

# Morning sessions on the effective use of Artificial Intelligence (AI)

May 2025



# Agenda

- 01** Welcome & Introduction
- 02** AI Cybersecurity Threat Landscape w.  
Kenneth Pedersen & Jørgen Sørensen
- 03** Inside PwC's Compliance Journey with AI w.  
CISO, Nicholas Jancey
- 04** Security in the age of AI w. Microsoft
- 05** Tackling AI Security Threats  
– What to do next?
- 06** Closing and Q&A



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## The AI shift

# AI Is Becoming Part of Everyday Life

**Tools like Microsoft Copilot, ChatGPT, and others are no longer optional – they're being integrated into workflows, communication, and decision-making.**

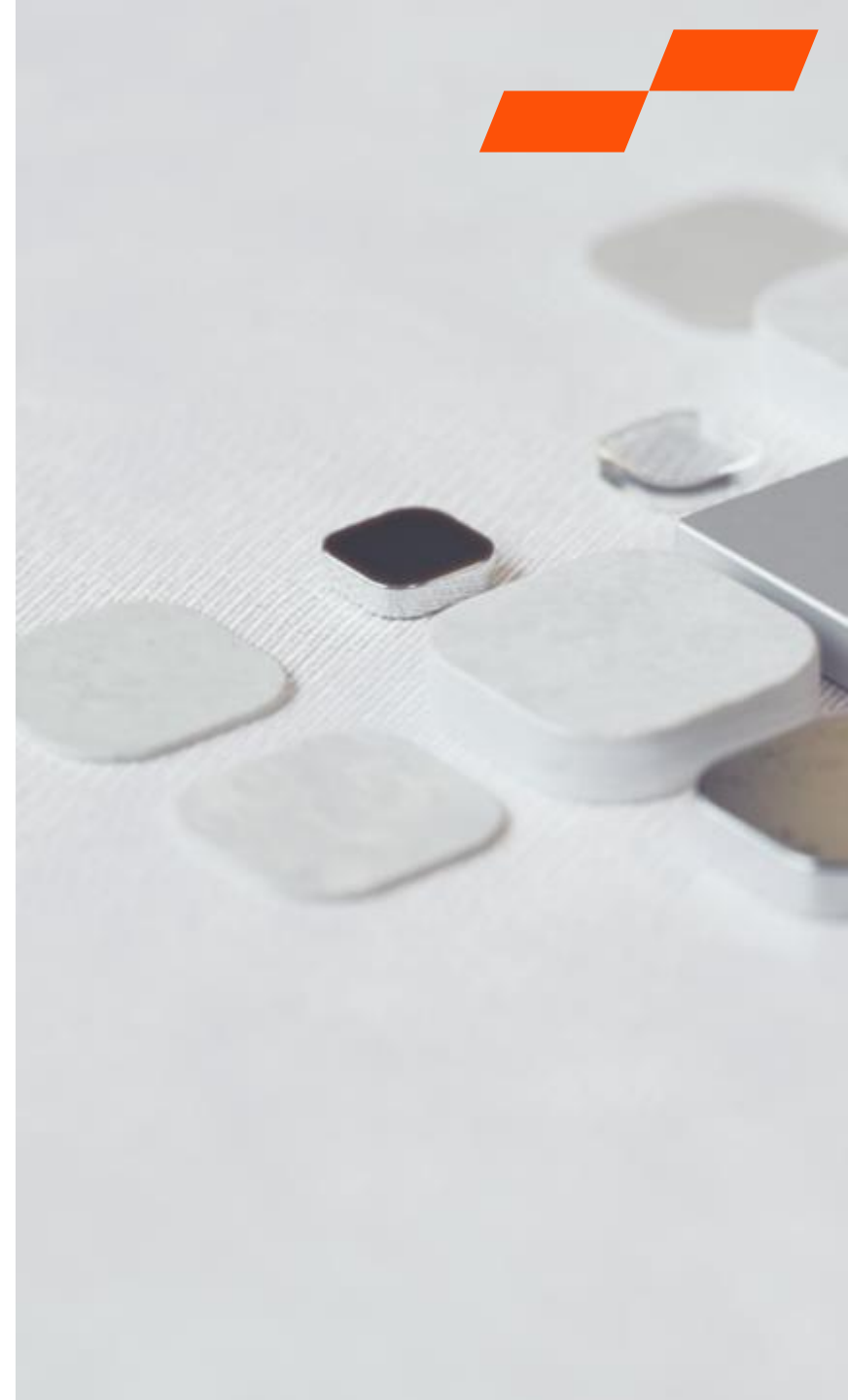
**Whether we're ready or not, the technology is advancing.**  
The challenge now is how to use AI **effectively and responsibly.**

**AI is transforming how we work.**  
It automates routine tasks, supports faster insights, and opens for new ways of collaborating.

**This shift brings new demands.**  
It requires **new skills, ethical awareness, and smarter strategies** from both individuals and organizations.



***“We’re not waiting for AI anymore. We’re living with it.”***







61%

are using or planning to use AI  
in their cybersecurity efforts



60%

are more concerned about  
cyberthreats now than they  
were 12 months ago



# Cybercrime Survey 2024



41%

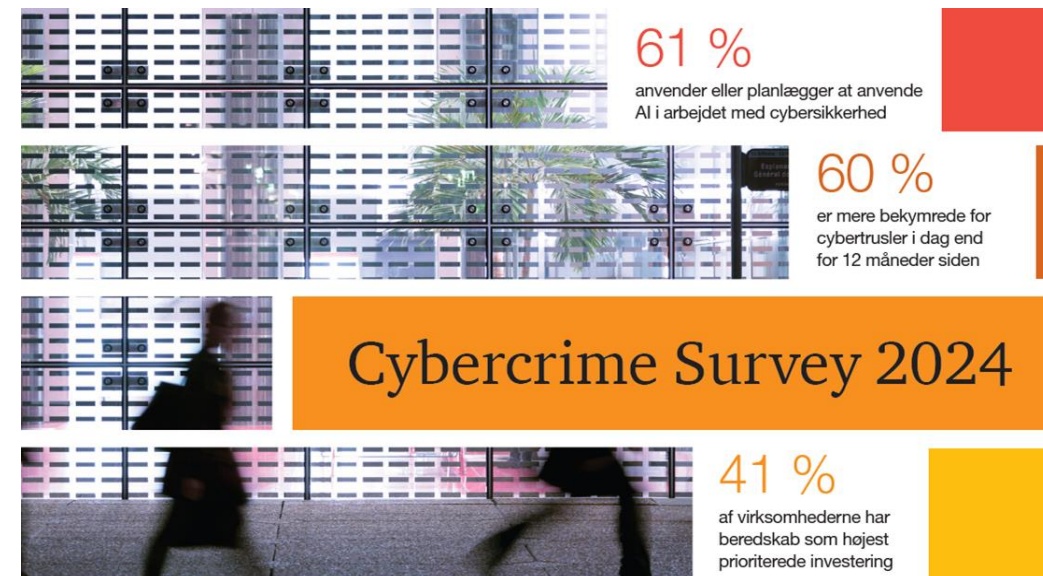
of organisations have  
incident response as their  
highest-priority investment



# About the Cybercrime Survey

## In Brief

- For the **10th consecutive year**, PwC has evaluated cybersecurity efforts in Danish businesses.
- A total of **463 executives, security officers, and subject matter experts** participated in PwC's Cybercrime Survey 2024 making them reliable for statistical reporting.
- The respondents shared their insights on topics such as **concerns**, investments, challenges, and opportunities in cybersecurity.



You can download the complete survey on PwC's official website.

# The biggest **cyber** concerns

77 %

indicate that critical system outages are their biggest concern, while 62% point to the direct financial consequences of a cyberattack.

Cyber threats are no longer limited to hackers. Threats can also arise internally within the organization due to employees' unintentional actions. These actions are considered to represent a significant threat.

The cyber threat landscape is evolving in complexity, and comes with a cost.

**Question:** What is your organisation's main concern regarding the implications of a cyberincident?

Critical systems become unavailable for a long period of time

77%

Financial loss

62%

Confidential information is compromised or stolen

52%

Unauthorised persons gain access to personal data

47%

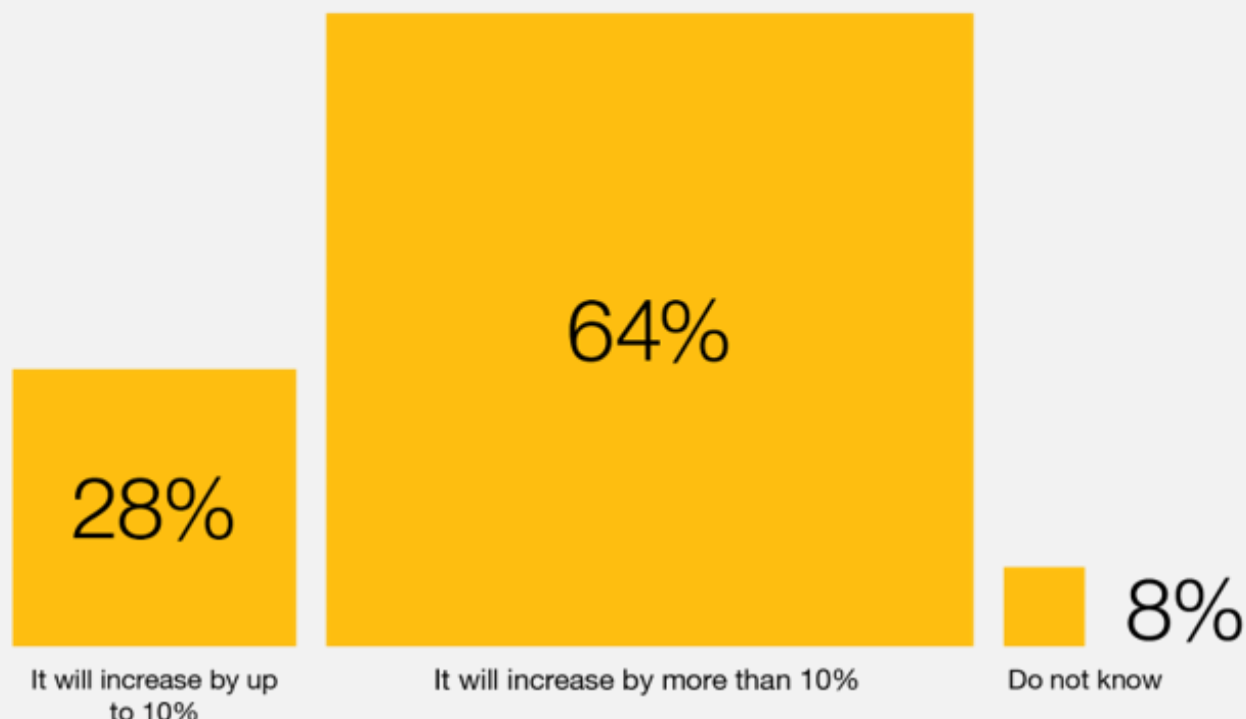
The organisation's brand or reputation is damaged

46%





**Question:** How much do you expect the cyber and information security budget to grow in the next 12 months?



## How will the budget be invested

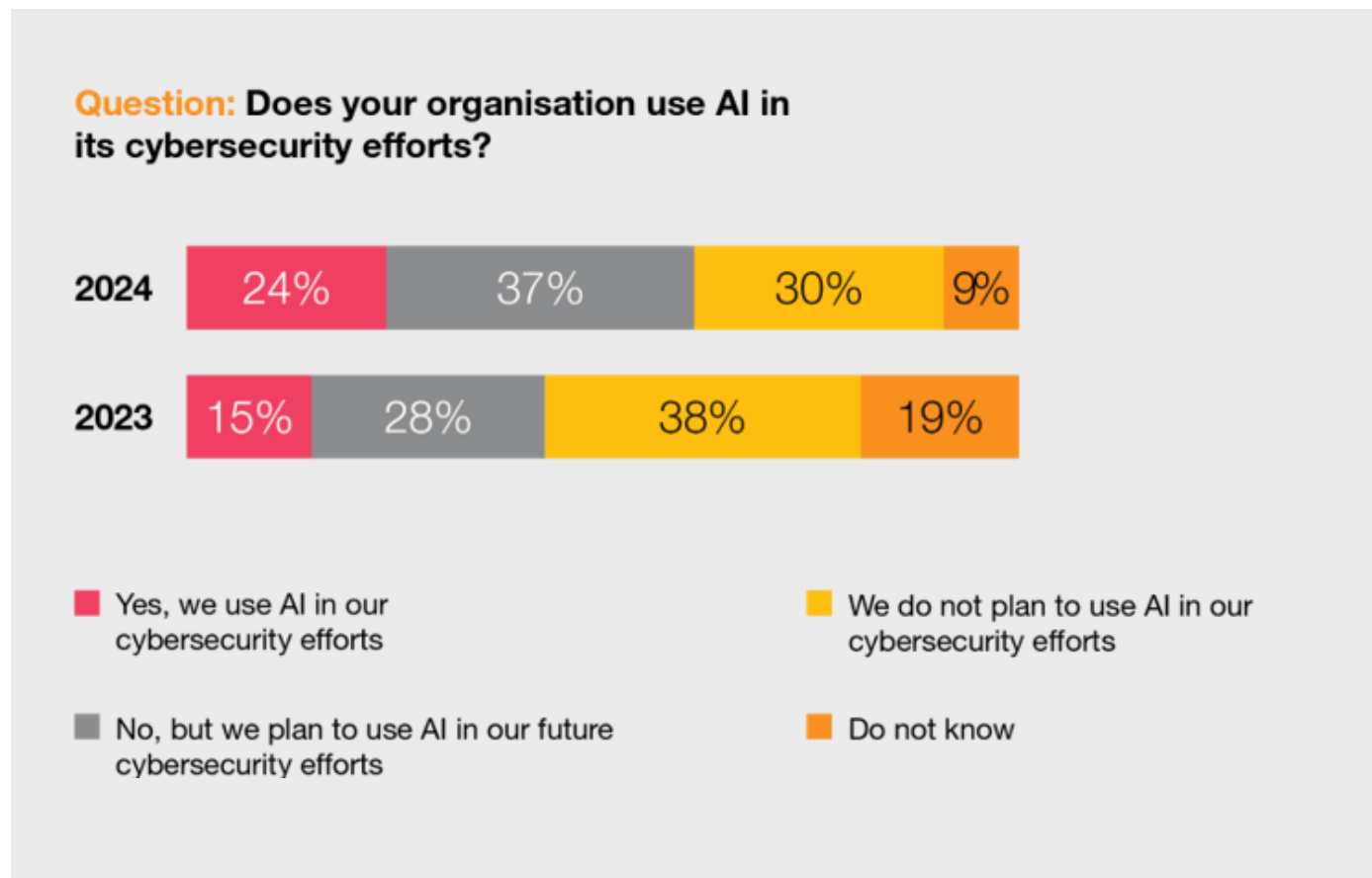
**Measures that can help prevent companies** from being affected by a cybersecurity incident.

**Measures that can help strengthen a company's ability** to manage cybersecurity incidents, should one occur — for example, contingency plans and policies for recovery.

**“AI is one of the highest priority investments in cyber security”**

# AI has become a much bigger factor in cybersecurity work

AI is one of the highest priority investments in cyber security, rising from 12% in 2023 to a whopping 25% in 2024. Over the last 3 years the investment has increased fivefold



## 61 %

of organizations indicate that they either use or plan to implement AI in their cybersecurity strategy. An increase from 43% in 2023.

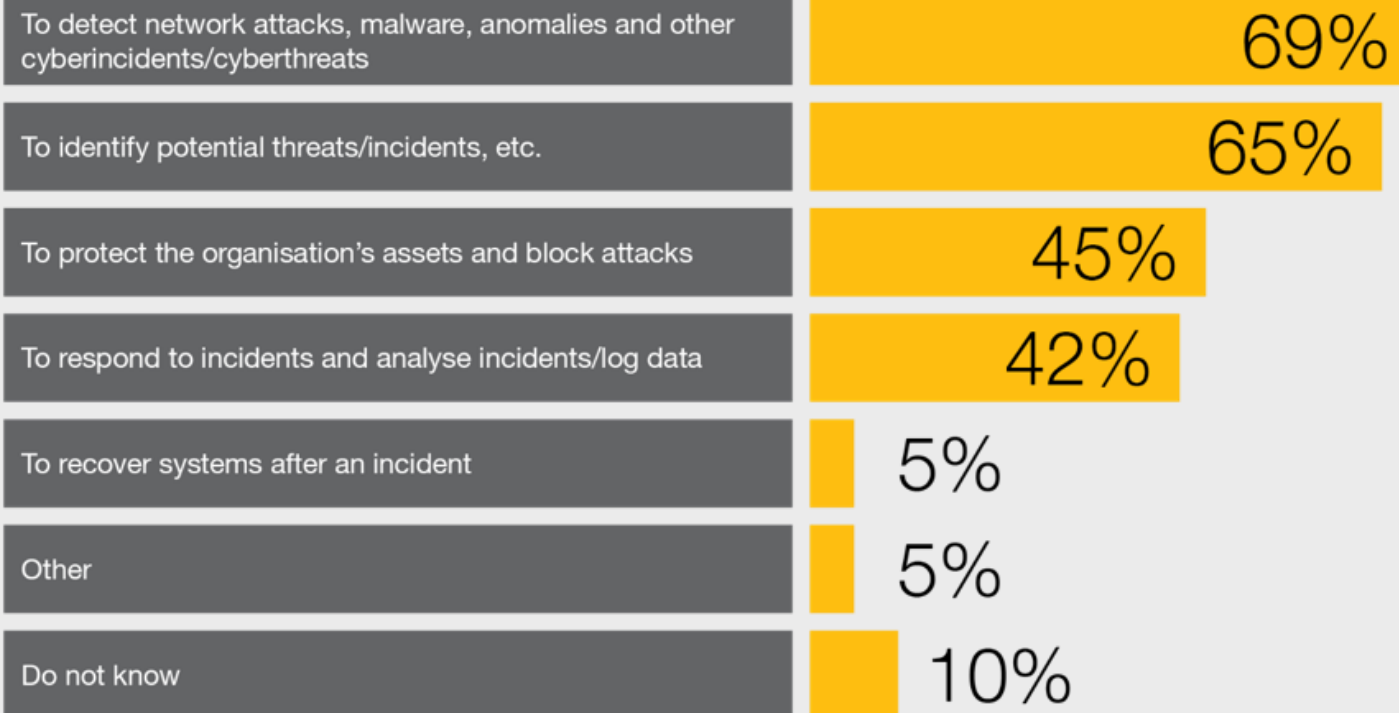
- **AI is mainly perceived as a preventive measure**, companies primarily view AI as a tool to enhance the detection of cyberattacks.
- Only 5% of respondents consider AI useful for restoring systems after an incident.



# AI has become a much bigger factor in cybersecurity work



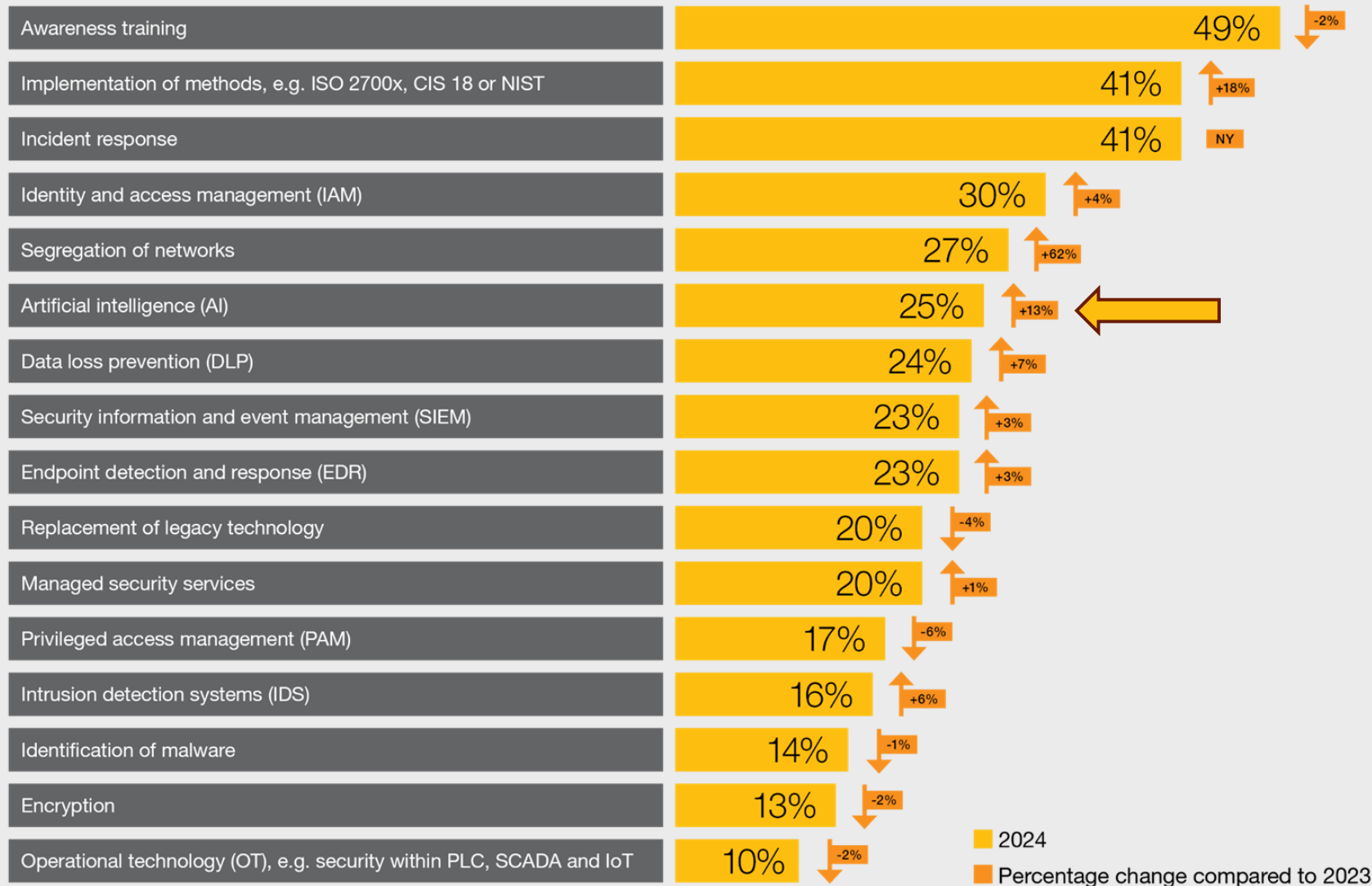
**Question:** In which areas does your organisation use or plan to use AI?



- PwC recommends that companies **integrate AI as a central component of their cybersecurity** strategy.
- **While AI can help detect threats faster** by, identify patterns, and automatically respond to potential security breaches, it is important to **combine AI with human oversight**.

*PwC has developed the “**Responsible AI framework**” and offers tools and advisory services to help companies build and manage AI in a responsible way.*

**Question:** What are your organisation's highest-priority investments in IT security over the next 12 months?



25%

of organizations now consider artificial intelligence (AI) a highest-priority investment in IT security.

It is clear that AI is growing the security threat landscape.



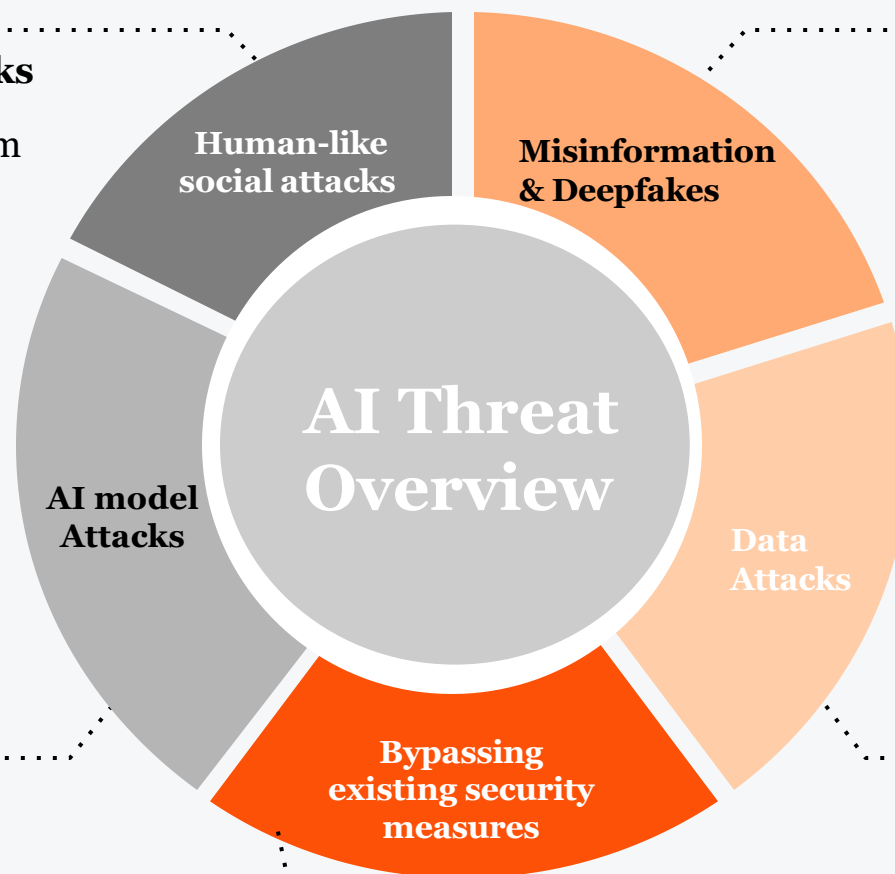
# AI is growing the security threat landscape



**Generative Adversarial Networks (GANs) Attackers** leverage AI-generated **fake content** derived from online recordings to **impersonate** individuals aiming to deceive others.



**Adversarial attacks** are a type of attack in which attackers **manipulate** input data to trick AI models into making mistakes. For example, small changes to an image can cause an image recognition model to classify it incorrectly.



AI systems can generate **high-quality fake content** that appears real, impacting society or economy.



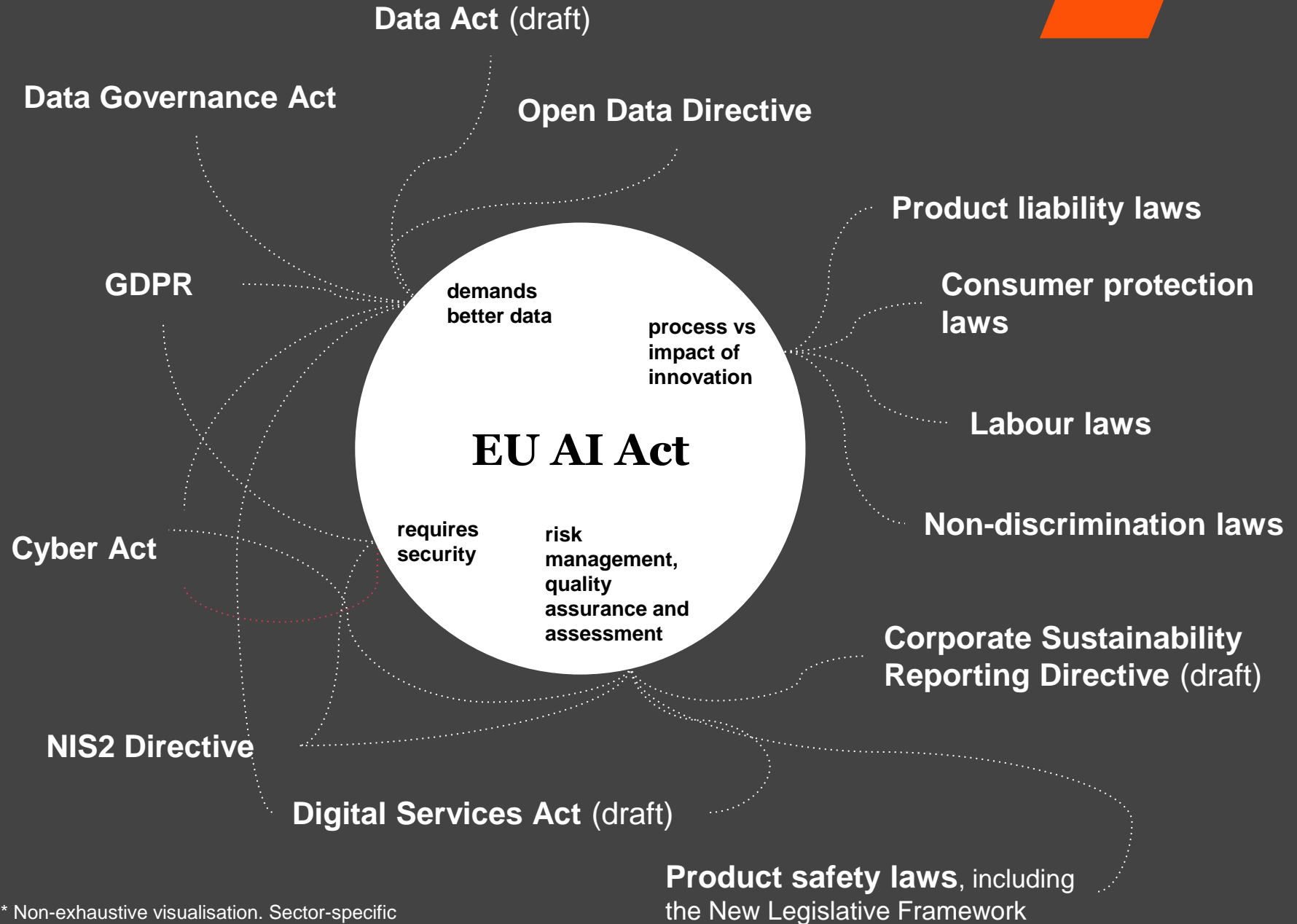
**Data Poisoning:** Deliberately injecting corrupted data during model training to influence AI behavior.



**AI-powered malware** can learn from network behaviors and **exfiltrate data** in small, undetectable bursts. Having an AI solution could potentially bypass security measures increasing the risk of **data leakage**.

The AI Act should be viewed in the context of other laws and regulations

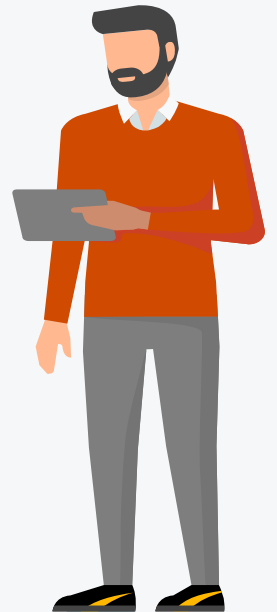
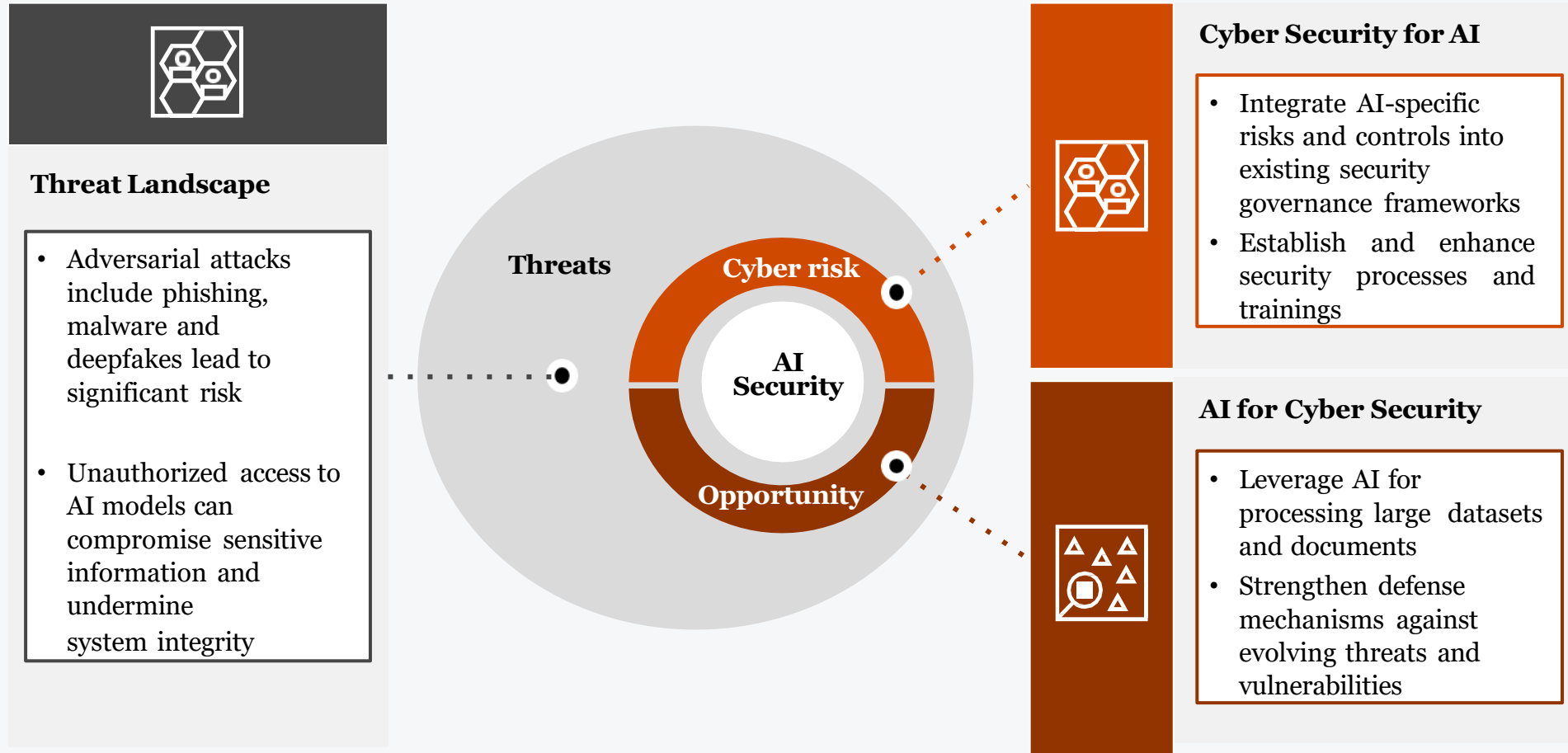
Especially the EU Charter of Fundamental rights



\* Non-exhaustive visualisation. Sector-specific laws not included



# Why AI's acceleration demands oversight





# PwC's compliance journey with AI

Presentation by **Nicholas V. Jancey**  
May 2025



# Who am I?



**Nicholas V. Jancey**

## **Nordics & Africa CISO**

Responsible for 23 PwC Member Firms,  
including PwC Denmark

## **20 years experience**

in Pharma, FMCG & Professional Services



## **Information Protection Committee**

PwC's protection of personal data about individuals and confidential information we hold about our clients and others with whom we do business is critical to maintaining their trust and to comply with laws, regulations and other obligations.



## **Technology Portfolio Management**


PwC's process for registration and evaluation of new technology ensures that any technology in our portfolio is thoroughly documented and tested and is essential for managing the cybersecurity attack surface.



## **Global & Local compliance**

Any new technology in PwC must comply with both global PwC policies and standards, as well as local legislation. There are many different compliance process that a new technology owner must navigate.

# As AI adoption continues to accelerate, companies should address common questions around managing the risks of AI



Companies should be prepared to answer these questions and **actively demonstrate ongoing governance and regulatory compliance.**



How do you protect against attacks and confirm your AI is **safeguarded, secure** and **reliable**?



How do you confirm AI applications reflect your company's **policies** and **values**?



Are your models developed in a way that addresses risk associated with **bias in data** and other potential risks?



Can you prove you are **operating in compliance with regulations**?



How can we **understand** what is driving the decision-making of the model?



What does your AI **governance model** look like for **accountability** and **quality**?



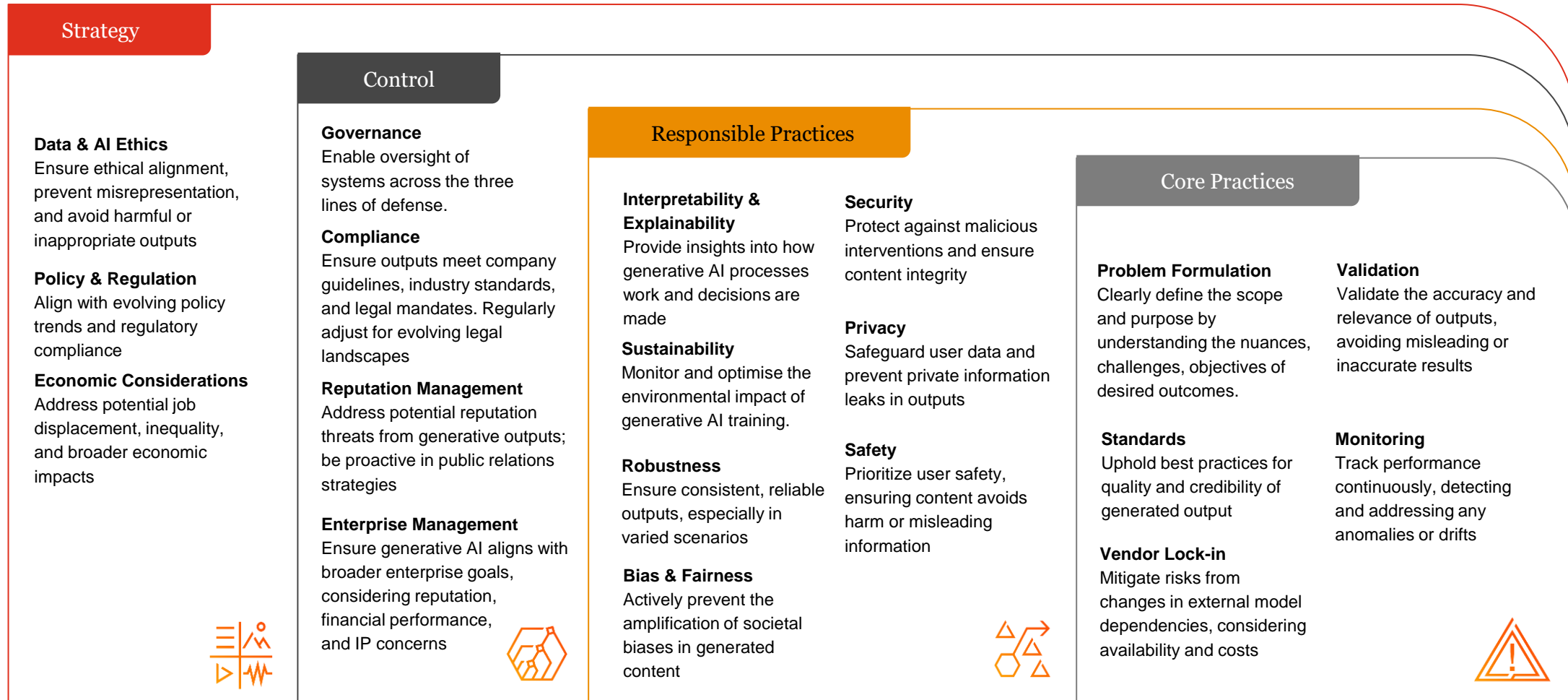
Do you feel confident in your **third party AI tools**? Are they **reliable** and **safeguarding your data**?



Are you respecting my **right to data privacy**?



# PwC's Responsible AI framework



# AI Ecosystem Building Blocks

We enable AI across every layer — from core infra, to AI agents & everyday assistants

**PwC** powers our enterprise **AI ecosystem** to drive **outcomes** for our clients, people and business.



## 01. AI Core Data – Secure foundation to build and run AI at scale

**Infrastructure**

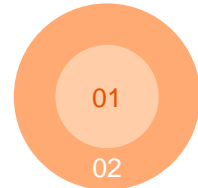
| Cloud, Identify, Data Security

**Models Access**

| Open AI, Google, Anthropic, Open Source

**AI Dev Tools**

| Agent OS, CoPilot Studio, Azure AI



## 02. AI Tools & Agents – Smart tools that save time and amplify work

**Client Service Delivery Tools**

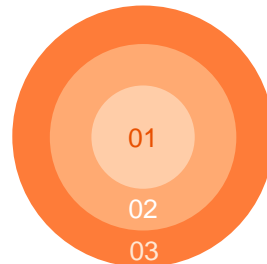
| Audit, Tax, Advisory Delivery Agents

**Vendor Tools**

| Harvey, Github CoPilot, Cursor, Phenom

**PwC-Built Internal Agents**

| GC Learning Coach, Data Analyst, Resume Reviewer



## 03. AI Assistants & Applications – Where AI shows up in daily work

**PwC-Built Everyday Assistants**

| ChatPwC, Astro (US)

**Vendor AI Assistants**

| GPT-E (US & UK), CoPilot

**AI Embedded in Enterprise Apps**

| Salesforce, ServiceNow, NGA, Concourse, etc.

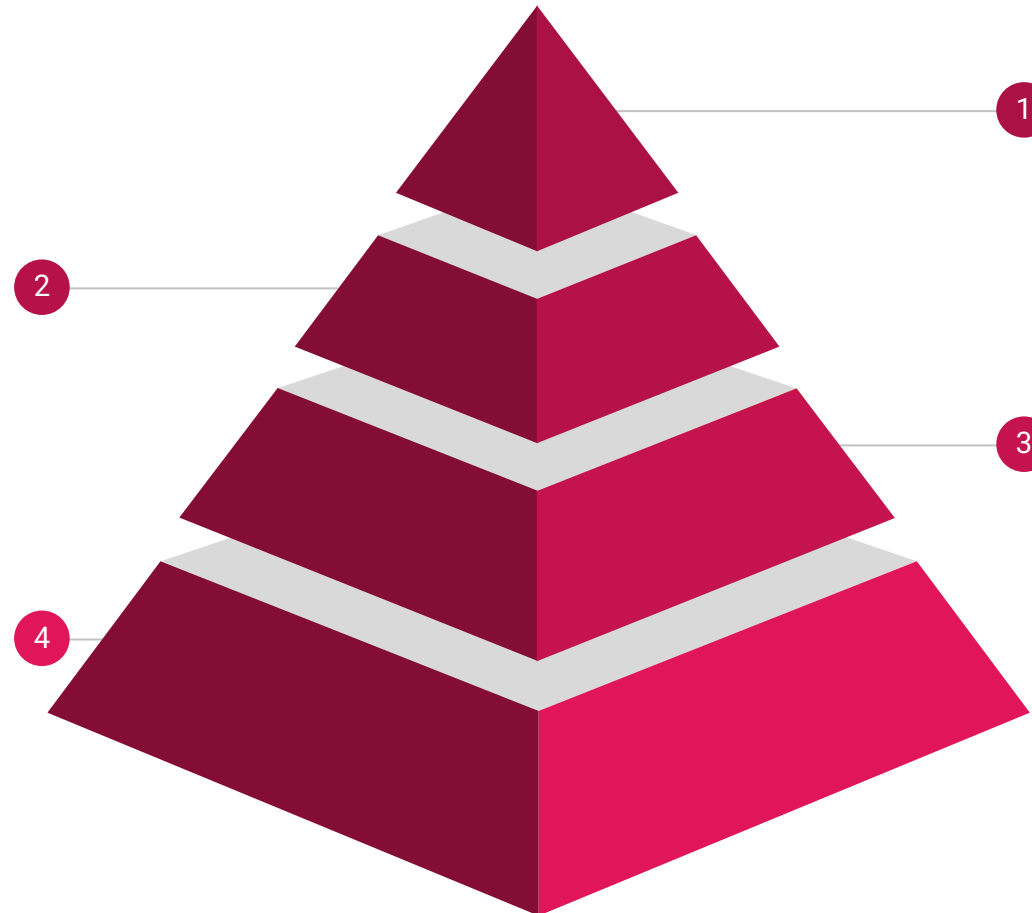
# EU AI Act

**High risk**

AI systems identified as high-risk include AI technology used in areas such as **Critical infrastructures, Access to Education, Employment, Safety components, Law enforcement, migration and border control**

**Minimal risk**

Applications such as spam filters or AI-enabled video games. The Commission proposes that these are mainly regulated by voluntary codes of conduct.



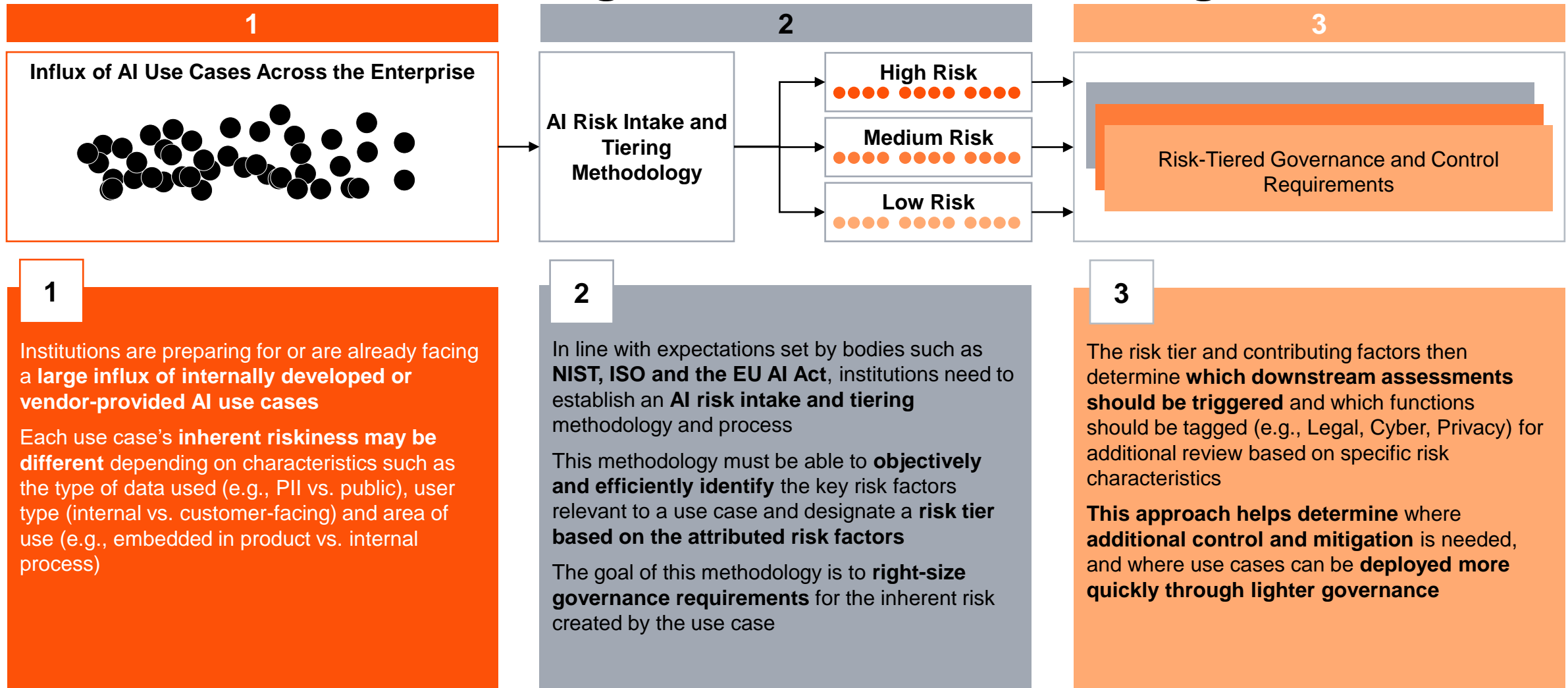
## Unacceptable risk

All AI systems considered a clear **threat to the safety, livelihoods and rights of people will be banned** from social scoring by governments to toys using voice assistance that encourages dangerous behavior.

## Limited risk

Duty to provide transparency such as labelling, or disclosure that content has been manipulated. Examples include: Chatbots, Emotion recognition and biometric categorisation systems.

# The AI risk intake and tiering methodology is a core requirement for effective and efficient AI governance and risk management





# Use Case categories

Summarization	Deep Retrieval	Transformation	Augmentation	Q&A (dialogue)	Net-new Creation
Producing an abbreviated form of a given document, coded program, or other body of text.	Searching for specific information within a given document or set of documents.	Creating a transformed version of data, such as image style transfer, text translation, or text personalization.	Expanding upon existing content, such as auto complete or synthetic data creation.	Responding to a given question. Chatbots, service bots, and virtual assistants support Q&A.	Generating net new content based on a user provided prompt (instruction).
No-Go use cases	No-Go use cases	No-Go use cases	No-Go use cases	No-Go use cases	No-Go use cases

# Example Use Case

Use Case category



Deep Retrieval

Indicates  
which  
types of  
data

Use Case description



Analyze company financial statement data to identify trends, key insights, and generate summarization of findings.

Indicates the  
purpose

## Inherent Risks with any Use Case

- Model bias
- Overreliance
- Unauthorised Secondary Use of Data
- Infringement of 3rd party IP
- Disclosure of PwC IP, confidential information and personal data



To be addressed through controls in the specific technology implementation

# Business Rules



## Non-technical controls

PwC applies non-technical controls to the use of AI through a hierarchy of Business Rules.

These rules contain the following:

- Required training
- Ethical values to apply to usage
- Data types that can be used, e.g. client data, PII, etc.
- Data classifications allowed
- Required verification and accuracy checks
- Areas of Attention, e.g. IP infringement risks, etc.



The diagram illustrates a hierarchy of Business Rules through three stacked rectangular boxes. The top box is dark orange and labeled 'Global Business Rules'. The middle box is a lighter shade of orange and labeled 'Local Business Rules'. The bottom box is grey and labeled 'Technology-specific Business Rules'.

Global Business Rules

Local Business Rules

Technology-specific Business Rules

# PwC AI Technology onboarding

## Technology-specific controls

PwC applies a baseline of technical controls to each technology implementation.

Furthermore, each technology must go through the following steps:

- Registration
- Risk tiering – business criticality, data classification & Internet exposure
- Architecture Review
- Security testing – penetration testing, vulnerability scanning, etc.
- Code review & scanning (if applicable)
- Data Protection Risk Assessment
- Data Protection Impact Assessment (if applicable)
- Access Control model
- Business Continuity Plan





# Pre-requisites for M365 Copilot

## **Understand the importance of data classification**

Data Classification is essential to consider prior to implementing M365 Copilot, as it is grounded in user data.

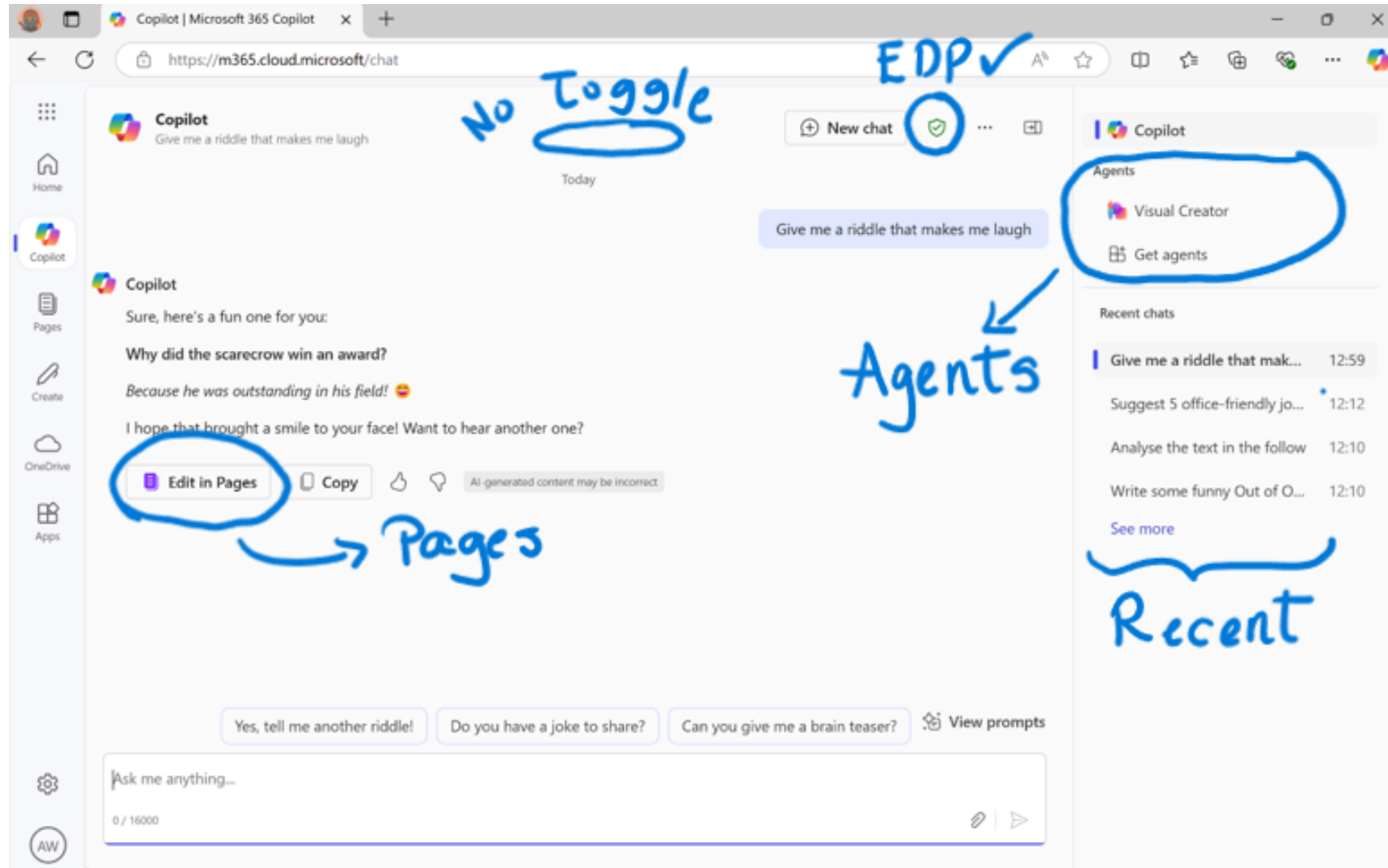
PwC implemented Data Classification using Azure Information Protection which is now Purview, in relation to the Confidentiality of data.

Purview allows the implementation of policies to exclude data, based on its classification, from processing by M365 Copilot.



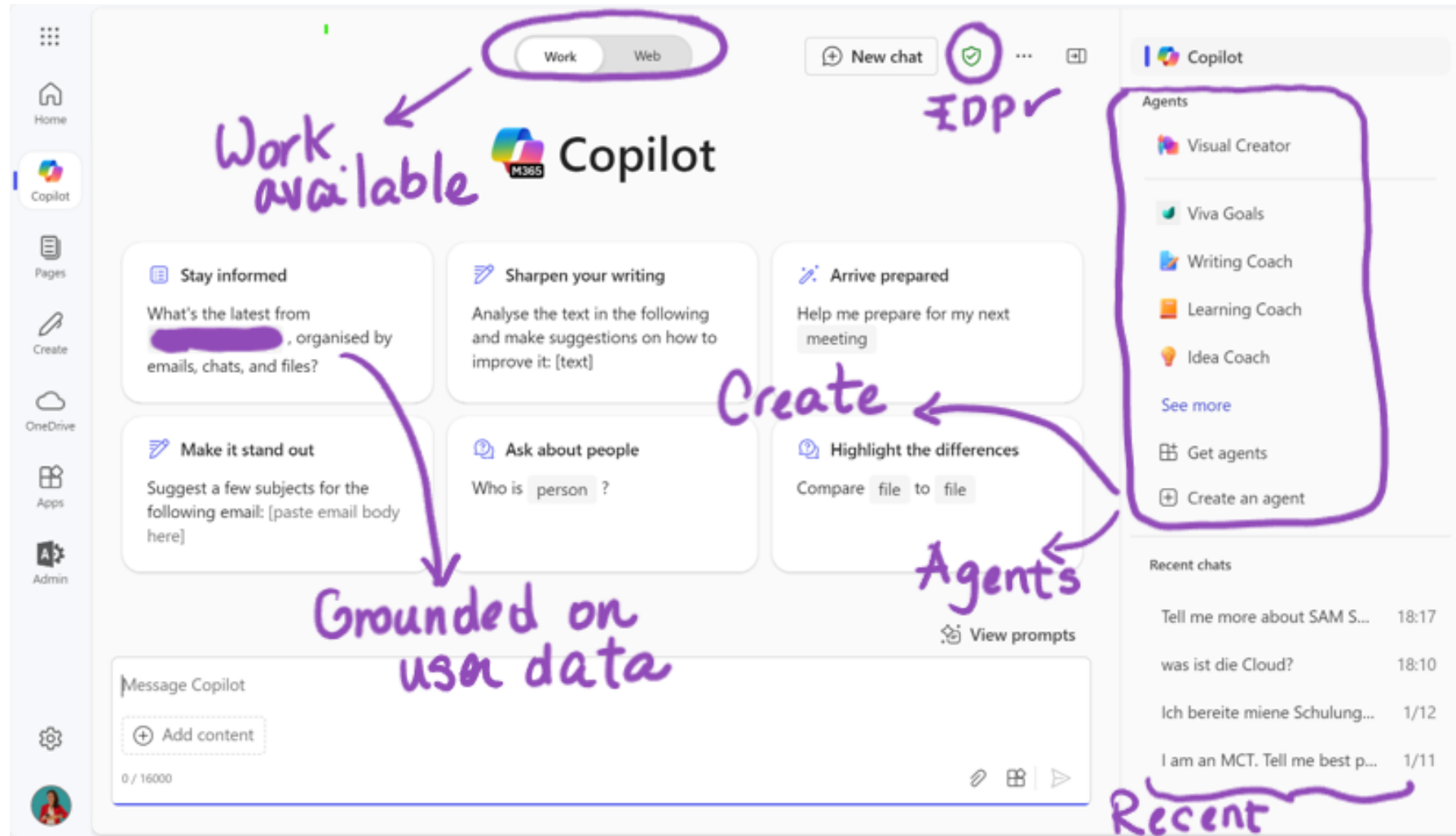
# What is Microsoft 365 Copilot Chat?

Copilot Chat is included at no additional cost within the M365 business subscription.



# What is Microsoft 365 Copilot?

M365 Copilot is an add-on available for specific Microsoft 365 subscription with a license to be activated on top.





# Security in the Age of AI

Kristoffer Rosenmeier, Microsoft





**1. What does AI mean for our data security?**

---

**2. How can AI be used to improve our security?**



Search

- Home
- Me
- Viva Insights
- Favorites

People

- Marc Vigneau
- Kim Akers (She/Her)
- Chris Bishop
- Lotte Vetler
- James Abrahams
- James Ryan

8 years ago

Are my documents safe in Delve?

Rene Artois  
Modified • Dec 1

PowerPoint

#TeamsFest

Decoding Teams Compliance

Teams Compliance - TeamsFest

Forza Roma 2019

Rene Artois  
Modified • Dec 1

PowerPoint

Microsoft 365

A Tenant Admin's Guide to the Microsoft 365 Substrate

Admins Guide to the Microsoft 365 Substrate

Forza Roma 2019

Popular

Word

The Demise of Office Delve

The demise of Office Delve

R&A Projects 11 views

Popular

Excel

Book Sales 2023

Book Sales 2023

Tony Redmond's OneDrive

You  
Modified • Yesterday

Word

Threat Actors Increase Misuse of OAuth Applications

Threat Actors Increase Misuse of OAuth Applications

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Word

Using Copilot for Word

Using Copilot for Word

R&A Projects 1 view

You  
Modified • Dec 8

Word

The Essence of Microsoft 365 PowerShell Scripting

The Essence of Microsoft 365 PowerShell Scripting

R&A Projects 28 views

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Word

Understanding the Exchange Mailbox Folder Assistant

Understanding the Exchange Mailbox Folder Assistant

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5 years ago

Outlook

Search

Home View Help

New Mail Delete Archive Sweep Move to Reply Reply All Forward

Focused Other By Date

Pinned

Wanda Howard  
The One and Only Moon  
Lorem ipsum dolor sit amet,  
12:55 PM

Today

Lydia Bauer  
Team Pictures  
@Katri, I uploaded all the pictures from o  
9:00 AM

Yesterday

Wanda Howard  
Tomorrow's Sync  
Can you share a link to the marketing do  
4:22 PM

Daisy Phillips  
Yoga Workshop  
Hey Katri, I know this last minute, but do y  
3:24 PM

3:07 PM  
ting our fall int  
M (30m) RSVP

Kristin Patterson (2)

Team Picture

Highly Co  
This messa

Lydia E  
To: K  
CC: H  
@Katri,  
yours to

Thanks,  
Lydia

Project

### Cloud native

View summary Follow

Alternate names Osprey project

With Planet Blue we aim to address the global challenges we face, primarily those related to climate and environmental degradation. This initiative aims to achieve a better and... More

People (8) >

- Miguel Garcia  
Program Manager  
Project lead and roadmap owner
- Mona Kane  
Senior Engineer  
Project engineering lead

Resources (10+) >

- Consumer drones FY23 lineup  
Annie Lindqvist modified on Mon at 3:15pm  
Comprehensive overview of the project

Wanda

See 4 more messages

Lydia Bauer  
Hi everyone, please find attached document for Wednesday's offsite regarding...  
Yesterday at 9:00 AM

Monarch Project Update  
1:30 PM

New Outlook

# 1 2

9:00 AM

#Cloud native. Henri, can you add



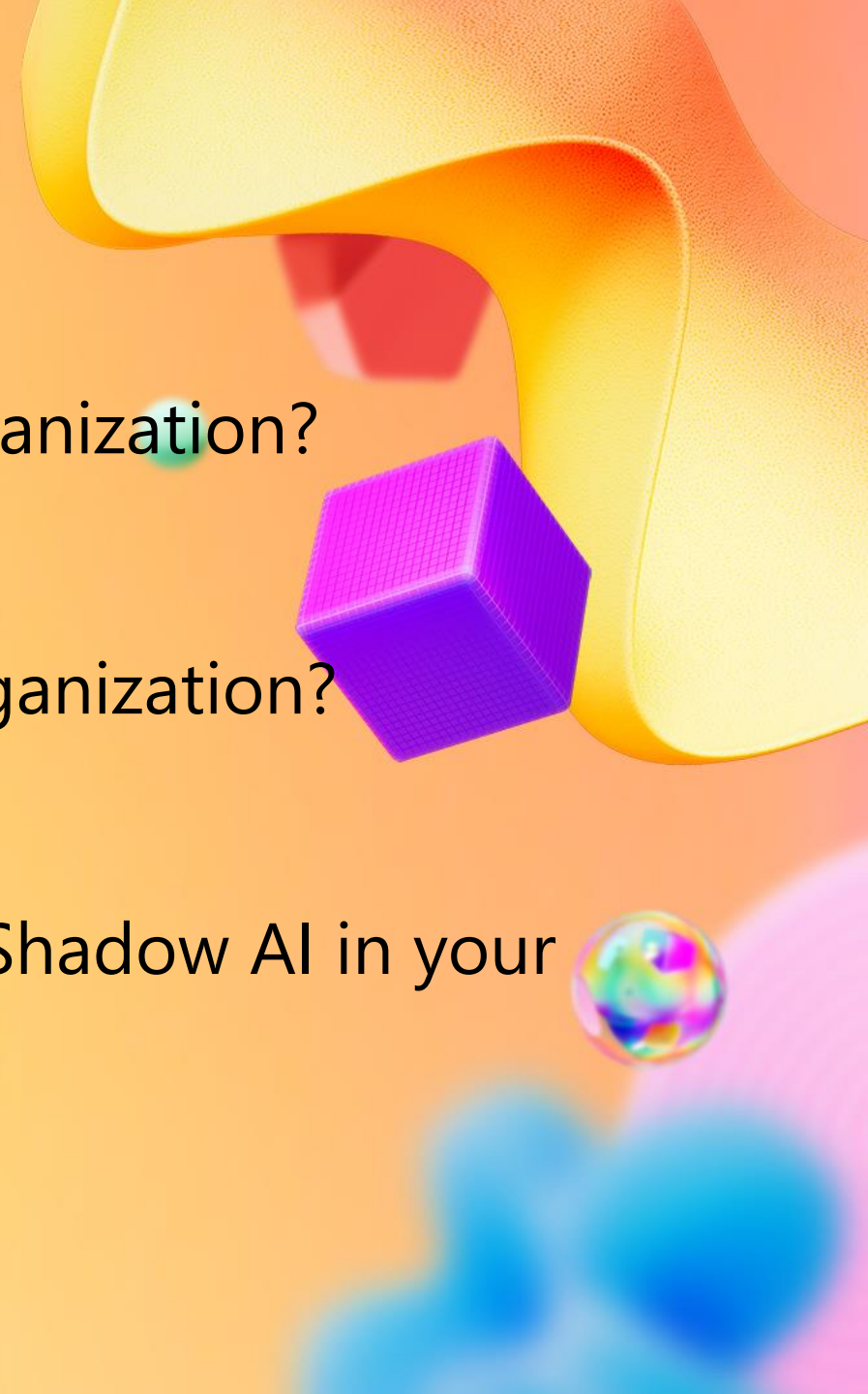
Your AI assistant for work

**Last year**



# Conversation starters

- How do you secure the use of AI in your organization?
- How do you govern the use of AI in your organization?
- How do you monitor and secure the use of Shadow AI in your organization?





# Conversation starters

- "We don't have to, since we've built our own"
- "We don't have to, we're using a third party enterprise app"
- "We have a policy that states how employees should use Gen AI"
- "We trust our employees"

# Top security and governance concerns about generative AI

Data oversharing  
and data leaks

80%

of leaders cited leakage of  
sensitive data as their main  
concern<sup>1</sup>

Identification of  
risky AI use

41%

of security leaders cited that the  
identification of risky users based  
on queries into AI was one of the  
top AI controls they want to  
implement<sup>2</sup>

AI governance and  
risk visibility

84%

Want to feel more confident  
about managing and  
discovering data input into AI  
apps and tools<sup>2</sup>

1. First Annual Generative AI study: Business Rewards vs. Security Risks, Q3 2023, ISMG, N=400

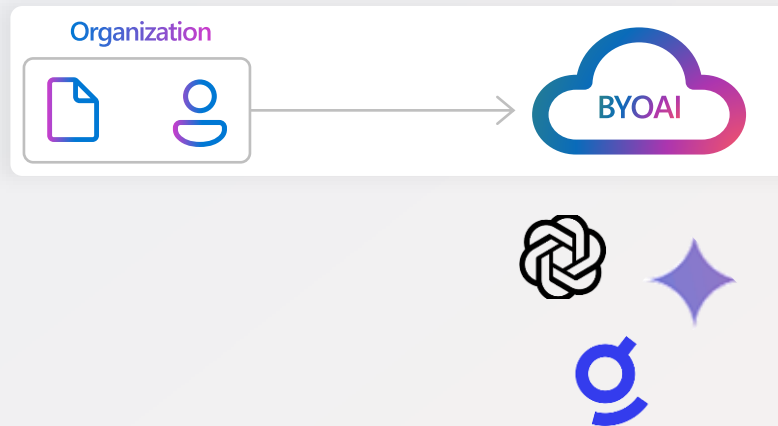
2. [Microsoft data security index 2024 report](#)

# Typical customer concerns

## Shadow AI

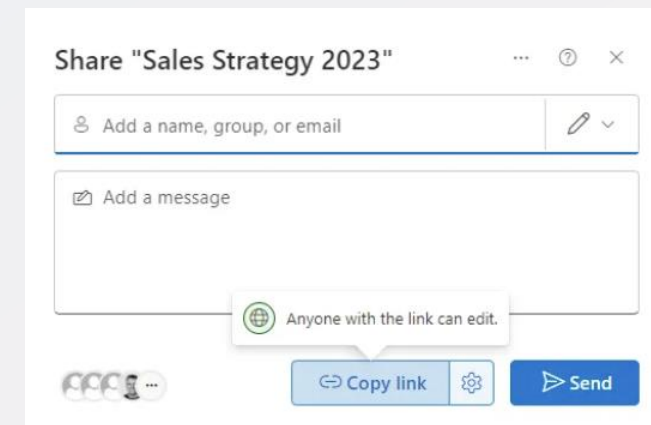
Sensitive data (e.g. PII, IP) might be shared with Shadow AI apps, creating risk of:

- Leakage
- Malicious use
- To train 3rd party algorithms



## Oversharing

Organizations are worried about the risks of data oversharing and leaks, fearing that GenAI tools might provide quicker access to content without proper permissions, thereby making sensitive files easier to find



Home

Solutions

Learn

Settings

Data Map

DSPM for AI

Insider Risk Managem...

eDiscovery

Compliance Manager

DSPM for AI

Overview

Recommendations

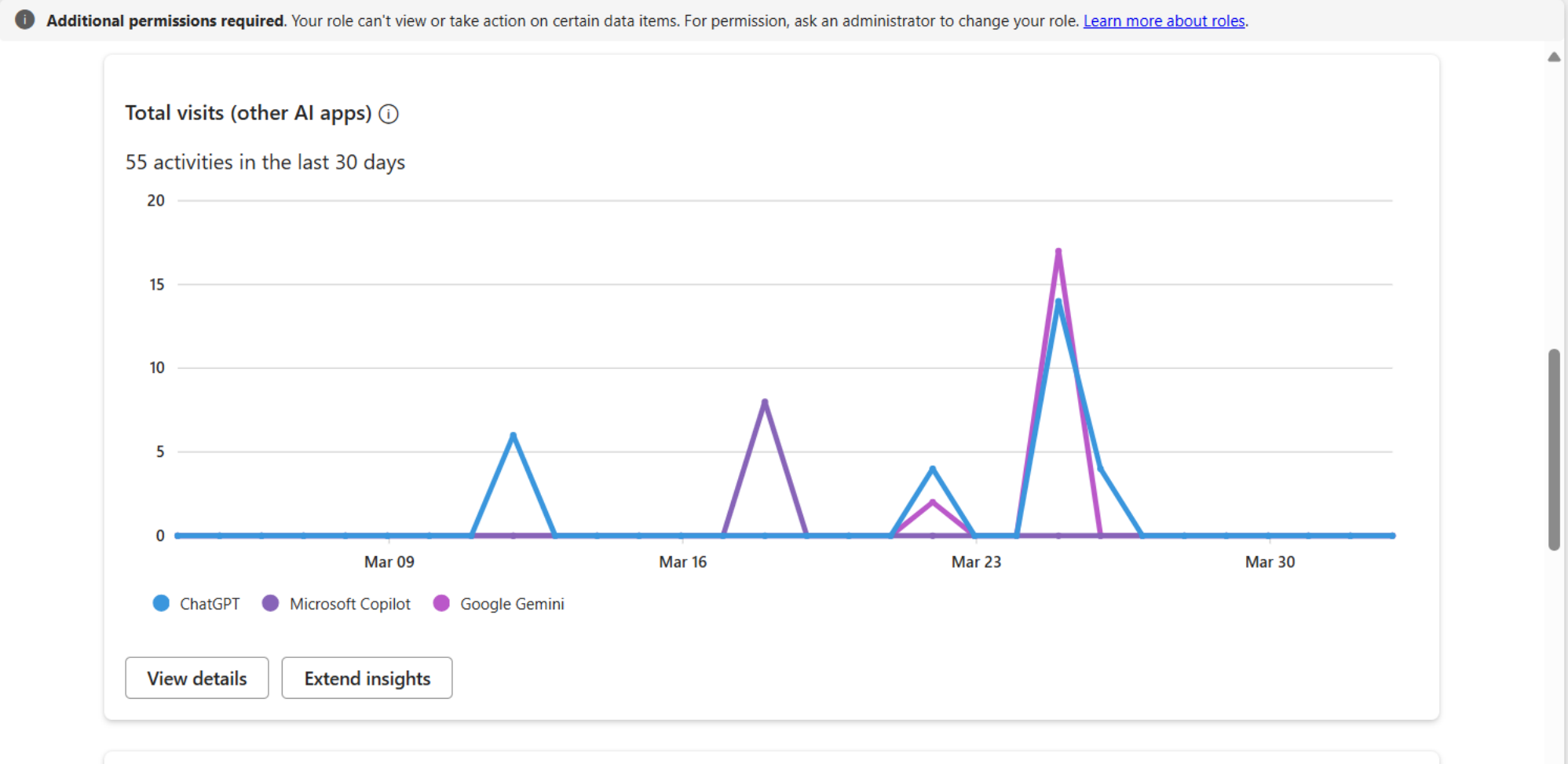
Reports

Policies

Activity explorer

Data assessments

Preview





Home



Solutions



Learn



Settings



Data Map



DSPM for AI



Insider Risk Managem...



eDiscovery



Compliance Manager



DSPM for AI



Overview



Recommendations



Reports



Policies



Activity explorer



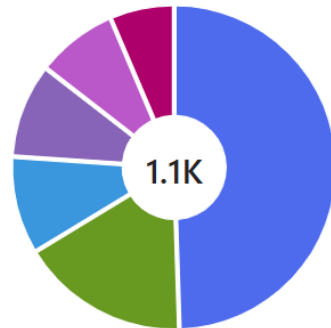
Data assessments

Preview

**Additional permissions required.** Your role can't view or take action on certain data items. For permission, ask an administrator to change your role. [Learn more about roles.](#)

### Sensitive interactions per AI app

Sensitive information types shared with Microsoft Copilot and other AI apps.



Microsoft Copilot



AI for negotiations



ChatGPT



Google Gemini

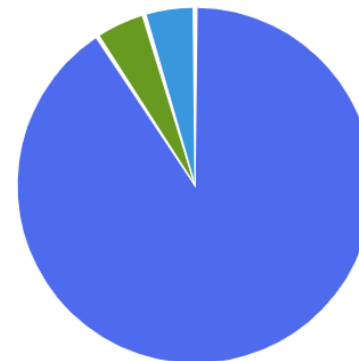


Other All Full Names All Medical Terms And Conditions Project Obsidian Employee ID Finance

[View details](#)[Extend insights](#)

### Top unethical AI interactions

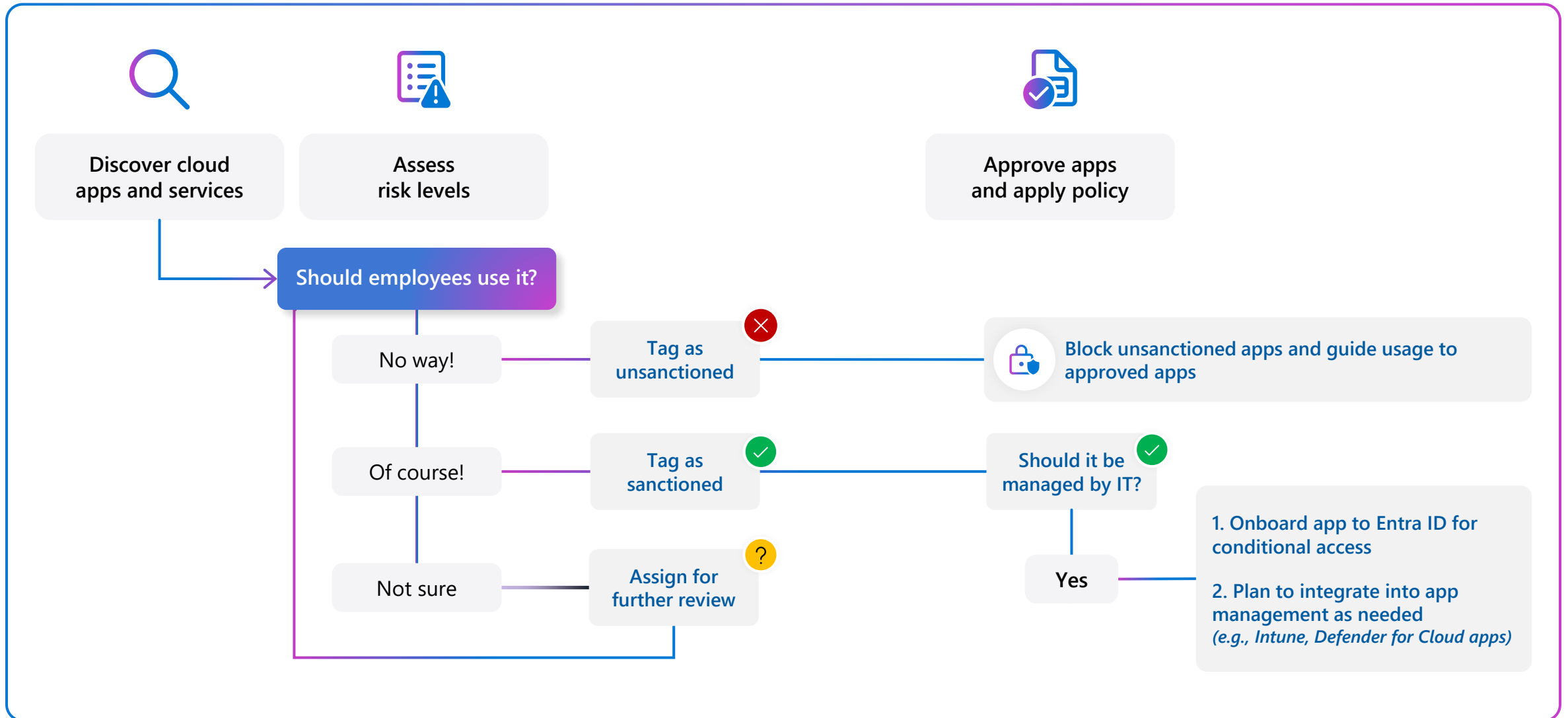
Potentially unsafe or inappropriate interactions within Microsoft 365 Copilot.



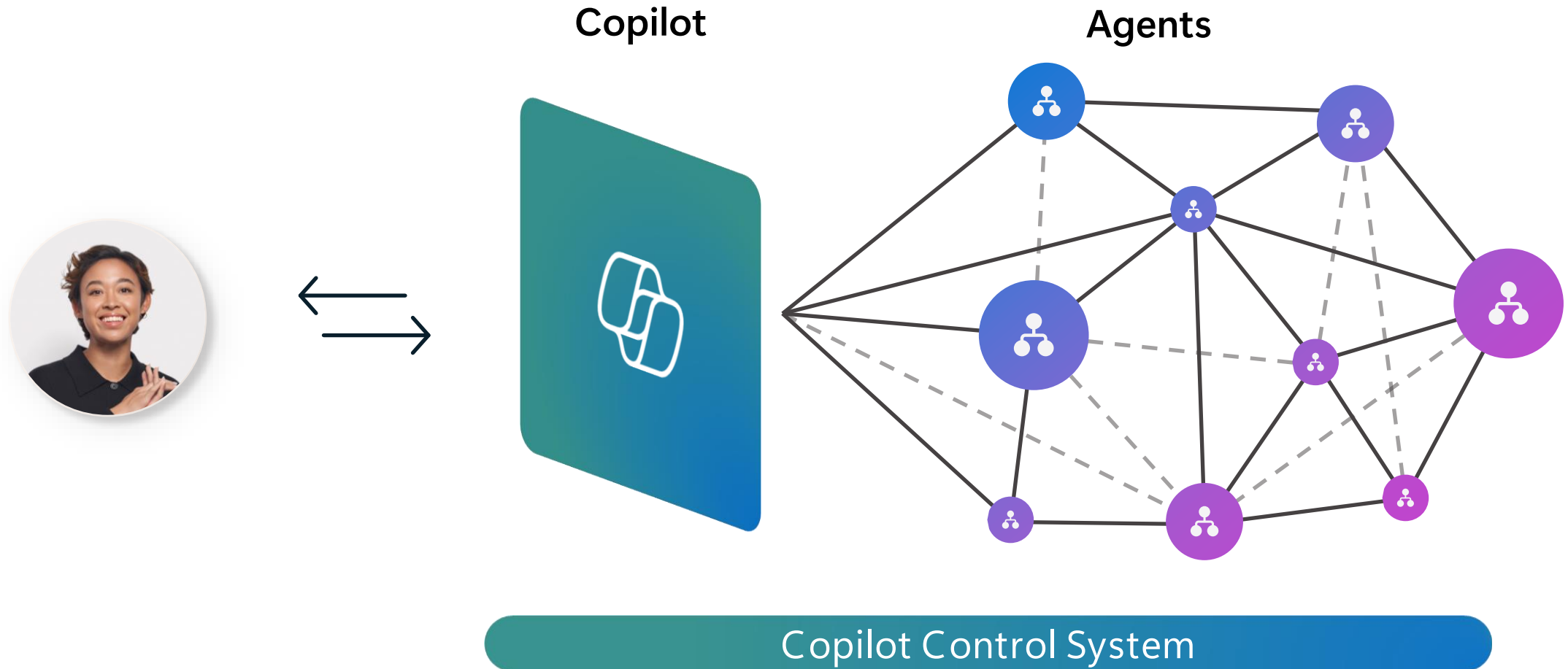
Unauthorized Disclosure Regulatory Collusion Money Laundering



# Discover and manage apps in your environment



# Copilot is the UI for AI





Microsoft  
commitments  
and controls



**Microsoft 365  
Copilot is built  
on trust**



Tools to manage  
your data

# M365 Copilot – Compliance Certifications

1. Our other ISO certifications cover ISO 9001 clauses, as stated in customer-facing footnote. So far, we haven't seen customer demand for ISO 9001 certification, which focuses on quality management systems. If Marketing and CxE teams see demand for ISO 9001, we can then plan and resource accordingly.
2. Like other M365 services, Microsoft 365 Copilot and Copilot Chat meet the requirements of the CSA STAR. We are planning to update our current CSA STAR attestation to formally include Microsoft 365 Copilot in the scope by Q3 CY25.
3. Microsoft 365 Copilot and Copilot Chat are in the process of securing Fed RAMP High certification, with completion anticipated by Q4 CY25.

● Included	Microsoft 365 Copilot & Chat
SOC2 Type 1	●
SOC2 Type 2	In Progress
ISO 27001	●
ISO 27017	●
ISO 27018	●
ISO 27701	●
ISO 9001	N/A <sup>1</sup>
ISO 42001	●
CSA STAR	In Progress <sup>2</sup>
GDPR	●
CCPA	●
HIPAA	●
FedRAMP High	In Progress <sup>3</sup>
BSI C5	●

## Microsoft commitments and controls



We secure your data  
at rest and in transit



You control your  
data



Your data is not used  
to train or enrich  
foundation models



You're protected  
against AI security and  
copyright risks<sup>1</sup>



# Microsoft 365 Copilot is built on trust

<sup>1</sup> [Learn more about the Customer Copyright Commitment](#)



# Microsoft's new European digital commitments

- 1 We will help build a broad AI and cloud ecosystem across Europe.
- 2 We will uphold Europe's digital resilience even when there is geopolitical volatility.
- 3 We will continue to protect the privacy of European data.
- 4 We will always help protect and defend Europe's cybersecurity.
- 5 We will help strengthen Europe's economic competitiveness, including for open source.

# Prepare data for Copilot by ensuring correct access to files

## What is oversharing?



Copilot only accesses data that an individual user is authorized to access



Oversharing happens when an employee has access to information beyond what is necessary to do their jobs

## What causes oversharing?



Accidentally saving a file to a location with broad access permissions



A user sharing content with someone who should not have access



Files do not have access protections

Microsoft Purview

Preview

Home

DSPM for AI

Overview

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Policies

Activity explorer

Data assessments

Assessment for the week of November 1, 2024

Assessment info

Description  
Default assessment

Total items  
22842

Sources included  
105

Users included  
100

[View assessment details](#)

Total items

22.8K

Scanned for sensitive info types

Not scanned

Sensitivity labels on data

Labeled

Not labeled

No sensitive info types detected

Sensitive info types detected

Data

Sources

Data source ID	Source type	Total items	Total items accessed	Times users accessed items	Unique users accessing items
/sites/ObsidianMerger/	SharePoint	47000	4432	8076	700
/sites/Contoso	SharePoint	65784	873	938	456
/sites/Jasper	SharePoint	76845	653	783	243

Obsidian Merger

OverviewProtectMonitor

Limit Microsoft 365 Copilot access to this site

Choose how you would like Copilot to access data in this SharePoint site.

Restrict access by label

Microsoft Purview Data Loss Prevention

Restrict all items

SharePoint Restricted Content Discovery

Labels found in this site

Sensitivity labels

8

[View all labels](#)

Labels referenced by Copilot

5

[View labels referenced](#)

Use a Microsoft Purview Data Loss Prevention policy to limit access to any files in your organization with sensitivity labels. [Learn more about this policy](#)

Steps at a glance

1. Go the Data Loss Prevention in Microsoft Purview portal.

2. Create new policy. Select "Policies" to create a new policy

3. Choose a custom policy. Select Custom policy in the Custom category

4. Customize your policy. Name your policy, and then select "Microsoft 365 Copilot" in the location.

5. Create an new advanced DLP rule.

6. Add labels you want to excluded. In the fields for the new rule, Select "Content contains sensitivity labels" and add the labels

7. Select an action. Choose "Exclude Copilot from processing"

8. Save the rule and the policy.

Other labeling policies

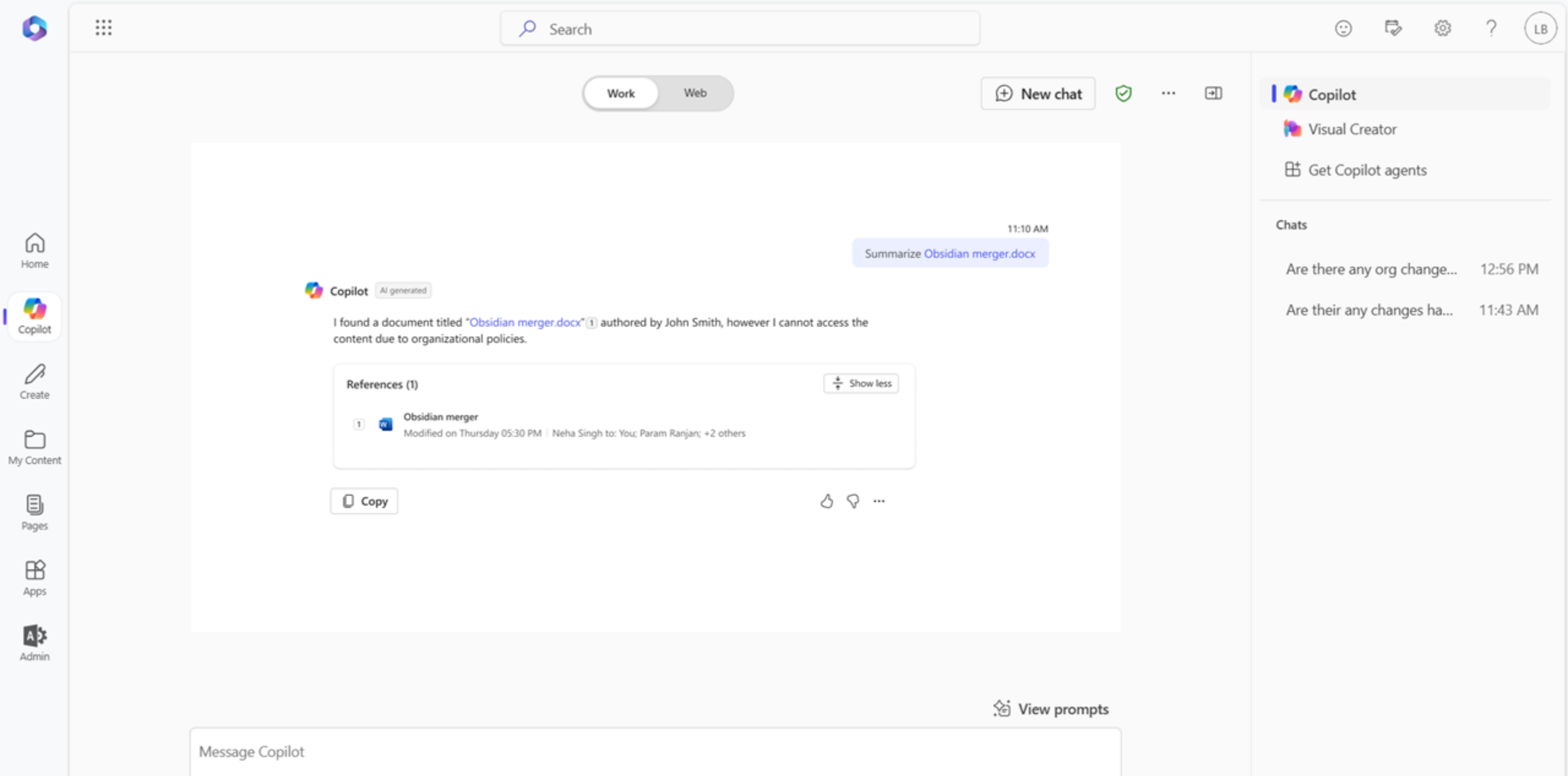
Default sensitivity label for SharePoint document library

When a default sensitivity label gets created, the label will only apply to new items added to the site. Select a sensitivity label within the SharePoint site.

Oversharing assessments help identify overshared sites and content and provide recommended actions to mitigate risks.

/sites/Marketing	SharePoint	87593	3759	8190	74
------------------	------------	-------	------	------	----

Label all new items by default using sensitivity labels. Labels can have no protection or protection defined by the admin.



Purview DLP for Microsoft 365 Copilot policy can prevent Copilot from using sensitive data to generate responses.

# Dynamically apply security policies based on risky actions

A user performs a series of risky actions

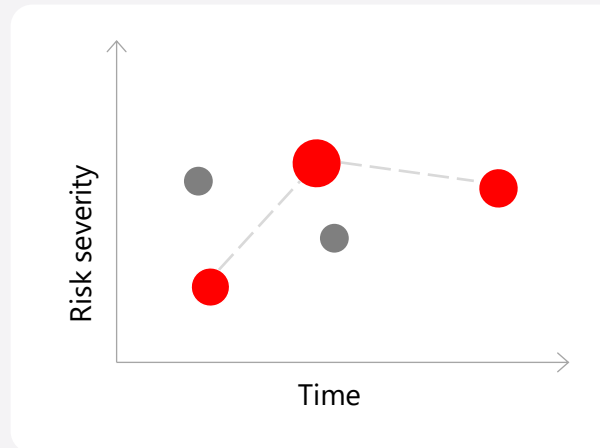


**Actions deviate from usual pattern of behavior**

- Has a series of risky interactions via Copilot
- Downloads 100s of files containing sensitive data



Identifies the sequence of events as a risky pattern



**Uses AI for risk analysis**



Automatically adds the user to more strict security policies



**Block actions until investigated**

- Can't access content in sensitive sites
- Prevent sharing or downloading content
- Block from deleting content

**Balance productivity and risk mitigation**



# Powerful tools to address oversharing



## Microsoft 365 Copilot\*

- Identify potentially overshared sites
- Enlist site owners to address access
- Restrict user and/or Copilot access to risky sites while remediating risks
- Remove organization-wide site access as needed
- Improve Copilot responses by archiving or deleting unneeded sites



## Microsoft Purview

- Identify potentially overshared sites and files
- Create oversharing assessments targeted to specific Microsoft 365 locations
- Prevent Copilot from processing certain sensitive files and from using them in responses
- Receive and act on policy suggestions to mitigate your specific oversharing risks
- Get notifications when new oversharing occurs with options for remediation
- Secure sensitive data through file level access controls and Data Loss Prevention policies
- Improve Copilot responses by archiving or deleting unneeded files

\* Provided by SharePoint Advanced Management.

# Microsoft deployment blueprint to implement internal oversharing protections for Microsoft 365 Copilot

Customers with E3

Foundational

LEGEND

1 – Copilot and SharePoint Adv. Mgt.

2 – OE3/ME3

## Address internal oversharing concerns in Microsoft 365 Copilot

Realize value quickly with Copilot by reviewing potential content sharing risks and optionally enabling Restricted SharePoint Search to address risk to enable full Copilot deployment

Select services are included in your FastTrack benefit. Other critical services are available thru Microsoft Unified or our Partner Ecosystem

Phase	Pilot (Optional)	Deploy	Operate
Effort	2–4 days	2–4 weeks	1+ months
Deployment steps	<ol style="list-style-type: none"><li><b>1. Identify the most popular sites &amp; assess oversharing</b><ul style="list-style-type: none"><li>Export the top 100 most used sites from SPO admin center</li><li>Run SAM permission state report<sup>1</sup></li><li>Use Purview Content Explorer to view which sites contain sensitive information types (SITs)<sup>2</sup></li></ul></li><li><b>2. Grant Copilot access to popular, low risk sites</b><ul style="list-style-type: none"><li>Cross reference the report results from SAM and Purview Content Explorer with the top 100 used sites to identify up to 100 sites to be allowed for Copilot discovery<sup>1,2</sup></li><li>Optionally enable Restricted SharePoint Search (RSS) for up to 100 sites identified<sup>1</sup></li></ul></li><li><b>3. Turn on proactive audit and protection</b><ul style="list-style-type: none"><li>Turn Off EEEU (everyone except external users) at the tenant level<sup>3</sup></li><li>Turn on Audit and view Copilot interaction activity reports and charts<sup>1,2</sup></li><li>Turn on oversharing SPO Purview DLP policy in simulation mode to detect anyone sharing links for labeled and unlabeled data<sup>3</sup></li></ul></li></ol>	<ol style="list-style-type: none"><li><b>1. Discover oversharing risks</b><ul style="list-style-type: none"><li>Use permission state report with SITs to flag sites and files that are potentially overshared (includes: EEEU, company shared links)<sup>1</sup></li><li>Identify Copilot agent insights &amp; take actions<sup>1</sup></li></ul></li><li><b>2. Restrict sensitive info from Copilot access and/or processing</b><ul style="list-style-type: none"><li>Initiate Access Review for all sites that are overshared<sup>1</sup></li><li>Apply restricted access control (RAC) on business-critical sites<sup>1</sup></li><li>Exclude critical sites from Copilot reasoning over them<sup>1</sup></li></ul></li><li><b>3. Increase site privacy</b><ul style="list-style-type: none"><li>Publish labels to Office apps, Container/Sites, Outlook for manual data protection by user<sup>2</sup></li><li>Use site labels to limit access to org-wide sharing by marking sites as "Private" and giving access only to site members<sup>2</sup></li><li>Turn on enforce-mode oversharing SPO DLP policy to restrict access to sensitive data exposure &amp; starting remediating them<sup>2</sup></li><li>Disable RSS (if enabled) to allow full Copilot experience<sup>1</sup></li></ul></li></ol>	<ol style="list-style-type: none"><li><b>1. Further reduce risk and simplify oversight</b><ul style="list-style-type: none"><li>Routinely run the SAM site lifecycle management policy's site ownership policy and review the ownerless sites and assign owners<sup>1</sup></li><li>Automate SAM permission state report to maintain permissions hygiene<sup>1</sup><ul style="list-style-type: none"><li>Automate permission reports and actions to maintain permission hygiene<sup>1</sup></li><li>Regularly review oversharing reports and restrict access as needed<sup>1</sup></li><li>Proactively avoid oversharing by applying RAC at site provisioning<sup>1</sup></li><li>Periodically review inactive sites and take necessary action<sup>1</sup></li><li>Control site provisioning by allowing creation for users that complete training<sup>1</sup></li></ul></li><li>Use change history to identify site changes that may cause oversharing<sup>1</sup></li><li>Continuously manage all your oversharing DLP alerts via the Microsoft Purview Portal<sup>2</sup></li></ul></li><li><b>2. Further secure sensitive data</b><ul style="list-style-type: none"><li>Reduce risk by remediating alerts for overshared documents from the SPO DLP policy and applying sensitive labels<sup>2</sup></li></ul></li><li><b>3. Improve Copilot responses</b><ul style="list-style-type: none"><li>Setup retention/deletion policies for SharePoint to reduce data surface<sup>2</sup></li><li>Identify inactive sites, then restrict access or delete<sup>1</sup></li></ul></li></ol>

Guidance assumes Copilot technical prerequisites in place: Technical enablement of core services (Teams, SharePoint, Exchange), Office Applications deployed (modern Outlook recommended) and on current or monthly update channel

Learn how to use the features in the blueprint and how these features impact Microsoft 365 Copilot: <https://aka.ms/E3PrepareYourDataForCopilot>

Last updated December 10, 2024

Customers with E5

Optimized

LEGEND

1 – Copilot and SharePoint Adv. Mgt.

2 – OE3/ME3

3 – ME5/ES Compliance

## Address internal oversharing concerns in Microsoft 365 Copilot

Realize value quickly with Copilot by reviewing potential content sharing risks and optionally enabling Restricted SharePoint Search to address risk to enable full Copilot deployment

Select services are included in your FastTrack benefit. Other critical services are available thru Microsoft Unified or our Partner Ecosystem

Phase	Pilot (Optional)	Deploy	Operate
Effort	2–4 days	2–4 weeks	1+ months
Deployment steps	<ol style="list-style-type: none"><li><b>1. Identify the most popular sites &amp; assess oversharing</b><ul style="list-style-type: none"><li>Export the top 100 most used sites from SPO admin center</li><li>Run SAM permission state report<sup>1</sup></li><li>Run the Purview DSPM for AI Data assessments to gain visibility into all data at risk of Copilot access, pivoted on labels and sensitive information types<sup>1</sup></li></ul></li><li><b>2. Grant Copilot access to popular, low risk sites</b><ul style="list-style-type: none"><li>Cross reference the report results from SAM and Purview DSPM for AI with the top 100 used sites to identify up to 100 sites to be allowed for Copilot discovery<sup>1,2</sup></li><li>Optionally enable Restricted SharePoint Search (RSS) for up to 100 sites identified<sup>1</sup></li></ul></li><li><b>3. Turn on proactive audit and protection</b><ul style="list-style-type: none"><li>Turn Off EEEU (everyone except external users) at the tenant level<sup>3</sup></li><li>Turn on Purview Audit and view Copilot interaction activity reports and charts<sup>1,2</sup></li><li>Turn on proactive analysis for sensitive data handling with prompts and responses with Purview Communications Compliance<sup>3</sup></li><li>Turn on oversharing SPO Purview DLP policy in simulation mode to detect anyone sharing links for labeled and unlabeled data<sup>3</sup></li></ul></li></ol>	<ol style="list-style-type: none"><li><b>1. Discover oversharing risks</b><ul style="list-style-type: none"><li>Use DAC permission state report with SITs to flag sites and files that are potentially overshared (includes: EEEU, company shared links)<sup>1</sup></li><li>Identify Copilot agent insights &amp; take actions<sup>1</sup></li><li>Create customized Purview DSPM for AI Data assessments to scale out data security actions, pivoted on labels and sensitive information types<sup>1</sup></li></ul></li><li><b>2. Restrict sensitive info from Copilot access and/or processing</b><ul style="list-style-type: none"><li>Initiate SAM Access Review for all sites that are overshared<sup>1</sup></li><li>Apply SAM restricted access control (RAC) on business-critical sites<sup>1</sup></li><li>Exclude critical sites from Copilot reasoning over them with SAM Restricted Content Discovery (RCD)<sup>1</sup></li><li>Publish sensitivity labels with Purview Information Protection to Office apps, Container/Sites, Outlook for manual data protection by user<sup>2</sup></li><li>Exclude Copilot from summarizing sensitive content via sensitivity labels<sup>3</sup></li></ul></li><li><b>3. Increase site privacy</b><ul style="list-style-type: none"><li>Use site sensitivity labels to limit access to org-wide sharing by marking sites as "Private" and giving access only to site members<sup>2</sup></li><li>Apply default site library sensitivity labels to protect new and modified unlabeled documents<sup>2</sup></li><li>Turn on enforce-mode oversharing SPO Purview DLP policy to restrict access to sensitive data exposure &amp; starting remediating them<sup>2</sup></li><li>Disable RSS (if enabled) to allow full Copilot experience<sup>1</sup></li></ul></li></ol>	<ol style="list-style-type: none"><li><b>1. 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Further secure sensitive data</b><ul style="list-style-type: none"><li>Automatically label new documents and prevent them from oversharing with run time auto-labeling policy, starting with client-side policies and extend to service-side policies<sup>2</sup></li><li>Reduce risk by remediating alerts for overshared documents from the SPO Purview DLP policy by applying sensitive labels and disabling anyone access<sup>2</sup></li></ul></li><li><b>3. Improve Copilot responses</b><ul style="list-style-type: none"><li>Setup Purview retention/deletion policies for SharePoint to reduce data surface<sup>2</sup></li><li>Identify inactive sites with SAM, then restrict access or delete<sup>1</sup></li></ul></li></ol>

Guidance assumes Copilot technical prerequisites in place: Technical enablement of core services (Teams, SharePoint, Exchange), Office Applications deployed (modern Outlook recommended) and on current or monthly update channel

Learn how to use the features in the blueprint and how these features impact Microsoft 365 Copilot: <https://aka.ms/ESPrepareYourDataForCopilot>

Last updated December 10, 2024

Get the blueprint:

<https://aka.ms/Copilot/OversharingBlueprintLearn>

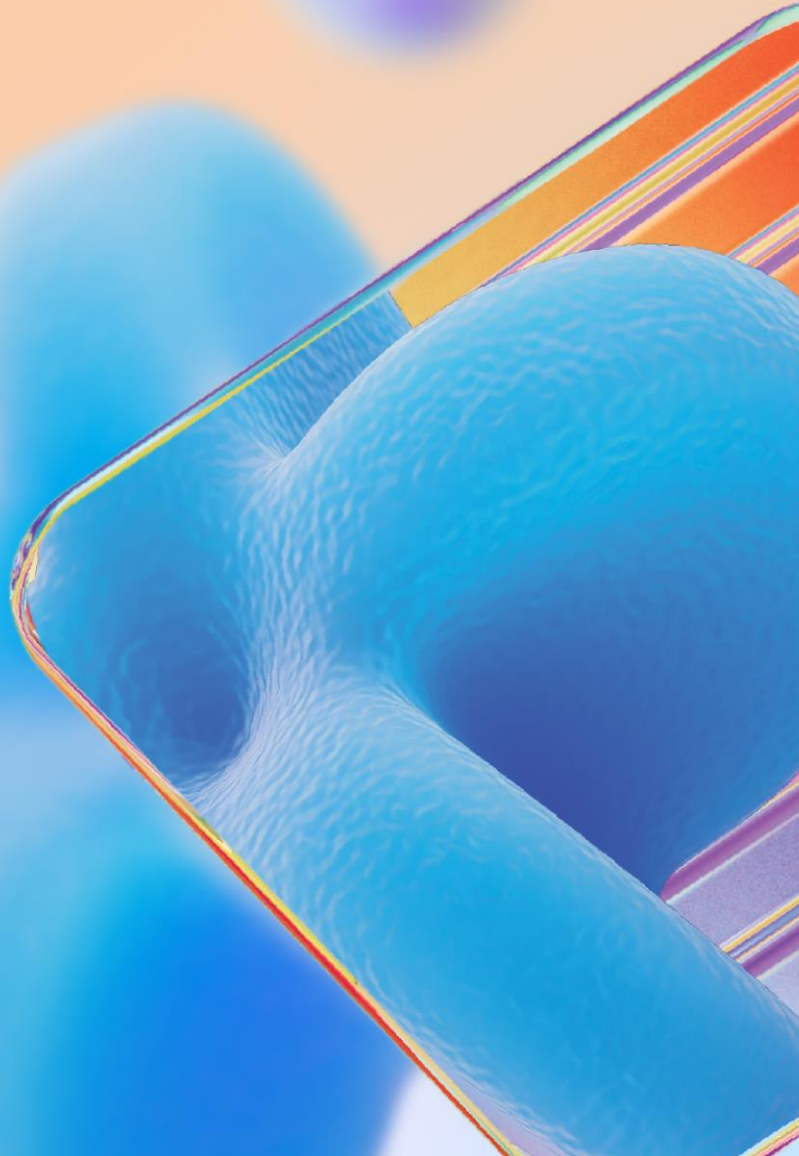
# Secure and Govern Microsoft 365 Copilot licensing

		Foundational		Optimized
		Microsoft 365 Copilot*	Microsoft 365 Copilot* + Microsoft 365 E3	Microsoft 365 Copilot* + Microsoft 365 E5 Compliance
Address oversharing concerns	Identify potentially overshared sites and files across all of Microsoft 365	✓ Sites	✓ Sites	✓ Sites and files
	Create oversharing assessments targeted to specific Microsoft 365 locations			✓
	Restrict user and/or Copilot access to risky sites while remediating risks	✓	✓	✓
	Prevent Copilot from processing certain sensitive files and from using them in responses			✓
	Receive and act on policy suggestions to mitigate your specific oversharing risks			✓
	Remove organization-wide site access as needed	✓	✓	✓
	Get notifications when new oversharing occurs with options for remediation		✓	✓
	Secure sensitive data through file level access controls and Data Loss Prevention policies		✓	✓
	Improve Copilot responses by archiving or deleting unneeded content	✓ Sites	✓ Sites and files	✓ Sites and files
Protect against data loss and insider risk	View reports of sensitive data and unprotected files referenced in Copilot interactions		✓	✓
	Get alerted to risky AI use, such as an attempted prompt injection attack			✓
	View prompt and response text and referenced files		✓ via search	✓ via search or alerts
	Detect when content contains sensitive data and ask the user to manually apply protections		✓	✓
	Detect when content contains sensitive data and auto-apply protections			✓
	Copilot response and Copilot created documents inherit sensitivity label and protections		✓	✓
	Block Copilot access to files with a specific sensitivity label			✓
	Protect files even if they are moved or downloaded		✓	✓
	Get alerted to risky user actions that deviate from their usual pattern of behavior			✓
	Correlate and sequence risk alerts to identify high severity risk patterns for a user			✓
	Automatically add a user to more strict security policies based on their risk patterns			✓
Govern AI use to meet regulations & policies	Audit Copilot interactions to access detailed log information		✓	✓
	Enforce retention and deletion policies for Copilot interactions and meeting recordings + transcripts		✓	✓
	Include a user's Copilot prompts and responses in a legal hold		✓	✓
	Receive an alert if a possible compliance or ethical violation occurs and start an investigation			✓
	Perform an admin search for litigation or an investigation and include Copilot generated content		✓	✓
	Assess and track adherence to regulatory frameworks			✓

\* Includes SharePoint Advanced Management

# Questions to ask your team:

- To what degree is oversharing taking place?
- Are we ready to onboard all users to Gen AI?
- Do we have controls available but not in use?



How can AI be used to  
improve our security?



Submit a prompt





# Navigating the complex threat landscape



**1,500+**

threat actors tracked  
by Microsoft



**58%**

of organizations use more  
than 40 security tools



**4M+**

global shortage  
of cybersecurity workers



# Hackers use AI too...

## Ransomware infection to full victim encryption

3 Days

2019



# Ransomware infection to full victim encryption

1 Day

2021



Today

<15 Minutes

# Security Copilot is built to solve these challenges

A generative AI-powered assistant for daily operations in security and IT  
that empowers teams to protect at the speed and scale of AI



for many use cases like:



Security investigation and remediation



Building and reverse engineering scripts



Risk exploration and posture management



Troubleshooting IT issues

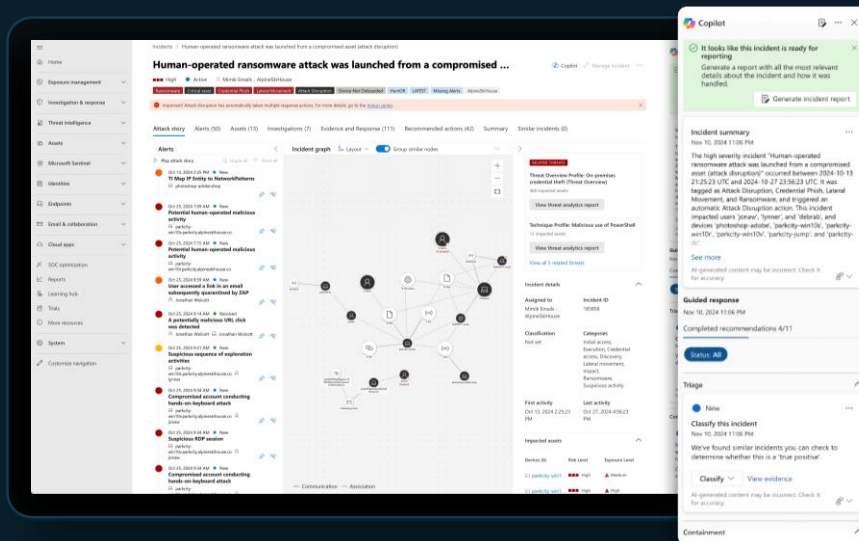


Policy creation and management

# Meet you where and how you work

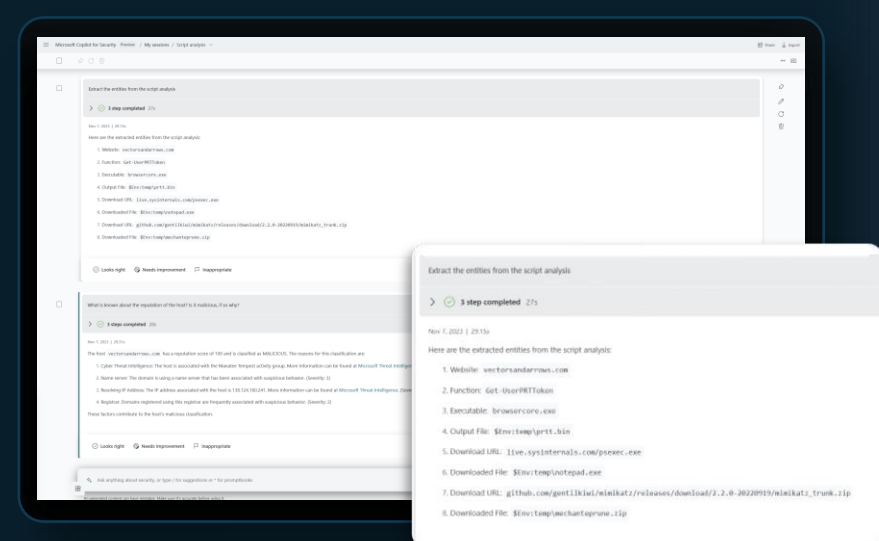
## Embedded

Offers the intuitive experience of getting Copilot guidance natively within the products that your team members already work from and are familiar with



## Standalone

Helps teams gain a broader context to troubleshoot and remediate incidents faster within Copilot itself, with many use cases in one place, enabling enriched cross-product guidance



## Automation

Helps teams accelerate response with built-in and custom promptbooks as well as integration with Logic Apps



# Copilot in Microsoft Purview



## Scaled visibility

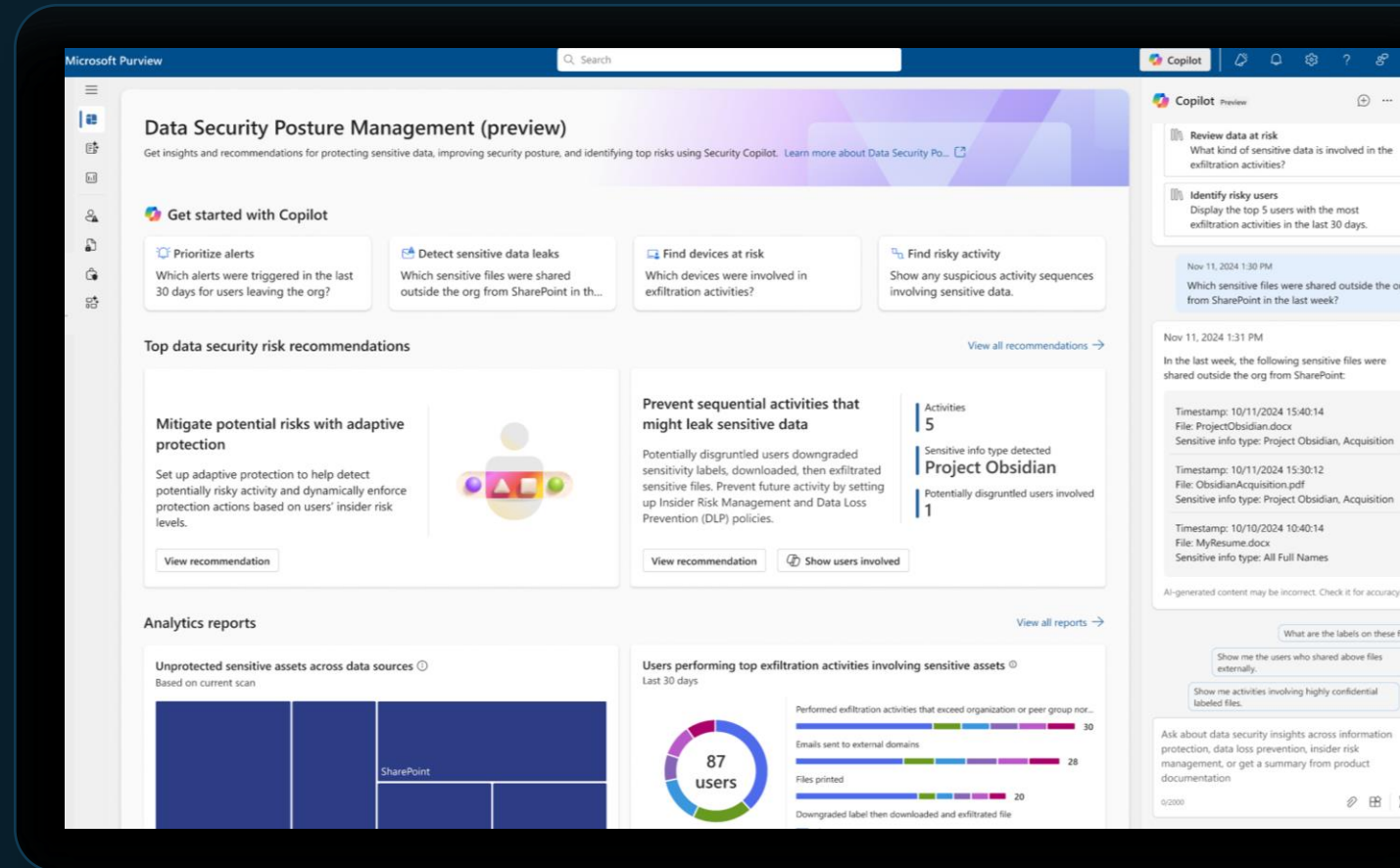
Gain comprehensive, integrated visibility across solutions and insight into relevant compliance regulatory requirements.

## Summarization for speed

Quickly summarize alerts containing a breadth of signals and lengthy content to review in the lens of data security and compliance policies.

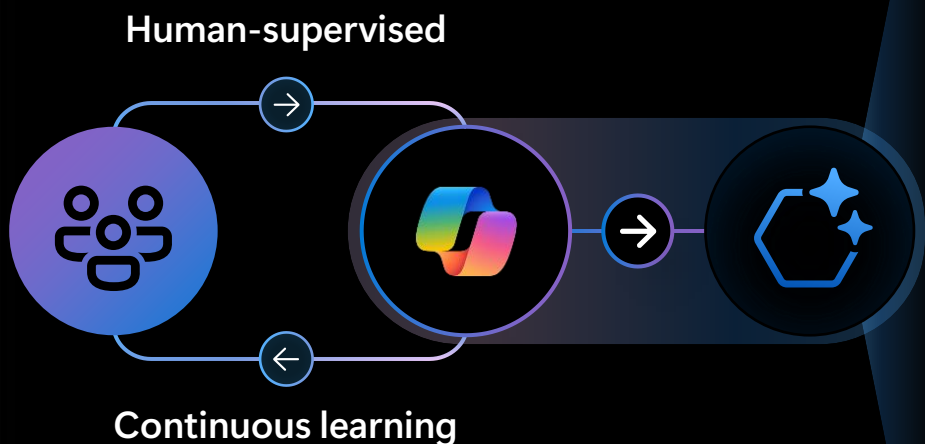
## Unlock expert skills

Receive step-by-step guidance, conduct searches in natural language, and conduct advanced investigations without keyword query language.






# Agents to empower roles across security and IT



## Microsoft Security


 Phishing Triage

 Alert Triage in DLP


 Alert Triage in IRM

 Conditional Access Optimization

 Vulnerability Remediation


 Threat Intelligence Briefing


## Partner ecosystem

 Privacy Breach Response  
by OneTrust


 SecOps Tooling  
by BlueVoyant

 Network Supervisor  
by Aviatrix

 Alert Triage  
by Tanium

 Task Optimizer  
by Fletch

 Email Threat Analyst  
by Performanta

 IAM Supervisor  
by Performanta

# Use cases for prompting across your security and IT team

## Security operations



CISO



Get executive summary and detailed reporting



SOC analyst



Accelerate investigation and remediation



Reverse engineer malicious scripts



Threat intelligence (TI) analyst



Enrich analysis with unified TI



Accelerate threat hunting

## Beyond the SOC



Data security admin



Proactive data security posture management



Discover protection gaps and streamline controls



IT admin



Risk investigation



Accelerate IT troubleshooting



Identity admin



Sign-in and risky user exploration



Lifecycle workflow management

# Questions to ask your team:

- Can we break down the siloes in the security team?
- Can we handle incidents and/or report on security across teams?
- Can we automate tasks to free up resources?
  - Security
  - Operations/management



Hopefully we have addressed...

**What AI means for your data security.**

---

**How AI can be used to improve your security.**



# Tackling AI Security Threats – What to do next?





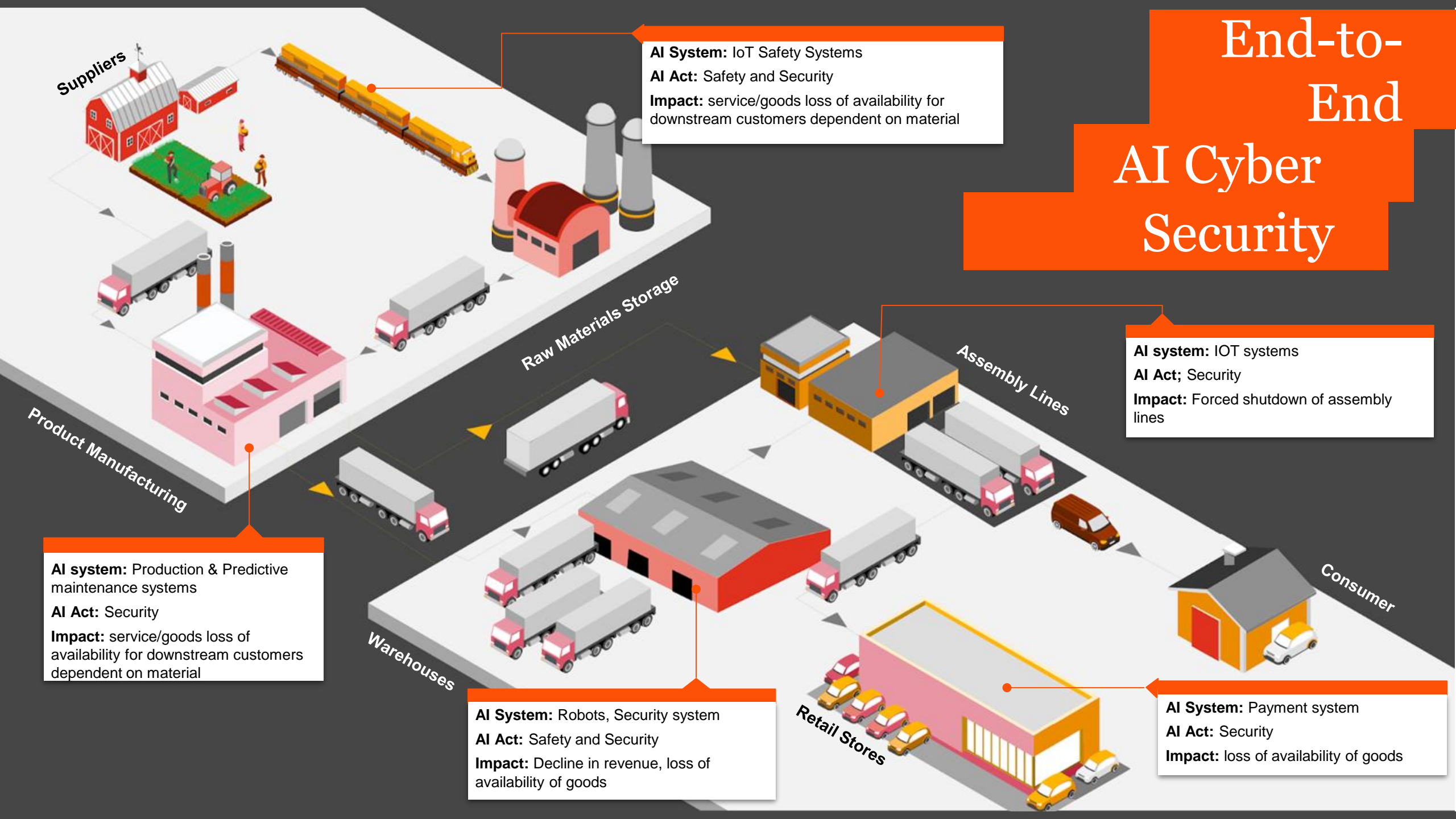
# PwC's Responsible AI Framework

Responsible AI at its core is simply good data science, governed by key guiding principles from strategy to execution





# End-to-End AI Cyber Security



**AI System:** IoT Safety Systems  
**AI Act:** Safety and Security  
**Impact:** service/goods loss of availability for downstream customers dependent on material

**AI system:** IOT systems  
**AI Act:** Security  
**Impact:** Forced shutdown of assembly lines

**AI system:** Production & Predictive maintenance systems  
**AI Act:** Security  
**Impact:** service/goods loss of availability for downstream customers dependent on material

**AI System:** Robots, Security system  
**AI Act:** Safety and Security  
**Impact:** Decline in revenue, loss of availability of goods

**AI System:** Payment system  
**AI Act:** Security  
**Impact:** loss of availability of goods



# How to get started:

## A “simple” Guide your Next Steps

**1**

**Create a full overview of the use of AI in your organization.**

**2**

**Classify each AI Application according to the EU AI Act by following guidelines and a structured methodology.**

**3**

**Perform formal risk assessments for each high-risk AI Application.**

**4**

**Implement relevant security controls.**



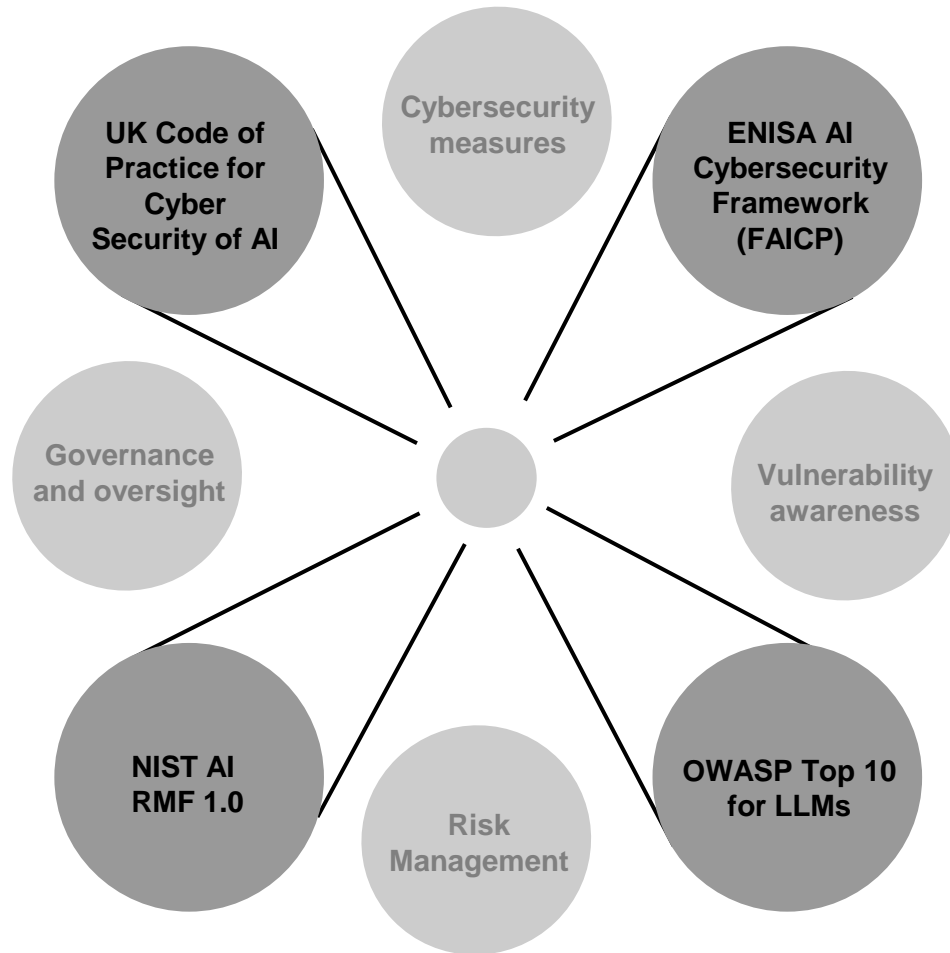
# AI Use-case vs. Application

## - Examples

Use case 1	<b>General assistance:</b> Employees using GenAI such as Microsoft CoPilot and ChatGPT.	Application 1	Microsoft Copilot
Use case 2	<b>Customer support:</b> Routine customer queries, reducing support workload and improving response times.	Application 2	ChatGPT
Use case 3	<b>Sales forecasting:</b> Predict future sales trends to help organizations make data-driven decisions.	Application 3	HireVue
Use case 4	<b>Fraud detection:</b> Detect suspicious transactions or behaviors in real time to prevent fraud and financial loss.	Application 4	Darktrace
Use case 5	<b>Document and invoice processing:</b> extracting data from documents, automating general tasks.	Application 5	Grammarly
Use case 6	<b>Recruiting and HR:</b> AI Screens resumes and matches candidates to roles.	Application 6	Microsoft Defender with AI
		Application 7	Google Gemini
		Application 8	Salesforce
		Application 9	Mailchimp AI



# PwC's Combined AI Security Assessment Framework will support all the steps



**Step 1:** Map out AI use-cases across the organisation

**Step 2:** Classify use-cases according to EU AI Act

**Step 3:** Assess against framework to uncover risks

**Step 4:** Take action on risk to adopt AI securely





# Thank you!



**Kenneth Pedersen**

Partner, Head of Cyber Risk  
Transformation, PwC

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+4529229873