



# Cyber - From Risks to Claims Including Business Interruption

**Wed 22 May 2019**

Presenter

Rajen Rajput

By attending this event you will gain a further understanding of:

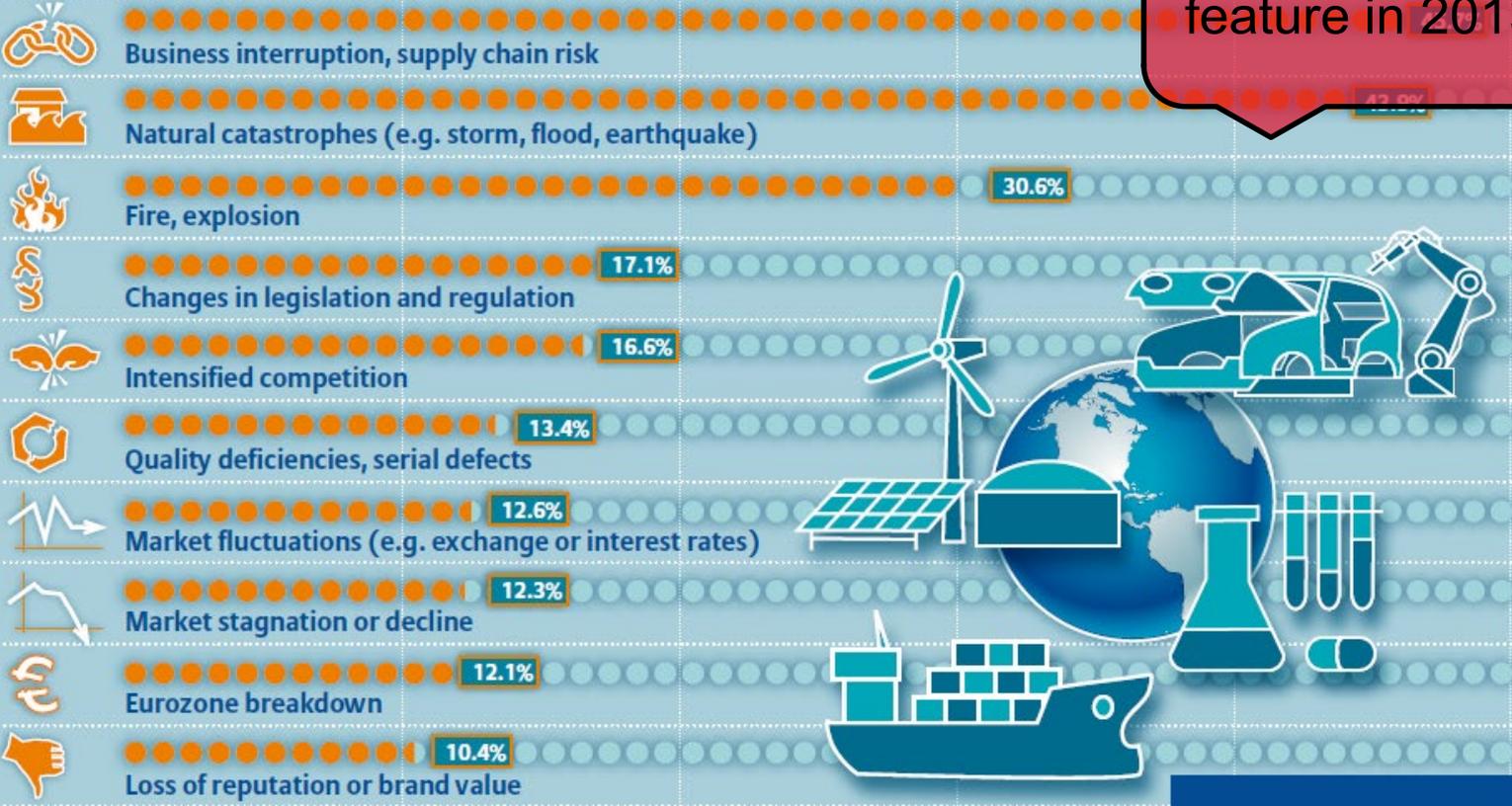
- > the growing prominence of cybercrime as a risk to businesses;
- > the effects on a business from a cyber breach;
- > appreciation of the possible magnitude of economic damage from a cyber attack;
- > interpretation of cyber risk policies;
- > Business Interruption losses flowing from cyber damage

# Cyber Risk in Perspective



## Top 10 global business risks for 2013

Cyber does not feature in 2013



The Allianz "Risk Barometer" survey was conducted among risk consultants, underwriters, senior managers and claims experts in the corporate insurance segment of both Allianz Global Corporate & Specialty and local Allianz entities. Figures represent the number of responses as a percentage of all survey responses (843).



## THE MOST IMPORTANT BUSINESS RISKS IN 2019

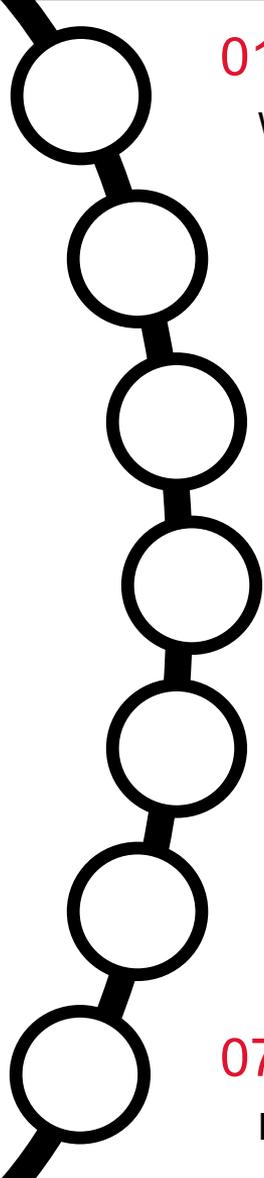
Ranking changes are determined by positions year-on-year, ahead of percentages

| Rank |  | Percent    | 2018 rank | Trend |
|------|--|------------|-----------|-------|
| 1    | <b>Business interruption (incl. supply chain disruption)</b>   | <b>37%</b> | 1 (42%)   | =     |
| 2    | Cyber incidents (e.g. cyber crime, IT failure/outage, data breaches, fines and penalties) <sup>1</sup>                                   | <b>37%</b> | 2 (40%)   | =     |
| 3    | Natural catastrophes (e.g. storm, flood, earthquake)   | <b>28%</b> | 3 (30%)   | =     |
| 4    | Changes in legislation and regulation (e.g. trade wars and tariffs, economic sanctions, protectionism, Brexit, Euro-zone disintegration) | <b>27%</b> | 5 (21%)   | ▲     |
| 5    | Market developments (e.g. volatility, intensified competition/new entrants, M&A, market stagnation, market fluctuations)                 | <b>23%</b> | 4 (22%)   | ▼     |
| 6    | Fire, explosion  | <b>19%</b> | 6 (20%)   | =     |

– New technologies (e.g. impact of increasing

Cyber is now joint first



A decorative vertical line of seven white circles connected by a thick black line, running down the left side of the page.

## 01 - Introduction

Who we are

## 02 – Cyber Language

Getting up to speed

## 03 – Grouping and Simplifying

Categorise cyber incidents

## 04 – Cybercrime on the Rise

What is facilitating this and why is it not slowing?

## 05 – Who is at Risk?

SME's or large businesses?

## 06 – Cause and Effect

How is a business affected

## 07 – Claim on Policy

Example coverages and valuation

# 01 - Introduction



MDD is a firm of forensic accountants who calculate Business Interruption and cyber MD losses, generally working for insurers, insureds or lawyers.

 = Where MDD has worked

# 01 - Introduction

- > Accident Benefits
- > Agriculture
- > Builders' Risk Claims & Soft Costs Claims
- > Business Disputes
- > Business Interruption
- > Business Valuations
- > Catastrophe Services
- > Class Actions
- > Construction Defect Claims
- > Fidelity Claims
- > Franchise Litigation
- > Fraud & Investigations
- > Government Services
- > Intellectual Property
- > Liability Losses
- > Litigation Support
- > Lost Profits
- > Maritime
- > Mining Claims/Refining Claims
- > Surety & Funds Control Services
- > Toxic Torts
- > Transportation
- > Valuable Papers

- > Contingency/ Entertainment
- > Cyber Risk
- > Disability Compensation & Workers' Compensation
- > Divorce & Marital Disputes
- > Environmental Damage Claims
- > Expropriation
- > Extra Expenses/ Increased Costs
- > Oil & Gas
- > Personal Injury & Wrongful Death
- > Physical Damages
- > Power Generation
- > Products Liability & Product Recall
- > Reported Insurance Values
- > Stock & Contents
- > Subrogation

# 02 – Cyber Language



CEO Fraud / Business Email Compromise

**Data Leakage**  
**Bad Actors**  
**Hobbyists**  
**Phishing**  
**Botnets**  
**Vishing**  
**SQL Injection**  
**Credential Stuffing**

**Cryptojacking**  
**Insiders**  
**Spear Phishing**  
**Espionage**  
**Dos / DDoS**  
**RAM Scraping**  
**USB / Removables**  
**Pharming**

**Deep and Dark Web**  
**Ransomware**  
**Spyware / Keylogging**  
**State Sponsored**

# 03 – Grouping and Simplifying

## Obtaining Money

### Victim Aware

Ransom

### Victim Unaware

CEO-Fraud/Business-Email-Compromise

Invoice fraud

Credential Stuffed Accounts

## Obtaining Data

Espionage

Data Leakage

## System Damage

Denial of Service

Reduce Computing Power (Efficiency)

Monitor Keystrokes

System Offline

## How Was It Done?

Spyware/keylogger

SQL Injection

Phishing

Vishing

Spear-Phishing

RAM-scraping

USB/Removable-Device

Botnets

Credential-Stuffing

DDoS

Non-Malicious / Unintentional

## Who Did It?

Insiders

Hobbyists

State-sponsored

Common criminal

Grouping some  
of the terms

## Anonymity and Deep Web

Inability to trace crime back to bad actor

## Liquidity

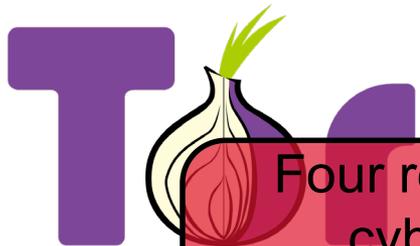
Speed or ease of converting data or information to money

## Movement of Funds

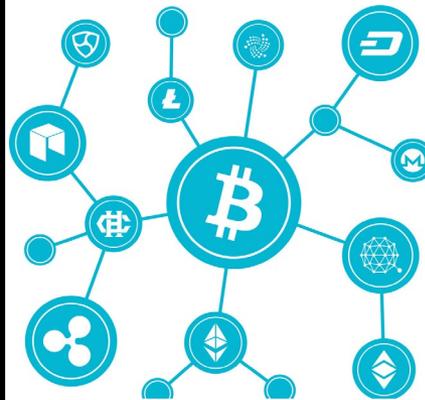
Further anonymity once monetised

## Internet of Things

Increasing amount of devices or 'doorways'

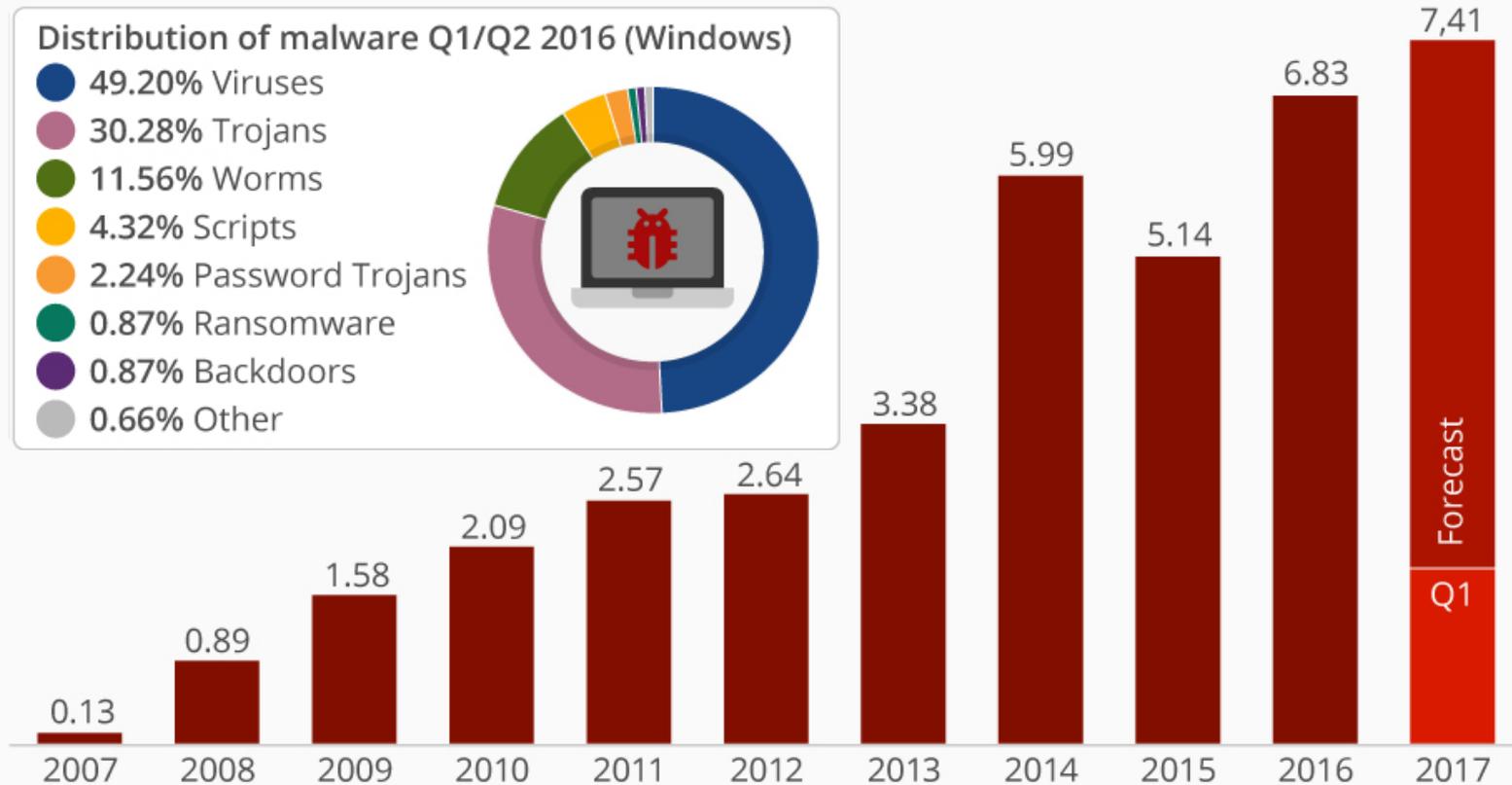


Four reasons why cyber crime frequency/severity is rising



## Viruses, Worms and Trojan Horses

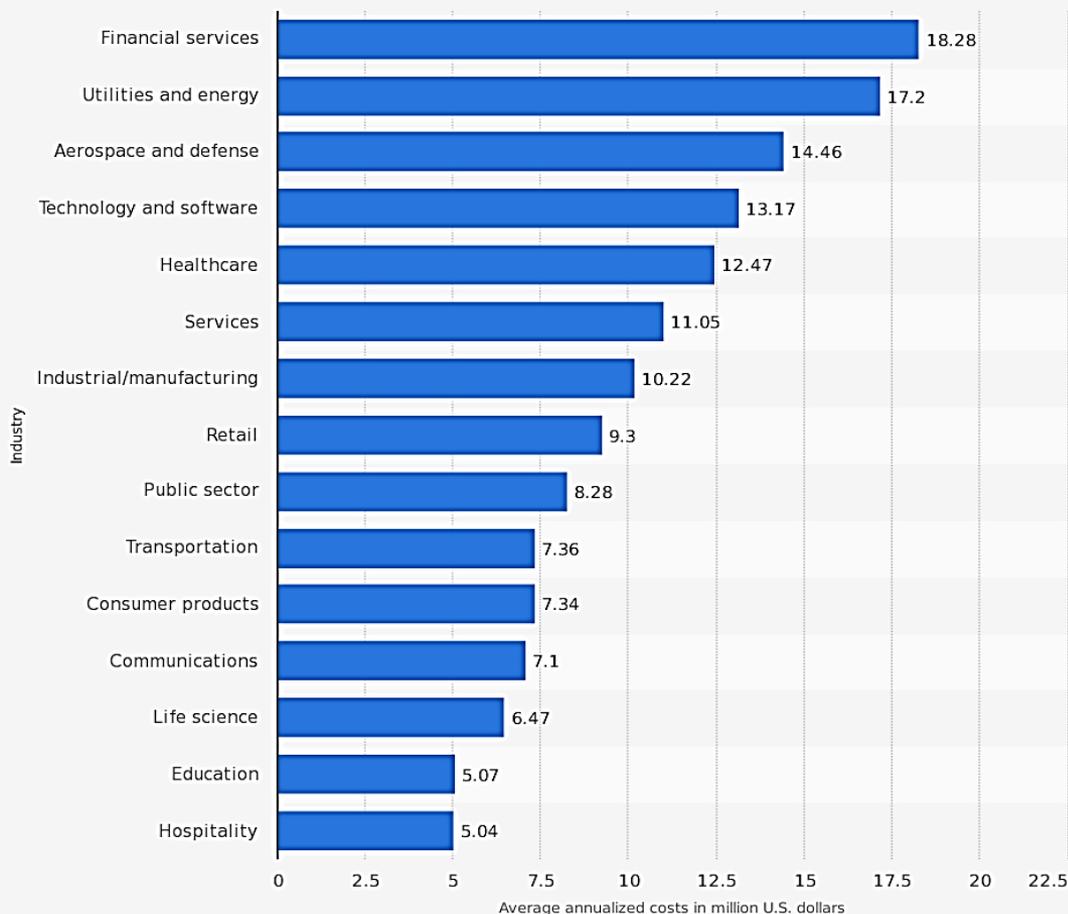
Number of new malware specimen (in millions)



# 04 – Cybercrime on the Rise



**Average annual costs caused by global cyber crime as of August 2017, by industry sector (in million U.S. dollars)**



Sources  
Ponemon Institute; Accenture  
© Statista 2018

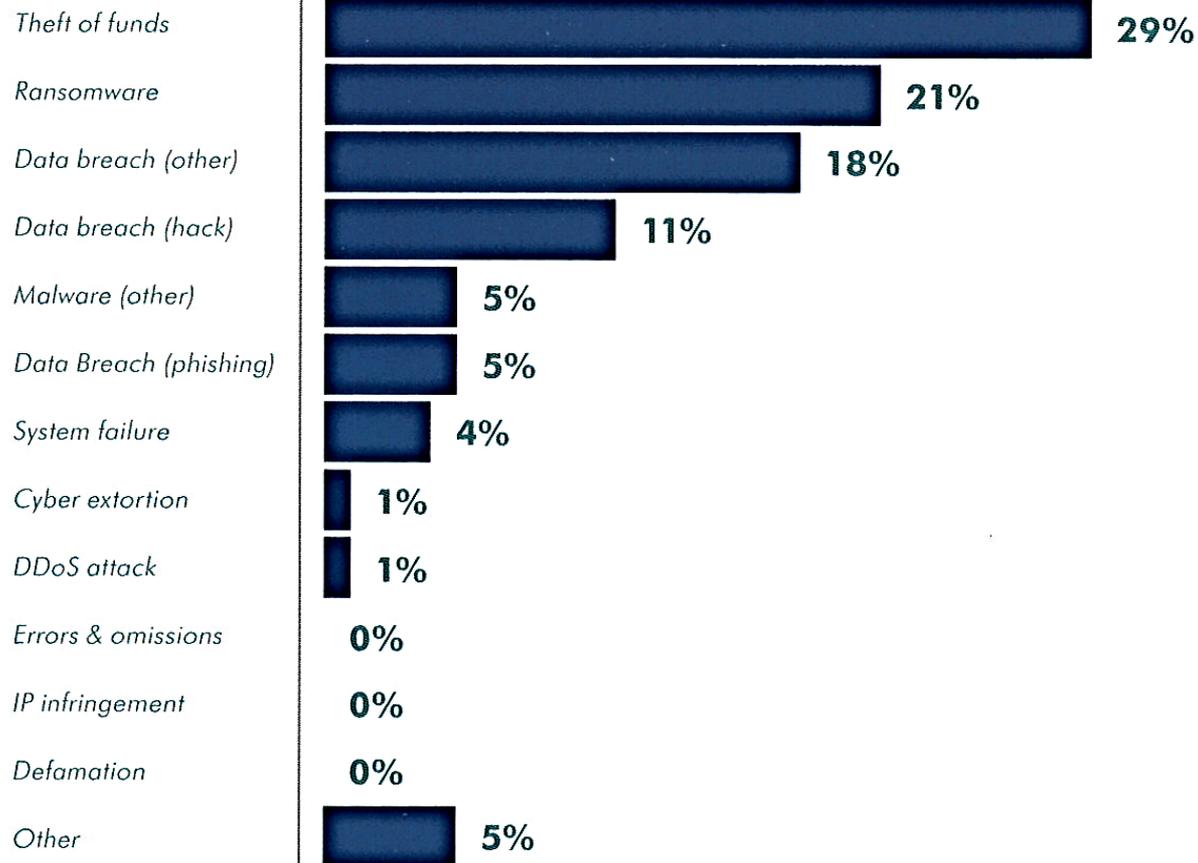
Additional Information:  
Worldwide; Ponemon Institute; August 2017; 254 organizations

Who is getting hit the hardest?

# 04 – Cybercrime on the Rise



## KEY 2017 CYBER STATISTICS



CFC Underwriting cyber claims statistics, 2017

# 04 – Cybercrime on the Rise



Realtime attacks (remember source location may be intentionally fabricated by attacker)



## ATTACK ORIGINS

| #  | COUNTRY       | #  | PORT  | SERVICE TYPE    |
|----|---------------|----|-------|-----------------|
| 56 | United States | 42 | 25    | smtp            |
| 15 | China         | 18 | 23    | telnet          |
| 9  | Turkey        | 9  | 53413 | netis-router    |
| 5  | Pakistan      | 5  | 8123  | unknown         |
| 3  | South Korea   | 3  | 123   | ntp             |
| 3  | Spain         | 3  | 3389  | ms-wbt-server   |
| 3  | Switzerland   | 3  | 443   | https           |
| 2  | Saudi Arabia  | 2  | 50864 | xsan-filesystem |
| 2  | Netherlands   | 2  | 5900  | rfb             |
| 2  | Italy         | 2  | 138   | netbios-dgm     |

## ATTACK TARGETS

| #  | COUNTRY              |
|----|----------------------|
| 75 | United States        |
| 16 | United Arab Emirates |
| 6  | France               |
| 2  | Saudi Arabia         |
| 2  | Italy                |
| 1  | Romania              |
| 1  | Norway               |
| 1  | Iceland              |
| 1  | Spain                |
| 1  | Canada               |

## LIVE ATTACKS

| TIMESTAMP    | ATTACKER   | ATTACKER IP     | ATTACKER GEO  | TARGET GEO         | ATTACK TYPE  | PORT |
|--------------|--|-----------------|---------------|--------------------|--------------|------|
| 12:28:02.132 | Microsoft Corporation                              | 207.46.100.250  | Redmond, US   | De Kalb Junctio... | smtp         | 25   |
| 12:28:01.944 | Tt Adsl-Tnet_Static_Gay                            | 78.188.115.38   | Istanbul, TR  | Dubai, AE          | telnet       | 23   |
| 12:28:01.748 | Public Allocation                                  | 49.213.41.54    | Ahmedabad, IN | San Francisco,...  | telnet       | 23   |
| 12:28:01.280 | Linode Llc   | 106.187.102.237 | Tokyo, JP     | San Francisco,...  | vcom-tunnel  | 8001 |
| 12:28:00.797 | This Ip Network Is Used For Internet Security R... | 185.35.62.53    | Geneve, CH    | Chennevieres-S...  | ntp          | 123  |
| 12:28:00.414 | Customers Procono                                  | 212.225.151.16  | Cordoba, ES   | Dubai, AE          | microsoft-ds | 445  |
| 12:28:00.212 | Microsoft Corporation                              | 137.56.111.246  | Redmond, US   | De Kalb Junctio... | smtp         | 25   |
| 12:28:00.031 | Carinet Inc.                                       | 209.126.135.2   | San Diego, US | Lynnwood, US       | domain       | 53   |
| 12:27:59.890 | ChinaNet Hubei Province Network                    | 116.211.0.90    | Wuhan, CN     | Dubai, AE          | unknown      | 8123 |
| 12:27:59.494 | Fuse Internet Access - Bras Evandale Region        | 74.215.214.149  | Mason, US     | Dubai, AE          | telnet       | 23   |



- HOME
- EXPLORE
- WHY NORSE?

# 05 – Who is at Risk?

## Large Business (Generalisations)

More data to steal

More money to steal

More personnel to manipulate

Larger status opportunity  
(Status for bad actor)

More computers to spread infections

Larger reliance on IT to operate

## SME (Generalisations)

Lesser-aware staff in cyber security

Lower IT security and protections  
*(prevention and detection)*

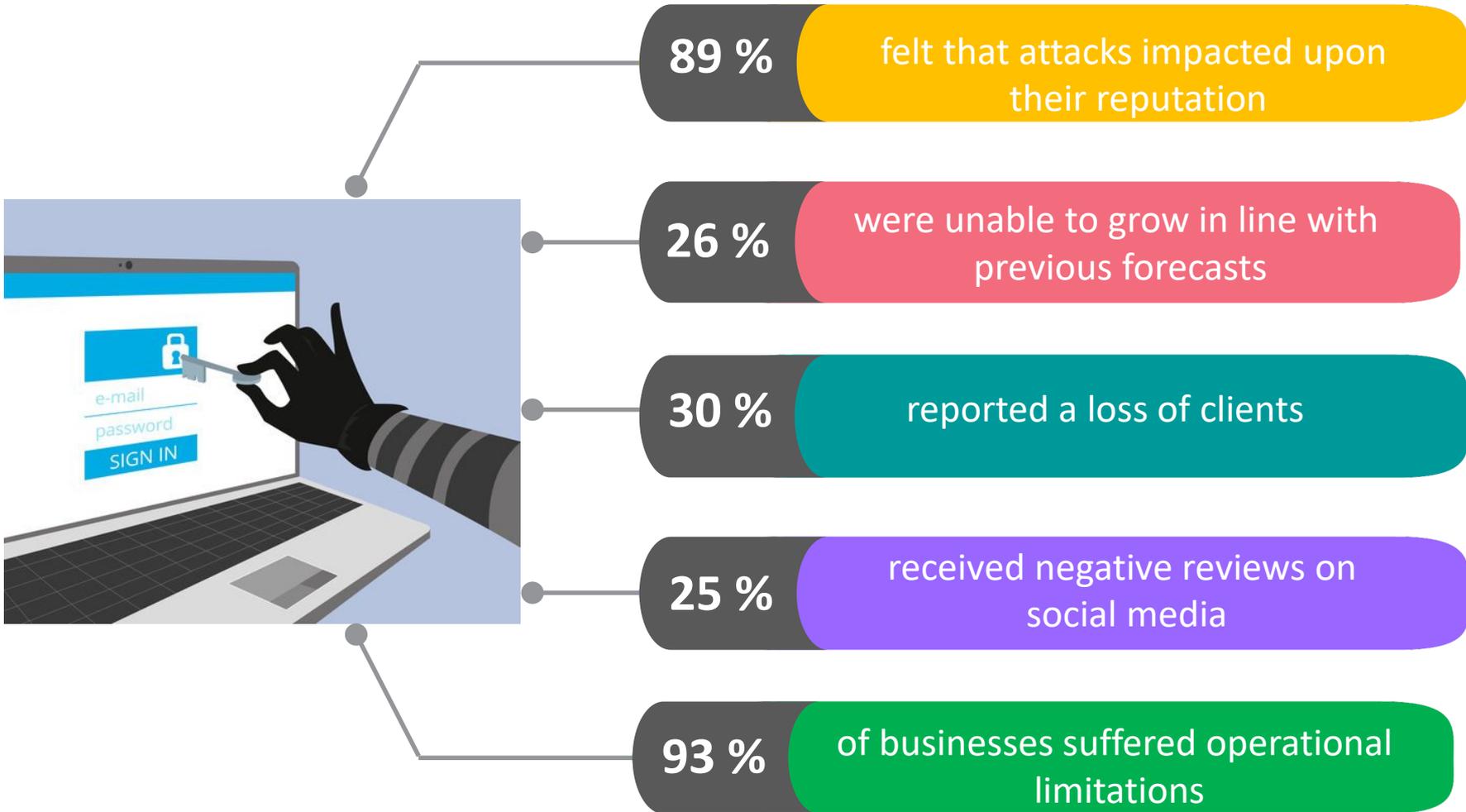
Lower controls on computer policy  
*(upgrades, personal USBs, personal software)*

Older operating systems

**47% of small businesses had at least one cyber attack in the past year**

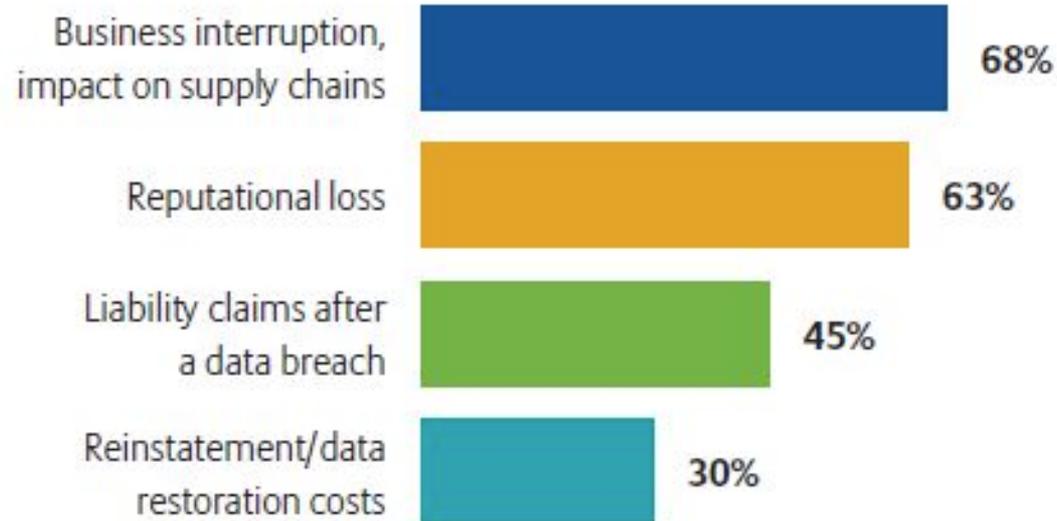
*Hiscox - Small Business Cyber Risk Report - 2018*

# 06 – Cause and Effect



Source: Cyber Streetwise campaign and KPMG report of SME victims

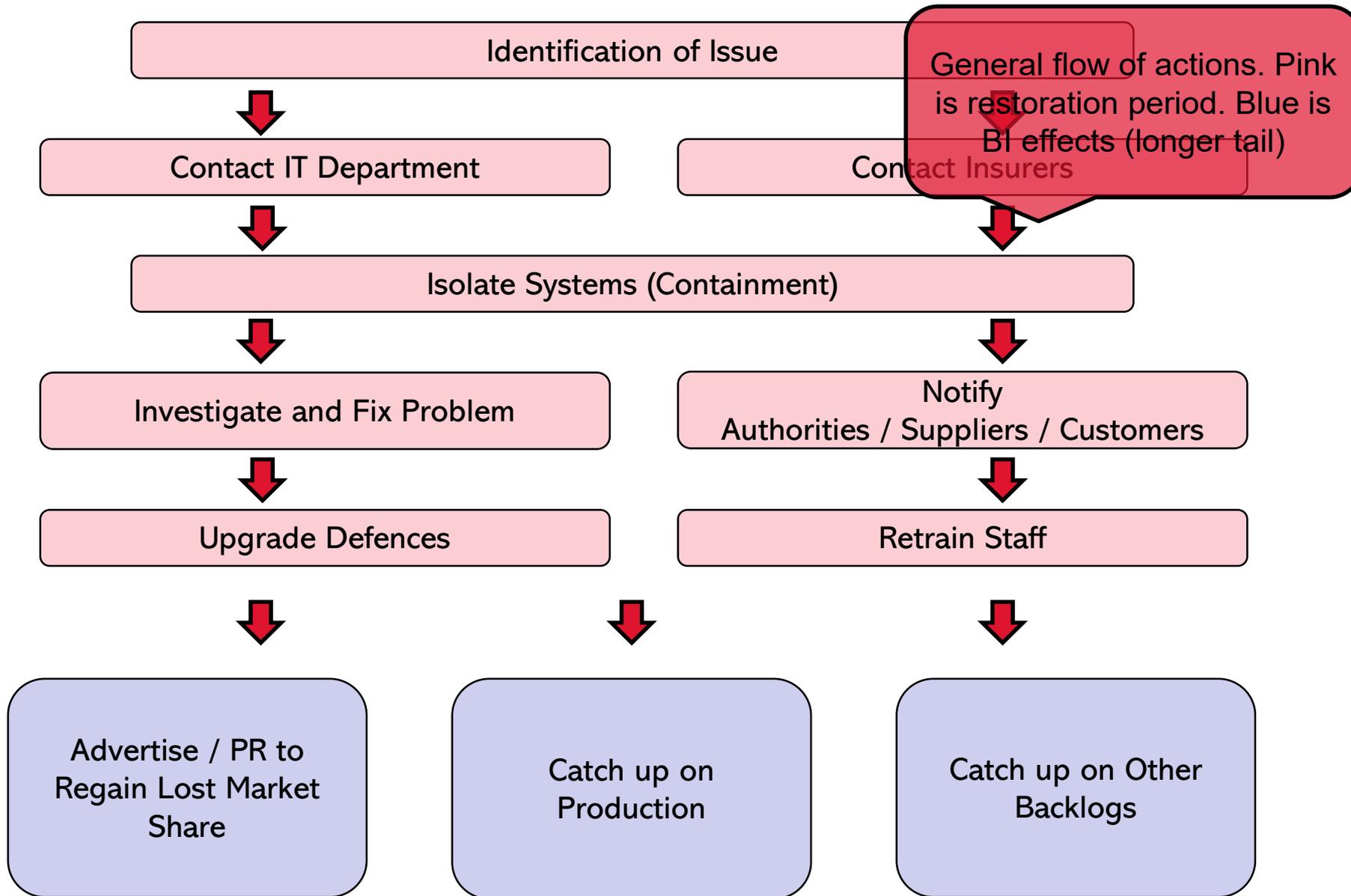
## What are the main causes of economic loss after a cyber incident?



Source: Allianz Global Corporate & Specialty. Figures represent the percentage of answers of all participants who responded (446). Up to three answers possible.

Source: Allianz Risk Barometer - 2017

# 07 – Claim on Policy



## EXAMPLES OF AVAILABLE CYBER COVER

### Costs

- Forensic investigation after a breach
- Legal fees managing the response to a breach
  - Notification to affected data subjects
  - Notification to ICO or other regulatory body
- Temporary call centre to take enquiries from affected data subjects
  - Credit monitoring for affected subjects
  - Ransom
- Risk consultancy firm to manage situation
  - PR firm - “Crisis containment”
- Repair, restoration or replacement of websites, programs or electronic data
  - System repair and possibly repeat event mitigation
    - Defend and settle third party claims
  - Regulatory investigations and civil penalties
    - Claims preparation

### Loss of Income and ICW

- Cyber business interruption – including due to loss of reputation
- Cyber business interruption – potentially including supply chain

Even claims prep may be included - which is a low-risk advantage for the Insured

# 07 – Claim on Policy

## Example Wordings For Inclusions

### Cyber and Data (mid-2018)

If during the period of insurance, and in the course of your business or advertising after the retroactive date, you discover or suspect a breach has occurred, we will pay all reasonable and necessary:

- a. breach forensic costs;
- b. outside legal fees you incur in managing your response to the breach;
- c. costs you incur to notify each affected data subject of the breach;
- d. costs you incur to notify any regulatory body, including the Information Commissioner's Office, of the breach where you are required by any law or regulation to do so;
- e. costs you incur to use a third-party call centre to answer enquiries from affected data subjects following notification of the breach to such data subjects; and
- f. credit monitoring costs;

Example wording of  
seemingly wide  
coverage

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- e. costs you incur to use a third-party call centre to answer enquiries from affected data subjects following notification of the breach to such data subjects; and
- f. credit monitoring costs;

**We will insure you for your loss of income**, including where caused by damage to **your** reputation, and any **increased costs of working**, resulting solely and directly from an interruption to **your business** commencing during the **period of insurance** and lasting longer than the **time excess**, due to:

- a. the activities of a third-party who specifically targets **you** alone by maliciously blocking electronically the access to **your computer system, programmes** or data **you** hold electronically; or
- b. a **hacker** who specifically targets **you** alone.

But policy may not respond if  
cyber attack is general and non-  
targeted (WannaCry?  
NotPetya?)

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- f. credit monitoring costs;

**We will insure you for your loss of income**, including where caused by damage to your reputation, and any increased costs of working, resulting solely and directly from an interruption to your business commencing during the period of insurance and lasting longer than the time excess, due to:

- a. the activities of a third-party who specifically targets you alone by means of any electronic means, including the access to your computer system, programmes or data you hold electronically; or
- b. a hacker who specifically targets you alone.



### Cyber (mid-2018)

**Virus, Hacking and Denial of Service Attack and Business Interruption** - We will cover You in respect of costs necessarily and reasonably incurred by You to locate and remove a detectable Virus or Similar Mechanism contained in any Computer Equipment caused by or resulting from a Virus or Similar Mechanism, Hacking or a Denial of Service Attack directed against You or any Outsourced Service Provider. *(Definition of Outsourced Provider: Any provider of information technology, data hosting or data processing services to You under contract excluding the supply of gas, electricity, water, telecommunication or internet service.)*

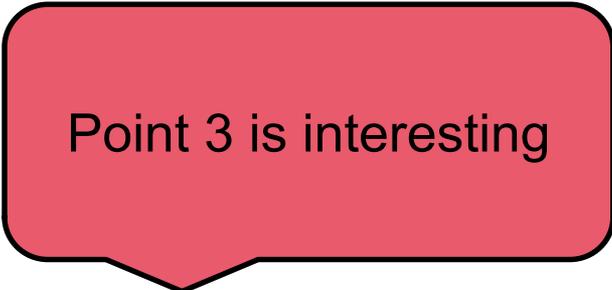
# 07 – Claim on Policy

## Example Wordings For Inclusions

### Cyber (2019)

**Ransom** - Following an illegal threat:

1. the reasonable and necessary fees of our appointed consultant, incurred by you with our prior written agreement, for advising you on the handling and negotiation of the ransom demand;
2. the cost of any ransom demand from the third-party or, if the demand is for goods or services, their market value at the time of the surrender; and
3. the amount of any stolen ransom, where such theft occurs at or in transit to the agreed location for payment of the ransom.



Point 3 is interesting

# 07 – Claim on Policy

## Example Wordings For Inclusions

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### Cyber (2019) (Not wording but on company website)

**Business Interruption** - this section covers the full supply chain, extending to events that impact the insured's systems, the systems of their technology suppliers as well as those of non-technology suppliers where named.



Supply chain

# 07 – Claim on Policy

## Example Wordings For Inclusions

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**Business Interruption** - this section covers the full supply chain, extending to events that impact the insured's systems, the systems of their technology suppliers as well as those of non-technology suppliers where named.

### Cyber (2019)

**Business Interruption** - We will pay your:

- i. loss of income;
- ii. increased costs of working; and
- iii. additional increased costs of working ...

Occasionally written on income basis rather than GP – which reduces underinsurance problems and simplifies claim calculation/explanation

*Income definition - The total income of your business, less any savings resulting from the reduced costs and expenses.*

## Example Wordings For Exclusions

### Cyber and Data (mid-2018)

1. any loss, theft, damage, destruction or loss of use of any tangible property. However, this exclusion does not apply to data.
2. any individual **hacker** within the definition of **you**.
3. any failure or interruption of service provided by an internet service provider, telecommunications provider, **cloud provider** but not including the hosting of hardware and software that **you** own, or other utility provider.

A red callout box with a black border and a pointed bottom, containing the text 'Exclusion for property'.

Exclusion for property

# 07 – Claim on Policy

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**credit monitoring costs** unless:

- a. arising from a **breach** of a **data subject's** National Insurance number, driver's licence number or other government issued identification number that can be used, in combination with other information, to open a new financial account;

Monitoring costs  
example which is  
dependant on what  
info was taken

# 07 – Claim on Policy

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### Cyber Cover (mid-2018)

#### **Patent**

Any patent being infringed (broken, limited or undermined) without the patent holder's permission.

# 07 – Claim on Policy

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### Cyber Cover (mid-2018)

Hack by director or partner – We will not make any payment for any claim, loss or any other liability under this section directly or indirectly due to (i) any individual hacker within the definition of **you**

*Definition of **you**: any person who was, is or during the period of insurance becomes your partner, director, trustee, in-house counsel or senior manager in actual control of your operations...*

## Variances in BI Indemnity Period

### > Cyber and Data (mid-2018)

- The period, in months, beginning at the date the interruption to **your business** commences and lasting for the period during which **your income** is affected as a result of such interruption, but for no longer than the number of months shown in the schedule.

### > Cyber and Commercial Crime (mid-2018)

- Reduction of Business Income sustained by the Insured during a Period of Restoration due to the interruption of the Insured's business operations. (Period of Restoration: *the period beginning with the date that business operations have first been interrupted and ending on the earlier of: 1. the date when the business operations have been restored substantially to the level of operation that existed prior to the interruption; or 2. three hundred and sixty five (365) days after the business operations have first been interrupted.*)

Be careful as indemnity period definitions are not always the same, and may be ambiguous

# Services Provided

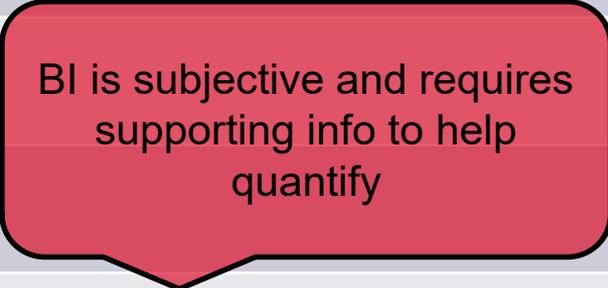


Depending on cyber cover purchased, the premium is almost like a retainer for these professional services



# Categories of Costs or Losses

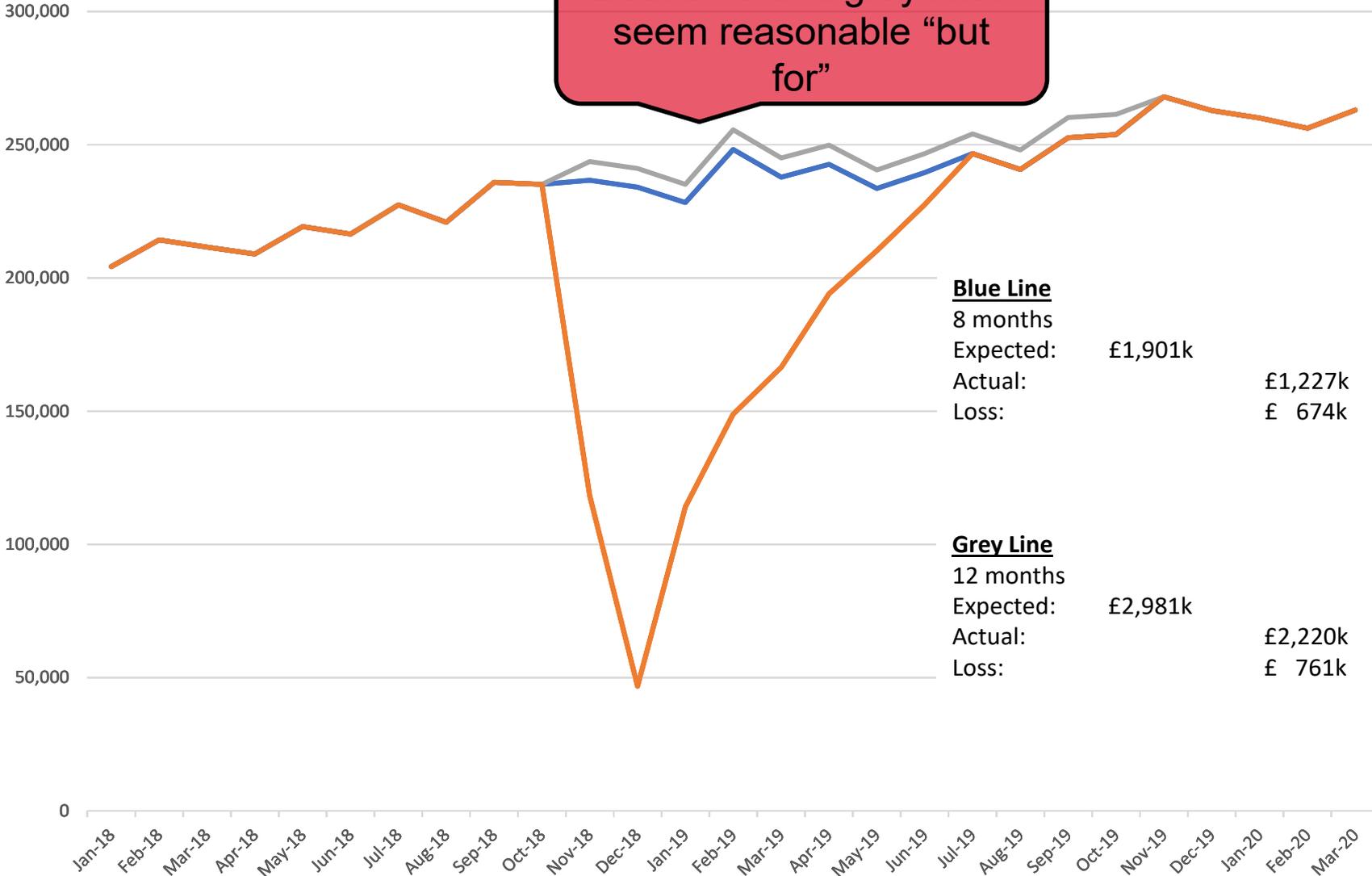


| Objective   | Subjective   |
|---|--|
| IT costs for identifying and containing problem           | Increase in security (betterment)  |
| IT costs for rebuilding/reconfiguring servers or websites | Loss of profit / earnings  |
| PR and advertising  |  |
| Temporary call centre costs                               |  <p>BI is subjective and requires supporting info to help quantify</p> |
| Notification costs  |  |
| Cost of ransom  |  |
| Retraining staff costs                                    |  |
|   |  |

# Example Subjectivity



Both blue and grey lines seem reasonable "but for"



# Supporting Subjectivities



Sales by Customer / Region / Product

Correspondences with Potential Customers

Monthly Profit and Loss Accounts

Contracts and Agreements

VAT Returns

Industry Data or Statistics

Annual Accounts

Data on Web Traffic

Budgets and Forecasts

Data on Link Clicks

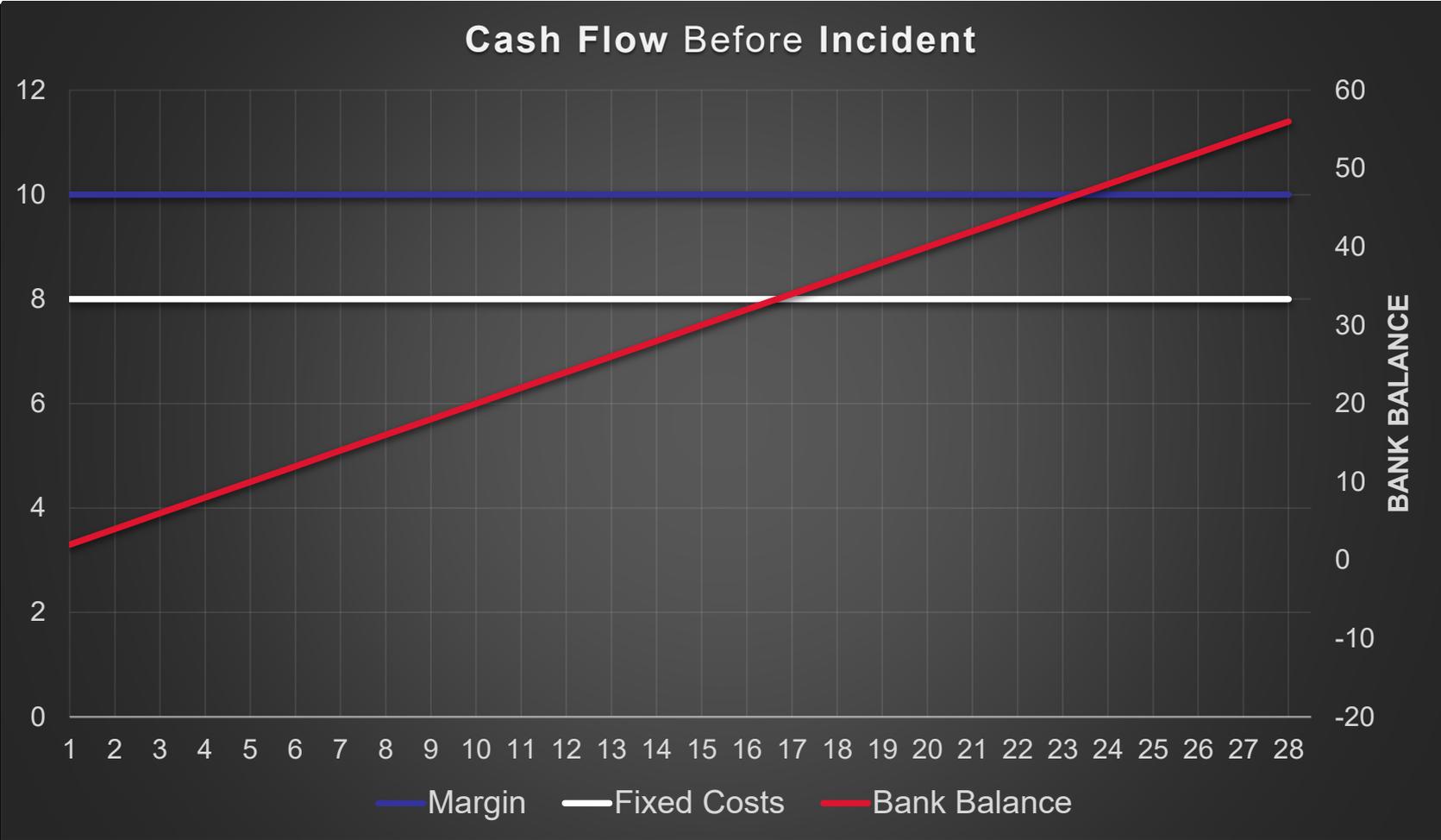
Production Data

Conversion of Web-Visits/Clicks to Purchase

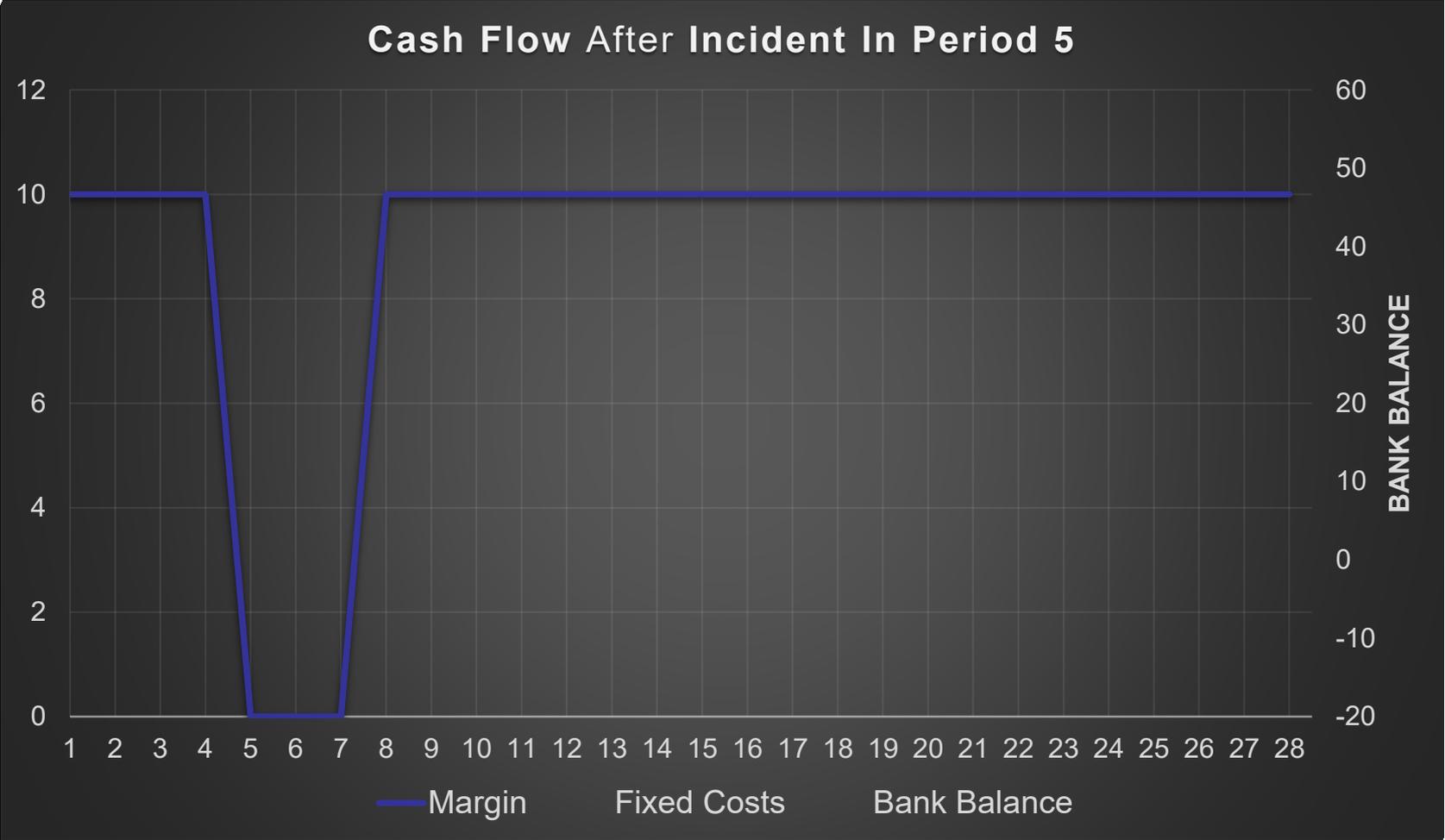
Explanations to Outliers

Information on Bottlenecks

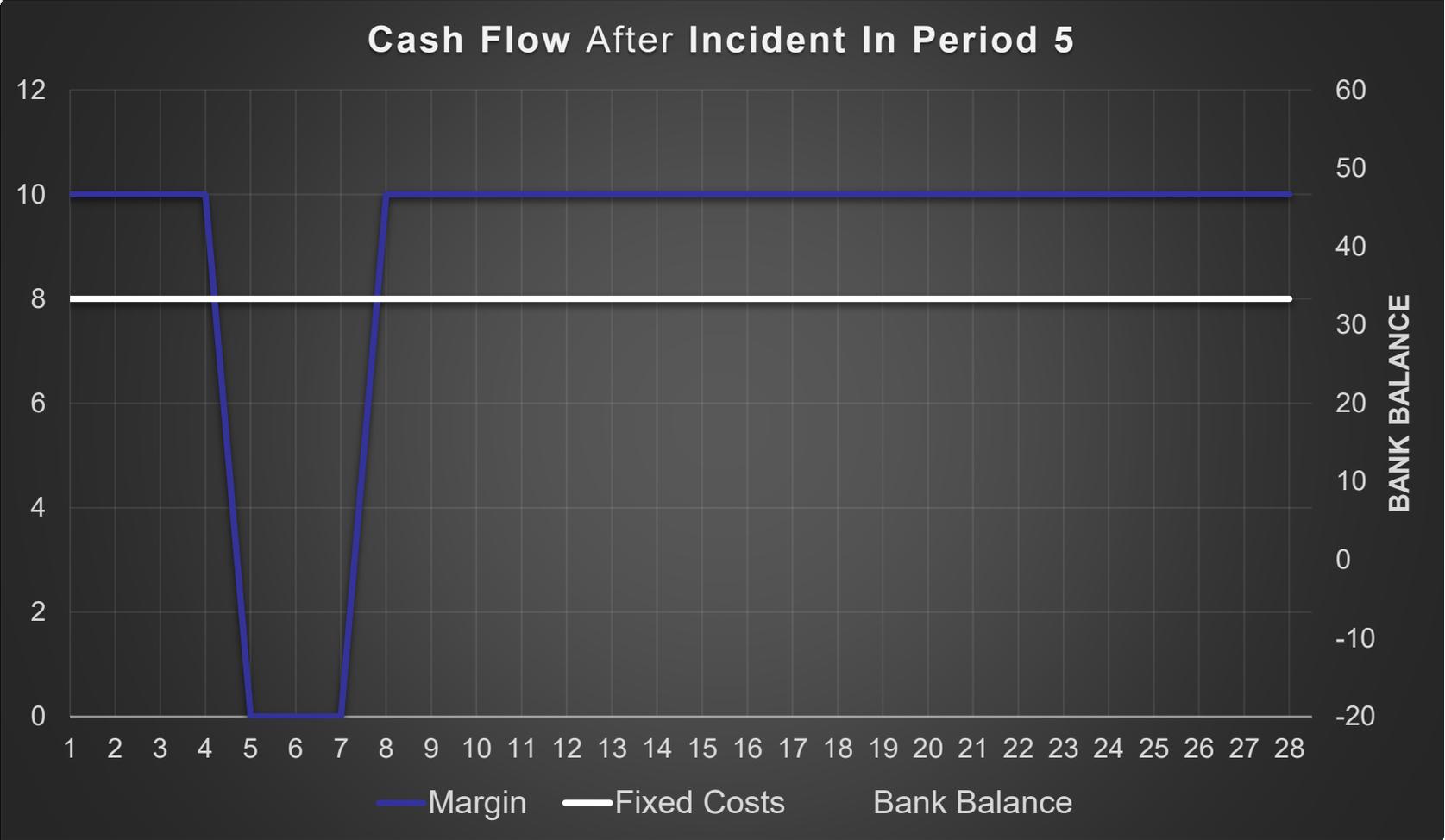
# Importance of Cash Flow



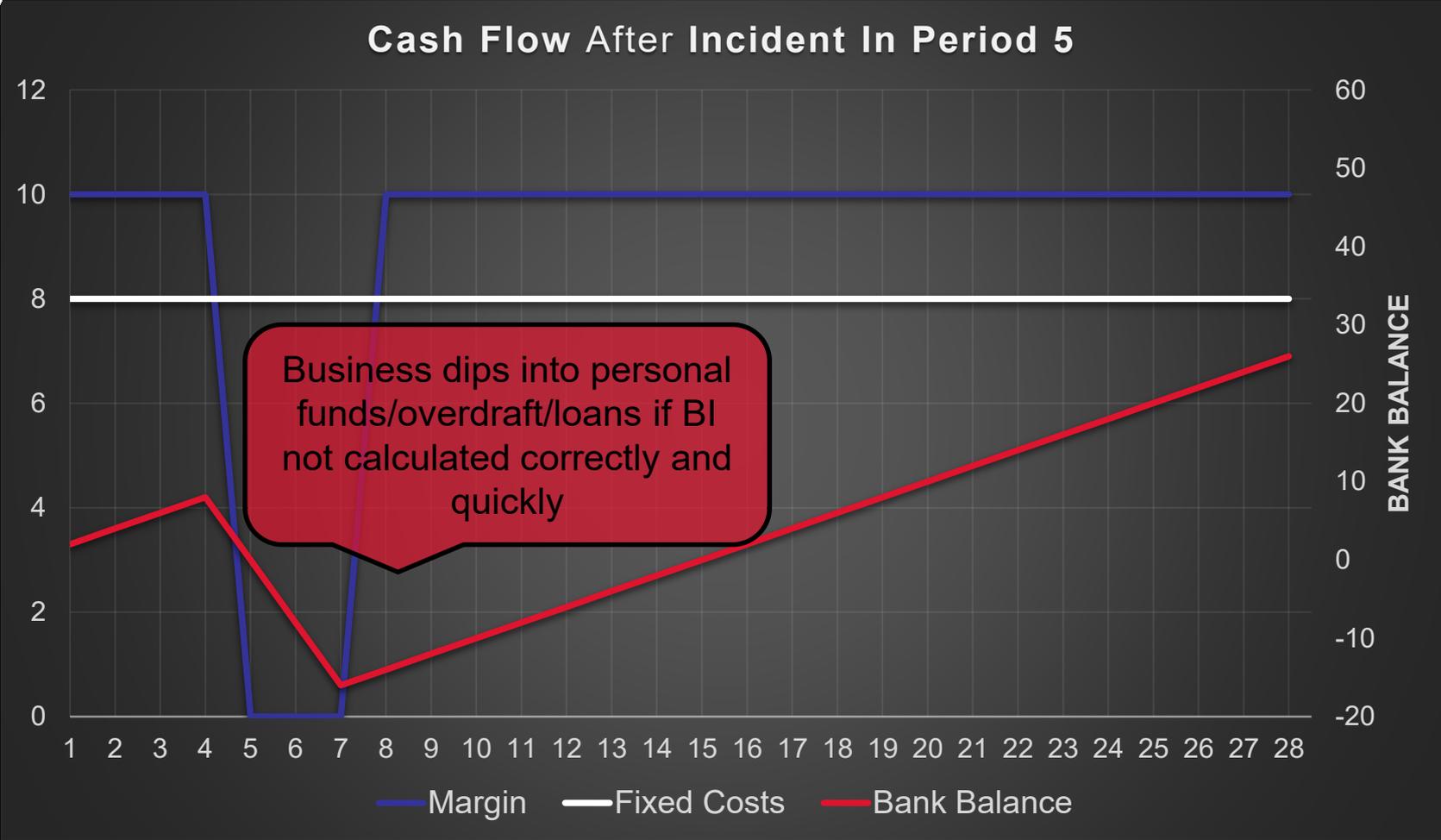
# Importance of Cash Flow



# Importance of Cash Flow

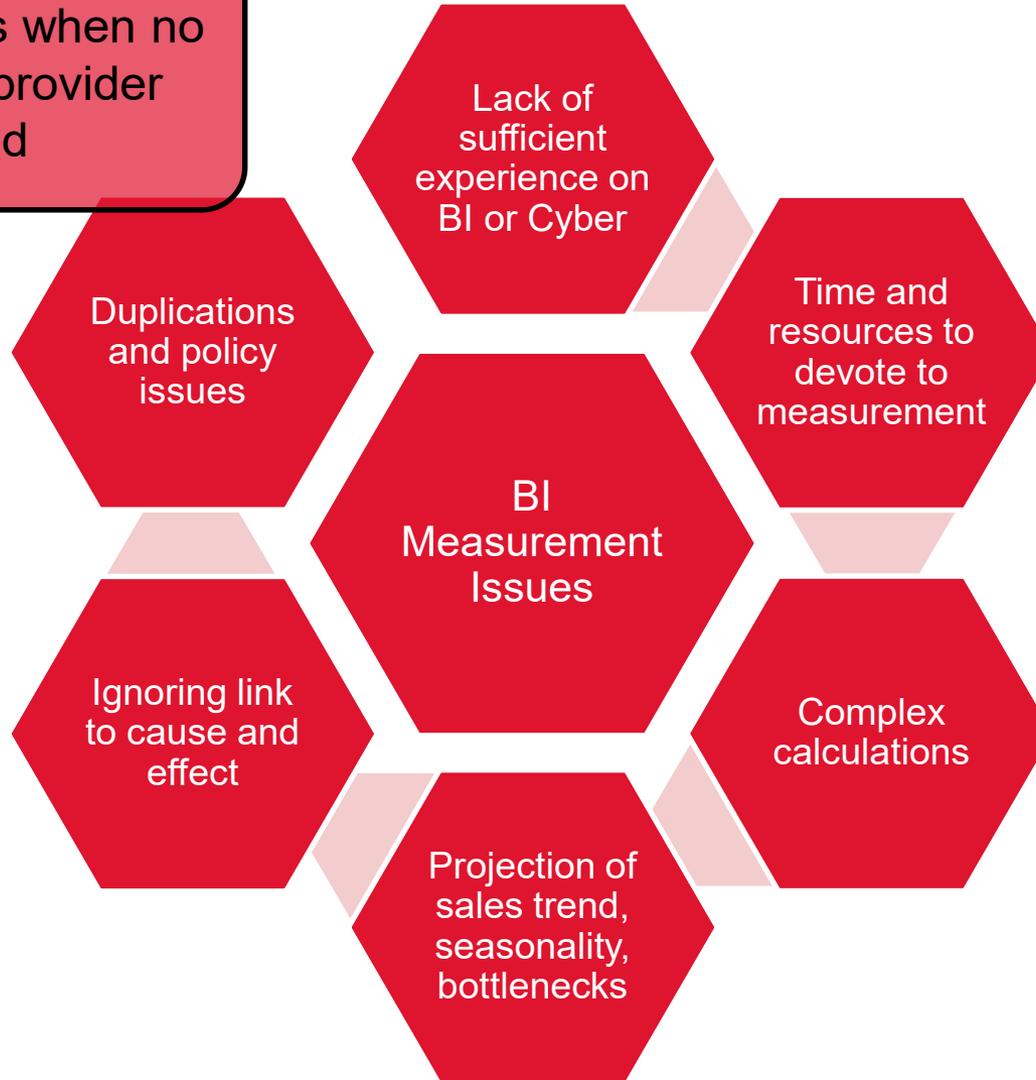


# Importance of Cash Flow



# Cyber BI Claim Issues

Possible issues when no specialist BI provider involved

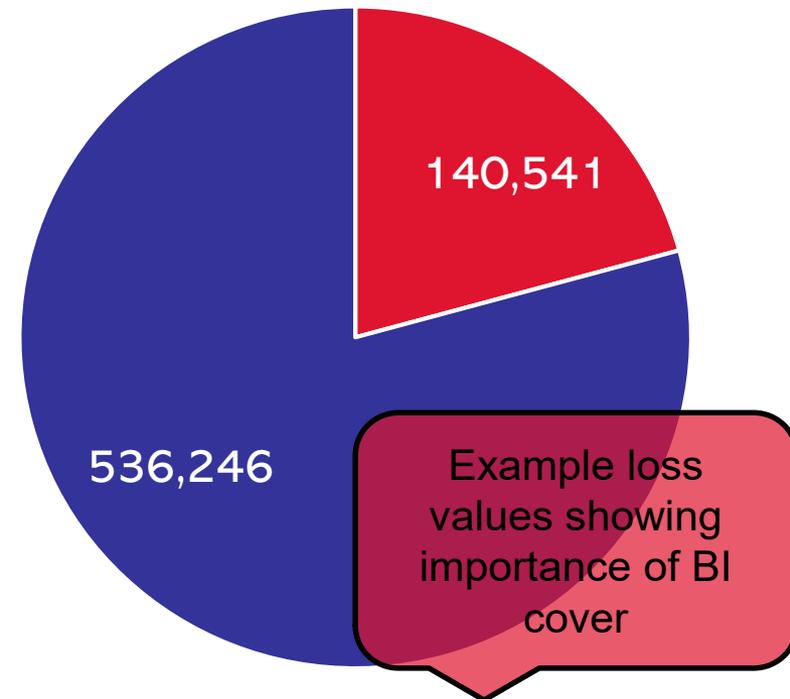


# How Important Is BI?



|   |                |
|---|----------------|
| Temporary IT equipment                        | 49,103         |
| Assistance on server rebuild and data storage | 19,100         |
| System restoration                            | 12,975         |
| Legal handling of matters                     | 12,584         |
| Customer support (salaries)                   | 9,736          |
| Injunction costs                              | 8,264          |
| Ongoing IT assistance                         | 6,350          |
| Scanning network for malware                  | 5,927          |
| Recover old mailboxes. Configure mail server  | 3,525          |
| Investigation                                 | 3,140          |
| Initial IT assistance                         | 2,945          |
| Install and configure new mail servers        | 2,650          |
| IT Engineer call out charges                  | 1,719          |
| Configure mail servers                        | 1,025          |
| Notification costs                            | 896            |
| Data recovery                                 | 603            |
| <b>TOTAL</b>                                  | <b>140,541</b> |

|              |   |
|--------------|---|
| Mid-Mar 2018 | Breach via attachment on phishing email (approx. 2am) |
| 09-May-18    | Final server (mail server) configuration completed    |



■ Costs Incurred

■ Business Interruption Losses

By attending this event you will gain a further understanding of:

- > the growing prominence of cybercrime as a risk to businesses;
- > the effects on a business from a cyber breach;
- > appreciation of the possible magnitude of economic damage from a cyber attack;
- > interpretation of cyber risk policies;
- > Business Interruption losses flowing from cyber damage

# Thank You



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