

A composite image of a city skyline at sunset, featuring the Petronas Towers in Kuala Lumpur. The image is overlaid with a digital network pattern of glowing yellow nodes and lines, and a large, semi-transparent purple triangle on the right side.

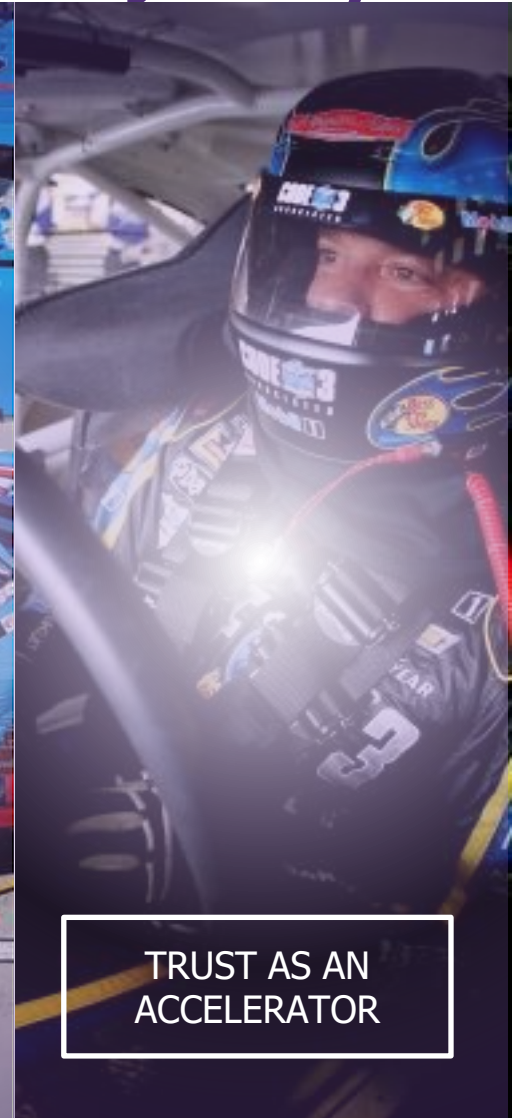
WAVESTONE

Cyber Security Transformation and Optimisation

G-Cloud 13

April 2022

Our objective: ensure a safe digital transformation journey



*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

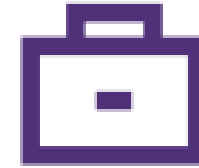
Building Digital Trust in your organisation is an **essential business enabler** for success in the race for **digital transformation**



700+
Consultants &
Experts



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



Our clients
ExCom, Business,
CDO, CIO, CISO, BCM



PROVEN EXPERTISE

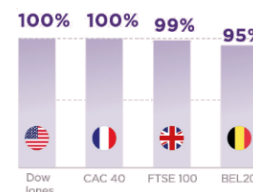
- / Risk management and Compliance
- / Cloud & next-gen security
- / Program management and C-level
- / Digital Identity & eFraud
- / Ethical Hacking and Incident Response
- / Business Continuity and Cyber-Resilience

FORRESTER®

European Cyber Consulting Provider (MidSize)



**Sectorial
benchmarks**



CyberLab



CISO & Start-ups radars



Our latest topic of engagement with our clients



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...

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...

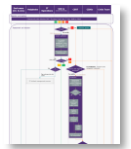


Our Boosters



Cyber-crisis assessment Framework

Playbooks for major incidents



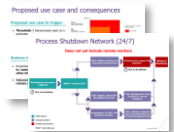
Off-the-shelf exercise scenarios & chronograms

Exercise assessment grids



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

Incident Response toolkit



Third Party Security – An Overlooked High-Priority Threat



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

Automate

- / **Automate the evaluation** (ratings/questionnaires)
- / **Automate governance**, and integrate evaluation with orchestration
- / Design and produce **MI/Dashboard**

Make it happen

- / **Set up and steer a change programme** based on the above
- / Deploy a **task force to remediate** a backlog of under-assessed or 'risky' suppliers



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



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

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

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

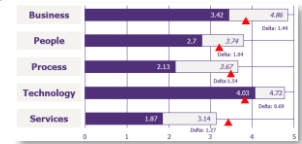


Our Boosters



Our digital facilitation tools ensure interactive workshops for geographically disparate teams

Our industry benchmark allows direct peer comparison

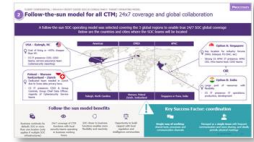


Our research & knowledge centre provides industry insights

Our templates and industry analysis accelerates the production of your strategy



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

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

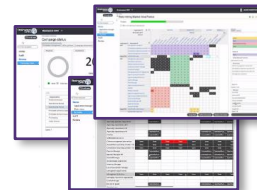


Migration scenarios, programme structure and governance...



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



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



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

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



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



1

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

2

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

3

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

4

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

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



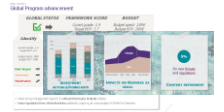
Wavestone cyber-benchmark tool
(*already used for ~50 companies*)

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.*)

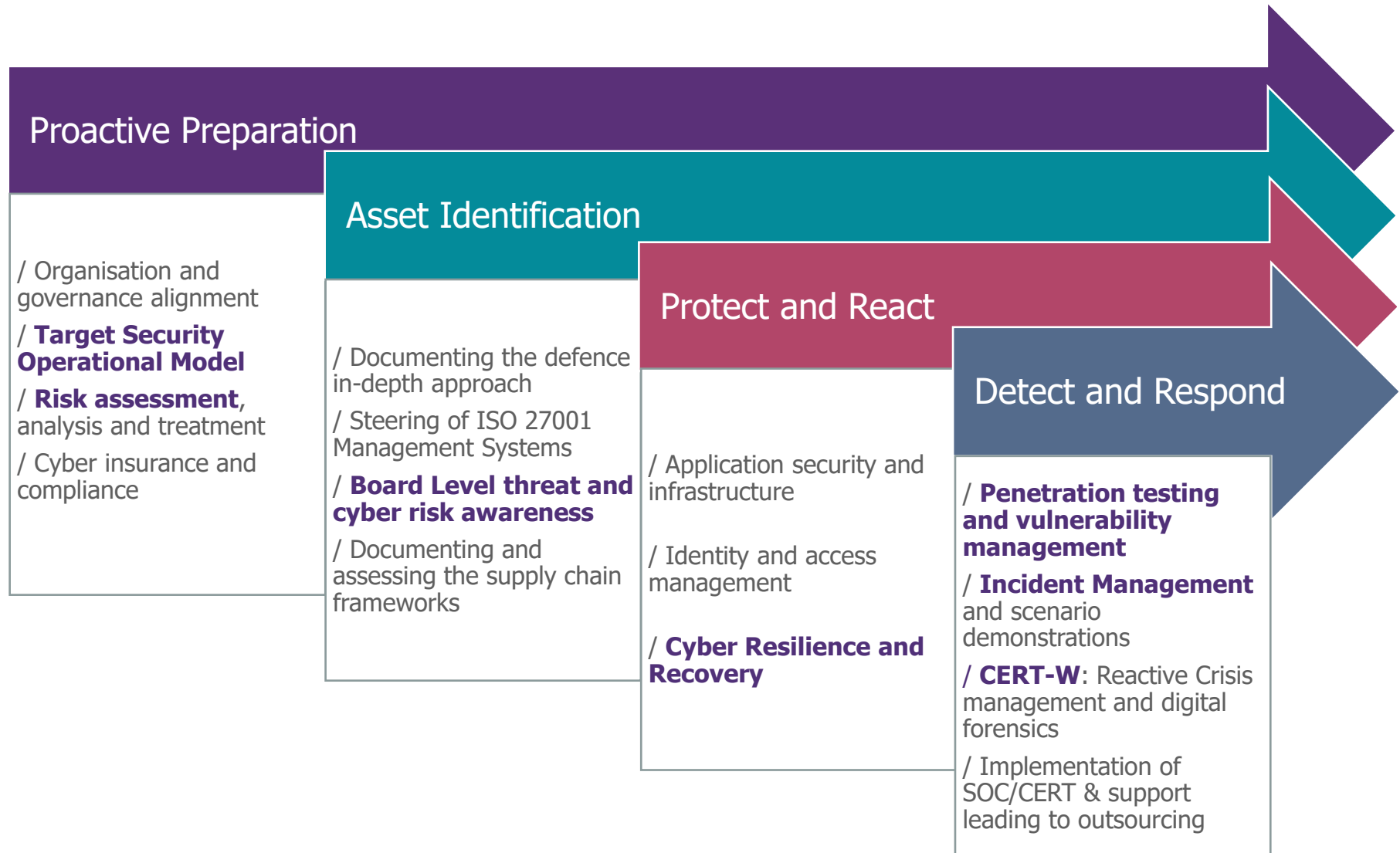


Budget and TOM benchmark

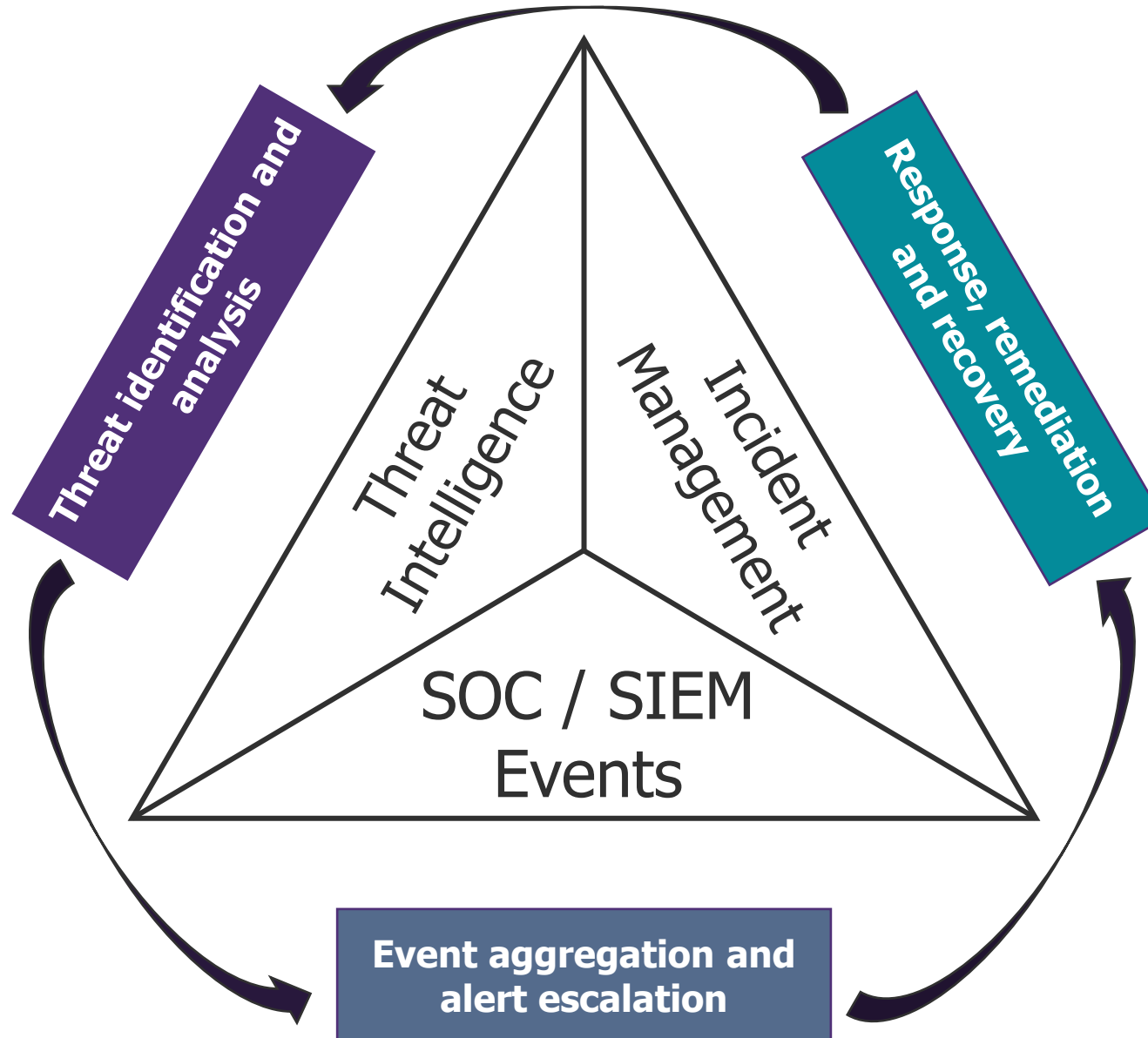
Cybersecurity job market benchmark



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

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.

SOC & FUSION CENTRE

Investment bank
(confidential)



Full Cyber Programme

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

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

Latest
publications

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

- / 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](https://www.wavestone.com/insights)



Appendix

Stimulated by solving challenges and driven to succeed



Business
&
Technologies



Transformation



Positive Way

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

BUSINESS FUNCTIONS

Strategy

Innovation management
& funding

Marketing, sales &
customer experience

People & change

Finance, risk &
procurement

Operations & supply
chain

INDUSTRIES

Financial services

Telecom, media &
entertainment

Consumer goods & retail

Manufacturing

Energies & utilities

Transportation & travel

Real estate

Public sector &
international institutions

TECHNOLOGY

Digital & IS strategy

Digital & emerging
technologies

IT & data architecture

Cybersecurity & digital
trust

Wavestone, a fast-growing company



Pure-play
consultancy



€470m



15 offices
in 9 countries



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

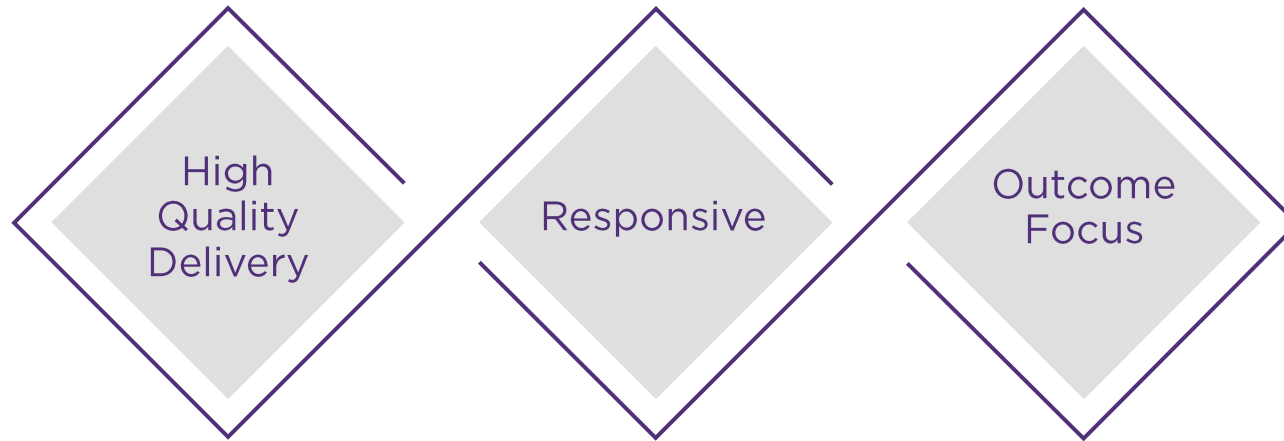
Collaborative consulting style

**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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