference of Regulatory Officers (CORO), 8 November 2021).
- McKenzie, John, Michael Legg, Simone Herbert-Lowe, and Peter Leonard, ‘Technological Competency: Data and Algorithm Driven Services, Cyber Risk and AI’ (Law Society of NSW FLIP Conference 2021, 13 October 2021).

- Rogers, Justine, Peter Dombkins and Craig Emery, 'Professional Competency in the Current Climate: Matter Management & Communication' (Law Society of NSW FLIP Conference 2021, 13 October 2021).
- Alstergren CJ, William, Michael Legg, Anne-Marie Rice, Sue Gilchrist and Laura Keily 'Future of Online and Remote Hearings Post Pandemic' (Law Society of NSW FLIP Conference 2021, 13 October 2021).
- Legg, Michael, 'Passion Project: Justice During a Pandemic' (UNSW EDGE Webinar, 5 August 2021).
- Legg, Michael, 'The Future of Legal Fees' (Law Society of NSW FLIP Regional Seminar, Parramatta, 23 April 2021).

2020

- Legg, Michael, 'Working from Home' (Law Society of NSW FLIP Buzzwords Webinar, 9 December 2020).
- Rogers, Justine and Felicity Bell, 'Change Leadership for Small Law Firms' (Live Webcast, Law Society NSW, 1 September 2020).
- Allsop CJ, James, Julie Ward JA, Pauline Wright, Jocelyn Williams, Jessica Der Matossian and Michael Legg, 'COVID –19: The Impacts on Lawyers, Law Schools and the Courts' (Australian Academy of Law, Webinar, 7 July 2020).
- Rogers, Justine and Felicity Bell, 'Change Leadership for Lawyers' Seminar' (Live Webcast, Law Society NSW, 29 April 2020).
- Legg, Michael and Felicity Bell, 'Lawyers as Disruptors' (Law Schools Global League Conference, UNSW, Sydney, 11 February 2020).
- Legg, Michael (judge) (LegalTech Venture Day, UNSW, Sydney, 10 February 2020).
- Legg, Michael 'Artificial Intelligence and Decision Making in Law' (Supreme and Federal Court Judges' Conference 2020, Canberra, 20 January 2020).

2019

- Rogers, Justine, Craig Emery, Milan Gandhi, Cristina Profilio and Michael Tidball, 'Change Management' (Law Society of NSW FLIP Buzzwords Webinar, 3 December 2019).
- Legg, Michael, 'Where is AI Being Used in ODR?' (Taking Justice Online: A Critical Perspectives Workshop, Monash University Law School, Melbourne, 26 November 2019).
- Bell, Felicity and Justine Rogers, 'Regulation for Artificial Intelligence Applications in the Legal Profession' (Panel and Report, World Legal Summit – FLIP Stream Segment, 5 August 2019).
- Rogers, Justine and Felicity Bell, 'Change Leadership for a Dynamic Profession' (Conference Paper, Annual FLIP Conference Presentation, 25 July 2019).
- Rogers, Justine, Peter Dombkins, Denise Doyle, Gina Bozinovski, Mick Sheehy and Elizabeth Espinosa, 'Transformation' (Law Society of NSW FLIP Buzzwords, 29 April 2019).
- Rogers, Justine 'Impact of Technology and Innovation on Professional Skills' (NSW Law Society's Professional Skills Subcommittee, 11 April 2019).
- Bell, Felicity and Michael Legg, 'Artificial Intelligence and the Legal Profession' (FLIP Seminar, Banco Court, Supreme Court of New South Wales, 10 April 2019).

- Legg, Michael, 'The Future of Courts - Disruption Under Law' (FLIP Seminar, Banco Court, Supreme Court of New South Wales, 10 April 2019).
- Rogers, Justine and Felicity Bell, 'Technology, Innovation and Lawyer Wellbeing' (Conference Paper, FLIP Seminar in Banco Court, 10 April 2019).
- Legg, Michael and Felicity Bell, 'AI: Frenemies for Lawyers' (Presentation to JPMorgan APAC Legal Department, Sydney, 6 March 2019).
- Legg, Michael (chair), Mark Adams, Anthony Borgese, Carla Hoorweg and Deborah Young 'RegTech' (Law Society of NSW FLIP Buzzwords Webinar, 27 February 2019).

2018

- Bell, Felicity and Justine Rogers, 'Fit and Proper Algorithms? Should Legal Service Delivery by AI be Regulated?' (Conference Paper, Law and Society Association of Australia and NZ Conference, 13 December 2018).
- Legg, Michael, 'AI and the Legal Profession: Opportunities and Challenges' (Australian Government Solicitors, Sydney, 12 December 2018).
- Bell, Felicity and Justine Rogers, "Fit and Proper Coders": Should Legal Service Delivery by Non-Lawyers be Regulated? (And If So, By Whom?) (Conference Paper, International Legal Ethics Conference VIII, 8 December 2018).
- Rogers, Justine and Peter Dombkins, 'Legal Project Management: Is This a New Form of Legal Professionalism?' (Conference Paper, International Legal Ethics Conference VIII, 8 December 2018).
- Bell, Felicity, Michael Legg and Justine Rogers, 'AI in Legal Practice: Making Work Easier or A New Set of Stressors?' (Wellbeing in a Changing World: The Impact of Technology and Innovation on The Legal Profession, UNSW Sydney, 15 November 2018).
- Legg, Michael and Justine Rogers, 'Could Alternative Fee Agreements Be One of the Answers to Lawyer Distress?' (Wellbeing in a Changing World: The Impact of Technology and Innovation on The Legal Profession, UNSW Sydney, 15 November 2018).
- Rogers, Justine and Peter Dombkins, 'Legal Project Management: The Practical Essentials for All Lawyers' (Law Society of NSW FLIP Conference 2018, Sydney, 14 September 2018).
- Bell, Felicity and Michael Legg, "Artificial Intelligence and the Legal Profession: The AI-Enhanced Lawyer" (Law Society of New South Wales FLIP Conference 2018, Sydney, 14 September 2018).
- Corker, John, Katrina Johnson and Michael Legg, 'Unbundling for Access to Justice and Commercial Law' (Law Society of New South Wales FLIP Conference 2018, Sydney, 14 September 2018).