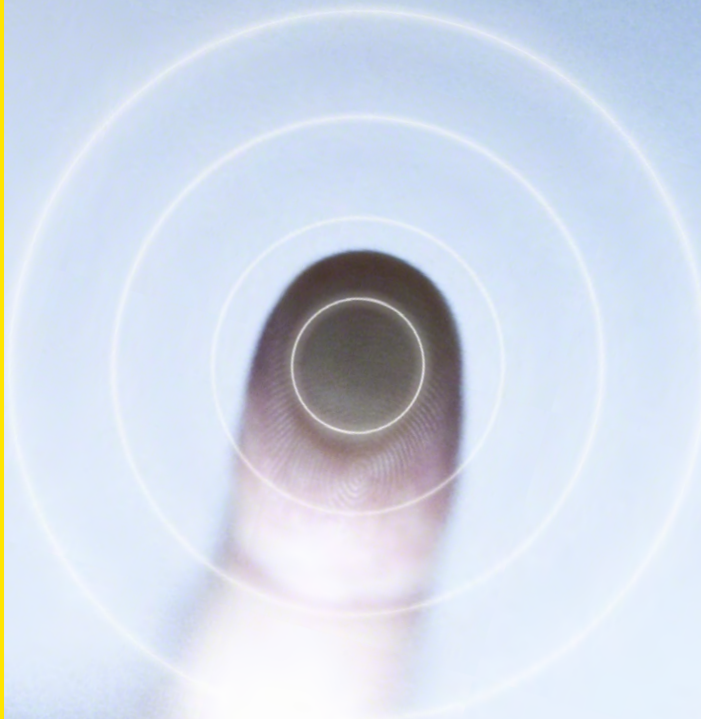


EY Global Information Security Survey 2016

Questionnaire



EY Global Information Security Survey 2016

Questionnaire

The questionnaire is divided into sections that relate to different dimensions of an enterprise:

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1 What is your organization's total annual spend on information security (approximately, including people, process and technology costs)? (*Select one*)

- | | |
|---|--------------------------|
| Less than US\$1 million | <input type="checkbox"/> |
| Between US\$1 million and US\$2 million | <input type="checkbox"/> |
| Between US\$2 million and US\$10 million | <input type="checkbox"/> |
| Between US\$10 million and US\$50 million | <input type="checkbox"/> |
| Between US\$50 million and US\$100 million | <input type="checkbox"/> |
| Between US\$100 million and US\$250 million | <input type="checkbox"/> |
| More than US\$250 million | <input type="checkbox"/> |
| Don't know | <input type="checkbox"/> |

2 Which of the following describes the change in your organization's total information security budget over the last 12 months? (*Select one*)

- | | |
|---|--------------------------|
| Increased by more than 25% | <input type="checkbox"/> |
| Increased between 15% and 25% | <input type="checkbox"/> |
| Increased between 5% and 15% | <input type="checkbox"/> |
| Stayed approximately the same (between +5% and -5%) | <input type="checkbox"/> |
| Decreased between 5% and 15% | <input type="checkbox"/> |
| Decreased between 15% and 25% | <input type="checkbox"/> |
| Decreased by more than 25% | <input type="checkbox"/> |
| Don't know | <input type="checkbox"/> |

3 Which of the following describes the change in your organization's total information security budget in the coming 12 months? (*Select one*)

- | | |
|---|--------------------------|
| Will increase by more than 25% | <input type="checkbox"/> |
| Will increase between 15% and 25% | <input type="checkbox"/> |
| Will increase between 5% and 15% | <input type="checkbox"/> |
| Will stay approximately the same (between +5% and 5%) | <input type="checkbox"/> |
| Will decrease between 5% and 15% | <input type="checkbox"/> |
| Will decrease between 15% and 25% | <input type="checkbox"/> |
| Will decrease by more than 25% | <input type="checkbox"/> |
| Don't know | <input type="checkbox"/> |

4 How much additional funding is needed to protect the company, in line with management's risk tolerance? (Select one)

0-25%	<input type="checkbox"/>
26-50%	<input type="checkbox"/>
51-75%	<input type="checkbox"/>
76 -100%	<input type="checkbox"/>
Over 100%	<input type="checkbox"/>
Don't know	<input type="checkbox"/>

5 How likely is it that any of the following events would encourage your organization to increase your information security budget in the coming 12 months?
(Select one response for each topic)

	Highly unlikely: (0-20% likelihood)	Unlikely: (20-50% likelihood)	Likely: (50-80% likelihood)	Highly likely: (80-100% likelihood)
Discovery of a breach with, apparently, no harm done	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discovery of a breach that resulted in the attackers impacting the organization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A DDoS attack	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A cyber attack on a major competitor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A cyber attack on a supplier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M&A activity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A physical loss of confidential corporate information on a mobile device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A physical loss of customer information on a mobile device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6 How does information security inform your organization's strategy and plans? *(Select the answer that best describes your current situation)*

We have fully considered the information security implications of our current strategy and plans. Our cyber threats, vulnerabilities and risks are included in the risk landscape and monitored. We are satisfied with our assessments, and our strategy and plans are unchanged.

We have somewhat considered the information security implications of our current strategy and plans. Our cyber threats, vulnerabilities and risks are somewhat included in the risk landscape and monitored, and we are planning a more thorough consideration. In the meantime, our current strategy and plans are unchanged.

We have somewhat considered the information security implications of our current strategy and plans. Our cyber threats, vulnerabilities and risks are somewhat included in the risk landscape and monitored. We have no plans to expand our consideration of information security risks at this current time.

We plan to include a consideration of the information security implications of our strategy and plans, when we undertake our next strategy review, and not before.

Concerns have been growing and we are just about to embark on an unscheduled consideration of the information security implications of our current strategy and plans. Our cyber threats, vulnerabilities and risks will be included in the risk landscape and monitored.

We recently made a significant change to our organization's strategy and plans as a result of cyber threats, vulnerabilities and risks being identified, which exposed the organization to too much risk.

We do not believe we have a full enough appreciation of the current information security implications, cyber threats, vulnerabilities and risks, and therefore cannot decide what impact this could have on our strategy and plans.

- 7** What information in your organization do you consider is the most valuable to cyber criminals (Select the top 5 you consider most valuable for your organization, and rank them from 1 as the most valuable, to 5 as less valuable)

	Rank
Customer personal, identifiable information	<input type="text"/>
Customer passwords	<input type="text"/>
Research and development (R&D) information	<input type="text"/>
Information exchanged during mergers and acquisition (M&A) activities	<input type="text"/>
Patented Intellectual Property (IP)	<input type="text"/>
Non-patented IP	<input type="text"/>
Senior executive / Board member personal information (inc. email accounts)	<input type="text"/>
Company financial information	<input type="text"/>
Supplier / vendor identifiable information	<input type="text"/>
Supplier / vendor passwords	<input type="text"/>
Corporate strategic plans	<input type="text"/>
Don't know	<input type="text"/>
Other (please specify)	<input type="text"/>

- 8** Which **threats*** and **vulnerabilities**** have most increased your risk exposure over the last 12 months? (Rate all of these items, with 1 as the highest priority, down to 5 as your lowest priority)

	Threats and vulnerabilities Top five
Vulnerability – outdated information security controls or architecture	<input type="checkbox"/>
Vulnerability – careless or unaware employees	<input type="checkbox"/>
Vulnerability – related to cloud computing use	<input type="checkbox"/>
Vulnerability – vulnerabilities related to mobile computing use	<input type="checkbox"/>
Vulnerability – related to social media use	<input type="checkbox"/>
Vulnerability – unauthorized access (e.g., due to location of data)	<input type="checkbox"/>
Threat – cyber attacks to disrupt or deface the organization	<input type="checkbox"/>
Threat – cyber attacks to steal financial information (credit card numbers, bank information, etc.)	<input type="checkbox"/>
Threat – cyber attacks to steal intellectual property or data	<input type="checkbox"/>
Threat – espionage (e.g., by competitors)	<input type="checkbox"/>
Threat – fraud	<input type="checkbox"/>
Threat – internal attacks (e.g., by disgruntled employees)	<input type="checkbox"/>
Threat – malware (e.g., viruses, worms and Trojan horses)	<input type="checkbox"/>
Threat – natural disasters (storms, flooding, etc.)	<input type="checkbox"/>
Threat – phishing	<input type="checkbox"/>
Threat – spam	<input type="checkbox"/>
Threat – zero-day attacks	<input type="checkbox"/>

*Threat is defined as the potential for a hostile action from actors in the external environment

** Vulnerability is defined as exposure to the possibility of being attacked or harmed exists

9 Who or what do you consider the most likely source of an attack? *(Select all that apply)*

- | | |
|---|--------------------------|
| Malicious employee | <input type="checkbox"/> |
| Careless employee | <input type="checkbox"/> |
| External contractor working on our site | <input type="checkbox"/> |
| Customer | <input type="checkbox"/> |
| Supplier | <input type="checkbox"/> |
| Other business partner | <input type="checkbox"/> |
| Criminal syndicates | <input type="checkbox"/> |
| State sponsored attacker | <input type="checkbox"/> |
| Hacktivists | <input type="checkbox"/> |
| Lone Wolf hacker | <input type="checkbox"/> |
| Other <i>(please specify)</i> | <input type="checkbox"/> |

10 How do you ensure that your external partners, vendors or contractors are protecting your organization's information? *(Select all that apply)*

- | | |
|--|--------------------------|
| Accurate inventory of all third-party providers, network connections and data | <input type="checkbox"/> |
| Fourth parties (also known as sub-service organizations) are identified and assessments performed (e.g., questionnaires issued, reliance placed on your vendor's assessment processes) | <input type="checkbox"/> |
| All third parties are risk-rated and appropriate diligence is applied | <input type="checkbox"/> |
| Only critical or high-risk third parties are assessed | <input type="checkbox"/> |
| Self-assessments or other certifications performed by partners, vendors or contractors | <input type="checkbox"/> |
| Assessments performed by your organization's information security, IT risk, procurement or internal audit function (e.g., questionnaires, site visits, security testing) | <input type="checkbox"/> |
| Independent external assessments of partners, vendors or contractors (e.g., SSAE 16, ISAE-3402) | <input type="checkbox"/> |
| Other <i>(please specify)</i> | <input type="checkbox"/> |
| Don't know | <input type="checkbox"/> |

11 What are the main risks associated with the growing use of mobile devices (e.g., laptops, tablets, smartphones) in your organization? *(Select all that apply)*

- | | |
|--|--------------------------|
| The loss of a single smart device not only means the loss of information, but increasingly it also leads to a loss of identity | <input type="checkbox"/> |
| Devices do not have the same firmware or software running on them | <input type="checkbox"/> |
| Hardware interoperability issues of devices | <input type="checkbox"/> |
| Network engineers cannot patch vulnerabilities fast enough | <input type="checkbox"/> |
| Organized cyber criminals sell hardware with Trojans or backdoors already installed | <input type="checkbox"/> |
| Hijacking of devices | <input type="checkbox"/> |
| Poor user awareness / behavior | <input type="checkbox"/> |
| Other <i>(please specify)</i> | <input type="checkbox"/> |

12 What do you consider to be the information security challenges of the Internet of Things (IoT) for your organization? *(Select all that apply)*

- | | |
|--|--------------------------|
| Keeping the high number of IoT connected devices updated with the latest version of code and security bug free | <input type="checkbox"/> |
| Identifying suspicious traffic over the network | <input type="checkbox"/> |
| Finding hidden or unknown zero-day attacks | <input type="checkbox"/> |
| Ensuring that the implemented security controls are meeting the requirements of today | <input type="checkbox"/> |
| Knowing all your assets | <input type="checkbox"/> |
| Managing the growth in access points to your organization | <input type="checkbox"/> |
| Tracking the access to data in your organization | <input type="checkbox"/> |
| Defining and monitoring the perimeters of your businesses ecosystem | <input type="checkbox"/> |
| Other <i>(please specify)</i> | <input type="checkbox"/> |
| Don't know | <input type="checkbox"/> |

13 What do you consider to be the main obstacles that need to be overcome to enable the wider adoption of IoT devices in your organization? *(Select all that apply)*

- | | |
|--|--------------------------|
| Lack of skilled resources | <input type="checkbox"/> |
| Budget constraints | <input type="checkbox"/> |
| Lack of executive awareness or support | <input type="checkbox"/> |
| Management of governance issues | <input type="checkbox"/> |
| Lack of quality controls | <input type="checkbox"/> |
| Privacy concerns of employees | <input type="checkbox"/> |
| Other <i>(please specify)</i> | <input type="checkbox"/> |

14a Which of the following information security areas would you define as “High, Medium or Low priorities” for your organization over the coming 12 months? (*Select one response for each topic*)

	High	Medium	Low
Business continuity / disaster recovery resilience	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cloud computing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data leakage / data loss prevention	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Forensics support	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fraud support	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Identity and access management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Incident response capabilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Information security transformation (fundamental redesign)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insider risk / threats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intellectual property (IP)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IT security and operational technology integration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mobile devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Offshoring / outsourcing security activities, including third-party supplier risk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Privacy measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Privileged access management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Robotic process automation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing connected devices on the IoT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing cryptocurrencies (e.g., Bitcoin)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing emerging technologies (e.g., advanced machine learning, ambient user experience, 3D printing materials)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security architecture redesign	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security awareness and training	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security incident and event management (SIEM) and Security Operations Center (SOC)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security operations (e.g., antivirus, patching, encryption)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security testing (e.g., attack and penetration)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Social media	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Third-party risk management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Threat and vulnerability management (e.g., security analytics, threat intelligence)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (<i>please specify</i>)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

14b Compared to the previous year, does your organization plan to spend more, less or relatively the same amount over the coming year for the following activities?
(Select one response for each topic)

	Spend more	Spend less	Same or constant
Business continuity / disaster recovery resilience	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cloud computing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data leakage / data loss prevention	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Forensics support	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fraud support	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Identity and access management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Incident response capabilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Information security transformation (fundamental redesign)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insider risk / threats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intellectual property (IP)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IT security and operational technology integration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mobile devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Offshoring / outsourcing security activities, including third-party supplier risk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Privacy measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Privileged access management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Robotic process automation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing connected devices on the IoT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing cryptocurrencies (e.g., Bitcoin)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing emerging technologies (e.g., advanced machine learning, ambient user experience, 3D printing materials)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security architecture redesign	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security awareness and training	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security incident and event management (SIEM) and Security Operations Center (SOC)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security operations (e.g., antivirus, patching, encryption)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security testing (e.g., attack and penetration)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Social media	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Third-party risk management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Threat and vulnerability management (e.g., security analytics, threat intelligence)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

15 What Information Security functions are you outsourcing? *(Select all that apply)*

Security monitoring	<input type="checkbox"/>
Vulnerability assessment	<input type="checkbox"/>
Self-phishing	<input type="checkbox"/>
Vendor risk management	<input type="checkbox"/>
IT security helpdesk	<input type="checkbox"/>
One time exercises (e.g., setting up ISMS)	<input type="checkbox"/>
Consultancy specific information security activities	<input type="checkbox"/>
Other <i>(please specify)</i>	<input type="checkbox"/>

16 Please rate the following information security management processes in your organization in terms of maturity *(Select on a scale of 1 to 5, where 1 is non-existent and 5 is very mature)*. Refer to 'Appendix' for details

	Non-existent 1	2	3	4	Very mature 5
Architecture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Asset management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Awareness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BCP / DR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data infrastructure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Governance and organization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Host security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Identity and access management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Incident management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Metrics and reporting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Network security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Policy and standards framework	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Privacy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Software security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Strategy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Third-party management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Threat and vulnerability management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other <i>(please specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

17 What functions of your Security Operations Center (SOC) are outsourced? *(Select all that apply)*
(If your organization does not have a Security Operations Center (SOC), please skip to Q19)

- | | |
|--|--------------------------|
| We do not have a SOC | <input type="checkbox"/> |
| Real time network security monitoring | <input type="checkbox"/> |
| Incident investigation | <input type="checkbox"/> |
| Digital / malware forensics | <input type="checkbox"/> |
| Threat intelligence collection / feeds | <input type="checkbox"/> |
| Threat intelligence analysis | <input type="checkbox"/> |
| Cybersecurity exercise creation and delivery | <input type="checkbox"/> |
| Vulnerability scanning and management | <input type="checkbox"/> |
| Penetration testing | <input type="checkbox"/> |
| We fulfill all functions in-house | <input type="checkbox"/> |
| Other <i>(please specify)</i> | <input type="checkbox"/> |
| Don't know | <input type="checkbox"/> |

18 How does your SOC keep up to date with the latest threats? *(Select all that apply)*

- | | |
|--|--------------------------|
| Our SOC collaborates and shares data with other public SOCs | <input type="checkbox"/> |
| Our SOC collaborates and shares data with others in our industry | <input type="checkbox"/> |
| Our SOC has analysts that read and subscribe to specific open source resources | <input type="checkbox"/> |
| Our SOC has a paid subscription to cyber threat intelligence feeds | <input type="checkbox"/> |
| Our SOC has dedicated individual(s) focusing solely on cyber threat intelligence | <input type="checkbox"/> |
| None of the above | <input type="checkbox"/> |
| Don't know | <input type="checkbox"/> |

19 Thinking about the most recent significant cybersecurity incident, how was it discovered?
(Select one)

- | | |
|--|--------------------------|
| We have not had a significant incident | <input type="checkbox"/> |
| Discovered by the SOC | <input type="checkbox"/> |
| Discovered internally by a business function | <input type="checkbox"/> |
| Discovered externally by a third-party | <input type="checkbox"/> |
| Other <i>(please specify)</i> | <input type="checkbox"/> |

20 Which statement best describes the maturity of your **threat intelligence** program? (Select one)

- We do not have a threat intelligence program
- We have an informal threat intelligence program that incorporates information from trusted third parties and email distribution lists
- We have a formal threat intelligence program that includes subscription threat feeds from external providers and internal sources, such as a security incident and event management tool
- We have a threat intelligence team that collects internal and external threat and vulnerability feeds to analyze for credibility and relevance in our environment
- We have an advanced threat intelligence function with internal and external feeds, dedicated intelligence analysts and external advisors that evaluate information for credibility, relevance and exposure against threat actors

21 Which statement best describes the maturity of your **vulnerability identification** capability? (Select one)

- We do not have a vulnerability identification program
- We have an informal vulnerability identification program and perform automated testing on a regular basis
- We use a variety of review approaches, including social engineering and manual testing
- We have a formal vulnerability intelligence function with a program of assessments based on business threats utilizing deep dive attack and penetration testing of suppliers, periodical testing of business processes, and project testing, (e.g., new systems)
- We have an advanced vulnerability intelligence function and conduct risk-based assessments with results and remediation agreed with the risk function throughout the year

22 Which statement best describes the maturity of your **breach detection** program? (Select one)

- We do not have a detection program
- We have perimeter network security devices (i.e., IDS)
- We do not have formal processes in place for response and escalation
- We utilize a security information and event management (SIEM) solution to actively monitor network, IDS / IPS and system logs
- We have an informal response and escalation processes in place
- We have a formal detection program that leverages modern technologies (host-based and network-based malware detection, behavioral anomaly detection, etc.) to monitor both internal and external traffic
- We use ad hoc processes for threat collection, integration, response and escalation
- We have a formal and advanced detection function that brings together each category of modern technology (host-based malware detection, antivirus, network-based malware detection, DLP, IDS, next-gen firewalls, log aggregation) and use sophisticated data analytics to identify anomalies, trends and correlations
- We have formal processes for threat collection, dissemination, integration, response, escalation and prediction of attacks

23 Which statement best describes the maturity of your **incident response** capability? (Select one)

- We do not have an incident response capability
- We have an incident response plan through which we can recover from malware and employee misbehavior. Further investigations into root causes are not conducted.
- We have a formal incident response program and conduct investigations following an incident
- We have a formal incident response program and established arrangements with external vendors for more complete identity response services and investigations
- We have a robust incident response program that includes third parties and law enforcement and is integrated with our broader threat and vulnerability management function. We build playbooks for potential incidents and test those playbooks via table-top exercises regularly.

24 Which statement best describes the maturity of your **data protection** program? (Select one)

- We do not have a data protection program
- Data protection policies and procedures are informal or ad-hoc policies are in place
- Data protection policies and procedures are defined at the business unit level
- Data protection policies and procedures are defined at the group level
- Data protection policies and procedures are defined at the group level with corporate oversight and communicated through the business, with specific business unit exceptions documented, tracked and annually reviewed

25 Which statement best describes the maturity of your **identity and access management** program? (Select one)

- We do not have an identity and access management program
- A team with oversight of access management processes and central repository conducts reviews yet not formally established
- A formal team provides oversight on defined access management processes although largely manual; a central directory is in place yet interacts with a limited number of applications and not regularly reviewed
- A formal team interacts with business units in gaining oversight with well-defined processes, limited automated workflows, single source sign-on on for most applications and regular reviews

26 Which statement best describes the maturity of your **robotic process automation capability**?
(Select one)

- | | |
|--|--------------------------|
| We do not have a robotic process automation capability | <input type="checkbox"/> |
| We have a robotic process automation capability, but do not yet have a governance process in place | <input type="checkbox"/> |
| We have a robotic process automation capability with a governance process outside of IT | <input type="checkbox"/> |
| We have a robotic process automation capability that sits within IT governance | <input type="checkbox"/> |
| We have a robotic process automation capability that sits within IT governance and the robot is specifically protected against hacking | <input type="checkbox"/> |
| We have a robotic process automation capability that sits within IT governance; the robot is specifically protected against hacking and the robot is able to change the rules definition | <input type="checkbox"/> |

27 Do you consider that the security of blockchains offers a realistic choice of payment method for your organization? (Select one)

- | | |
|---|--------------------------|
| Not at all aware of blockchains and their function | <input type="checkbox"/> |
| Have some awareness of blockchains, but not enough knowledge to properly evaluate | <input type="checkbox"/> |
| Blockchains have potential, but will not consider it for at least another year | <input type="checkbox"/> |
| We are actively considering blockchains, but have no plans to implement yet | <input type="checkbox"/> |
| We are actively considering blockchains and are developing plans to implement within the next 2 years | <input type="checkbox"/> |
| Do not believe in the security of blockchains | <input type="checkbox"/> |
| Other (please specify) | <input type="checkbox"/> |

28 How does your Information Security function interface outside of IT? *(Select all that apply)*

- Directly reports outside of IT
- Places dedicated business line security officers in key lines of business
- Provides ad hoc reports on request to the Board / audit committee level stakeholders
- Sometimes produces scheduled reports (2-6x/year) to Board / audit committee level stakeholders
- Regularly produces scheduled reports (>6x/year) to Board / audit committee level stakeholders
- Specifically identifies non-IT "crown jewels" and differentially protects those information assets
- None of the above
- Other *(please specify)*

29 If, in your role, you receive reports on your organization's information security, how effective are they? *(Select all that apply)*

- I do not receive reports on the organization's information security
- The reports provide metrics on the number of cyber attacks made on the organization
- The reports provide metrics on the number of cyber attacks successfully defended against
- The reports provide information on every attack where a breach occurred
- The reports evaluate the financial impact of every significant breach
- The reports evaluate whether a regulator needs to be notified of a particular breach
- The reports identify areas where improvement is needed
- The reports provide an overall threat level for the organization
- The reports I receive are very informative and inspire confidence
- The reports I receive are not informative enough and do not fully inspire confidence
- None of the above
- Other *(please specify)*

30 How knowledgeable do you feel the whole Board is on the topic of information security? *(Select the response that most closely describes the current situation)*

- The Board has sufficient knowledge of information security to fully evaluate the effectiveness of the risks the organization is facing and the measures the organization is taking
- The Board does not have sufficient knowledge of information security to fully evaluate the effectiveness of the risks the organization is facing and the measures the organization is taking
- The Board does not have sufficient knowledge of information security to fully evaluate the effectiveness of the risks the organization is facing and the measures the organization is taking. They are taking positive steps to improve their understanding.
- The Board does not have sufficient knowledge of information security to fully evaluate the effectiveness of the risks the organization is facing and the measures the organization is taking. This has resulted in incorrect decision-making.
- Don't know
- Other *(please specify)*

31a Who is directly responsible for information security? (*Select one*)

- | | | |
|---|--------------------------|------------|
| The CIO / Head of IT is directly responsible | <input type="checkbox"/> | Go to Q31b |
| The CISO / IT Risk / Network Security Officer is directly responsible | <input type="checkbox"/> | Go to Q31b |
| Information security is the direct responsibility of another role
(<i>please specify role</i>) | <input type="checkbox"/> | Go to Q31b |
| We do not have anyone who is directly responsible | <input type="checkbox"/> | Go to Q32 |
| Direct responsibility for our information security lies outside
of our organization | <input type="checkbox"/> | Go to Q32 |

31b What is their position in relation to the Board?

- | | |
|---|--------------------------|
| Is on the Board of our organization | <input type="checkbox"/> |
| Is not on the Board of our organization | <input type="checkbox"/> |

32 In your opinion, what is the likelihood of your organization being able to detect a sophisticated cyber attack? (*Select one*)

- | | |
|--|--------------------------|
| We have not had a significant incident | <input type="checkbox"/> |
| Very Likely (80-100% likelihood) | <input type="checkbox"/> |
| Likely (50-80% likelihood) | <input type="checkbox"/> |
| Unlikely (20-50% likelihood) | <input type="checkbox"/> |
| Highly unlikely (0-20% likelihood) | <input type="checkbox"/> |

33 How would you characterize the extent to which the Information Security function is meeting the needs of your organization? (*Select one*)

- | | |
|---|--------------------------|
| Fully meets the organizational needs | <input type="checkbox"/> |
| Partially meets the organizational needs and improvement is underway | <input type="checkbox"/> |
| Partially meets the organizational needs and there are no agreed plans for improvement | <input type="checkbox"/> |
| It does not meet the organizational needs but improvement is underway | <input type="checkbox"/> |
| It does not meet the organizational needs and there are no agreed plans for improvement | <input type="checkbox"/> |

34 What are the main obstacles or reasons that challenge your Information Security operation's contribution and value to the organization? *(Select all that apply)*

- Lack of skilled resources
- Budget constraints
- Lack of executive awareness or support
- Management and governance issues
- Lack of quality tools for managing information security
- Fragmentation of compliance / regulation
- Other *(please specify)*

35a Does your organization have an agreed-upon communications strategy or plan in place in the event of a significant cyber attack taking place and data being compromised?

- Yes Go to Q35b
- No Go to Q36

35b Considering the following scenarios, at what point in time would your organization be most likely to communicate that a significant cyber attack has taken place and that data in your organization has definitely been compromised? *(Select a response for each statement)*

	On day1	Within the first week while investigations continue	Within the first month while investigations continue	Only after all investigations are complete and the issue is closed	Never	Don't know
Notify regulators / compliance organizations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If customer information affected, notify all customers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If no customer information affected, notify all customers anyway	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Individually notify only those customers impacted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Issue a press release / public statement to the media	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If supplier information affected, notify all suppliers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If no supplier information affected, notify all suppliers anyway	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Individually notify only those suppliers impacted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other <i>(please specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

36 What was the primary control or process failure that lead to your most significant cyber breach(es) in the last year? *(Select one)*

Lack of multi-factor authentication for remote users	<input type="checkbox"/>
Poorly secured internet-facing systems and / or applications	<input type="checkbox"/>
End user awareness, exploited via phishing	<input type="checkbox"/>
Lack of network segmentation to prevent attacker moving from internet to "crown jewel"	<input type="checkbox"/>
Lack of security leadership (e.g., no CISO)	<input type="checkbox"/>
Outdated / unpatched systems	<input type="checkbox"/>
Inability to identify/contain breaches before they increased in significance	<input type="checkbox"/>
Other <i>(please specify)</i>	<input type="checkbox"/>
Don't know	<input type="checkbox"/>

37 What benchmarking information is most useful? *(Rank from 1 to 5, with 1 being most important).*

Information security maturity of peer organizations by sector	<input type="checkbox"/>
Effectiveness of a given technology class (e.g., DLP, end-point protection, perimeter detection, SOC/SIEM)	<input type="checkbox"/>
Internal reporting structure for the information security function	<input type="checkbox"/>
Funding amount and allocation across security function	<input type="checkbox"/>
Effectiveness of threat intelligence sources	<input type="checkbox"/>
None of the above	<input type="checkbox"/>
Not interested in peer comparisons or benchmarking	<input type="checkbox"/>
Other <i>(please specify)</i>	<input type="checkbox"/>

38 Do you have a role or department in your Information Security function focusing on the following technologies and their impact on your organization's information security? *(Select a response for each topic)*

	Yes	No, but planning to implement	No	Don't know	Technology is not applicable
IoT connected devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blockchains and cryptocurrencies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Robotic process automation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advanced machine learning / artificial intelligence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

39 What is your estimate of the total financial damage related to information security incidents over the past year (this includes loss of productivity, regulatory fines, etc.; the estimate excludes costs or missed revenue due to brand damage)? *(Select one)*

- | | |
|---|--------------------------|
| Between US\$0 and US\$100,000 | <input type="checkbox"/> |
| Between US\$100,000 and US\$250,000 | <input type="checkbox"/> |
| Between US\$250,000 and US\$500,000 | <input type="checkbox"/> |
| Between US\$500,000 and US\$1 million | <input type="checkbox"/> |
| Between US\$1 million and US\$2.5 million | <input type="checkbox"/> |
| Above US\$2.5 million | <input type="checkbox"/> |
| Had no information security incidents that resulted in any financial damage | <input type="checkbox"/> |
| Don't know | <input type="checkbox"/> |

40 What is your current level of interest in cyber insurance? *(Select one)*

- | | |
|--|--------------------------|
| We currently have cyber insurance that meets our organization's needs | <input type="checkbox"/> |
| We currently have cyber insurance, but it does not meet our organization's needs | <input type="checkbox"/> |
| We do not have cyber insurance and are actively looking for appropriate cover | <input type="checkbox"/> |
| We do not have cyber insurance and we have no plans to adopt it | <input type="checkbox"/> |
| We have never considered cyber insurance | <input type="checkbox"/> |
| Other <i>(please specify)</i> | <input type="checkbox"/> |

Thank you for your participation!

Appendix (for Q.16)

Domain	Areas in scope for domain
Architecture	<p>This domain reconciles business requirements with solutions, including component selection and implementation, to provide a coherent framework for identifying security needs in an organization, and putting systems and processes in place to meet those needs.</p> <p>In a mature organization, the architecture function is used to manage the information security solutions and technologies that promote interoperability and manageability while meeting the organization's risk management needs. The architecture may include a core set of design principles that support the information security program goals. The technology components of architecture typically include network, host, application and data. Architecture processes in an organization include governance and standards functions.</p>
Asset management	<p>IT asset management (ITM) encompasses the infrastructure and processes necessary for the effective management, control and protection of the hardware and software assets within an organization, throughout all stages of their lifecycle.</p>
Awareness	<p>The scope for a security awareness program consists of all staff within an organization, including self-employed staff, contractors and third party service providers. Special attention is given to employees with security responsibilities as for example developers, service desk personnel, control room personnel, physical security guards, receptionists, information security and IT security staff, and management.</p> <p>Security awareness is typically a program with a long-term shift and direction following a wave-pattern: on a regular basis new trainings and campaigns are launched, as people typically require repetition to learn.</p> <p>It is important to protect information throughout its lifecycle: creation, distribution, storage, usage, and destruction should receive equal attention.</p>
BCP/DR	<p>This domain covers business continuity and disaster recovery concepts such as senior management support for BCM, adequate skilled resources, process definition, business impact analysis, testing of plans, and metrics reporting.</p>
Data infrastructure	<p>Data repositories, warehouses, and systems to support a classic business intelligence function within security operations.</p>
Data protection	<p>EY takes a holistic view of data security. While data governance and management are foundational elements, the business is the driver for these elements. Security's focus is on protecting and a major component of this view relates to DLP with the program's goal to effectively manage data loss risks. Data includes, for example, intellectual property, customer data, transaction data, privacy data as well as client specific sensitive data.</p> <p>DLP is concerned with data throughout the data lifecycle; Data at Rest, Data in Motion and Data in Use. DLP requires an understanding of what data you have, the value of that data, your obligations to protect that data, where the data resides, who access the data, where the data is going, how you protect the data, the gaps and risks in your current protection and how you respond to data leaks.</p>
Governance and organization	<p>This domain covers the information security program governance structure (including defined roles and responsibilities), business alignment, executive engagement and support, and monitoring and oversight of the information security function.</p>

continues

Appendix (For Q.16) (continued)

Domain	Areas in scope for Domain
Host security	<p>This domain covers the protection mechanisms and controls in place at the host level. Topics in scope for this section are:</p> <ul style="list-style-type: none"> - Anti-virus - Full disk encryption - Malware protection - Hardware access control - Patch management
Identity and access management	<p>Identity and access management (IAM) can be described by defining its core components, identity management and access management.</p> <p>Identity management refers to the processes associated with managing the entire lifecycle of digital identities and profiles for people, processes, and technology. It typically includes:</p> <ul style="list-style-type: none"> - Establishing unique identities and associated authentication credentials - Provisioning new user accounts - Managing identity data and credentials (e.g., self-service password reset) - Creating workflow processes for approving account creation and modification - Providing the ability to modify, suspend, or remove accounts - Auditing and reporting of user identity information. <p>Access management refers to the processes used to control who has access to specific information assets, including:</p> <ul style="list-style-type: none"> - Providing the capability to request specific entitlements and/or roles - Implementing workflow processes for approving the granting of entitlements and/or roles to a user - Providing the ability to modify or remove the entitlements and/or roles assigned to a user - Managing the association of entitlements to roles - Associating entitlements and roles to job functions - Providing the ability to review, remove, approve, and certify the entitlements and / or roles assigned to users - Providing the ability to review and audit historical access - Identifying, reporting and preventing inappropriate combinations of access.
Incident management	<p>Incident management is defined as the formal function for reporting and responding to incidents that may adversely impact the organization's assets, operations, reputation, financial position, intellectual capital, or confidential information. It serves as a critical component of an organization's overall information security structure, and provides a foundation for identifying and responding to incidents in a consistent and well-organized manner.</p>
Metrics and reporting	<p>The metrics and reporting domain encompasses any defined, repeatable measurement activity that aids the organization in understanding the various components within their information security program, and how the program supports the business strategy. The domain includes analyzing the information security goals set by the business, and defining repeatable methods of measurement to show effectiveness, or progress in meeting those desired goals.</p> <p>Dependent domain(s): All domains within the framework could have inputs into the metrics and reporting domain. A mature metrics program will inherently measure and report on strategic goals, but the inclusion of "Services" domains into the metrics program will depend on applicability to the organization.</p>

continues

Appendix (for Q.16) *(continued)*

Domain	Areas in scope for domain
Network security	<p>The network security domain captures the policies, processes, tools, and technologies that are used to maintain security at the network level, and includes access management (e.g., network devices, remote access, access to logs, third-party access), vulnerability management, incident identification and notification, device configuration and patch management, and network architecture, including wireless networks.</p> <p>Although there is an overlap, we have attempted to not include topics related to host security, non-network architecture, security monitoring, and threat and vulnerability management.</p>
Operations	<p>The Operations scope for the SPM framework is:</p> <ol style="list-style-type: none"> 1. Change management 2. Configuration management 3. Communications and operations management 4. Backup 5. Physical and environment security 6. System planning and acceptance 7. Operations access control
Policy and standards framework	<p>This domain encompasses the formal development, documentation, review, and approval of the information security policies, standards, and guidelines that defines the information security requirements, processes and controls to be implemented for protection of an organization's information and IT assets. This domain also includes periodic review of PSGs, lifecycle management processes, IT and business stakeholder engagement, and compliance monitoring for PSGs.</p>
Privacy	<p>In today's digital world, personal identifiable information is being gathered on a vast scale and organizations need to focus on abiding by the ever growing weight of regulation, as well as find more and more secure ways of keeping this information safe from cyber attackers.</p>
Security monitoring	<p>The capabilities to successfully capture and monitor logs from network devices, hosts, files, databases, and privileged user access so as to identify or be alerted of events that require further investigation due to the potential of being security events that may need to trigger the incident response process.</p>
Software security	<p>Software security focuses on the development of software and information security's role in that. This covers both internal and external software development and SDLC process and controls. However, the process of identifying and managing vulnerabilities is managed through threat and vulnerability (TVM) management.</p>
Strategy	<p>Strategy focuses primarily on the information security related goals for the organization, as well as how these have been defined and communicated, and how often they are reviewed. A key element of this is alignment to organizational objectives to ensure strategic priorities are met. Strategy is also inclusive of high level planning for information security, including budget.</p>
Third-party management	<p>The process for managing third-parties, and the transfer and exchange to, or storage of information/data by the third-parties. This domain includes, contract requirements and obligations with third-parties, monitoring processes, and compliance/audit checks for third-parties.</p>
Threat and vulnerability management	<p>Threat and vulnerability management (TVM) is the programmatic approach for an organization to predict threats, identify and remediate vulnerabilities, detect and respond to attacks, and strategically develop counter measures. Functionally TVM should include APT, threat intelligence, vulnerability identification, remediation, detection, response, and countermeasure planning.</p>

If you were under cyber attack, would you ever know?

As many organizations have learned, sometimes the hard way, cyber attacks are no longer a matter of if, but when. Hackers are increasingly relentless. When one tactic fails, they will try another until they breach an organization's defenses. At the same time, technology is increasing an organization's vulnerability to attack through increased online presence, broader use of social media, mass adoption of mobile devices, increased usage of cloud services, and the collection and analysis of big data. Our ecosystems of digitally connected entities, people and data increase the likelihood of exposure to cybercrime in both the work and home environment. Even traditionally closed operational technology systems are now being given IP addresses, enabling cyber threats to make their way out of backoffice systems and into critical infrastructures such as power generation and transportation systems.

Anticipating cyber attacks is the only way to be ahead of cyber criminals. With our focus on you, we ask better questions about your operations, priorities and vulnerabilities. We then collaborate with you to create innovative answers that help you activate, adapt and anticipate cybercrime. Together, we help you design better outcomes and realize long-lasting results, from strategy to execution.

We believe that when organizations manage cybersecurity better, the world works better. So, if you were under cyber attack, would you ever know? Ask EY.

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The better the question. The better the answer. The better the world works.

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