

Cyber Security – Cyber Safety

... How to live with the Internet

The Internet



The Internet

Smartphones
Tablets
Computers



Searching
(Google)
Communication
Social Media
Shopping
Banking

As a society, we depend **100%** on the internet

The Internet



Curse



Blessing

The Internet



Curse



Balance



Blessing

The Internet



Knowledge



Balance



Behaviour

The Internet



Knowledge

Balance

Protect

The Internet



Threads

Attack vectors



33%

Text message

79,835 reports

\$28 million
reported lost



29%

Phone

63,821 reports

\$141 million
reported lost



22%

Email

52,159 reports

\$77 million
reported lost



6%

Internet

13,692 reports

\$74 million
reported lost



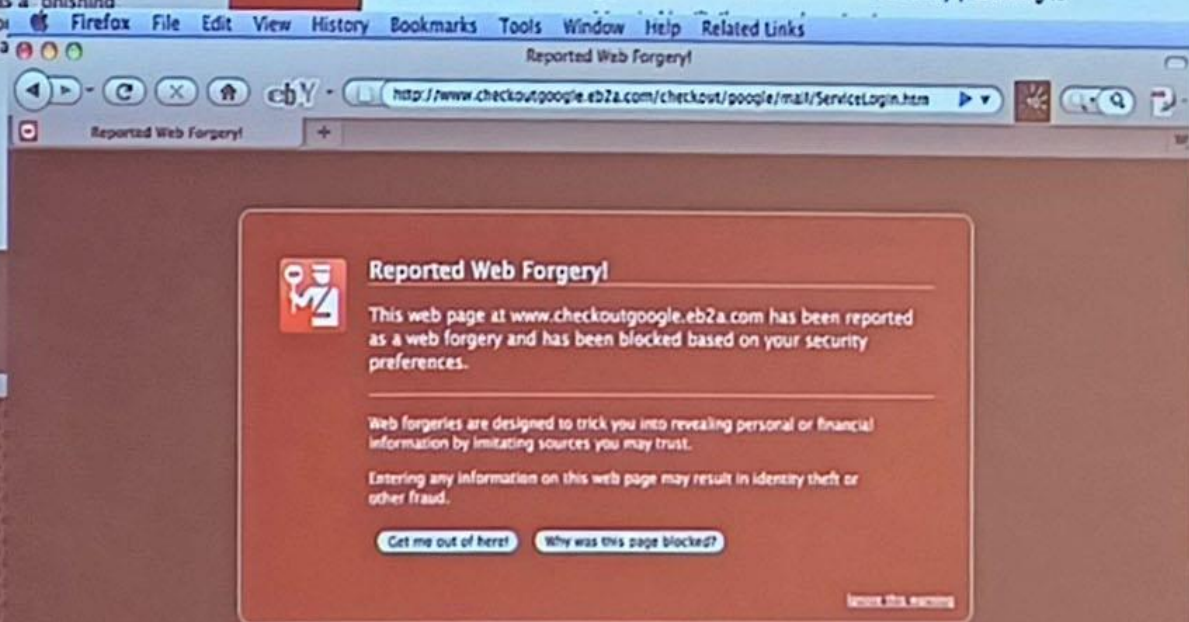
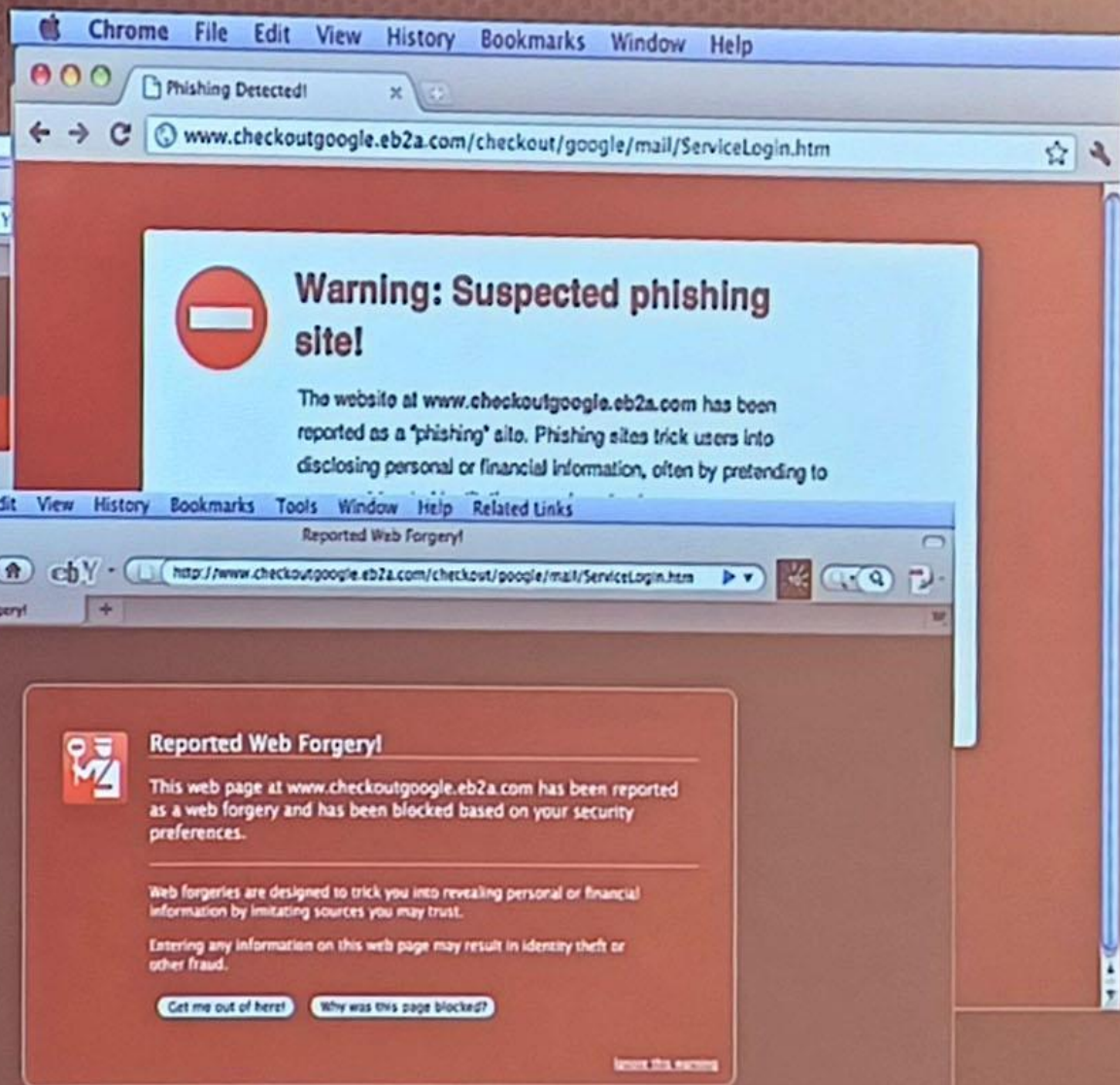
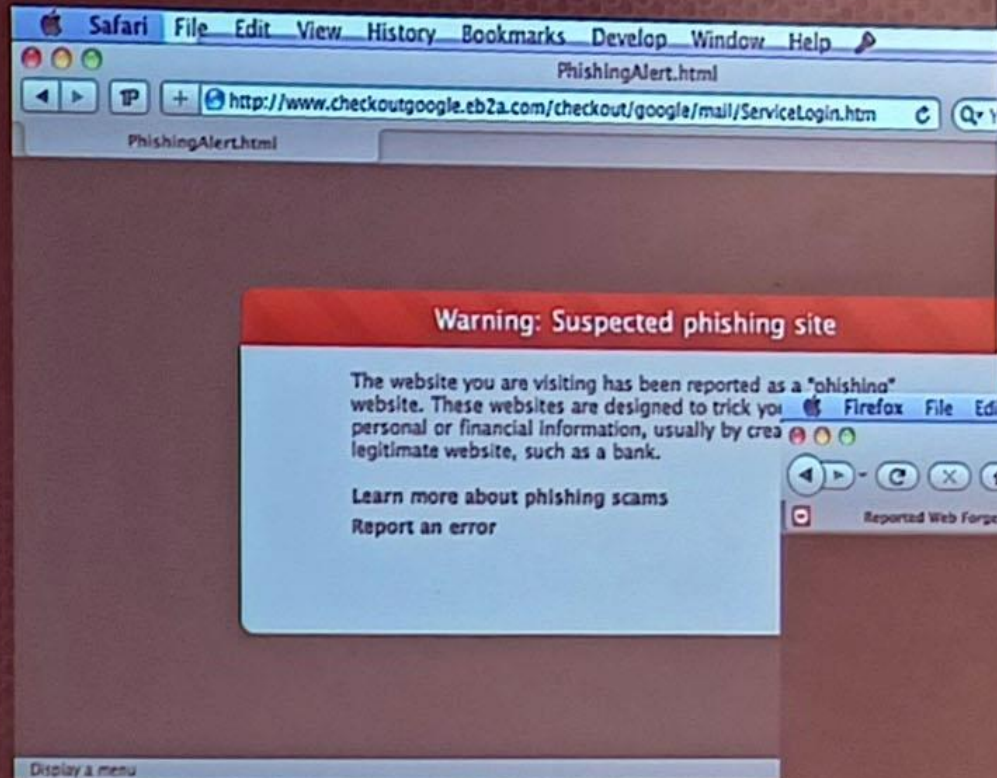
6%

Social networking/
online forums

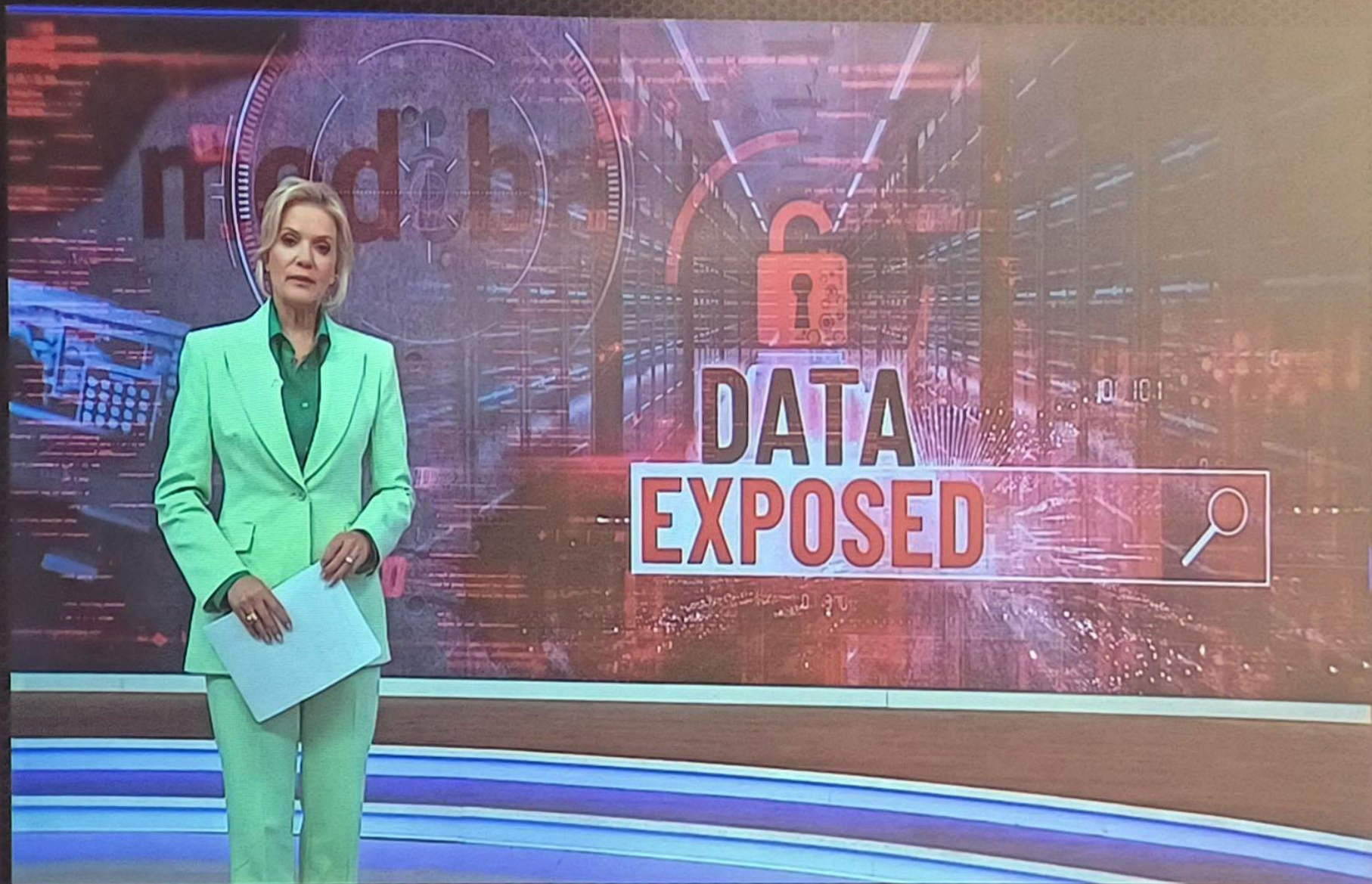
13,428 reports

\$80 million
reported lost

Browsers warn!



- It's been reported



Watch the video (No closed captions)
https://youtu.be/xDNmemSzG_A

medi**i**bank

Check URL =
website address

▪ What's wrong with this?

Sign in to Westpac Online Banking - Westpac

http://www.asuramsalumni.com/%20online.westpac.com.au/esis/Login/index.html

Sign in to Westpac Online Bankin...

Phone Westpac Find a Branch or ATM

I'm searching for... GO

Home Personal Business Corporate About Westpac

Bank accounts Home loans Credit cards Personal loans Insurance Super & Retirement Investments Services Solutions

Westpac Online Banking PHONE 1300 655 505 Register now Email an expert Ask a question

Personal customers Business customers Help

Enter your customer ID (Using your keyboard)

Enter your password (Using your keyboard)

Forgot your password? Clear Sign in

Sign in to Westpac Online Banking - Westpac

http://www.asuramsalumni.com/%20online.westpac.com.au/esis/Login/index.html

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Data loss

Human Error Is the Source of Most Security Breaches

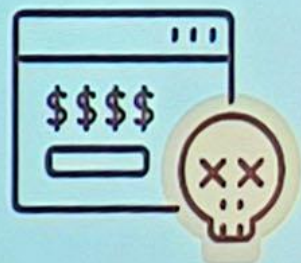


Over **95%** of all security incidents investigated were a result of 'human error'



Poor quality assurance practices lead to a loss of nearly **\$200 billion** for corporations annually

RANSOMWARE



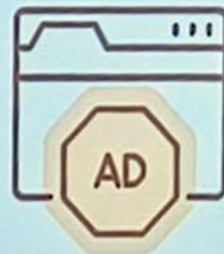
Blackmails you

SPYWARE



Steals your data

ADWARE



Spams you with ads

Types of Malware

WORMS



Spread
across computers

TROJANS



Sneak malware
onto your PC

BOTNETS

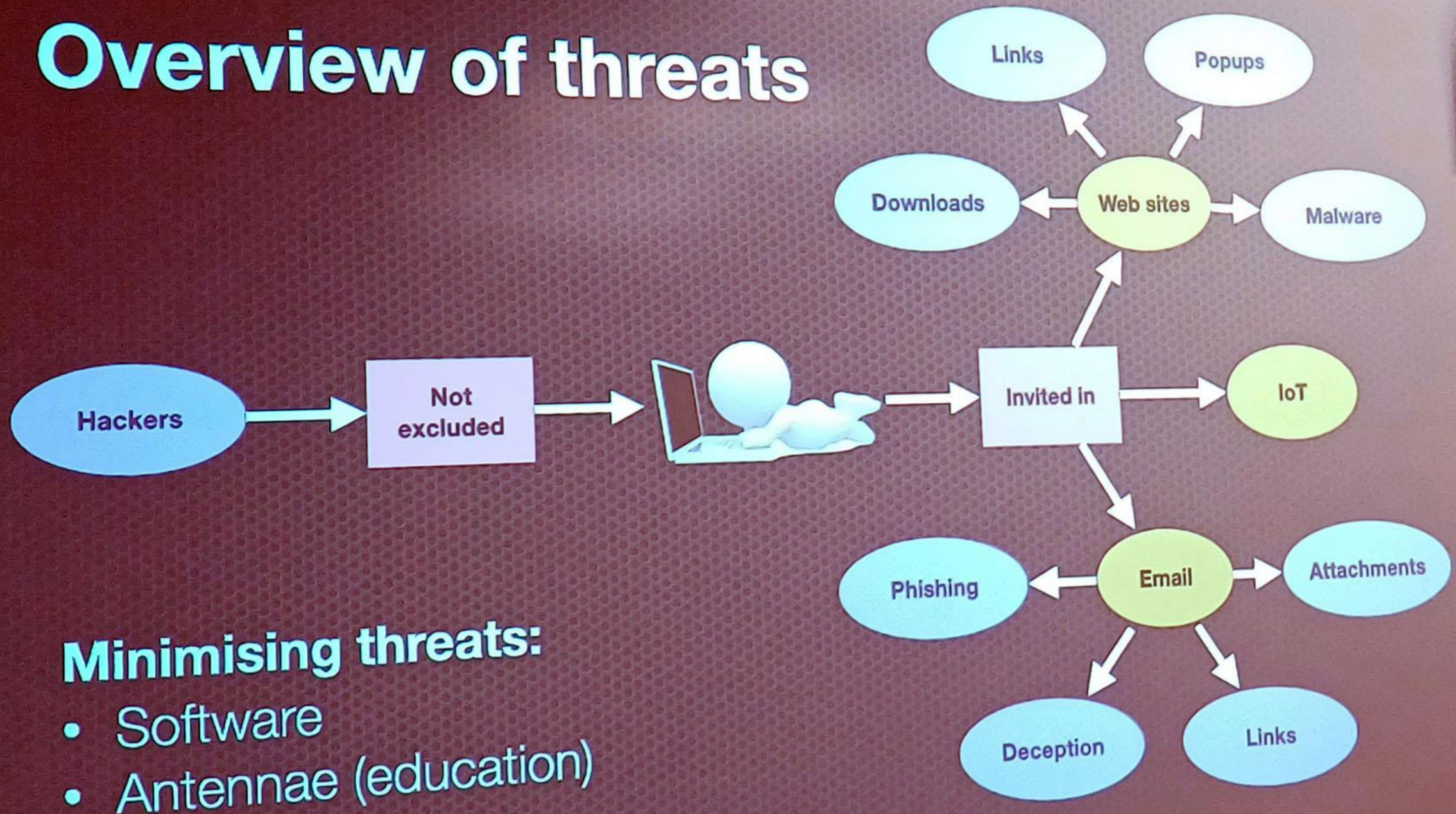


Turn your PC
into a zombie

How do you get it?

- Infected email – when you click on the attachment
- Phishing email – when you go to a weblink
- Infected software (e.g. pirated version of MS Office)
- Someone gains access to your machine or network

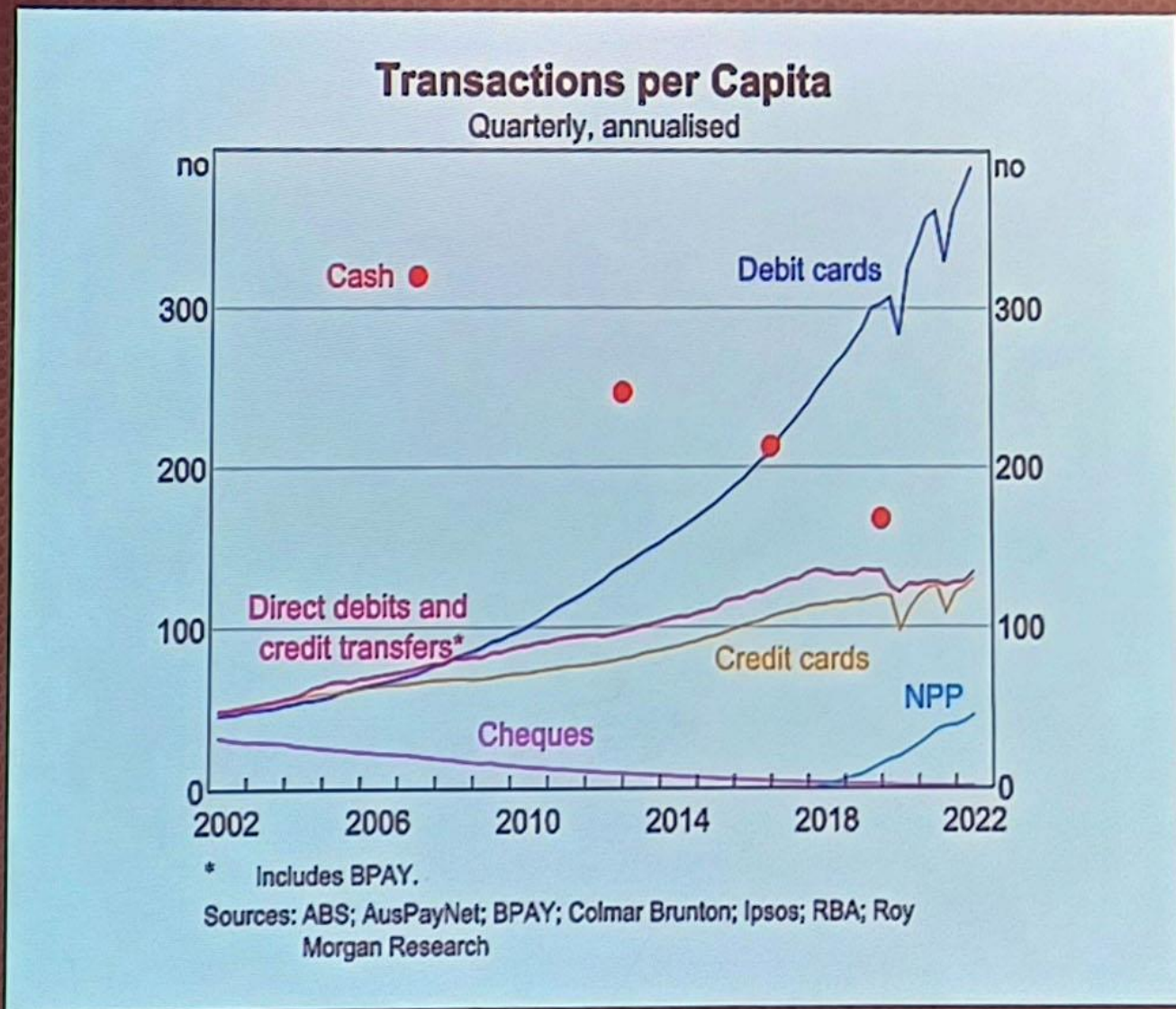
Overview of threats



Minimising threats:

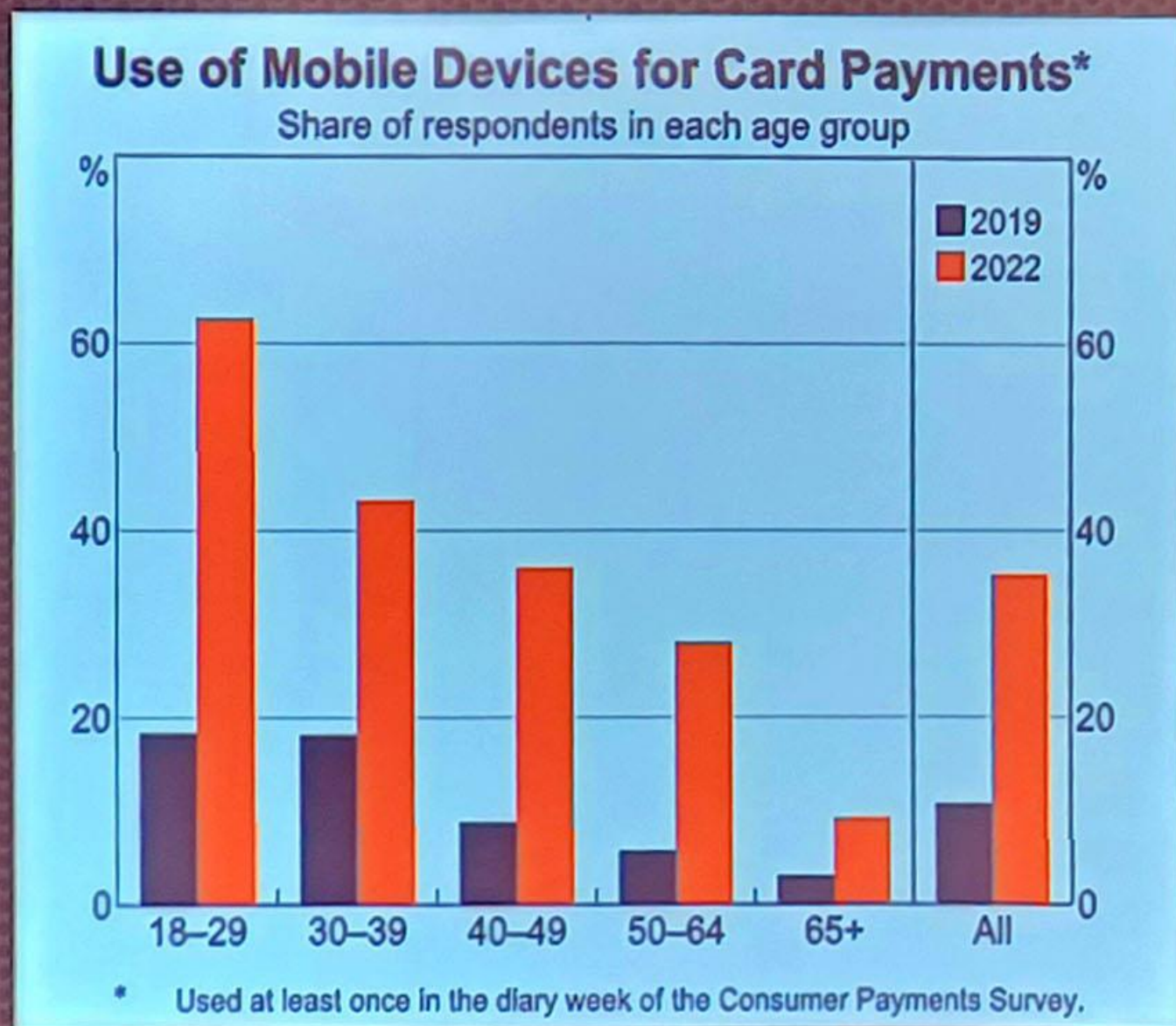
- Software
- Antennae (education)

Decline of cash, cheques



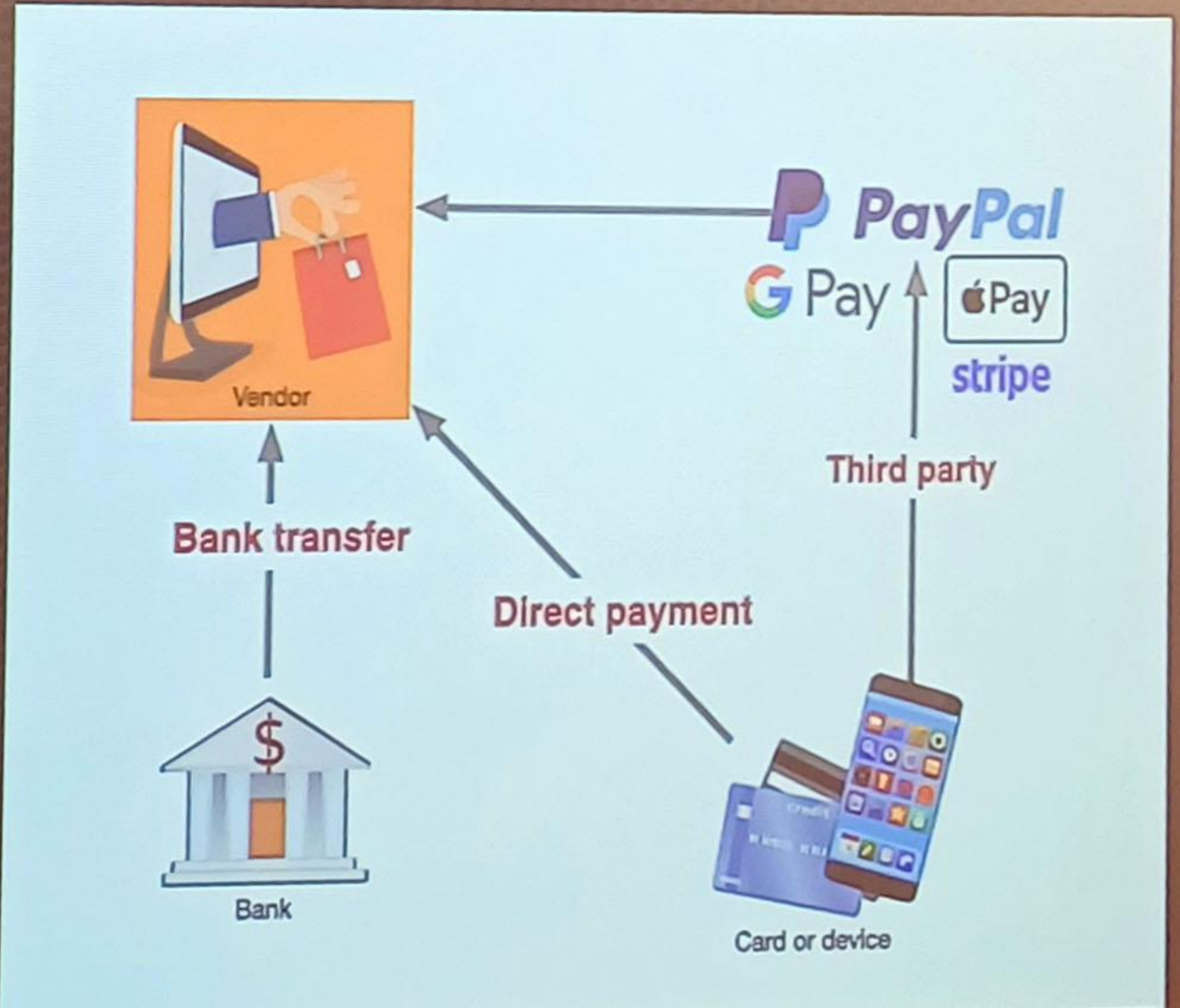
NPP is for business to business

Use of mobile devices

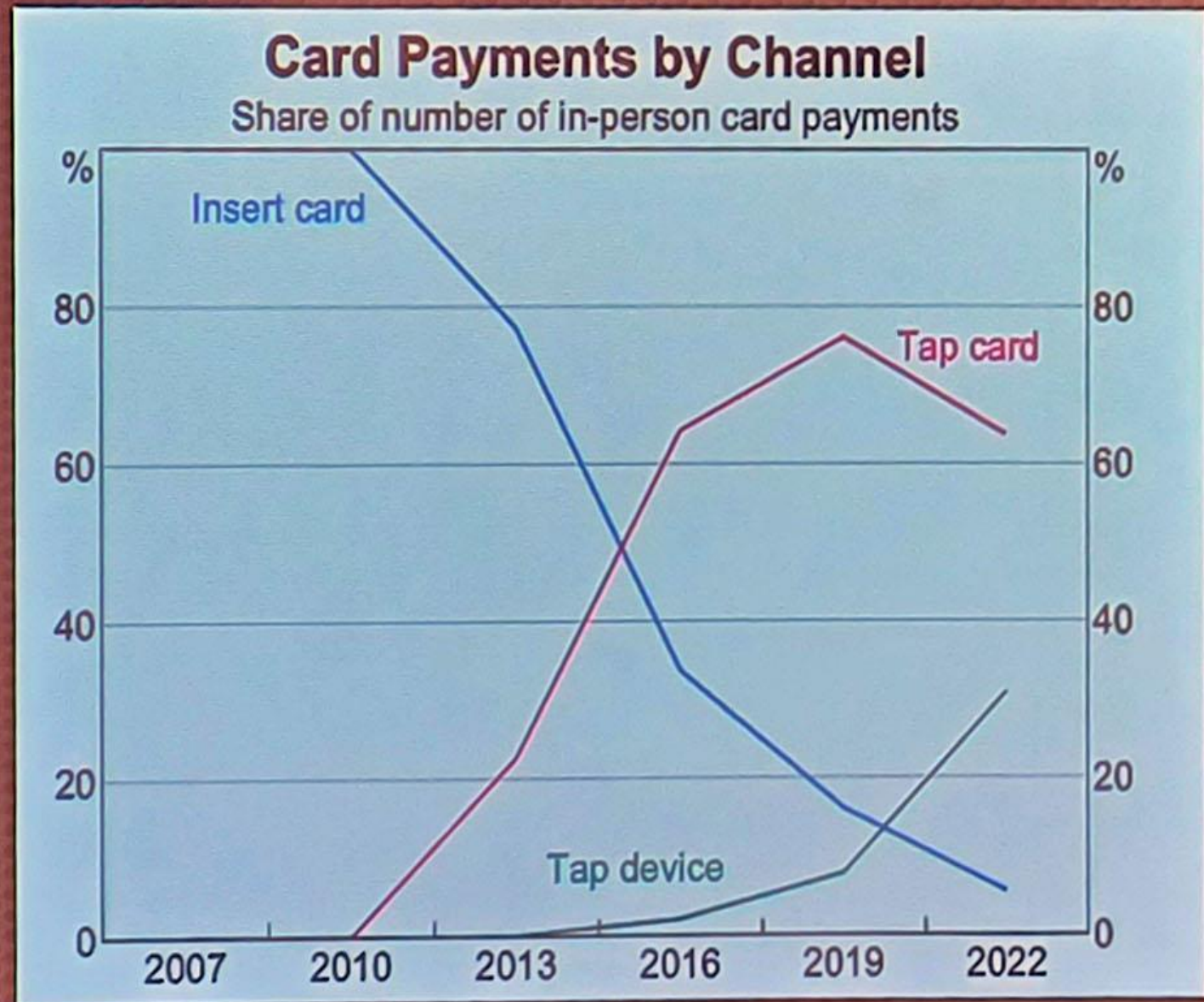


Online payment

- Bank transfer
- BPay
- Direct debit
- Debit card
- Credit card
- Cryptocurrency



In-store payment methods



Most common passwords in Australia

| Number | Password | Time to crack |
|--------|-----------|---------------|
| 1 | 123456 | 1 sec |
| 2 | password | 1 sec |
| 3 | lizottes | 3 hours |
| 4 | password1 | 1 sec |
| 5 | 123456789 | 1 sec |
| 6 | 12345 | 1 sec |
| 7 | abc123 | 1 sec |
| 8 | qwerty | 1 sec |
| 9 | 12345678 | 1 sec |
| 10 | holden | 2 min |

| Number | Password | Time to crack |
|--------|------------|---------------|
| 11 | charlie | 1 sec |
| 12 | 1234567 | 1 sec |
| 13 | qwerty1 | 1 sec |
| 14 | 11111 | 1 sec |
| 15 | dragon | 1 sec |
| 16 | 1234 | 1 sec |
| 17 | 1234567890 | 1 sec |
| 18 | qwerty123 | 1 sec |
| 19 | australia | 6 sec |
| 20 | princess | 1 sec |

Why do you need passwords?

Protect your:

- Accounts
- Devices
- Networks

From:

- Theft of money
- Theft of identity
- Theft of personal or business information
- Cyberattack

How could anyone get my password?

- Someone watching as you type
- Password sent by email or text (no encryption)
- Password vault cracked or password book stolen
- Password stored unencrypted on computer - stolen
- Phishing - you enter it into a bogus site

Principles

- Long: 14 characters or longer
- upper and lower case
- or a good passphrase
- Symbols: 3 or more, not the same
- Not dictionary words

Requirements

- Secure
- Easy to enter
- Easy to remember
- Unique

“Use a small phrase”

IwalkToTheBus1#

