



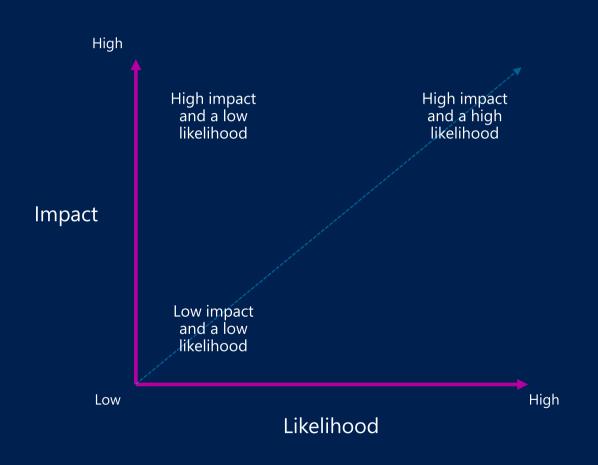


# The UK Government view on Cyber

"It is vitally important that we protect the UK's interests in cyber space. The internet provides enormous benefits and opportunities for the UK's industries, government and public but as our reliance on it grows, so do the risks and threats we face online.

These threats and opportunities are likely to increase significantly over the next five to ten years, as our dependency on cyber space deepens.

Our national security, as well as our economic prosperity, will depend on our ability to protect ourselves in cyber space."







# National Security Risk Assessment (NSRA)

• Large scale conventional military attack (not including CBNR weapons) on the UK • Significant increase in the number of terrorists, criminals, illegal immigrants or illicit goods entering the Tier 3 • Chemical, Biological, radiological or nuclear attack on the UK by another state • Insurgency or civil war overseas which created an environment terrorists can exploit to threaten UK Tier 2 • A significant increase in organised crime • Severe disruption to information received, transmitted or collected by satellites • Hostile attacks on UK cyber space • International Military crisis Tier 1 International terrorism A major accident or natural disaster



# Information Security Breaches in the UK

90%

69%

£3.14m

Had a breach

External attack

Cost 10101010 1011100010 10101010







### Threat Actors

60%

40%

Other

State

100 10101010 1011100010 10101010







## Large Scale Technology Trends

#### Mobile



By **2016**, smartphones and tablets placed power in the pockets of a billion global consumers

The world's **mobile** worker population reached

1.3 billion over 37% of the total workforce in 2015

#### Social



Millennials
will make up
75% of
the American
workforce by 2025

65% of companies are deploying at least one social software tool.

#### Cloud



Over **80%** of **new apps** will be distributed or deployed on clouds in **2012**.

70% of organizations are either using or investigating cloud computing solutions

### Big Data

**Digital content grew** to

2.7ZB in 2012, up 48% from 2011, rocketing toward 8ZB in 2015.





**80% growth** of unstructured data is predicted over the **next five years**.



## Complex Challenges need new approaches



Exponential Land hestication Modern Land alware hestiea tied Mobile files st

Malicious software SUSPI POST Targeted attacks



rise in Mobile **Malware** 





more compromised records

Data theft & **Cyber terrorism** insider leaks **technolo** & hacktivism accounts **stolen** 



77 Million user accounts stolen credit card



200,000 accounts stolen 90,000 24,000

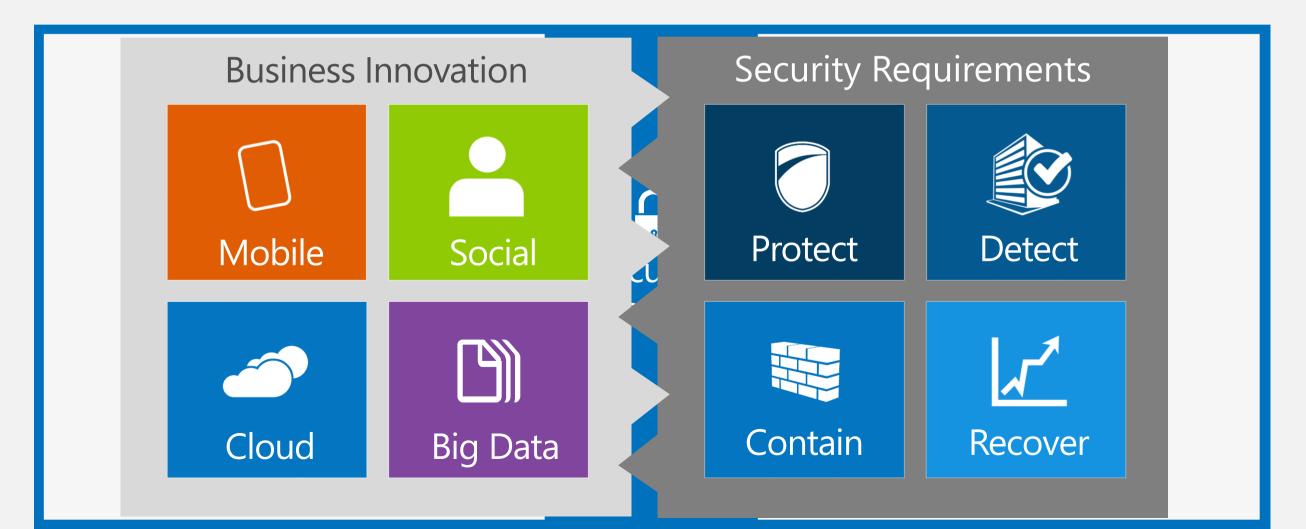
email addresses

stolen from US military contractor

files stolen from Pentagon



## Burpros Ferls in De Biograph Technology





### Working to Make the Ecosystem Secure

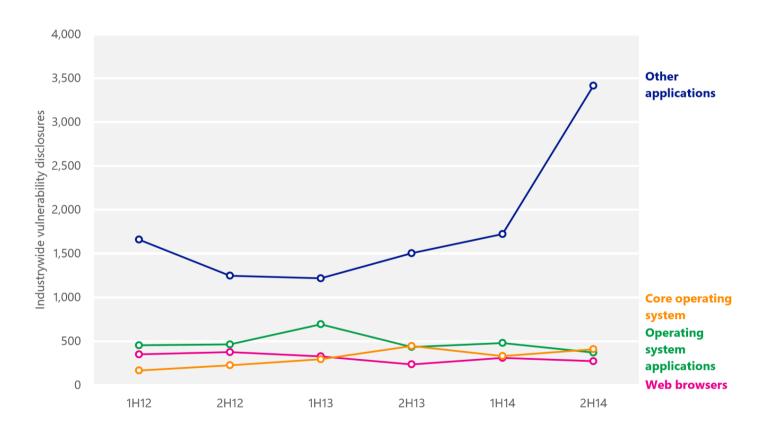








## OS, browser and application vulnerabilities globally



#### **Microsoft**

1. No assistance in offensive efforts

2. Collaborative and proactive defence

3.
Collaborative remediation after attacks

4. Software patches available to all

5. Coordinated disclosure practices for vulnerabilities

6. Support for intergovernment al defence efforts



