



Cyber Security Transformation and Optimisation

G-Cloud 13

April 2022

Our objective: ensure a safe digital transformation journey



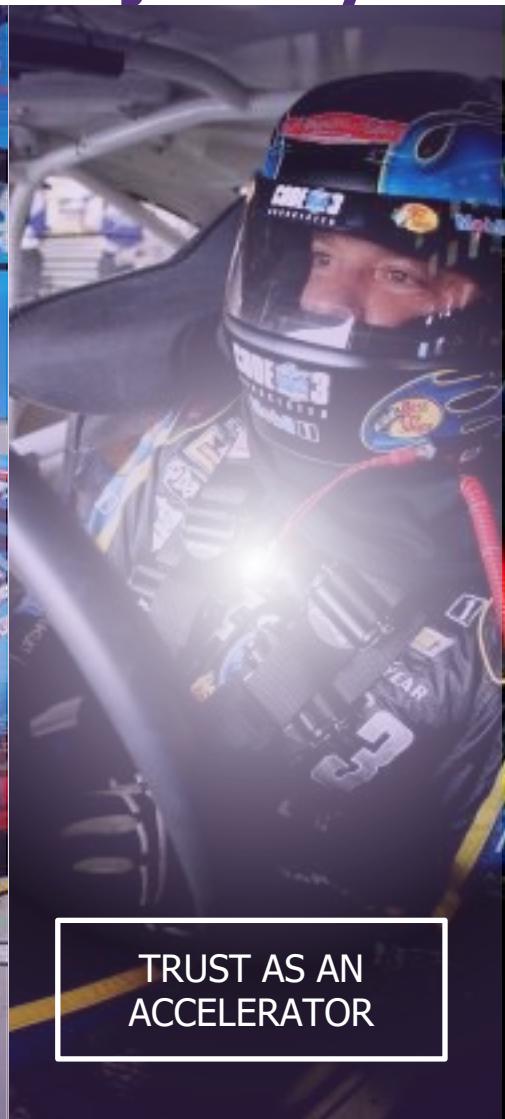
DIGITAL
RACE



THREATS



REGULATIONS



TRUST AS AN
ACCELERATOR

*In the light of constantly changing **cyber threats** and risks introduced as a result of **digital transformation**, we work with complex organisations to help them identify, protect, detect, respond and recover from cyber-related events.*

An independent leader in cybersecurity & resilience

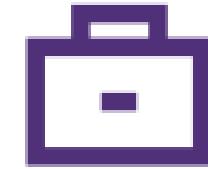
Building Digital Trust in your organisation is an **essential business enabler** for success in the race for digital transformation



700+
Consultants &
Experts



1,000+
clients in **20+**
countries



Our clients

ExCom, Business,
CDO, CIO, CISO, BCM

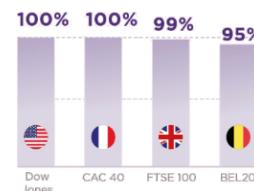


PROVEN EXPERTISE

- / Risk management and Compliance
- / Cloud & next-gen security
- / Program management and C-level
- / Digital Identity & eFraud
- / Ethical Hacking and Incident Response
- / Business Continuity and Cyber-Resilience



Sectorial
benchmarks



CyberLab



CISO & Start-ups radars



FORRESTER®
European Cyber Consulting Provider (MidSize)

Our latest topic of engagement with our clients

ASSURANCE

Build a **practical** framework and automate evidence collection



CLOUD

Fully **integrate Cloud assets in your security model**



CRISIS EXERCISES

Improve **board and business preparedness** with **realistic exercise**



SOC & FUSION CENTRE

Mature your Security Operations Centre (SOC) service toward integrated **Fusion Centre**



RESILIENCE

Reduce **business impact** when hit by operational threats with practical measures



IDENTITY & ACCESS MANAGEMENT

Leverage new solutions to enable **dynamic and transparent** security model (zero trust)



3rd PARTY SECURITY

Increase oversight and **on-going control** on your supply chain



Preparing for a cyber-crisis - Here is a challenge.

- 1 It is no surprise: companies are under pressure, cyber-attacks are growing harder and trickier (*ransomware, supply-chain... 60 attacks managed by Wavestone in 2020*)
- 2 Cyber-crisis governance is often set-up... but shortcomings appear on real crisis (*24/7, third-parties onboarding, logistics...*)
- 3 Cyber-crisis is a race against the clock – preparation is key, especially on investigation & defense (*have logs – lots of logs, DC rebuilding automation, business apps restarting priorities...*)
- 4 Most importantly: you better be working together (*partners, CxO, operations, communication, authorities...*)



Our Capabilities

Define your cyber-crisis governance

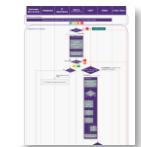
- / Adapt your current crisis organization to cybersecurity
- / Define major incidents playbooks (ransomware, leak...)
- / Onboard crisis stakeholders: training, tooling, templates...



Our Boosters



Cyber-crisis assessment Framework



Playbooks for major incidents



Off-the-shelf exercise scenarios & chronograms



Exercise assessment grids



CERT-W, with a 24/7 incident response service



Incident Response toolkit

Simulate attacks and test your response

- / Design relevant scenarios inspired by recent attacks
- / Create a storyboard and build realistic stimuli
- / Roll-out the exercise and identify lessons learnt

Help you deal with cyber-attacks

- / Technical expertise: forensics, malware analysis, Threat Hunting...
- / Help crisis directors handle with crisis management
- / Defense plan definition: AD recovery, security...

Third Party Security – An Overlooked High-Priority Threat

- 1 Many organisations are under-prepared to defend against growing threats from their supply chain (*SolarWinds, Accellion, etc.*)
- 2 Multiple Governments have highlighted supply chains as 'an area for urgent attention'. (*FCA/PRA stressed exit, EU DORA*)
What about fourth party threats?
- 3 Third Party management is often weighed down by manual and inefficient processes
(*High FTE count for limited added value*)
- 4 COVID has brought to light multiple failures in third party management and the need for tools/automation
(*ServiceNow, CyberVadis, RiskSense, etc.*)



Our Capabilities

Adopt a 'Know Your Supplier' approach

- / **Unify and integrate** processes with legal, procurement, finance etc.
- / **Extend** process to cover **pre-contract** light touch, up to **exit** strategy
- / Define **triage and assessment** framework based on sensitivity



Our Boosters



Vendor categorisation and sensitivity-based assessment approach

Lifecycle key steps and checklists



Market benchmark for automation of evaluation and governance



Toolchain end to end blueprint and integration points



MI & Dashboards



Off the shelves templates of questionnaires, contract clauses, IT integration scenarios. Etc.

Mature SOC capabilities enable organisations to effectively detect and respond to threats

- 1 Advanced organisations are bringing together security teams under the Cyber Fusion Centre (CFC) umbrella.
- 2 56%¹ of cyber leaders say that cyber security staff shortages are putting their organisations at risk.
- 3 Larger threat attack surface caused by the shift to remote working has attracted the attention of cyber criminals worldwide.
- 4 Existing SOC teams lack the expertise across People, Process, Service and Technology , required to successfully deliver transformation.



Our Capabilities

Establish your SOC maturity baseline

- / Demonstrate **why** change is needed; targeted investment
- / Use results as input to strategy, TOM and **business case**
- / Measure **current-state** and define **target-state** using SOC-CMM



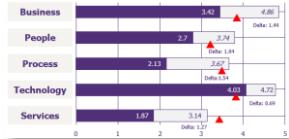
Our Boosters



Our digital facilitation tools ensure interactive workshops for geographically disparate teams



Our industry benchmark allows direct peer comparison



Our research & knowledge centre provides industry insights



Our templates and industry analysis accelerates the production of your strategy

Develop your strategy

- / Articulate **what** you need to achieve across **all domains**
- / Create a **workforce strategy**; right skills, right locations, MSSP vs in-house and Outline career paths to **retain knowledge**
- / Define your tooling strategy; SIEM, UEBA, SOAR

Our stakeholder-friendly content ensures your change is supported and adopted



Our collaborative and cross discipline approach gives your initiative the best chance of success

Define and implement your TOM

- / Specify **how** you are going to operate in order to realise your strategy and achieve business objectives
- / Exploit opportunities to **automate** common tasks
- / Preserve **compliance** with x-border data requirements



Identity & Access Management is front and centre of security and digital strategies

- 1 IAM is an asset for **Cybersecurity**: move from perimetric toward Zero Trust approach
(unique ID traceability, secure authentication, secure on any device)
- 2 IAM is a **Business Enabler**, bringing agility & shorter time-to-market, at scale
(efficient processes, consumed as a commodity, as a service (API))
- 3 IAM streamlines the **user experience**, delivering on user expectations of an effortless, simple UX, as at home
(easy onboarding, risk-based decisions to simplify, omni-channel)
- 4 63% of organisations **lack the holistic vision** to reap these benefits
(unbalanced investment in tech vs. people and processes, little end to end vision)



Our Capabilities

Positively transform your IAM estate

- / Migrate from **legacy IAM** platform and processes
- / Adapt **IAM to the Cloud** – secure **APIs**
- / **Consolidate** mixed environments (e.g. post-merger): TOM, Strategy, Architecture

Simplify compliance and access rights

- / **Overlay Id Analytics** on top of IAG to restore control over accesses
- / **Automate recertification** processes for compliance
- / Leverage tools to **identify roles** and create a RBAC model

Streamline user/customer experience with innovation

- / Deploy **state of the art authentication means** (password less, risk-based auth etc.)
- / Implement a single UX on all channels with **CIAM**



Our Boosters



IAM Maturity assessment Framework

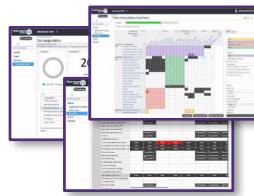
Vendor market vision



Migration scenarios, programme structure and governance...



Rights review methodology



Ready to use toolset to accelerate review and role building



Demo assets and environments to work with non-tech users



Something cool on CIAM

Cloud Security is a must for today's digital enterprises

- 1 Moving to the cloud should be seen as an opportunity to simplify and standardise security
(*service model, templates, automation...*)
- 2 Still... cyber attacks against misconfigured cloud services are on the rise and so are the fines for data breaches
(*Capital One, Docker Hub, Facebook...*)
- 3 Understanding the boundaries of the shared responsibility model with your providers is crucial – don't assume!
(*consider service type: IaaS, PaaS, SaaS...*)
- 4 And... monitoring in the cloud continues to be a key priority to detect attacks and manage vulnerabilities in your cloud estate
(*native capabilities, UEBA, SOAR...*)



Our Capabilities

Assess & secure your cloud services

- / Review the risk position of your cloud estate
- / Define strategy and deliver remediation programme
- / Define target operating model and repeatable controls
(*IAM, automated misconfiguration reviews, etc.*)

Transform cloud security capabilities

- / Secure AWS, Azure and GCP through service centres
- / Enhance cloud security monitoring and automate incident response
(*Sentinel, Unified Audit logs, MCAS, etc.*)
- / Manage secure cloud migration and adoption projects

Prepare for tomorrow's challenges

- / Leverage the cloud to enable a NextGen security model
(*IAM in the cloud, homomorphic encryption, innovation start-ups, etc.*)
- / Prepare for a "stressed" exit from your cloud providers
(*exit plans, containerisation, etc.*)



Our Boosters

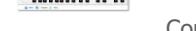


Wavestone's cloud security assessment framework

Cloud controls matrix based on CSA



Integration blueprints with native cloud provider capabilities



Configuration & hardening guidelines for major providers



Airline model

Security solution benchmarks



Operational Resilience is becoming a top priority in the UK



Traditional business continuity and crisis management measures cannot cope with major disruptions
(*OVH, Sodinokibi, COVID-19*)



Regulators worldwide, with the UK as a leader, are setting new requirements that can be seen as great opportunity
(*FCA, PRA, DORA*)



Companies are setting up operational resilience programmes with high budgets
(£500k -£1m one-off costs, 3-4% of IT budget for remediation)



To achieve true operational resilience, companies must change their mindset
(*SMF accountability, silo-breaking, training and awareness*)



Our Capabilities

Run an Operational Resilience Programme

- / Structure an Operational Resilience target
- / Identify Important Business Services and impact tolerance
- / Map the IBS value chain and underlying assets



Our Boosters



FCA/PRA Maturity assessment and compliance framework



IBS identification, impact tolerance and mapping methodology



List of top core resilience capabilities to be deployed



Testing plan methodology



Tooling Radar



MI & Dashboards

Challenge existing capabilities

- / Qualify threats and scenarios
- / Understand existing resilience capabilities and controls
- / Test resilience, identify gaps and mitigate risks

Accelerate transition to *Business as usual*

- / Define governance to maintain Operational Resilience
- / Produce high-quality MI dashboards to monitor resilience
- / Set up tooling to increase efficiency and accuracy

Security Assurance is the keystone of any cybersecurity function

- 1 With more and more threats, regulations, innovation... companies rethink their cybersecurity strategy (*ransomware, FCA/PRA, cloud*)
- 2 Companies shift from a unique strategy to risk-based strategies for their different business entities, leveraging security frameworks (*NIST, CIS20, ISO27001*)
- 3 Transformation is done through a reorganisation of the cybersecurity function and the delivery of large programmes, with high investments (*up to £100-150m/year and 1 security FTE/200 employees for Financial Services*)
- 4 4 types of projects stand out: security foundations, protection of sensitive environments, zero-trust convergence, and cyber-resilience (*patching, AD security, IAM, BCP/DRP*)



Our Capabilities

Define your cybersecurity strategy

- / Conduct a cyber benchmark to compare against peers
- / Define a cybersecurity assurance framework and agree on a target profile to be reached
- / Devise a cybersecurity strategy and associated roadmap

Build and assure your cyber programme

- / Define project scoping, as well as programme assurance approach and toolkit
- / Manage or assure a cybersecurity programme
- / Produce MI dashboards to report to C-level

Reorganise your cybersecurity function

- / Define a new Target Operating Model (TOM), considering offshore and cost optimisation strategies
- / Coach cybersecurity stakeholders
- / Outline job profiles and career paths



Our Boosters



Wavestone cyber-benchmark tool
(already used for ~50 companies)



Wavestone CISO Radar on CISO priorities for 2021



Programme Assurance toolkit
(planning, budget, progress, risk, etc.)



C-level MI dashboard templates
(risk coverage, protection against major attacks, etc.)

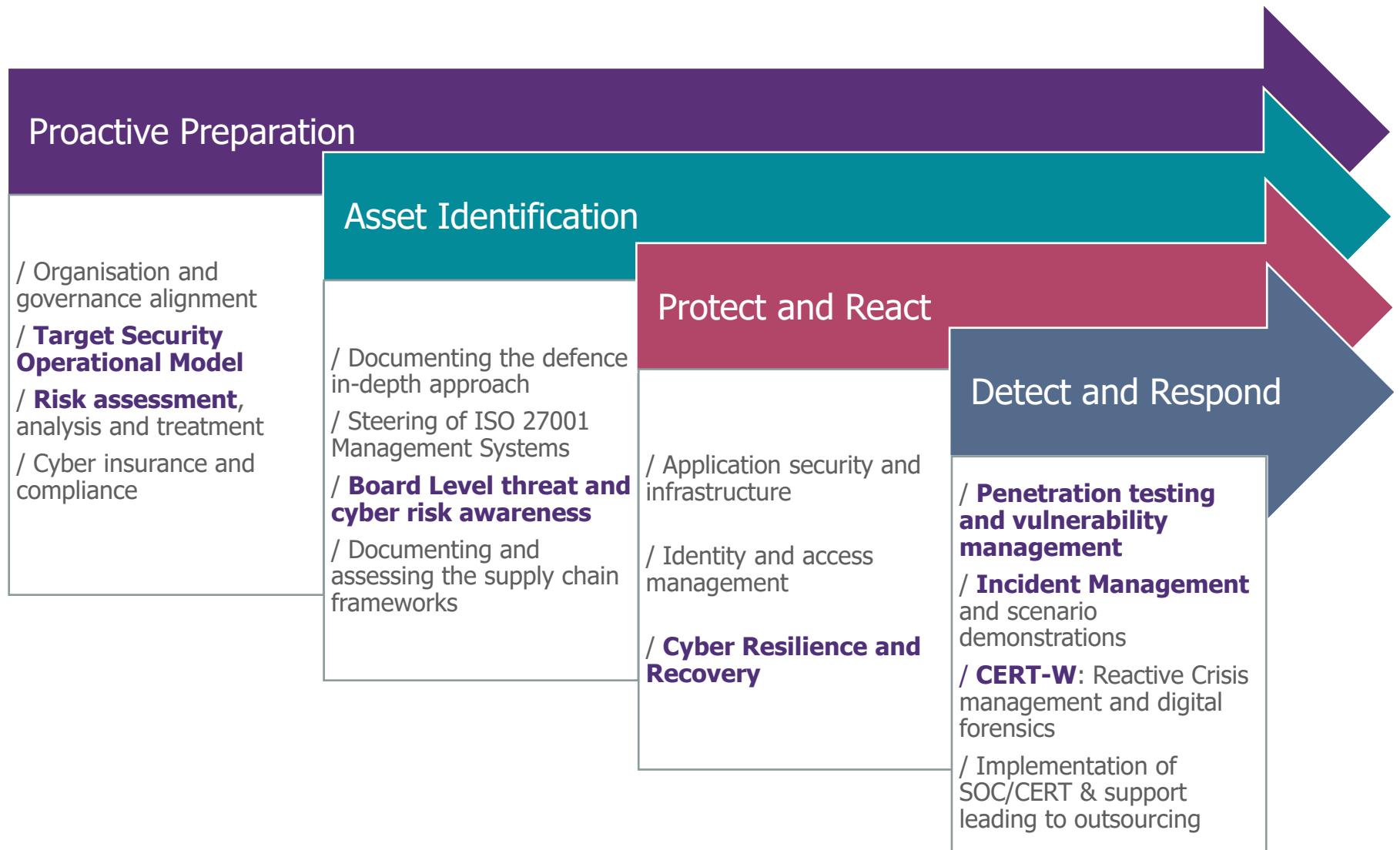


Budget and TOM benchmark

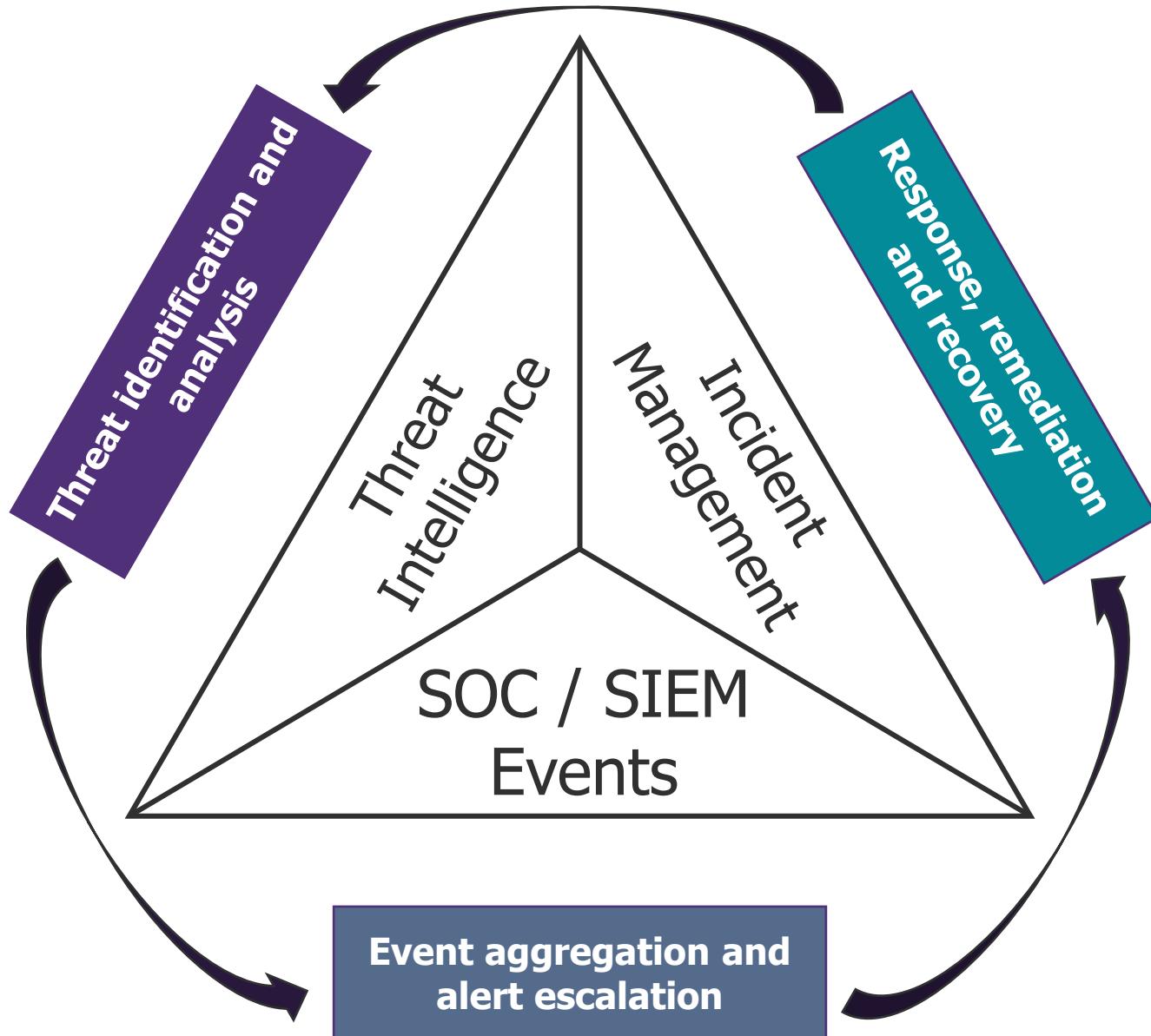


Cybersecurity job market benchmark

Our approach to Cyber Security Transformation and Optimisation



Proactive Cyber Security & Risk Mitigation



Wavestone brings a strong field experience on cybersecurity and resilience

RESILIENCE



Financial Regulator
(confidential)

Increase of resilience to “cyber-catastrophes” through vital business outcomes identification, provision of recovery capabilities and stress-testing

SOC & FUSION CENTRE



Investment bank
(confidential)

Full Cyber Programme

- SOAR
- Threat detection
- EDR
- Threat intelligence
- Forensics
- Incident management

Latest publications

- / Organizing a cyber crisis exercise is not an easy task
- / Benchmark Incident Response 2020
- / Enhancing cyber-resilience and building a testing strategy

IDENTITY ACCESS MANAGEMENT



Public Broadcasting Group
(confidential)

Identity Data Governance

- 35,000 users, extremely volatile population and strong business
- Streamlining of numerous Identity data sources and data quality control through an Identity Analytics approach, fine grain request provisioning w/ MDM source

3rd PARTY SECURITY



Manufacturing group
(confidential)

CYBERSECURITY CLAUSES, PAQS AND PRIVACY COMPLIANCE

- Review and Position Analysis Questionnaires of policy, methodology and contracts, including data security measure.

CRISIS EXERCISES



Government Regulator
(confidential)

- Global financial crisis scenario caused by a major cyber attack
- 24 Financial Authorities involved
- 3 continuous days of exercise
- 1.000+ people involved
- 16 months to prepare the exercise

ASSURANCE



Investment Bank
(confidential)

- Cybersecurity Programme Direction (3-year project, 8 FTEs involved)
- Assurance / Maturity assessment against Cyber Criminality

- / Cyber Crisis: how to handle communication
- / Choose the right tooling for your crisis management
- / Deep-dive into a real cyber-attack, field experience



Read more on wavestone.com/insights

Appendix

Stimulated by solving challenges and driven to succeed



Transformation



Positive Way

A unique ability to combine in-depth industry expertise, business functions know-how and technology mastering



Wavestone, a fast-growing company

15 offices
in 9 countries



Pure-play
consultancy



€470m



3,500+
employees





Wavestone supports leading organisations shape and deliver their most critical transformations

In the UK we are the “go to” organisation for our senior executive clients for technology advisory. Our client focused approach allows us to bring deep business and technology expertise to add value to an organisation’s agenda

Cybersecurity

**Technology
Advisory**

**Operational
Resilience**

**100+ UK Employees
and growing**

**Deep subject matter capability
and practical experience**

**Independent and
impartial advice**

Underpinned by our Attitude | Approach | Adaptability

Multidisciplinary approach

Collaborative consulting style

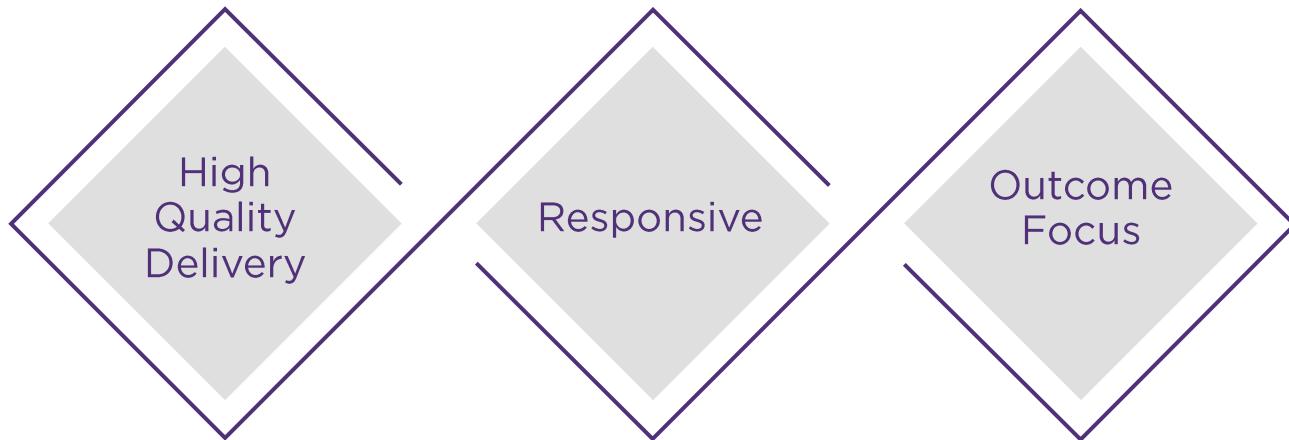
A photograph of a diverse group of people, including men and women of various ethnicities, wearing hard hats with labels like "Thinker" and "Leader" on them. They are seated around a table in a meeting room, engaged in a discussion. The background is slightly blurred, showing a city skyline through a window.

**Blend different
skillsets
from breadth of
expertise**

**One Global company,
flat structure,
no silos**

**Account
Manager as
single point
of contact**

How our culture drives the best outcomes for our clients



Attitude



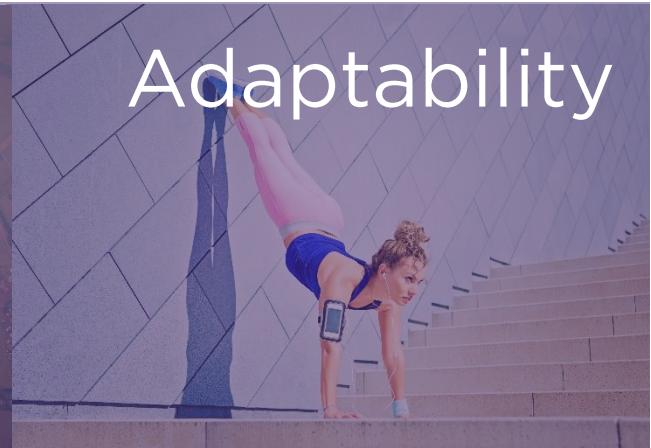
Based on **teamwork** and **enthusiasm**, which drives the mentality to succeed with our clients

Approach



Transparency drives **honesty** and **intimacy** to create an environment of trust. Leave a legacy.

Adaptability



Always bring the best capabilities, with **flexibility** to change, delivered from a single point of contact

Here's what our clients say....

I find there is masses of energy and enthusiasm and work alongside us effortlessly... through our partnership and honesty, we ended up in a position where we got the outcome we all wanted.



COO | Global Investment Bank

Wavestone provided programme management expertise at a very critical and sensitive time in the project. Your team was always at our side even through the toughest of times. Our engagement always felt like a deep partnership.



US COO | Global Bank

It has been a pleasure with working Wavestone. You have brought some much needed expertise and thinking to the work we have undertaken and I appreciate both the professionalism and collaborative nature.



Head of Department |UK Regulator

Here's some of our recent work

Investment Bank

/

A Cloud Security review to recommend a unified cloud solutions in a secure way, with cost-effective approach



UK Government Entity

/

Established an effective go-to-market strategy for the future procurement of WAN services, with advisory on improving performance and reducing circuit costs



UK Regulator

/

Review of cyber recovery capability to ensure preparedness for recovery from a Cyber-Attack



Large Government Department

/

Technical Debt discovery exercise to help provide centralised view of IT Estate

The Positive Way

WAVESTONE

Mike Newlove
Partner



Jim Hennigan
Partner



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