

Information Assurance for the 21st Century: The Human Firewall

CILT 10/2012
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Information Assurance?

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- Information Systems since 1999
- Information Security since 2005
- Southampton to Cambridge
- Security - Management - Exploitation

Objectives



In the news.... StuxNet

- 2010
- US / Israeli (Alleged...)
- Nuclear Sabotage
- Siemens SCADA systems
- 'Sniper' targeting
- USB sticks and lax processes

In the news.... Flame

- 20x StuxNet & Prolific
- Targeting Middle East
- 650,000 lines
- KeyLogger
- Screenshots
- Microphone
- Bluetooth
- C&C infrastructure
- Self Destruct
- A 'Cyber Weapon'

In the news....

WikiLeaks

- Late 2009 / Early 2010
- 251,287 United States diplomatic cables
- 400,000 classified army reports from the Iraq War
- 90,000 army reports from the war in Afghanistan
- Two videos



Origin of security risk?

- Anyone with access to a computer

Objectives



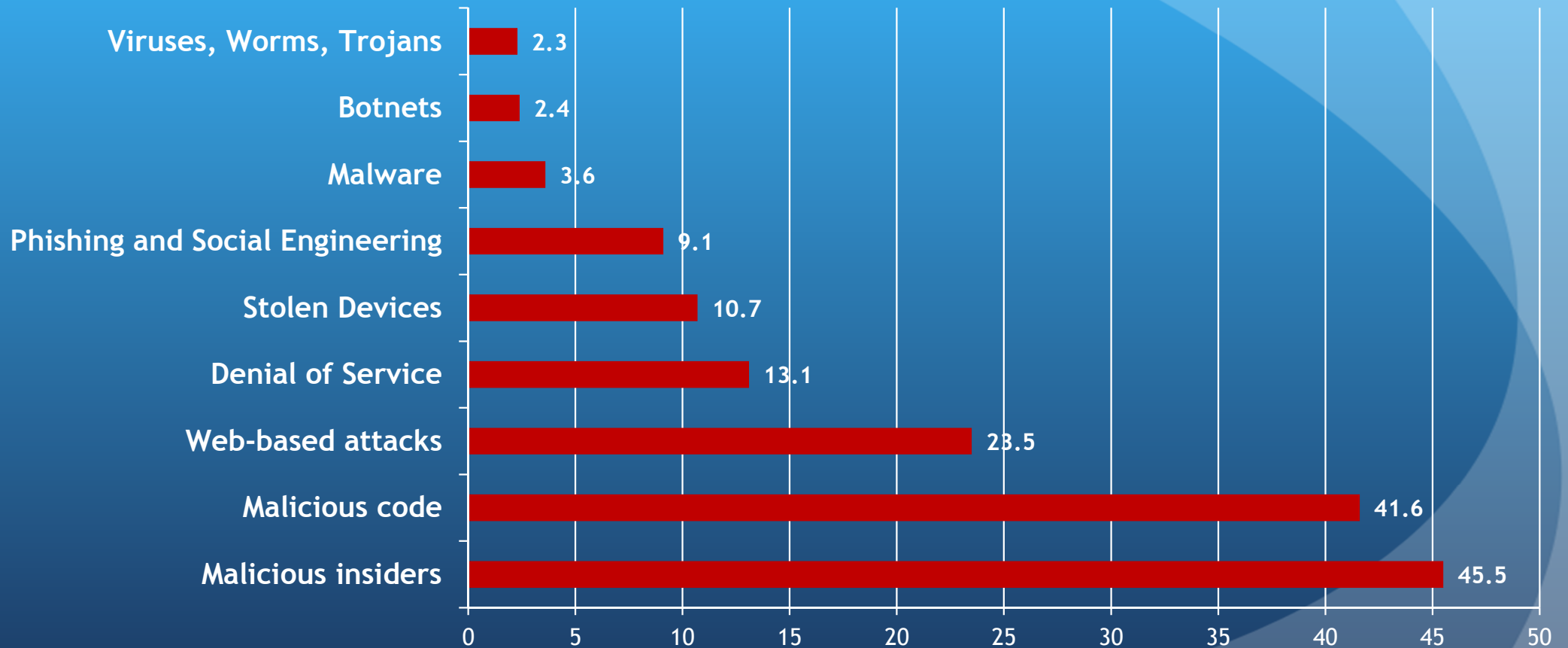
Why you?

- Who you are / what you represent
- What you (might) have
- Who you (might) associate with
- Technical environment
- Insider
- None of the above - an accident!

In 2012 Large Orgs...

- 8% of IT Budget
- 93% been breached
- Cost of worst £110k-£250k
- 67% expect more breaches
- 80% have no security ROI

Average Days to Recover



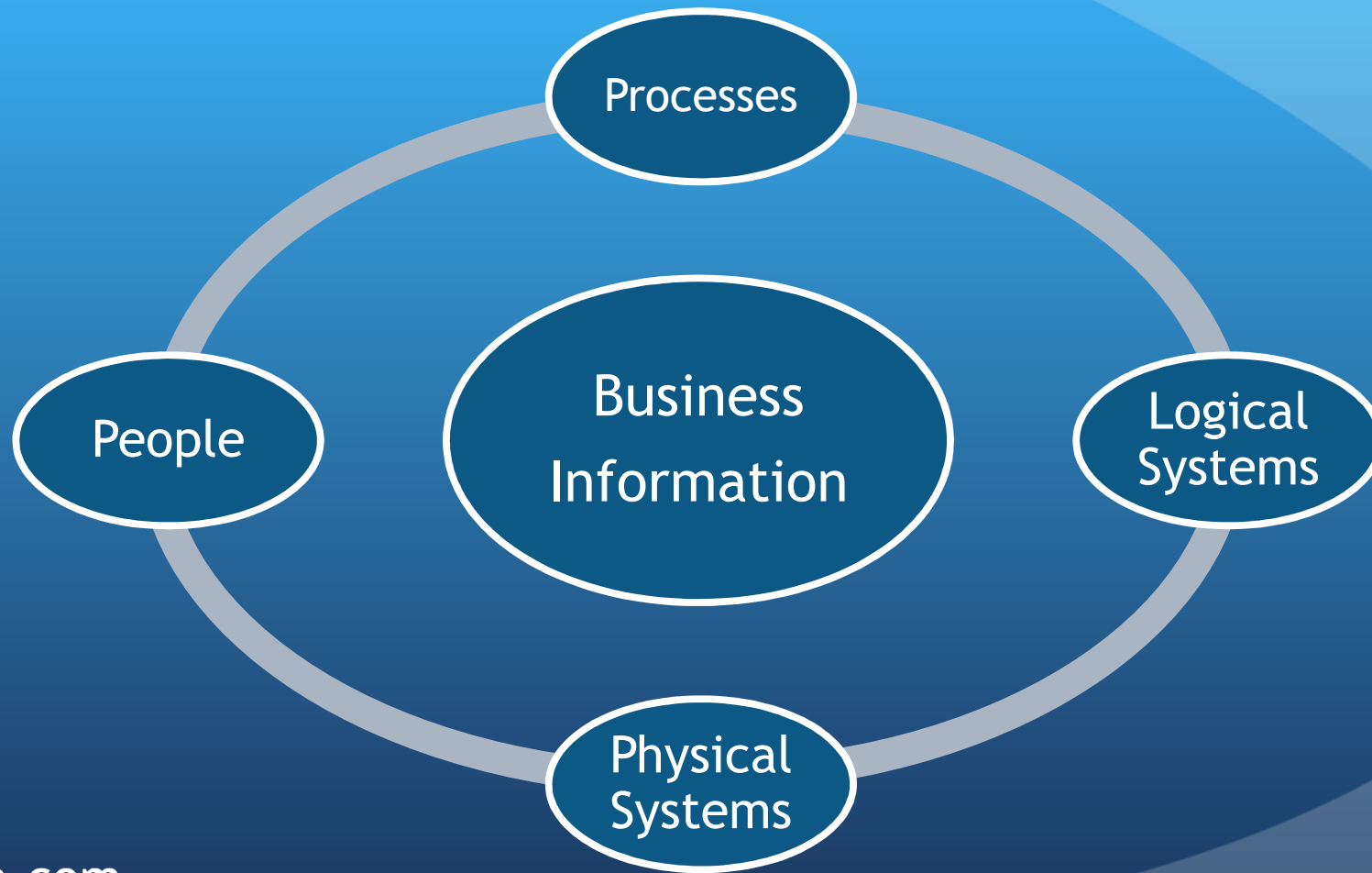
Corporate Security

- Intimidating
- Barrier
- Advantage?

Objectives



Defences



Driving force

- Who knows your business best?
- Who forms Strategy?
- Who gives direction?
- IT or Business?

New Approach

Security as a Culture
Supported by Technology

Business Assets



What can you do?

- Your assets
- Value to you
- Value to others
- Response to loss

Look Outside In

- What is of interest to another party?
- What might the threat be?
- How can you mitigate threats?

Take away

- Dispel the myth:
 - This is a real threat, posed in professional capacity
- Enable you to take action:
 - Identify your Business Assets & their value
 - Create Security Culture to protect your assets

Human Firewall?

Best Defence & Biggest Risk

ZEUS...

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Questions?

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Thank you

IP Seminar,
15 Nov 2012

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