



Cyber threats and market posture

ACSEL

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Alert-Ransomware Cyber Attacks on ATM

May 16, 2017 3:14 Pm

Briton admits to cyber-attack on Deutsche Telekom

Liberian telecoms company commissioned attack but had not asked for German firm to be hacked, 29-year-old tells Cologne court

Yahoo Hacked Once Again! Quietly Warns Affected Users About New Attack

Wednesday, February 15, 2017 Mohit Kumar

Cyber Attacks: Emerging Threats to the 21st Century Critical Information Infrastructures

Cezar VASILESCU

Carbanak: How Would You Have Stopped a \$1 Billion APT Attack?

February 23, 2015 | By Limor Kessem

TECH CYBERSECURITY

A new ransomware attack is infecting airlines, banks, and utilities across Europe

by Russell Brandom | @russellbrandom | Jun 27, 2017, 10:01am EDT

Russian banks hit by cyber-attack

10 November 2016 | Technology

f t w e Share

European political parties left open to email-based cyber attacks



By Ian Barker

Published 4 months ago

Follow @IanDBarker

An increasingly visible
THREAT

4 main MOTIVATIONS

IDEOLOGY

- Denial of service
- Ideological messages
- Information disclosure
- Identity theft

FINANCIAL GAINS

- Personal and financial data theft
- Theft of industrial secrets or strategic data
- Fraudulent transactions
- Ransom

DESTABILIZATION

- Logical and/or physical destruction
- Strategic data theft
- Data disclosure

OBTAIN ATTACK CAPABILITIES

- Trusted sites / software trapping
- Network eavesdropping
- Security mechanism bypassing



All linked together due to the conflict in Ukraine

Ransomware is the #1 threat

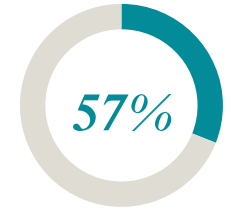
Key figures of cyberattacks as seen by Wavestone incident response team (CERT-W)



Attacks succeed **very quickly and broadly**

25d

Average delay from intrusion to encryption for ransomware attack



Of attacks are opportunistic



A **lack of preparation** in organizations

52d

On average to detect an attack



Of attacks are reported by a third-party



Very **heterogeneous consequences**

2 weeks

Of average crisis length with huge business impacts

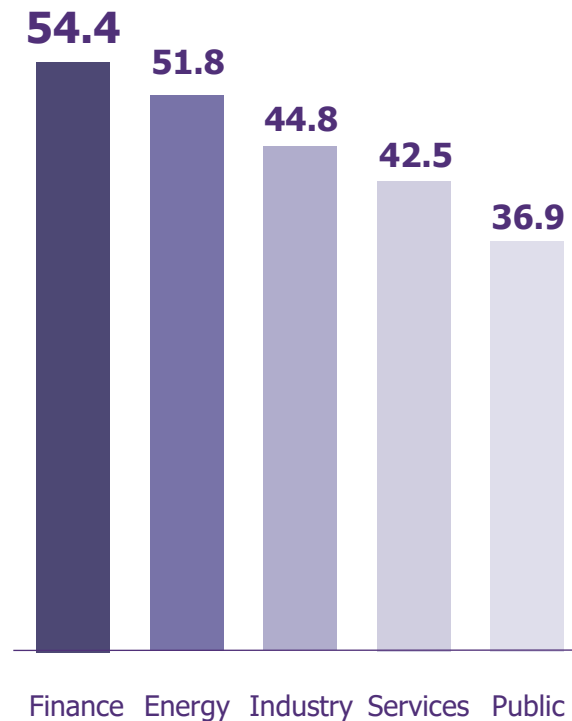
200 people

Maximum number of people managing a cyber crisis last year

Wavestone Cyber-Benchmark: global overview of 75+ companies among the largest tier 1 companies



Average is barely reached



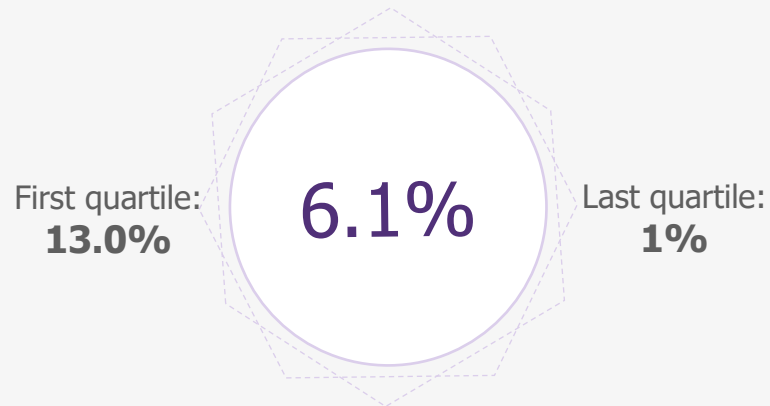
Wide differences between sectors



Regulation have a positive impact

Companies spend **an average of 6.1%** of their **overall IT budget on cybersecurity**

Average IT budget percentage dedicated to cybersecurity*

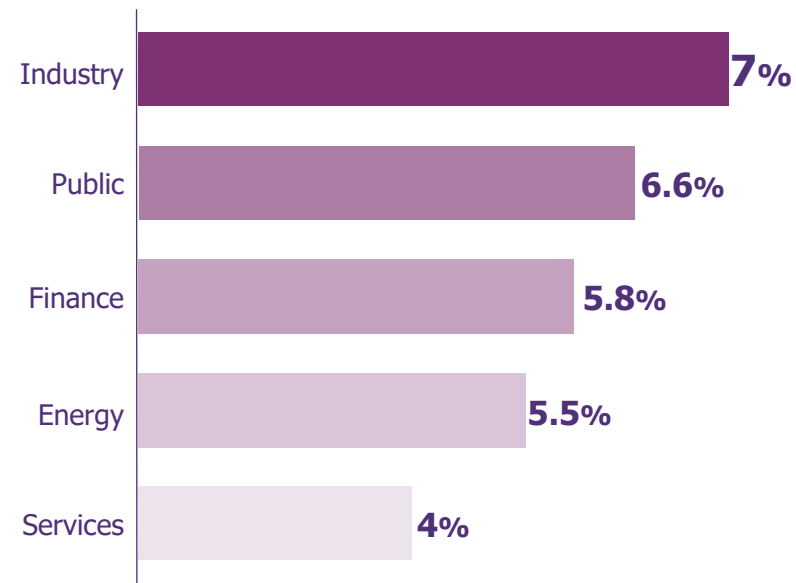


Major cybersecurity programs Total 3-years investments

Financial services
100 – 800 M€

Industries
15 – 80 M€

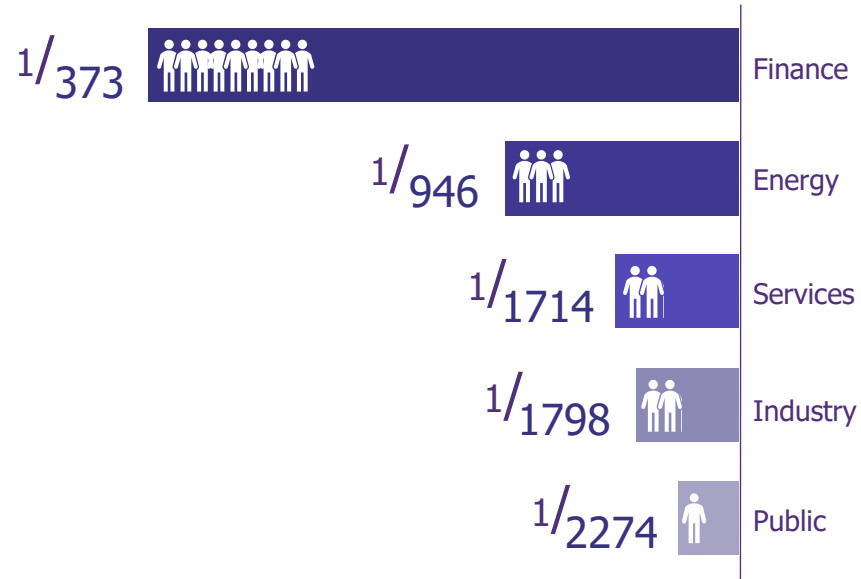
Today, less mature sectors are mainly the ones investing most



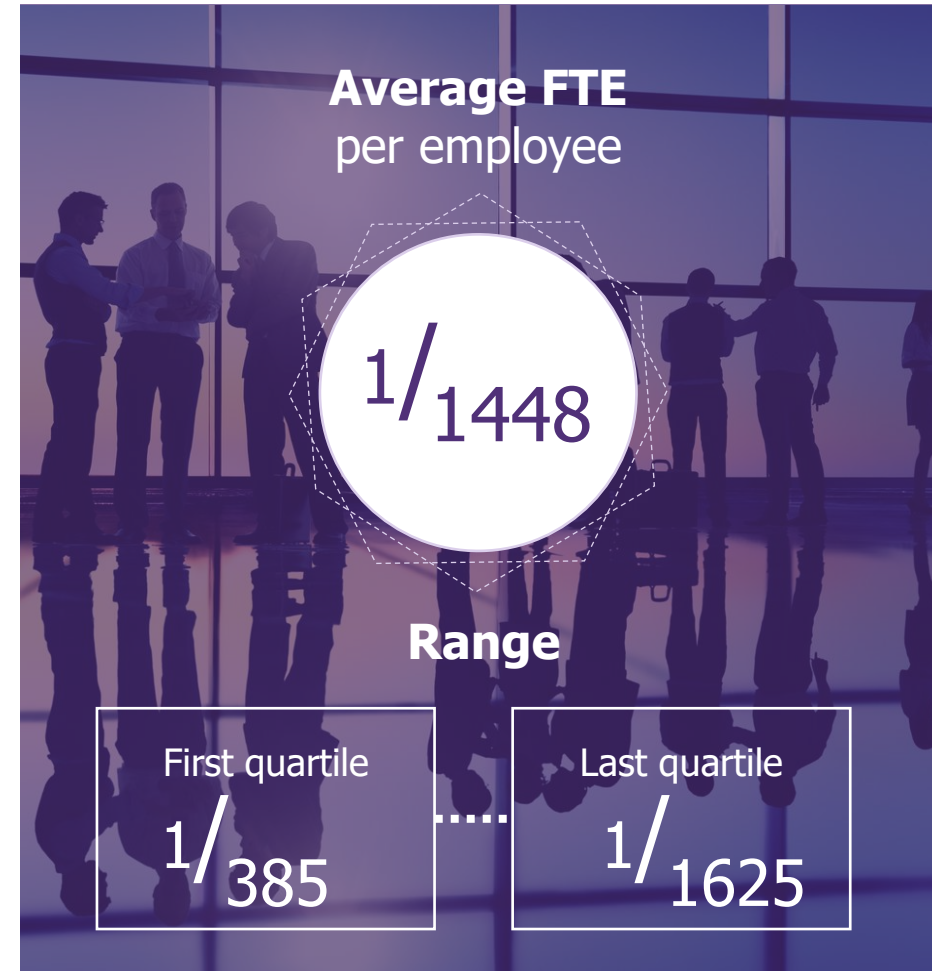
Financial services have gone through their remediation phase
and are now in RUN mode with lesser program.
Other sectors are still concentrating their efforts through
dedicated transformation program.

**Taking into account that budget percentages can vary a lot
depending on previous investments and current build VS run balance*

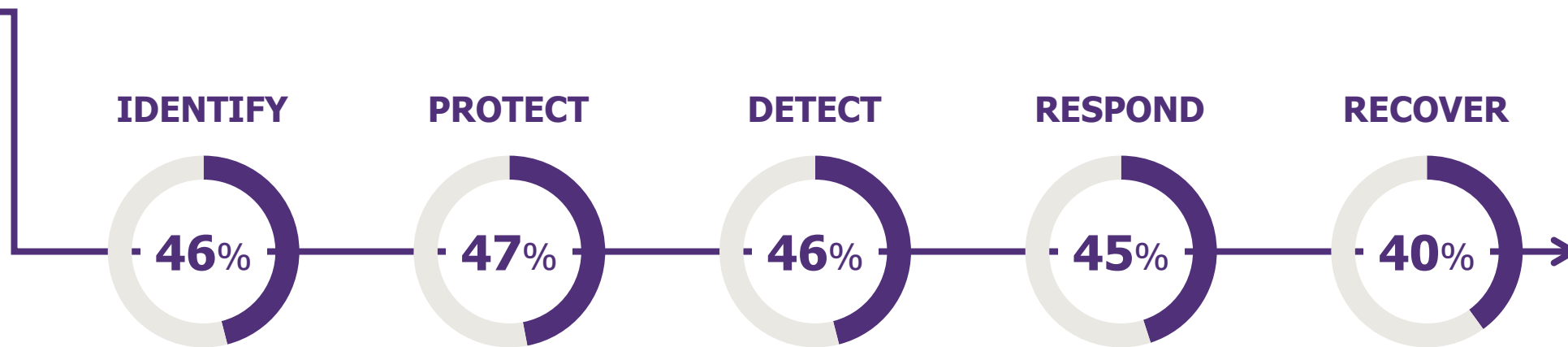
Cybersecurity teams are growing quickly, **many companies have doubled the size of their team**



In the current tense job market, **HR management** should be a **priority** on both **attractivity** and **retention**. International standards on cybersecurity are mostly missing these key actions.



How is the **MARKET** doing on **cyber topics**?



NIST pillars are nowadays **homogeneous** depicting the strong investment on **Detect & Respond** topics. The **Recover** topic is still lacking behind.

How is the **MARKET** doing on cyber topics?



Box plot view of maturity score for every topic: Maximum / 1st quartile / Median / 3rd quartile / Minimum. One dot is one organization.

RANSOMWARE RESILIENCE

30% OF LARGE ORGANIZATIONS ARE STILL LACKING KEY CONTROLS

Based on the latest cyberattack the CERT-Wavestone managed,
we selected **31 anti-ransomware controls** and evaluated maturity on these topics

Organisations:



FINANCIAL SERVICES



INDUSTRY



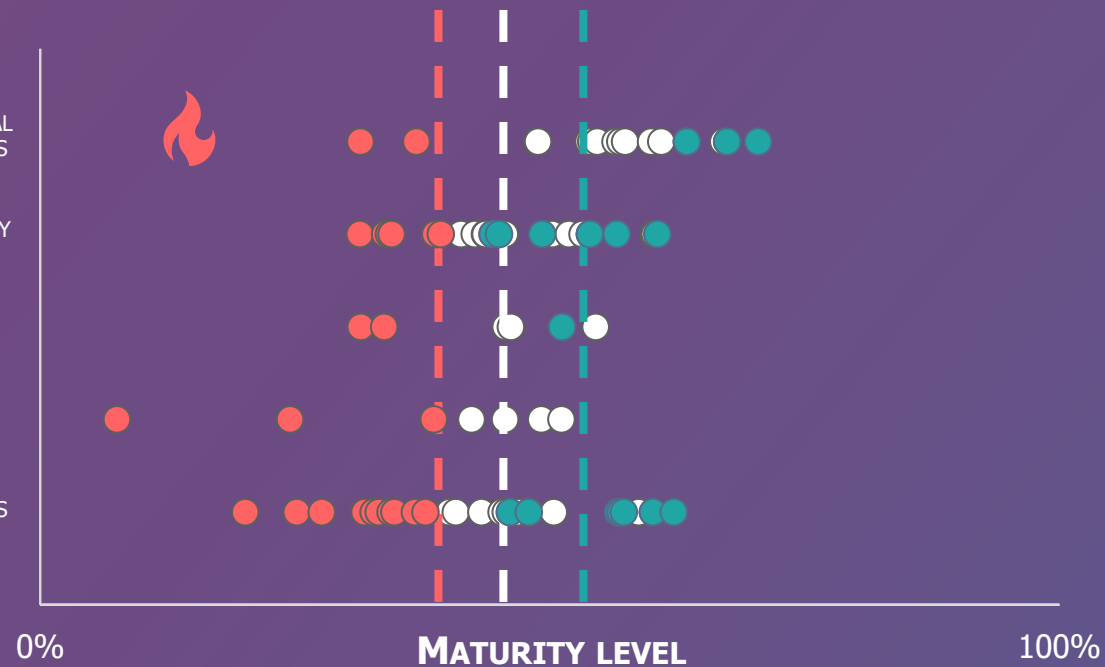
ENERGY



PUBLIC



SERVICES



ALL WAVESTONE CLIENT
AVERAGE: **46.2%**

TIER 1 COMPANIES
AVERAGE: **54.5%**

30% COMPANIES
CONSIDERED IN A CRITICAL
SITUATION

Cyber megatrends: major and long-standing transformation

DATA IS AND WILL BE
EVERYWHERE

DIGITAL
TRANSFORMATION OF
CYBERCRIME

INTERNET AND TECH
SEGREGATION

ZERO TRUST

RESILIENCE

CYBER IS UNDERSTOOD
« DOORS ARE OPENED »

**CONFIDENTIAL
COMPUTING**

HR

*Attractivity,
retention,
diversity...*

**THIRD PARTY
SECURITY**

YOUR NEW ALLIES ARE
STATES, POLICES FORCES
AND REGULATORS

**AI &
AUTOMATION**

**PRODUCT
SECURITY**

**CYBER IS A
BUSINESS
DIFFERENTIATOR**

PARIS

LONDON

NEW YORK

HONG KONG

SINGAPORE *

DUBAI *

BRUSSELS

LUXEMBOURG

GENEVA

CASABLANCA

LYON

MARSEILLE

NANTES

* Strategic Partners

WAVESTONE



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