

PROFILING CYBERCRIME VICTIMS

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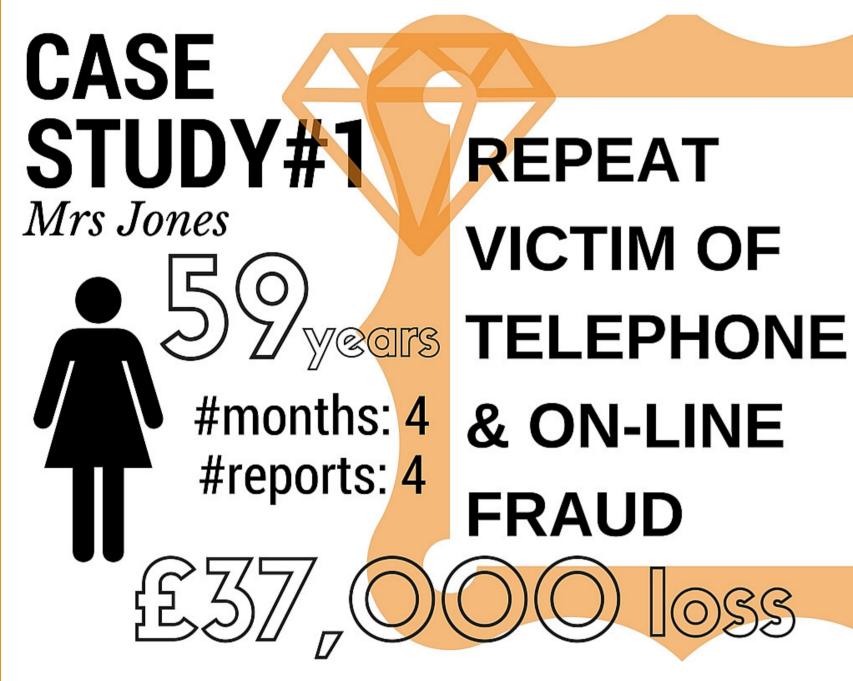
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The Problem

1. Cybercrime is **not a victimless crime**: 1/12 people were victims of fraud and 1/22 victims of a computer crime in the UK last year (ONS 2015).

2. Cybercrime poses a **credible threat** to national infrastructure and public services: e.g. hackers have shut down a Power Plant in Ukraine and held for ransom hospital systems in Germany and the US (Ars Technica 2016).



Objectives

One: Profile victims to help target prevention.

Two: Identify existing gaps in crime reports to collect better intelligence.

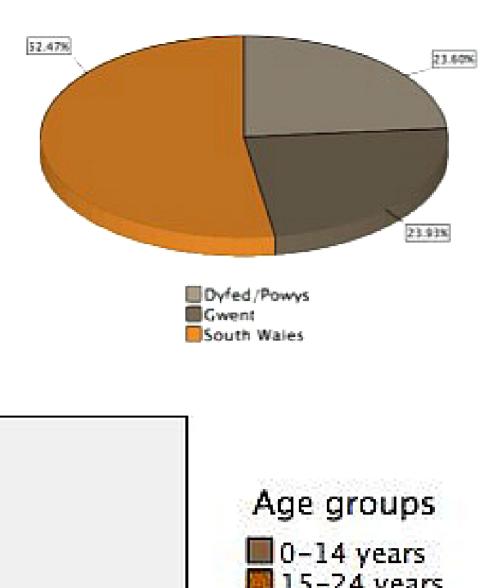
Three: Streamline the analysis of those reports so they can be used to deter cybercriminals.

Methodology

- Data-driven mixed methods approach.
- Access to Action Fraud data pertaining to crime reports for Welsh police forces.
- Descriptive and Inferential statistics.
- Geocoding of victim location.
- Thematic analysis of incident descriptions.
- In-depth case studies of repeat and vulnerable victims.

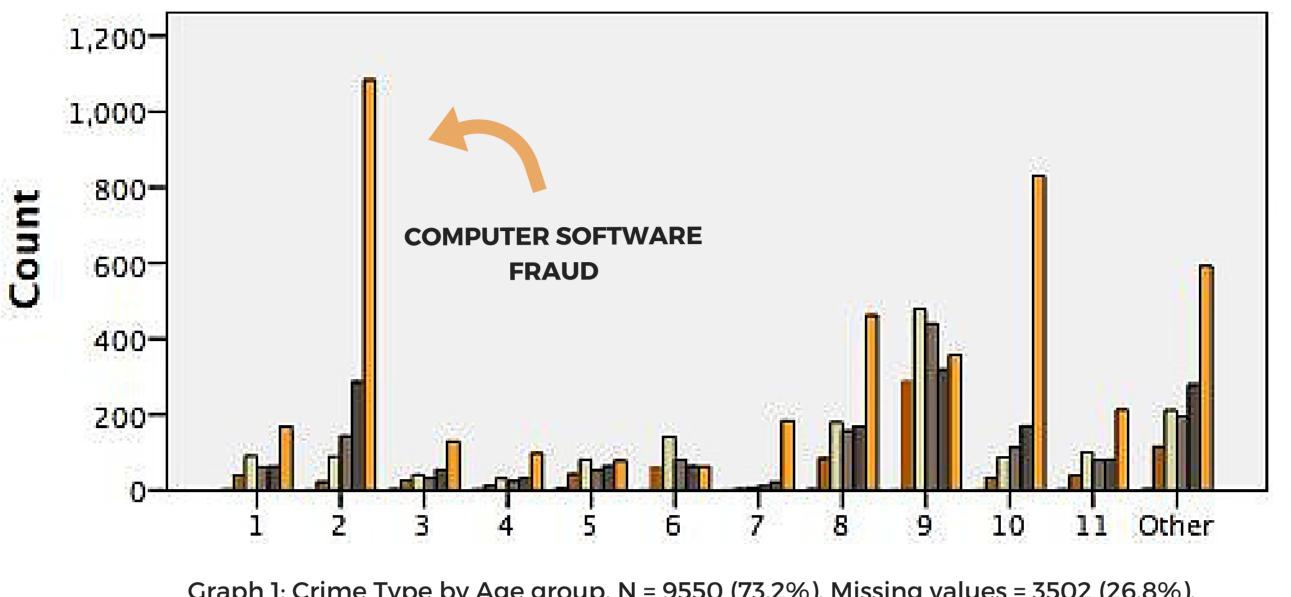
Who are the victims?

13,052 CASES =

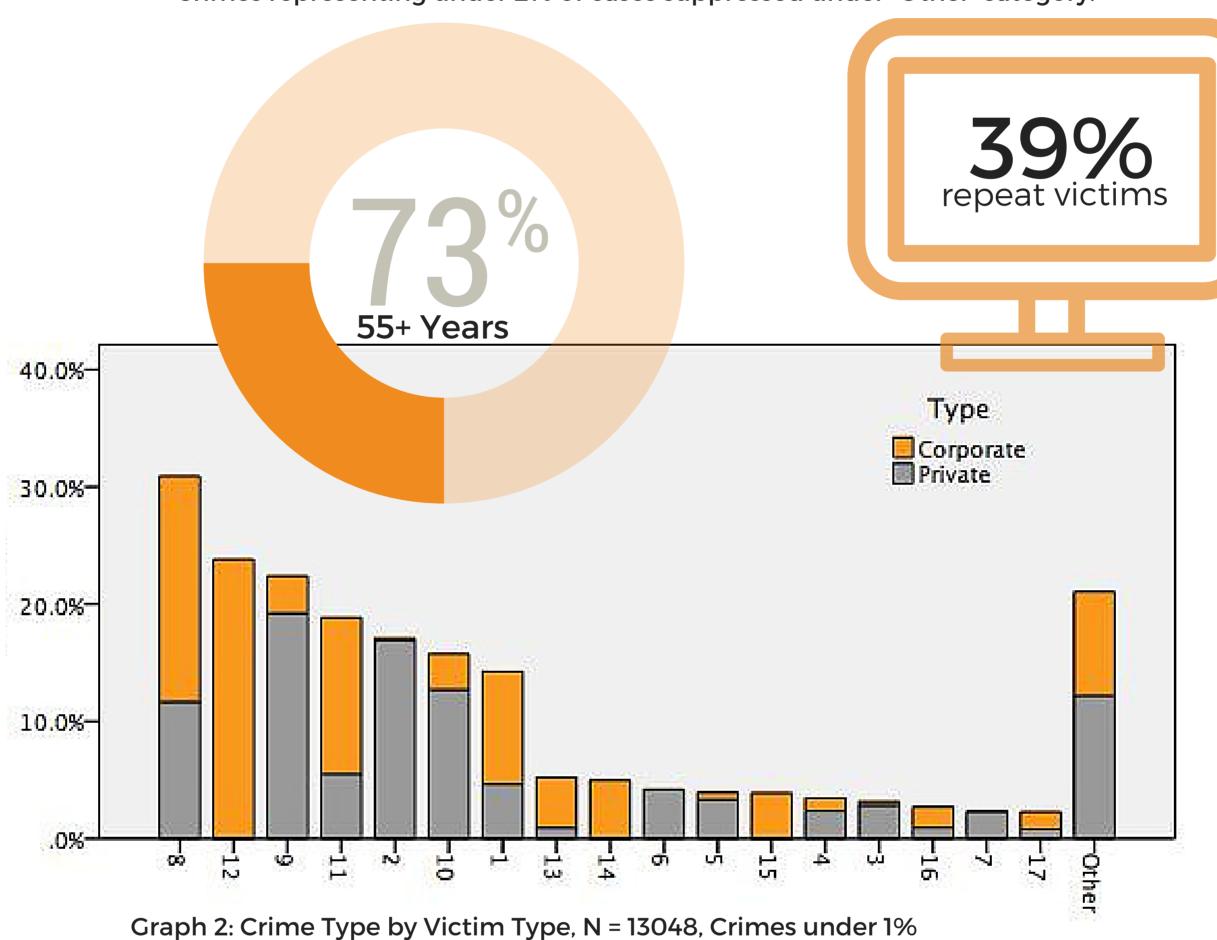


Crime Type





Graph 1: Crime Type by Age group. N = 9550 (73.2%), Missing values = 3502 (26.8%). Crimes representing under 2% of cases suppressed under "Other' category.





Cheque Plastic Card and Online Banking

Computer Software Service Fraud

Computer Virus / Malware / Spyware

4 Door to Door Sales and Bogus Tradesmen
5 Hacking: Social Media and Email
6 Lender Loan Fraud
7 Lottery Scams
8 None of the Above
9 Online Shopping and Auctions
10 Other Advance Fee Frauds
11 Other Consumer Non Investment Fraud
12 Retail Fraud
13 Mandate Fraud
14 Corporate Employee Fraud
15 Insurance Related Fraud
16 Counterfeit Cashier Cheques
17 Application Fraud (Excluding Mortgages)

CASE STUDY#2 Delivery Ltd

#months: 9
#reports: 22

£3, 95

©SS

55+

years

suppressed under "Other'.

REPEAT VICTIM
OF ON-LINE
SHOPPING
FRAUD



REPEAT VICTIM
OF COMPUTER
SOFTWARE
FRAUD

Analysis to date has identified:

- Patterns with regards to victims' gender and age.
- Repeat victims' characteristics.
- Characteristics of private and corporate victims.

Barriers to intelligence identified include:

- Information not recorded such as gender;
- Missing data / incomplete records;
- Lack of detail in incident description;
- Inconsistent recording of crime types.

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