Cyber-Scotland Conference

23rd February 2021

All the recordings can be viewed at https://www.eicc.co.uk/pscr21/event-main-page/. Session 1 will be of most interest to community safety practitioners.

Some highlights from the morning's presentations:

- Launches:
 - Police Scotland cyber strategy
 - Launch of new Digital strategy for Scotland will be happening soon (consultation closed on 23rd December 2020). Colin Cook, Scottish Government input.
 - New cyber partnership: https://digit.fyi/cyberscotland-partnership-to-support-cyber-resilience/

<u>Input on the categories of harms caused by cyber attacks</u>

Ciaran Martin, SBRC Board member

- Cyber is a domain but also an environment
- Cyber-infrastructure is as important as electricity cables, water supply and other utilities.
- Should not sit within IT alone in an organisation



- 'Getting robbed' can be anything from little amounts of money to state-sponsored bank robberies with vast amounts of money causing systemic issues.
- What damage does data theft do? What harm does it cause? E.g. selling data to perpetuate ID theft.
- Defences are too weak, incentives to

pay, other countries let criminals like this operate.

- And don't forget about the aggregation of these small harms.

Suggestion of a discussion that Boards should be having re cyber-security:

E QUESTIONS FOR AN INFORMED BOARD DISCUSSION

- : How do we defend our organisation against phishing attacks?
- . How does our organisation control the use of privileged IT accounts?
- . How do we ensure that our software and devices are up to date?
- . How do we make sure our partners and suppliers protect the information we share hithem?
- . What authentication methods are used to control access to systems and data?

s://www.ncsc.gov.uk/guidance/board-toolkit-five-questions-your-boards-agenda

Key recommendation from the speaker: Have a strategy that assumes some of these phishing attacks work, not just educating staff not to click on suspect emails.

Scotland's investment in cyber is actually very small – there is a lot of work to shine a light and attract more investment and attention to this area.

Malcolm Graham, Police Scotland – new cyber strategy





- The need for a new approach to cyber is driven both internally and externally:
- Demands faced in policing are becoming increasingly complex and the resources available to meet these demands continue to be stretched
- We need to adapt and change to provide a relevant effective modern policing service, fit for the digital age, which builds and maintains public confidence
- The rapid pace of political, economic, societal and technological change means that we must continually adapt to meet the needs of the communities we serve
- It is imperative that Police Scotland transitions to be able to embrace current and future challenges that the digital age presents

Cyber Strategy - Threat & Risk



- Our Strategic Threat Assessment (2020-2023) is a risk based assessment of operational policing issues combined with an organisational assessment of our approach, capability and capacity to support the delivery of policing services
- Technology presents significant threat AND opportunity Police Scotland recognise the threats posed by criminality that takes place online and the organisational need to prioritise investment in our capability and capacity to tackle the broad range of criminality presenting in the digital age.
- Connected to this is the requirement to ensure Police Scotland and its ICT and data assets are fully protected from all cyber security threats
- Current Very High/High Operational Priorities are shown in the table, 'Cyber' cuts across majority of these priorities, whether it be Cyber Dependent or Cyber Enabled, the key online threats are:
 - Sexual Offences/CSA
 - Financial & Economic Crime
 - Threatening Behaviour & Communication Offences
 - Offences under Computer Misuse Act 1990 (including data breaches, hacking or denial of service)



A sense from a number of speakers that they were speaking to the converted at this conference – not sure the cyber strategy (or digital issues more broadly) has actually landed where it needs to yet in other places like government, public sector etc.

As part of cyber-Scotland week the SCCJR published a paper on the reality of Cyber-awareness:

This briefing paper represents a summary of doctoral research that explores how different groups make sense of and respond to cybercrime in their everyday lives.

The research found that people from different groups, places, and times think about cybercrime and cybersecurity in different ways.

This has implications for government and police awareness raising campaigns.

Population-level awareness

This may lead people to avoid engaging with technologies and services that could Current public facing responses to cybercrime prevention are predominantly improve their quality of life. Equally, stigma will negatively affect people's willingness to focused on raising awareness and behaviour change. These campaigns rely on people interpreting messages and risks in the same report cybercrime or seek support when they · Some participants expressed a reluctance This research found that people think about to report cybercrime to the police except in very specific circumstances. They struggled to fit cybercrime into their understanding of to them in different ways. This may lead to them feeling that government and police the police role and questioned whether they driven cybersecurity messaging is irrelevant or unhelpful to them. were the appropriate agency to report to. Awareness campaigns risk creating a hostile environment for victims by focusing on individuals' failures to take steps to secure emselves, and neglecting the wrongdoing of offenders, or the harm of the offence.

campaigns designed to communicate 'simple' messages may get lost in translation or disregarded because they do not resonate with the social and cultural contexts of their target audiences.

After considering the challenges government and police face, the report imagines possible future directions for cybersecurity awareness raising that may enable them to be more sensitive to local social cultural contexts and foster the creation of communities of supportive cybersecurity.

Read the full paper at https://www.sccjr.ac.uk/wp-content/uploads/2021/02/Dr-shane-Horgan.pdf