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Session 3A

Information security and privacy: A toolkit for government

Presented by

Michael Shatter
National Director, Security and Privacy Risk Services
RSM Australia

What are we covering today?

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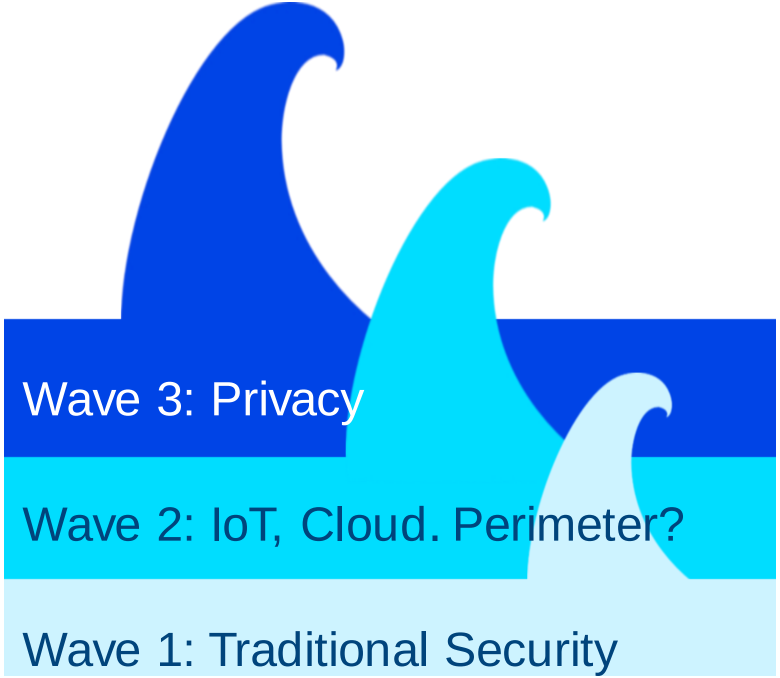
1. The Security Risk Landscape
2. Impact of Privacy
3. Security Fatigue
4. Human Capital Security Risks
5. Demonstrating Value

The Security Risk Landscape

- Attackers don’t differentiate between big and small targets
- Many systems are fully automated
- A breach can be dangerous if an attacker obtains password data that provides access to various systems.
- The end user is the easiest point in the network to attack
- Big breaches start with small compromises

The Security Risk Landscape

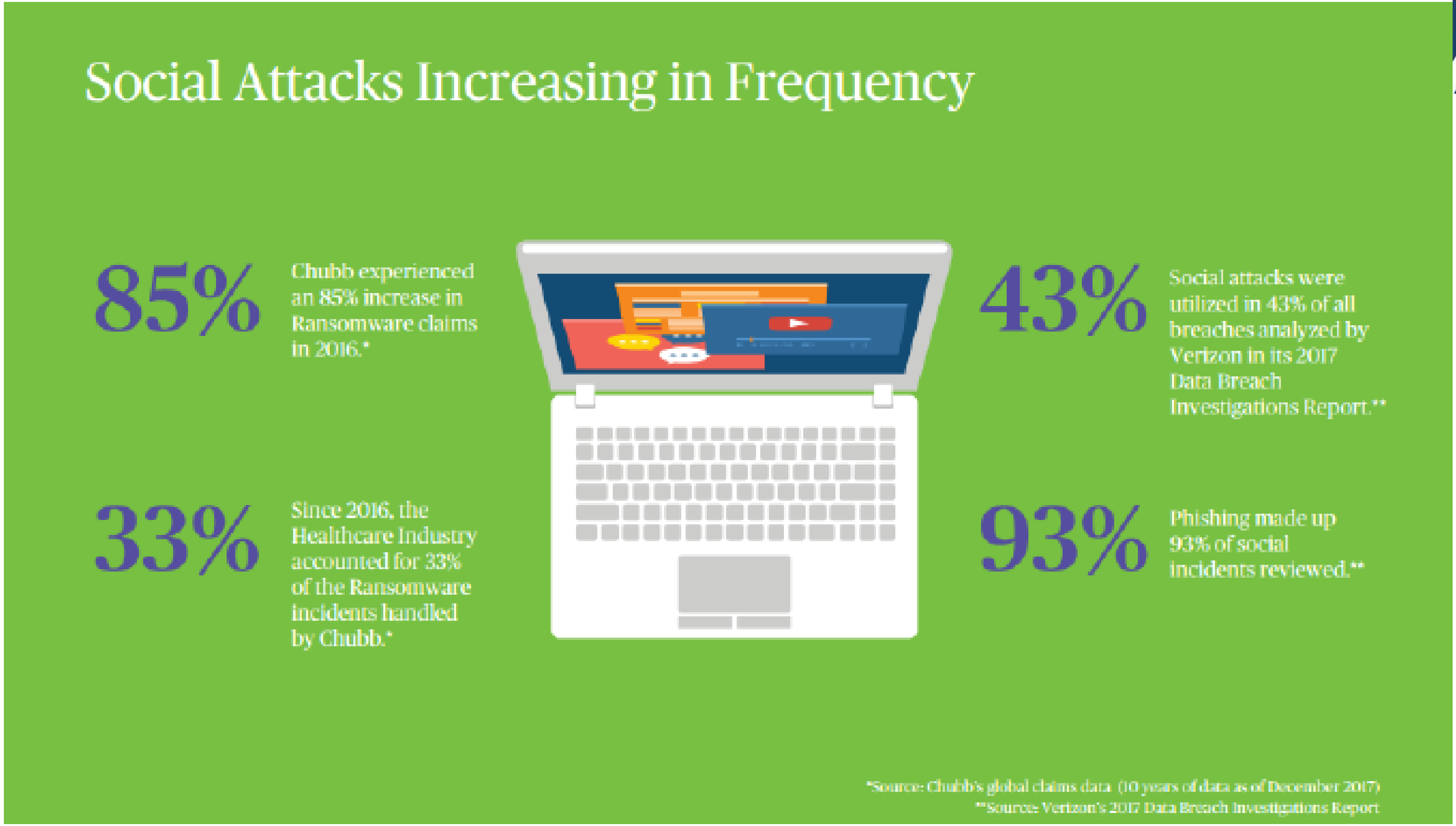


Wave 1: Defend company's data/crown jewels. Hundreds of devices.

Wave 2: Defend company's data/crown jewels. Explosive growth of attack surface (IoT, cloud, mobile). Thousands of devices.

Wave 3: Defend individuals' data. Millions of records – Erosion of Public Trust

Social Attacks Increasing in Frequency



Social Attacks Increasing in Frequency

85% Chubb experienced an 85% increase in Ransomware claims in 2016.*

33% Since 2016, the Healthcare Industry accounted for 33% of the Ransomware incidents handled by Chubb.*

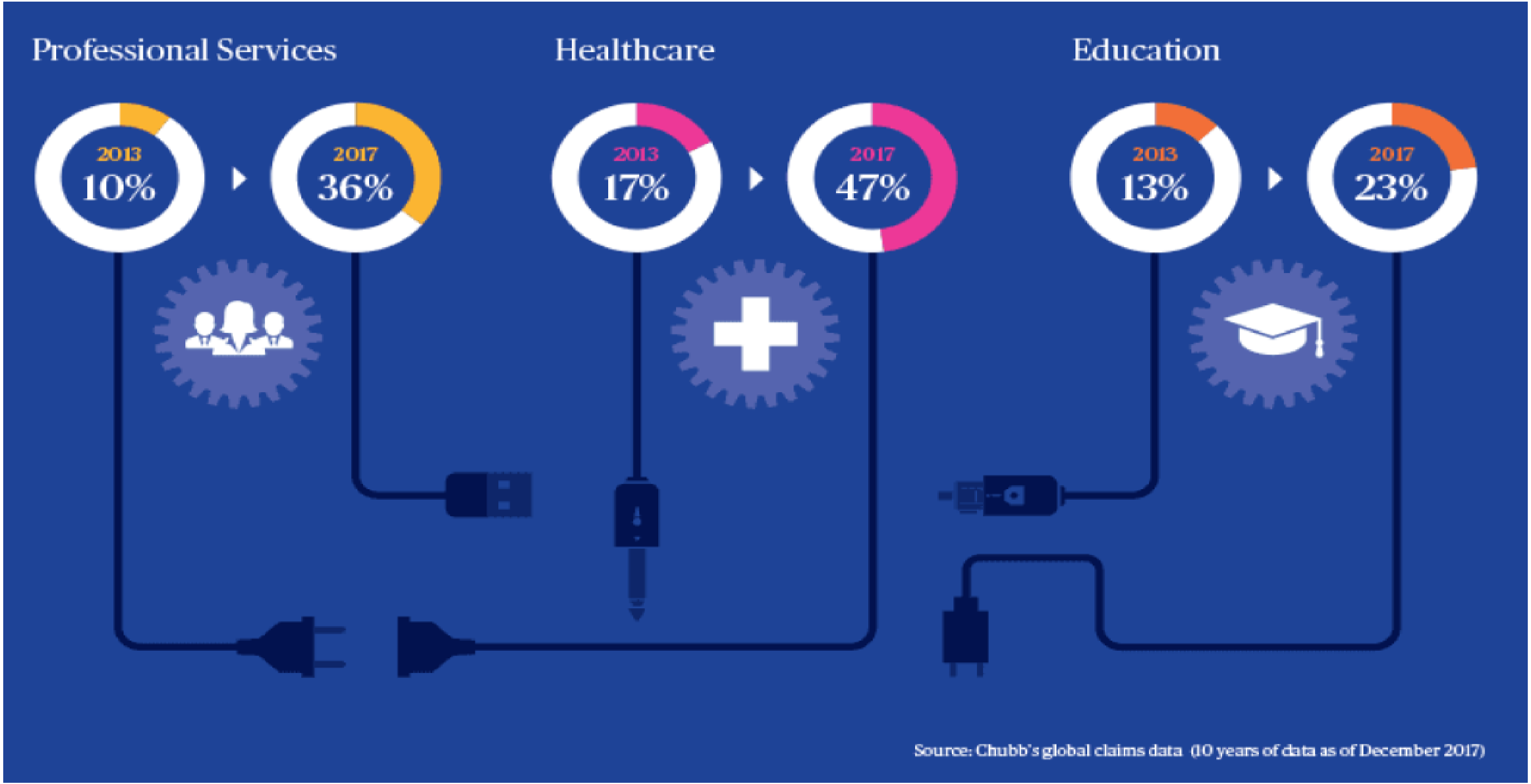
43% Social attacks were utilized in 43% of all breaches analyzed by Verizon in its 2017 Data Breach Investigations Report.**

93% Phishing made up 93% of social incidents reviewed.**

*Source: Chubb's global claims data (10 years of data as of December 2017)

**Source: Verizon's 2017 Data Breach Investigations Report

Incidents caused by human error are increasing in frequency



Source: Chubb's global claims data (10 years of data as of December 2017)

Privacy

- **Australian Privacy Principles – They do not apply to Councils…**

But…

- **National Data Breach Scheme applies**
  - Section 26WB – Recipients of TFN's
- **NSW Privacy and Personal Information Protection Act 1998 (PPIP Act) applies to local councils**
- **NSW Health Records and Information Privacy Act 2002 (HRIP Act) applies to local councils**

Security Fatigue

Human Capital Security Risks

Human Capital Security Risk

Human Capital Security Risks

- **Assess current security awareness**
  - Social engineering exercises
- **Develop a security awareness campaign**
- **Commit to the campaign across the organisation**
- **Update the campaign to reflect current risks**
- **Measure its effectiveness – Refine it or the approach**
- **Re-run it**

Demonstrating Value

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- Public organisations have to justify budget investments
- Is the organisation paying too much for security?
- What’s the financial impact due to inadequate security
- When is security investment enough?
- Is the security product/service beneficial to the organisation?

Can be difficult to measure and report on the security investment

Demonstrating Value

Assessment & Analysis

- Should be treated in line with other business costs
- Reported on a periodic basis
- Communicated to stakeholders
- Comply with analysis process
- Include in decision making
- Refine
- Re-assess and Review

So to conclude

- **Test your security.**
- **Invest in but measure your security.**
- **Determine if you need a plan to address:**
  - Notifiable Data Breach scheme preparation
- **Know where your crown jewels are – Protect the castle.**
- **Have a breach response plan in place – Develop it, test it, update it and train on it**

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Thank you

QUESTIONS?