



# Leadership Series

IT Governance and Cyber Risks  
in Internal Audit

Calgary  
May 21, 2026

© 2026 Deloitte LLP and affiliated entities.



# Introduction

In the meeting with you today...



**Xavier Tessier**

Director

National IT Internal Audit Leader,  
Internal Audit



**Nicolo' Perin**

Assistant Manager

Regional IT Internal Audit Lead,  
Internal Audit



# Agenda

01

## IT Governance & Digital Transformation

- IT Governance Overview
- IT Governance impacts on Digital Transformation
- Digital Transformation and Governance Investments

02

## Cybersecurity & Technology hot themes

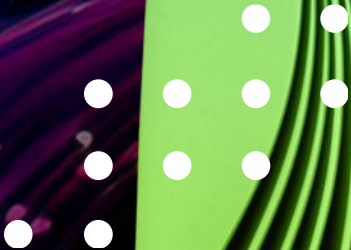
- Key IT & Cyber Risks – Hot themes
- The impact on Internal Audit

03

## Case-study

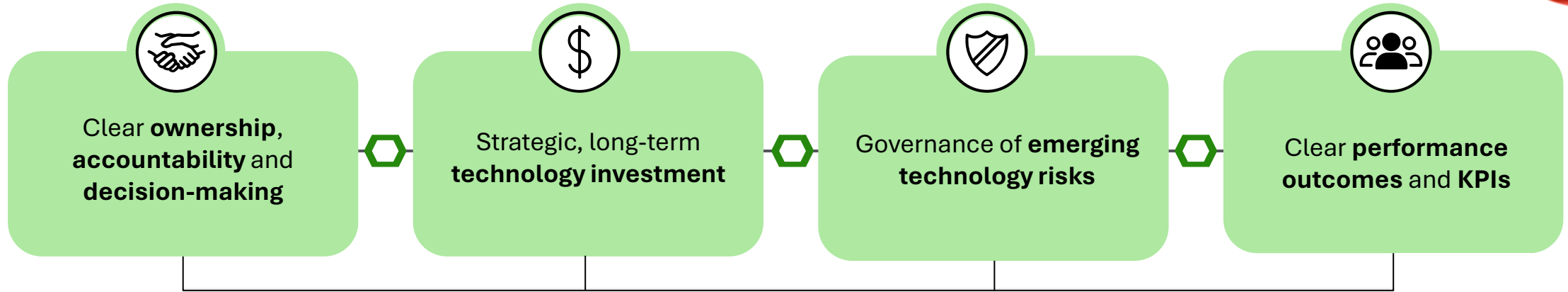
- Cloud Governance and Internal Audit capabilities

# IT Governance & Digital Transformation

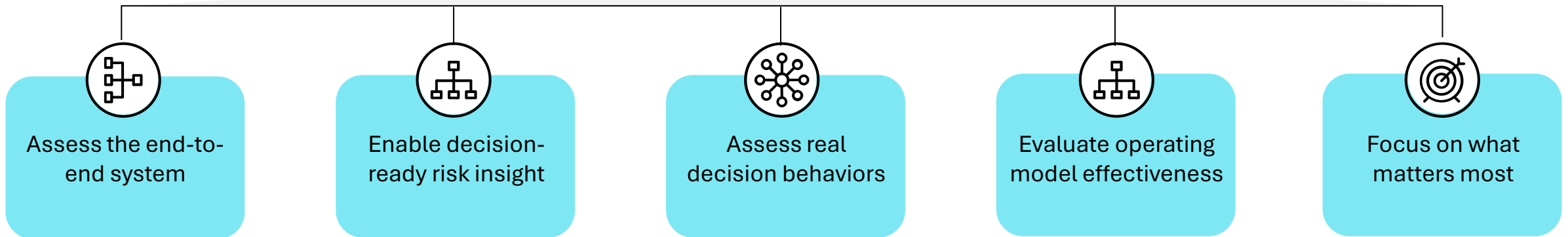


# IT Governance: A Leadership Imperative

## What effective IT governance addresses



## How Internal Audit enables effective IT governance

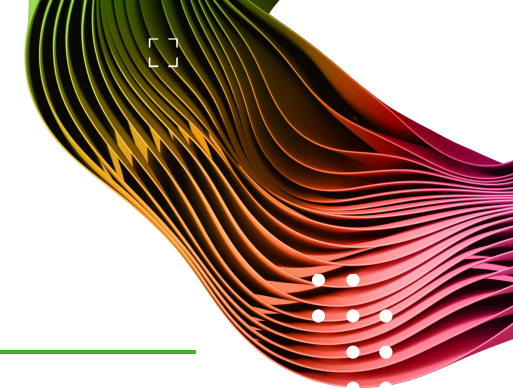


# Benefit across the organization

## Key value drivers of IT Governance



# Maximizing Value from Digital Transformation Through Effective IT Governance



- 01 Strategic Impact**
  - Ensures digital initiatives are **aligned with business strategy**
  - Prioritizes investments with highest **business value**
  - Transforms IT from a support function to a **value driver**
- 02 Operational Impact**
  - Establishes **clear decision-making and accountability**
  - Improves coordination across **business and IT functions**
  - Enables **consistent execution** of transformation initiatives
  - Accelerates delivery by reducing rework and misalignment
- 03 Risk & Control Impact**
  - Embeds **risk management and compliance** into digital initiatives
  - Reduces failure risk of new technologies and implementations
  - Ensures **secure, controlled adoption** of cloud, AI, and digital tools

## Value Realization

- Improves **visibility over value delivered** by digital investments
- Enables **performance measurement** (KPIs, benefits tracking)
- Supports **consistent execution** and **scalability of transformation initiatives**
- **Strengthens control** over change and **reduces implementation risk**

IT governance enables more structured and controlled execution of digital transformation initiatives

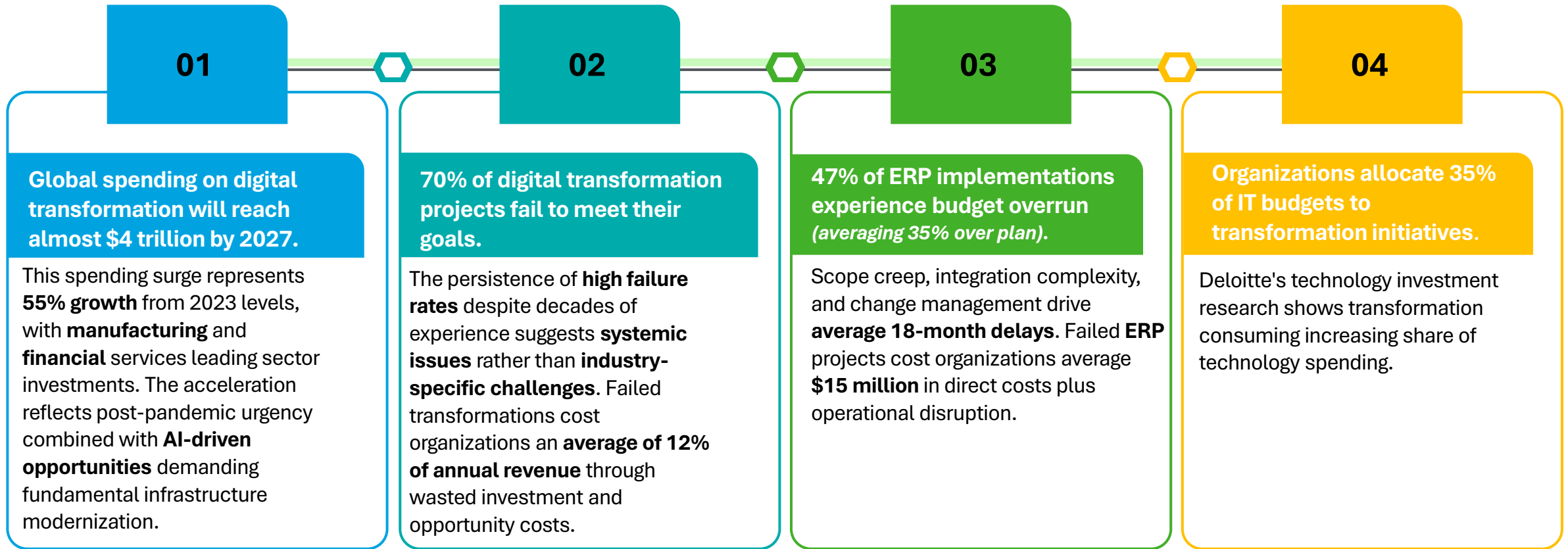
**!** Without effective governance, digital transformation initiatives may lead to increased costs and inefficiencies

### IT Governance & Investment Impact (Deloitte Insights)

- Up to \$1.25T value unlocked with aligned strategy
- \$1.5T at risk with poor execution
- 75% of leaders struggle to measure transformation value
- +20% improvement in value realization with structured KPIs

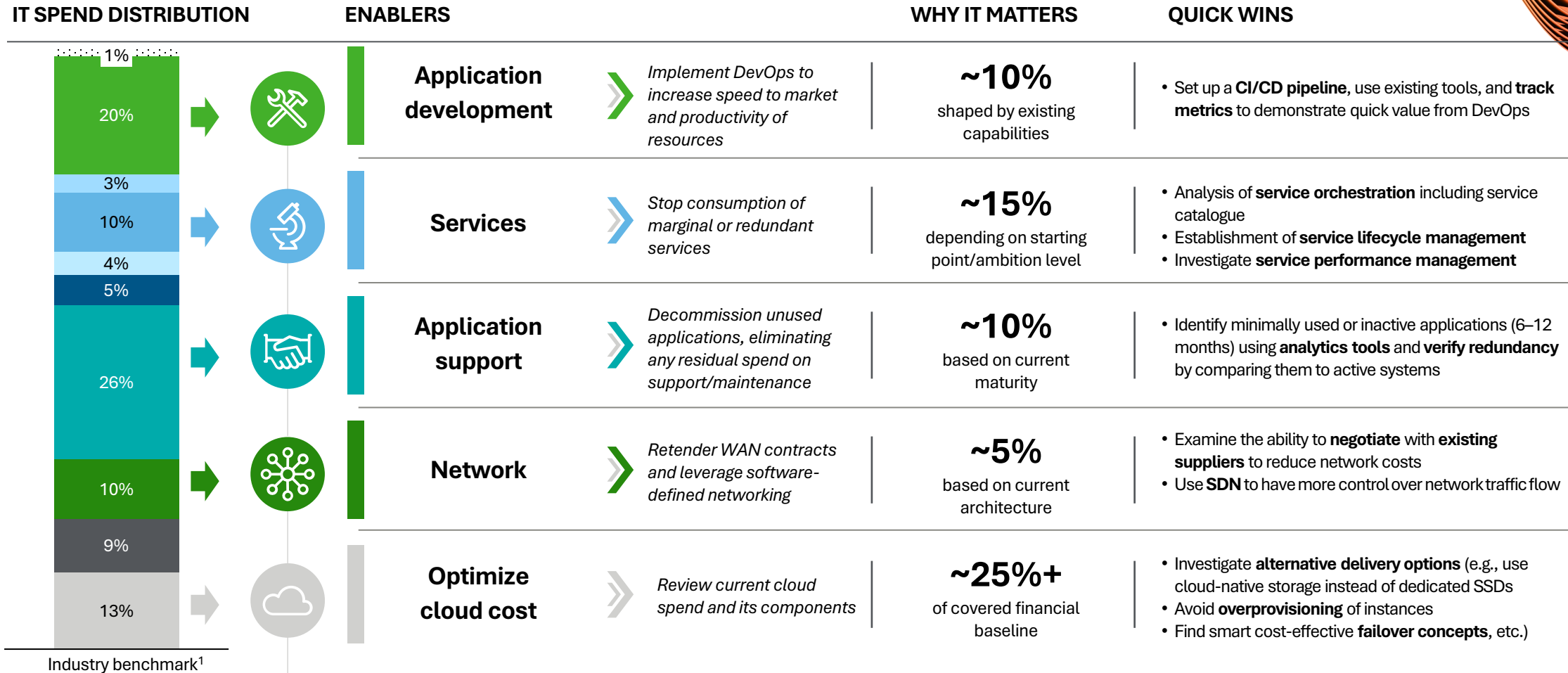
# Overview on IT spending - Stats and Facts

According to multiple research and analyst reports, transformation projects and IT Implementations still represent a challenge for today's organizations. This is why Internal audit must play a key role in supporting organizations to increase the success rate of such initiatives.



Reference: [Data Transformation Challenge Statistics — 50 Statistics Every Technology Leader Should Know in 2025 | Integrate.io](https://www.integrate.io/blog/data-transformation-challenge-statistics-50-statistics-every-technology-leader-should-know-in-2025)

# IT spending by IT technical function and savings potential



**Legend:**

- IT service continuity
- Application development
- IT operations management
- Digital workplace services
- IT service desk
- IT security
- Application support
- Network
- Governance and business mgmt.
- Data center/hosting (internal and external)

<sup>1</sup> Gartner IT Key Metrics 2025 Industrial Manufacturing (2024)

# Digital transformation future scenarios

“Digital spending is growing rapidly, potentially reaching over 30% of revenue by 2028”



Digital spending is shifting away from IT ownership toward business-led investments

This creates a significant governance challenge, reinforcing the need for strong IT governance to ensure investments are controlled, and delivering value.

Even if it's “non-IT budget”, IT governance is **STILL** critical because:

**01 Technology is still IT-dependent**

Even if funded outside IT: cloud systems; data platforms; applications integrations

**All depend on:** IT architecture; cybersecurity data governance; infrastructure

**So:** → Digital can not be decoupled from IT governance

**03 Increasing risk exposure**

Business-led tech adoption often bypasses: security reviews; compliance processes; testing

**Result:** cyber risk, regulatory risk; operational failures

**So:** → IT governance ensures control and risk management

**02 Harder cost control**

If budgets sit outside IT: reduced visibility; lack of centralized prioritization; overlapping investments

**Result:** wasted spend; poor ROI

**So:** → IT governance provides investment discipline and oversight

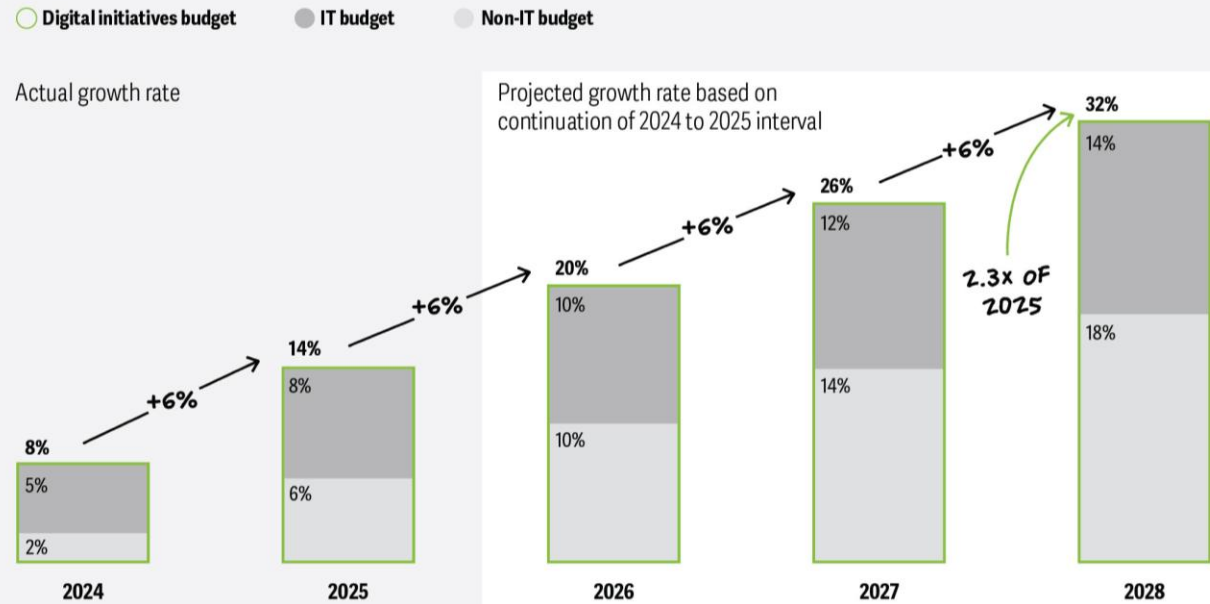
**04 Unclear value realization**

Without centralized governance: no unified KPIs; no benefits tracking; no prioritization

**So:** → IT governance ensures ROI tracking and value realization

## At the current pace of growth, digital budgets would reach 32% of revenue by 2028

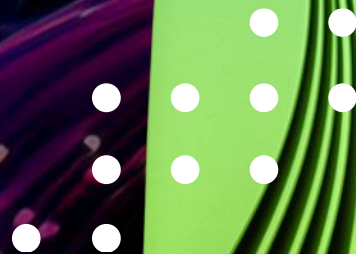
Question: Please provide the following information on your organization's annual revenue, IT budget, and digital transformation budget to the nearest whole 100 million or whole billion



Note: Percentages might differ due to rounding off base dollar values.

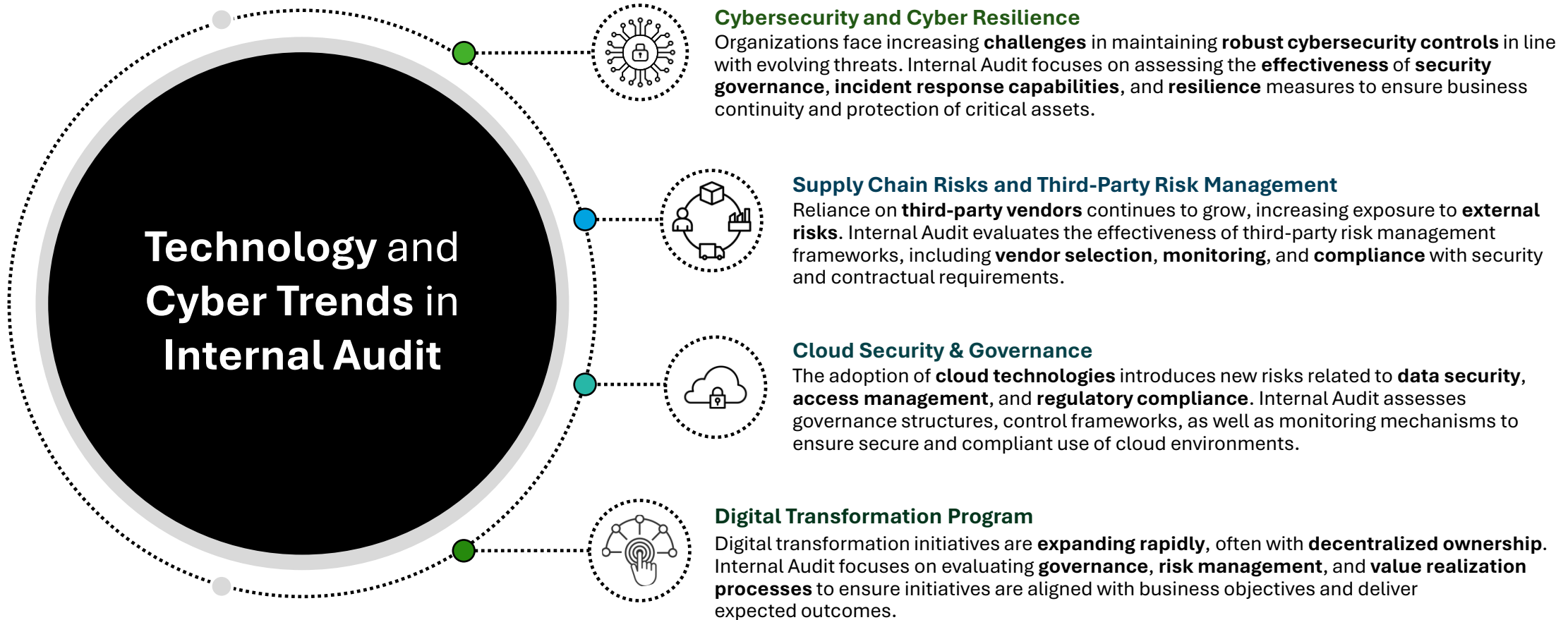
Source: Deloitte Center for Integrated Research analysis of data collected from May to June 2025 from US business and technology leaders.

# Technology and Cyber Risks in Internal Audit



# Technology and Cyber Trends Driving Internal Audit Risk Focus

The establishment of an effective technology and digital framework represents one of the biggest areas of both risk and opportunity for organizations. Optimized frameworks can deliver cost reductions, support management of risks in line with appetite, and enable innovation and delivery of strategic goals. This is particularly important in the cost constrained environment in which many organizations currently operate. A general overview of the technology and cyber risks in Internal Audit is shown below.



# The Cybersecurity and Cyber Resilience Threat Landscape



## 5 Key Risks in 2026

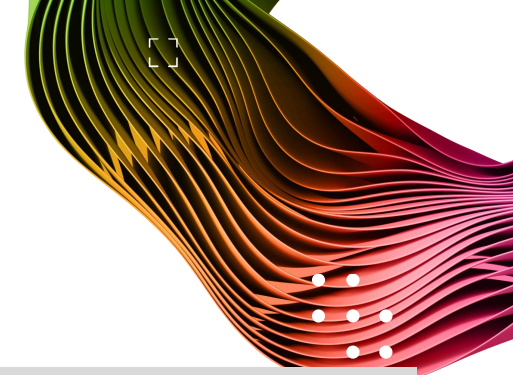
- 01 AI-Transformed Threat Landscape**  
Generative AI accelerates attack velocity, enables deepfakes & autonomous phishing at scale
- 02 Human Error**  
Social engineering, insider threats & credential misuse remain the #1 breach vector
- 03 Supply Chain Attacks**  
Third-party & software supply chain compromises targeting interconnected ecosystems
- 04 IoT & OT Attack Surface**  
Expanding connected device landscape with legacy OT systems lacking modern controls
- 05 IIA Topical Requirements**  
New mandatory cybersecurity standards from the Institute of Internal Auditors



## INTERNAL AUDIT RESPONSE

### 5 Actions IA Should Take

- Assess Cybersecurity Program Maturity**  
Evaluate controls against NIST CSF, ISO 27001 & CIS benchmarks; identify gaps
- Supply Chain Security Audits**  
Assess third-party risk management programs & software bill of materials (SBOM)
- Audit AI-Enabled Attack Vectors**  
Review AI governance, deepfake detection controls & automated threat response
- Ransomware Threat Response Readiness**  
Test incident response plans, backups, BCP & tabletop exercise effectiveness, but also include access-controls and identity management.
- IIA Cyber Topical Requirement Compliance**  
Ensure IA activity meets mandatory IIA cybersecurity topical requirement standards



# Supply Chain Risks and Third-Party Risk Management



## 5 Key Risks in 2026

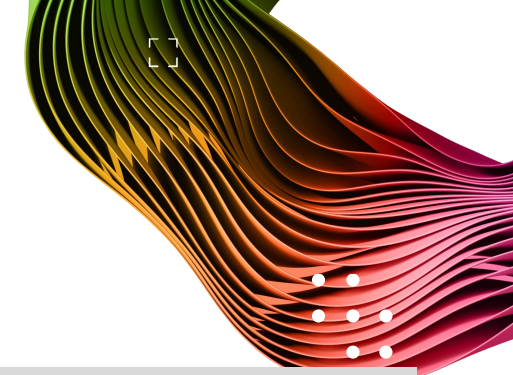
- 01 Intensified Regulation**  
Expanding FS regulations (e.g., DORA, CTP) are driving the need for more robust, standardized, and resilient TPRM frameworks.
- 02 Emerging AI risks**  
Increased GenAI adoption in third-party ecosystems is elevating risks across data, cybersecurity, privacy, and ethics.
- 03 Operational Resilience Integration**  
TPRM is being embedded into resilience frameworks to ensure third-party disruptions remain within impact tolerance.
- 04 Shift to Risk Intelligence**  
Organizations are transitioning from self-attestation to analytics-driven risk intelligence for proactive risk management.
- 05 Expansion to fourth-party risk**  
Effective risk management now requires visibility into fourth-party dependencies and interconnected ecosystem risks.



## INTERNAL AUDIT RESPONSE

### 5 Actions IA Should Take

- Respond to regulatory change**  
Align audit plans and TPRM assurance with evolving regulatory expectations and governance requirements.
- Assess AI third-party risks**  
Provide independent assurance over controls addressing AI risks in third-party relationships.
- Evaluate resilience alignment**  
Assess whether TPRM supports operational resilience, including stress testing, BCP, and exit planning.
- Validate risk intelligence**  
Evaluate the effectiveness of analytics-driven risk intelligence versus traditional attestation approaches.
- Strengthen fourth-party oversight**  
Assess whether fourth-party risks are effectively identified, monitored, and governed within TPRM frameworks.



# Cloud Security & Governance



## 5 Key Risks in 2026

01

### Data sovereignty risks

Geopolitical tensions and regional regulations are driving cloud fragmentation and increasing risks related to data residency, access, and vendor lock-in.

02

### Cloud sustainability imperative

ESG expectations are embedding sustainability considerations—such as carbon footprint and ethical sourcing—into cloud strategies and provider selection.

03

### Evolving regulations

Expanding data security and privacy regulations (e.g., GDPR, NIS2) are increasing compliance obligations for cloud environments.

04

### Cloud supply chain risks

Dependence on cloud providers is creating concentration risk, requiring stronger vendor diversification and resilience strategies.

05

### Cloud cost management

Ineffective cloud cost governance can lead to rapid cost escalation, necessitating structured monitoring and optimization practices.



## INTERNAL AUDIT RESPONSE

### 5 Actions IA Should Take

#### Assess geopolitical risks

Evaluate exposure to geopolitical and data sovereignty risks across cloud providers, including vendor concentration and service disruption scenarios.

#### Integrate ESG into audits

Incorporate ESG considerations into cloud audits, assessing alignment with sustainability objectives and provider practices.

#### Enhance security and privacy assurance

Strengthen assurance over cloud data security, privacy controls, and compliance with evolving regulatory requirements.

#### Review supply chain resilience

Assess the resilience of cloud supply chains, including vendor diversification, contractual protections, and mitigation strategies.

#### Evaluate cloud cost governance:

Review cloud cost management practices to identify inefficiencies and ensure effective monitoring, optimization, and accountability.

# Digital Transformation Program



## 4 Key Risks in 2026

01

### Lack of preparation for a as-a-service transition

The rapid adoption of "as-a-service" solutions can leave customers and support unprepared, leading to change programmes not meeting their objectives during the transition to live operation

02

### Over-reliance on third-party to deliver transformation

Agile and value stream change delivery methods drive innovation, retaining in-house expertise remains a challenge

03

### Lack in identifying clear requirements and benefits

Many change programmes struggle to fully realise their objectives during the transition to business-as-usual (BAU)

04

### Focus solely on effective cost-management and schedule

Risk managers and change assurance teams should identify and track the critical success factors, such as achieving clear outcomes for customers, employees, and regulators.



## INTERNAL AUDIT RESPONSE

### 4 Actions IA Should Take

#### Challenge the alignment with the strategy

Challenge the approach to strategic prioritization and portfolio management to ensure alignment with strategic objectives and regulatory compliance.

#### Audit the governance

Evaluate risks at portfolio-level to provide assurance over the business strategy, challenge existing practices, and to proactively assess the risks of inaction, with a stronger emphasis on governance oversight.

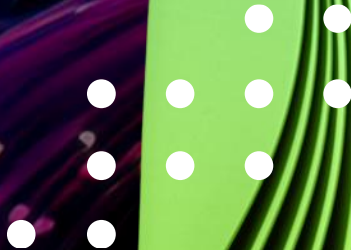
#### Be proactive

Adopt a more proactive approach of embedding audit resources within programs and portfolio to give real-time risk assessment, timely challenge, and value-added feedback.

#### Build relationships

Implement clear and transparent communication with programme managers to obtain relevant data and decision-making documents and evidences

# Case Study



# Case Study

## Case Study 1

### The Vendor's Vendor Incident" — Third-Party + Ecosystem Risk (4th/5th party)



#### Storyline

*A critical vendor uses a managed file transfer tool. A vulnerability in that tool is exploited, and the organization's data is exfiltrated through the vendor ecosystem. You didn't even know that tool existed in your supply chain.*

#### Internal Audit Objectives:

- 1) Determine whether the organization effectively manages third-party risks across the vendor lifecycle, including onboarding, contracting, and ongoing oversight, in alignment with defined risk appetite and policy expectations.
- 2) Assess whether the organization has **sufficient visibility** and **governance** over **critical third-party dependencies**, including extended supply chain relationships, to identify and manage associated risks.
- 3) Evaluate whether **vulnerability management expectations** for third parties are clearly defined, enforced, and supported by evidence, including timely remediation and appropriate handling of exceptions.
- 4) Assess whether **incident response roles, processes, and communication protocols** with third parties are clearly defined, coordinated, and effective in supporting timely detection, response, and regulatory compliance.

## Case Study 2

### The Cloud Storage Exposure" — Cyber Resilience + Cloud Governance



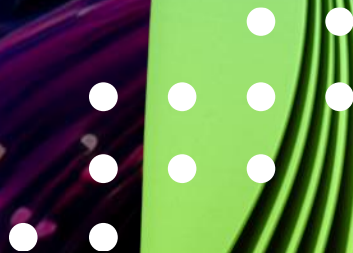
#### Storyline

*A business unit accelerates a cloud migration and stands up several storage containers for analytics. A partner later reports that sensitive files were accessible due to an access misconfiguration and poor key/secret handling. Leadership wants to know: Was this a one-off mistake or a governance/control design gap?*

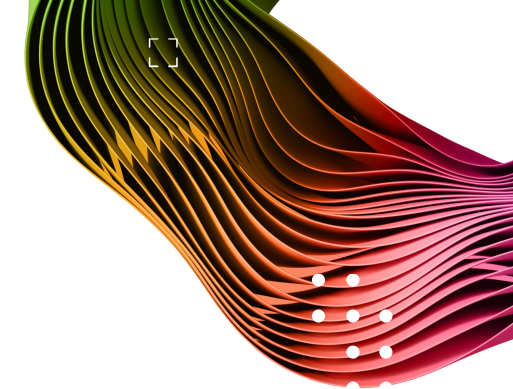
#### Internal Audit Objectives:

- 1) Assess whether **roles** and **responsibilities** for cloud security are clearly defined and understood across the organization in alignment with the cloud provider's shared responsibility model.
- 2) Evaluate whether **identity** and **access controls** are appropriately **designed** and **implemented** to enforce least privilege, secure service account usage, and effective credential and key management.
- 3) Assess whether **cloud configuration** and **change management processes**, including guardrails and policy enforcement, are effectively **designed** and operating to prevent unauthorized or insecure changes.
- 4) Evaluate whether **logging, monitoring, and alerting** capabilities are sufficient **to detect, escalate, and respond** to unusual or unauthorized activities in a timely manner.
- 5) Assess whether **incident response processes**, including playbooks and escalation protocols, are clearly defined, tested, and effective in supporting timely containment, communication, and remediation of cloud-related incidents.

# Key Takeaways

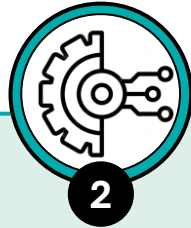


# IT Governance Is the Key Enabler of Value, Control, and Resilience in Digital Transformation



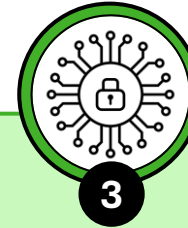
## Strong IT Governance drives value and accountability

Effective **IT governance** is the **foundation** for **aligning technology with business strategy investments**, enabling clear decision-making, accountability, and performance measurement across digital initiatives with **structured governance** improving **value realization** by ~20% through **clear KPIs** and **oversight**.



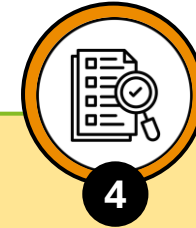
## Digital transformation increases both opportunity and risk

While organizations are significantly **increasing investments in digital transformation** (35% of IT budgets and ~4T globally by 2027), **high failure rates** and **cost overruns** highlight the need for stronger governance, disciplined execution, as well as structured performance tracking.



## The cyber and technology risk landscape is expanding rapidly

Organizations are facing growing exposure across **cybersecurity, cyber resilience, third-party ecosystems, cloud environments, and AI-driven threats**, requiring **integrated risk management** and stronger control frameworks.



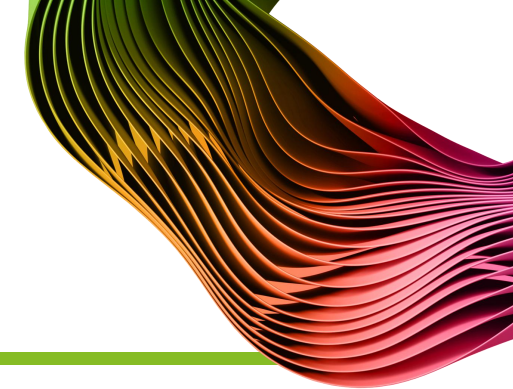
## Internal Audit is a strategic enabler of resilience and control

**Internal Audit** plays a critical role in assessing **governance effectiveness**, providing **decision-ready insights**, and ensuring that **risk management, controls, and value realization** are embedded across transformation programs.

**Thank you!**



# Deloitte POV - Key Internal Audit and Risk Hotspots



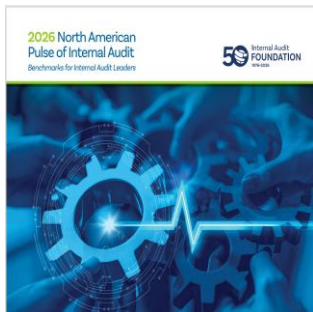
## 2026 North American Pulse of Internal Audit

This report provides benchmarking data on various aspects of internal audit activities, including CAE metrics, budget, staff, audit plans, audit plan analysis, and risk levels. The report also discusses the trends in remote work and sustainability in audits, as well as the responsibilities of internal audit professionals in different types of organizations. It provides valuable benchmarking data for Internal Audit functions in North America. For further details, refer to [The Pulse of Internal Audit](#)



## Internal Audit Hot Topics

The report discusses key organizational risks that Internal Audit functions should have in their audit plans and provides strategies for reviewing these areas of risk. It emphasizes the need for internal audit to align with the organization's purpose, embrace digital technologies, and drive organizational change and learning. For further details, refer to [Internal Audit Hot Topics](#)



## Hot Topics for Technology and Digital Risk

The report discusses key Technology and Digital risks facing organizations and highlights priority areas for Internal Audit in 2026. These include, emerging risks in technology, generative AI, identity and access management, cybersecurity maturity assessments, and technology resiliency and governance. For further details, refer to [Hot topics for technology and digital risk 2026](#)

**The Leadership Series  
will resume in  
September following  
our summer pause**

**“stay tuned for  
upcoming topics”**

Capital Projects

Joint Venture Governance

Mergers & Acquisition

And many more

To stay updated on future sessions  
with Deloitte

Deloitte Future Event Signup





#### About Deloitte Canada

At Deloitte, our Purpose is to make an impact that matters. We exist to inspire and help our people, organizations, communities, and countries to thrive. Our work underpins a prosperous society where people can find meaning and opportunity. It builds consumer and business confidence, empowers organizations to find imaginative ways of deploying capital, enables fair, trusted, and functioning social and economic institutions, and allows our friends, families, and communities to enjoy the quality of life that comes with a sustainable future. And as the largest Canadian-owned and operated professional services firm in our country, we are proud to work alongside our clients to make a positive impact for all Canadians.

Deloitte provides industry-leading consulting, audit and assurance, tax, advisory and managed services to nearly 90% of the Fortune Global 500<sup>®</sup> and thousands of private companies. We bring together world-class capabilities, insights, and services to address clients' most complex business challenges.

Deloitte LLP, an Ontario limited liability partnership, is the Canadian member firm of Deloitte Touche Tohmatsu Limited. Deloitte refers to one or more of Deloitte Touche Tohmatsu Limited, a UK private company limited by guarantee, and its network of member firms, each of which is a legally separate and independent entity. Please see [www.deloitte.com/about](http://www.deloitte.com/about) for a detailed description of the legal structure of Deloitte Touche Tohmatsu Limited and its member firms.

To learn more about Deloitte Canada, please connect with us on [LinkedIn](#), [X](#), [Instagram](#), or [Facebook](#).

© 2026 Deloitte LLP and affiliated entities.

© 2026 Deloitte LLP and affiliated entities.

