**Gartner** Peer Community... **Generative Al** Security and Risk Management Strategies With growing interest in generative AI tools and foundational models among organizations and individuals alike, IT and security leaders are challenged to mitigate the accompanying risks of this rapidly developing tech. Given the emergent nature and

deep complexity of this area, what strategies are these leaders turning to so far? **One-Minute Insights:** 

Almost all respondents say their organization is currently using, planning to

use or considering generative AI

Data collection: Apr 1 - Apr 7, 2023

AI foundational

Among those respondents that do

generative AI security and/or risk

generative AI security commonly

rests with IT (44%), but 20% say it's

- Director, biotech industry,

management strategy

or implementing tools for model explainability.

Privacy-enhancing technologies (PETs)

19%

Note: May not add up to 100% due to rounding.

7%

**ModelOps** 

44%

New

working

generative Al

29%

Responsible

ΑI

Data guidelines

use of identifiable data)

mitigate/identify undesirable outputs

Al governance

Humans in the loop to

Awareness training on

responsible AI practices

(e.g., using synthetic data, prohibiting

groups for champion(s)

29%

Al risk

manage-

ment

function

Al ethics board 14% | Partnering with Al startups 12% |

Not sure 7% | None of these 4% | Other (Too early to say) 1%

27%

Automation

CoE

1,000 - 5,000 employees

management (n =114), most indicate

not own the responsibility for

that ultimate responsibility for

models

Over one-third are already using or implementing AI application security tools

and risk management strategy involves the formation of new working groups

Most surveyed IT/security leaders report their organization's generative AI security

Many say their organization is facing team or skills gaps in its generative AI security/risk management efforts

One-Minute Insights on timely topics are available to **Gartner Peer Community** members. Sign up for access to over 100 more, and new insights each week.

Incorrect/biased outputs and insecure code are among the generative AI

risks that respondents are most concerned about for their organization

Respondents: 150 IT and information security leaders at organizations where generative AI or foundational models are in use, in plans for use, or being explored Most say their organizations are using or considering

generative AI and that IT is responsible for related security and risk management efforts Respondents report that their organization is exploring, using or planning to use either generative AI tools (31%), foundational models (27%) or both (23%).

Is your company currently using, planning to use, or exploring generative AI tools or foundational models?\* 27% Yes, generative

23%

18%

<1%

3%

1%

Other (Automation,

Dedicated AI risk management office

- C-suite, professional services industry,

1,000 - 5,000 employees

Engineering, Operations)

teams or

employees are independently

Yes, both

generative AI tools

Almost one-fifth (18%) of respondents say certain employees or teams at their

organization are using these tools independently.

and foundational 31% models Yes, generative AI tools No, but certain

n = 150using generative AI tools Note: May not add up to 100% due to rounding. \*Respondents who answered No or Not sure were eliminated from the survey. Nearly all (93%) IT/security leaders surveyed are at least somewhat involved in their organization's generative AI security/risk management efforts, but just 24% say they own this responsibility.

Are you involved in security and/or risk management

efforts related to the use of generative AI tools or foundational models in your organization?

24% I am not at all involved I own responsibility for in generative AI security generative AI security and/or risk management and/or risk management **7**% I am minimally involved (e.g., providing support or guidance to team(s) that own generative 30% Al security and/or risk management) I am heavily involved 39% I am somewhat involved (e.g., working with other functional leaders on n = 150generative AI security Note: May not add up to 100% and/or risk management) due to rounding.

5% owned by their organization's governance, risk, and compliance Data governance 20% (GRC) function. Governance, Legal risk and Which function or group in 18% compliance your organization is (GRC) Security 8% ultimately responsible for Privacy generative AI security?\* n = 114Note: May not add up to 100% due to rounding. \*Question shown only to leaders who did not answer "I own responsibility for generative AI security and/or risk management" to the question "Are you involved in security and/or risk management efforts related to the use of generative AI tools or foundational models in your organization?" "AI is over hyped right now, "This is a new area and all we need to wait a bit to our decisions are being clear our minds." questioned constantly."

44%

Question: Please share any final thoughts on your experience on generative AI risk mitigation and security.

of all respondents are either already using or implementing AI application security tools and over half (56%) are exploring such solutions.

Some respondents indicate that they are currently implementing or using privacy-enhancing

technologies (PETs) (26%), ModelOps (25%) or model monitoring (24%). Only 19% are using

The vast majority have or are looking to incorporate

tools in their generative AI security and risk

"[W]e are still in the learning and discovery phase."

- Director, transportation industry, 5,000 - 10,000 employees

Are you using or planning to use tools for any of the following to address risks related to generative AI? Currently using **Implementing Exploring** No plans to Not sure implement Model explainability 17% 63% 7% 12% Model monitoring 5% 19% 57% 16% 3%

51%

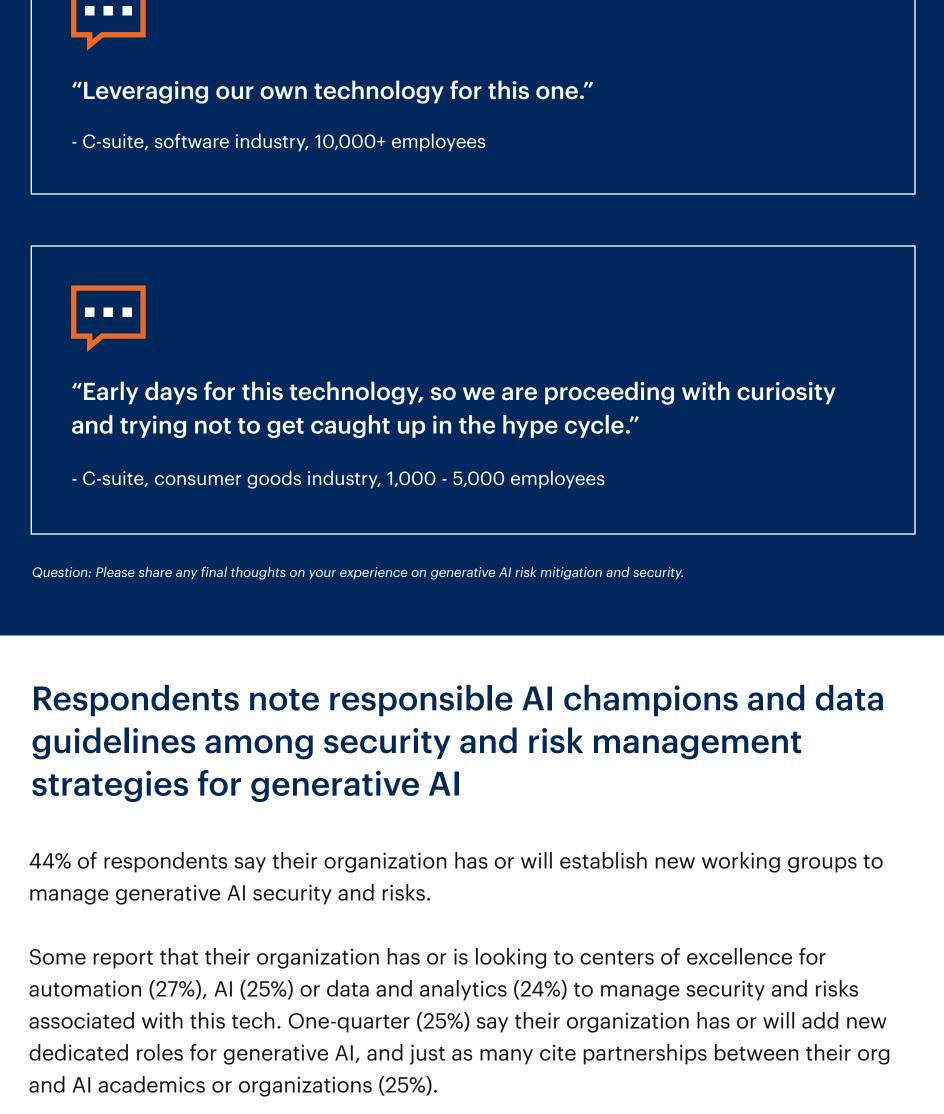
6%

**7**%

n = 150

17%

4% 21% 54% 14% Al application security 4% 56% 7% 3% 30%



Which of the following have been or will be established at

your organization to manage generative AI security and risks? Select all that apply.

**25%** 

New

roles for

generative Al

Most respondents use or plan to use data guidelines (61%) and humans in the loop (55%)

What strategies are you using or planning to use to mitigate risks associated with the use of generative AI

tools or foundational models? Select all that apply.

to mitigate risks associated with generative AI tools or foundational models.

dedicated excellence

(CoE)

**25**%

Al center of Partnering

24%

Data and

analytics

CoE

n = 150

61%

55%

44%

42%

**25**%

with Al

academics or

organizations

(e.g., Partnership

Independent AI model 30% validator for each use case Vendor selection strategies (e.g., requiring explainable AI) 21% n = 150Al application security program 20% | Explainable Al frameworks 19% | Adversarial attack resistance 17% | Not sure 5% | Other <1% | None of these 0%

"[W]e are still early in the implementation and are primarily focused on

risk and [cybersecurity]. We are confident that it is vetted for our

worth the expense at this point for that."

- C-suite, healthcare industry, 1,000 - 5,000 employees

healthcare and clinician workflows without human intervention. Not

"It's not 100% fool-proof and still benefits from human intervention." - Director, healthcare industry, <1,000 employees "We are currently assessing compliance aspects [and] static analysis tool capabilities to continuously scan AI generated code, and also forming guidelines for aware and ethical use of generative Al tools by engineers." - C-suite, finance industry, <1,000 employees Question: Please share any final thoughts on your experience on generative AI risk mitigation and security. Undesirable outputs and insecure code are among the top-of-mind risks concerning most respondents in terms of generative AI at their organizations When it comes to deficiencies in security and risk management for generative AI or foundational models, surveyed leaders noted gaps in team/skills (63%), transparency in third-party generative AI tools (51%), and consensus on related guidelines or policies (47%).

Are you experiencing gaps or deficiencies in any of these areas

when it comes to security/risk management for generative AI tools or foundational models? Select all that apply.

**47%** 

Consensus on

generative Al

guidelines/policies

43%

Data

governance

36%

compliance

35%

risk/security

(i.e., production-

first mentality)

n = 150

Regulatory Prioritization of

43%

Copyright or

licensing issues

58%

35% Reputational/

brand risks

63%

Team/skills

51%

Transparency

in third-party

generative

Al tools

Industry best practices 29% | Transparency in foundational models 21% |

secrets in Al-generated code (57%).

Many identified copyright or

licensing issues (43%) among

their risks of greatest concern

What risk(s) are you most concerned about

for their organization.

Collaboration across stakeholder groups 17% | Not sure 2% | None of these 1% | Other 0%

More than half of respondents say the risks they are most concerned about for their

organization include incorrect or biased outputs (58%) and vulnerabilities or leaked

57%

Potential for

vulnerabilities or

leaked secrets in

AI-generated code

for your organization when it comes to Potential for generative AI tools or foundational models? generating incorrect or biased outputs Select up to three. 33% Delegating 'human in the loop" role to Increasing availability of ready-to-use generative AI tools unknown actors (e.g., limited ability to restrict employee access) 21% | 32% Data re-identification 17% | Not sure 1% | None of these 0% | Other 0% Compliance issues n = 150

"Loss of internal IP is rising to the top of our list as the number 1 risk for

ChatGPT use within our organization with the potential for developers

"There is still no transparency about data models are training on, so

the risk associated with bias, and privacy is very difficult to

Question: Please share any final thoughts on your experience on generative AI risk mitigation and security. Want more insights like this from leaders like yourself? **Click here** to explore the revamped, retooled and reimagined

understand and estimate."

North America 77%

- C-suite, finance industry, <1,000 employees

to feed it source code to help improve quality."

- VP, natural resource extraction industry, 10,000+ employees

**Respondent Breakdown** 

Region

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**APAC 9%** 

and engaging discussions from a community of your peers.

**EMEA 15%** Job Level **Company Size** 10,001+ Director C-Suite employees <1,001 VP 36% 25% employees 35% 32% 29% 1,001 - 5,000 5,001 - 10,000 25% employees 18% employees

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Source: Gartner Peer Community, Generative Al Security and Risk Management Strategies survey