

# VIRTUAL YOUNG MEMBERS MENTORSHIP PROGRAM

## IT SECURITY – ROLE OF CHARTERED ACCOUNTANTS

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# AGENDA



- **About Protiviti**
- **IT Security Risks in the Covid 19 Scenario**
- **Pillars of Information Security**
- **Typical Causes for IT Security Incidents**
- **Technology & Financial Statements – Interconnected?**
- **Role of Chartered Accountants in IT Security**

# ABOUT PROTIVITI

- A global consulting firm that helps companies solve problems in finance, technology, operations, data, analytics, governance, risk and internal audit.
- We serve more than 60 percent of FORTUNE 1000® and 35 percent of FORTUNE Global 500® companies.
- With global revenue of more than \$ 1.2 Billion (2019), having 85+ offices across 25+ countries and staff exceeding 6000+



## OUR CLIENTS

- Clients include **40% of the BSE Sensex** and over **50% of the Nifty 50** companies
- Clients in different industry segments such as Auto, Banking, Insurance, Investment Companies, Telco, Manufacturing, Logistics, Healthcare, Pharma, Hospitality, Real Estate and Construction.



## OUR PEOPLE

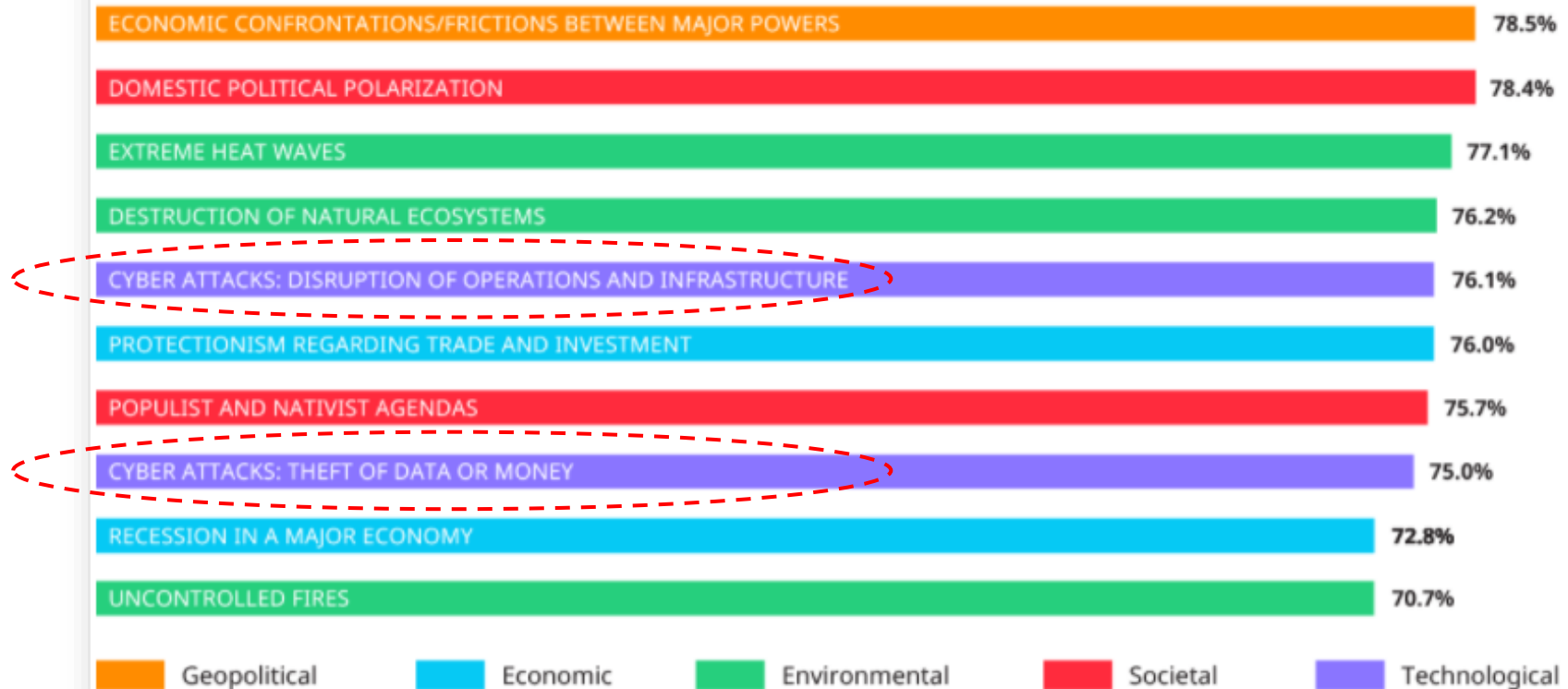
- **Employee strength 1000+** across **6 offices in India**
- Multi-disciplinary team comprises of CAs, MBAs, CIAs, CISAs, Engineers, MCAs with extensive experience and professional certifications



# TOP 10 RISKS FOR 2020

## TOP RISKS EXPECTED TO INCREASE IN 2020

Respondents to Global Risks Perception Survey (%)



Source: World Economic Forum, Global Risks Report 2020

# IT SECURITY RISKS IN THE COVID-19 SCENARIO

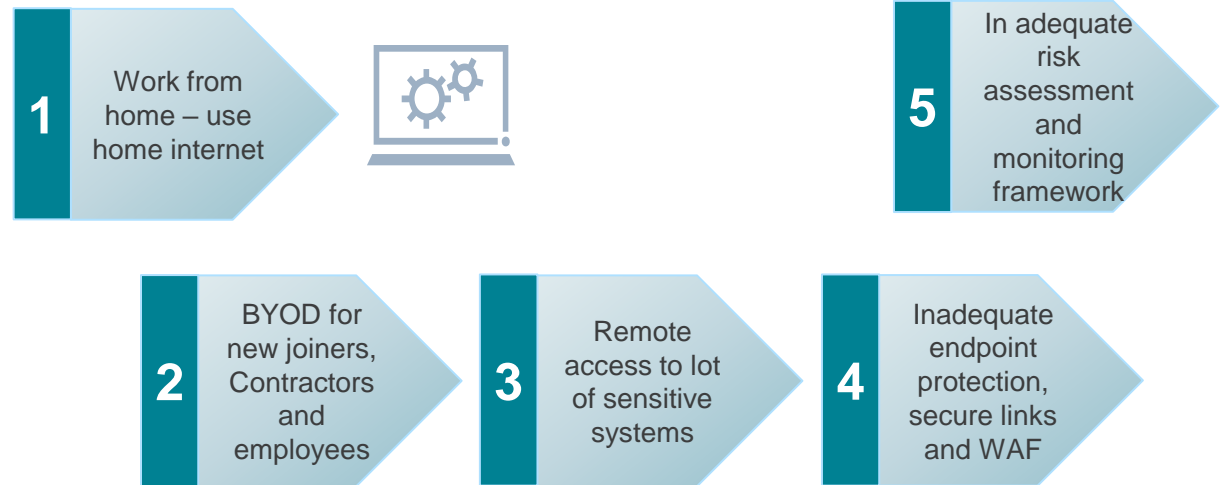


• ~ 40000 + COVID-19 phishing sites, ~ 800+ COVID-19 themed malware, service platforms disruptions, etc.

## THE NEW NORMAL ADAPTATIONS

- Work from home
- Remote access and operations
- Heavy online transacting
- Virtualized meetings
- Online collaborations

## Continuity vs. security Rapid switch over leaving chinks in the cyber armor....



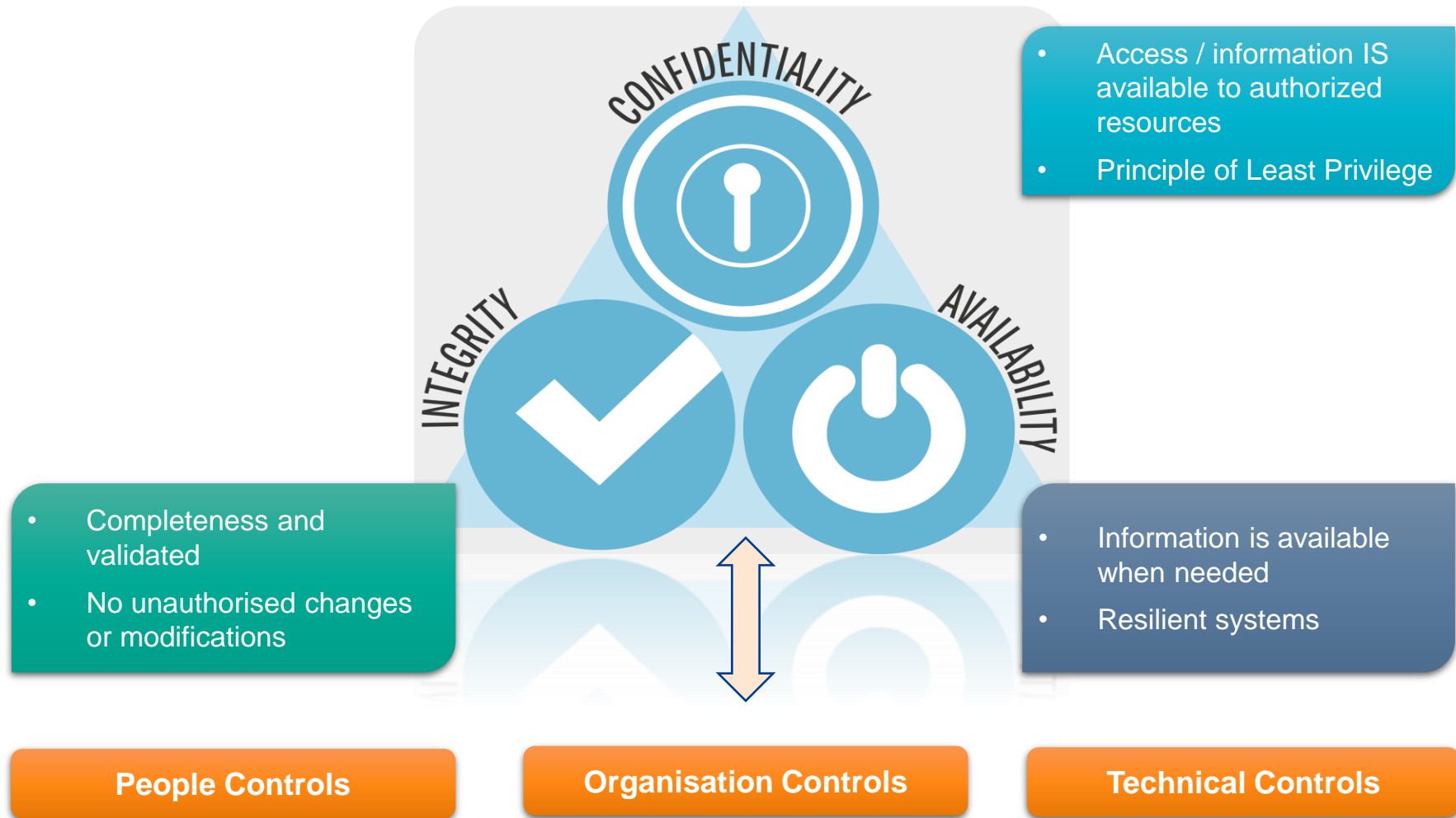
## IMPACTED TECHNOLOGIES

-  ERP's and core application
-  Industrial control Systems (ICS)
-  Cloud based Infra and Payment Gateways
-  Enterprise Mobility and Mobile banking





# PILLARS OF INFORMATION SECURITY



# ILLUSTRATIVE IT SECURITY ATTACK TECHNIQUES



## VIRUS

programs developed to perform malicious activity intend by attacker



## WORM

similar to virus, self propagate on networks



## SPAM

unsolicited bulk message, make victims mailbox overflow



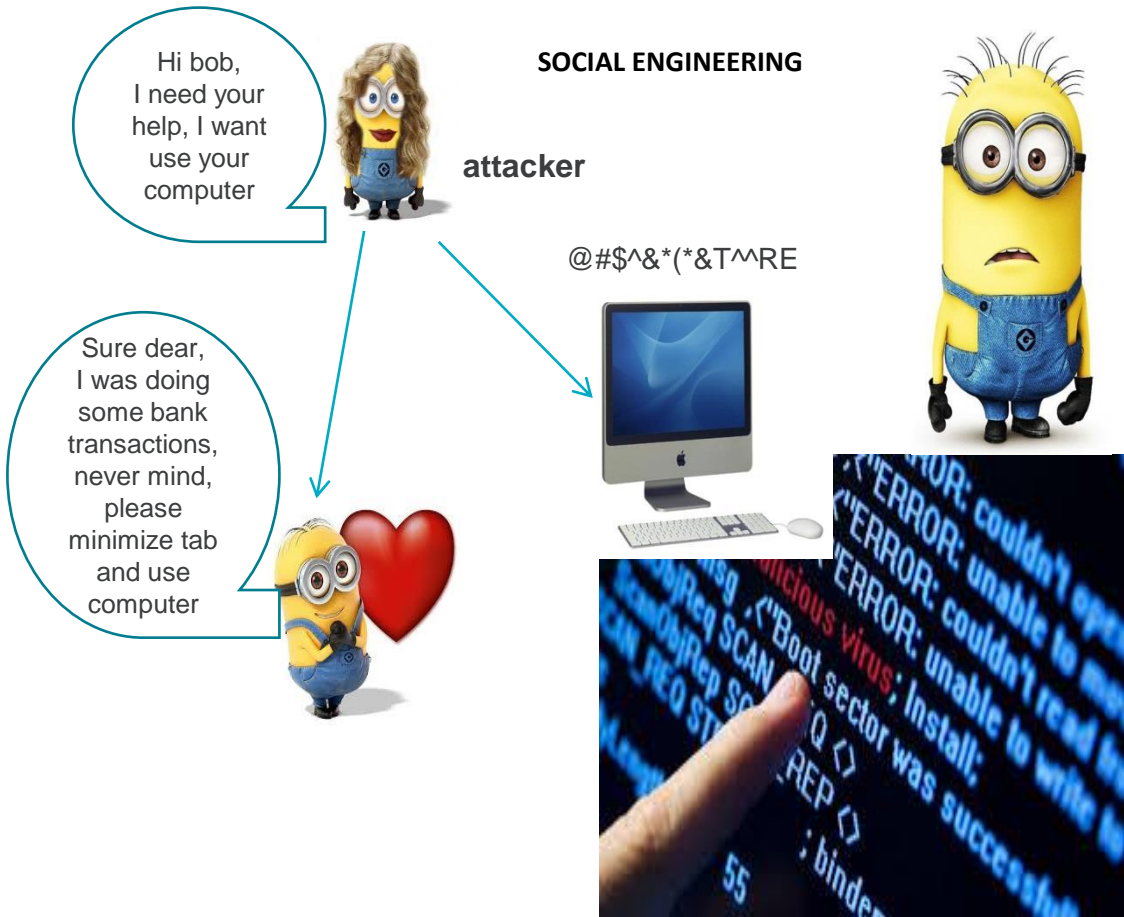
## PHISHING

email with malicious codes to steal personal information



## TROJAN

software with hidden function and provides backdoor to attackers





# TYPICAL CAUSES FOR SECURITY INCIDENTS

Lack of Security Awareness



Increased Digitization and mobility - Security was holistic

Security is an IT Issue!



Changing Threat Landscape

Organizations' Ethics and Culture (Resistance to change)



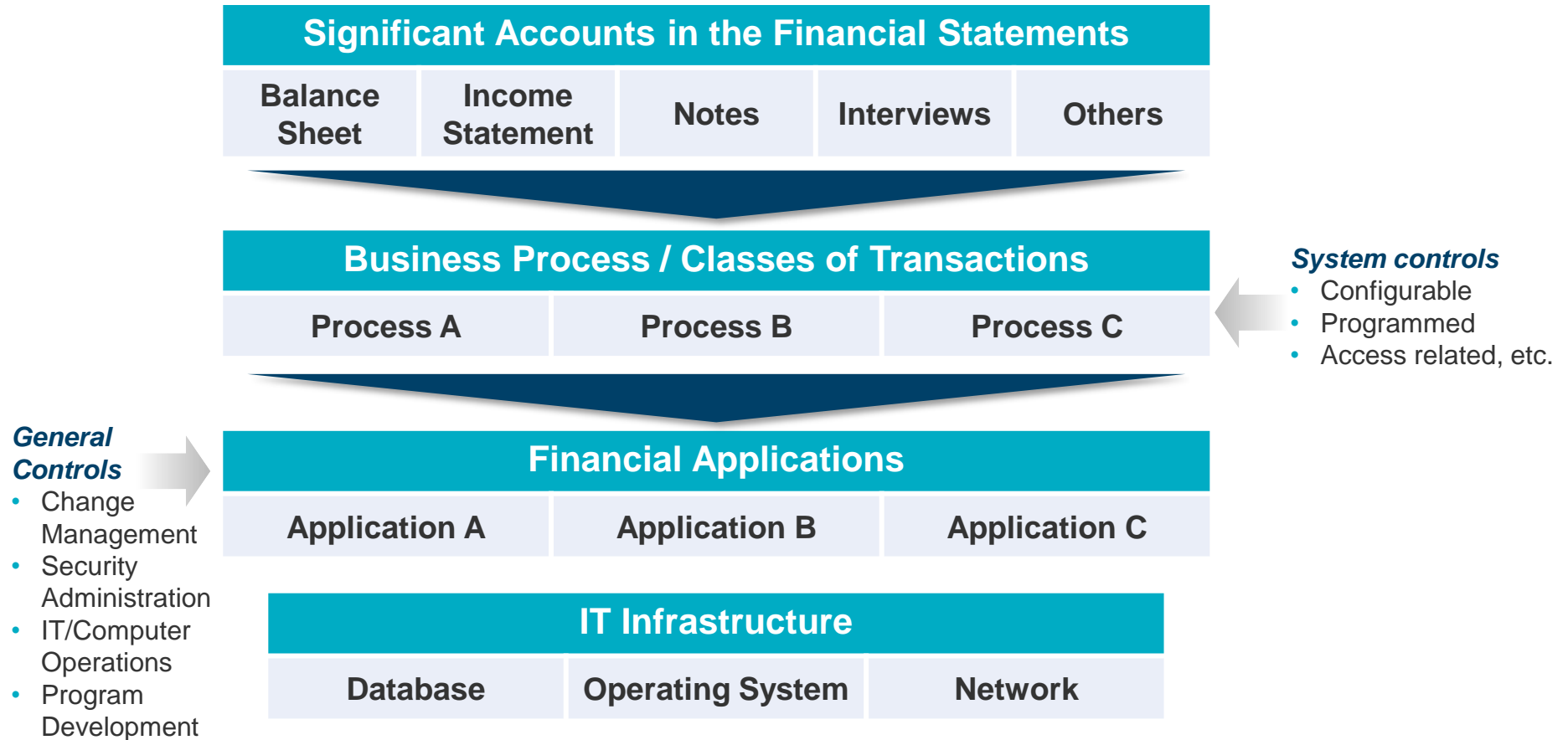
Insufficient discipline when applying controls

A teal graphic featuring a bomb with a clock inside, symbolizing timing and consequences.

It's Not If,  
But When

# TECHNOLOGY & FINANCIAL STATEMENTS – INTERCONNECTED?

*A key objective of financial statements audit is to ensure that the financial reports / figures are reliable and does not represent any mis-statement....*



# CHARTERED ACCOUNTANTS HAVE AN ACTIVE ROLE IN IT SECURITY & AUDIT....

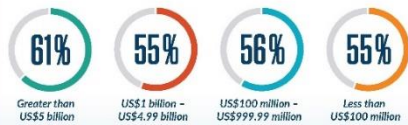
## Today's Toughest Challenges in IT Audit – Tech Partnerships, Talent, Transformation

Assessing the International Leaders in the Annual ISACA-Protiviti Global IT Audit Benchmarking Survey



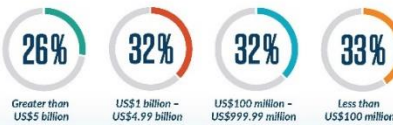
### Top Risk Factor for Strategic Technology Projects

Frequency of modifications to project goals and outcomes based on changing business requirements



### Skills and Resource Challenges Aboard

Percentage of organizations that are unable to address specific areas of the IT audit plan due to a lack of resources/skills



### Top 5 Skills in Demand

Advanced and enabling technologies	44%
Critical thinking	32%
Data science	27%
Agile methodology	20%
Communications expertise	17%

To review detailed results from the ISACA-Protiviti IT Audit Benchmarking Survey, visit [www.isaca.org/isaca-protiviti-audit-survey](http://www.isaca.org/isaca-protiviti-audit-survey) or [www.protiviti.com/ITAuditSurvey](http://www.protiviti.com/ITAuditSurvey)

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Source: 2019 IT Audit Benchmarking Study (Protiviti & ISACA)

# CHARTERED ACCOUNTANTS CAN PLAY AN ACTIVE ROLE...

As a:

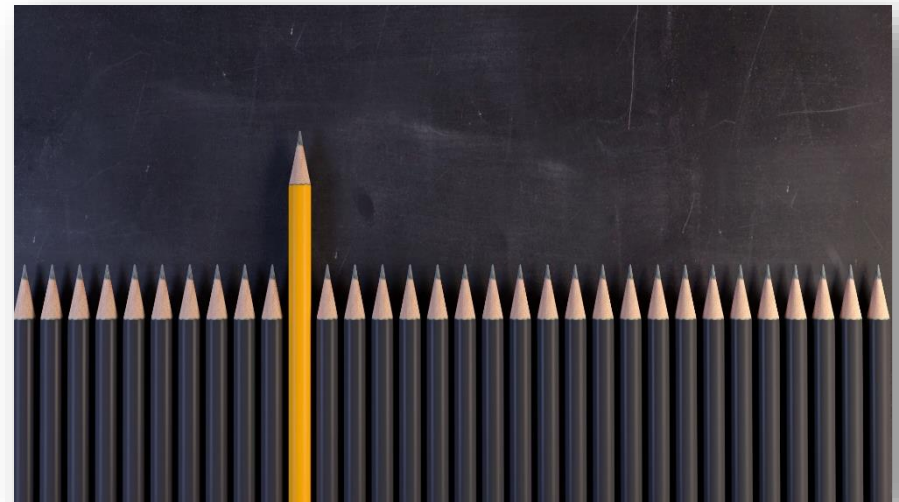
- **Board Member** – discuss cyber security issues at Board level....
- **CEO** - Ensure investments in cyber security are adequate...
- **CFO** - Embrace and Enforce Security policies and procedures....
- **CIA** - Regular assurance from internal or external auditors...
- **Risk Consultant** - Assist in identifying cyber risks, develop controls...
- **And many more roles**



Address  
“Governance  
Risk” & “Board  
Approval Risk”



Manage  
“Critical Business  
Risks” &  
“Emerging Risks”



QUESTIONS

**Thank You !**



# *Face the Future with Confidence*

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