

## WAVESTONE

**Cybersecurity Index** of Top Singapore Companies

July 2020



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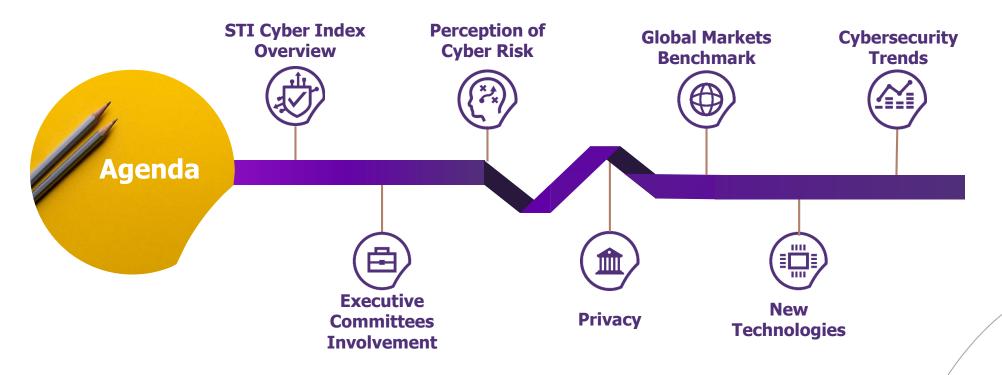
■ @ChadiHantouche

### How mature is the STI in Cybersecurity?



**Methodology:** This study is based upon a factual analysis of the most recent annual reports, published by the FTSE Straits Times Index (30 companies) up to June 1<sup>st</sup>, 2020. It is one of the studies conducted in June 2020 across 7 global financial centres: New York, London, Hong Kong, Paris, Singapore, Geneva and Brussels.

The results of this study are only as accurate as the statements and disclosures made by each company in its annual report. As a result, it is possible that a given company's cybersecurity maturity is better or worse than reported.



#### **STI 30 Sectorial Analysis:**

Finance and IT are leading the pack



# Wavestone's Top Companies Cybersecurity Index: 2020 Annual Reports

Wavestone's Top Companies Cybersecurity Index provides an assessment of companies' maturity levels, based upon the content of their annual reports. This index, scored out of 20, is based on 14 criteria weighted and marked between 0 and 2. These criteria cover the following topics:

#### **Risks and Challenges**

Infosec challenges, cyber risks and impacts, cyber insurance coverage, digital transformation and new technologies' security.

#### **Governance and Regulation**

Executive Committee involvement, Information Security governance, Personal Data protection, Awareness and training, Transparency following security incidents, Compliance to regulations and standards.

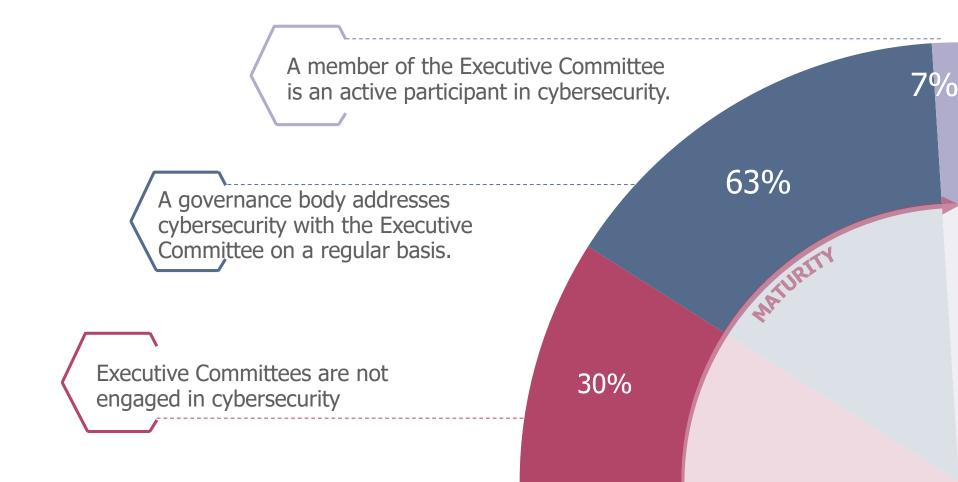
#### **Protection and Controls**

Action plan execution, cybersecurity programme, securing core business systems, audits and controls.

<sup>\*</sup>The assessment criteria are detailed in the appendix © WAVESTONE 3

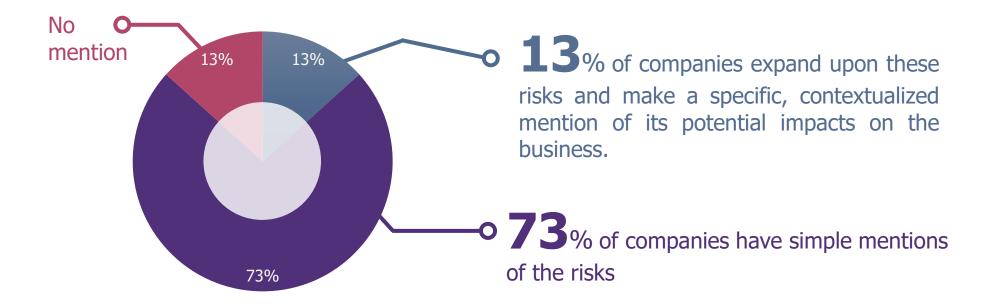
### Executive Committees are increasingly more involved

of STI companies address the question of cybersecurity at Executive Committee level.



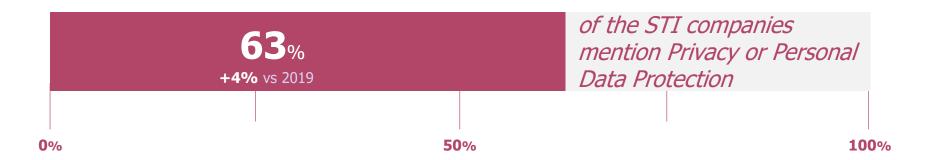
#### Cybersecurity Risk and its Associated Business Impacts

of STI 30 companies acknowledge that they face cybersecurity risks

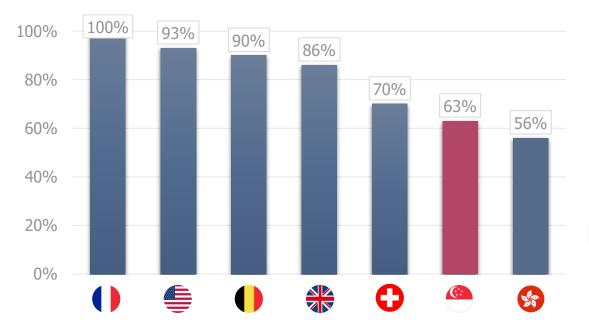


77% of companies state they take measures to tackle these risks.

### Privacy and Personal Data Protection are still improving

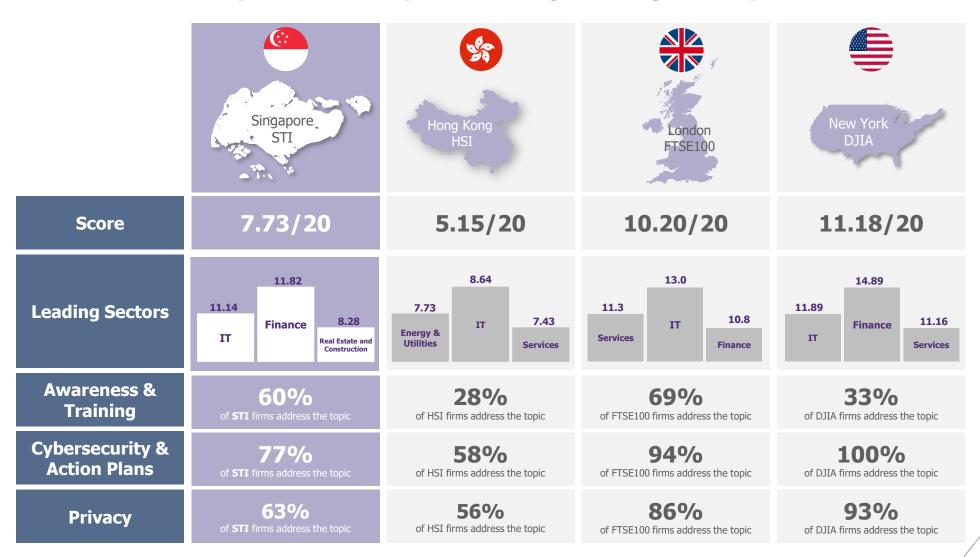


## 37% of companies make no specific reference to privacy and data protection regulations

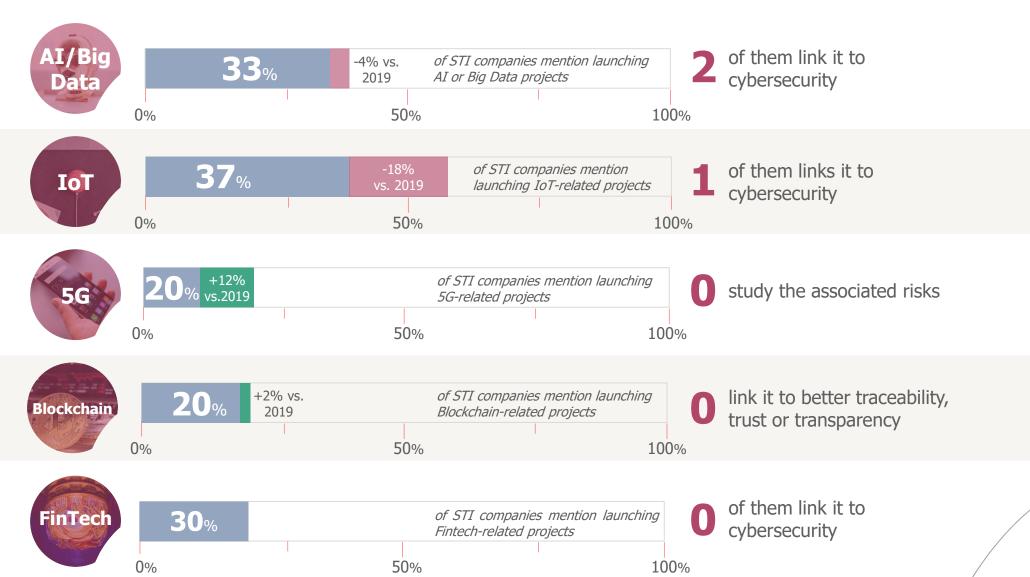


Compared to its international peers, Singapore is lagging behind in terms of Data Privacy.

## A comparative view of Singapore's STI Cybersecurity Index against global peers



#### Cybersecurity is not part of Technological Innovations



### Cybersecurity Trends within Singapore STI

#### **Incident Detection**

10 STI 30 companies implements measures to detect security incidents.

7 companies mention having a Security Operation Center (SOC).

#### **Cyber Resilience**

4 companies have subscribed to cyber risk insurance.

companies adopt a Business Continuity Plan.

#### **M&A Security**

2 companies take into account the risks associated with Mergers and Acquisitions.

2 companies include cybersecurity provisions in their **procurement** process.

#### **MATURE TOPICS**

are considering risks linked to third party suppliers and contractors.

O companies actively enforce security measures for third party (suppliers or contractors).

**Supply Chain Security** 

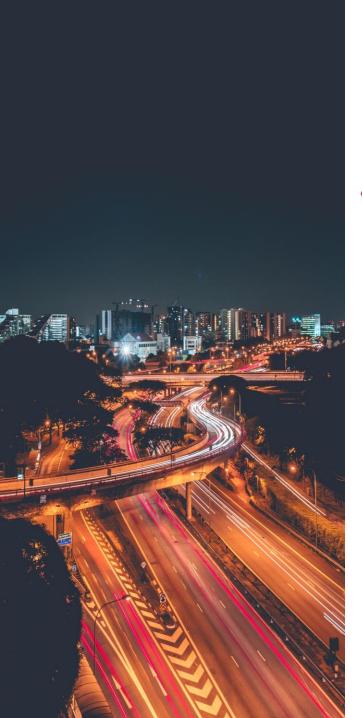
- companies are following **standards** or frameworks for the implementation of their cybersecurity,
- 2 indicate they are **ISO 27001- certified** on specific scopes.

Framework and Certifications (ISO/IEC 27001, NIST, PCI-DSS, CIS20, SANS, etc.)

#### **EMERGING TOPICS**

2 organization mentions the use of **Threat Intelligence** in their cybersecurity strategy.

Cyber Threat Intelligence (CTI)



## Final Thoughts...



Singapore's STI companies demonstrate overall low scores across industries, with the exception of Finance and IT.



Singapore scores best on Cybersecurity Governance in our global study.



The numbers are slowly improving, and should continue to improve in the coming years, while companies' awareness rises.

## **APPENDIX**

### Assessment chart (1/2)

	Weighting	Level 0	Level 1	Level 2
Information security issues and understanding of contextualised threat for the company	3	0 points No mention	+1 point Simple mention of the issues	+2 points  Detailed mention of the issues including mentions of how the threat and/or information security specific risks have developed for the business
Cyber risks and its specific impacts on the company's business taken into account	3	0 points No mention	+1 point Mention of cyber risk	+2 points  Detailed mention of risk and its impacts
Information security training and awareness	2	0 points No mention	+1 point Mention of awareness for staff and/or ExCo	+2 points  Mention of large scale awareness or training initiatives and/or aimed at subcontractors or other external parties
Level of Executive Committee involvement in cybersecurity matters	2	0 points No mention	+1 point Mention of ExCo's involvement	+2 points  Mentions the existence of an ExCo member directly involved and responsible for information security topics based on risk control (top owner of IS risk)
Cyber risk handling and coverage: cybersecurity investments, programme and action plan	2	0 points No mention	+1 point Mention of action plans	+2 points  Mention of significant investments to cover cybersecurity risks (e.g. a multiyear cybersecurity programme, more than a hundred FTE dedicated to cybersecurity covering a substantial number of points of presence, tens of millions of Euros of cybersecurity budget or a rough estimate by Wavestone if not specified)
Integrating cybersecurity into digital transformation (AI, Machine Learning, IoT, Blockchain)	1	0 points No mention	+1 point Simple mention	+2 points  Detailed mention of the specific risks of new technologies and/or specific securing actions
Cybersecurity governance	2	0 points No mention	+1 point Simple mention of the issues	+2 points  Mention of the CISO's hierarchical position or mention of how the cybersecurity function is organised at Group level

#### Assessment chart (2/2)

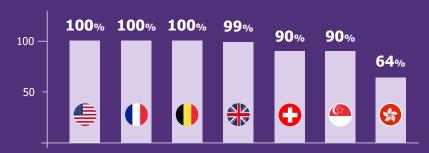
	Weighting	Level 0	Level 1	Level 2
Security of business-specific systems (Industrial control systems, anti-fraud mechanisms, payment systems, etc.)	1	0 points No mention	+1 point Mention of business- specific risks	+2 points  Mention of a significant programme and investments
Privacy: GDPR, Privacy, personal data protection	2	0 points No mention	+1 point Simple mention	+2 points  Mentions nomination of a DPO and/or implementation of a compliance programme, a control body
Transparency and reaction to publicly announced cyber attacks or major incidents	0	-2 points No mention of a well known incident	-1 point Mention of an incident without its remediation actions	0 point  Mention of incidents accompanied by action plans and/or changes made in remediation.
Taking out a cyber insurance policy	0	0 points No mention	+1 point Mentions taking out cyber insurance	+2 points  Mention of a level of cyber insurance cover above  €100M
Compliance with cybersecurity regulations (NIS, PCI-DSS, French LPM, HADS, NYDFS, etc.)	1	0 points No mention	+1 point Mentions regulations	+2 points  Mentions plans to comply with the stated regulations
Respect of cybersecurity standards and certifications (ISO27001, NIST, FFIEC, CIS20, SANS, etc.)	1	0 points No mention	+1 point Mention IS standards	+2 points  Mentions compliance, certification or alignment to the stated standards
Information security audit risk control	2	0 points No mention	+1 point Mention of audit and cyber risk coverage measures	+2 points  Mentions a specific significant or broad control plan led by the cybersecurity team / internal audit / inspectorate general

## A great involvement at a global scale

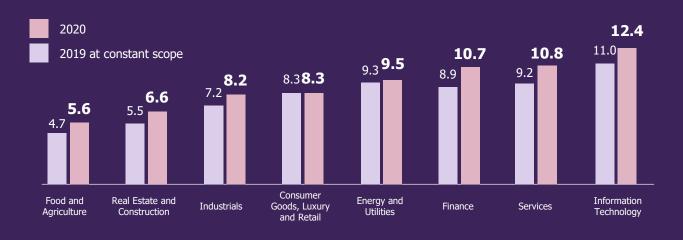
The following figures are based upon a factual analysis of the most recent annual reports, published by companies up to June 1<sup>st</sup>, 2020 listed in the stock market indices in 7 global financial centres: Dow Jones ( ), CAC 40 ( ), FTSE 100 ( ), BEL20 ( ), SMI ( ), HSI ( ), STI( ), representing a panel of 290 companies



+2 points VS 2019 at constant scope



## The Information Technology sector leads the way alongside the services and finance sectors



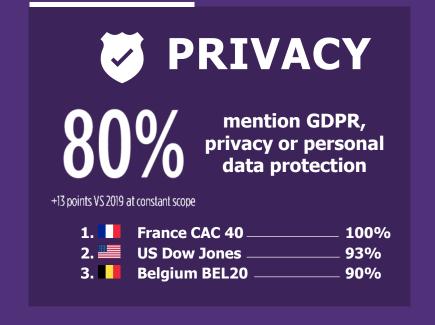


## Leading countries reach a maturity threshold

The bottom of the league is moving up

address cybersecurity at Executive Committee level
1. K UK FTSE 100 68% 2. US Dow Jones 63% 3. Singapore STI 63%

1.	France CAC 40	12.03	+1.97
•		11.18	
3. ≱⊭	UK FTSE 100	10.20	+1.10
4.	Belgium BEL20	9.64	
5.	Singapore STI	7.73	+0.31
6. 🛨	Swiss SMI	7.32	+3.70
7. 🔅	Hong Kong HSI	5.15	+1.05



#### **Top performing countries**

**#1 country** per topic

((	TRAINING & AWARENESS		<b>85%</b> coverage
	CYBERSECURITY INVESTMENTS & PROGRAMMES		100% coverage
•	CYBERSECURITY GOVERNANCE	<b>(</b> ::	<b>83%</b> coverage
ήή	AUDIT & RISK CONTROL		100% coverage

#### **Cybersecurity investments remain fragmented**

Comparisons are provided at constant scope with last year



#### Investments in innovative projects are still dynamic,

but cybersecurity is hardly part of the discussion, yet it should be.



#### Cybersecurity is mainly perceived as an operational risk

