Responsible AgTech Symposium

Combining science, agriculture and responsible innovation to strengthen Australian farming and land management.

Program – Thursday 27th May 2021

8.30	**Registration + Arrival tea & coffee**
9.00	**Welcome to the Responsible AgTech Symposium** • Welcome to Country by Tribal Experiences and National Reconciliation Week • Introduction by MCs for the day • Purpose of the day: who, why, what by Simon Fielke **Cara Stitzlein,** Cognitive Engineer, User Experience Researcher, CSIRO's Data61 **Martijn Mooij,** Senior UX Designer, CSIRO's Data61
9.20	**The global quest for Responsible digital agricultural innovation** The symposium will begin with six 'power talks' on our knowledge of Responsible Innovation applied to the digitalisation of agriculture. The speakers will present a meta-view on the status of knowledge around the social dimensions of digital agriculture with short videos on their international perspectives. Presenters from the World Bank, Canada, the UK, the Netherlands, as well as closer to home in New Zealand and here in Australia will empower and situate the collective interaction throughout the day. Each talk will be 10 minutes followed by a brief discussion between the audience and our MCs. **Marie-Agnès Jouanjean,** Agricultural Economist, The World Bank, Paris **Laurens Klerkx,** Professor, Knowledge, Technology & Innovation Group, Wageningen University, The Netherlands **Kelly Bronson,** Canada Research Chair (II) in Science and Society, University of Ottawa, Canada **David Rose,** Elizabeth Creak Associate Professor of Agricultural Innovation and Extension, University of Reading, UK **Callum Eastwood,** Senior Scientist, Dairy NZ, New Zealand **Emma Jakku,** Research Scientist, CSIRO, Australia
10.40	**Morning tea**
11.10	**Combining the world of IoT, analytics and machine learning in agriculture and beyond** The agricultural industry is under pressure to deliver an increase in food production in tough environmental and often unpredictable market/trade conditions. AgTech, particularly through IoT, analytics & machine learning should be part of the solution, however connecting precision farming technologies across supply chains – vertically, horizontally, and internationally - is not as easy as one might expect when benefits and costs to the different individuals (both real and perceived) are considered. There are also many lessons the agricultural sector can learn from other industries grappling with and solving similar challenges. This session will examine the opportunities for socio-technical innovation at system and sectoral levels. **Alan Thomson,** Business Development Manager, AgriTech, Hitachi **Tim Wark,** Digital Innovation Director, AECOM

Responsible AgTech Symposium

Combining science, agriculture and responsible innovation to strengthen Australian farming and land management.

11.40	**Panel discussion: Fostering inclusion within agricultural conversations & innovation** One of the key pillars of Responsible Innovation is inclusion. Conversations around land management, farming, food production and sustainability need to reflect the diverse communities they impact, including Traditional Owners of the Land, women and young people. • What does diversity, inclusion and equality look like in the agricultural and land sectors? • What is the role of traditional Indigenous knowledge and how can we best partner and learn with Traditional Owners whilst appropriately valuing their intellectual property? • How can we create experiences that bridge generational gaps? • How can reduce barriers for women to create gender balance within the agricultural and land sectors? **Kate Andrews,** Executive Officer, NRM Regions Australia **Torres Webb,** Cultural Capability Advisory, Office of Chief Scientist, CSIRO *Further panellists to be confirmed*
12.10	**Lunch**
13.10	**Rapid Fire: Overcoming data trust issues in AgTech** For technology to really be effective within the agricultural industry, we need to increase data transparency around access and use as well as an understanding the value of data-driven commercial opportunities alongside benefit flows back to data providers. The challenge starts with a need for more data/digital literacy and ends with trust. Join us to hear how two experts are helping to create trust in data and AgTech products, followed by a short Q&A session. • What does trust in a digital tool/s and related data look like? • What are the key elements that start-ups, vendors and technology companies need to create to engage more meaningfully with farmers and agricultural stakeholders to earn their trust or provide value? • How can we build digital trust across all tech platforms? • Is individual and social trust a prerequisite to trusting technologies? **John Fargher,** Co-founder & Chief Revenue Officer, AgriWebb **Leanne Wiseman**, Professor in Law, Griffith University
13.40	**Panel discussion: What does Responsible Innovation mean in the world of AgTech?** Technologists, researchers & scientists often use the terms Responsible Innovation where challenges around the ethical considerations of our digital futures are aired. However, when it comes to agriculture and its respective technologies, responsibility takes on a different meaning. Or does it? • What is responsibility in an agricultural industry context? • Who is being responsible for whom/what? • What does responsible innovation translate to in practical terms? • Should we have a Charter of Responsible innovation in AgTech? A set of principles that all startups or product developers should adhere to? • Or is it simply an understanding of what is important in everyday practice? **Denise Higgins,** Senior Manager Strategic Planning & Evaluation, Centre for Entrepreneurial Agri-Technology, Australian National University **Gerry Turpin,** Senior Ethnobotanist, Tropical Indigenous Ethnobotany Centre **Roger Butler**, Group Leader, Domain Engineering Group, CSIRO
14.10	**Afternoon tea**

Responsible AgTech Symposium

Combining science, agriculture and responsible innovation to strengthen Australian farming and land management.

14.40	**Fostering a Responsible AgTech ecosystem**
	Innovation ecosystems are complex, and challenging, even more so in the agriculture sector which is built on traditional roots despite decades of technological modernisation. So how does one lead a research and impact agenda with purpose, to not only bring people together for the greater good, but to create responsible innovation that leaves a lasting impact positive impact on Australia and the world?
	Join Andrew & Justine who will have an informal conversation about their journey, learnings and failings as well as provide glimpses into their future missions, to help you lead innovation during uncertain times.
	Andrew Moore, Leader, Digiscape Future Science Platform, CSIRO
	Justine Lacey, Director, Responsible Innovation, Future Science Platform CSIRO
15.10	**Beyond 2041. What will the farm of the future look like?**
	If there is one thing everyone agrees on it's the need for increased yields – more food, more efficiencies and more sustainable processes. All things being equal:
	• How will the promise of technology in agriculture transpire?
	• Can a truly connected agricultural industry really exist?
	• How will drones, robotics, AI, blockchain and IoT revolutionise the industry within the next 20 years?
	Join us for an exercise in speculative design – and a look into the future of agriculture!
	Martijn Mooij, Senior UX Designer, CSIRO's Data61
	Viveka Weiley, Future Digital Worlds Lead, CSIRO's Data61
15.50	**Close**
16.10	**Networking drinks**