

CyberSecurity

Introduction



Steven McIntosh Regional Chief Information Security Officer (West of Scotland) HEFESTIS Ltd (formally UCSS Ltd)

CISOShare and DPOShare Services

Joined end of July 2018 University of Glasgow for 14yrs, Information Security Officer Glasgow Caledonian University 4yrs, Sys Admin and Security





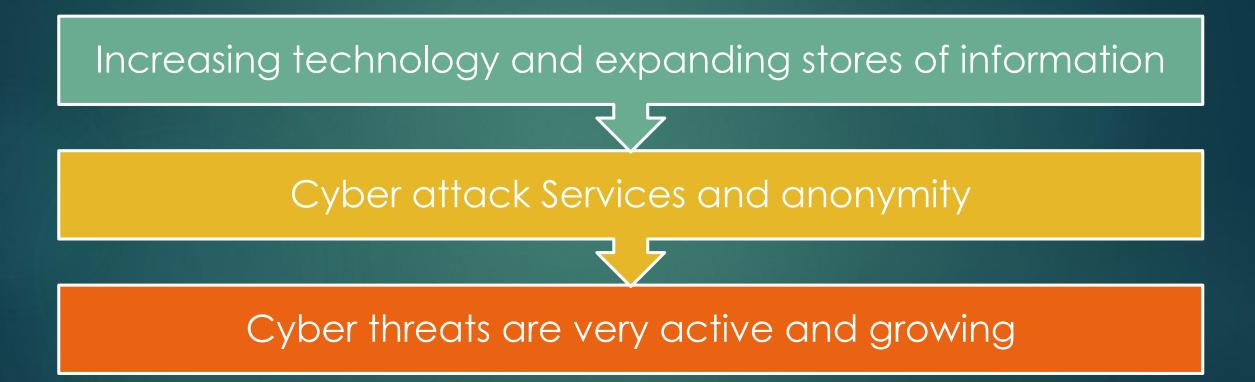
An organisational risk issue NOT an IT issue

Concerned with Confidentiality, Integrity and Availability of information.

Composed of behavioural, organisational and technical controls



Cyber Threat Landscape

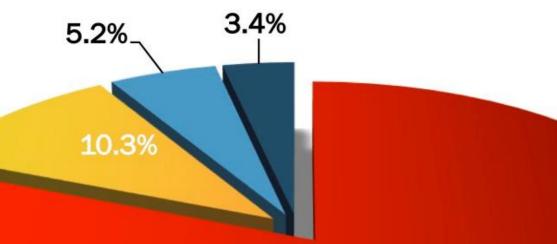


Cyber Threat Actors



Include:
Government Sponsored
Organized Crime
Hacktivists
Internal User Error



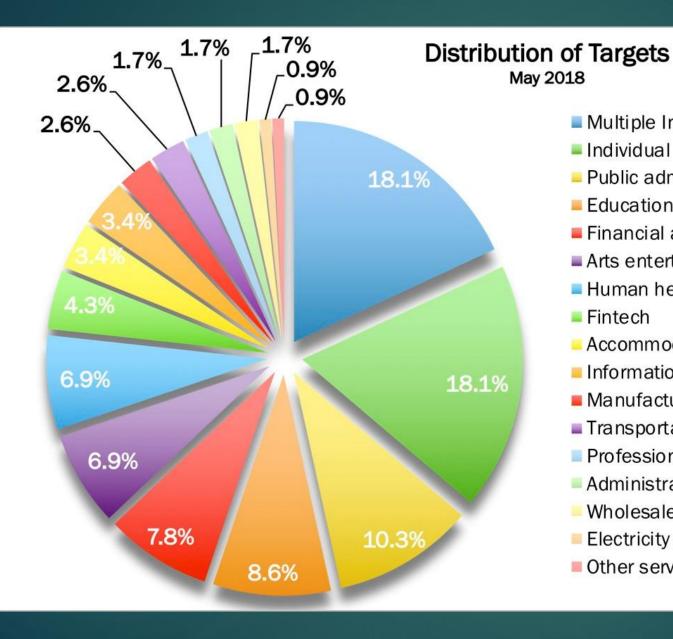


81.0%



Motivations

Cybercrime:81%Cyber espionage:10.3%Cyber warfare:5.2%Hacktivism:3.4%



HEFE

- Multiple Industries
- Individual
- Public administration/defence/compulsory social security
- Education
- Financial and insurance activities
- Arts entertainment and recreation
- Human health and social work activities
- Fintech
- Accommodation and food service activities
- Information and communication
- Manufacturing
- Transportation and storage
- Professional scientific and technical activities
- Administrative and support service activities
- Wholesale and retail trade
- Electricity gas steam and air conditioning supply
- Other service activities

hackmageddon.com

ico.

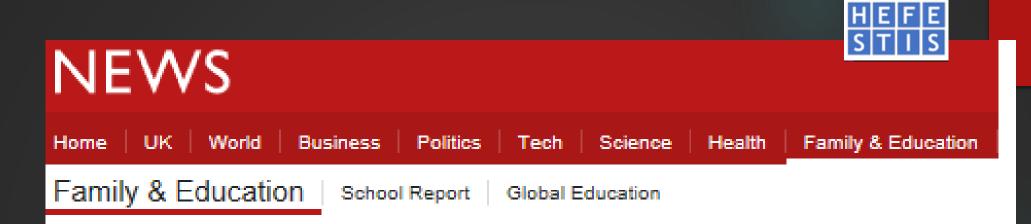


The University of Greenwich fined £120,000 by Information Commissioner for "serious" security breach

Date 21 May 2018
Type News

The University of Greenwich has been fined £120,000 by the Information Commissioner following a "serious" security breach involving the personal data of nearly 20,000 people – among them students and staff.

It is the first university to have been fined by the Commissioner under the existing data protection legislation (Data Protection Act 1998).



Top university under 'ransomware' cyberattack

By Sean Coughlan Education correspondent

() 15 June 2017

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University College London, one of the world's leading universities, has been hit by a major cyber-attack.

Edinburgh Uni Hit by Major Cyber-Attack



Phil Muncaster UK / EMEA News Reporter , Infosecurity Magazine Email Phil

The website of Edinburgh University was still down at the time of writing after the institution suffered a major cyber-attack during its Freshers' Week.

Follow @philmuncaster

A university spokesman told the *Edinburgh Evening News* that it has "rigid measures in place" to protect IT systems and data.



Cyber Security Risks



Reputational
Financial
Business operations

No organisation can have zero risk

- Realisation that it is not an if, but when an incident occurs
- Increasing maturity levels in Cyber Security reduces that risk
- SLCollege recognise this risk within the College Risk Register

HEFE STIS

Cyber Risk Reduction

Appropriate governance, oversight, policies, procedures and practices

- □ SLC Internal ICT Strategy Group; Cyber Resilience Group
- □ SLC Quarterly IT Security reviews
- SLC Annual accreditation for Cyber Essentials Plus

Ensuring the awareness of staff and students to cyber threats

 SLC mandatory staff training; newsletter articles; poster campaign

Invest in suitable technical solutions

SLC-Updated the firewall plus desktop security software within the last 18 months giving added functionality and significantly reducing risk

Reducing the sector risk



Scottish Government Public Sector Action Plan

SLC Achieved all actions as per the deadlines set in the PSAP

Cyber Essentials / Cyber Essentials Plus
 SLC Achieved CE Plus in April 2018 – re-accreditation annually

Awareness, training and Education programmes

SLC has a programme of awareness raising and training which will be ongoing and refreshed on a regular basis

Reducing the sector risk



□ Community sharing e.g. CiSP, HEFESTIS, Jisc, UCISA

- SLC are active participants in all of the above services and subscribe to various other information forums
- SLC review and action all early warnings issued from Scottish Govt, NCSC, etc.

Achieving a greater cyber security maturity via Frameworks and Standards e.g. NIS D, NIST CSF, ISO27001

SLC Business Impact Assessment completed in Jan 2018 matched our maturity level – higher than average for the sector against the NIST Framework and we will continue to monitor and improve our maturity level against this standard

Board Responsibilities



□ Lead from the top, and the front

Understand and address the risk

Approve structures and empower decision makers

Benefits



Strategic Benefits

College decision making is improved through the high visibility of risk exposure.

Financial Benefits

Providing financial benefit to the organisation through the reduction of losses and improved "value for money" potential.

Operational Benefits

Being prepared for most eventualities, being assured of adequate contingency plans.