



Cloud Sustainability Impact Assessment

G-Cloud 13

April 2022

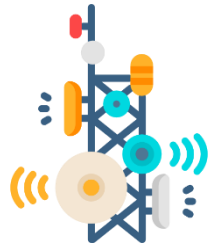
Digital world is usually broken down into three categories:



Data Centres
~67 million units



Servers
~67 million
(x2 since 2010)



Telecommunications equipment:
~1.3 billion units



Broadband
network devices
~1.1 billion



Mobile base
stations
~10 million



LAN / WAN
devices
~200 million

~2 billion items transported per year (x8 since 2010)



User devices:
~34 billion units and ~4.1 billion users



Smartphones
~3.5 billion



Display devices
~3.1 billion



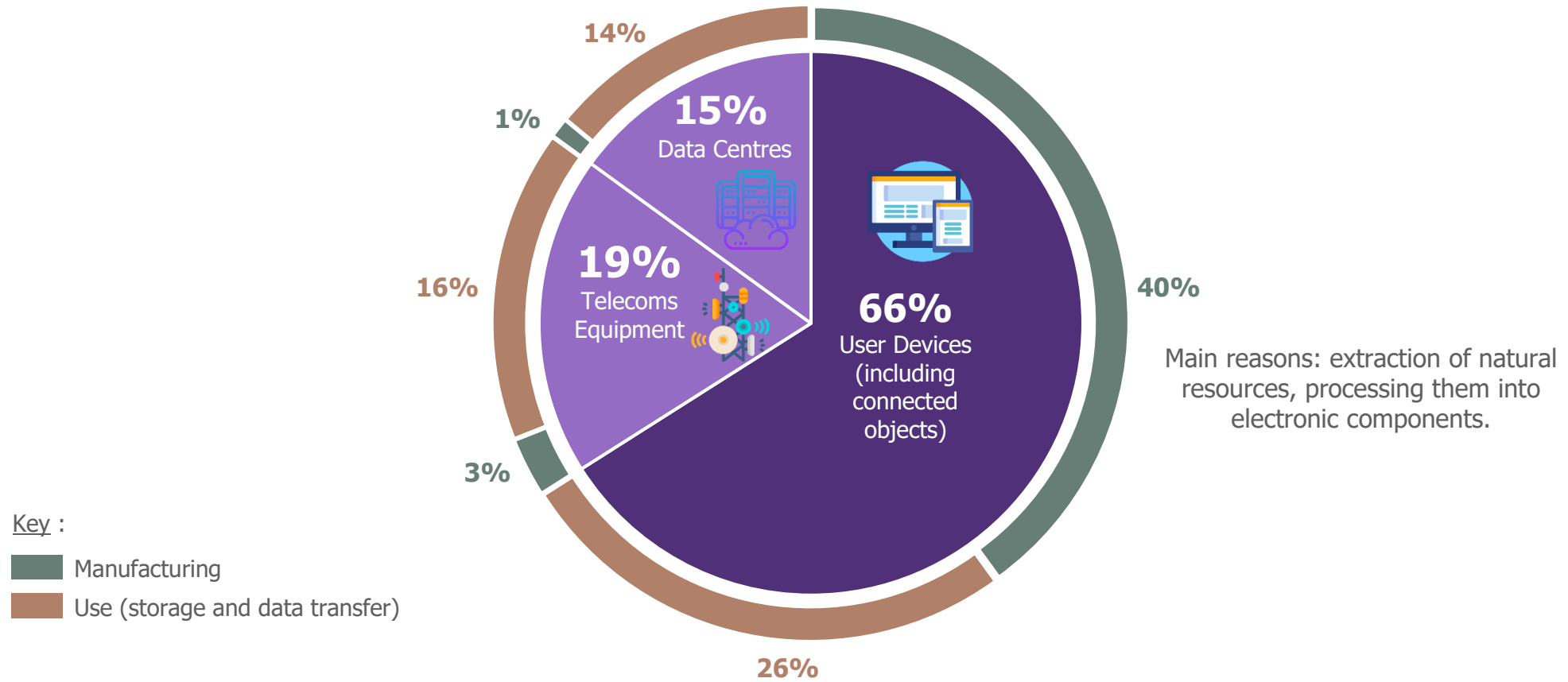
Other phones
~3.8 billion



Connected objects
~19 billion

Digital technology emits ~1.5 billion tonnes of greenhouse gases (GHG). That's ~3.8% of global greenhouse gas emissions. This figure is growing by ~8%/year (i.e. doubling in 10 years).

Manufacturing of user devices produces the biggest volume of greenhouse gas emissions



Actions can be taken to address these issues:

- Manufacturing: Make equipment last longer and reduce the number of devices
- Usage: Limit the proliferation of stored and transferred data (including: videos)

Digital sustainability and responsibility is a key issue for Wavestone and our clients



The digital sector is responsible for **4% of global greenhouse gas emissions**, growing at a **rate of +8% per year** (faster than any other sector).

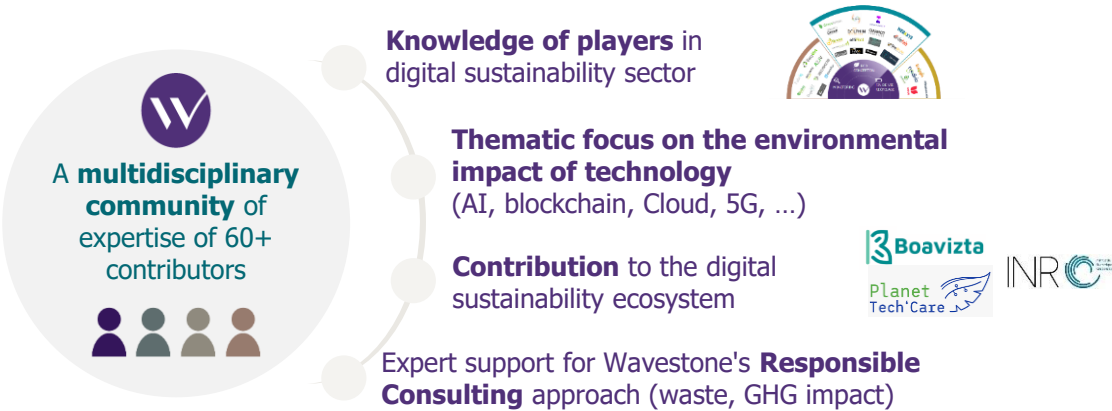
Discussions are intensifying among the players in the digital ecosystem in order to propose a **more sober, inclusive and ethical digital environment**.

Wavestone has **proven expertise** in assisting organizations with their digital sustainability issues, and **proactively promotes** DS issues as part of its **Responsible Consulting** approach.

There are multiple drivers behind DS projects

Social and environmental commitments	Digital performance	Recruitment and retention	Simplicity of use
Image	Anticipation of regulatory changes	Risk management	Streamlining

We have a community of expertise on digital sobriety and responsibility, called Sustainable Tech



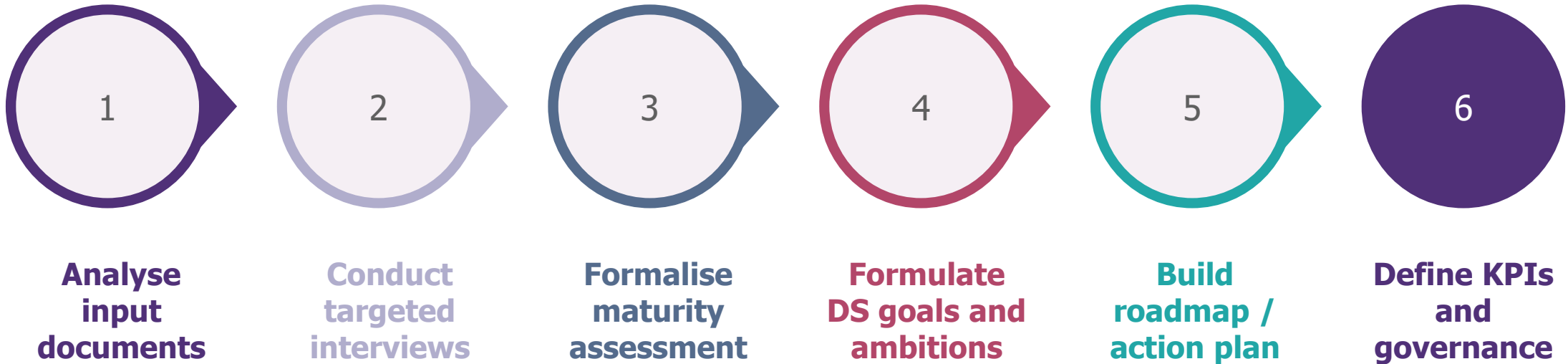
Key Services provided :

- Digital Sustainability maturity assessment & roadmap definition** (via a tested grid with over 20 criteria and 100 questions)
- Carbon footprint measurement (GHG) of your IT** (transparency on data collection and calculation tool) **and construction of the reduction trajectory**
- Incorporation of Digital Sustainability in procurement** (RFP, sourcing policy...) **and lifecycle management** (eq. setting up a recycling channel)
- Digital Sustainability roadmap implementation support** (support of all or part of Digital Sustainability roadmap workstreams)
- Incorporation of responsible design in projects / programmes** (integration of eco-design good practises, accessibility, tools...)
- Awareness of Digital Sustainability issues** (climate mural, digital mural, quiz, personalized format, challenges, Powerapps application...)

How do we help our clients assess the maturity of their approach to digital sustainability?

Objectives

- / Understand current practices in terms of digital sustainability and the initiatives already implemented
- / Determine where an organization is on their **Digital Sustainability journey** and its positioning in relation to market's best practices
- / Establish organization's digital sustainability ambitions and key focus areas

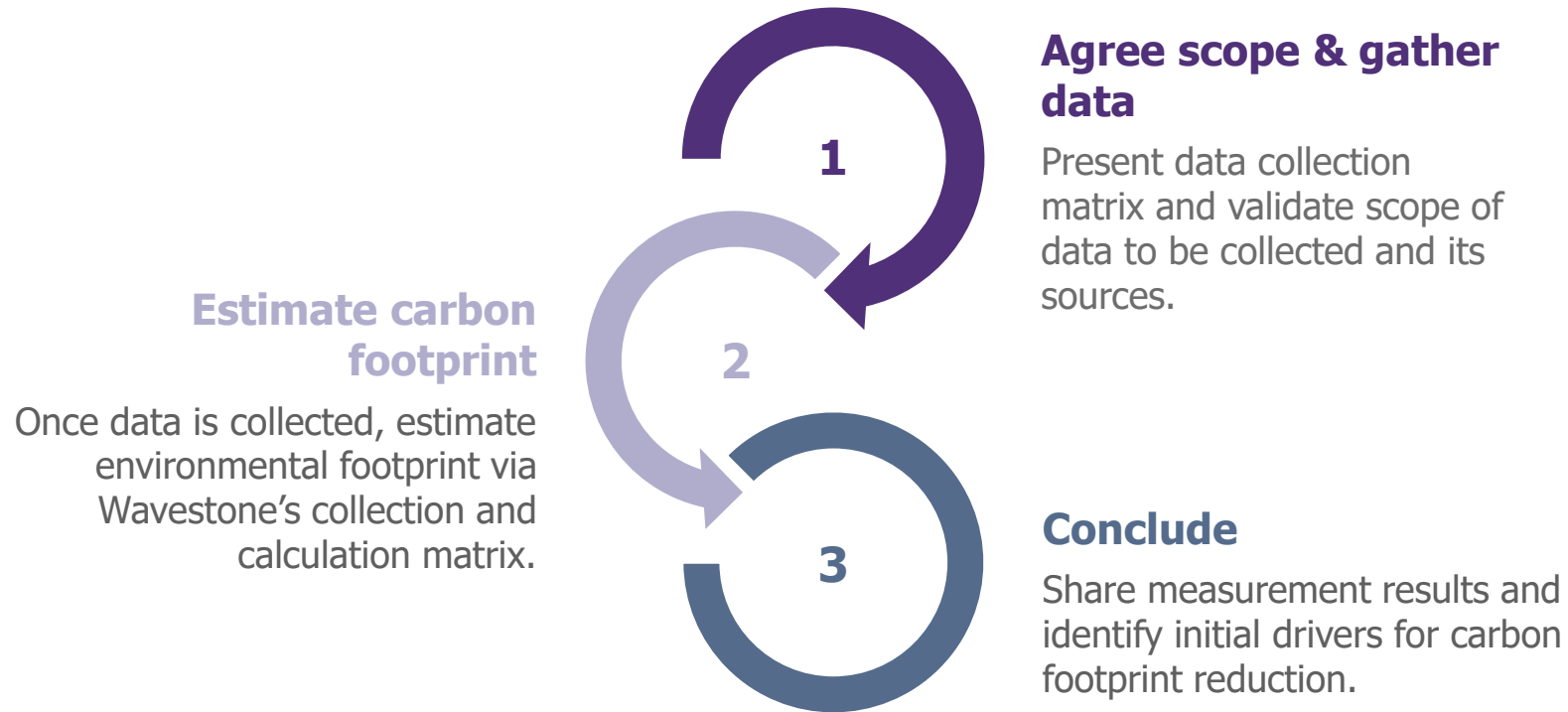


Wavestone has created several maturity grid with more than 100 questions that allow us to evaluate the level of maturity of an organization across over 20 criteria. Answers to these questions are used to then build a roadmap.

Understanding the main components of your carbon footprint enables you to build a reduction action plan

Objectives

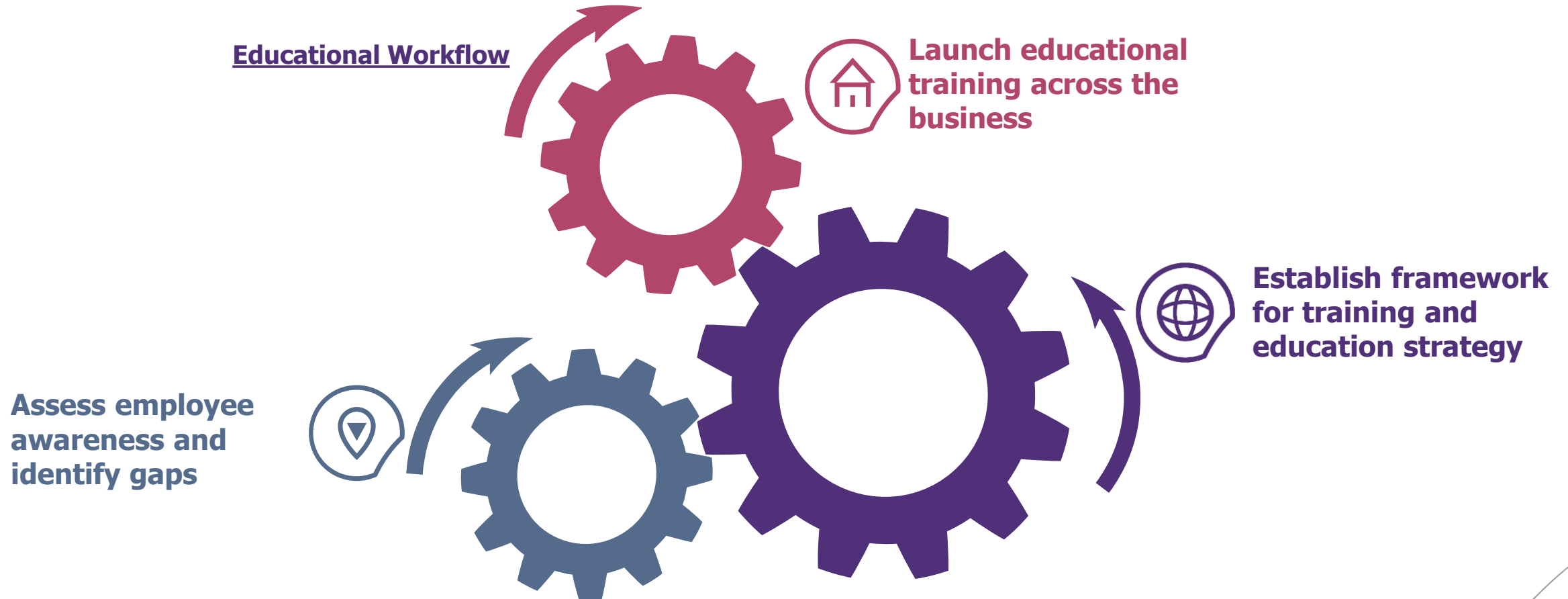
- / Provide a (non-exhaustive) macro estimate of the **carbon footprint of IT**
- / Identify items that have highest impact on carbon emissions
- / Identify first **emission reduction drivers** (which can feed into overall Digital Sustainability roadmap)



Education is a core component of digital sustainability, and as such employee awareness of these issues is important to develop through training sessions.

Objectives

- / Identify an organisations current level of digital sustainability awareness.
- / Increase understanding of digital sustainability across the organisations employees.





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

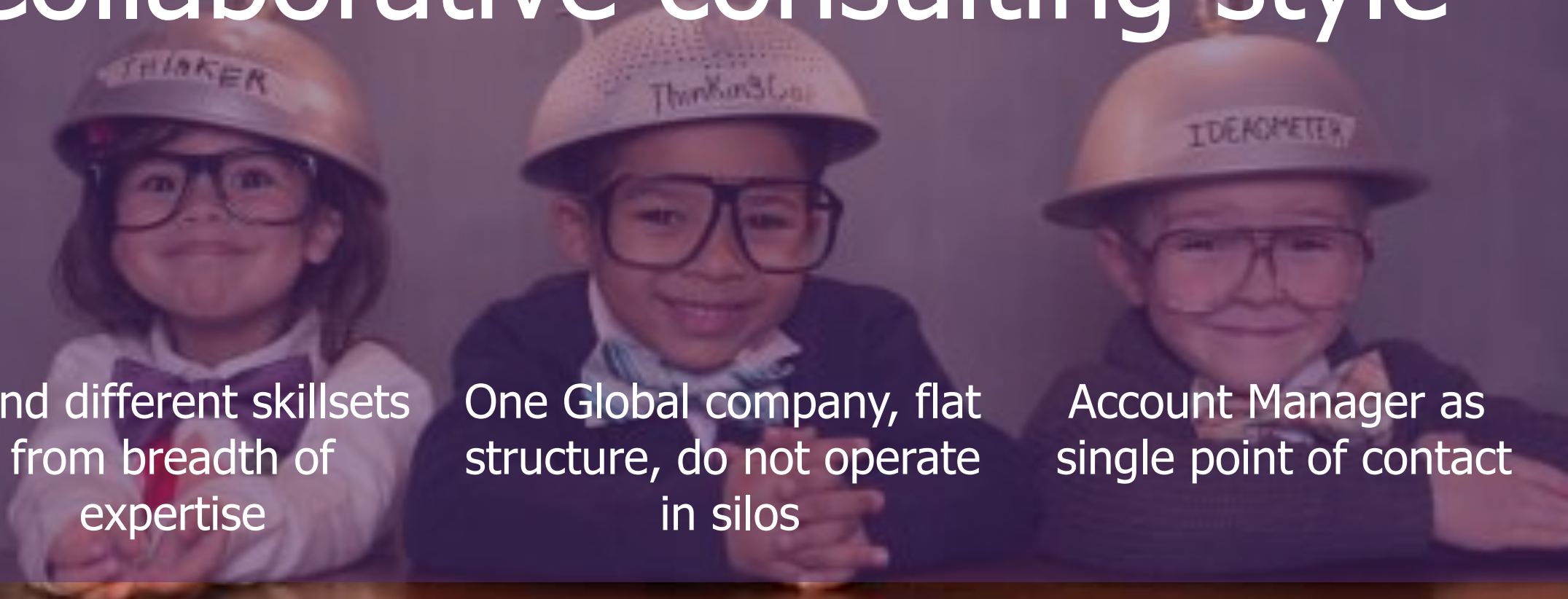
15 offices
in 9 countries



3,500+
employees

Multidisciplinary approach

Collaborative consulting style

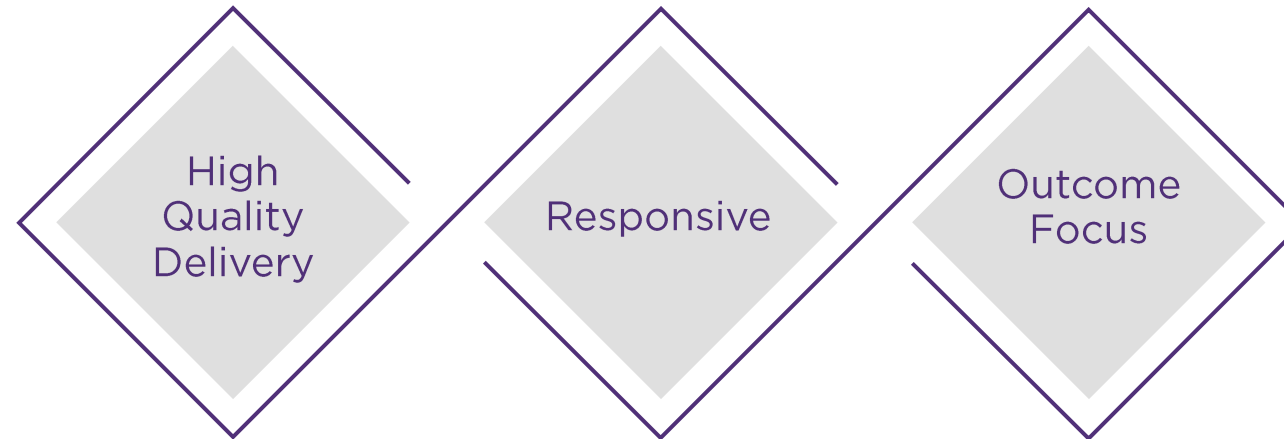
Three children are shown from the chest up, wearing white hard hats and large black-rimmed glasses. The child on the left is a girl with dark hair, wearing a white shirt and a dark bow tie. The child in the middle is a boy with dark hair, wearing a dark sweater over a light blue collared shirt. The child on the right is a boy with light hair, wearing a dark sweater over a light blue collared shirt. Each child has a label on their hard hat: 'THINKER' on the left, 'Thinker360' in the middle, and 'IDEAMETER' on the right. They are all smiling and looking towards the camera.

Blend different skillsets
from breadth of
expertise

One Global company, flat
structure, do not operate
in silos

Account Manager as
single point of contact

How our culture drives the best outcomes for our clients



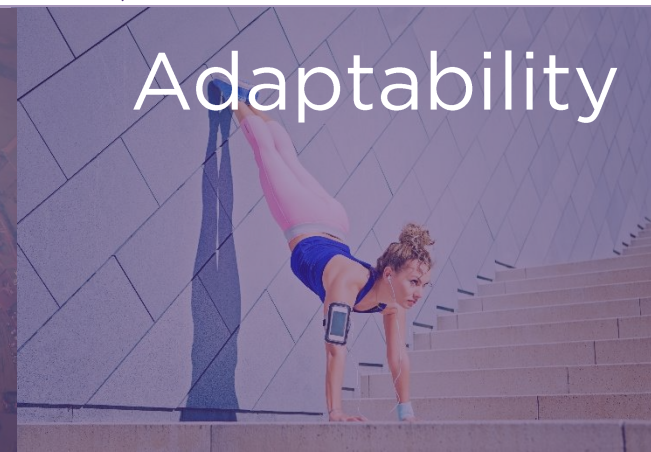
Attitude

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

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Partner



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