



Information governance and cake

15 November 2016



@AdaptaforNFP

Adapta Consulting

We are:

- A specialist information systems consultancy
- We only work with membership organisations, charities, associations, trusts and others in the NfP sector
- We are completely supplier-independent
- Our consultants have held senior positions in a broad range of different organisations
- Our advice and guidance is based on practical experience gained over many years.

Programme

14.00	Arrival and welcome Iain Pritchard – Adapta Consulting
14:05	The Data Protection Act Fiona Brookes, Adapta Consulting Fiona will give an overview of the Data Protection Act and its implications.
15.00	Case studies Richard Norman, Director of Information Governance & Risk Management, British Council Martyn Croft, CIO, Salvation Army UK Territory
16:00	Discussion and feedback A round table discussion and feedback to draw our further best practice learning.
16.45 - 17.00	Review and close Iain Pritchard – Adapta Consulting

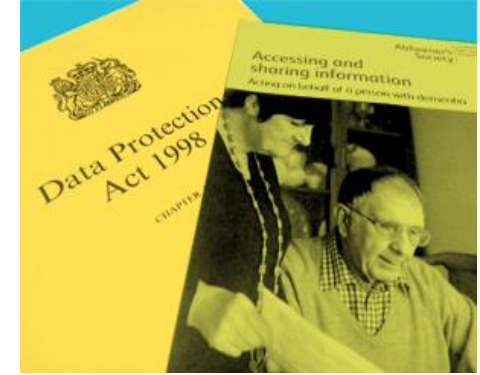
The Data Protection Act

Fiona Brookes

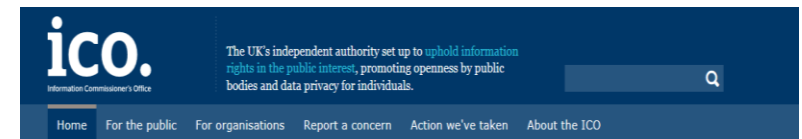
Associate, Adapta Consulting



Introduction



- Data Protection Act 1984 and 1998 – in place for 30+ years
- Governed by the Information Commissioner
- Provides rules for organisations that collect and use personal information – applies to manual and electronic records
- EU General Data Protection Regulation (GDPR) comes into force in May 2018 We will have to comply regardless of Brexit
- GDPR builds on DPA but there are significant changes too



When things go wrong

- Investigation
- Enforcement
- Fines – up to £500k
- Criminal prosecution
 - Serious contravention of the Act
 - Causing substantial damage and / or distress
 - Deliberate or should have know better



FINED!



The screenshot shows the ICO website's 'Action we've taken' page. The header includes the ICO logo and a navigation menu with 'Home', 'For the public', 'For organisations', 'Report a concern', 'Action we've taken', and 'About the ICO'. The main content area is titled 'Enforcement' and shows a list of 188 enforcement actions. A filter sidebar on the left allows users to filter by 'Type' (All, Undertakings, Monetary penalties, Enforcement notices, Prosecutions) and 'Sector' (All). The list of actions includes:

- Data breach by historical society**: 11 November 2016, Monetary penalties. The ICO has fined a historical society after a laptop containing sensitive personal d...
- Assist Law Limited**: 10 November 2016, Monetary penalties, Legal. Assist Law, based in Weston-super-Mare, Somerset, made unsolicited marketing c...
- Royal Bank of Scotland**: 08 November 2016, Undertakings, Finance insurance and credit. An undertaking to comply with the seventh data protection principle has been sign...

The URL in the browser's address bar is <https://ico.org.uk/action-weve-taken/enforcement/assist-law-limited/>.

Everyone's got to stick to the law, and if the law's been broken then we will act
Information Commissioner, 2 September 2015

When things go wrong ... some examples

- The Nursing and Midwifery Council ... **lost dvds** ... unencrypted.. £150k fine
- North East Lincolnshire Council ... missing **unencrypted memory stick** ...£80k fine
- Greater Manchester Police ... **stolen USB stick** ... unencrypted, no password protection ... £150k fine
- Royal Veterinary College ... **loss of a memory card** ... signed undertaking
- British Pregnancy Advice Service ... **hacked database** ... £200k fine
- Surrey County Council ... **misdirected emails** with attached files ... not encrypted or password protected ... £120k fine
- North Somerset Council ... sent **unencrypted emails** with personal data to wrong NHS employee ... £60k fine



The screenshot shows the ICO website interface. The header includes the ICO logo and the text: "The UK's independent authority set up to uphold information rights in the public interest, promoting openness by public bodies and data privacy for individuals." The navigation menu includes: Home, For the public, For organisations, Report a concern, Action we've taken, and About the ICO. The main content area is titled "Data breach by historical society" and includes the following details:

- Date: 11 November 2016
- Type: Monetary penalties

The text of the notice states: "The ICO has fined a historical society after a laptop containing sensitive personal data was stolen whilst a member of staff was working away from the office. The laptop, which wasn't encrypted, contained the details of people who had donated artefacts to the society. An ICO investigation found the organisation had no policies or procedures around homeworking, encryption and mobile devices which resulted in a breach of data protection law."

At the bottom, there is a link to download the "Monetary penalty notice - historical society" PDF (2.71MB).

The Act

Processing -includes obtaining, recording, retrieval, consultation, holding, disclosing, using

Personal data - information, facts or opinions, about a living individual which identifies the individual concerned - the data subject

Sensitive personal data - information or opinions about a living individual and relating to:

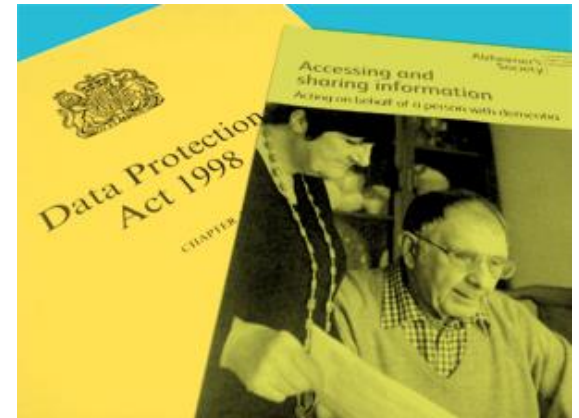
- - Racial or ethnic origin
 - Political opinions / trade union membership
 - Religious beliefs
 - Health
 - Sex life
 - Criminal proceedings or convictions



Complying with the Act

When processing personal and sensitive personal data we have to comply with the 8 principles:

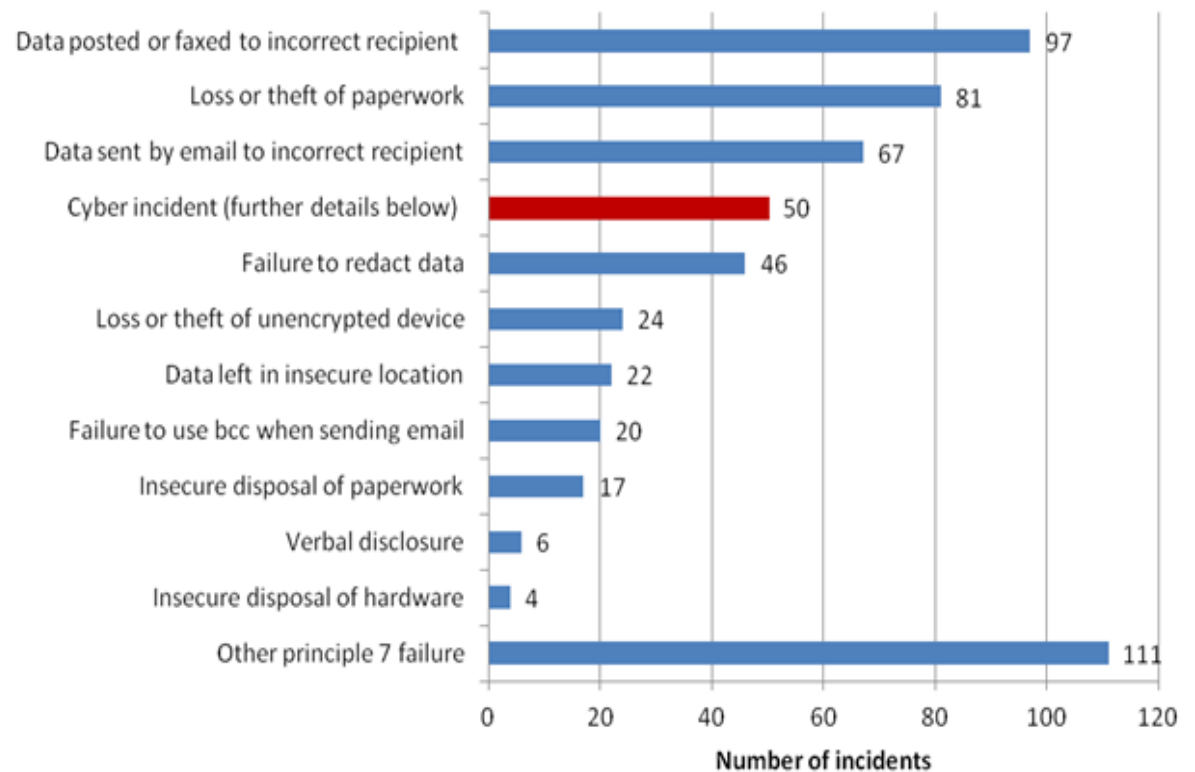
1. Data must be collected lawfully and fairly
2. It must be used only for specified purposes
3. The quantity of data collected should be appropriate
4. The data should be accurate and up to date
5. It should be kept only as long as necessary
6. It should be processed in accordance with the rights of those it concerns
7. It should be kept securely
8. It should not be transferred out of the EEA unless it is to an area which has similar standards



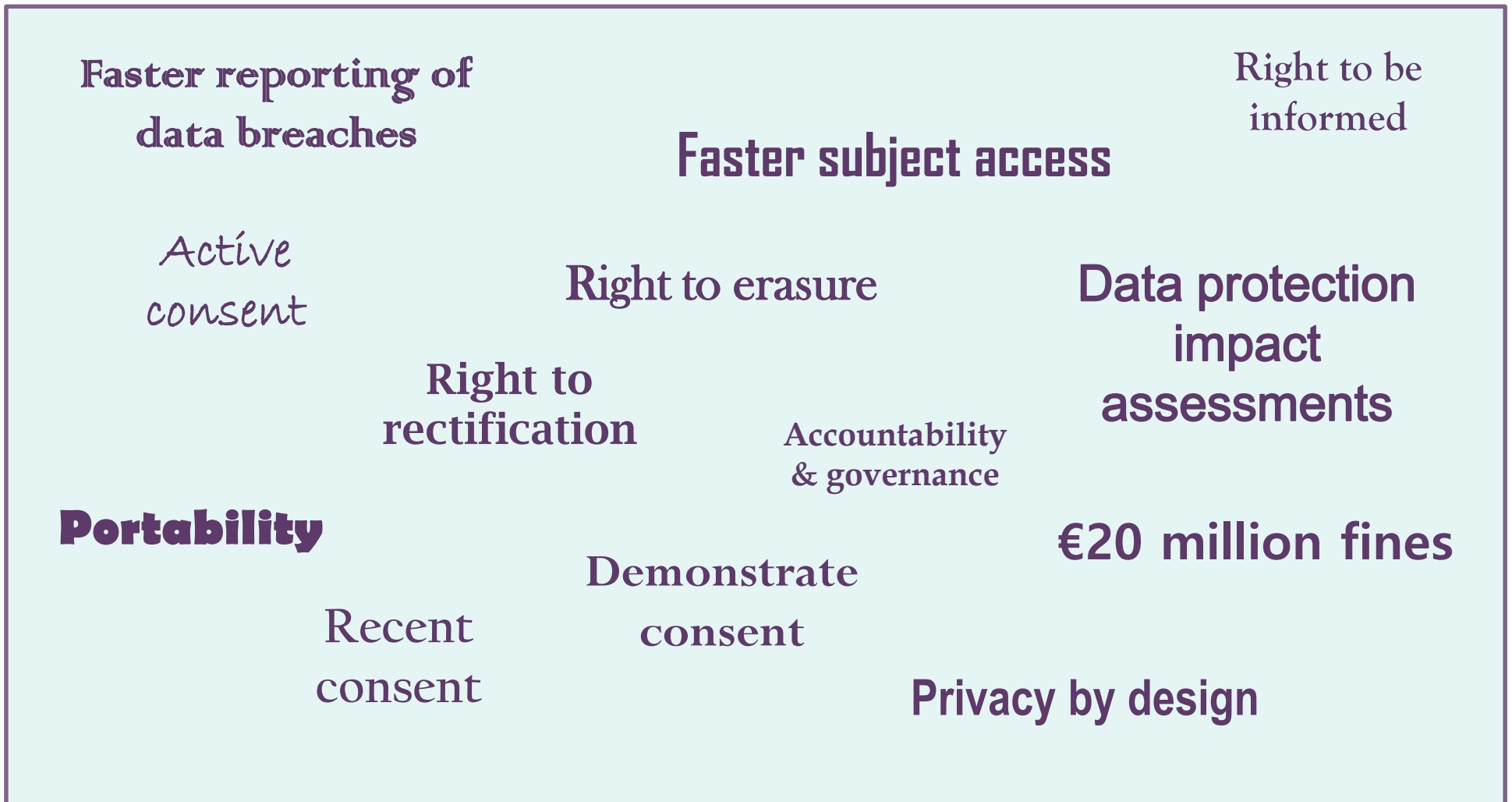
Key areas of risk



- Personal data – accuracy, appropriate, up to date, kept only as long as necessary
- Remote working
- Human error
- Volunteers
- Transferring data
- Emails
- Data processors



The GDPR changes



'If the UK wants to trade with the single market on equal terms we would have to prove "adequacy" – in other words UK data protection standards would have to be equivalent to the EU's General Data Protection Regulation framework starting in 2018.' ICO

The consequences of non compliance

- Reputational damage
- ICO enforcement notice
- ICO fines of up to £500k

The benefits of compliance

- Improved business processes
- Less data, more accurate and up to date data
- Supporters' data is more secure
- Peace of mind



There is a danger here of blackening a whole sector. Charities seem to be becoming the new dirty word, and that clearly isn't fair. But the rules on data protection and the rules about privacy and electronic communications apply to all who are processing data, whether businesses or charities. Everyone's got to stick to the law, and if the law's been broken then we will act
Information Commissioner, 2 September 2015

Minimising the risk of non compliance

- Compliance review – data handling processes
- Implement appropriate policies & procedures
- Tell people what you are doing with their personal data
- Encrypt all portable devices
- Staff & volunteer training
- Plan & prepare for GDPR



'A key part of data protection legislation is to defend the rights of vulnerable people. Companies and organisations have a duty to keep people's data safe and are not allowed to simply hand out or consult on personal information without proper care or an individual's permission. In this way the DPA plays an important part in protecting vulnerable people' Judith Jones, ICO

Information Risk Management Frameworks and Certifications

Information Governance and Case
15 November 2016

Richard Norman

CISM, CRISC, CISA, CGEIT, FAIR Institute Charter Member



There is a high risk of a virus infection!

H	Orange	Red	X
M	Green	Orange	Red
L	Green	Green	Green
	L	M	H



Very Common

- Frustrated security team
- Frustrated management
- Information security spend led by vendors, other organisations etc.
- very difficult to rank risk scenarios for treatment
- Prioritisation by crisis
- Information security viewed as a 'drag' on the business

FAIR methodology

Factor Analysis of
Information Risk is a
quantitative risk
assessment methodology
to help address this.



High?

Medium?

Low?



High?

Medium?

Low?



High?

Medium?

Low?



High?

Medium?

Low?

The Bald Tire Scenario Analysis

Identify the components in this scenario:

- Threats
- Vulnerabilities
- Risk

Asset

- Risk depends on the ASSET
- How many ASSETS did you consider?
- What is/are the ASSET/S?
- The ASSET is the bald tire

Threat

- Risk depends on the THREAT
- How many THREATS did you consider?
- What is/are the THREAT/S?
- The THREAT is the earth and the force of gravity that it applies

Vulnerability

- Risk depends on the VULNERABILITY
- How did you consider VULNERABILITY?
- VULNERABILITY depends on the
THREAT
- The potential VULNERABILITY is the
frayed rope

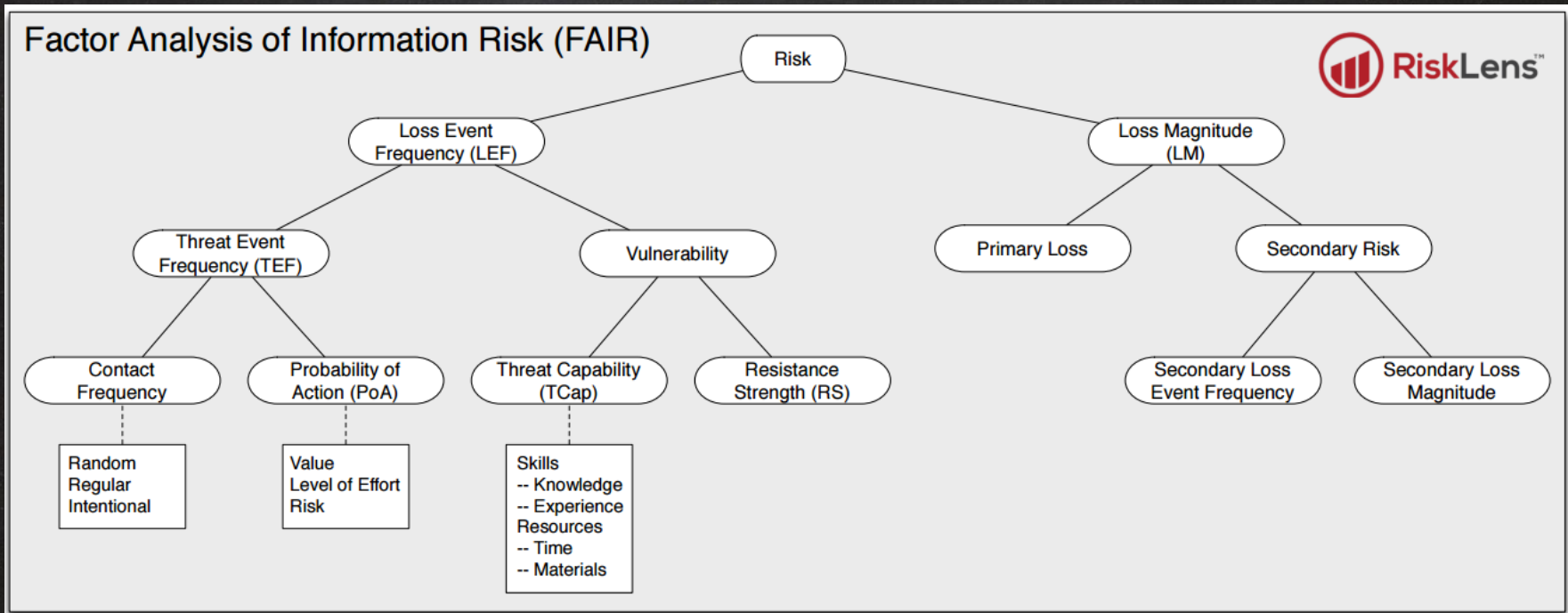
RISK

The probable
frequency and
probable impact of
future loss

Risk Analysis

- Risk is a *derived value*
- Risk is a *probability* issue
- Risk has both a frequency and a *magnitude* component
- The fundamental nature of Risk is *universal*, regardless of context

FAIR Ontology



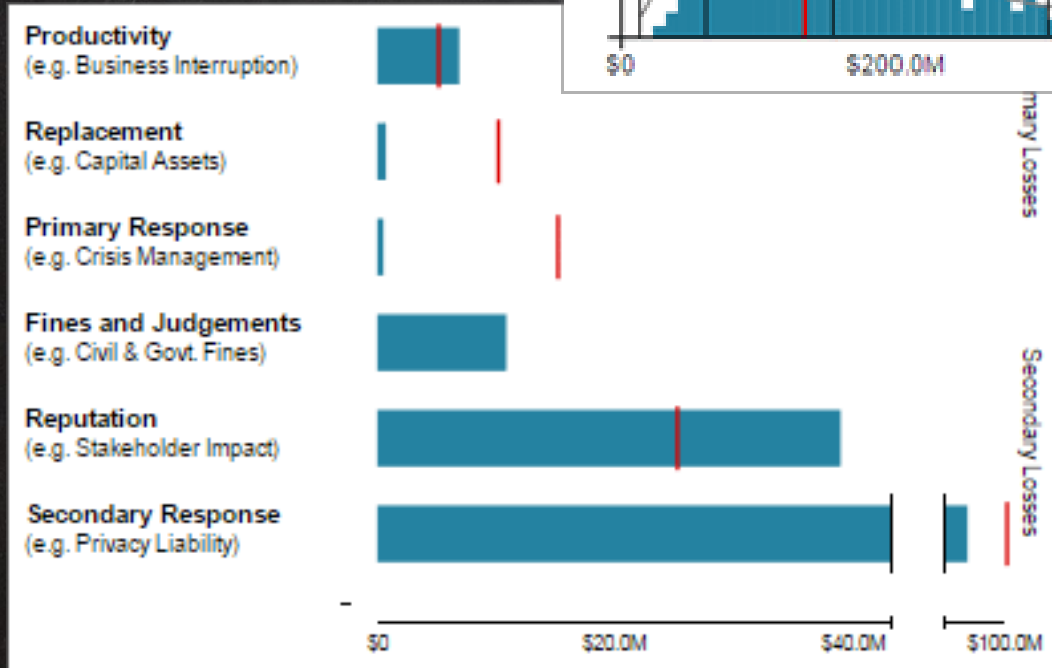
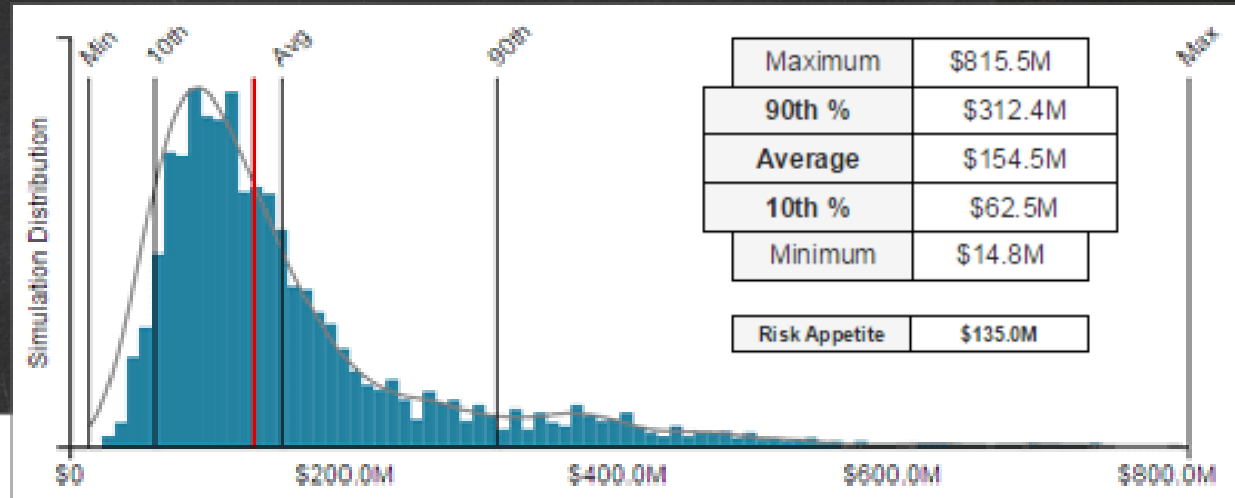
Open & Accessible

- FAIR adopted by The Open Group
- Training and certification
- Can be programmed in Excel
- Helps 'techies' talk in 'business' terms
- Flexible & reusable



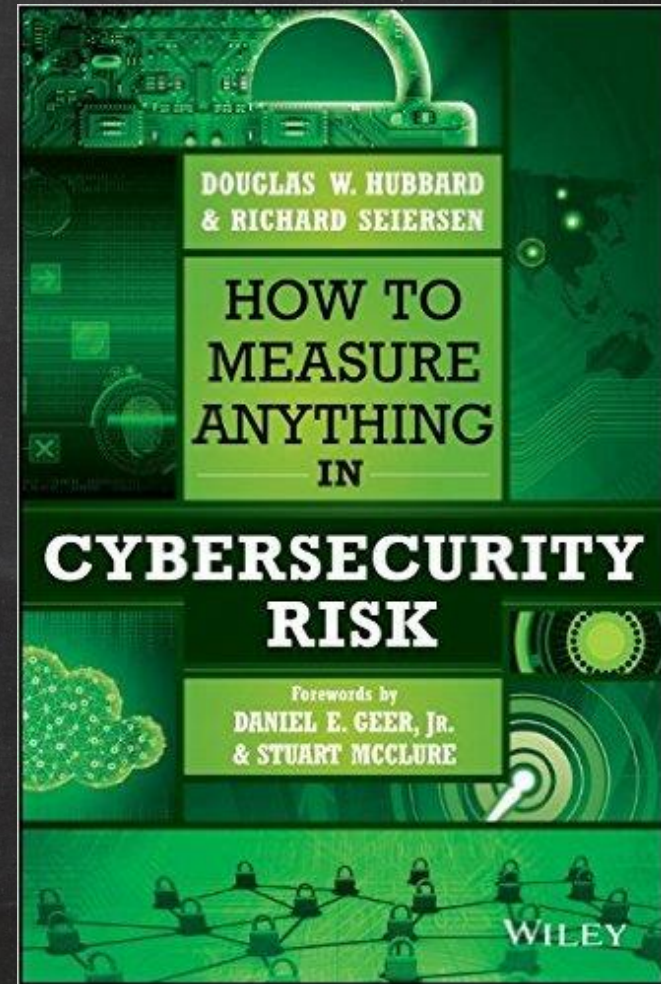
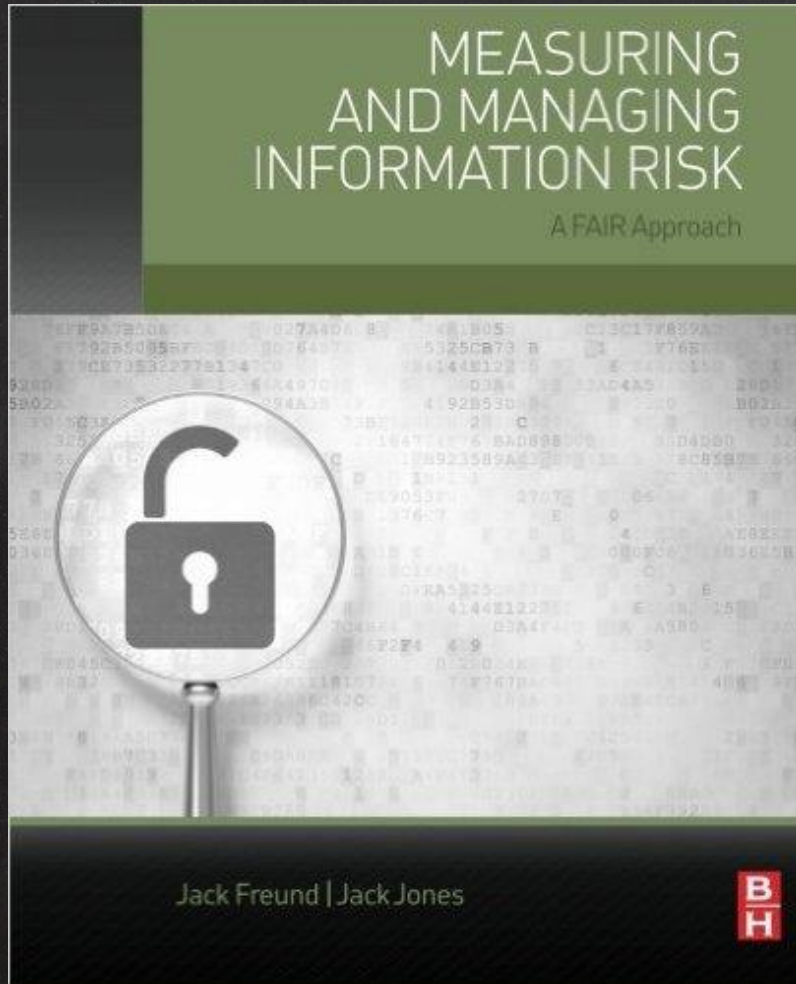
<http://www.opengroup.org/subjectareas/security/risk>

Or commercial



<http://www.risklens.com/>

Further Reading



CRISC

Certified in Risk and Information System Controls

Benefits for organisations:

- Greater understanding of IT risk and how it relates to whole organisation
- More effective organisational risk management plans
- Common organisational perspective and language about IT risk

CRISC



Designed for risk and information controls professionals

20,000+

CERTIFIED WORLDWIDE
SINCE INCEPTION



2,400+

are employed as the **CEO, CFO, CISO, CIO** or equivalent
EXECUTIVE POSITION



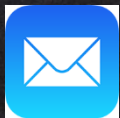
3,200+

are **SECURITY DIRECTORS** or
**CHIEF COMPLIANCE/RISK/
PRIVACY OFFICERS**



RANKED AMONG THE
TOP TWO-PAYING
CERTIFICATIONS
FOR 2016²

QUESTIONS?



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Information Security

in the third sector

Martyn Croft

CIO, The Salvation Army UK Territory
Co-founder, Charities Security Forum

Charities don't need security...

...do they?

The Salvation Army

a Church and a Charity

SOUTHSIDE CHURCH OF CHRIST

**GOD NEVER
TURNS OFF HIS
SECURITY
SYSTEM**

**WORSHIP ASSEMBLY 9:00 AM EVENING SERVICES :00 PM
BIBLE CLASSES 10:30 AM WEDNESDAY SERVICES 7:00 PM**

OFFICES



IN THIS CORNER, WE HAVE
FIREWALLS, ENCRYPTION,
ANTIVIRUS SOFTWARE, ETC.
AND IN THIS CORNER,
WE HAVE DAVE!!

DATA SECURITY

HUMAN
ERROR

EXPERT
↓

USER SKILLS

EVERYONE'S AN IT EXPERT

“UK Charities hold information on 3 in 4 people. How would YOU feel if your personal data was stolen and put on the internet for all to see?”

giveaday.co.uk

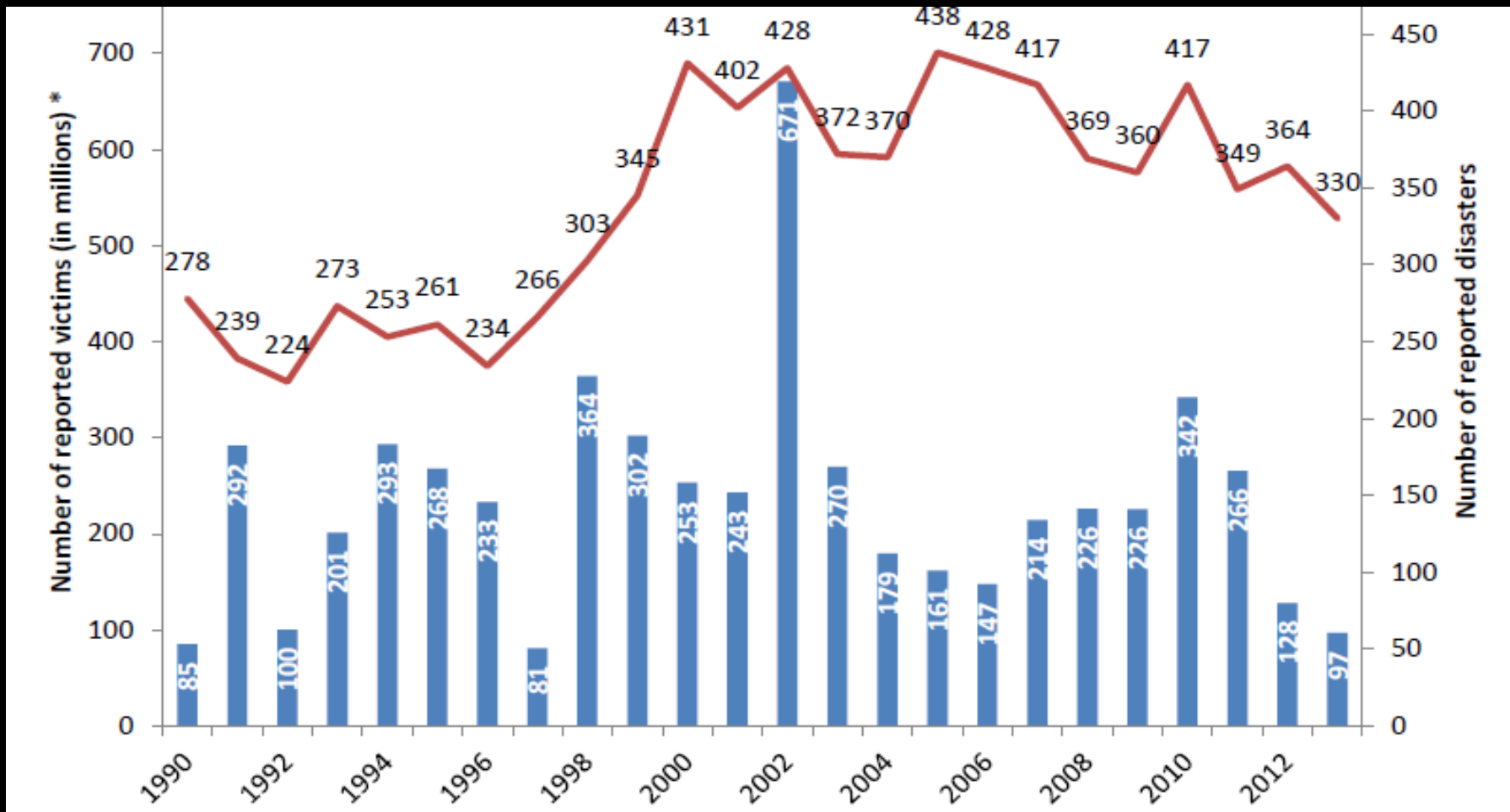
An aerial photograph of a road intersection. A paved road curves from the top left towards the bottom center. A grassy median separates the road from a parking lot in the background. The parking lot contains several cars of various colors. In the foreground, there are road signs, including a blue circular sign with a white arrow pointing left and a white triangular sign with a black border. The text "Make it easy to do the right thing" is overlaid in white on the lower half of the image.

Make it easy to do the right thing



44% of the UK population
donated £10.6bn
to charities

15% by online, 11% by text



Victims & Disasters

“Fake charities (scammers) will try to take advantage of your generosity and compassion for others in need.”

people help by giving money

Philanthropic Phishing

©2015



and predictably...

Katrina heralds wave of phishing fraud

Share this article:



Spammers and phishers hoping to profit from hurricane Katrina have been waging a week-long email campaign.

With depressing predictability, fake Red Cross and other charity donation sites have been set up to con users out of money and emails containing malware are being spammed under the guise of Katrina news.

"This is not the first time we have seen immoral opportunists take advantage of a natural disaster to fill their pockets with money meant for victims," said Carole Theriault, security consultant at antivirus company Sophos. Back in January **SC reported** internet criminals were cashing in on the Asian tsunami disaster.

But the swathe of Katrina scams took a little longer than expected to arrive in user inboxes. According to SurfControl, such scams typically occur within two to three days of the event, but a lack of public awareness and electrical blackouts may have slowed spammers and phishers hoping to benefit from hurricane Katrina.

In the latest scam, an email pretending to be from the Red Cross directs users to a spoofed website that looks very similar to the real American Red Cross Hurricane relief fund website. But any donations will only end up in the pockets of criminals.

What to do with your stolen cards?



A recent survey of Charity Security Forum members indicated that whilst a breach of the donor database was top of their threat list, close behind was the loss of beneficiaries' personal information.

"Almost every charity is custodian of extremely sensitive personal information ranging from sex abuse and child abuse to health issues like cancer, mental illness and diabetes.

The problem is, in Cyberspace, most, if not all charities have this immensely personal and sensitive information exposed and often inadequately protected, making them an easy target for the cyber attacker."

Amar Singh, CEO of GiveADay

cyber attack maps



Security risk checklist

- How easy is it to get access to the system?
- Is physical access limited, particularly to critical components?
- Are there any physical hazards which might disrupt systems?
- What are the opportunities for physical tampering?
- What is the access control policy?
- What security is applied to network connections to systems?
- What are the interactions between systems?
- Do the systems produce audit trails?
- How many people can move files and data to/from systems ?
- What controls are in place to ensure data integrity and reliability?
- To what extent can the system be used for fraud?
- To what extent will professional hackers want to gain access?
- What's the level of staff turnover?

Cyber Essentials

- 1. Boundary firewalls and internet gateways**
designed to prevent unauthorised access to or from private networks, but good setup is important for them to be fully effective
- 2. Secure configuration**
ensuring that systems are configured in the most secure way for the needs of the organisation
- 3. Access control**
ensuring only those who should have access to systems do have access, and at the appropriate level.
- 4. Malware protection**
ensuring that virus and malware protection is installed and is up-to-date
- 5. Patch management**
ensuring the latest supported version of applications is used and all the necessary updates have been applied

Self-Assessment Questionnaire

Cyber Essentials sets out five security controls which will help all organisations protect themselves against the most common cyber threats. Take this quick test to give you an idea of how you measure up. You can then decide whether to apply for one of the Cyber Essentials badges.

Question **1** of 13

What size is your business?
Small (up to 50 employees)
Medium (50 - 249 employees)
Large (Over 250 employees)

SMALL

MEDIUM

LARGE



Charities Security Forum

“The premier group for Information Security Professionals working in the charity sector. The group has representatives from many major and household name charities and meets quarterly in London.

Its members participate in discussions and presentations on information security issues of particular relevance and importance to the not-for-profit sector.

Its annual conference has become a must-attend event”



Brian Shorten

Martyn Croft

www.charitiesecurityforum.org.uk

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Discussion and feedback



Review and close

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from the Adapta website soon

www.adaptaconsulting.co.uk