



Carbon Cloud

Next-Gen Cyber
Security

Why do things differently?

Creating **intelligent** solutions

SECURITY

Nearly 200 million US voter records leaked

Personal details of American voters were stored on an unsecured and exposed server.

The cumulative cost of data breaches is expected to reach a whopping \$8 trillion according to research firm.

Global spending on **cybersecurity solutions** will grow by 33% over the next four years, reaching \$134bn annually by 2022, according to Juniper Research.

"WannaCry" ransomware attack losses could reach \$4 billion

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UK Data Breaches H1 2017

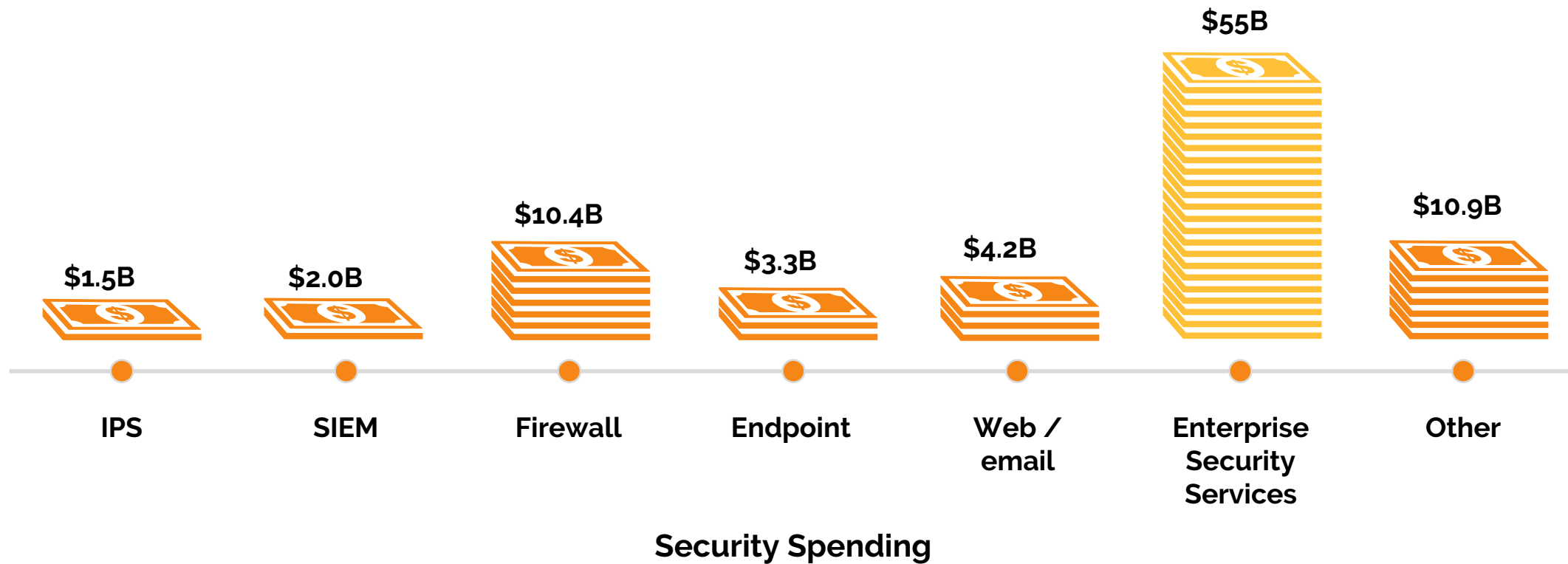
Debenhams, Wonga, Three, ABTA, Lloyds Banking Group

'Petya' ransomware attack strikes companies across Europe and US

Ukraine government, banks and electricity grid hit hardest, but companies in France, Denmark and Pittsburgh, Pennsylvania also attacked

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\$80 billion will be spent on protecting data, but **breaches** will still be **commonplace**

AI and Machine Learning

Creating **intelligent** solutions



Skills Shortage

66% Organisations report that they have too few cyber security workers.

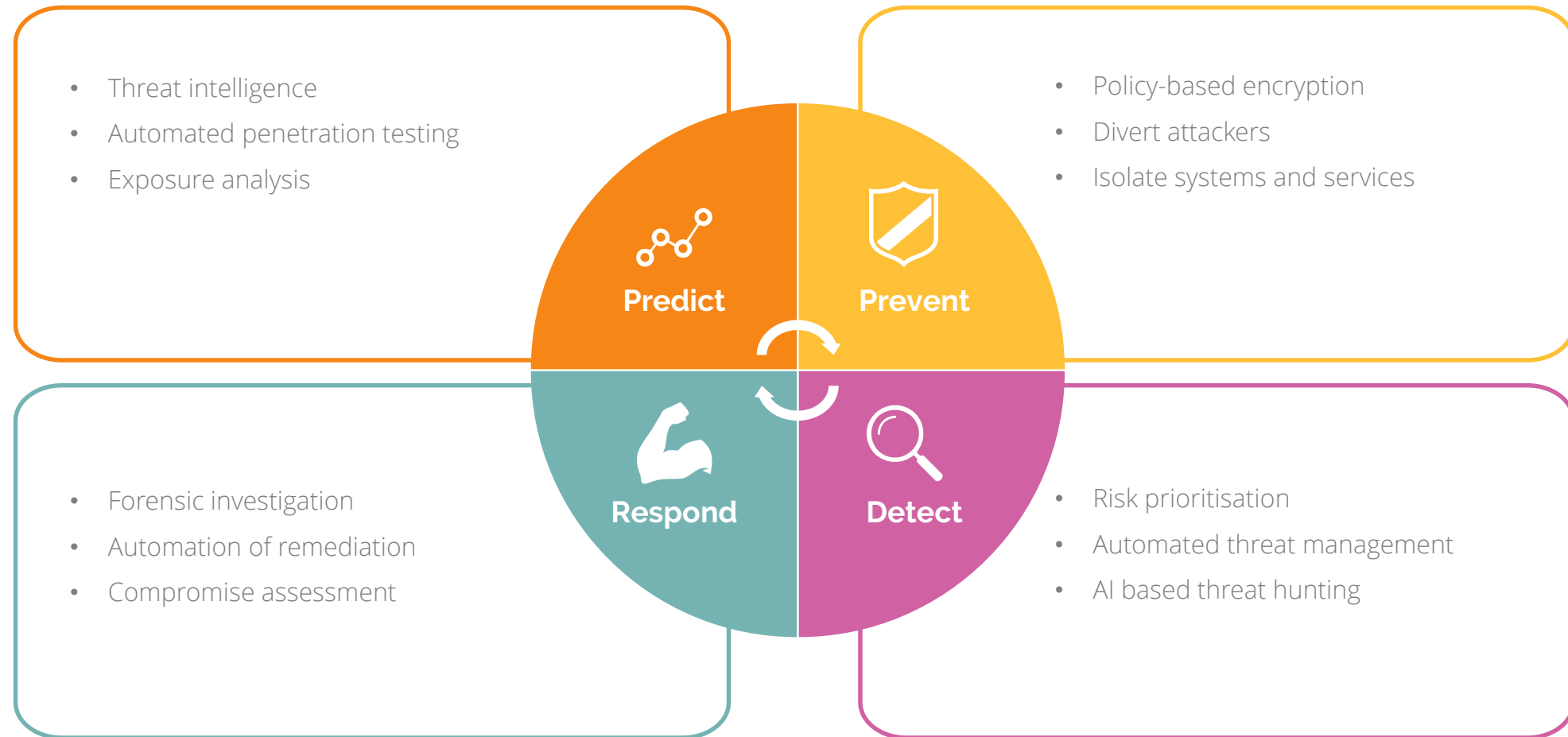
Cost

33% Of the Cyber Security workforce earn over £80,000 pa.

The European region faces a projected skills gap of **350,000** workers by 2022

A Holistic Approach

Creating **intelligent** solutions



Predict

Creating **intelligent** solutions



Predict the Hacker

Hackers are more sophisticated, Enterprises need to improve their Cyber security methodologies and think from the hacker's perspective



AI

Utilise machine learning and AI to continuously analyse weaknesses and identify where hackers may strike



Attack Vectors

A complete map of attack vectors will help you to understand the risks and will provide you with recommended remediation options



Threat Intelligence

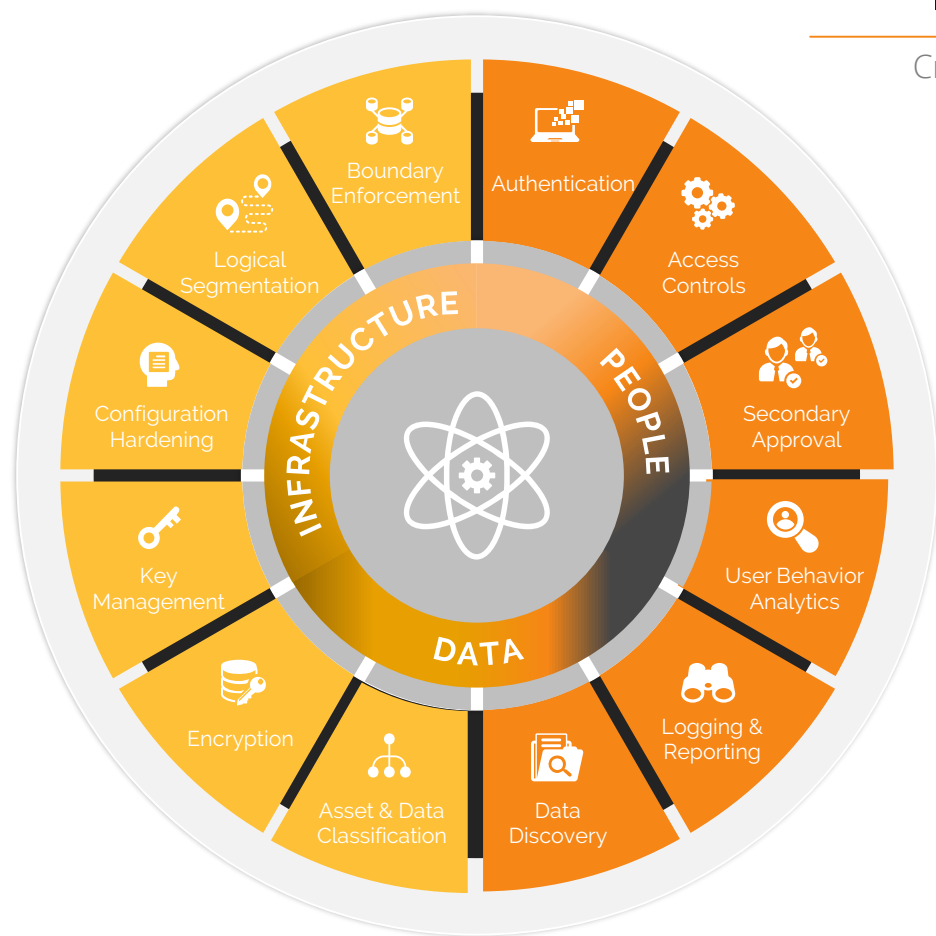
Utilise a global database of potential threats and rapidly test your exposure to new and modified threat profiles

“The biggest threat that most organizations are facing right now is a combination of **excessive access for their employees** and an increased focus by nation-states on **access to sensitive information**... From a corporate perspective, you're most focused on ensuring that you can protect the information you have.”

– Stephen Schmidt, CISO AWS

Prevent

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We can help lock down the cloud infrastructure: virtual servers, storage, network and Admins. Integrating 2 factor authentication, root password vaulting, deep role and object based access controls that are customisable. We also deploy a policy enforcement engine that prevents policy violations by admins and enforces good behavior. It eliminates breaches based on admin error, rogue admin behavior, and compromised admin credentials. We also harden the virtual environment by using templates to compare VM settings with frameworks like PCI, HIPAA, NIST 800-53

"...There is no one technology that's going to solve or protect you forever. You need a **good layered approach** [with] a **risk-based review** of what's going on inside your companies to figure out and identify what your **crown jewels** are and [how and when to restrict access to that] information."

– Scott Smith, Assistant Dir Cyber Division, FBI

Detect

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1st to Detect, 1st to Protect

Use Zero-hour detection solutions to identify attacks before they have an impact



Use AI

Eliminate human error and alert fatigue. Utilise AI based detection algorithms



Unusual not always bad

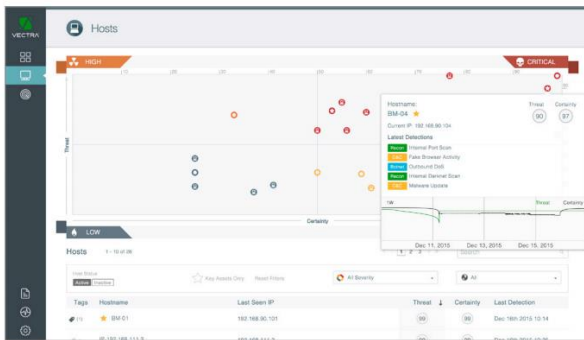
Identify the things that hackers **must** do, prevent the use of encryption as a hiding place

1 minute 40 seconds – median time until first malicious email in a phishing campaign is opened

Median Threat Detection Gap – **99 days**

Respond

Creating intelligent solutions



Pinpoint hosts at the centre of an attack and automatically track and score threats in context over the full duration of the attack.

Improve Response Plan

- Use AI to make recommendations
- Automated remediation
- Contain incidents
- Resolve issues that need intervention
- Forensic investigation of attack (use tools)
- Comply with Regulatory / Governance requirements

Gartner has been advising clients since 2013 that “Prevention is futile in 2020. Advanced targeted attacks make prevention-centric strategies obsolete.”



Get in Touch



The Old Timber Yard, Groombridge Lane,
Eridge Green, East Sussex, TN3 9LB



hello@carboncloud.co.uk



01892 337337