

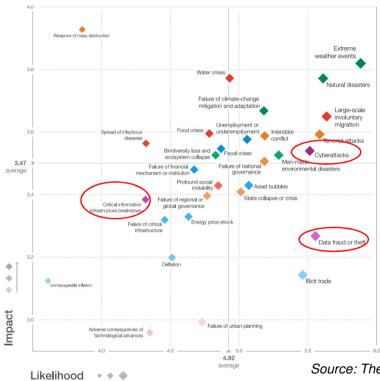
BDO/AusCERT survey

Overview

- What is at risk?
- 2. Global industry trends
- 3. BDO/AusCERT survey
- 4. Recent cyber breach case studies
- 5. Cyber risk mitigation strategies

What is at risk

2017 World Economic Forum



What is at risk

Adversaries – motivations and incentives

THREATS



HACKTIVISM

Hacktivists might use computer network exploitation to advance their political or social causes.

CRIME



Individuals and sophisticated criminal enterprises steal personal information and extort victims for financial gain.

INSIDER



Insider threat actors typically steal proprietary information for personal, financial, or ideological reasons. **ESPIONAGE**



Nation-state actors might conduct computer intrusions to steal sensitive state secrets and proprietary information from private companies. **TERRORISM**



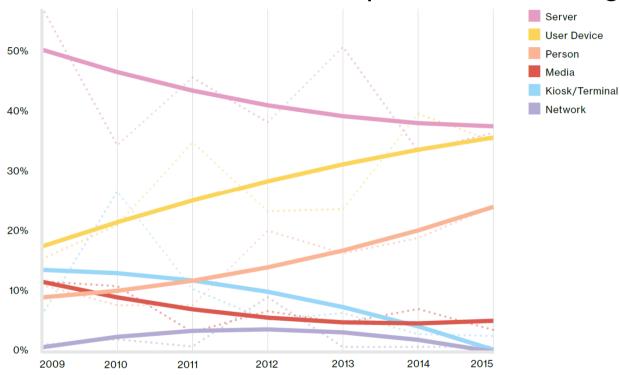
Terrorist groups might seek to sabotage the computer systems that operate our critical infrastructure. Nation-state actors might attempt to sabotage military and critical infrastructure systems to gain an advantage in the event of conflict.

WARFARE

ACTIONS

Global Industry trends

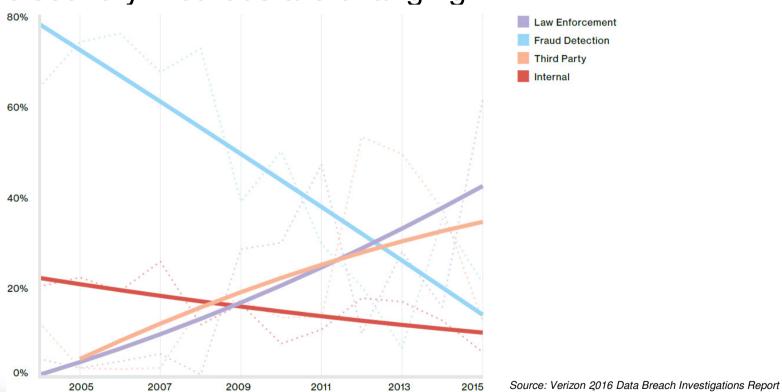
Cyber attacks on user devices & persons are rising



Source: Verizon 2016 Data Breach Investigations Report

Global Industry trends

Breach discovery methods are changing



Global Industry trends

Breaches are on the rise but industry spend has not kept track

\$500 billion

Cyber attacks are on the rise

The estimated annual cost of cyber-attacks to the global economy was more than \$500 billion in 2015 with \$230 billion in APAC

\$2.1 trillion

World Economic Forum recognise cyber breaches as one of the top threats to stability of global economy Cost of data breaches and malware infections will cost the global economy \$2.1 trillion by 2019

\$75 billion Cyber threats are Boards' fastest-growing concern, but investments are not keeping track with breach costs

\$75 billion spend on cyber security in 2015

\$175 billion

Estimated spend on Cyber Security by 2020 will be \$175 billion

Cyber spend will more than double over the next five years with Cyber insurance expect to grow to \$2.5 billion by 2020

Source: Forbes

CYBER SECURITY

Overview

1 million

Solid growth in cyber security job market

1 million unfilled cyber security jobs globally in 2015 which is a 75% increase in the last five years

6 million

Cyber security jobs in demand as investments increase

There will be shortage in cyber security skills as the market is expected to grow to 6 million jobs by 2019 with a shortage of 2 million jobs

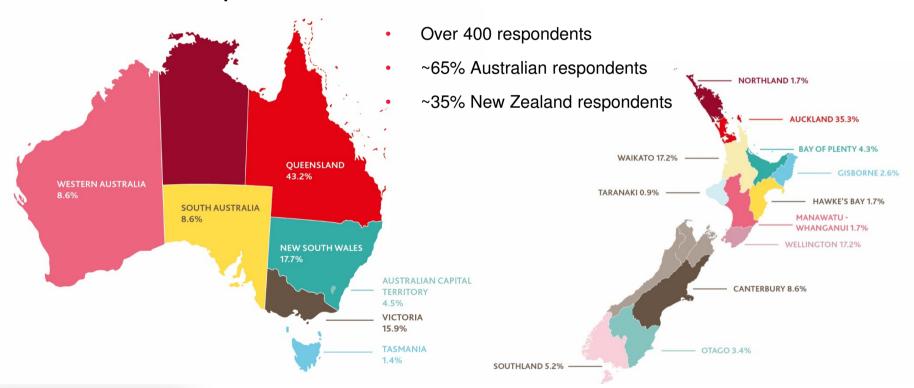
21%

Cyber job market in ANZ region is growing

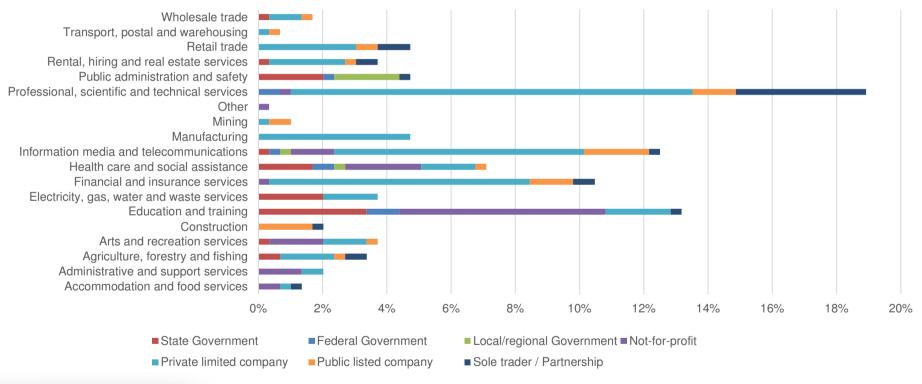
The demand for cyber security skills in ANZ market will grow 21% over the next five years with expected shortage of 10,000 people by 2019

Source: Forbes

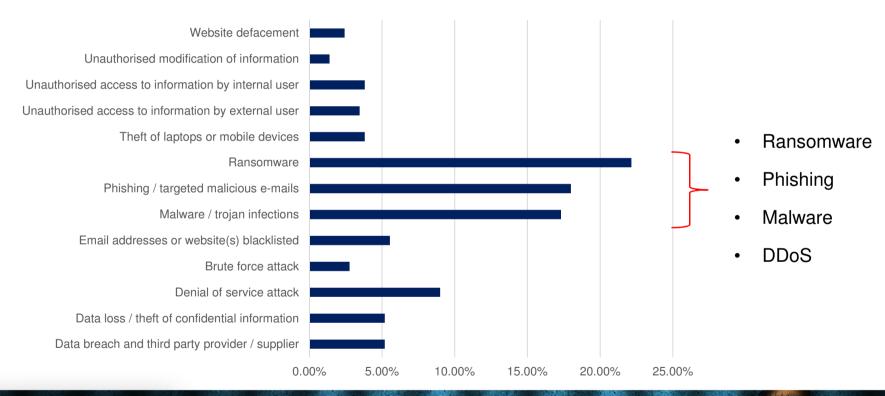
Australian Respondents



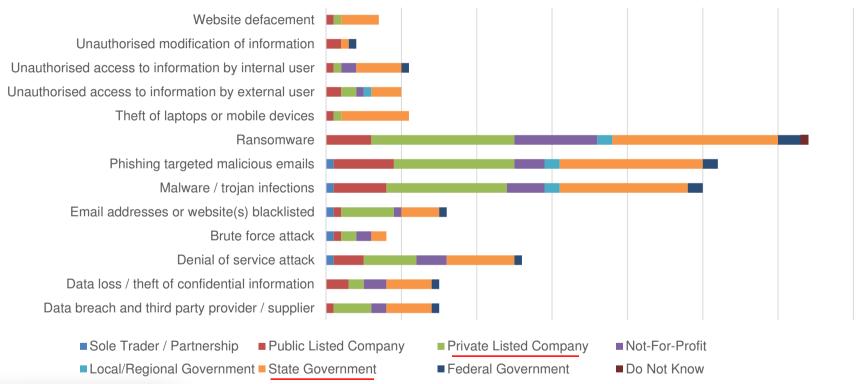
Primary industry of all respondents



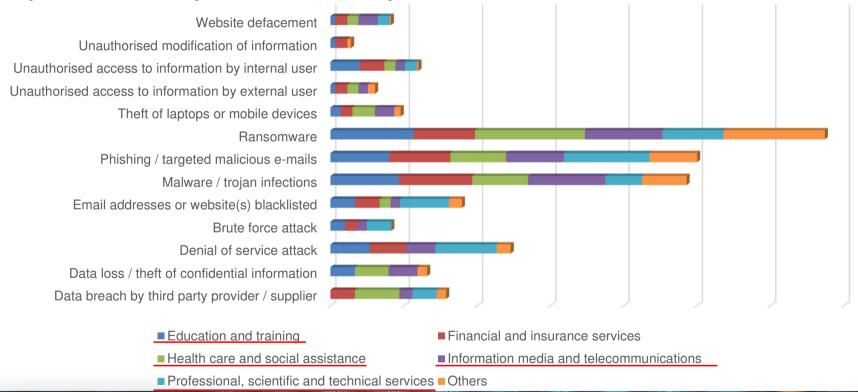
Cyber security incidents experienced in 2016



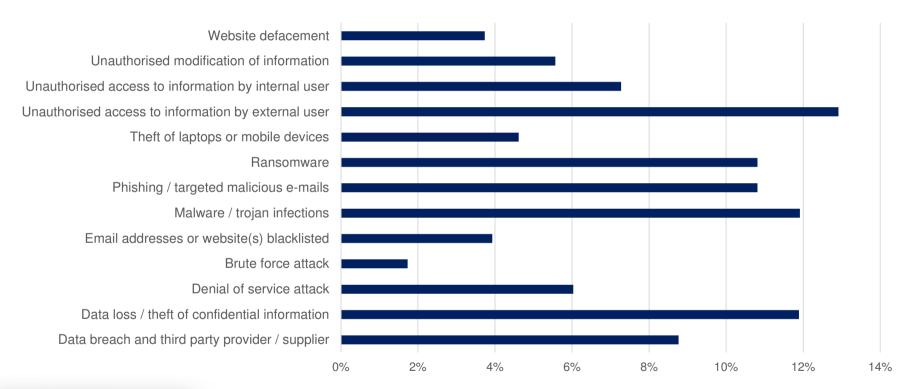
Cyber security incidents experienced in 2016



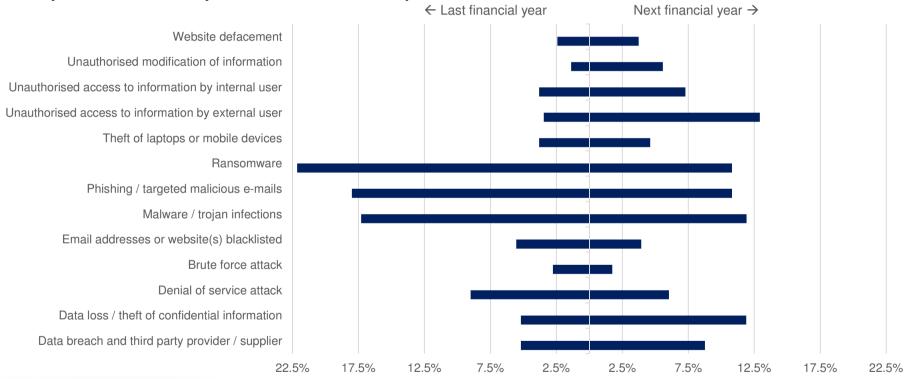
Cyber security incidents experienced in 2016



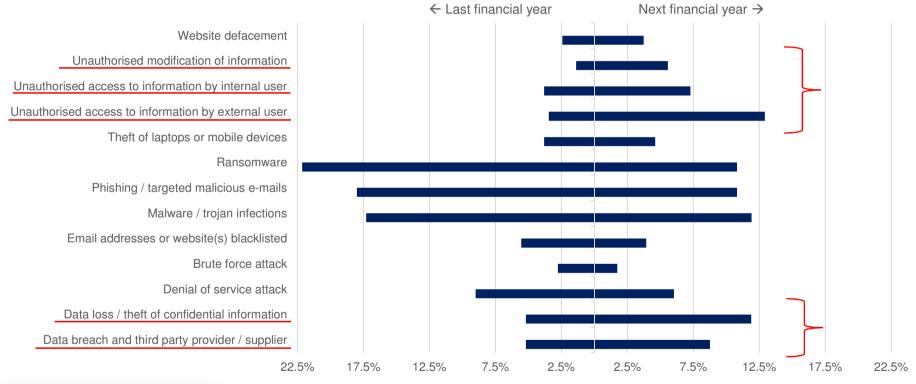
Cyber security incidents expected in 2017



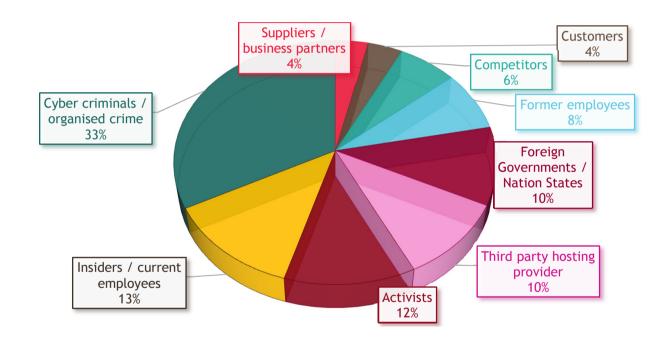
Cyber security incidents comparison



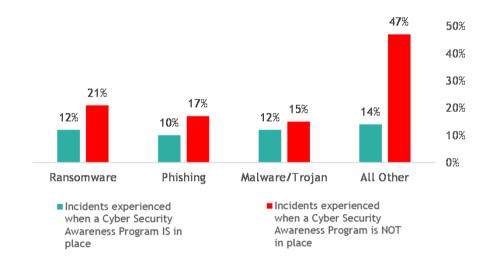
Cyber security incidents comparison



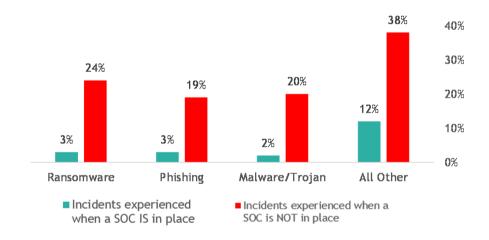
Likely source of Cyber security Incidents



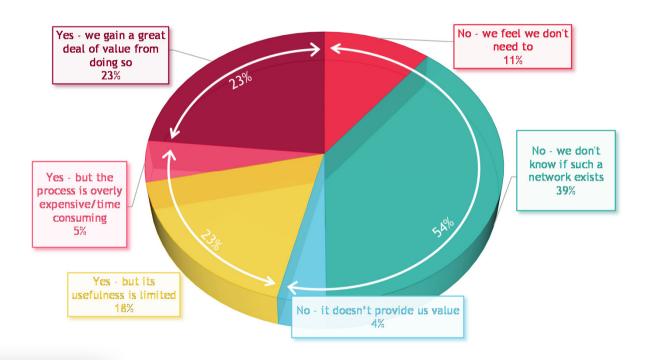
Cyber security awareness programs reduce incidents overall



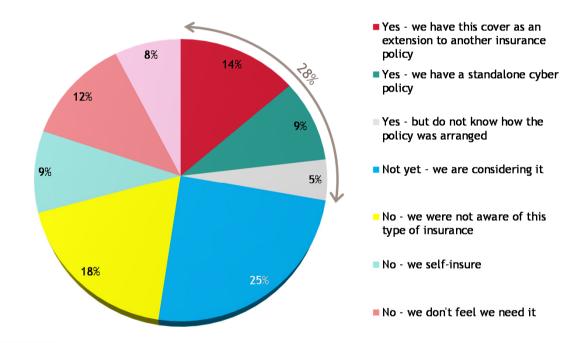
Security Operations Centres reduce incidents by ~80%



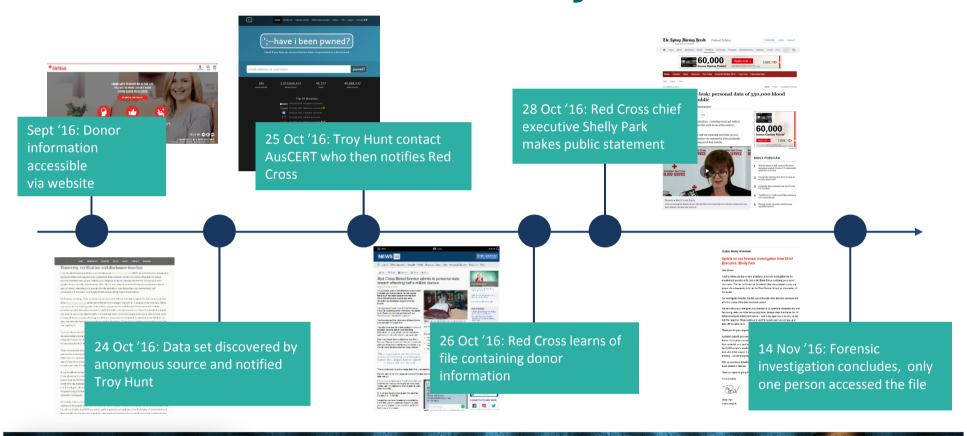
Usage of intelligence sharing networks



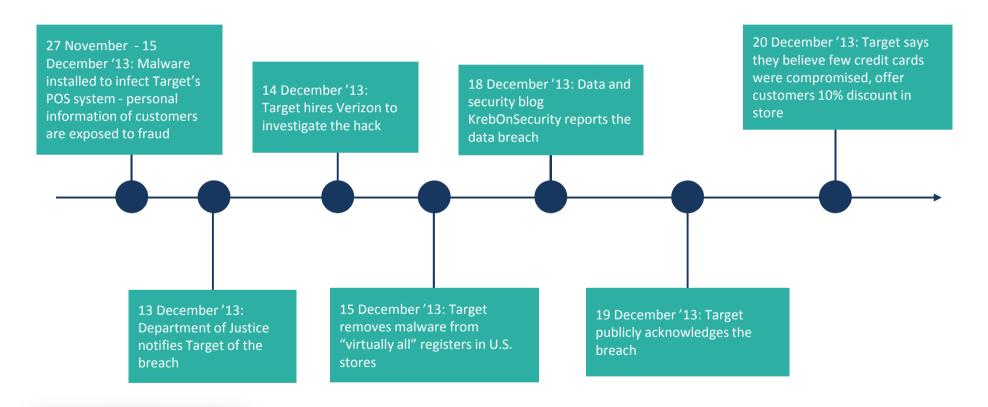
Only 28% of respondents have cyber insurance cover



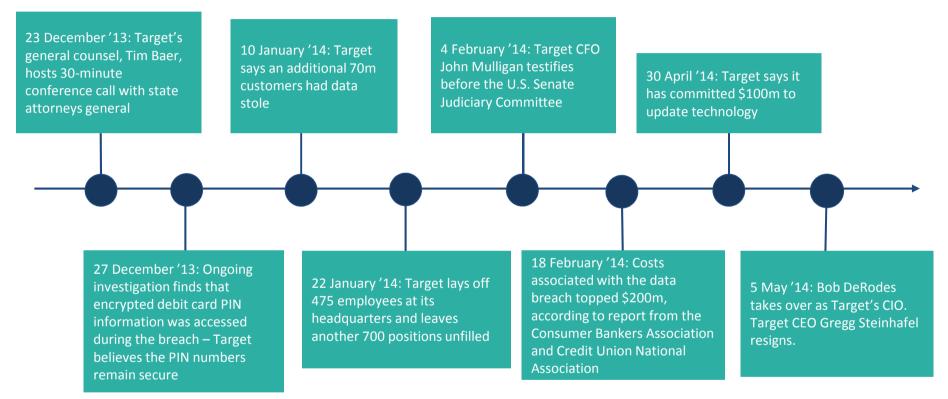
Data Breach case study – Red Cross



Data Breach case study – Target



Data Breach case study – Target



Cyber Risk mitigation strategies

How you can become more cyber resilient

- Know the value of your data / assets
- Know where your data / assets are
- Know who has access to it.
- Know who is responsible for protecting it
- Know how well it is protected
- Know if the level of protection is within your risk appetite
- Know what to do when you are breached

Questions

Need more information?

Leon Fouche leon.fouche@bdo.com.au +61 434 223 217

Download survey report: http://bdoaus.co/2gJ5aQu