

Why we need diversity in cyber security - for everyone's sake

Roz Woodward

Co-founder and CEO





Cyber Crime — FBI
fbi.gov



Social Media Cyber Crime ...
cpomagazine.com



Professionalisation of Cyber Criminals ...
knowledge.insead.edu



Cyber crime: What RBI needs to do to ...
m.economictimes.com



The evolution of cybercrime | Packt Hub
hub.packtpub.com



cyber criminal with laptop - Ebuyer Blog
ebuyer.com



targeting each other with cyber crime ...
irishtimes.com



Operation dismantles cyber-criminal ...
homelandprepnews.com



6 Reasons Why Cyber Crime Is Increasing ...
bmc.com



Cybersecurity: Cyber Laws Part I: Ho...
m.economictimes.com



5 Ways to Prevent Cyber Crimes From ...



Cyber Crimes Investigation: Certificate ...



boytjie from Krugersdorp in flip-flops ...



The Psychology Of The Cyber Criminal ...



Inside the Mind of Cybercriminals



'Nigerian prince' email scams still rake in over \$700,000 a year—here's how to protect yourself



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Teenage DDoS users targeted by international law enforcement operation



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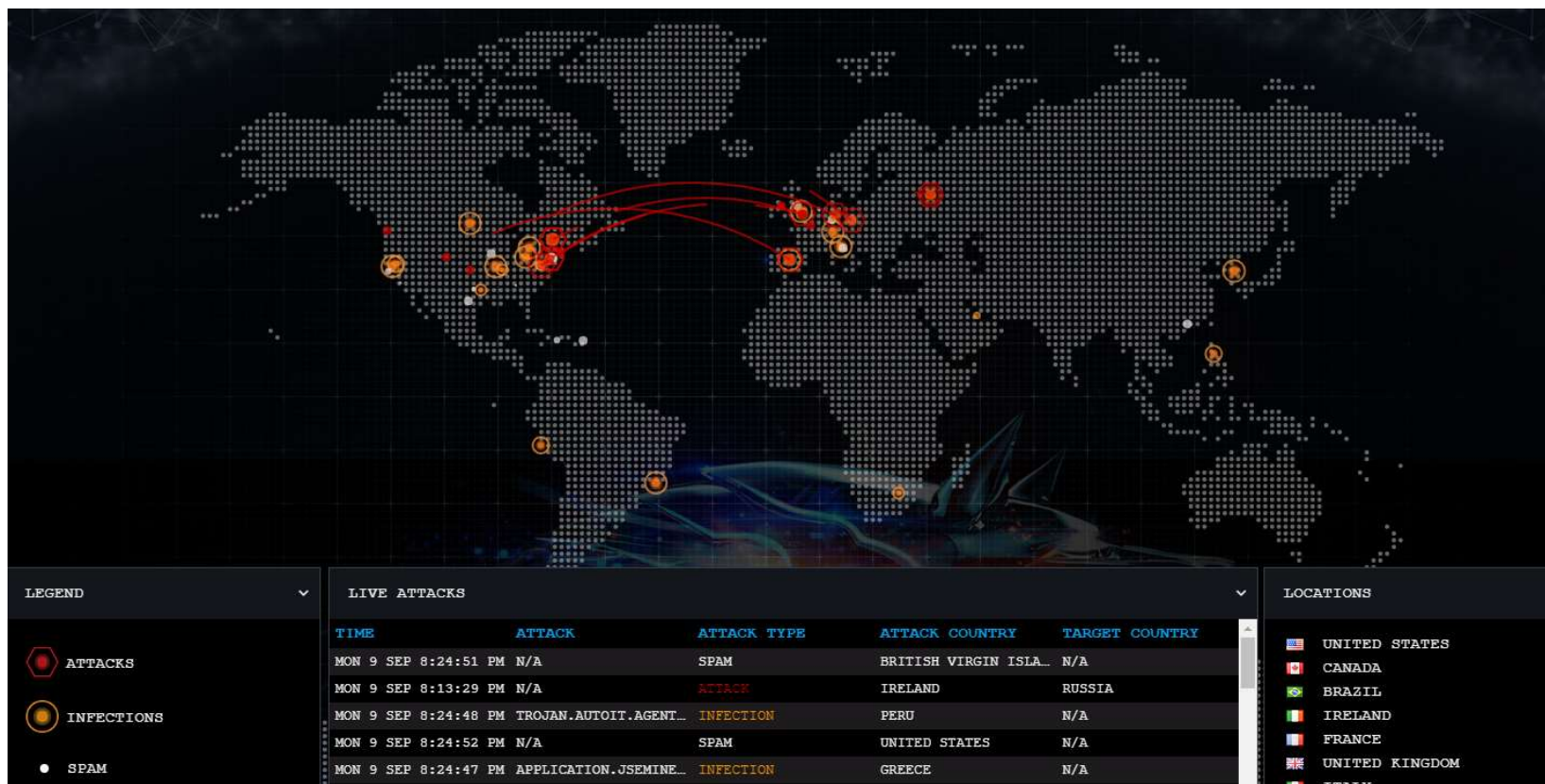
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Social engineering a factor in virtually all cyber attacks, report claims







Overview

- Understanding of the recruitment challenge in cyber security
- Insight into how we are missing a huge opportunity through lack of diversity
- Ideas on how to encourage people with transferable skills into the sector







INFOSECURITY MAGAZINE HOME - NEWS - NINE IN 10 CNI PROVIDERS DAMAGED BY CYBER-ATTACKS







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May 14, 2019

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Cybersecurity skills shortage still the root cause of rising security incidents

9th annual (ISC)2 Security Congress in Orlando, FL – Trainings, Keynotes and More!

The **cybersecurity skills shortage** is worsening for the third year in a row and has impacted nearly three quarters (74 percent) of organizations, as revealed in the third annual global study of cybersecurity professionals by the Information Systems Security Association (ISSA) and independent industry analyst firm Enterprise Strategy Group (ESG).



An (ISC)[®] Cybersecurity Workforce Report

Women in Cybersecurity

YOUNG, EDUCATED AND READY TO TAKE CHARGE



03 Nov 2016 | News

UK to invest £1.9B to improve cyber defences

As external threats to computer systems mount – with one UK hospital this week postponing operations following a cyberattack – the government takes a lead in highlighting the need for cybersecurity research push
By Eanna Kelly



The UK government is to almost double its investment in cybersecurity, spending £1.9 billion (£2.1 billion) over the next five years to reinforce defences, fund research, and establish a National Cyber Security Strategy, to fight back against cyber attacks.

This will include funding for a Cyber Security Research Institute – a virtual coalition of UK universities, which will look to improve the security of smartphones, tablets and laptops. One area of research will be replacing passwords with new authentication technologies.

In addition, a Cyber Innovation Centre will launch a scheme to retrain high-aptitude professionals as cybersecurity experts, and there will be funding for a cyber innovation fund, to support the commercialisation of start-ups based on academic research in the field.

The government will also strengthen law enforcement, recruiting an extra 50 cyber-crime investigators to the National Cyber Crime Unit.

EU-wide reaction

Legislators across Europe are similarly stepping in to stem the rising tide of cyberattacks.

The European Commission is working on legislation to require better security in internet-connected devices, including security cameras, routers and digital video recorders.



About NCSC

Information for...

Advice & guidance

Education & skills

Education & skills

Working with industry, government and academia to support the next generation of researchers, students and cyber security professionals

IN THIS SECTION

11-19 year olds (CyberFirst)

Higher education

Professional skills training

Working with the NCSC

CYBOK

Research & academia



A comprehensive **Body of Knowledge** to inform
and underpin **educational and professional**
training for the cyber security sector.



HM Government

INITIAL NATIONAL CYBER SECURITY SKILLS STRATEGY

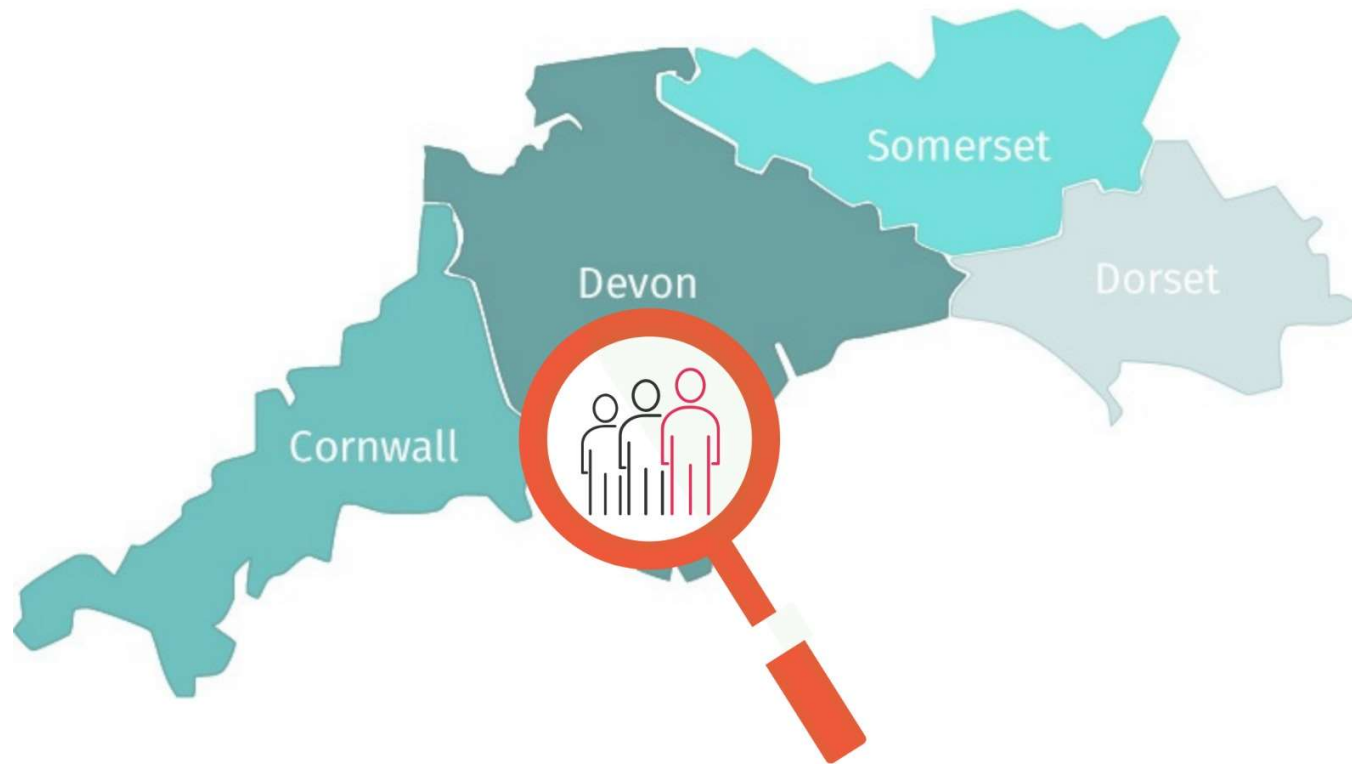
INCREASING THE UK'S CYBER
SECURITY CAPABILITY

A CALL FOR VIEWS



1. human, organisational and regulatory aspects
 - risk, management and governance
 - law and regulation
 - human factors
 - privacy and online rights.
2. attacks and defences
 - malware and attack technologies
 - adversarial behaviours
 - security operations and incident management
 - forensics.
3. systems security
 - cryptography
 - operating systems and virtualisation security
 - distributed systems security
 - authentication, authorisation and accountability.
4. software and platform security
 - software security
 - web and mobile security
 - secure software design and development.
5. infrastructure security
 - network security
 - hardware security
 - cyber-physical systems security
 - physical layer security.





What kind of people should we be encouraging?

- Those with a desire to help others and share knowledge
- Those who are good communicators
- Those who understand business and business risk
- Those who understand people
- Those who have the desire to keep learning



Summary

- Cyber criminals are diverse in nature
- We need to match their diversity
- More diversity will help address the skills shortage
- Retraining for older people should be encouraged
- We must bring in people with softer skills



An exciting place to be

- Let's be agile
- Let's encourage passion
- Let's learn, collaborate and share knowledge
- Let's do all we can to increase diversity





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