Cyber risk & cyber security

Cyber Risk is the likelihood of financial loss, regulatory non-compliance, reputational damage and disruption of service as a result of cyber-attacks.

Cyber security which encompasses people and technology aims to protect digital information by preventing, detecting, and responding to attacks. Management of Cyber risk requires collaboration amongst all stakeholders that include the Board, C-suite, business units, IT and Security teams, as well as Auditors.

Cyber is a Business Risk
What the CPAs are saying?

When asked how they are using technological tools and techniques on audits today, of the auditors in the audience:

- **53%** had applied technological tools and techniques in isolated areas of the audit
- **40%** are using them in all areas of the audit

Source: Chartered Professional Accountants of Canada (CPA Canada) and the Institute of Chartered Accountants of Scotland’s (ICAS) Future of Assurance Symposium

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Emerging technologies and their impact

- **Public Cloud** platforms provide businesses on-demand compute and storage capacity and provide the ability to quickly stand up application environments to meet demands in a more elastic and agile fashion.

- **Big Data** collects, organizes and manages an enterprise’s data in a more research friendly way. There is an increased requirement for managing data lineage and accuracy as well as monitoring privacy and the right to be forgotten.

- **AI** is the simulation of intelligence processes such as learning, reasoning, and self-correction. The system learns from past experience to determine next steps. Use cases include credit and market risk underwriting, anti-money laundering and fraud monitoring.

- **Application Programming Interface (APIs)** are reusable software interfaces that facilitate the exchange of data and services between applications. APIs play a key role in enabling the integration between legacy and modern services within and outside the organization.

- **DevOps** is an evolving software delivery approach where software developers work closely with the operations team using tools and agile methodology resulting in faster application and services delivery. The use of this methodology blurs traditional roles and responsibilities between development and production operations teams.

- **RPA** leverages user-friendly applications to build software robots that can be quickly trained and deployed to automate manual tasks across various business processes.
The future auditor has evolving demands

Automation
Data-driven
Subject-matter
Staying Relevant
Relationship-building
IT-transformation
Cost-efficiency
Adding value
Risk-based
experts

IT Auditor: Traditional vs. Future
Concluding thoughts

• Never has there been a better time to be in this profession

• Demand is high and supply is low

• Attitude, Aptitude and a continuous learning mindset

• Luck is when preparation meets opportunity

Are you ready?