



BEMSZ - KPMG IT Internal Audit Planning for 2021 Key domains and risks to focus on now

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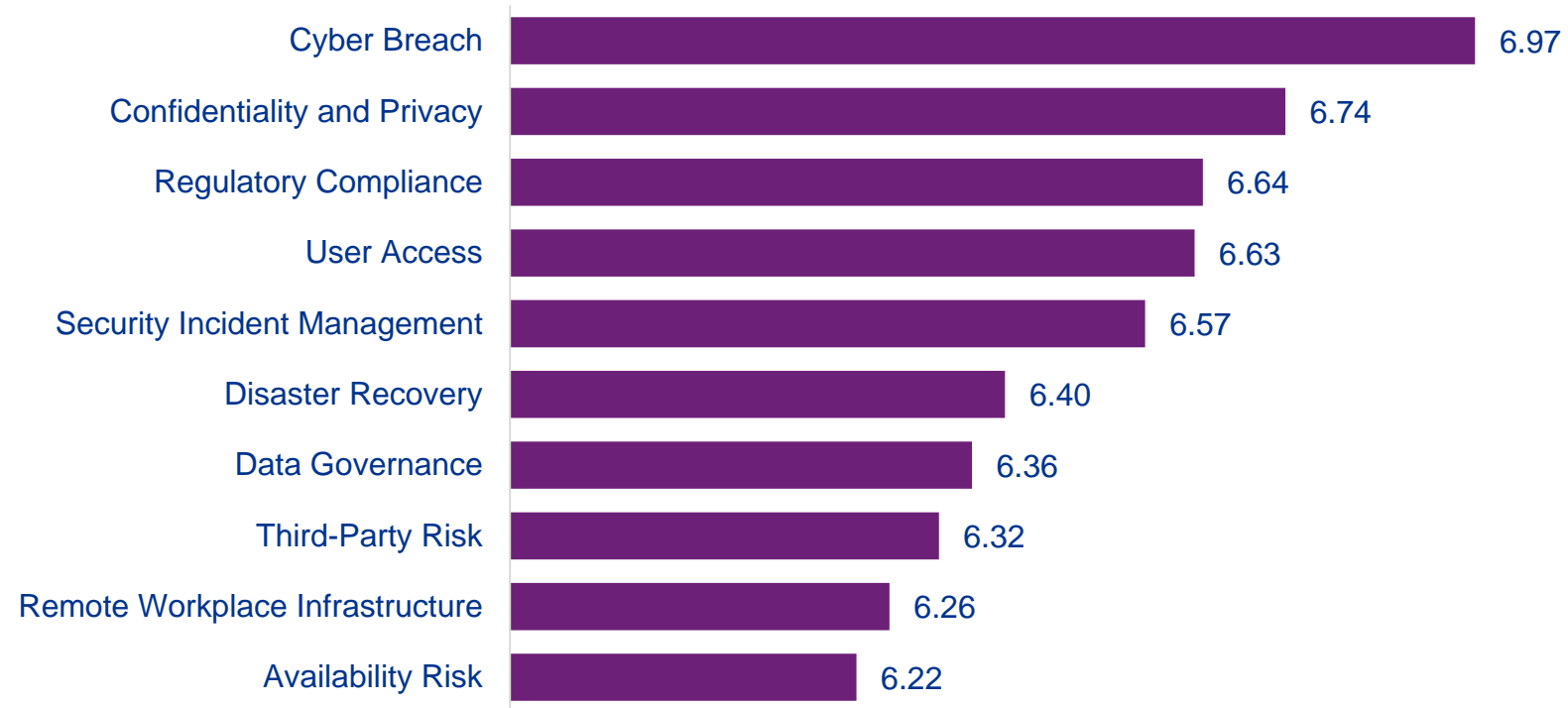




Top technology risks 2021

Top technology risks for 2021

Global top 10 technology risks for 2021*



*About our top technology risks scale: Respondents were asked to rate the significance of 39 technology risk issues on a scale of 1 to 10. Based on their organization's technology risk assessment, with "1" representing low impact to the organizations and "10" representing extensive impact to the organization. Data points represent the mean score.

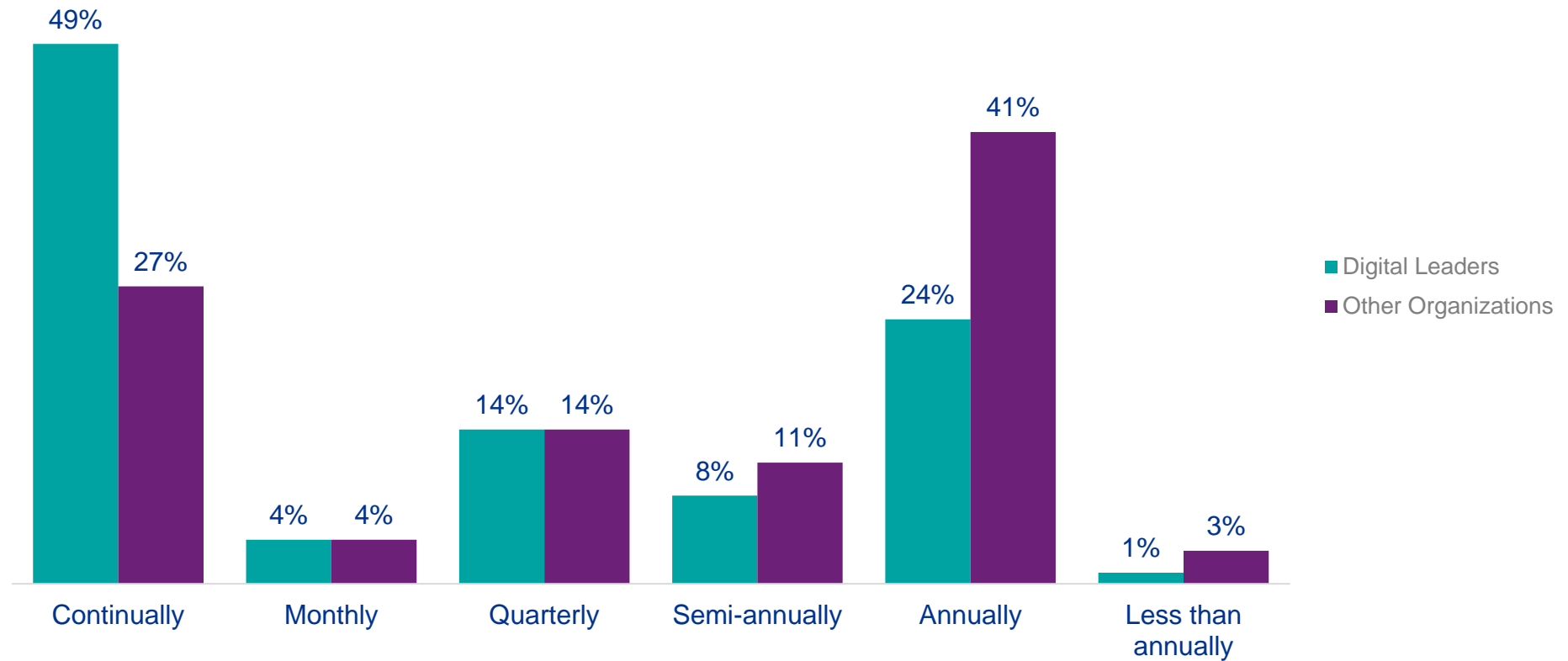
Source: Isaca: *IT Audit's Perspectives on the Top Technology Risks for 2021*, <https://www.isaca.org/go/2020-isaca-protiviti-global-it-audit-benchmarking-survey>



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Frequency of Technology Risk Assessments

How often does the process to identify and assess technology risk occur within the organization?



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Key domains and risks 2021

Key domains and risks to focus on now

The year 2020 has been a year of significant challenge and transformation that has presented **IT** and **Internal Audit (IA)** with complex operational and risk management challenges that have disrupted the status quo. While our ways of working have changed, organizations are still advancing complex transformational activities that present new challenges to the IT Internal Auditor to stay relevant and provide value to the organization. A challenge IA functions have always had and even more so going deep into 2021, with a limited budget and resources, is how to best prioritize where your Internal Auditors spend their time. KPMG surveyed IT Internal Audit leaders across the globe to help identify areas believed to be highest impact and share ideas on how the IT Internal Audit function can add value and be relevant in the new reality.

This presentation will highlight **key risk areas** and potential **IT Internal Audit activities** based on our survey around the following domains:

- Accelerated plans to adopt emerging technology and automation
- Cybersecurity
- Business change
- Core IT operations/critical infrastructure



Accelerated plans to adopt emerging technology and automation 1

Risk:

- More adoption of cloud technologies

IT audit activity:

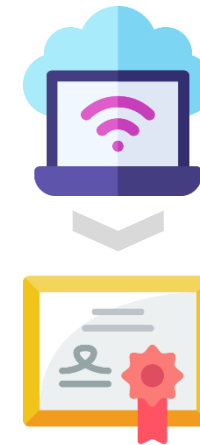
- Cloud strategy and framework
- Cloud adoption, onboarding, and implementation
- Cloud security

Risk:

- Third-party risk management

IT audit activity:

- Third-party risk management
- Vendor risk assessment
- IT vendor cyber resiliency
- Contract compliance program



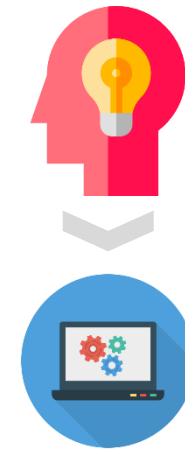
Accelerated plans to adopt emerging technology and automation 2

Risk:

- Widespread and accelerated adoption of sophisticated workplace automation
- For example: automation / bots / cognitive learning / AI

IT audit activity:

- Assess governance program / lifecycle
- Automating
- KPI assessment
- Intelligent automation integrity



Cybersecurity / Information security 1

Risk:

- Industry-wide deficiency of cybersecurity skills, within IT and broader workforce

IT audit activity:

- Cybersecurity process/cyber cost optimization

Risk:

- Data privacy and protection

IT audit activity:

- Enterprise-wide privacy program
- Data management and governance audit



Cybersecurity / Information security 2

Risk:

- Understanding of cyber implications with new workforce model

IT audit activity:

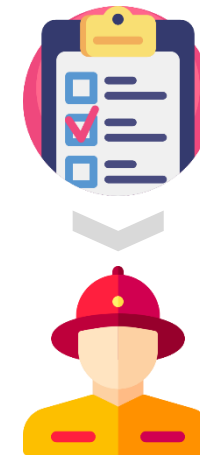
- Cyber awareness/training program
- Fraud assessment
- Insider threat

Risk:

- Access management

IT audit activity:

- IAM governance program
- IAM implementation readiness assessment
- Privileged access



Business change

Risk:

- Return to office

IT audit activity:

- Assess the scalability and capacity of remote IT service management
- Assess technology implications of return-to-office framework/strategies

Risk:

- DevOps / Agile

IT audit activity:

- Evaluate DevOps strategy, governance, and training
- Assess integration of security in the DevOps process
- Assess possible segregation of duties (SOD) concerns and mitigation
- Review key tools supporting the CI/CD (Continuous Integration / Continuous Delivery) process



Core IT operations / critical infrastructure

Risk:

- Resilience and recovery or service / availability

IT audit activity:

- Assess investment process for updating legacy systems and infrastructure
- Assess dependencies between internal and third parties
- Review communication plans
- Disaster recovery system architecture design assessment
- Ransomware resilience
- Business impact assessment regarding loss of site and loss of key technology





Thank you



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