

The background features a light gray trapezoidal shape on the left that tapers to the right. A dark blue horizontal band is positioned below the gray shape, and a black horizontal band is at the very bottom. Two lines, one black and one yellow, originate from the top center and extend downwards to the right, crossing the blue and black bands.

▶ **CYBER RISK**

What it is and how to manage it.

WHAT IS CYBER?

...relating to or characteristic of the culture of **computers, information technology, and virtual reality**

- Google

WHAT IS CYBER RISK?

'Cyber risk' means any risk of **financial loss, disruption or damage** to the reputation of an organisation from some sort of failure of its information technology systems.

– Institute of Risk Management

Where does **information security** come in?

The background features a dark blue-grey gradient with a light grey area at the top. A yellow line and a black line intersect, creating a sharp diagonal cut across the scene. A yellow rectangular box highlights the main title text.

WHY MANAGE CYBER RISK?

YOUR CUSTOMERS EXPECT YOU TO BE SECURE

Customers naturally assume that you are secure – by default.

YOUR CUSTOMERS EXPECT THEIR DATA TO BE PRIVATE

Cyber security should be a priority. Businesses are obliged to protect customer data in line with the ever-changing security landscape and data regulations such as GDPR.

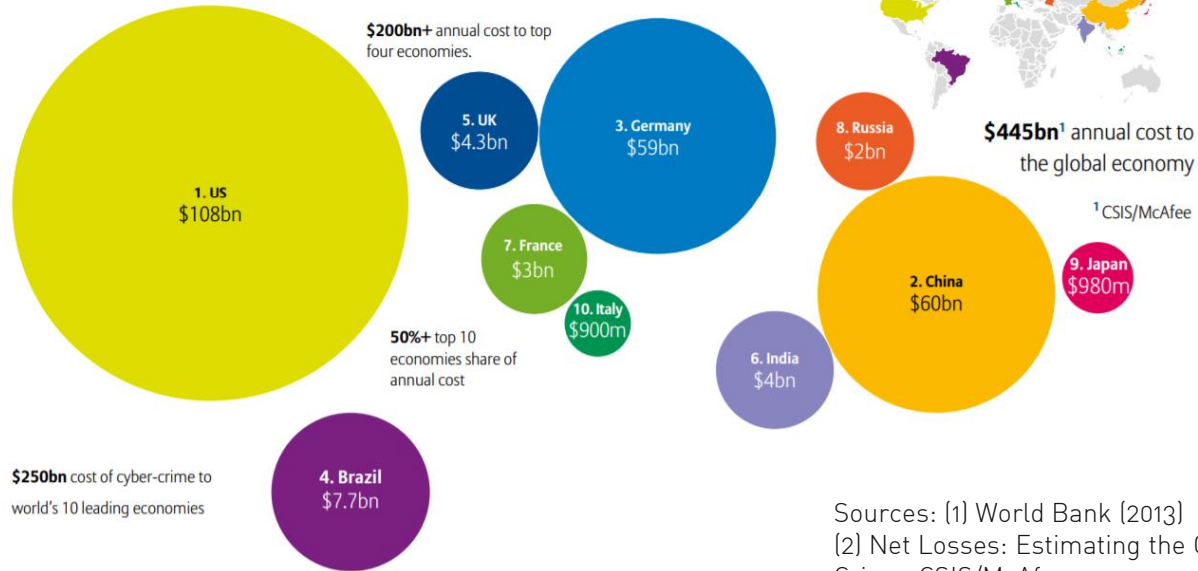
YOUR REPUTATION SHOULDN'T BE AT RISK

Any breach incident could affect your customers' trust in your business, your profit, as well as your brand reputation.

The background features a layered design with a light grey top section, a dark blue middle section, and a black bottom section. A thin black line and a thin yellow line run diagonally across the image from the top left towards the bottom right. The text 'LET'S SET THE SCENE' is centered within a yellow rectangular box in the dark blue section.

LET'S SET THE SCENE

THE SIZE OF THE PROBLEM




Sources: (1) World Bank (2013)
(2) Net Losses: Estimating the Global Cost of Cyber-Crime, CSIS/McAfee
(3) Allianz Global Corporate & Specialty
* Rankings according to cyber-crime.org

DATA BREACH HEADLINES

523 views | Jun 20, 2019, 07:32am

Florida City Agrees To Astonishing \$600,000 Ransom Payout

Kate O'Flaherty Contributor @Cybersecurity
I'm a freelance cyber security journalist.



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FILE - In this Dec. 12, 2016, file photo illustration, a person types on a laptop in Florida. Riviera Beach, Fla., agreed to pay \$600,000 in ransom to hackers who took over its computer system, the latest in thousands of attacks worldwide aimed at extorting money from governments and businesses. Spokeswoman Rose Anne Brown said Wednesday, June 19, 2019, that the city of 35,000 residents has been working with outside security consultants, who recommended the ransom be paid. (AP Photo/Wilfredo Lee, File) ASSOCIATED PRESS

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Trans charity Mermaids UK 'deeply sorry' for data breach

16 June 2019



GETTY IMAGES

A charity supporting transgender children and young people has issued an apology after thousands of emails were made public online.

Mermaids UK said it was "deeply sorry" for what it called a "historical data breach" after it was first reported by the **Sunday Times**.

The paper claims the correspondence included "intimate details", names and addresses, but the charity denies this.

Mermaids said it had taken immediate action and reported the breach.

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Forbes

Billionaires Innovation Leadership Money Consumer Industry

27,993 views | Jun 20, 2019, 10:56am

Confirmed: NASA Has Been Hacked

Davey Winder Contributor @Cybersecurity
I report and analyze breaking cybersecurity and privacy stories



GETTY

The U.S. National Aeronautics and Space Administration (NASA) this week confirmed that its Jet Propulsion Laboratory (JPL) has been hacked. An audit document from the U.S. Office of the Inspector General was published by NASA this week. It reveals that an unauthorized Raspberry Pi computer connected to the JPL servers was targeted by hackers, who then moved laterally further into the NASA network. How much further? Well, the hackers apparently got as far as the Deep Space Network (DSN) array of radio telescopes and numerous other JPL systems.

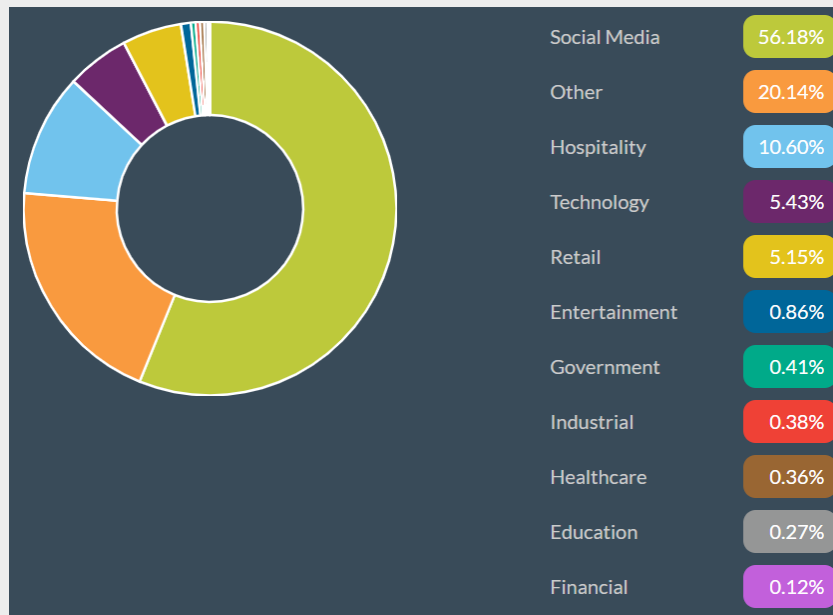
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DATA BREACH TRIVIA

- ▶ Nearly 5 million data records are lost or stolen worldwide every single day – Breach Level Index
- ▶ The global average cost of a breach is \$3.6 million, or \$141 per data record.
- ▶ Breaches that result in:
 - ▶ less than 10,000 records being compromised, the average total cost is \$1.9 million
 - ▶ 50,000 or more that rises to \$6.3 million

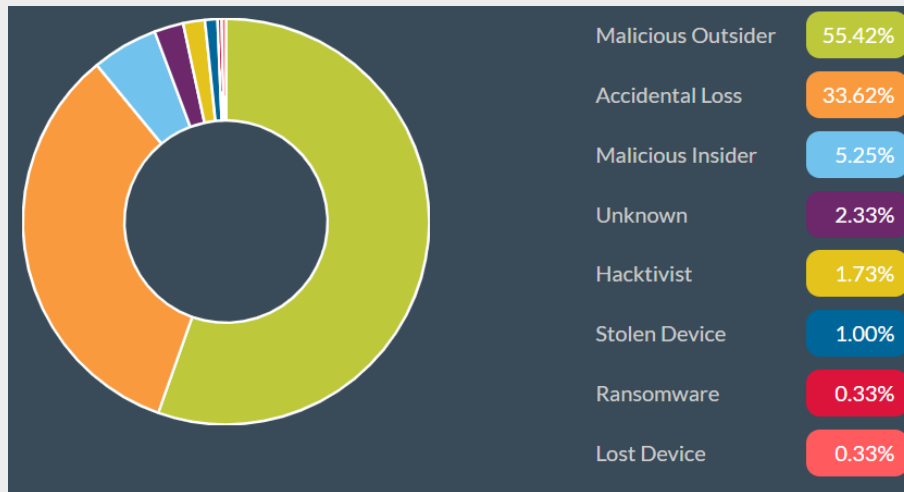
Above figures from Ponemon Institute (2018)

BREACH INCIDENTS BY INDUSTRY



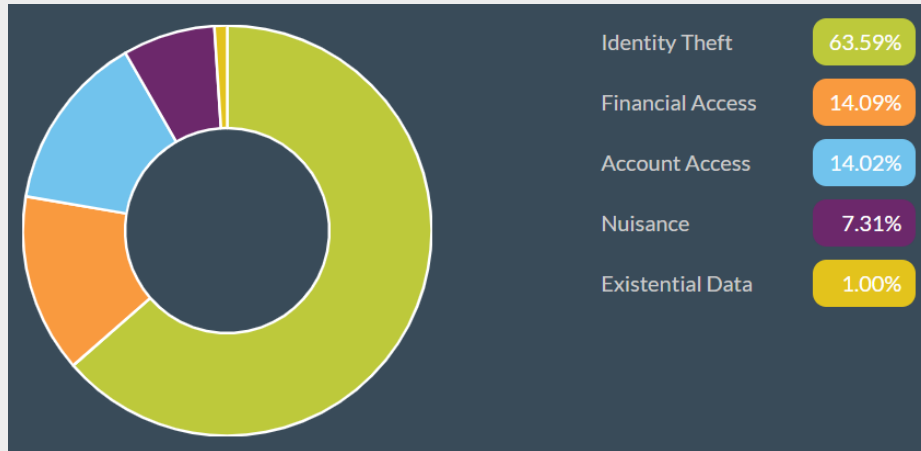
Gemalto Breach Level Index
(20.06.19)

BREACH INCIDENTS BY SOURCE



Gemalto Breach Level Index
(20.06.19)

BREACH INCIDENTS BY TYPE

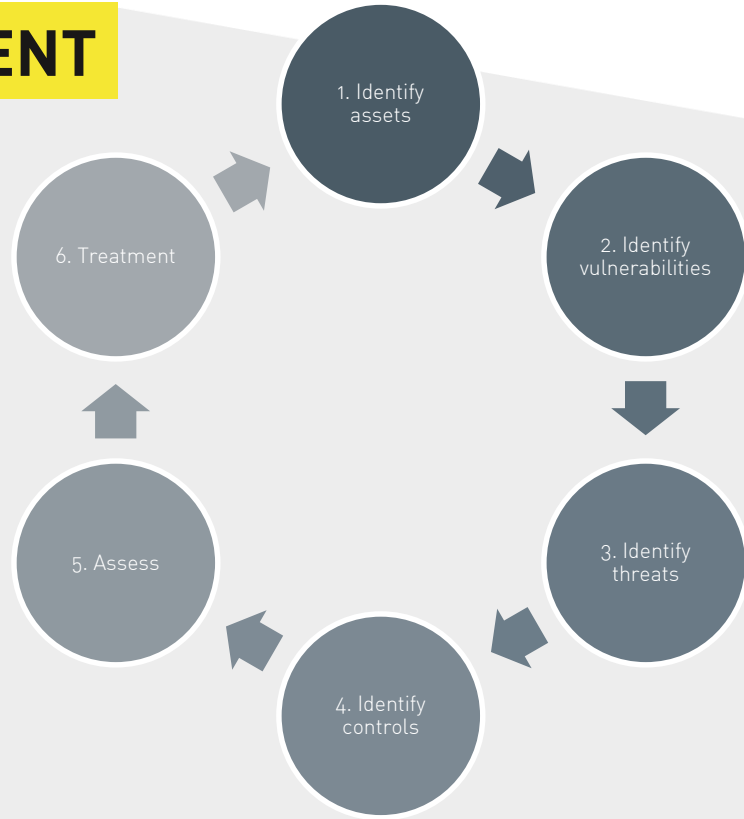


Gemalto Breach Level Index
(20.06.19)

The background features a dark blue-grey gradient with a light grey area at the top. A yellow line and a black line intersect, creating a sharp diagonal cut across the scene. A yellow rectangular box is positioned on the left side, containing the text 'CYBER RISK PROCESS'.

CYBER RISK PROCESS

RISK MANAGEMENT



RISK ASSESSMENT

- ▶ Process of combining the information from
 - ▶ Asset discovery
 - ▶ Vulnerabilities
 - ▶ Controls

Risk = (Threat x Vulnerability (exploit likelihood x exploit impact)
x Asset Value) – Security Controls

RISK TREATMENT

Remediation

- Implement controls
- Fully fix the issue

Mitigation

- Reduce the likelihood and/or impact
- Doesn't entirely fix the risk

Transference

- Purchase insurance
- Use a 3rd party

Acceptance

- Don't fix the risk
- Cost of fix outweighs the asset

Avoidance

- **Remove all exposure to an identified risk**

The background features a layered design with a light grey top section, a dark blue middle section, and a black bottom section. A thin black line and a thin yellow line run diagonally across the image from the top center towards the bottom right. The text 'PRACTICAL CONTROLS' is centered in a yellow box on the left side of the blue section.

PRACTICAL CONTROLS

TOP MEASURES TO REDUCE YOUR RISK

- ▶ Train your staff
- ▶ Implement a good email filter
- ▶ Implement strong perimeter controls
- ▶ Test your systems (web and networks) regularly
- ▶ Implement secure development practices and operations
- ▶ Patch your systems
- ▶ Implement good password policies
- ▶ Install anti-virus
- ▶ Control who has access to information (principle of least privilege)

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LAST THOUGHTS...

Why is cyber security so difficult?

Your staff are **RESPONSIBLE** for security
You are **ACCOUNTABLE**



THANK YOU.

To find out more about The Security Bureau
call us on 01273 855 269 or email
info@thesecuritybureau.com

THE SECURITY BUREAU