



Clearing the Fog: Effective Privacy Protection in the Age of Cloud and Big Data

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Department of Commercial Law presentation

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About IIS

- Building trust and privacy through global thought leadership and consultancy work for a range of public and private organisations
- > Services: privacy governance & strategy; privacy impact assessments and audits; regulator, customer & stakeholder engagement; identity management; privacy training.....













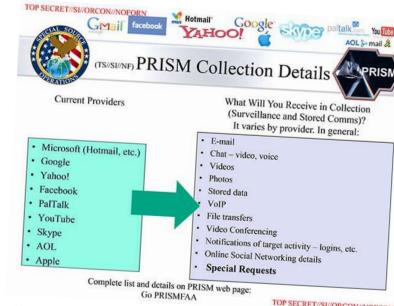




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Big Data is here









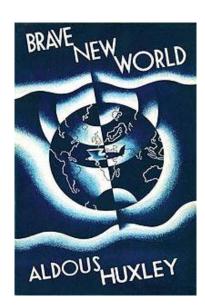
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It's a brave new world

Manipulation and conditioning

Genetic determinism





Prediction and foreknowledge





It's a brave new world

> Is this the world we want to live in...





> ...or can we have our cake and eat it too?

Competing responses

I've got nothing to hide



Stop this ride!





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Big Data: the reality

> It's here whether we like it or not





- Exponential growth of data
- Exponential growth computing power







How Big Data works



- Massive data set
- Analytics



- Producing correlations → <u>Discovery</u>
- Making predictions → Application
- Probabilities, NOT certainties



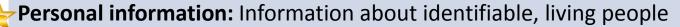
- "Big Data saves babies"
- "End of privacy as we know it"

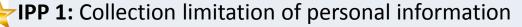


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Big Data & Privacy Law

Privacy Act 1993 (NZ)





IPP 2: Personal information collected directly

IPP 3: Notice and transparency

IPP 4: Fair, lawful and non-intrusive collection

IPP 5: Storage and security of personal information

IPPs 6 & 7: Access to and correction of personal information

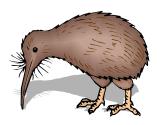
IPP 8: Accuracy of personal information to be checked before use

IPP 9: Personal information not to be kept for longer than necessary

IPPs 10 & 11: Limits on use and disclosure of personal information

IPP 12: Limits on use of unique identifiers





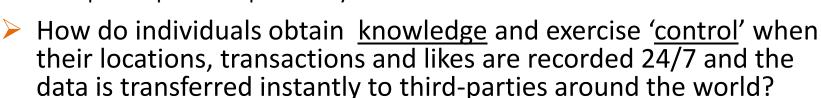
Big Data & Privacy Law

- Data collected for specified (and related) purposes
 - Eg, improving existing processes, fraud detection
- 2. Data used for specified purpose beyond what the individual would reasonably expect, and informed consent is obtained
 - Eg, behavioural advertising and profiling
- 3. The big growth area: 'unrelated' use of 'personal information'



Conceptual challenges

- Where do we draw the line with 'personal information':
 - When anonymised information is becoming increasingly easier to re-identify?
 - When triangulation pinpoints individuals without using any specific pieces of personally-identifiable information?



- What does it mean to have <u>collection limitations</u> if the greatest benefits arise from maximising the data pool?
- What does it mean to have <u>use and disclosure limitations</u> if the best ideas do not exist until the data is collected and analysed?



A new perspective

TRADITIONAL APPROACH

Data actively collected with user awareness

Definition of personal data is predetermined and binary

Data collected for specified use

User is the data subject

Individual provides legal consent but is not truly engaged

Policy framework focuses on minimizing risks to the individual

NEW PERSPECTIVE

Most data from machine to machine transactions and passive collection – difficult to notify individuals

Definition of personal data is contextual and dependent on social norms

Economic value and innovation come from combining data sets and subsequent uses

User can be the data subject, the data controller, and/or data processor

Individuals engage and understand how data is used and how value is created

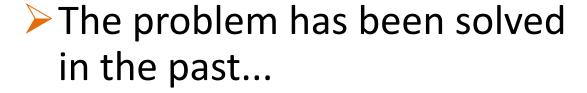
Policy focuses on balancing protection with innovation and economic growth

World Economic Forum, 'Unlocking the Value of Personal Data', February 2013, p 7.

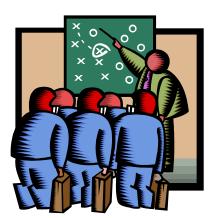
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A new perspective

- ➤ Shifting from "Have certain processes been met?" to "Are individuals well-served?"
 - Some notice and consent, where appropriate
 - Clever use of defaults
 - Well-designed user interfaces







- Developed by the Office of the Privacy Commissioner, Australia (now OAIC)
- Guide to decision-making in relation to potentially intrusive powers and practices
- Critically depends on good governance
- 1. Analysis Is this OK? What safeguards are needed?
 - Privacy Impact Assessment
 - Privacy by Design
 - Consultation
 - Leadership





2. Authority – Doing the right thing



- Legislation?
 - Strictly defined, prescribed inflexible, can be broken by bad people, good guys can make mistakes
- Conditionality?
 - Individual control and consent problems outlined above
- Infrastructure?
 - Cabinets, passwords, encryption with enough effort, any system can be broken, good guys can make mistakes
- Guidelines?

- > A medical ethics approach to authority:
 - Autonomy Companies should respect the privacy and choices of the individual
 - Justice Companies should act fairly, be transparent in their dealings and responsive to the individual
 - Beneficence Use of the personal information should provide some sort of benefit for individuals
 - Respect Companies have never 'owned the customer' and never will
 - Non-maleficence Beyond obvious misuse, companies must be careful to prevent unintended exposure as well as use that may result in discrimination



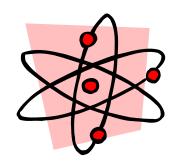


- 3. **Accountability** Ensure that the right thing is being done
 - Internally leadership, policies and procedures, training, rules, sanctions
 - Externally independent oversight, audit, enforcement

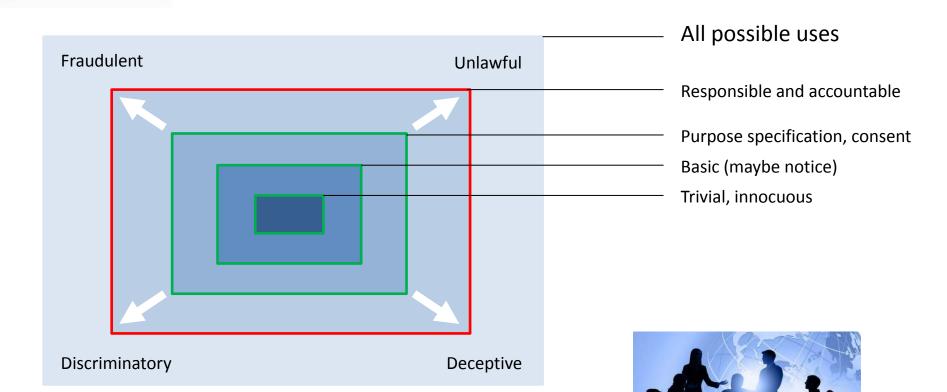


- 4. **Appraisal** Have things been working and what, if anything, needs to change?
 - All systems degrade over time (2nd Law of Thermodynamics)
 - Mistakes, errors and maleficence
 - People get old and move on
 - Systems and infrastructure age and decay
 - Governance also degrades
 - Respond to new conditions (eg, technology, environment, etc)





A possible way forward



- Credible decision-making process expands the scope of permissible uses
- Governance is key

Conclusion

- ➤ Big Data is here
- Big Data is going to change things
- Current law will have trouble keeping up
- New perspective is needed
- Governance and the 4As framework: oldies but goodies





Questions?

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