TRUSTWORTHY DIGITAL SOCIETY: RESEARCH FORUM

ATILLA BRUNGS — THE TECHNOLOGICAL TRANSFORMATION WE'RE GOING TO SEE IN THE NEXT 10 YEARS WILL BE ASTRONOMICAL

THE PURPOSE OF TDS IS TO BE A TRUSTED RESOURCE FOR INDUSTRY, GOVERNMENT & ACADEMIA TO HELP FACILITATE A DIGITALLY ENABLED SOCIETY

WE MUST ENSURE THAT ETHICAL CONSIDERATIONS ARE EMBEDDED WITHIN THE FOUNDATIONS OF THESE UPCOMING DIGITAL SYSTEMS

ANDREW PARFITT — THE ISSUES OF TRUST, RELIABILITY AND RESPONSIBILITY ARE FRONT OF MIND IN MANY ORGANISATIONS AND COMMUNITIES

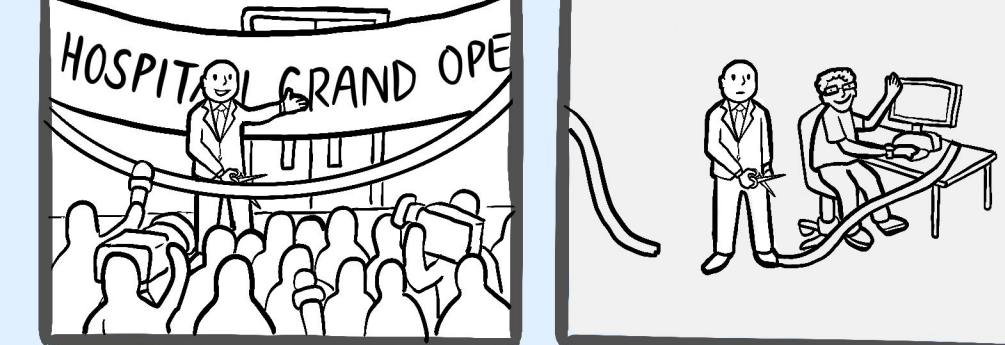WE NEED TO FIND THE FINE BALANCE BETWEEN PUSHING THE BOUNDARIES OF TECHNOLOGY DEVELOPMENT...

...WHILST BUILDING THE GUARD RAILS SO THE SYSTEM IS SAFE & FAIR

VICTOR DOMINELLO — MOST OF OUR INSTITUTIONAL STRUCTURES WERE SET UP OVER 200 YEARS AGO...

GOVERNMENT SOMETIMES DOESN'T HAVE THE BANDWIDTH TO PROCESS NEW TECH DEVELOPMENTS WHEN THEY'RE DEALING WITH CRISIS AFTER CRISIS

...ARE THE STRUCTURES THAT WE CREATED IN THE WORLD OF PEN & PAPER, FIT FOR PURPOSE IN AN AI AGE?

HOSPITAL GRAND OPENING

DIGITAL INFRASTRUCTURE ALSO ISN'T AN EASY PRESS OPPORTUNITY FOR POLITICIANS TO RECEIVE POLITICAL CLOUT IN THE MEDIA....
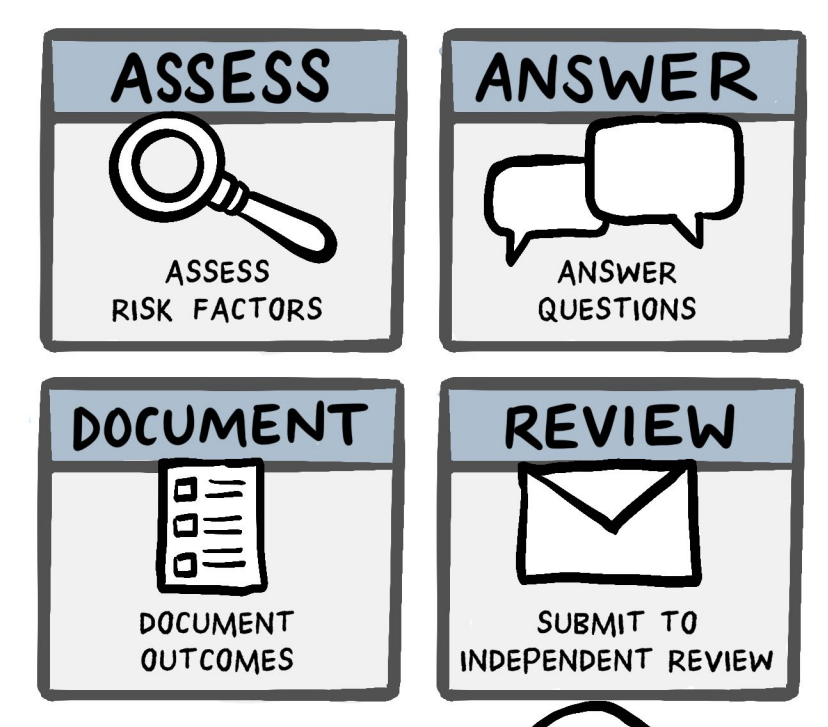
Mahesh Uttamchandani section

BRIDGING THE DIGITALISATION GAP IS ONE OF THE MOST IMPORTANT ISSUES WE'RE CURRENTLY FACING AT THE WORLD BANK

93% OF THE WORLD'S POPULATION LIVE WITHIN REACH OF THE INTERNET

54% OF THE WORLD'S POPULATION (2.6 BILLION) ARE WITHOUT ACCESS TO THE INTERNET

CYBERATTACKS ARE INCREASINGLY GROWING IN SCALE ACROSS THE WORLD

MAHESH UTTAMCHANDANI

WHAT ARE WE DOING TO MITIGATE THESE PROBLEMS?

- DESIGNING AND IMPLEMENTING ROBUST REGULATORY FRAMEWORKS
- ENHANCING THE CYBER RESILIENCE OF DIFFERENT SECTORS
- HELPING GOVERNMENTS NURTURE LOCAL TALENT VIA FORMAL EDUCATION & LIFELONG LEARNING

Assess / Answer / Document / Review

ASSESS — ASSESS RISK FACTORS
ANSWER — ANSWER QUESTIONS
DOCUMENT — DOCUMENT OUTCOMES
REVIEW — SUBMIT TO INDEPENDENT REVIEW

NSW WAS ONE OF THE FIRST JURISDICTIONS IN THE WORLD TO SET UP AN AI ASSESSMENT & ASSURANCE FRAMEWORK

EDWARD SANTOW

TDS IS HERE TO CREATE A NETWORK OF EXPERTS, PASSIONATE IN CREATING AN EQUITABLE DIGITAL FUTURE THAT ADVOCATES FOR MORE RESEARCH

...WHICH HAS LED TO A HUGE GAP IN RESEARCH & DEVELOPMENT WITHIN THAT SECTOR (AND LOT'S OF OPPORTUNITY AS A RESULT)

Dean Corcoran section

DEAN CORCORAN

AI HAS THE POTENTIAL TO PLAY A PIVOTAL ROLE IN SHAPING EVERY CITIZEN'S LIFE

AI CHANGES WHAT IT MEANS TO CREATE, SOLVE PROBLEMS, COMMUNICATE & LEARN

HOWEVER, ALL TOOLS COME WITH:

OPPORTUNITIES
- EQUITABLE & PERSONALISED LEARNING AND RESEARCH SYSTEMS
- OPTIMISED PUBLIC SERVICES
- HEALTHCARE ADVANCEMENTS
- FINANCIAL SERVICES INNOVATION
- RETAIL PERSONALISATION
- SUSTAINABLE MANUFACTURE & AGRICULTURE

CHALLENGES
- CONTENT SAFETY
- REDUCING HARM
- AI GOVERNANCE
- TRANSPARENCY
- DATA PRIVACY
- ETHICAL DILEMMAS

Visual processing section

50% OF THE HUMAN MIND IS DEDICATED TOWARDS VISUAL PROCESSING

JENNIFER MULVANEY

FAKE IMAGES HAVE THE ABILITY TO DO REAL HARM

WE CAN USE VERIFICATION TOOLS THAT CONFIRM HOW AN IMAGE WAS CREATED

VISION NUTRITION

NUTRITION LABEL FOR IMAGES THAT CAN SHOW NAME, DATE, LOCATION AND ANY EDITS MADE TO THE CONTENT

CONTENT CREDENTIAL TECHNOLOGY BUILT INTO THE CAMERA TO CONFIRM IT'S AUTHENTICITY

DEEPFAKED WORLD LEADERS MAKING FALSE ADDRESSES

FAKE ATTACKS

GENUINE RATING

AEC / Phil Goldie section

AS A NATION, IS AUSTRALIA MORE OR LESS TRUSTING THAN OTHER NATIONS AND DOES THIS TRANSLATE INTO US BEING MORE SECURE?

GIVEN THE WIDESPREAD USE OF STOLEN IDENTITIES DRIVING BREACHES, WHERE DOES THE RESPONSIBILITY LIE FOR ADOPTING MORE SECURE SECURITY FACTORS SUCH AS MFA LIE — GOVERNMENT (POLICY), ORGANISATIONAL, INDIVIDUAL?

AS CONSUMERS WE WILLINGLY SIGN UP TO APPS AND SERVICES WITH LOW REGARD FOR PRIVACY AND YET WE OFTEN HAVE LOWER TRUST IN DIGITAL GOVERNMENT SERVICES — WHY IS THIS?

SERVICE NSW APP IS ONE OF THE BEST USE CASES OF THE POWER OF DIGITAL TECHNOLOGY REVOLUTIONISING GOVERNMENT SERVICES

TECHNOLOGY IS RAPIDLY OUTRUNNING THE PACE OF LEGISLATIVE GOVERNANCE, CREATING A HUGE AMOUNT OF RISK

PHIL GOLDIE

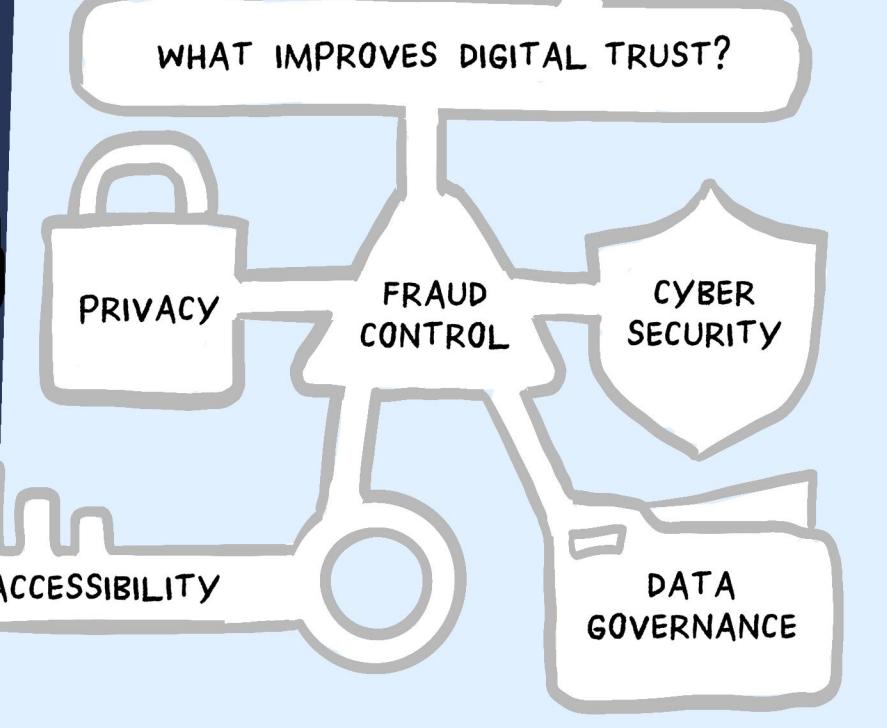**AEC WARNS IT DOESN'T HAVE POWER TO DETER AI**

GENERATED POLITICAL MISINFORMATION AT THE NEXT ELECTION — DEEPFAKES OR CLONED ROBOCALLS OF ELECTION CANDIDATES — MAY NOT BE ILLEGAL UNDER CURRENT LAWS...

Catherine Ellis section

CATHERINE ELLIS — WHEN SERVING OUR PEOPLE, WE NEED TO TAKE THE TRUST EQUATION ESPECIALLY SERIOUSLY

WHAT IMPROVES DIGITAL TRUST?

- PRIVACY
- FRAUD CONTROL
- CYBER SECURITY
- ACCESSIBILITY
- DATA GOVERNANCE

RESEARCH FOCUS:

- AI LITERACY
- HEALTHCARE
- DATA OWNERSHIP
- MEASUREMENT & TRANSPARENCY
- JUSTICE & EQUITY
- PRIVACY & TRUST

PEOPLE & BEHAVIOUR

- ENCRYPTED DATA PROTECTIONS
- ETHICS IN COMPANY PRACTICES
- RIGHT TO REVOKE CONSENT
- BEHAVIOURAL DISCREPANCIES WITH PRIVACY

DATA & TECHNOLOGY

- SUBJECTIVE VS OBJECTIVE MEASUREMENT OF TRUST
- TRUST VS REWARDS VS CHOICES
- SECURITY BY DESIGN
- TRUST REQUIRES EXPLAINABILITY
- GLOBAL STANDARDS OF TRUST

ETHICS & TRANSPARENCY

- DESIGNING EXPLANATION TOOLS
- FAIRNESS & IMPACT
- ETHICS IN STEM
- TRANSPARENCY VS. PRIVACY
- TRUST VS. TRUSTWORTHINESS

OVERSIGHT & POLICY

- REGULATORY CAPACITY & LEADERSHIP
- PREVENTING DISINFORMATION
- SECTOR SPECIFIC REGULATION
- TRUST BUILDING & BRANDING