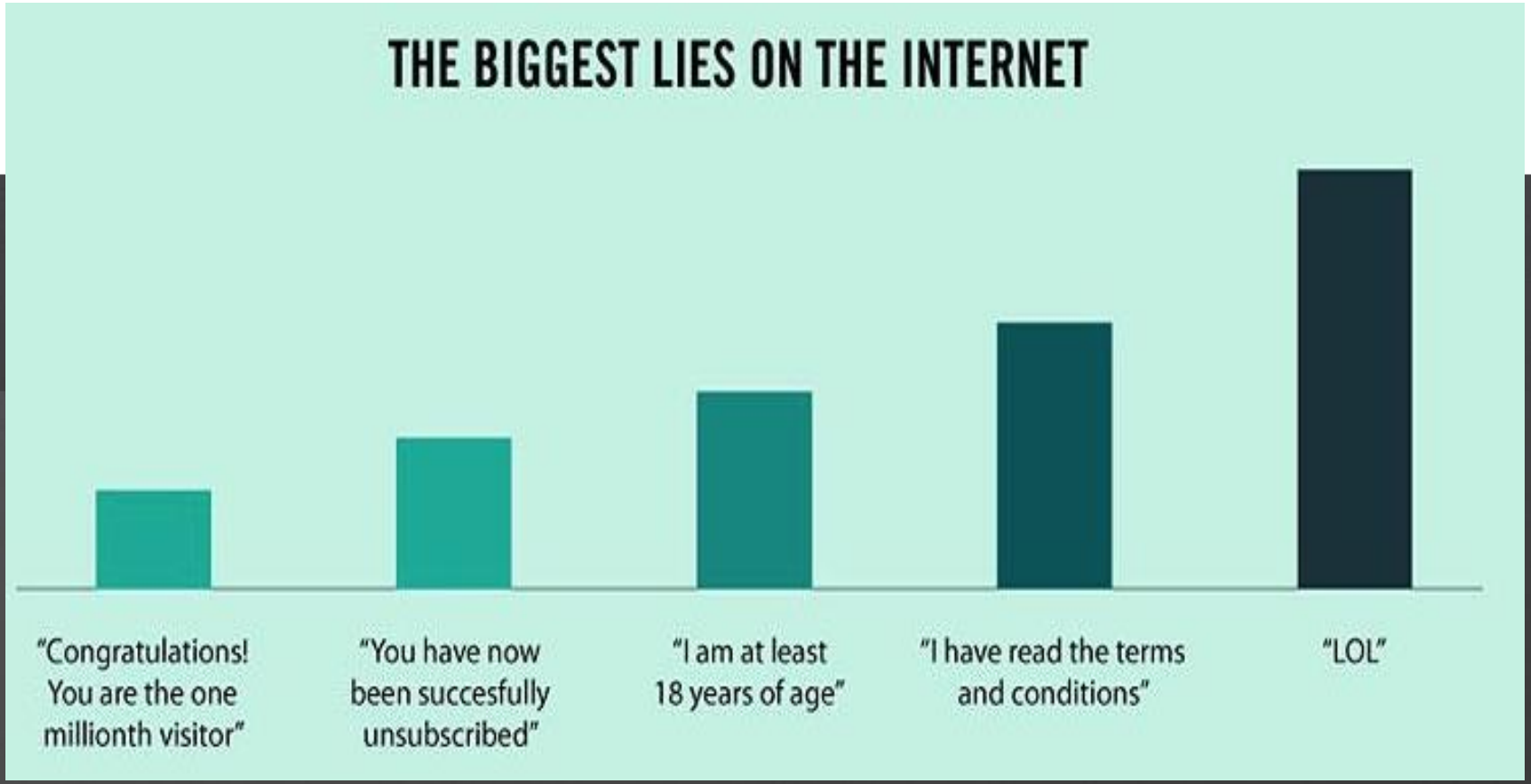
ADJUNCT PROFESSOR NIGEL PHAIR


THE BIGGEST LIES ON THE INTERNET
"Congratulations! You are the one millionth visitor"
"You have now been succesfully unsubscribed"
"I am at least 18 years of age"
"I have read the terms and conditions"
"LOL"

Cyber security

- Traditionally focused on critical infrastructure protection
- The threats are wide ranging
- A focus on resilience rather than protection

Where are the threats coming from

- Nation states
- Activists
- Criminals
- Where else?

What do the bad guys want?

They want…

- Your data
- Your servers
- Your customers

- Maybe they just want to take you down!

Who's behind the breaches?

75%
perpetrated by outsiders.

25%
involved internal actors.

18%
conducted by state-affiliated actors.

3%
featured multiple parties.

2%
involved partners.

51%
involved organized criminal groups.

What tactics do they use?

62%
of breaches featured hacking.

51%
over half of breaches included malware.

81%
of hacking-related breaches leveraged either stolen and/or weak passwords.

43%
were social attacks.

14%
Errors were causal events in 14% of breaches. The same proportion involved privilege misuse.

8%
Physical actions were present in 8% of breaches.

Who are the victims?

24%

of breaches affected financial organizations.

15%

of breaches involved healthcare organizations.

12%

Public sector entities were the third most prevalent breach victim at 12%.

15%

Retail and Accommodation combined to account for 15% of breaches.

What else is common?

66%

of malware was installed via malicious email attachments.

73%

of breaches were financially motivated.

21%

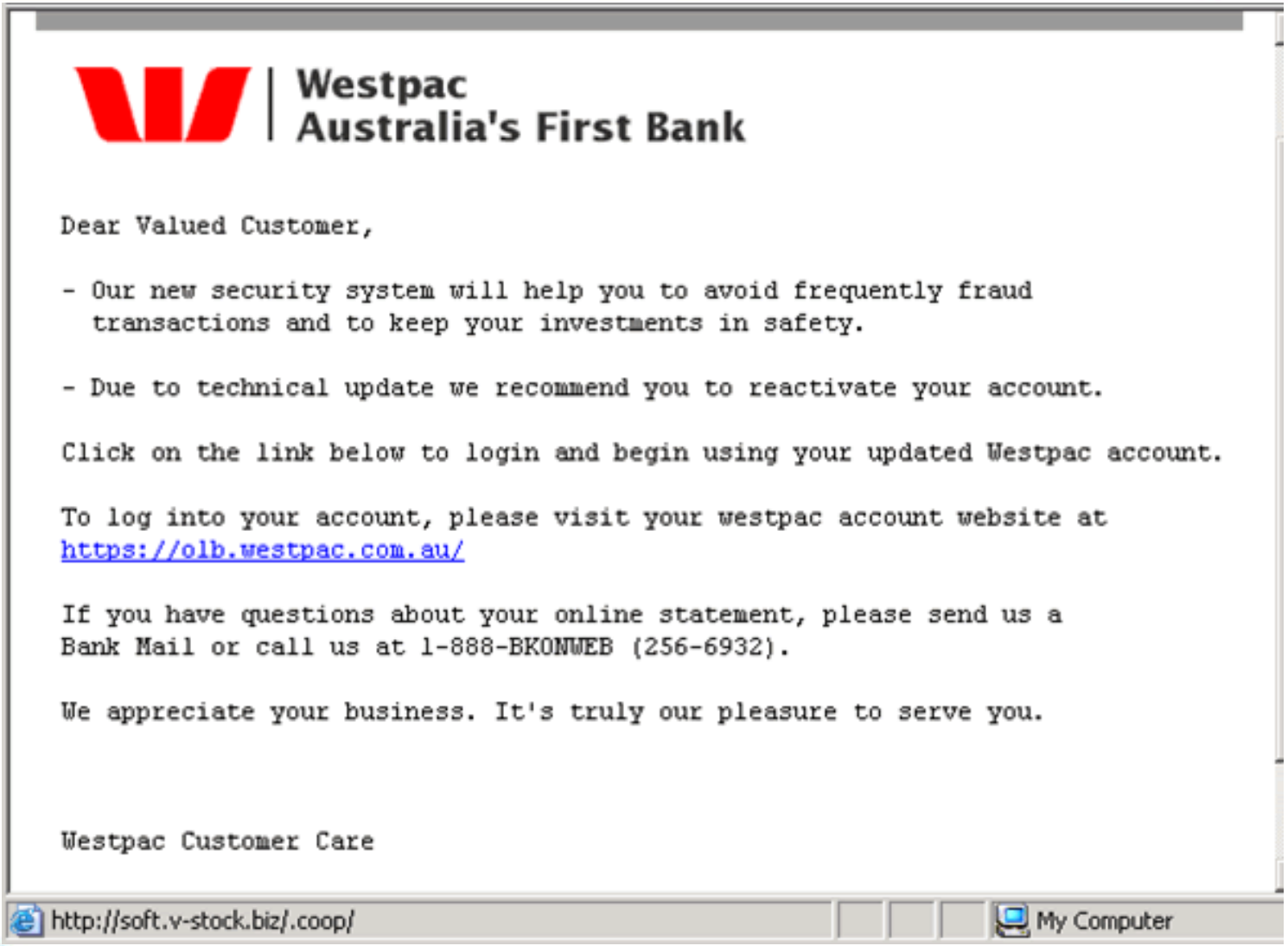
of breaches were related to espionage.

27%

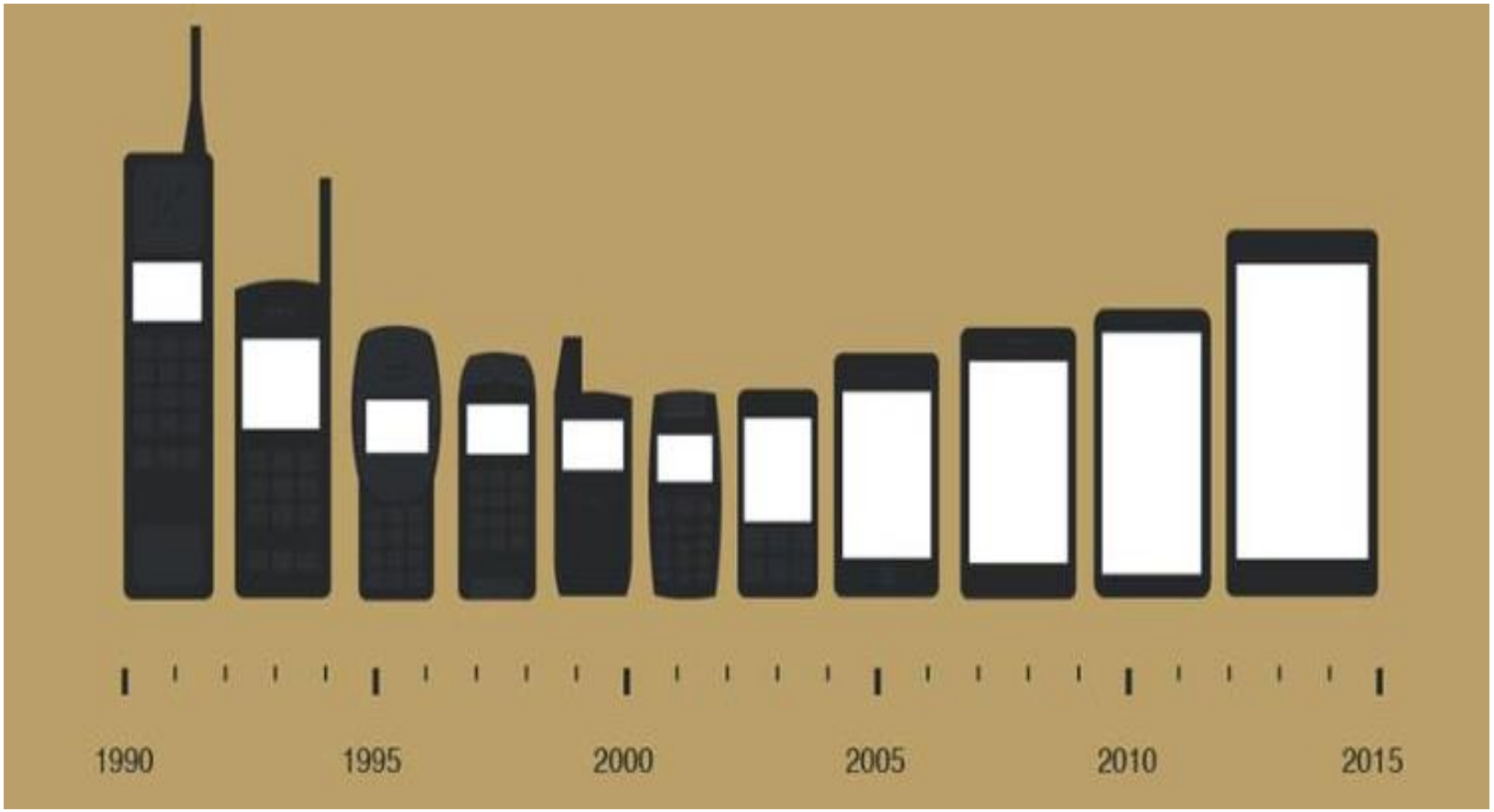
of breaches were discovered by third parties.

But this is not a technical problem…

- Employees, customers and clients are targeted
- Be wary of what you post online, both **corporately and privately**


Westpac
Australia's First Bank
Dear Valued Customer,
- Our new security system will help you to avoid frequently fraud transactions and to keep your investments in safety.
- Due to technical update we recommend you to reactivate your account.
Click on the link below to login and begin using your updated Westpac account.
To log into your account, please visit your westpac account website at
https://olb.westpac.com.au/
If you have questions about your online statement, please send us a Bank Mail or call us at 1-888-BKONWEB (256-6932).
We appreciate your business. It's truly our pleasure to serve you.
Westpac Customer Care
http://soft.v-stock.biz/.coop/
My Computer

Mobile devices



It’s all about…

- Know your information
- Know your technology
- Know your staff

Case Studies

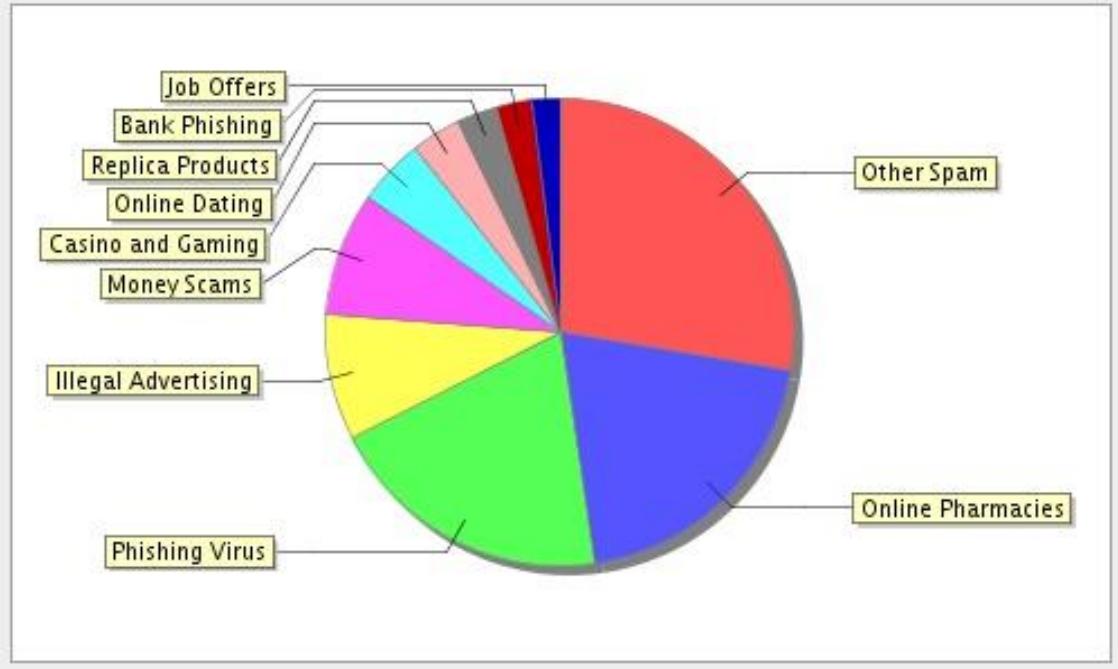
- Banking & Finance
- Healthcare

Governance

- Frameworks – ISO 2700x, APRA PPG 234, ASIC Report 429
- Adopting governance practises – the ‘if not – why not’ approach
- It’s a business issue, not an IT issue
- A focus on resilience rather than protection

It's all about trust, safety and confidence

What happens when consumers lose trust in the online environment?



It’s all about risk…

- How do I measure security RoI?
- Should I buy insurance?
- How do I stay informed?

So what do we do?

focus on the consequences

(and incident response)

Questions?

e) nigel.phair@canberra.edu.au

p) _61 408 437056