

Internal Audit Community of Practice (IACOP) IT AUDIT: From Theory to Practice WEBINAR

IT Audit Resources and Planning



Professor Frank Yam
Chairman & CEO – Focus Strategic Group Inc

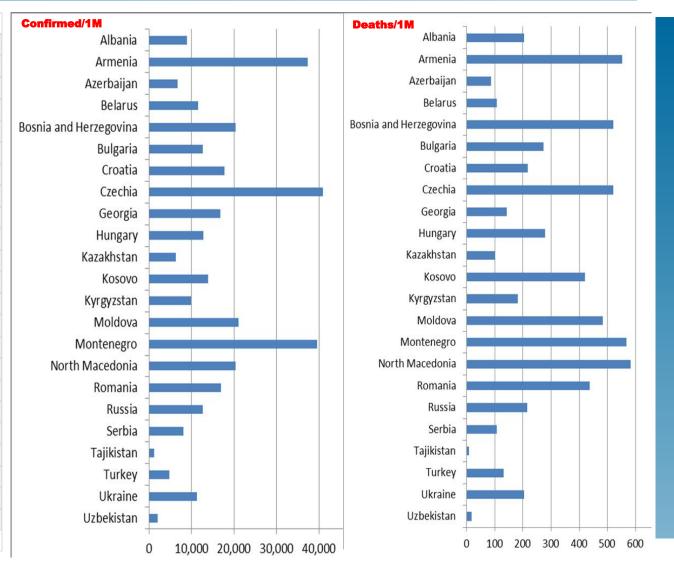
- **□** Embracing the New Normal
 - □ COVID-19
 - ☐ Impact to Internal Audit Functions
 - ☐ Everything Digified
- **□** IT Audit Resources
- **□** IT Audit Planning

3

THE NEW NORMAL

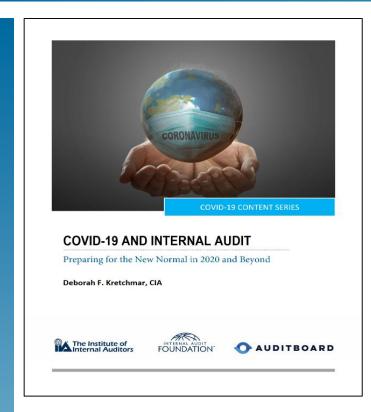
Da		CO	\/I	\Box	
PU	15 L	CU	VI	ן –ע	J

Country	Population	Confirmed/1M	Deaths/1M
<u>Albania</u>	<u>2,876,641</u>	8,969	205
<u>Armenia</u>	<u>2,965,275</u>	37,281	552
<u>Azerbaijan</u>	10,172,439	6,743	87
<u>Belarus</u>	9,448,180	11,574	108
Bosnia and Herzegovina	3,273,270	20,336	520
<u>Bulgaria</u>	<u>6,929,071</u>	12,601	274
<u>Croatia</u>	4,095,903	17,784	218
<u>Czechia</u>	10,716,269	40,948	520
Georgia	3,986,347	16,697	142
<u>Hungary</u>	<u>9,651,311</u>	12,730	279
<u>Kazakhstan</u>	<u>18,858,176</u>	6,283	101
Kosovo	<u>1,810,366</u>	13,934	421
<u>Kyrgyzstan</u>	<u>6,563,032</u>	9,806	181
<u>Moldova</u>	4,030,509	21,016	484
<u>Montenegro</u>	<u>628,095</u>	39,588	567
North Macedonia	2,083,343	20,419	582
Romania	19,190,198	16,889	437
Russia	145,957,452	12,586	216
<u>Serbia</u>	8,724,381	8,072	107
<u>Tajikistan</u>	9,614,381	1,192	9
Turkey	84,668,717	4,749	132
<u>Ukraine</u>	43,636,591	11,225	205
<u>Uzbekistan</u>	33,644,633	2,061	18
AVERAGE	19,283,677	15,369	277



THE NEW NORMAL

COVID-19's Impact to Internal Audit Functions



Top concerns, but under-represented in annual audit plans:

1) Cybersecurity

 Organizations have allowed staff to work from anywhere, placing reliance on processes and controls over cyber risks that may not be adequately assessed.

2) Information Technology

Almost 60% have added new technology and data security

3) Third-party Relationships

 Less than half (48%) have devoted IA resources to cover third-party relationships

BUT IT IS NOT JUST ABOUT COVID-19

THE NEW NORMAL Everything Digified

For Organisations:

- Staff work from anywhere
- ☐ Flexible working hours
- Staggering Schedules
- Provide PPE to staff (and even customers & guests)
- Priority on (1) Keeping everyone safe, and (2) CEM and BCP
- New strategies and initiatives (including technology-related)
- Potential layoffs





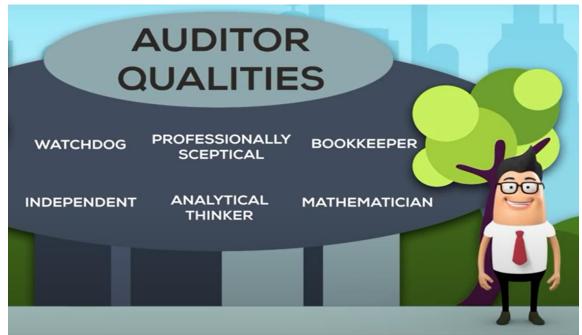
For Internal Auditors:

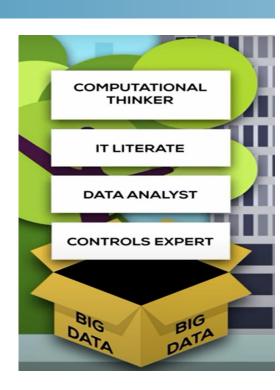
- Remote Auditing
 (teleconferencing, screen
 sharing, video conferencing, file
 sharing)
- ☐ Change in skills required as a result of digital transformation
- Unemployment and economic downturn will increase fraud risks (hence, audit focus needs to change)

IT Audit Resources

Who should we be looking for?





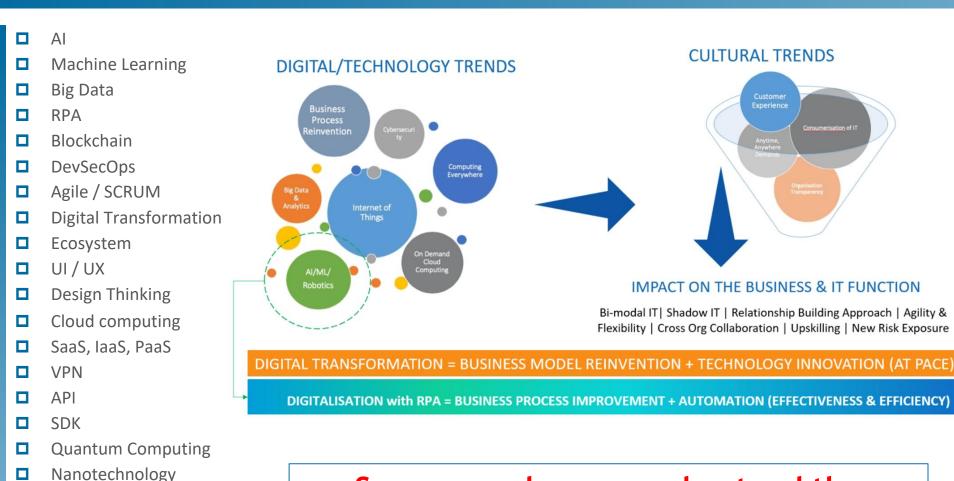


The KEY to success = building teams that can thrive in a future that can't be predicted

So Keep Empowering Yourself!

IT Audit Resources

Who should we be looking for?



Disruptive Technologies

SOC

Zoom Webex (Cisco) Teams (MS) Meet (Google) **KOL** IoT VR / AR 5G FinTech, RegTech, EdTech, HealthTech Cryptocurrency e-Wallets e-Payments **QR** codes **Drones** Chatbots 3D printing Wearables

Gig economy

Smart City /

Government Millennial

Someone who can understand the Business and IT Alignment Challenges

IT Audit Resources Who?

□ In-house Auditors

- ☐ Urgent need to up-skill and re-skill
- □ Consider Secondments
- ☐ Sharing Best Practices

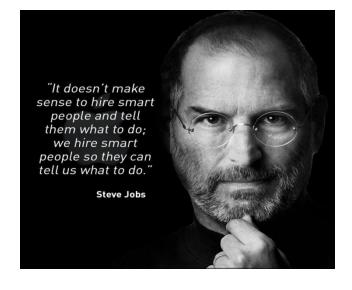


Collaboration

- Compliance
- □ Internal Control
- ☐ Risk Management
- □ Security
- Privacy
- ☐ Fraud Investigation
- □ External Audit

Co-Sourcing

- □ Technical Areas
- ☐ Periodic, As Needed
- ☐ Knowledge Transfer

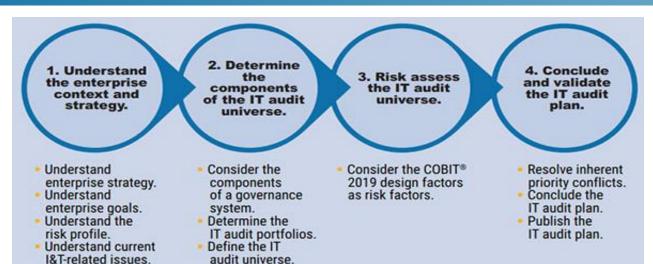


IT Audit Resources How?



IT Audit Planning







Governance System Component	IT Audit Portfolio Examples	Potential Source	
Processes	COBIT® 2019 processes	COBIT 2019 Governance and Management Objectives ¹³	
		Enterprise resource planning (ERP) system, enterprise structure documentation, organization charts Legal, privacy, security, and governance, risk and compliance (GRC) functions	
Organizational Structures	Third-party suppliers, subsidiaries, divisions of the enterprise		
Principles, Policies, Procedures	Privacy, laws, regulations and other compliance requirements		
Information	How IT audit reports its performance	Audit committee requirements	
Culture, Ethics and Behavior Audit recommendation follow-ups, new IT initiatives		Internal audit and management—scheduled recommendation completion dates, completed	
People, Skills and Competencies	Training to be undertaken by IT audit; training to be given by IT audit; audit	recommendations	
	of general IT awareness training	Training plans, personal development plans	
Services, Infrastructure and Applications	Applications, databases, websites, operating systems, virtual machines, etc.	IT asset register	

Source: ISACA Journal - 2019 May 1 - "Developing the IT Audit Plan Using COBIT 2019"

IT Audit Planning Annual Planning

- Consider adopting an Agile Portfolio Management approach
 - Embrace short-term prioritisation
 - ☐ Regular review/updates to the audit plan (to mirror the changing pace of risk and assurance needs)



- Allow for increased flexibility in the audit plan:
 - ☐ Try to assist in **new projects / initiatives**
 - ☐ This is the best time to build rapport, and to demonstrate IA's value
- □ Collaborate with key stakeholders (including the AC) to understand any new and/or elevated risks, and to assess how best to support with the provision of assurance
- Increasing the number of progress meetings held with key stakeholders across the business. Where possible use video calls to **build rapport and establish trust**.

IT Audit Planning

Annual Planning - Suggested Focus Areas

(1) Cybersecurity (Ransomware, Cyber Extortion)

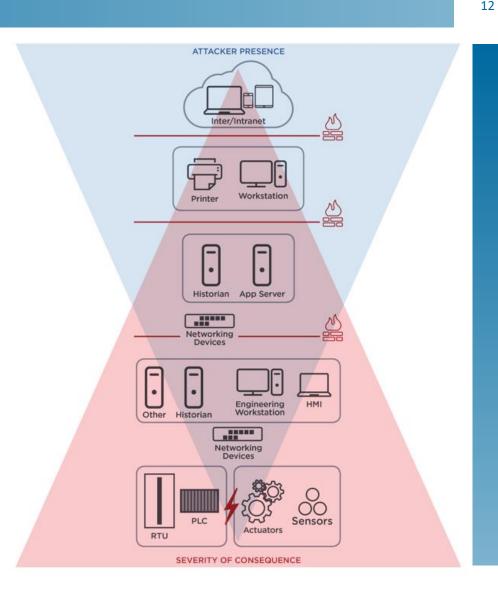
- **User Access Controls**
- Data backup and recovery
- Regulatory Requirements on Data Privacy (GDPR, etc)



Ransomware prevents you from accessing your data



Cyber Extortion - A threat to make your data public to others



IT Audit Planning

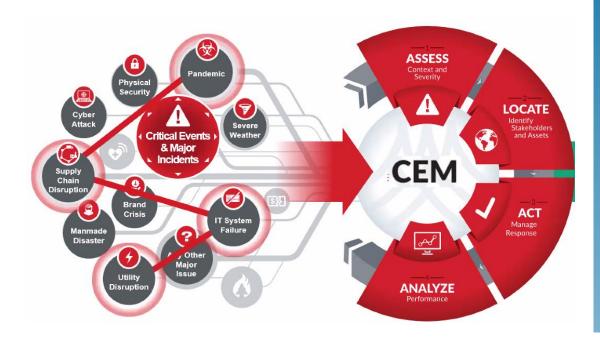
Annual Planning - Suggested Focus Areas

(2) Business Continuity

- ☐ Disaster recovery (CEM)
- ☐ Segregation of critical teams (in case of quarantines)
- Reviewing digital capabilities from transactions to customer interactions
- Re-visit BIA and "worst case scenarios"
- ☐ Media Management Plans

- (3) Review IT processes that are **NOT** governed by IT
- (4) Review existing policies, guidelines



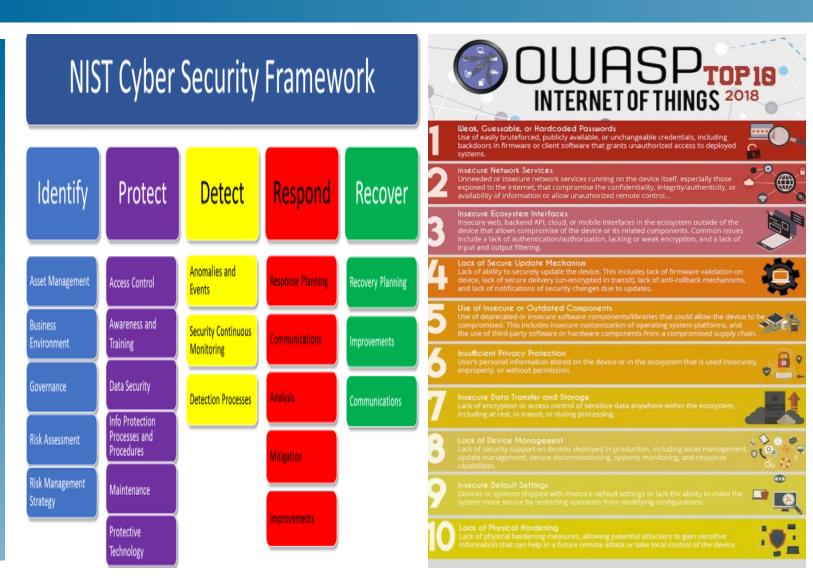


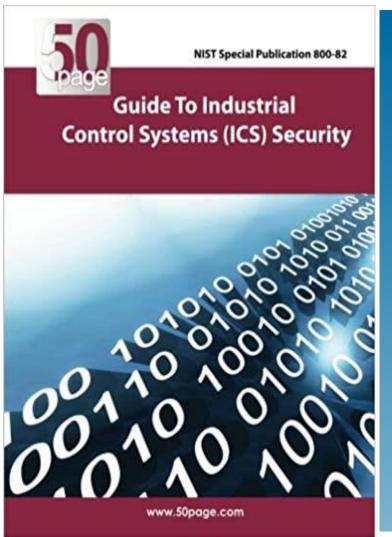
IT Audit Planning Engagement Planning

Suggested Areas of Focus:

- Feasibility of Remote Auditing
- Electronic documentation availability (+ capability to scan paper documents)
- Remote walkthroughs ('talk-throughs'), progress updates and report of emerging findings
- Availability of new technologies to deliver work, such as Microsoft Teams, Zoom, or Skype for virtual meetings/workshops (Consider recording such interactions to enhance IA evidence)
- Deployment of analytics to increase coverage, and focus on outliers
- Control override (employees seeking workarounds to existing controls in time of uncertainty)
- Increasing risks of fraud

Useful IT Audit Resources

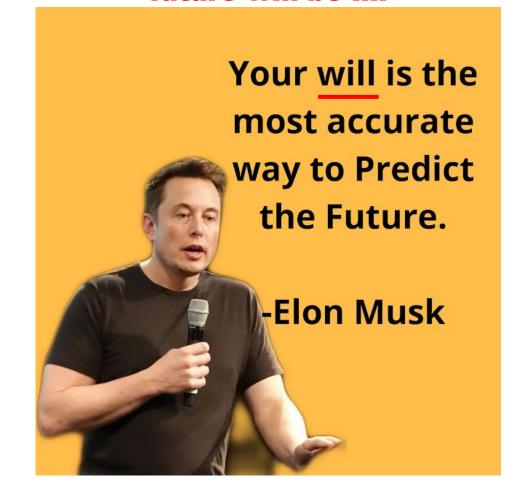




What's Next

- Auditors
 - □ Assess your skills fit (vs the Future)
- Audit Leaders
 - □ Invest in RPA and AI
 - ☐ Recruit and empower "digital-savvy" employees
- Governments / Organisations
 - □ Prepare for dramatic shifts in work and workforce distribution patterns
 - ☐ Embrace Technologies, and Digital Transformation
 - ☐ Focus on UI / UX

No one knows what the digital future will be



THANK YOU!