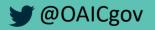


Australian Government

* Office of the Australian Information Commissioner

Cybersecurity Education Summit 2019

Keynote: Andrew Solomon Assistant Commissioner, Dispute Resolution



Office of the Australian Information Commissioner

- Integrity agency, promoting transparent and accountable handling of personal information
- Human rights agency, protecting the right of individuals to personal autonomy, choice and control
- We recognise the economic value of personal information and seek outcomes in the public interest



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Overview

- 1. What privacy means and the OAIC's role in regulating personal privacy
- 2. Challenges in the current environment
- 3. How privacy intersects with cybersecurity







The human factor

Most data breaches reported to the OAIC involve the human factor:

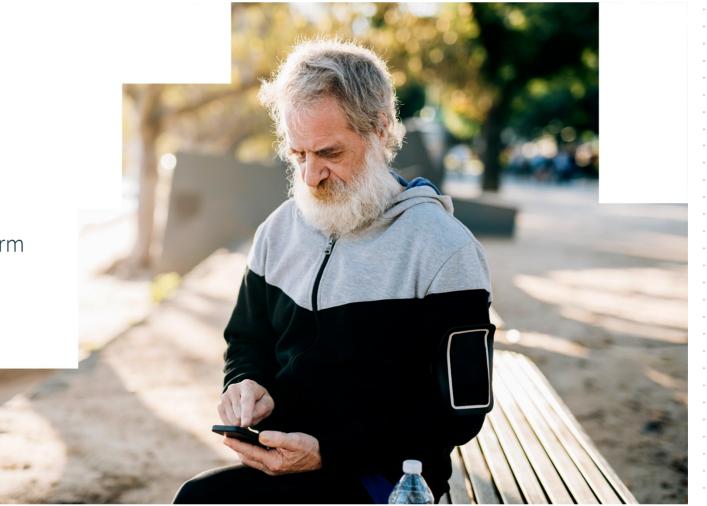
- Cyber attacks
- Human error
- Some system faults





Impact of a data breach

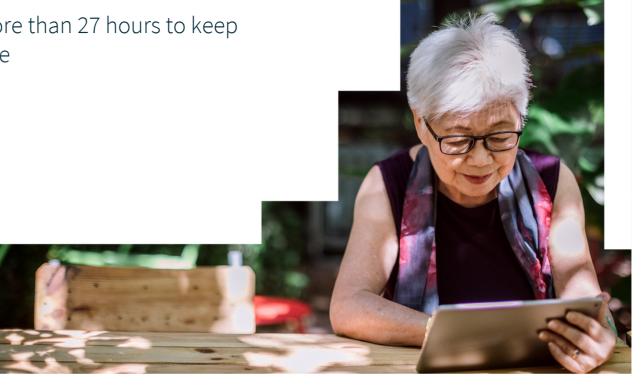
- Time
- Money
- Emotional toll
- Potential for physical harm





Impact on people

- One in four Australians have had their personal information misused
- It takes the average person more than 27 hours to keep their identity and accounts safe





Dealing with a data breach

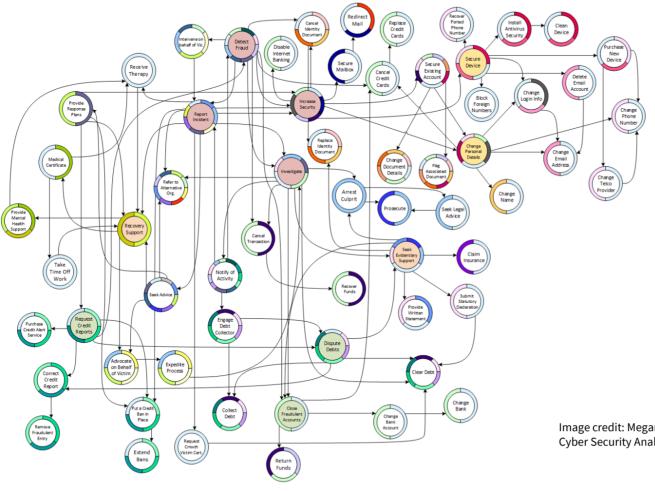




Image credit: Megan Wyre, Identity and Cyber Security Analyst, IDCARE 2019

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Cost of data breaches

Identity crime costs Australians \$2.6 billion a year – *Attorney-General's Department 2016 report.*



The cost of a data breach to business is growing – an average \$3 million per incident in Australia in 2019 – *IBM Security Ponemon Institute Survey.*



New system of penalties to strengthen online privacy protections



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What is privacy?

A fundamental human right recognised in the UN Declaration of Human Rights.

Information privacy is about protecting the collection and handling of information that says:

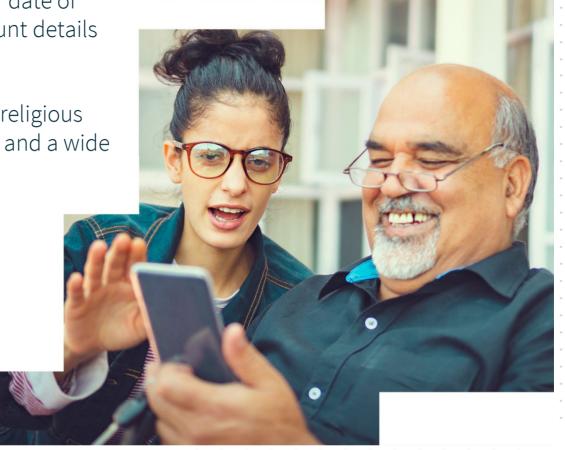
- who we are
- what we do
- and
- what we believe

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What is personal information?

- Your name, signature, contact details or date of birth, your medical records, bank account details and credit history
- Your photo, your political opinions and religious beliefs, your fingerprint, voice print, iris, and a wide range of other information



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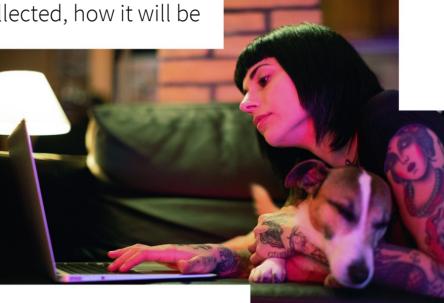
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Privacy rights

Australia's Privacy Act 1988 gives us the right:

- to know why our personal information is being collected, how it will be used and who it will be disclosed to
- to ask for access to our personal information, and
- for organisations to secure the information and ensure its accuracy before using or disclosing it





Securing personal information

- Rapid growth in value of data
- Growth in the volume of data holdings





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Interface between privacy and cybersecurity

- Cybersecurity and privacy should not be separate domains within an organisation
- **Privacy** governs how personal information should be collected, used, shared and retained, and be accessible to that person
- Security restricts access to the sensitive data and protects it from unauthorised access
- Each informs the other





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Notifiable Data Breaches Scheme

Organisations are legally required to quickly assess actual or suspected data breaches

If serious harm is likely to result, they must notify affected individuals

CAIC

They must also notify the OAIC



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OAIC	-	-	-				-		+	•	-	-	

Assessing harm

- Financial information
- Identity information
- Contact information
- Health information





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NDB Statistics 2018-19

950 notifications in total

Malicious or criminal attacks are the leading cause

Human error accounts for about a third of mandatory notifications

System faults accounted for the remainder (business or technology process error)



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Da	ata breach prevention – best practice
1.	Training
2.	Understanding your personal information holdings
3.	Preventative technologies and processes
4.	Preparing and rehearsing for responding to a data breach
5.	Trust and transparency – communicating clearly



Global privacy landscape

- Building privacy from the ground up
- Data knows no borders
- Working towards globally interoperable standards and enforcement
- Convergence of data and consumer protection

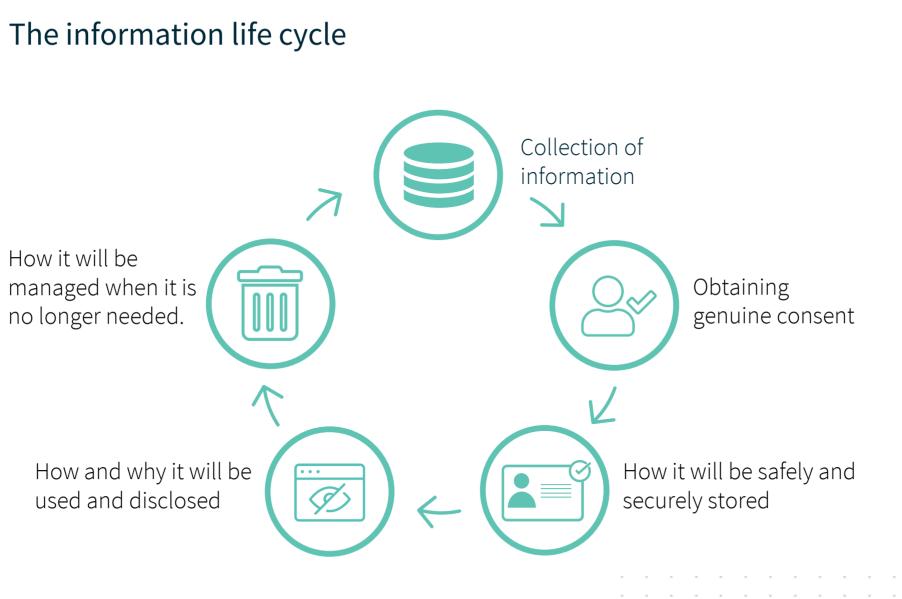


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Looking to the future: cybersecurity education





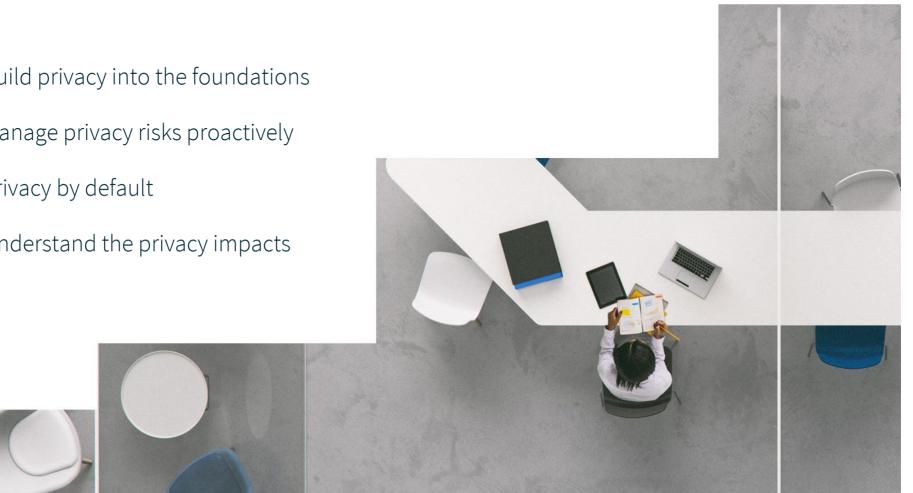




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Privacy by design

- Build privacy into the foundations •
- Manage privacy risks proactively •
- Privacy by default •
- Understand the privacy impacts •





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People and technology

- Understand human behaviour
- Anticipate risks
- Cybersecurity professional is also a trainer



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An introduction to privacy for the cybersecuri	ty professional
1: Privacy/cybersecurity interface	
2: What is privacy	
3: Understanding human behaviour	-
4: Privacy by Design	
Step 1 – Proactive, not reactive, preventative not remedial	- -
Step 2 – Privacy as a default setting	
Step 3 – Privacy embedded into design	
Step 4 – Full functionality	-
Step 5 – End-to-end security	
Step 6 – Visibility and transparency	-
Step 7 – Respect for user privacy, keep it User Centric.	
(PBD Seven Steps: Reference: <i>Strategic Privacy by Design</i> by R. Jason Cronk, 2018)	





Australian	Government

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	Questions						
	Questions						
	Andrew Solomon						
	Assistant Commissioner Discuste Desclution						
	Assistant Commissioner, Dispute Resolution						
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@OAIC و @OAIC	,						OAIC