



KPMG and generative AI

Unleashing the full potential of AI with an integrated governance model

The transformative power and economic potential of generative AI cannot be denied. According to a recent KPMG survey of 200 business leaders in the U.S., generative AI was rated as the top emerging technology.¹ Survey respondents expected their organization to be impacted “very highly” in the next 12 to 18 months. Additionally, 80 percent believed that generative AI will disrupt their industry, and 93 percent are certain that this technology will provide value to their business.

The benefits are clear in generative AI solutions, including:

- Gaining efficiency and improving productivity
- Improving decision making based on data and analytics
- Generating reports, presentations, and other communication
- Enhancing user experiences
- Optimizing costs
- Building and improving business models
- Enabling innovation and transformation initiatives.

¹ Source: “KPMG Generative AI survey,” June 2023

Equally clear, however, are the risks involving generative AI. Even the best-run organizations can develop or adopt generative AI solutions that unintentionally present major risks in the following areas:



Bias or inaccuracy: perpetuating and even amplifying societal biases present in the data used to train algorithms



Lies and misinformation: inadvertently creating fake, distorted, or misleading content



Privacy concerns with personal data: generating sensitive information, such as personally identifiable data or protected health information



Cybersecurity: allowing the unintended introduction of vulnerabilities into infrastructures and applications through generated code or configurations



Legal, copyright and intellectual property (IP) issues: creating ambiguities over the authorship, ownership, and responsibility of the data input and content generated by AI



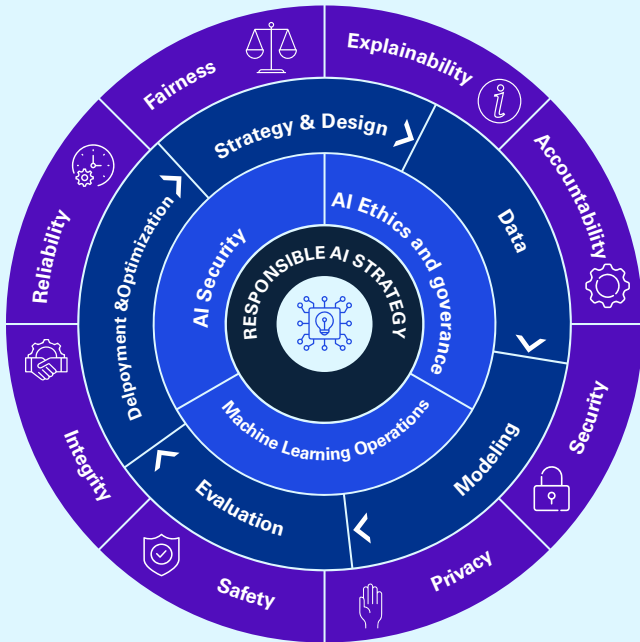
Liability: acting on wrong information or taking detrimental actions (such as a wrong diagnosis or the deletion of IP) that leave the organization open to legal liability



Transparency: failing to understand input data or how generative AI makes decisions, sometimes because of “black box” technology provided by third-party suppliers

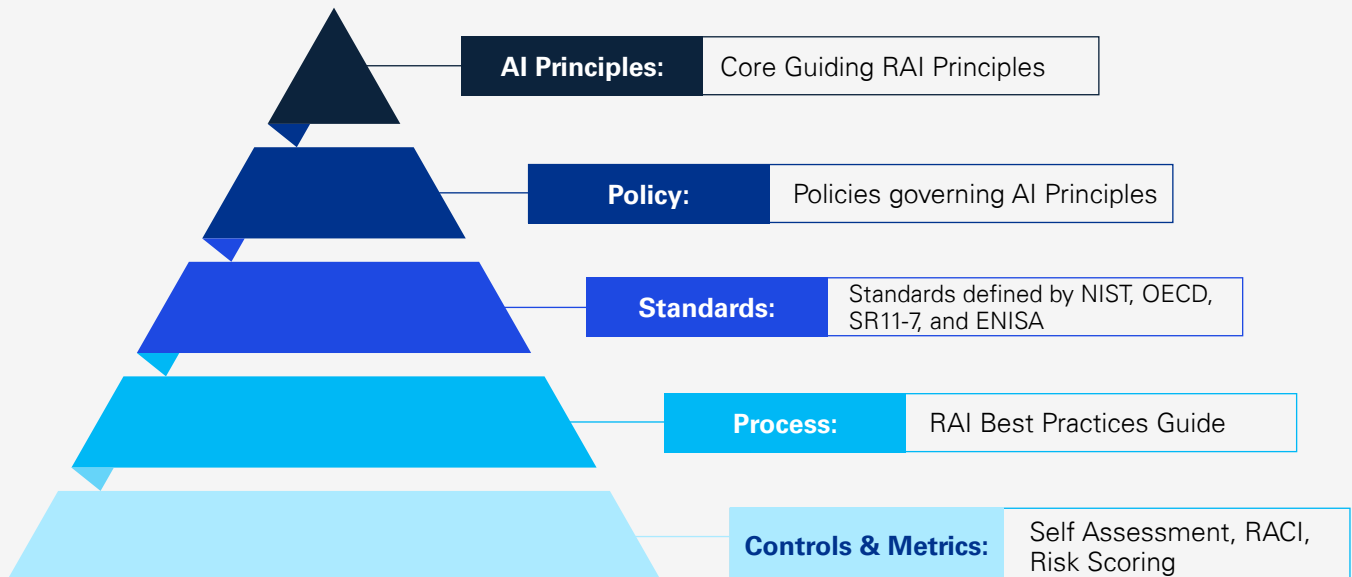
In a survey conducted by KPMG and The University of Queensland, Australia, 17,000 people from 17 countries were asked about the potential risks of AI solutions. Three out of five respondents (61 percent) said they were wary about trusting AI systems, reporting either ambivalence or an unwillingness to trust.²

KPMG's Responsible AI framework



- Fairness**
Ensure AI system perform at the desired level of precision and consistency
- Privacy**
Ensure compliance with data privacy regulations and consumer data usage
- Explainability**
Ensure AI can be understood, documented, and open for review
- Safety**
Ensure AI does not negatively impact humans, property, and environment
- Accountability**
Ensure mechanisms are in place to drive responsibility across the lifecycle
- Data Integrity**
Ensure data quality, governance, and enrichment steps embed trust
- Security**
Safeguard against unauthorized access, corruptio, or attacks
- Reliability**
Ensure AI systems perform at the desired level of precision and consistency

Responsible AI Governance - The Framework



² Source: "Trust in Artificial Intelligence, A global study, 2023," KPMG, The University of Queensland, Australia

Developing an effective AI governance model: What should risk professionals know

Managing risk related to generative AI begins with developing a solid AI governance model designed to identify, manage, and respond to generative AI risks.

Based on our experience in developing generative AI solutions both for ourselves internally and our clients, an effective governance model should include essential directives and considerations such as the following:

01

Maintain security and privacy as core components of any governance model.

The generative AI risk landscape includes data poisoning and backdoor detection, model theft or ransom, model evasion, and data extraction, to name a few. Develop governance that addresses key issues such as data integrity, reliability, and safety by using frameworks such as Responsible AI, a tested approach to the development, and deployment of AI systems in a safe, trustworthy, and ethical manner. Consider enhancing your existing AI policies, such as codes of conduct, to include the protection of confidential information in accordance with applicable legal requirements, professional standards, and contractual obligations.

02

Consider a single consistent governance model.

One size or type of governance model does not fit all. Existing models or frameworks that were built for traditional risks might not—and probably do not—apply to all the generative AI risks facing your organization. Develop a model that aligns your organization’s risk appetite and tolerance with specific AI use cases and supports how and where governance principles are required and applied. For example, an AI grammar and editing assistant might not require the same risk review that a statistical financial risk model would.

03

Reimagine your work intake process.

In terms of generative AI, the intake process should include how new AI models are considered, reviewed, and approved prior to development and implementation. This is important because generative AI has the potential of introducing new risks such as access to confidential data by third parties, IP risks, or liability issues that are not considered in current intake processes.

04

Re-evaluate your third-party risk management process.

Review your vendors’ Responsible AI principles against those supported by your organization to identify any gaps. Furthermore, consider re-evaluating existing contracts with vendors that have recently adopted AI technologies.

05

Develop sustainable solutions.

Organizations with ESG commitments need to consider how their AI solutions can be energy efficient, reduce carbon emissions, and support a cleaner environment.

06

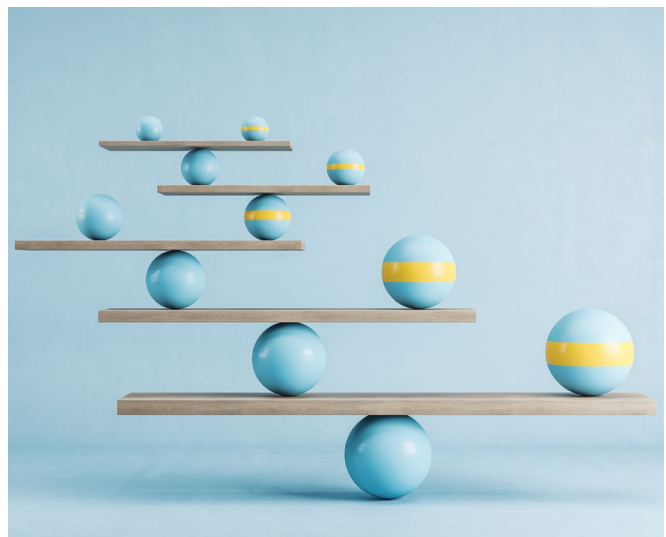
Help ensure that a diverse and representative group of stakeholders are involved in governance and model development.

It is necessary to engage various stakeholders across the organization and human resources (HR) teams in these efforts.

07

Build appropriate safeguards and measures to manage risks across the entire AI lifecycle, including ongoing monitoring.

Solutions need to continuously test for risks such as model drift involving results that stray away from initial project parameters, or hallucinations where AI generates a convincing but completely made-up answer.



Engage your board for better oversight over AI initiatives

The rapid evolution and adoption of generative AI creates significant challenges for business leaders responsible for helping to ensure adequate governance and oversight. Board members and other senior executives can consider the following questions to help them assess their organization's state of readiness and maturity regarding generative AI issues:

- Is my existing governance process agile enough to ensure that generative AI risks are identified, managed, mitigated in a timely manner?
- Are my existing risk appetite metrics aligned to risks related to generative AI?
- Are my stakeholders in business and IT frustrated by the slow risk review process?
- Are controls appropriate for each stage of the generative AI lifecycle and are controls commensurate to different risk levels?
- Do automated workflows maintain and enhance control postures?
- Does your organization provide a safe zone for development?
- Is experimentation appropriately supported with access to training data for use cases?
- Is monitoring and measuring post-deployment supported?
- Can the organization's generative AI solutions scale up effectively while still managing risk?

5 steps for risk organizations to get started on the AI Governance journey

- Establish your principles for AI that will guide your process in building the governance model and consider an enterprise-wide AI mission statement.
- Reimagine your existing governance model including your risk assessment process to uncover the risks of AI
- Ensure that your AI office is inclusive of relevant stakeholders across Business, Technology, HR, Diversity amongst others.
- Align your AI deployments against appropriate standards and regulatory guidelines.
- Monitor your existing third and fourth parties to determine compliance against your responsible AI principles including existing low risk approved vendors.

How KPMG can help

With every generative AI project, at KPMG, we strive to combine our deep industry experience, modern technical skills, leading solutions, and robust partner ecosystem to help business leaders harness the power of generative AI in a trusted manner—from initial strategy and design to ongoing activities and operations. We are actively involved in helping our clients manage risks associated with generative AI solutions such as performing rapid assessments of existing generative AI frameworks, maturity and benchmarking analysis, and implementing a generative AI governance process from intake to production.

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