







Welcome

Professor Lisa Given, FASSA RMIT University

Director, Social Change Enabling Impact Platform Professor of Information Sciences



Every new technology brings ethical issues, reminding us to disrupt our current mindsets about what society should become





Welcome

Peggy O'Neal AO

Chancellor, RMIT University





Zahra Zainal – Graphic Illustrator

Today we are being joined by a Graphic Recorder to help capture our thinking.

She will be creating live visual representations of many of our sessions over the next two days, which will be available on our website after the event. Watch your email for details!

Auslan Translation

RMIT Guest Wi-Finetwork



Wi-Fi Passcode

471112

Thank you!

The Society 5.0 Ethics Organising Committee would like to thank everyone who supported this event and helped to make it a success, including:

- Enabling Impact Platform Strategic Impact Fund
- ARC Centre of Excellence for Automated Decision-Making and Society
- RMIT Enabling Impact Platforms
- RMIT School of Computing Technologies
- RMIT Research and Innovation Capability
- Utrecht University
- Media

SCAN TO EXPLORE FURTHER



CONTACTS

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Kelly Foo | Email: kelly.foo@rmit.edu.au







Keynote

Society 5.0 Ethics: A Clarion Call for Technology-Disrupted Futures

Professor Annette Markham Utrecht University

Chair Professor of Future Data Literacies and Public Engagement

"Society 5.0 Ethics"

A Clarion Call for Technology-Disrupted Futures

Annette Markham, Ph.D. Chair Professor, Future Data Literacies Utrecht University, the Netherlands



The Initiative:

Convene a series of summit meetings, bringing together thought leaders, technologists, and policy makers from across the globe to shift from abstract principles to best practices for better ethical societal futures



Acknowledging:

RMIT University acknowledges the people of the Woi wurrung and Boon wurrung language groups of the eastern Kulin Nation on whose unceded lands we conduct the business of the University.

RMIT University respectfully acknowledges their Ancestors and Elders, past and present.

RMIT also acknowledges the Traditional Custodians and their Ancestors of the lands and waters across Australia where we conduct our business



Society 5.0 is a broad label for the inseparable interconnection between humans and technologies in the era of rapid digital transformations.

Digital transformations have fostered considerable crises.

Continuous digital disruptions converge with robotics, nanotech, biotech, and various forms of artificial intelligences, heralding transformative changes across the planet, across all sectors, and in all aspects of personal, work, and civic lives.

Society 5.0 Ethics

...as a mindset

Sociality

+
Ethics
+
Futures

... being more society centered



... keeping ethics front and center



... getting ahead of the curve



Will hackers, trolls and AI deepfakes upset the 2024 election?

The Washington Post

DEMOCRACY IN AMERICA

Following Elon Musk's lead, Big Tech is surrendering to disinformation

Facebook and YouTube are receding from their role as watchdogs against conspiracy theories ahead of the 2024 presidential election

By Naomi Nix and Sarah Ellison

≅ POLITICO

Uk gene

Published: 17 May 2024

Are social media, AI and

Indian democracy?

misinformation undermining

Deepfakes, distrust and disinformation: Welcome to the Al election

From phony robocalls to 1 This election year, fighting misinformation breakneck pace—as billi is messier and more important than ever

WØRLD ECONOMIC FORUM The Global Risks Report 2024 named misinformation and disinformation a top risk, which could destabilize society as the legitimacy of election results may be questioned.









How Social Media Will be Weaponized in Bangladesh's **Election**

As Bangladesh preps for its election, social media is overflowing with information - and being weaponized by political parties.

Elections and Disinformation Are Colliding Like Never Before in 2024



CIO JOURNAL

Rise of AI Puts Spotlight on Bias in Algorithms

As use of artificial intelligence becomes more widespread, businesses are still struggling to address pervasive bias PORRES 5 INNOVATION 5 CONTRIBUTE TECH

EDITORS' PICK

I Interviewed ChatGPT About AI Ethics — And It Lied To Me In the era of deep-fake videos, tech companies must not dismantle their ethics teams / Opinion

BY ANDREW FIALA

MARCH 19, 2023 5:30 AM

TECH

From deepfakes to ChatGPT, misinformation thrives with AI advancements: report



By Rachel Gilmore • Global News Posted January 4, 2023 4:59 pm 02-22-23 | CONNECTED WORLD

GPT-powered deepfakes are a 'powder keg'

Dozens of startups are using generative Al to make shiny happy virtual people for fun and profit. Large language models like CPT add a complicated new dimension

Home // Radio // Here & Now

Search Engines Like Google Are Powered By Racist, Misogynist Algorithms, Says MacArthur Fellow Australian commission calls for human rights law to curb AI bias

Mar 10, 2023, 10:55 am EST | Larisa Redins

Securition 30, 2021 To Peter Young of and Allison Hager of



The ethics of Al: The Cyber Risks posed by Chat GPT

DAC Beachcroft



Crypto crash: how a teacher's dream investment turned into a nightmare loss

BUSINESS

2022 was the year crypto came crashing down to Earth nothe cost this year after

DECEMBER 29, 2022 · 5:00 AM ET

NEWS

Crypto's Horrible, No Good, Very Bad Year FTX scam explained: Everything you need to know

Cryptocurrency values rose in 2021 but started to decline in 2022, causing some

FORBES > MONEY > MARKETS

WEB3

The Ethics Of Crypto: Good Intentions And Bad Actors



Professional Ethics & Values

Ethical Failure Led to the FTX Scandal

FTX FIASCO AND THE NEED FOR A CRYPTO REGULATORY FRAMEWORK

December 15, 2022 > India > Cryptocurrency

ecurity Print article

Optus breach was huge, but companies lose our data all the time

Experts say the recent prominence of data breaches is just companies being more forthcoming and the media more focused on reporting them

The AI arms race highlights the urgent need for responsible innovation

Published: March 19, 2023 10.51pm AEDT

▼ Marcel O'Gorman, University of Waterloo

A group of researchers has released a data set on nearly 70,000 users of the online dating site OkCupid. The data dump breaks the cardinal rule of social science research ethics: It took identifiable personal data without permission. May 12, 2016



Vox

https://www.vox.com > 70000-okcupid-users-data-rele...

Researchers just released profile data on 70,000 OkCupid ...

Optus reveals at least 2.1 million ID numbers exposed in massive data breach



Mark Zuckerberg Apologizes For Facebook Data Scandal - TIME

Mar 21, 2018 — The Facebook CEO said he was sorry for the exposure of **data** from 50 million users to Cambridge Analytica in an interview with CNN Thursday.

Medibank data theft: hackers release records they claim are related to mental health and alcohol issues



Annette Markham
Co-initiator and lead
RMIT Professor, Digital culture
and ethics expert



Lisa Given
Co-initiator and lead
RMIT Professor, Information
science and ethics expert



Julian Thomas
Co-initiator
RMIT Professor,
Al and decision-making expert



Karin Verspoor
Co-initiator
RMIT Professor, Artificial
Intelligence and health expert

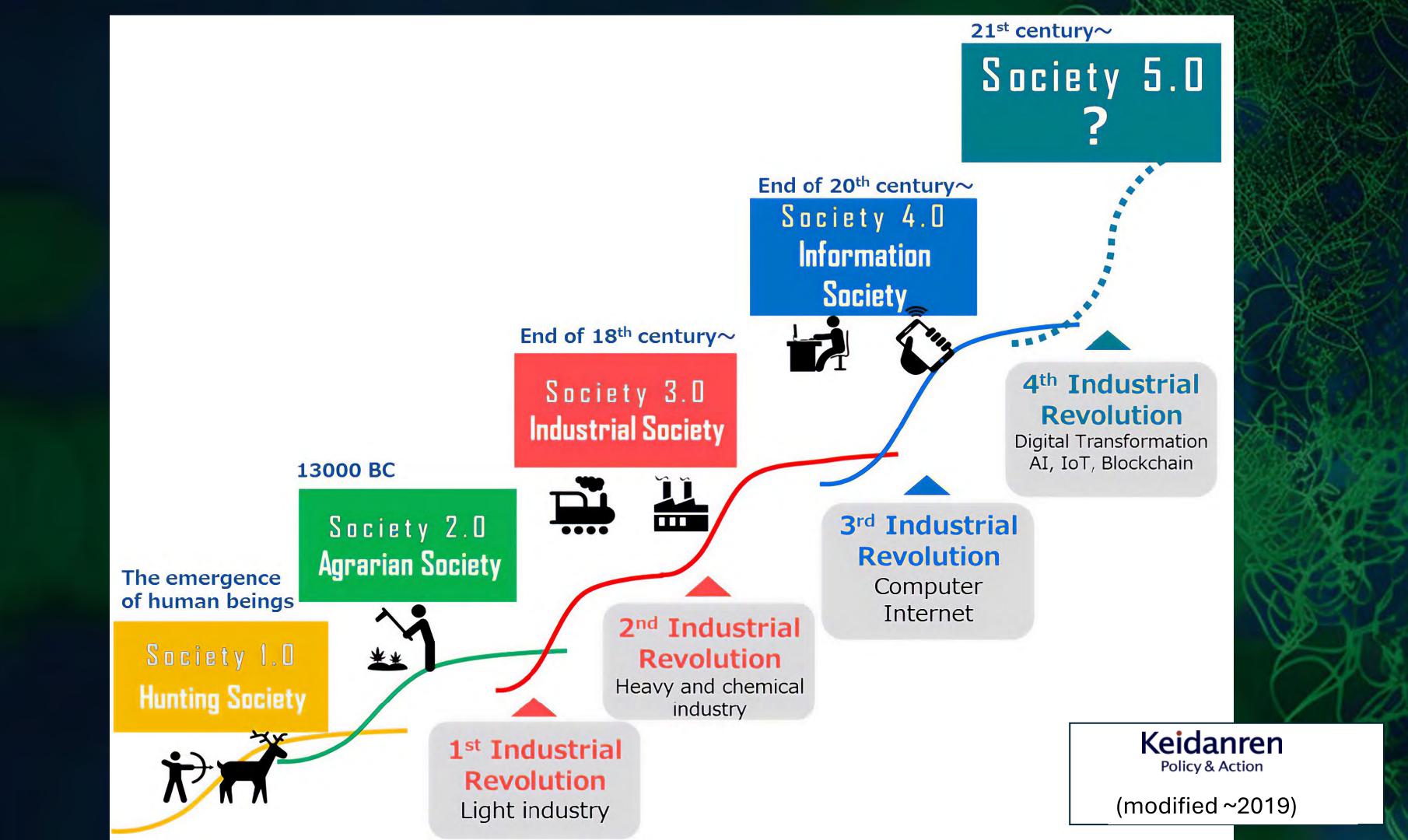


Jason Potts
Co-initiator
RMIT Professor,
blockchain and web3 futures

Society 5.0

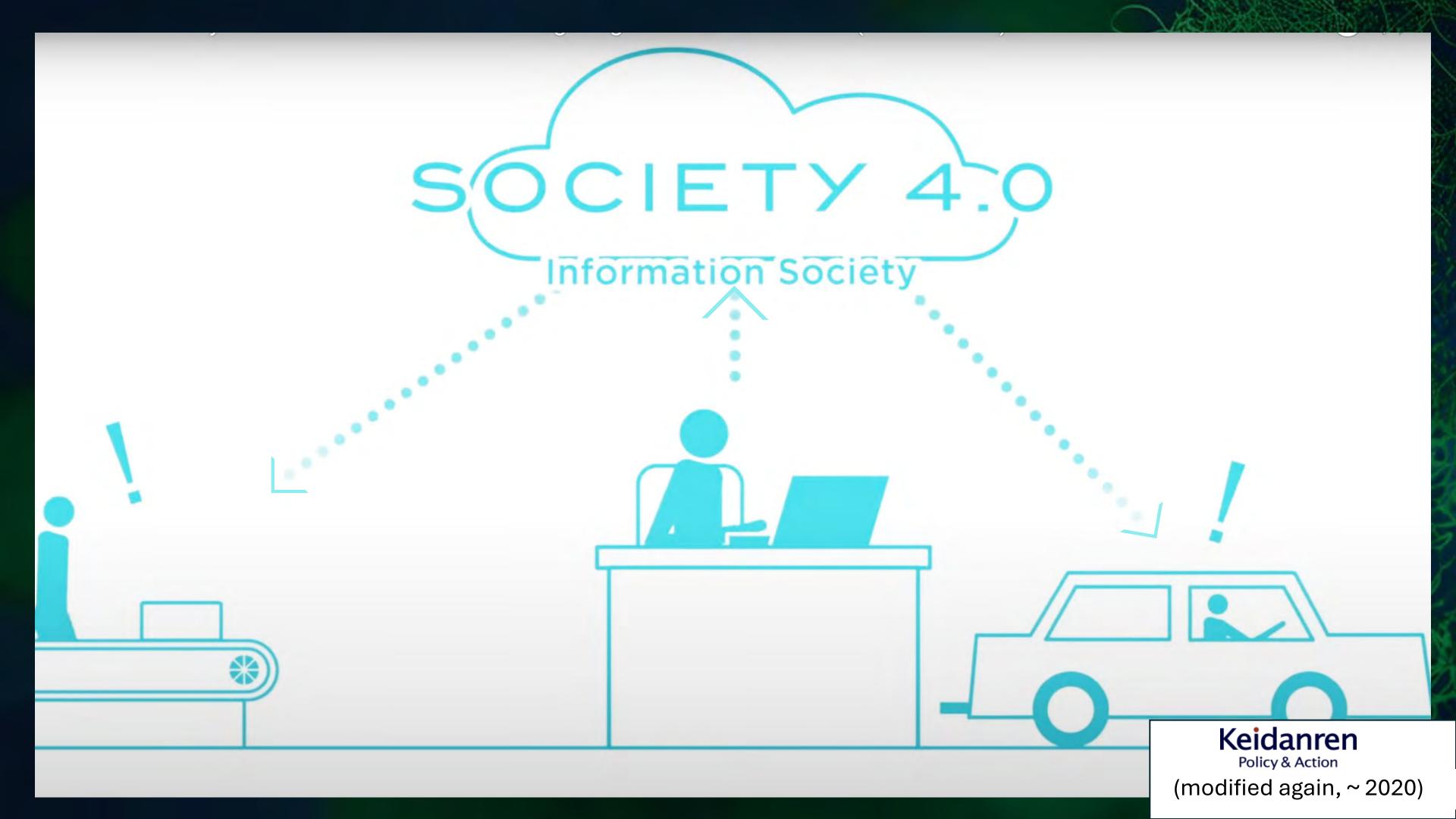
As developed by the Japanese Government: 2016 (Japanese Council for Science, Technology, and Innovation)





How do we get to Society 5.0?

(Still, the Japanese government version, but revised in 2020)





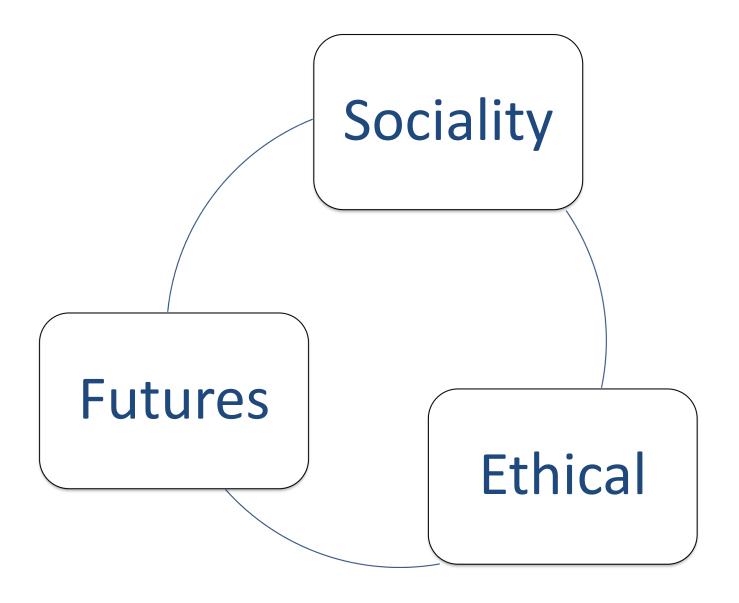


Society 5.0

(The "festival of ideas" version)



as a mindset





Sociality

Focusing on the social

Ethical

Considering 'ethics' as futures we produce







Ethical

Considering 'ethics' as futures we produce



Human Subjects Protection (post WWII)

Feminist Ethics of Care

The Trolley Problem

Error-avoidance
Risk assessment and mitigation
Standardization of research procedures
Focus on what you should *not* do

Community focused and centred Collaborative models for action Proactive mindset of advocacy

Consequence oriented Risk/benefit ratio, weigted values Emphasizes individual ethical decision making

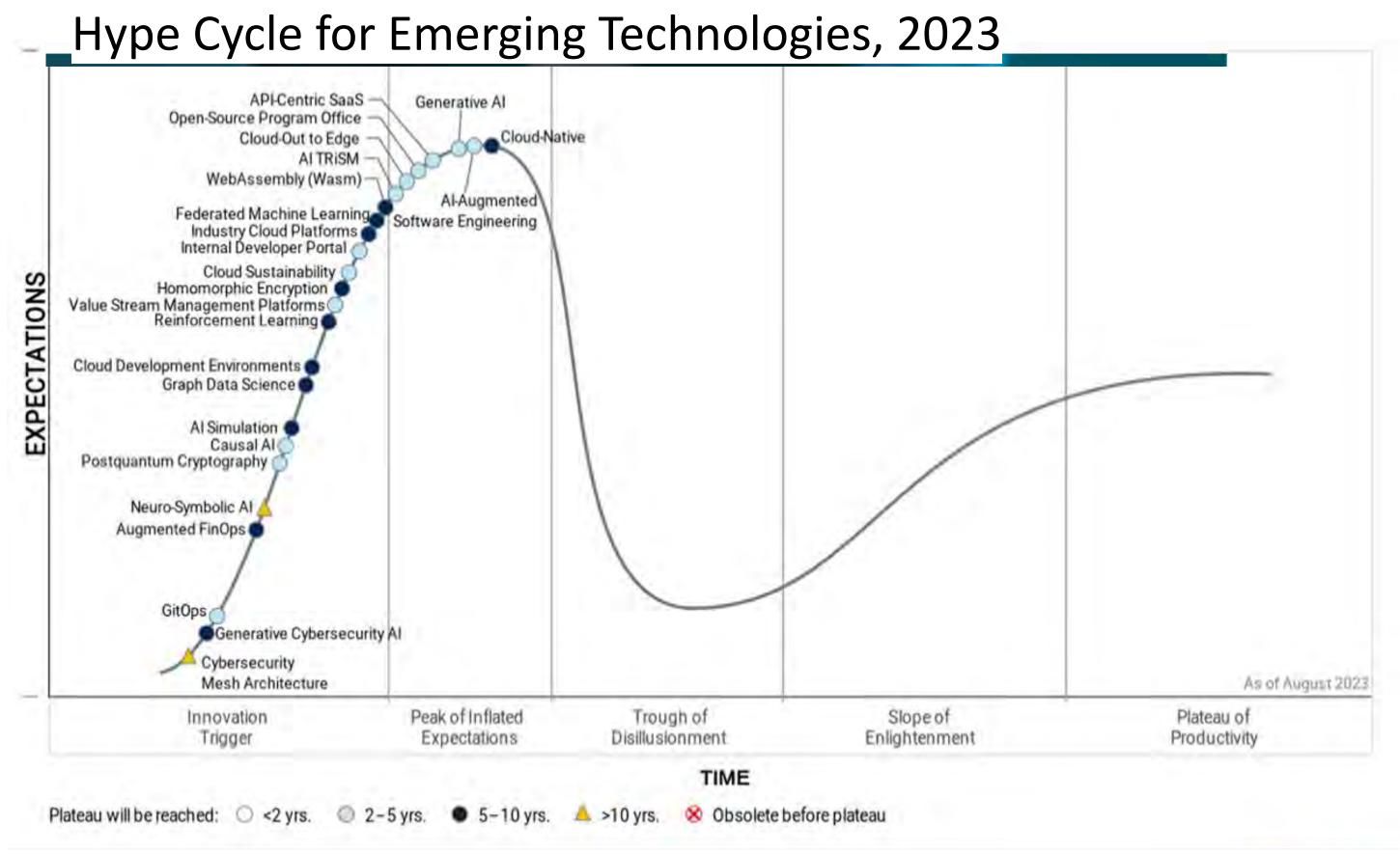


Futures

considering the position of futures ...and thus, futuremaking







The limits of our imaginaries?

With what consequences?

How do we fix it?

People use prior knowledges to create future imaginaries, so they don't think differently

People remain stuck in the trajectories already set (for us) People become responsive, reactive (versus proactive)

Play with speculative fabulations, counter-factuals, 'backcasting' Find different core frames (indigenous knowledges, e.g.)

How can "Society 5.0 Ethics" open new pathways of imagining, thinking, and acting?





as a mindset

Socially-focused

Shift from abstract or tech-centric to localized, collaborative, human-centric

Ethically focused

Shift from risk
mitigation to doing
good, proactive virtues

Future-focused

Shift from anticipation to aspiration; proactive future 'shaping' and future 'making'

How can "Society 5.0 Ethics" open new pathways of imagining, thinking, and acting?

...an invitation and an open question





Workshop

The AI Primer: Definitions and Reality Check

Professor Karin Verspoor RMIT University

Executive Dean, School of Computing Technologies



Roundtable

Should Australia Recognise a
Right to the Internet?
A Roundtable Exploring
Human Rights Priorities in
Society 5.0

Dr Jonathan Kolieb RMIT University

Senior Lecturer in International Law & Co-Director Business and Human Rights Centre

Interactive Seminar



Can Money Save the World?

Professor Chris Speed RMIT University

Professor of Design for Regenerative Futures

Level 3 Foyer Share Your Voice!

We need research that explores...



...to inform ethical futures for Society 5.0



Thank you for your ideas!

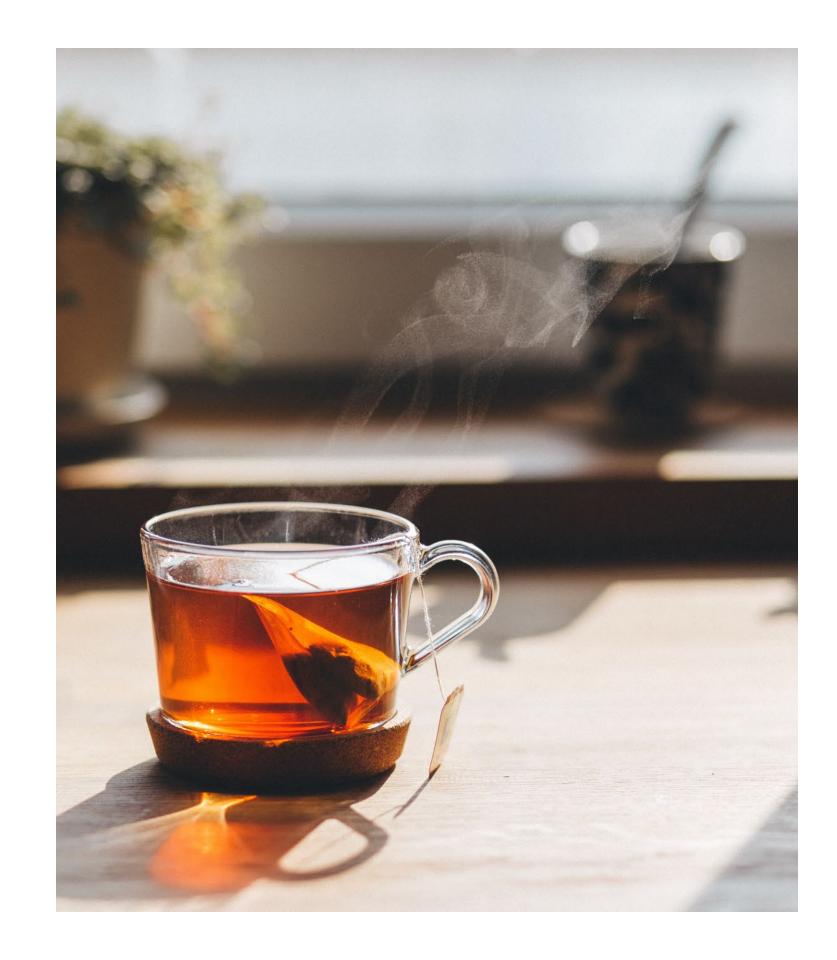
Be sure to attend the "Voices into the Future" session (Tuesday 18 June 2024, 5pm) to hear more about a potential future research agenda for Society 5.0 Ethics.

Day Two – 5:15pm "Voices from the Future"

Morning Tea



Level 3 Foyer







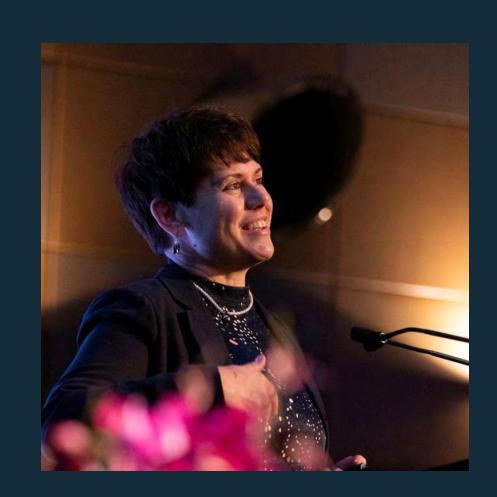




Keynote Welcome

Professor Lisa Given RMIT University

Director, Social Change Enabling Impact Platform Professor of Information Sciences



Keynote

Designing Our Ethical
Approaches to New
Technologies: Anticipating,
Reflecting, and Envisioning

Professor Rachel A. Ankeny University of Adelaide Professor of History and Philosophy





Designing Our Ethical Approaches to New Technologies: Anticipating, Reflecting, and Envisioning

Rachel A. Ankeny FASSA
School of Humanities, University of Adelaide
Philosophy Group, Wageningen University
Email: rachel.ankeny@wur.nl

RMIT, Society 5.0 Ethics: A Festival of Ideas 17 June 2024



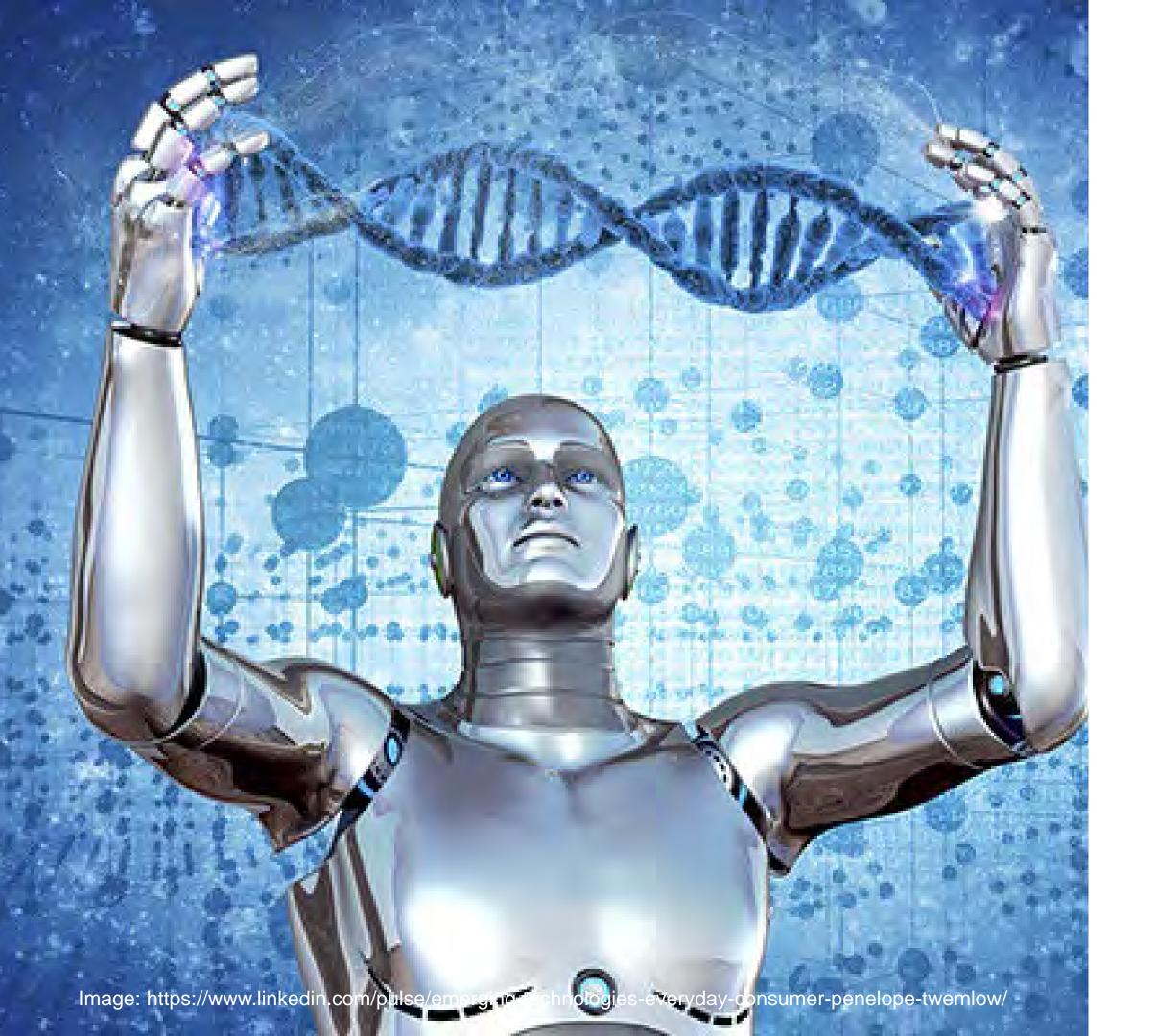
Society 5.0

- Goal of integrating digital and physical spaces, and using technologies, to tackle societal challenges
- Fostering diversity, transcending boundaries, by tailoring goods and services
- Knowledge-intensive and data-driven but human-centred approach
- Often led by the technologies—but ethics and responsibilities must come first!

Image: https://medium.com/@asifk4995/10-emerging-technologiesthat-will-change-the-world-in-2024-and-beyond-with-images-328e105f12e4

Key Arguments

- Emerging technologies typically fall into an "institutional void" (Hajer 2003)
- Questions of ethics are about what our society should become
- Shared ethical, reflective approaches are required: we should be 'responsible by design' rather than merely being responsive
- Deliberative approaches are essential to envisioning shared understandings



We Have Never Been (Just) Consumers

- Consumerism as traditional way of understanding products and technologies
- Whatever the market will bear!
- But if we are indeed interested in societal challenges and human-centred approaches, we must be citizens
- Need to devise shared understandings and approaches to foster good lives

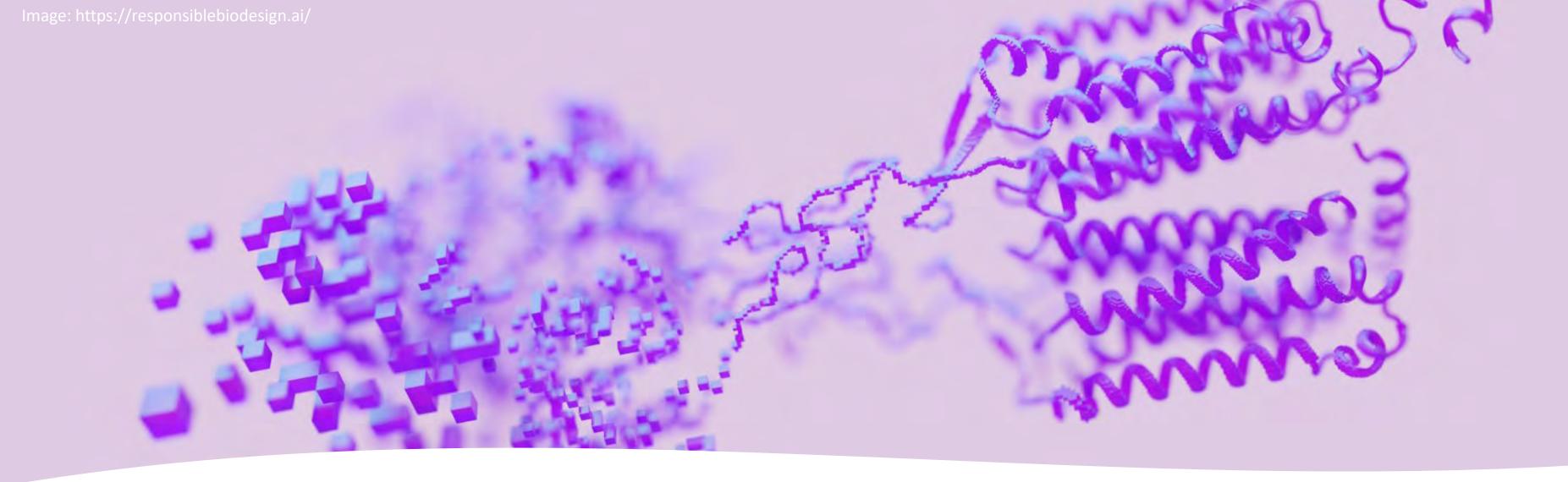
Is There an Institutional Void?

- No generally accepted rules or norms for instance for novel or emerging technologies
- Solutions must be global, go beyond usual borders
- Government is no longer the sole or main actor in policy making
- Scientific expertise is no longer a guarantee of trust, nor is it the sole source of truth or information



Should We Worry, or Celebrate?

- This supposed 'void' is an opportunity!
- Novelty is often contrived: many of the key ethical issues remain the same
- Consider violations of privacy, misinformation, bias, etc. all about adverse impacts on humans and the world around us
- What is new is our clearer focus on using technologies to improve society and foster good lives for all



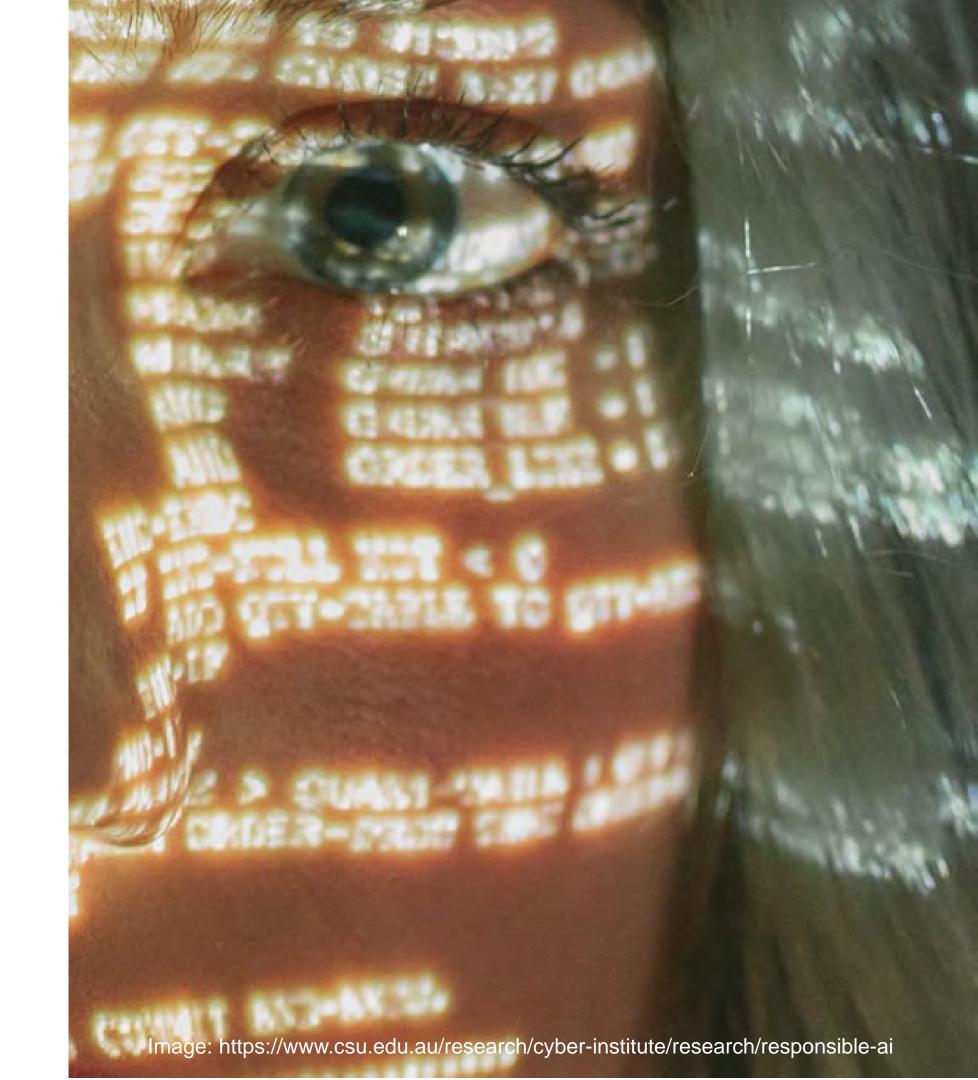
Responsible by Design (RbD)

"Research should be 'responsible by design' and thus account for societal risks, benefits and impacts right at the beginning" (Technopolis & Fraunhofer 2012, 29)

- Must take all societal values into consideration in the process of the design of the research
- Must integrate attention to concerns and possible negative future impacts into the technology itself
- Must engage publics, and consider concerns and desirable endpoints

Responsibility 5.0

- Need to abandon individualistic and roleoriented approaches to responsibility (Fisher and Rip 2013)
- Responsibility as collective
- Distributed across actors and throughout research/innovation processes
- Proactive rather than reactive
- Must shape scientific practices from the start by making practitioners commit to socially desirable goals
- Responsibility is not equivalent to compliance or legal requirements
- True responsibility requires engagement with society!





Responsible Research and Innovation (RRI): AREA Framework

- Anticipate: create occasions and spaces to foster anticipation about possible future technologies, and likely outcomes
- Reflect: embed opportunities for reflection to identify and assess relevant ethical, philosophical, and societal issues, and to engage in self-critical analysis
- Engage: work with publics to understand their priorities, hopes, and fears; allow them to debate and deliberate on aims, visions, and challenges of the topics under investigation
- Act: produce practical outcomes based on the previous stages and structure activities to allow responsibilities to be fulfilled

Example: Protein Design

- AI allowing design of functional biological molecules
- Could allow tailored and rapid responses to infectious disease outbreaks, sustainable sources of energy, mitigation of climate change, and so on

 However e.g.: biosecurity risks especially if open science approaches are used without anticipation and appropriate action

What Are Models for Communication?

(1) Linear: one-way communication from expert to passive listeners

(2) Interactive/transactional: two-way exchange typically involving back and forth

(3) Engaged: cooperative process using dialogue and true exchange, two-way learning



So How Do We Engage in This Domain?

- Use deliberative approaches!
- Involve citizens in community problem solving and public decision making
- Deliberation connects people, even with conflicting interests, to allow them to make decisions
- Can reveal new collective possibilities for action
- Allows us to consider which technologies we should support and under what conditions, i.e., how they should be structured to create public and social benefits

Open Questions

- How do we foster equality in technologies and in decision making about them, while supporting the vulnerable?
- How can we acknowledge, understand, and manage the impact of cultural considerations on research and innovation?
- How do we set priorities?



Being Responsible by Design

Requires a (shared) goal:

"Design is a plan for arranging elements in such a way as best to accomplish a particular purpose"

(Charles Eames)

"We should think of design as a broader, democratic conversation"

(Veyard 2018)

Thank you for your attention and looking forward to discussion!

Q&A with Prof Rachel Ankeny

Panel Discussion

Supply Chain Governance, Human Rights and Ethics

Prof Shelley Marshall RMIT University

Professor, Graduate School of Business and Law

Prof Chris Berg RMIT University

Director, Digital 3

Leigh Ashlin Simbl

Chief Recycling Officer







Workshop

Altered States:
Conversations
with Otherselves
in the Ambient
Surround

Dr Sarah Barns RMIT University

Vice Chancellor's Senior Research Fellow



Prof Annette Markham Utrecht University

Chair Professor of Future Data Literacies and Public Engagement



Workshop

Digital Futures
for People
with
Disabilities

Dr Kate Anderson RMIT University

Vice-Chancellor's Senior Research Fellow

Ms Katy Gagliardi VALID

Systemic Advocate

Mr John McKenna Better Access

Inclusion Consultant and Community
Empowerment Advocate

Brenton Ponza









Level 3 Foyer Share Your Voice!

We need research that explores...

Society 5.0 **Ethics** A Festival of Ideas **An Engaging for Impact Event** 17-18 June 2024

...to inform ethical futures for Society 5.0



Thank you for your ideas!

Be sure to attend the "Voices into the Future" session (Tuesday 18 June 2024, 5pm) to hear more about a potential future research agenda for Society 5.0 Ethics.

Day Two – 5:15pm "Voices from the Future"

Afternoon Tea

355

Level 3 Foyer











Keynote Welcome

Professor Annette Markham Utrecht University

Chair Professor of Future Data Literacies and Public Engagement



Keynote

Designing Inclusive Tech:
Future-Oriented
Approaches to the Digital
with the Majority World

Professor Payal Arora Utrecht University

Professor of Inclusive AI Cultures & Co-Founder of FemLab, a feminist futures of work initiative

From Pessimism to Promise

Lessons from the Global South on Designing Inclusive Tech

PAYAL ARORA foreword by Charles Hayes

Designing Inclusive Tech

Payal Arora

Professor and Chair of Inclusive Al Cultures, Utrecht University

Co-founder of FemLab

Neutral & Universal tech

Platform & algorithmic bias

Data bias







Inclusive: shift from default to dialogue around purpose, impact, and costs

Interdisciplinary:
value social
approaches to
technical questions

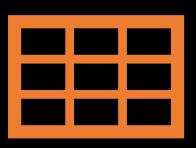
Iterative: building reflexivity in global digital systems



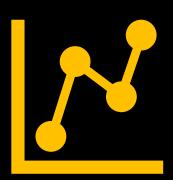




Beyond the binary







Data deficit & Data glut

Real & Synthetic data

Situated & Scalable data

Data glut & Data deficit



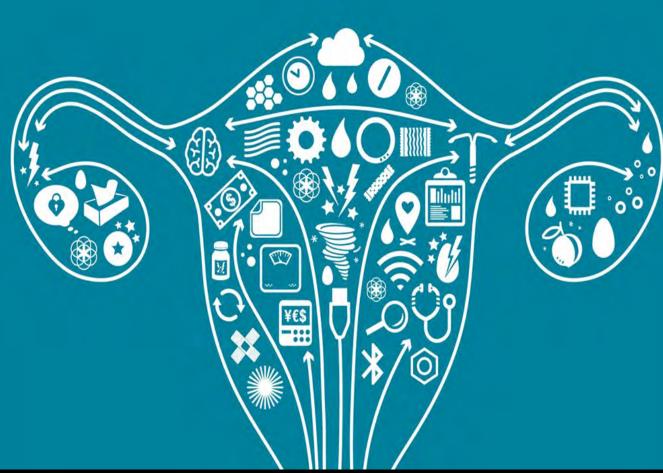




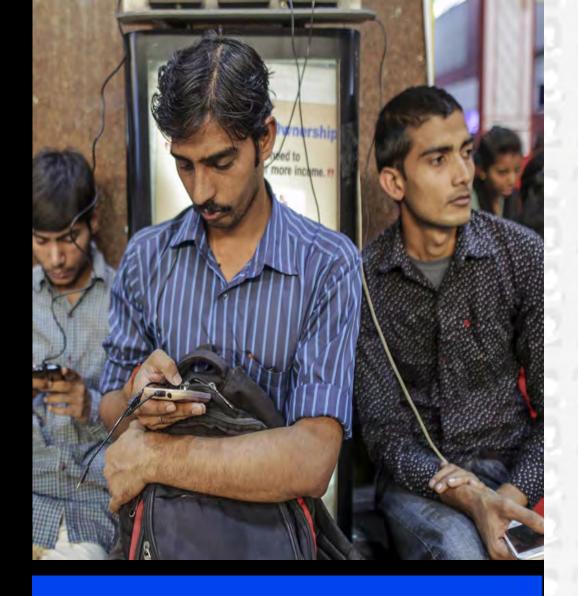
RMIT Classification: Trusted

Blue vs Pink data to feminist data





Invisible Women: Exposing Data Bias in a World Designed for Men Book by Caroline Criado-Perez Global South data is the radical normative



rest of world

The Next Billion Users

DIGITAL LIFE BEYOND THE WEST

PAYAL ARORA

Avoid the 'big' data replay

The Q focus: quality over quantity

Data corruption, protection, value





Real & Synthetic data

Sure, here are some images featuring diverse US senators from th











Generate more

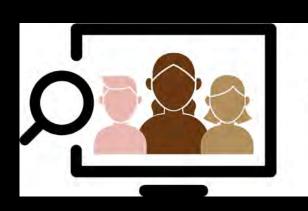
Context matters: descriptive vs. discriminatory data











findhr

Fairness and Intersectional Non-Discrimination in Human Recommendation (FINDHR)





LGBTQI+ Employee Resource Group





Context matters: Is aspirational data representative? Unethical?





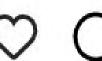
ghazale.pourreza



ghazale.pourreza 70s Style by me with #

ما همیشه در خفا و ...پستوی خانه بوده ستش داری زیباترین ین عاشق و معشوق میتونه بیافته. گفتن دوستت دارم ی کسی که دوستش ...داری

شن تصور این عشق، له ی این تابو هاست ،شرم و حیای ایرانی زيباست عاشقانه به هم نگاه با تمام وجود زندگی ۸۰:∜۱.۸۸ ۰۰:۲۰۸







Situated & Scalable data







Debiasing mindsets for meaningful data





RMIT Classification: Trusted

Sustainable is not always scalable





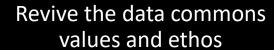






Concluding thoughts







Rethink the marginalized as majority



Recalibrate power brokers in data collection and curation



Redistribute value to ensure fair use



Resuscitate our appetite for productive discomfort

From Pessimism to Promise

Lessons from the Global South on Designing Inclusive Tech

PAYAL ARORA foreword by Charles Hayes

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SCAN ME

Q&A with Prof Payal Arora

Networking Reception

Level 3 Foyer

