

Stop. Think. Click.

Kieren Niĉolas Lovell

**IM Implementation Manager** 

University Information

Services





# Objectives





#### Kieren Niĉolas Lovell

Joined Royal Navy in 2002



UNIVERSITY OF

**Information Services** 

Joined MARBATSTAFF on **HMS INVINCIBLE** as a Communications Security Specialist.

Communications Specialist in Mine Warfare Warships



Civilian Instructor for the Royal Norwegian Navy in Warfare, Communications & IM



Headhunted to Norway as the **SME** 



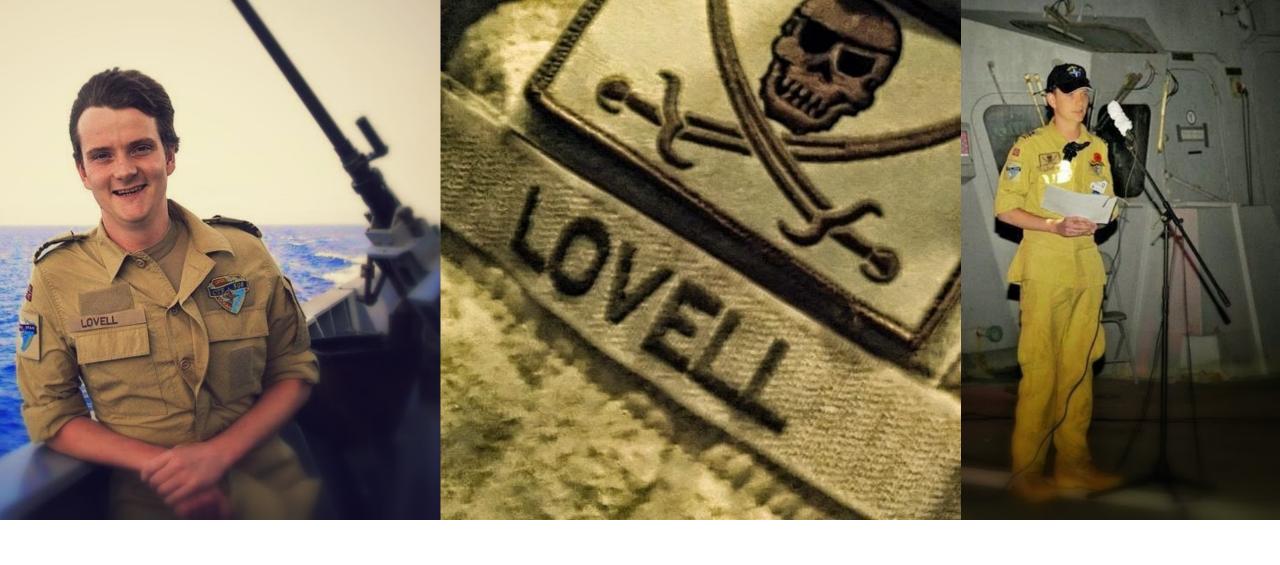
Joined Nuclear Weapon, HMS 2003

Vengeance in CAMBRIDGEn prmation Management



Awarded Herbert Lott Award for Services to Information

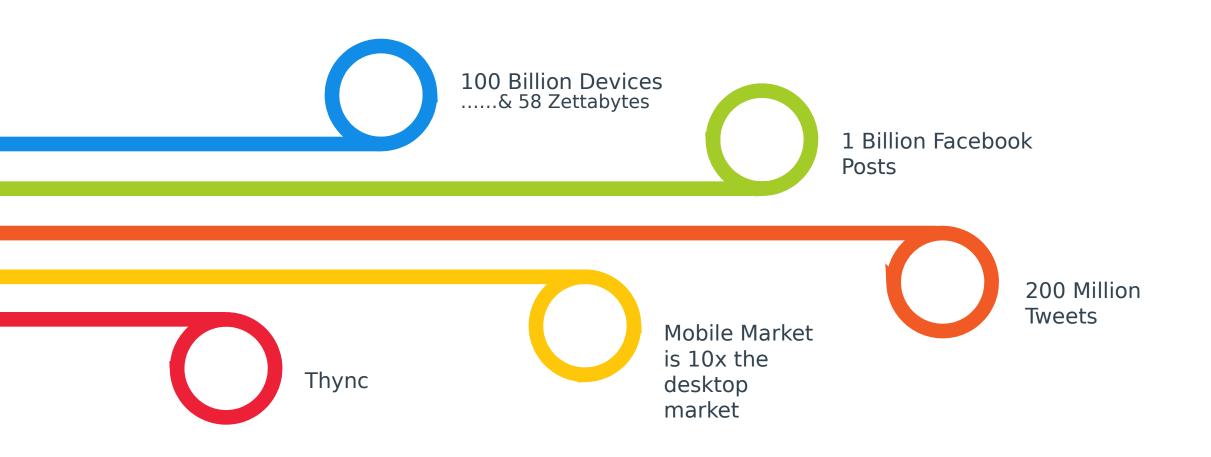
Security www.informationmanagement.uis.cam.ac.ul



Commissioned in the Royal Norwegian Navy, as a LT CDR, providing Shipping Protection against the Pirate Threat in Somalia, working with over 50 Nations, and responsible for five warships.

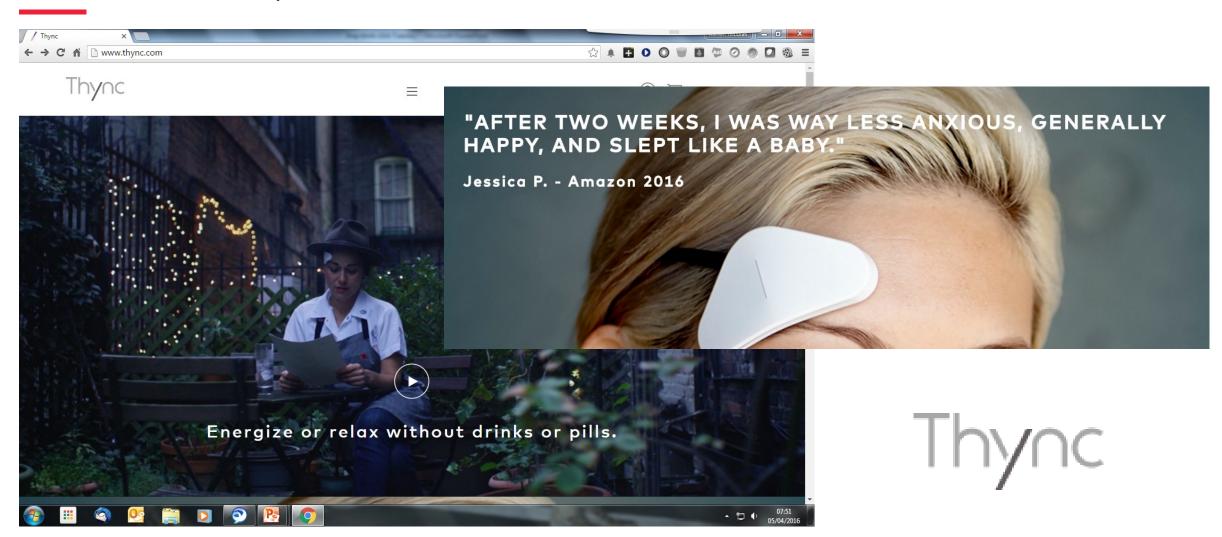


## Aim: Metrics Snapshot: 2020





#### Aim: Metrics Snapshot





# Threats to Cambridge

Accident Leakage

Deliberate Leakage

Simulate Leakage

Spoofing





## Social Engineering

The easiest, and most successful way, to gaining access to information, money, or reputational damage



#### **Not New**

One of the first recorded scams was in the 15<sup>th</sup> Century, all that has changed is that we now have computers.



#### Easy & Effective

Low cost of resources, time and effort are all that is required.

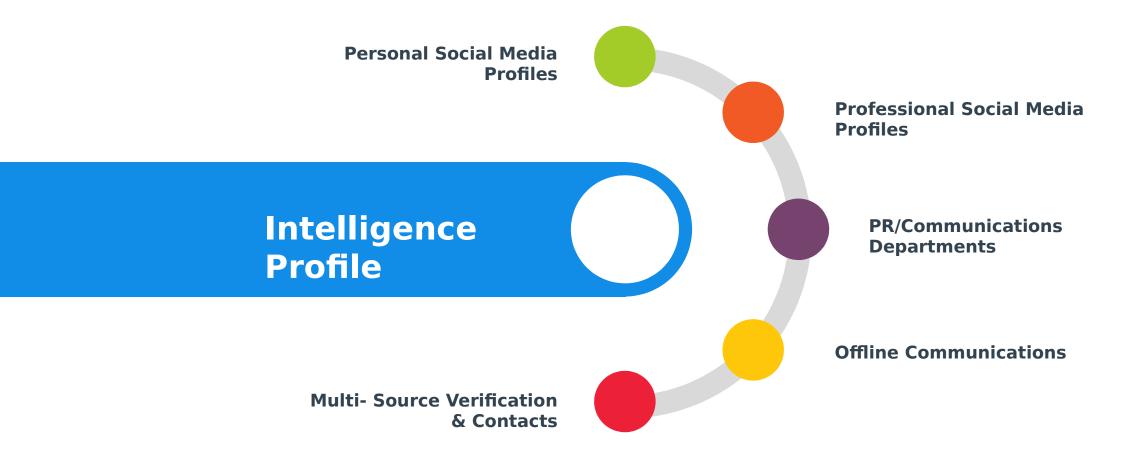


#### Hard to spot

Can sometimes be months, even years, when spotted

www.informationmanagement.uis.cam.ac.ul

#### **Attack Vectors**





## Somalia Refugee Crisis

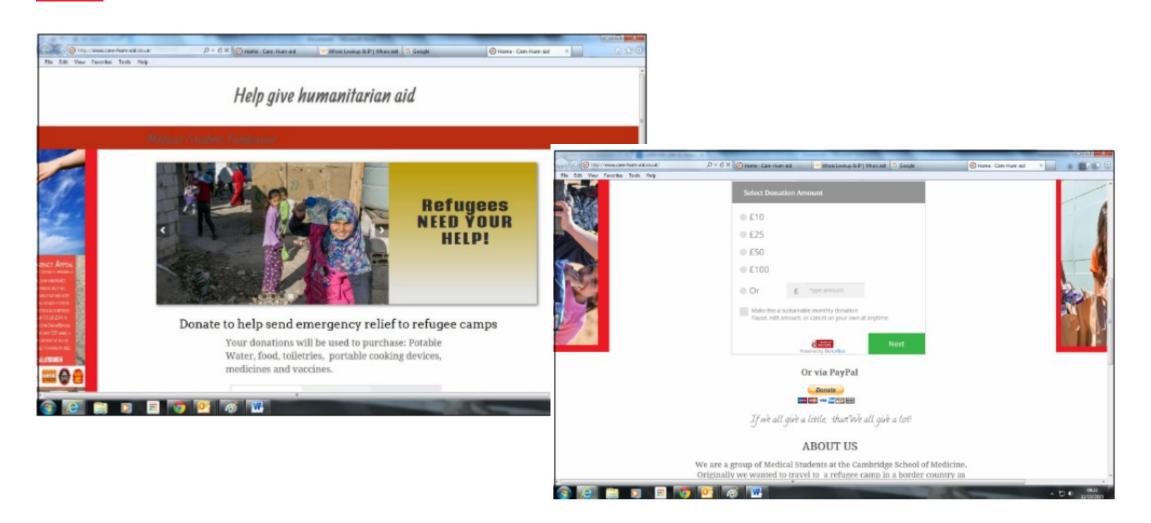
#### This email was sent to 12,000 people

```
----- Original Message -----
 >From: Alex
>Sent: 9 October 7015 20:36:05 BST
  ŚŚubject: Cambridge Helps! Donate to support Syrian Refugees
 Dear Cambridge Community,
We are a group of Medical Students at the Cambridge School of Medicine.
We have initiated this fundraiser to help provide support and
humanitarian aid for Syrian Refugees. We are facing the biggest migrant
crisis in Europe since World War II. Whilst our leaders have a sobering
debate about how to come up with a solution to the current crisis,
leth's not forget that these are real people who are in need of real
humanitarian aid.
Mearly 12 million Syrians have been forced from their homes by the fighting. Refugees need food, clothing, health assistance, shelter, and basic household and hygiene items. They need reliable supplies of clean water, as well as sanitation facilities. Theyac-ll need warm clothing, heaters, and heating fuel to get through the coming winter months. The World Food Program recently had to cut food assistance to one-third of the Syrian refugees in the region, including 229,000 living outside of camps in Jordan.
  Help us raise money to provide this assistance!
 Visit our fundraising website to donate now, and give your support!
  Nith a small donation of even 18£ or 58£, You can make a difference.
 >Help Give Humanitarian aid to Syrian Refugees (
>http://www.cam-hum-aid.co.uk )
 )( http://cam-hum-aid.co.uk )
```

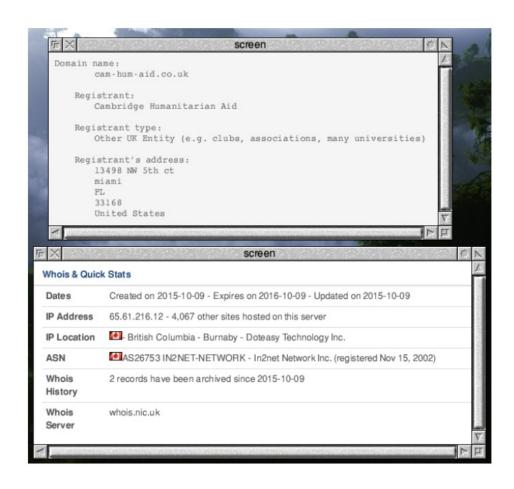




# Somalia Refugee Crisis

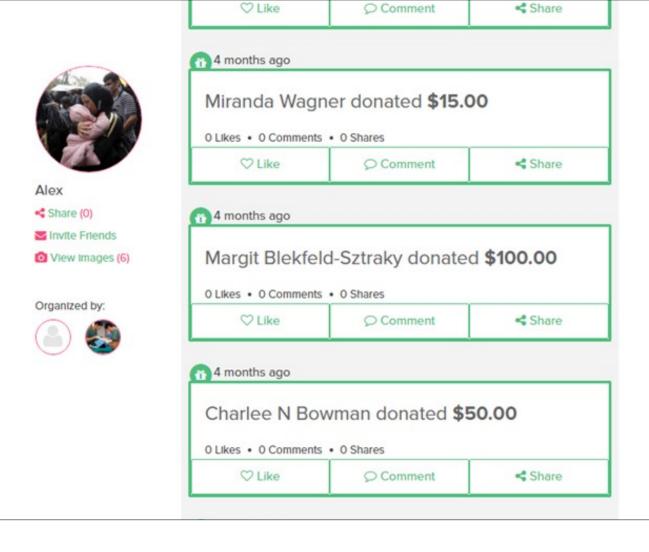


# Somalia Refugee Crisis



# My name is Alex and I ask PLEASE READ this short description!

I am a Lebanese student and I am in my last year of Medical school. I won a scholarship to study Medicine abroad in my country for my work promoting health and prevention programs in rural areas of Guatemala. I am on a student visa and I am not eligible for any aid. My country, however, decided to stop giving scholarships for people to study abroad after my first year of Medical School, and I was devastated. Most of my friends on this scholarship were forced to drop out of school. I have been fighting to finish school, and pay my tuition every year completely out of my own pocket. I am determined to finish Medical School and return to Central America to offer quality medical care to low income families in rural areas. I have done everything you can imagine, and many weeks I live off a budget of 10 dollars. What I was doing before was "distance education" in my country. While studying medicine here, I was going to an online school in Lebanon to be able to collect government aid. I would also spend my summers working in labs back home, do paid research studies as a guinee pig, etc etc... but as of last year, I can no longer get aid through distance education, which is were the bulk of my money came from. Over the years I have taken out loans, hounded family and friends for help, written letters to the Dean and government. I have no where else to turn now. I have only one year left!! And I desperately need help! It is very challenging, and difficult to study something like medicine, which the constant stress of how you will pay tuition, and finally once you can pay tuition, worrying about if you will have enough



Over £300 was reported.... Online, the crowdfunding was into the thousands

# Research Phishing Attempt

Sent: 03 August 2015 03:03 Subject: Re: Hi Dear Dr. I recently read your last article and it was very useful in my field of research. I wonder, if possible, to send me these articles to use in my current research: 1- http://raven.cam.iac-uk.in/idp/Authn/userpassword.php?http://www.sciencedirect.com/science/article/pii/S1383762115000144 2- http://www.sciencedirect.com/science/article/pii/S2212683X14000723 Thanks for you Cooperation in Advance.



# Successful Campaigns





<b>Phishing</b> Targeted, well researched.	<b>Anti-Virus</b> Largely ineffective against a targeted account	Personal/Private  The divide is no longer there	Online/Offline Targeted campaigns use both worlds	<b>Spoofing</b> The most common vector successful attacks	Attitude  It needs to change

"There are only two types of companies: those that have been hacked and those that will be hacked."

Robert S. Mueller, III Director, FBI



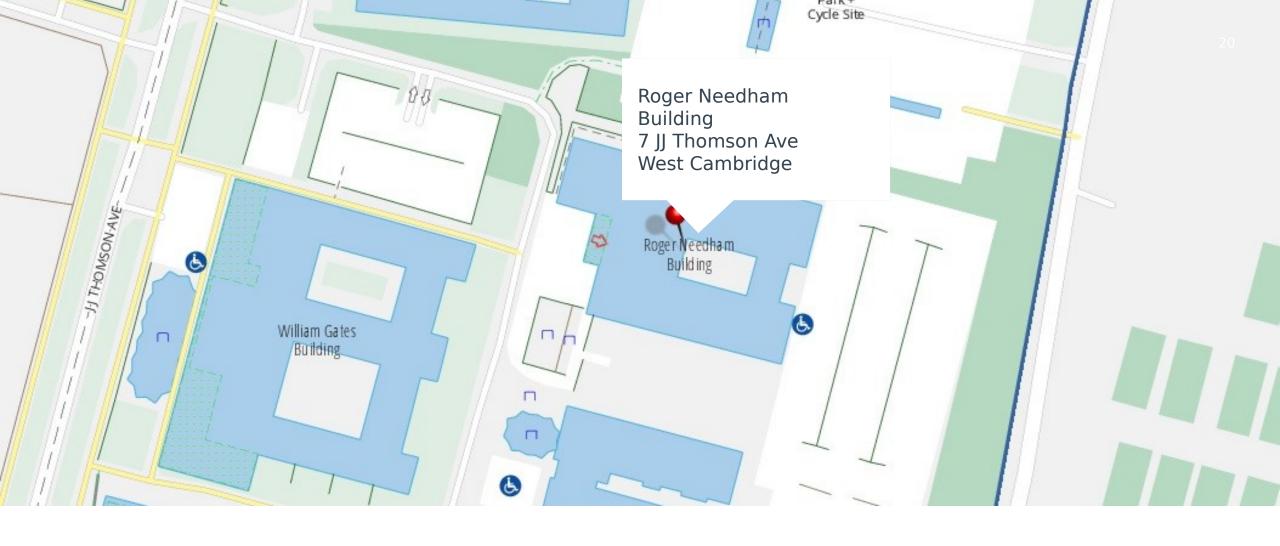






# Even the best get it wrong......







<u>informationmanagement@uis.cam.ac.uk</u> (Advice) <u>cert@cam.ac.uk</u> (Computer Security Emergency Response)





www.informationmanagement.uis.cam.ac.ul