

Insurance in the Age of AI

A report series of the Geneva Association

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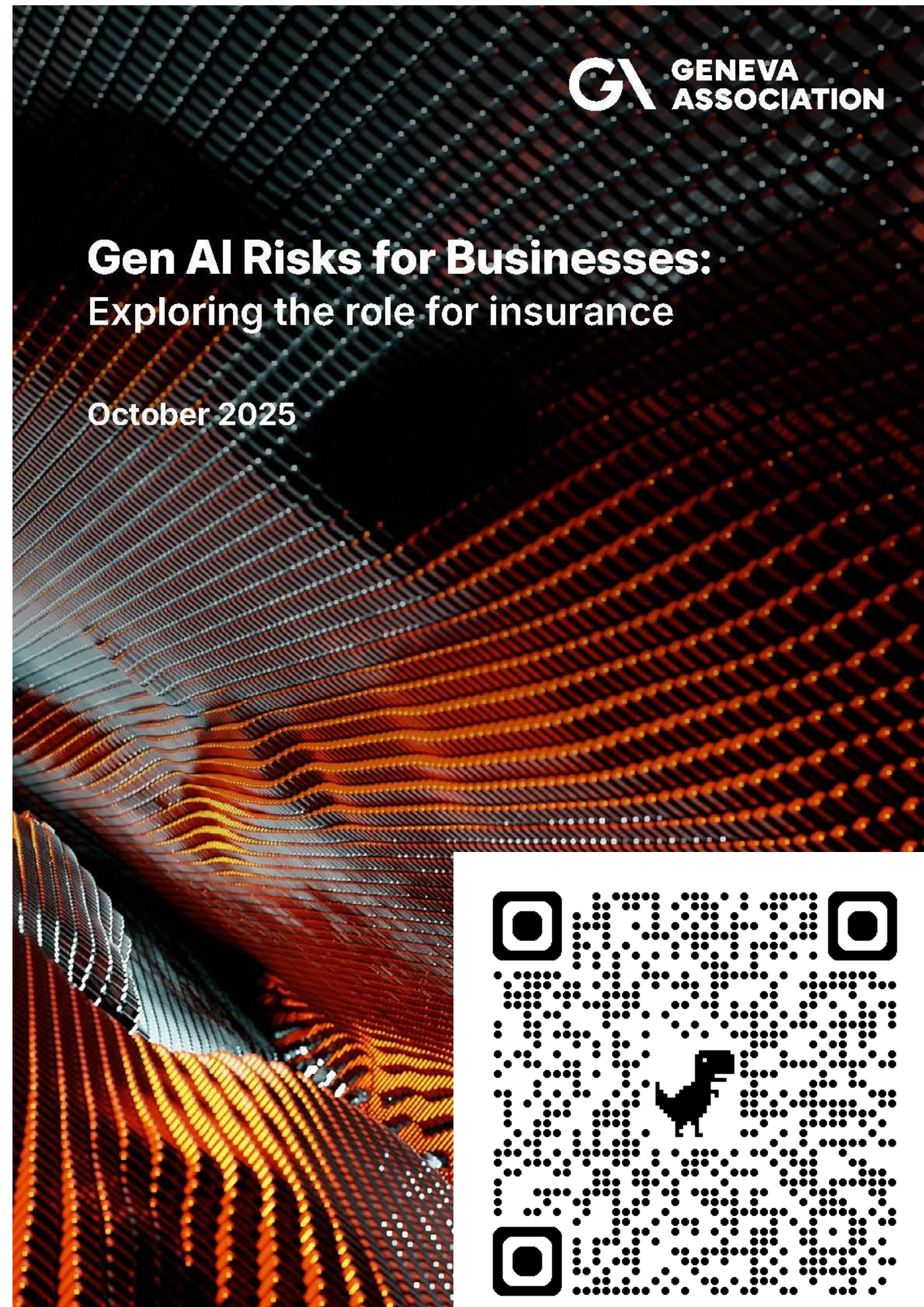
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Geneva Association Gen AI and insurance report series



Report 1: [Gen AI Risks for Businesses: Exploring the role for insurance](#) (published on 2 October, 2025)

Report 2: [Gen AI in the Insurance Customer Journey](#) (published on 20 November, 2025)



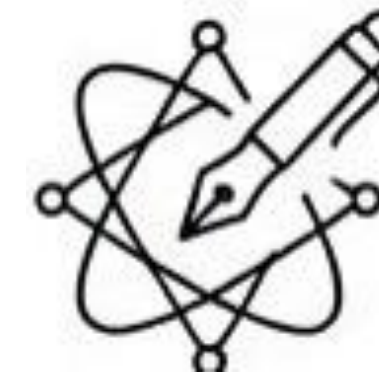
What is Generative AI – From Prediction to Creation

Traditional AI The Analyst



- **Function:** Analyzes data to find patterns.
- **Output:** Predictions (e.g., “Is this transaction fraudulent?”).
- **Mechanism:** Deterministic mapping of predictors.
- **Insurability:** Clearer parameters, easier to validate.

Generative AI The Creator



- **Function:** Creates NEW content (Text, Code, Audio, Video).
- **Output:** Original artifacts.
- **Mechanism:** Probabilistic; predicts next “token” in a sequence.
- **Insurability:** ‘Black Box’ opacity makes error tracing difficult.

Two Forms of Gen AI

Insurer-Provided Tools

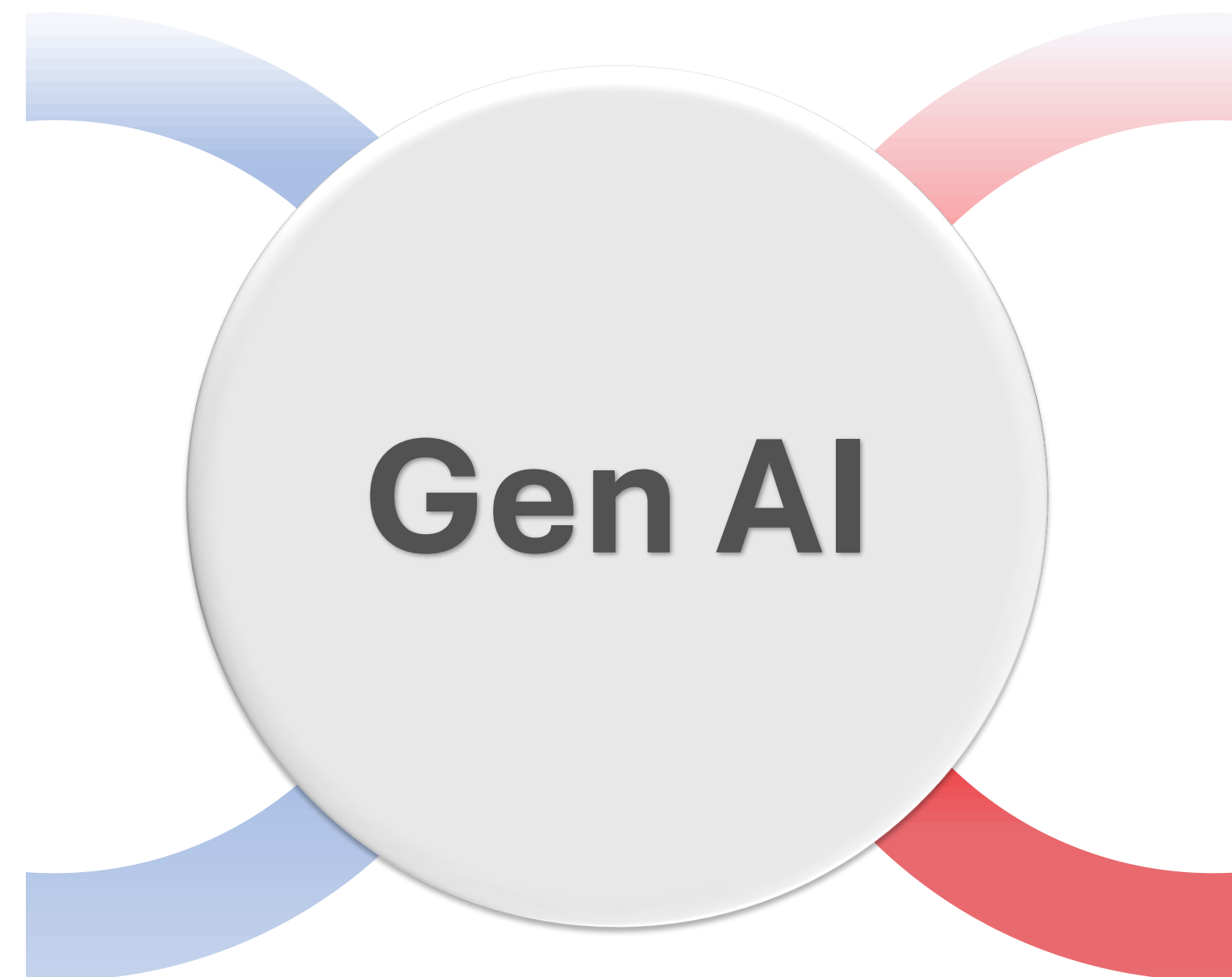
Specialized tools deployed directly by insurance carriers.

Examples:

- Advanced chatbots
- Underwriting assistants
- Automated claims triage (e.g., Tokio Marine)
- Email drafting tools (e.g., Allstate)

Primary Goal:

Automation and personalized customer engagement.



Off-the-Shelf Tools

General-purpose platforms (e.g., ChatGPT, Copilot, DeepSeek) used independently by customers.

Functions:

- Analyzing insurance policies
- Comparing products
- Clarifying terms without insurer involvement

Primary Goal:

Information gathering and decision support.

Impact Across the Customer Journey

Stages of the Insurance Journey:

- Information gathering
- Seeking advice
- Purchasing
- After-sales service
- Claims handling

Gen AI impact is strongest in:

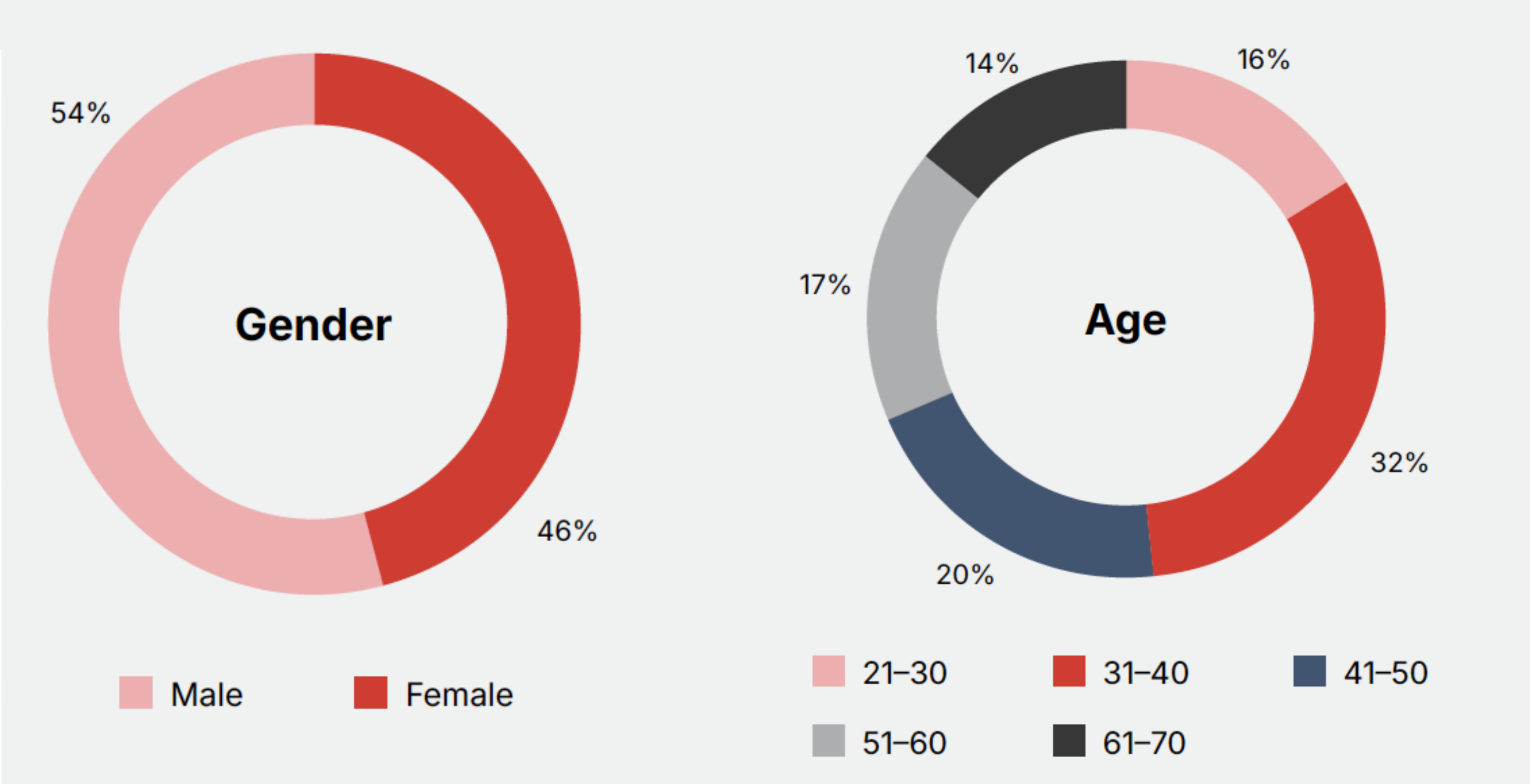
- Advisory functions
- Claims communication
- After-sales engagement

	Gathering information	Seeking advice	Purchasing policy	After-sales service	Making a claim
Existing digital technologies (internet, mobile, social media, etc.)	High	Low → Medium	Medium	High	Medium
Additional Impact of Gen AI	High	High	Low → Medium	Medium → High	Medium → High

Customer Survey Overview



Data Source: Survey of 6,000 customers (Age 21–70).



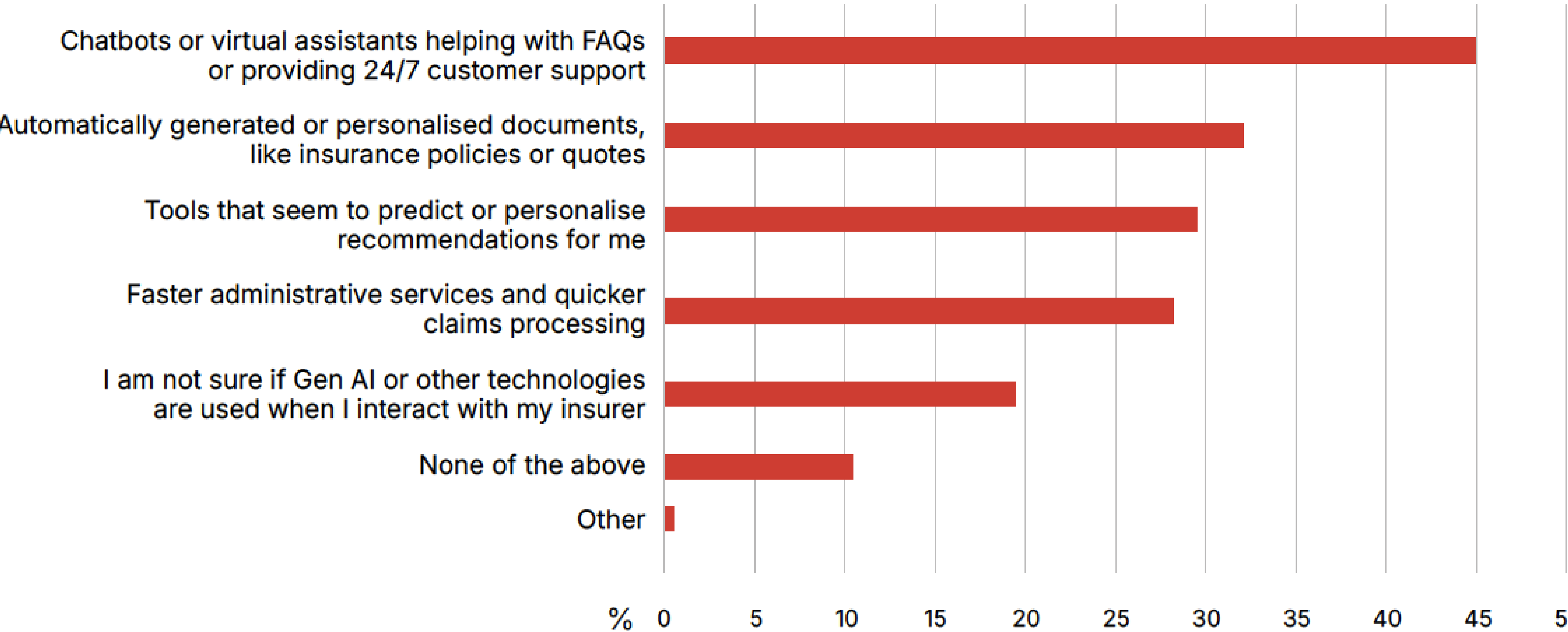
Must understand what Gen AI is.

Source: Geneva Association insurance customer survey

Customer Awareness of AI Use

Which, if any, of the following Gen AI applications have you noticed your insurance company using when interacting with you?

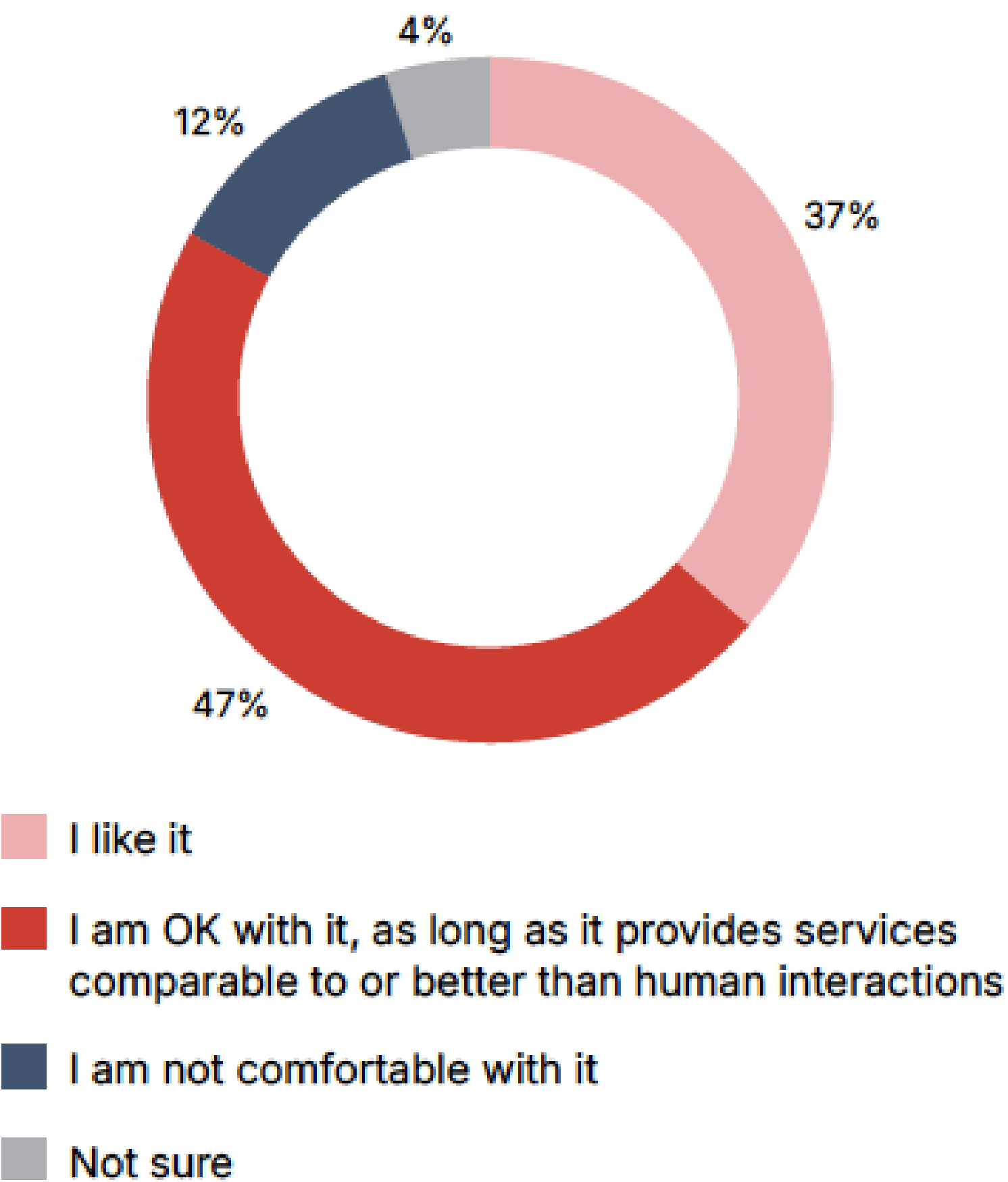
- 45% noticed chatbots / virtual assistants
- 32% noticed auto-generated documents
- 18% unsure whether AI is used



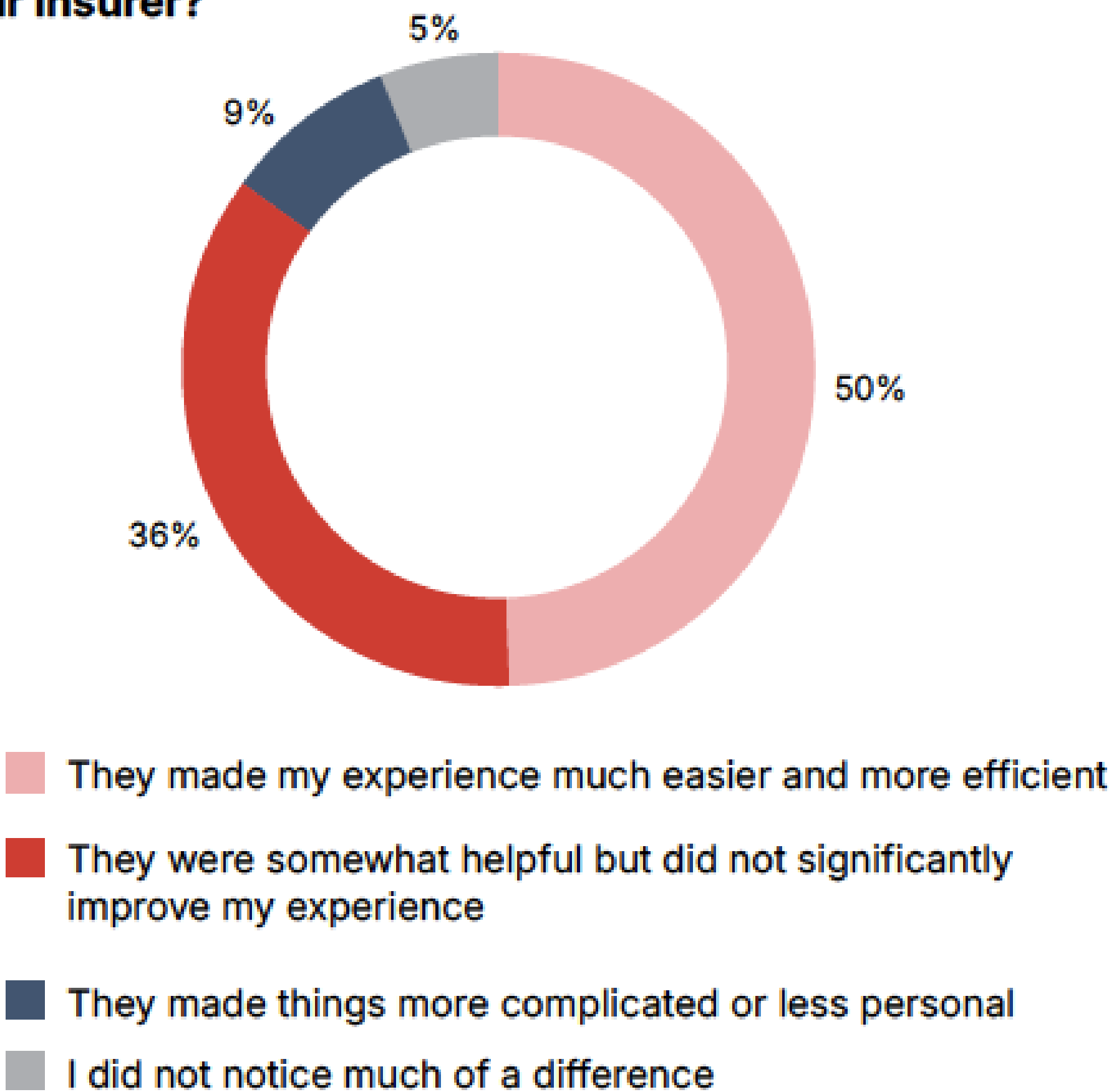
Source: Geneva Association insurance customer survey

Customer Sentiment Toward Insurer provided AI:

How do you feel about your insurer using Gen AI to interact with you?



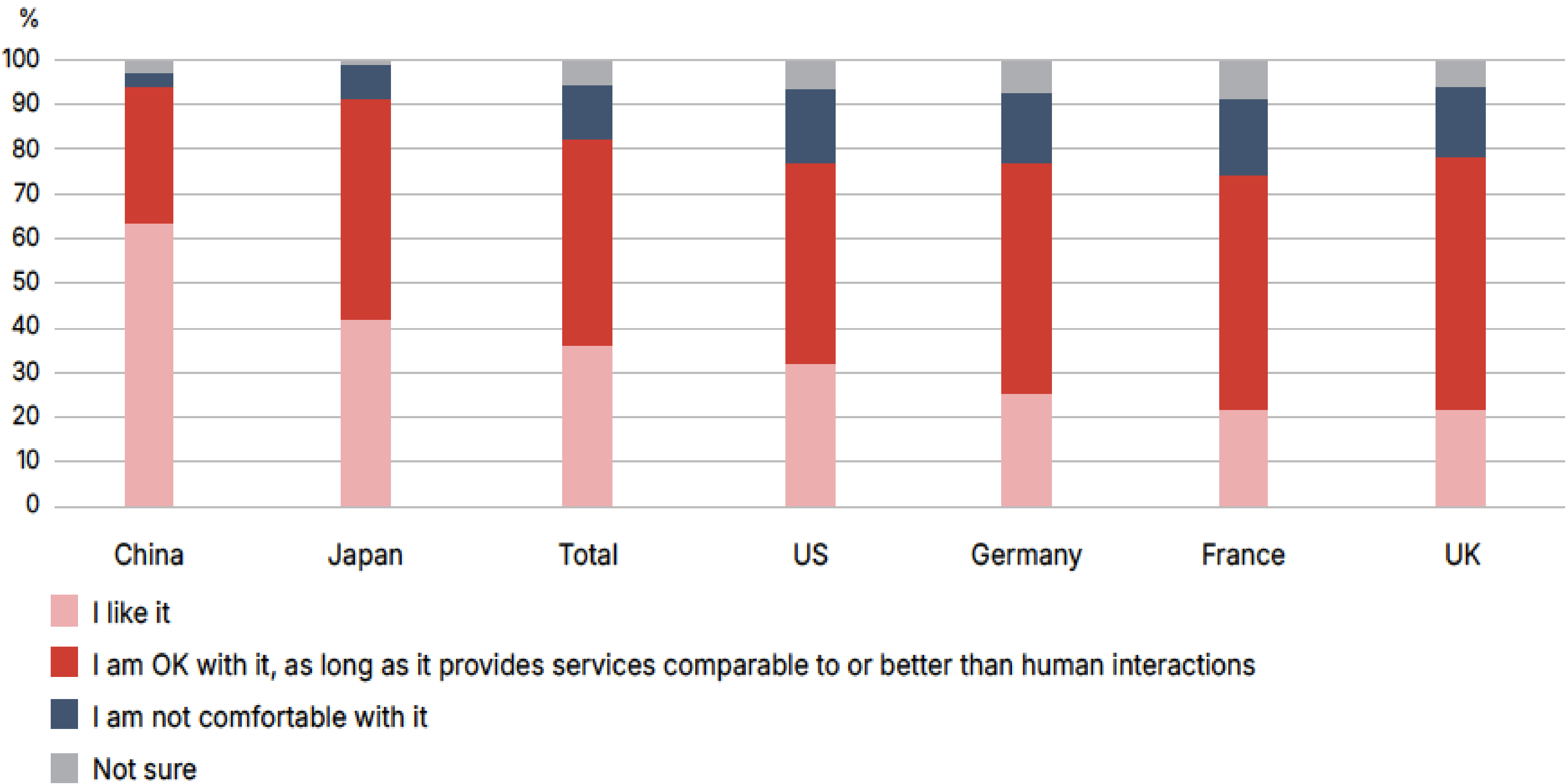
Based on your experience, how would you describe the impact of Gen AI tools on your interactions with your insurer?



The East-West Divide in Acceptance

Asian markets exhibit significantly higher enthusiasm compared to Western skepticism.

How do you feel about your insurer using Gen AI to interact with you?



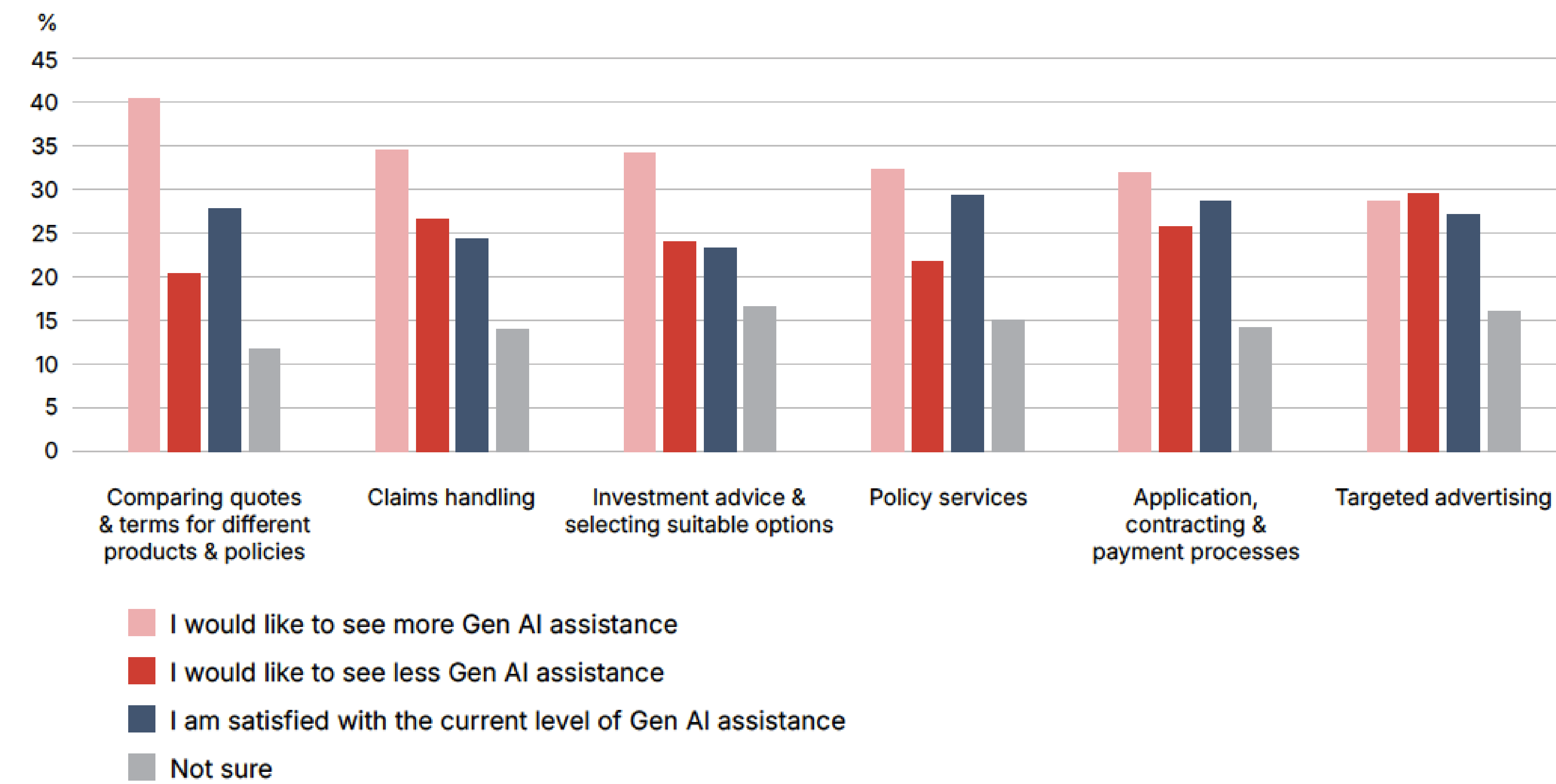
Regional Drivers

• **Asia:** High acceptance driven by digital ecosystem exposure and cultural openness.

Demand by Insurance Activity

AI is welcomed for utility, not advertisement.

Which types of insurance services would you like to have more or less Gen AI assistance with?



Customers want **MORE**

AI in:

- Comparing quotes
- Claims handling
- Policy servicing

Customers want **LESS**

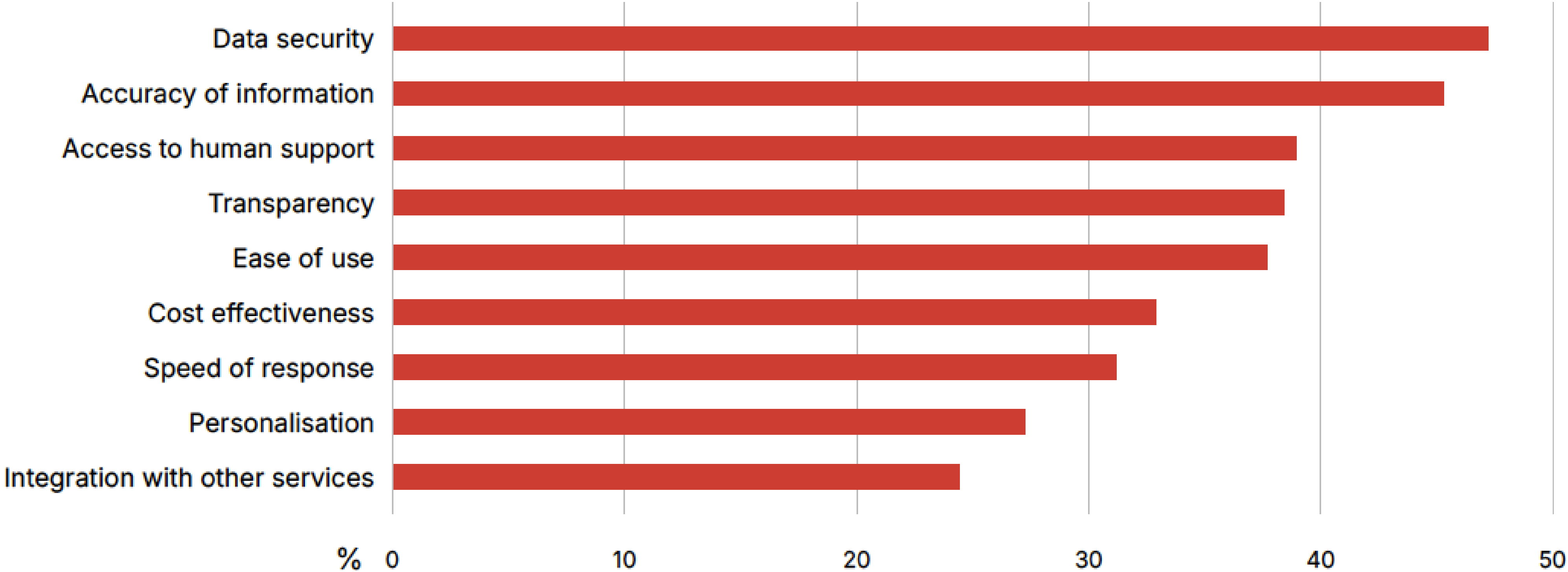
AI in:

- Targeted advertising

Top Customer Priorities

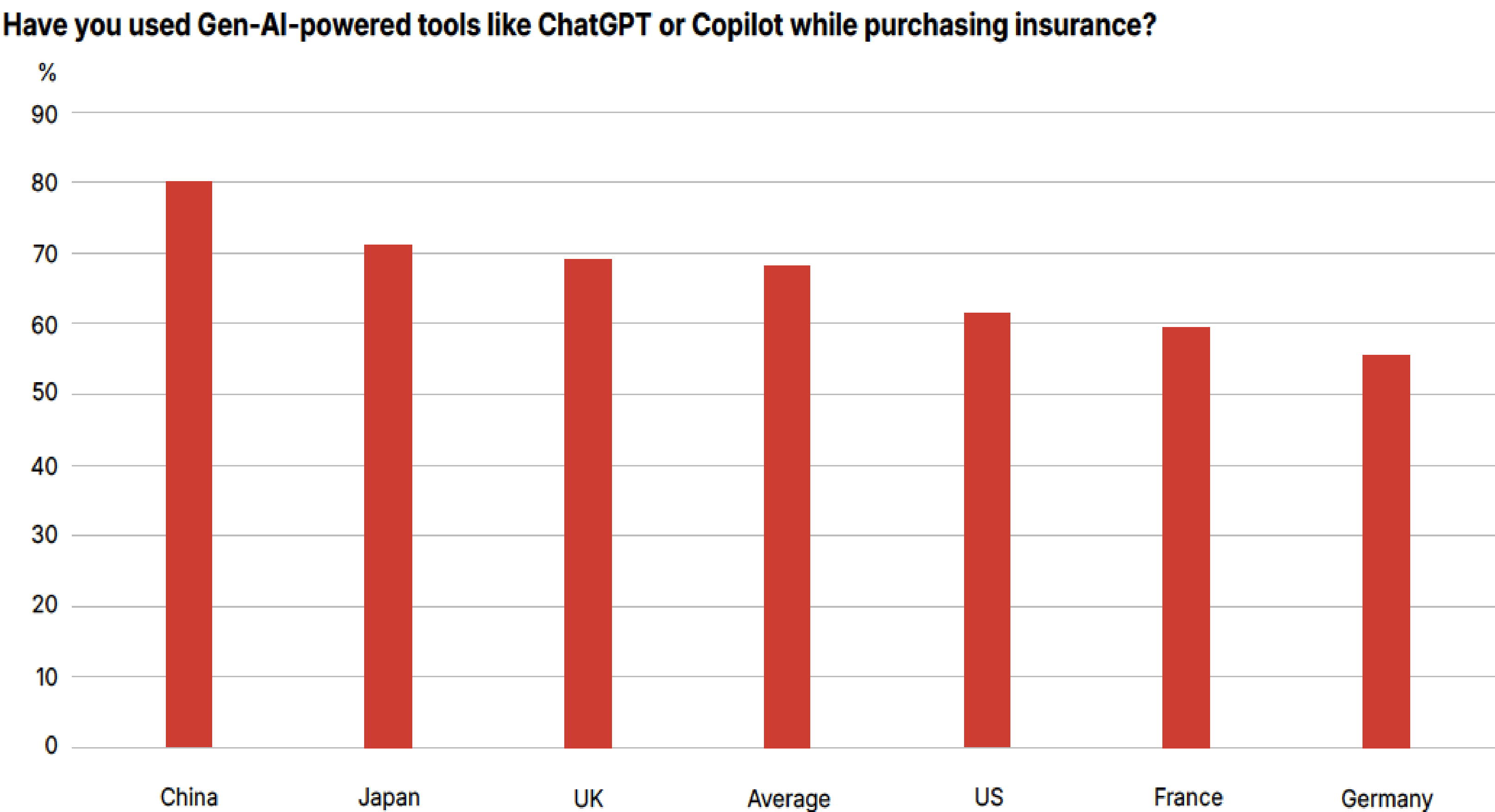
Trust-related factors dominate speed or cost.

Evaluate the importance of the following aspects of Gen AI tools used by your insurer



The Independent Use of Gen AI

68% of respondents have used tools like ChatGPT or Copilot when purchasing insurance.



Source: Geneva Association insurance customer survey

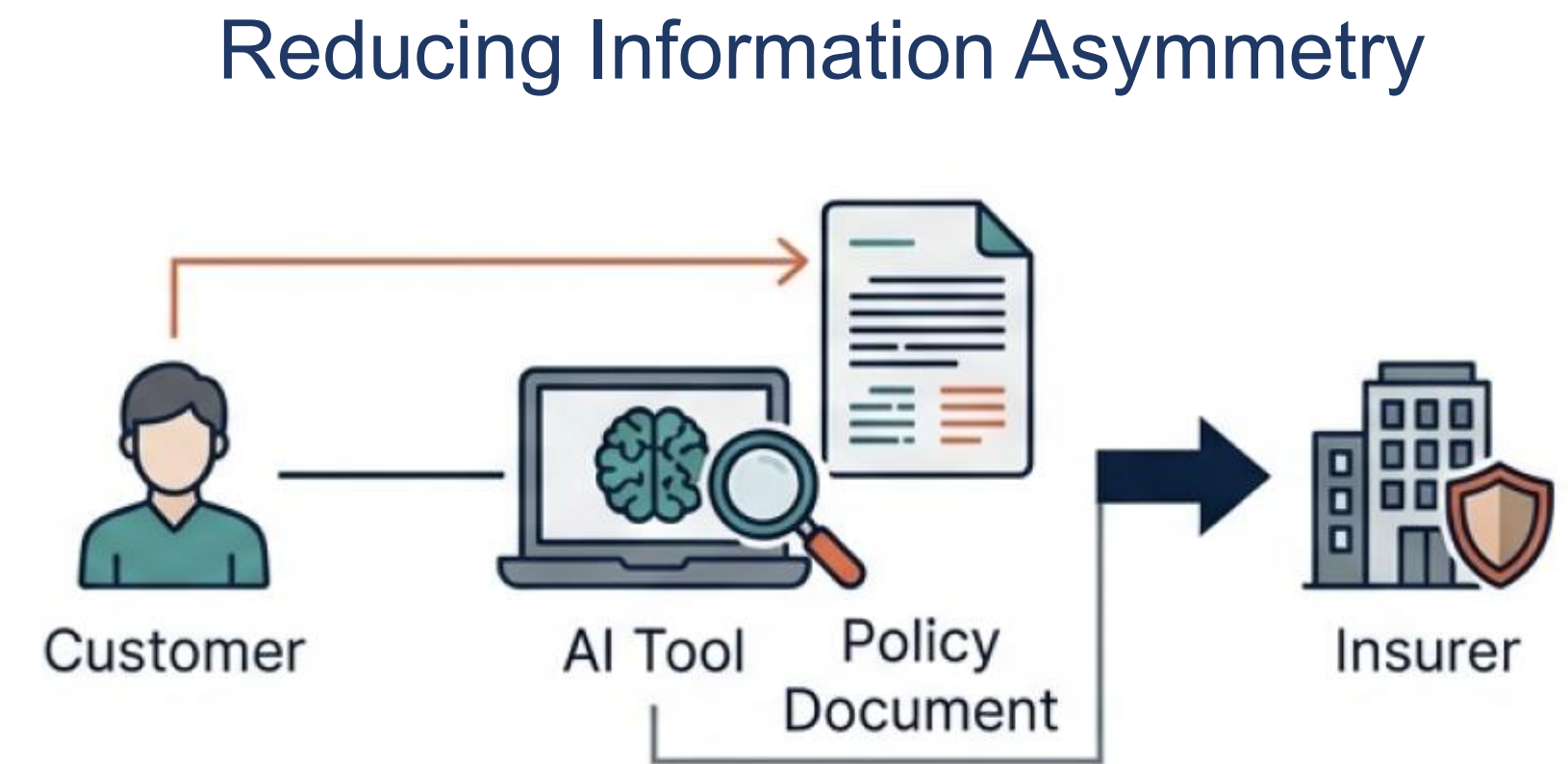
Empowered Customers Change Market Dynamics

Off-the-shelf AI reduces:

- Information asymmetry
- Search costs
- Dependence on agents and brokers

Customers become:

- Better prepared
- More analytical
- More demanding



Customers compare products and decode complex language in real-time.

“Confusopoly” is dead. Products must be transparent to withstand AI scrutiny.

Concerns and Challenges

	Top 3 concerns	
Insurer-provided Gen AI	Lack of human touch	▪ top concern (nearly 40% respondents), more pronounced in the Europe and the U.S
	Privacy and security	▪ 35% respondents unwilling to share personal data
	Accuracy and transparency	▪ The “black box” nature and “hallucinations”
Independent use of off-the-shelf Gen AI	Quality and reliability	▪ Model bias, reliability of information and advice generated
	Privacy	▪ Misuse or leakage of sensitive personal data leaking.
	Cybersecurity risks	▪ Phishing, identity theft, and hidden vulnerabilities

Human Touch



Data Privacy



Accuracy



Transparency



The Hallucination Risk and Mitigation Strategies

Gen AI is probabilistic, not deterministic.

Risks:

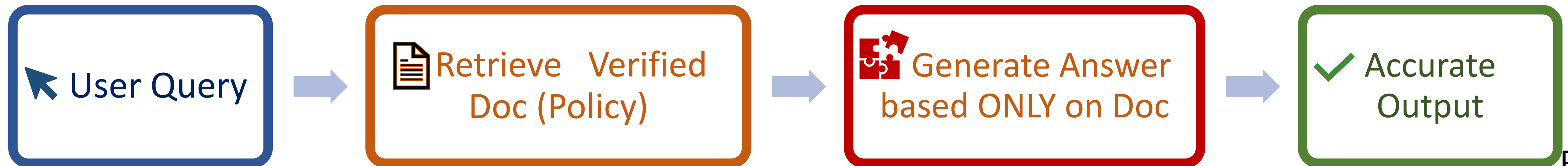
- Incorrect policy interpretation
- Fabricated exclusions
- False confirmation of coverage



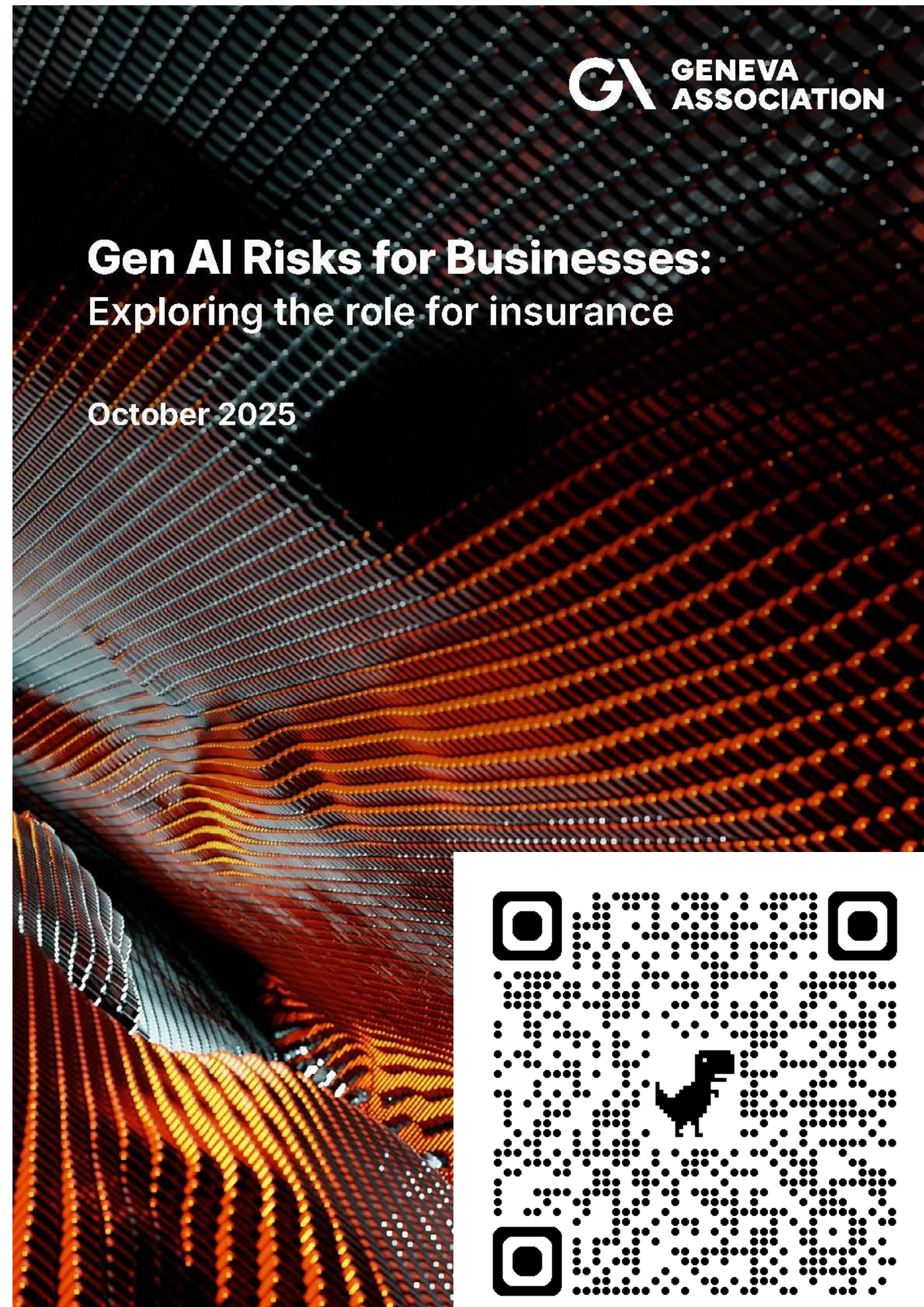
Consequences:

- Legal liability
- Regulatory penalties
- Reputational damage

RAG (Retrieval-Augmented Generation)



Geneva Association Gen AI and insurance report series



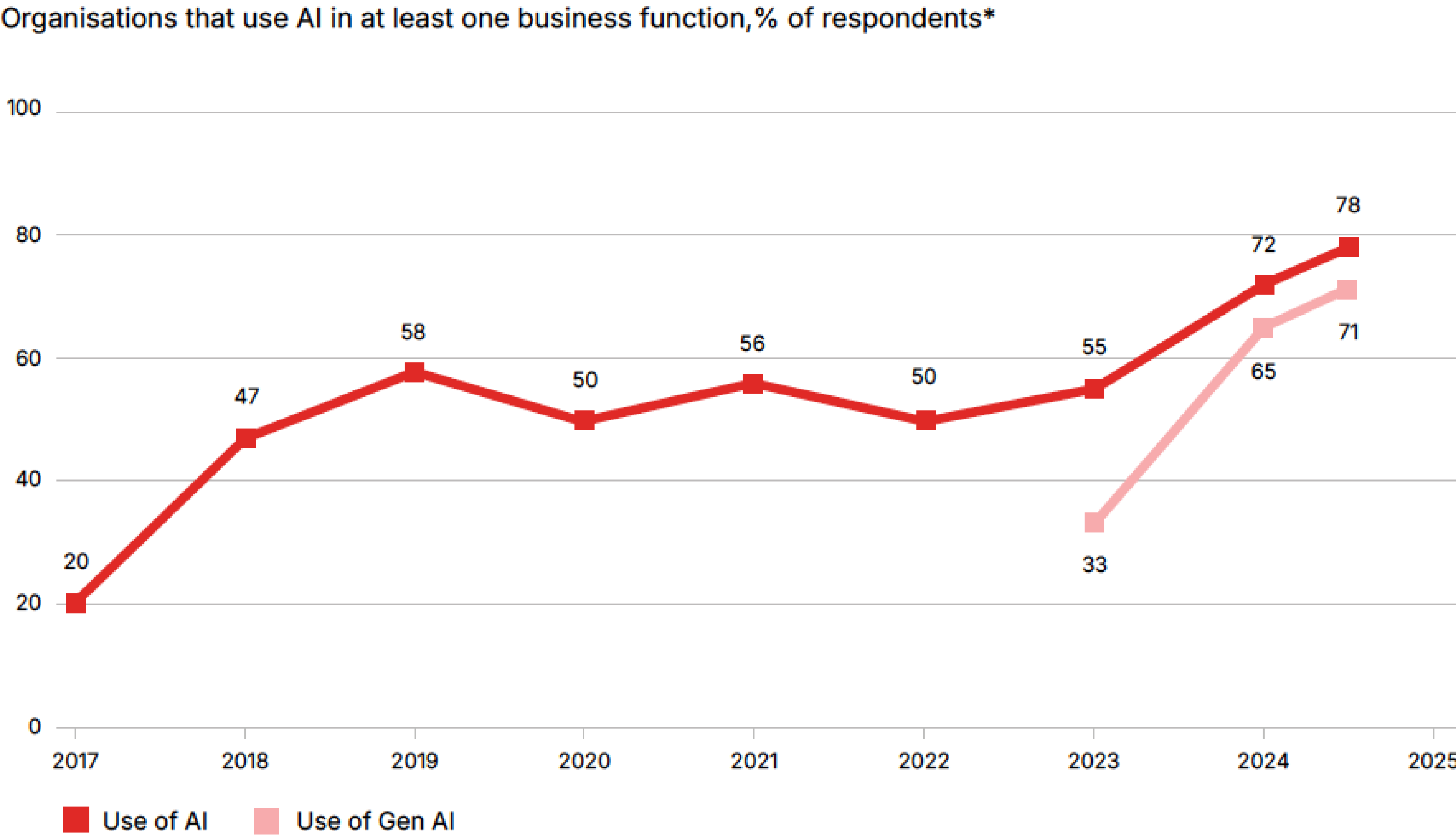
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Rapid Adoption by Businesses

- Adoption is accelerating globally.
- 71% of firms use Gen AI in at least one function (2025)
 - Up from 33% in 2023



* In 2017, the definition for AI use was using it in a core part of the organisation's business or at scale. In 2018–19, it was embedding at least one AI capacity in business processes or products. Since 2020, it is that the organisation has adopted AI in at least 1 function.

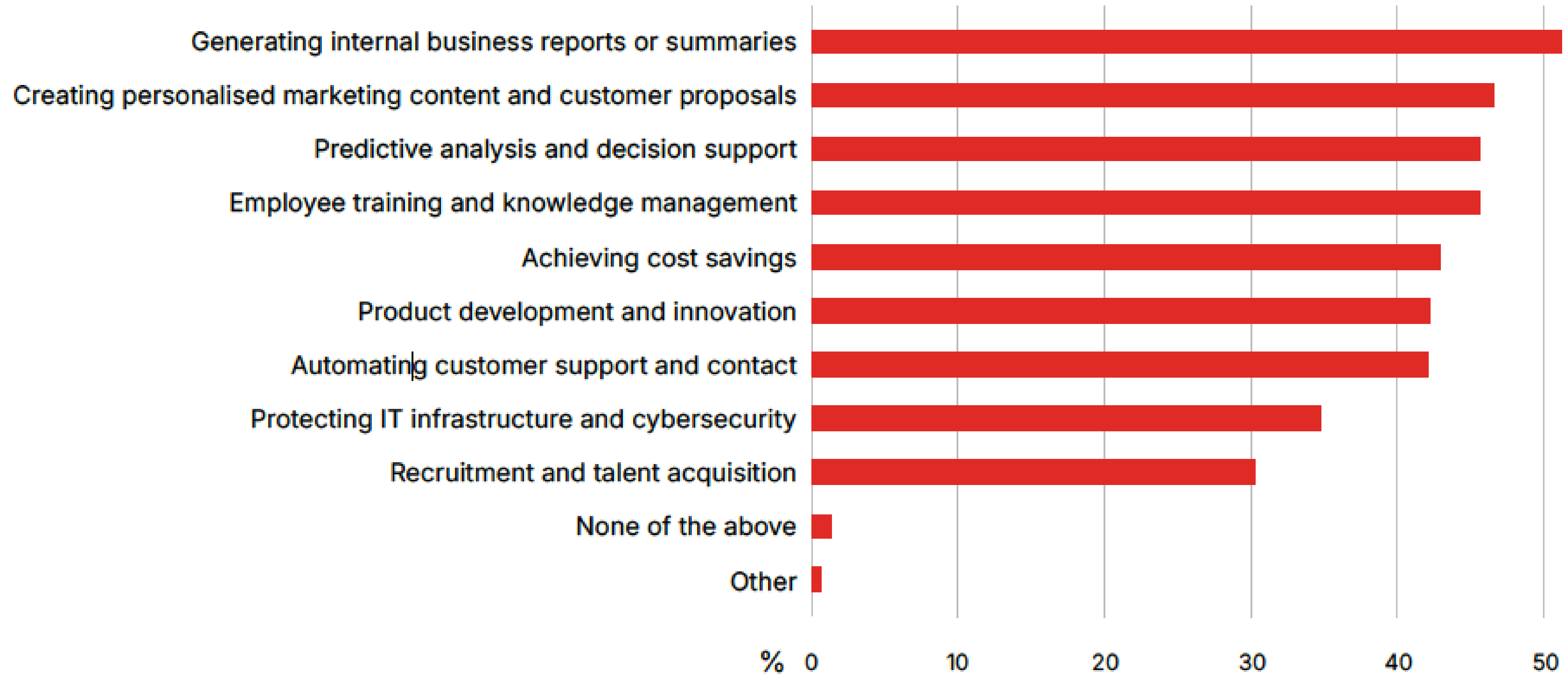
Seven risk categories identified for Gen AI

- Operational, privacy & cybersecurity, ethical, regulatory, reputational, workforce, ESG

	Risk Category	Specific Risk
First-party operational risk	Operational	Algorithmic Errors; Stability; Reliability Black-Box Issues Malicious Attack
	Cybersecurity & Privacy	AI-driven Cyberattacks Data Privacy Violations
	Reputational & Market	Customer Trust and Brand Image Dependency & Competitive Risk
	Workforce Challenges	Job Displacement AI Skill Requirements
First-party operational risk +Third-party product risk	Regulatory & Compliance	Evolving AI Regulations Accountability and Liability
	Bias & Ethical Concerns	Discrimination and Bias Ethical Decision-Making
	ESG	Environmental and Energy

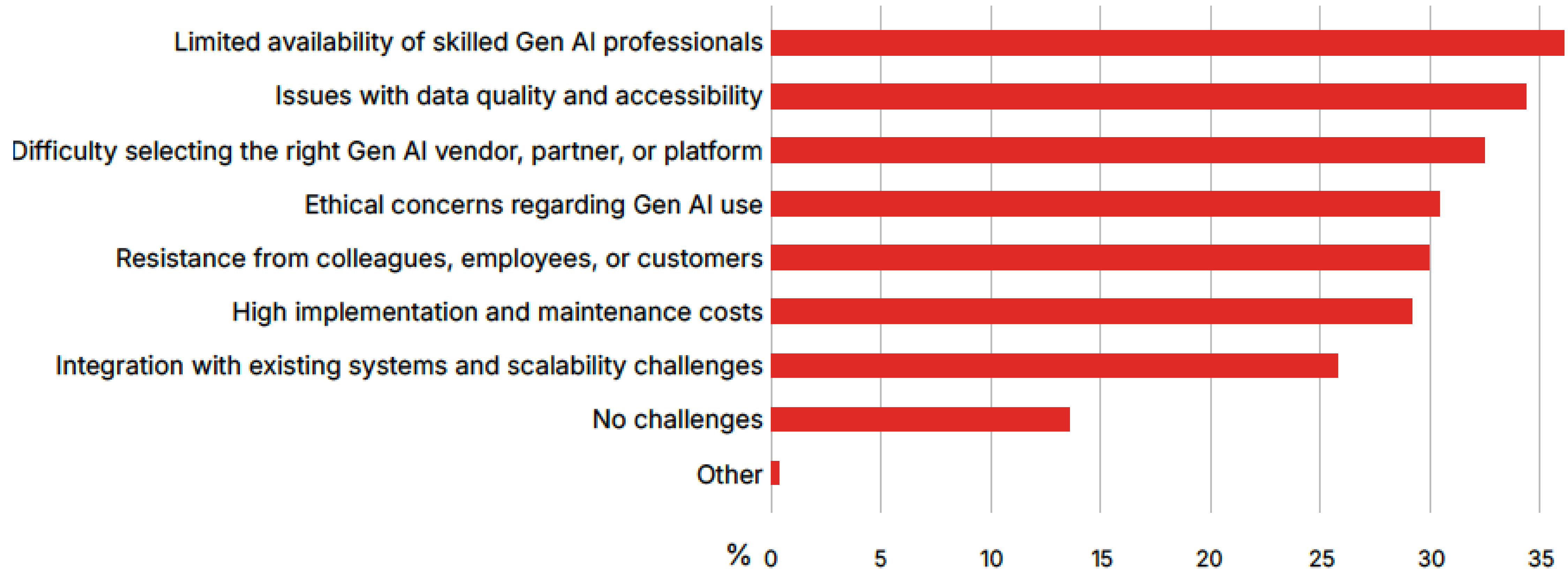
How Firms Use Gen AI

For what purposes do you use Gen AI at the company/organisation you work for or own?



Implementation Challenges

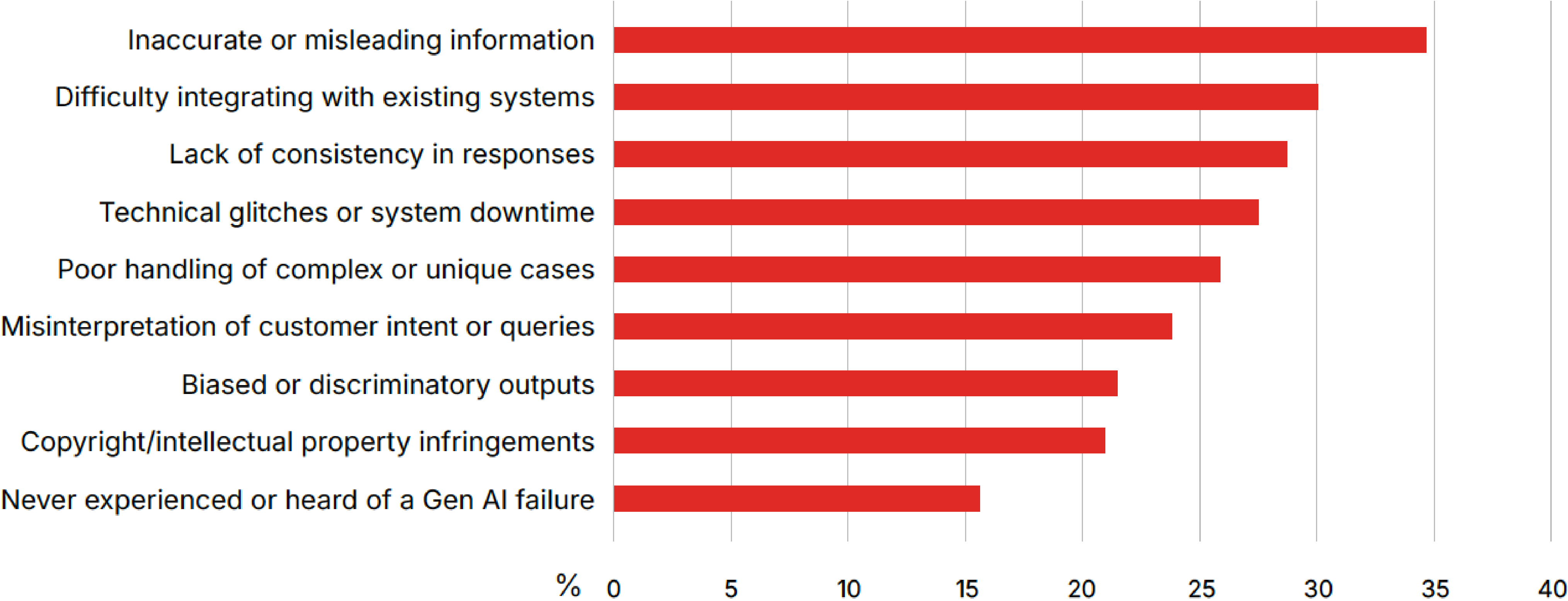
What challenges have you encountered/do you anticipate when implementing Gen AI at the company/organisation you work for or own?



Source: Geneva Association business insurance customer survey

Failures & Incidents

What type(s) of failures or issues have you experienced or heard about when using Gen AI in the company/organisation you work for or own?

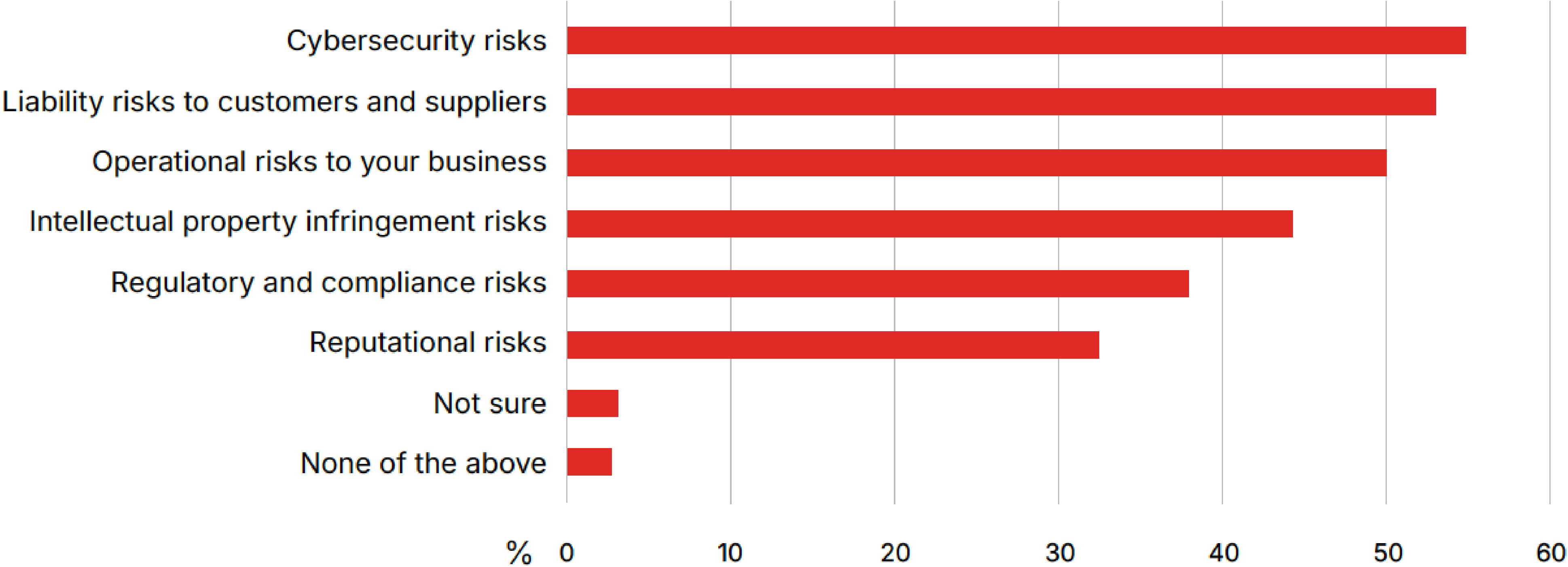


Source: Geneva Association business insurance customer survey

Demand for Gen AI Insurance

FIGURE 7: GEN AI RISKS BUSINESSES WANT TO INSURE

What Gen-AI-related risks do you want covered by your insurance?

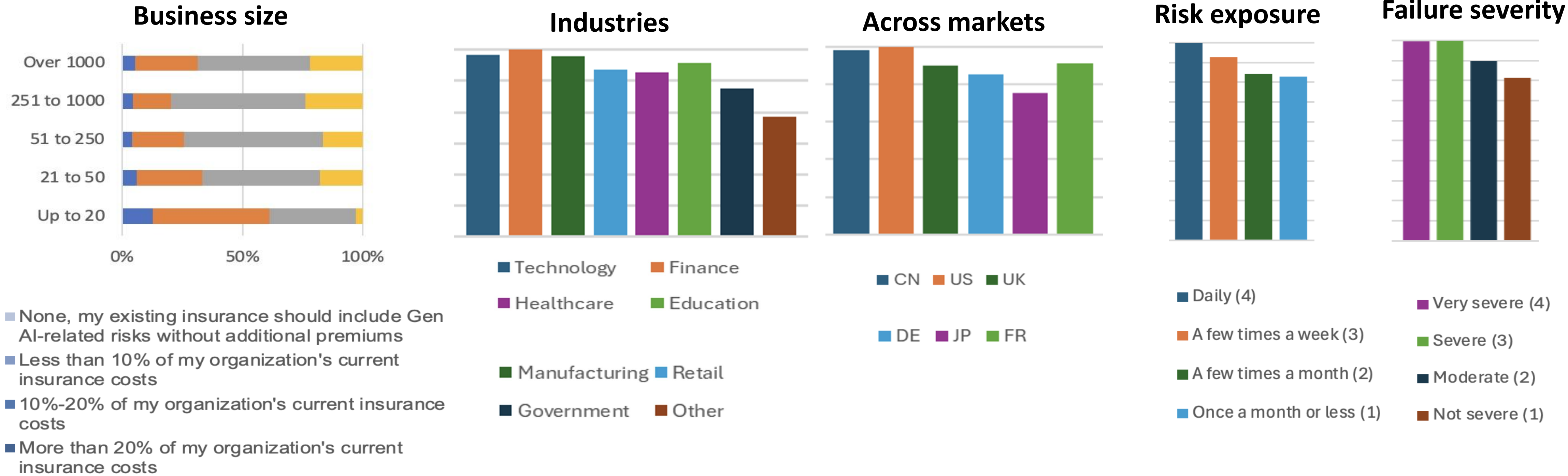


Source: Geneva Association business insurance customer survey

Demand for Gen AI Insurance

- Demand is strongest in the technology and finance sectors, among medium-to-large firms, and in markets with high Gen AI adoption
- Firms with high Gen AI exposure and severe past failures show higher insurance demand, suggesting potential adverse selection

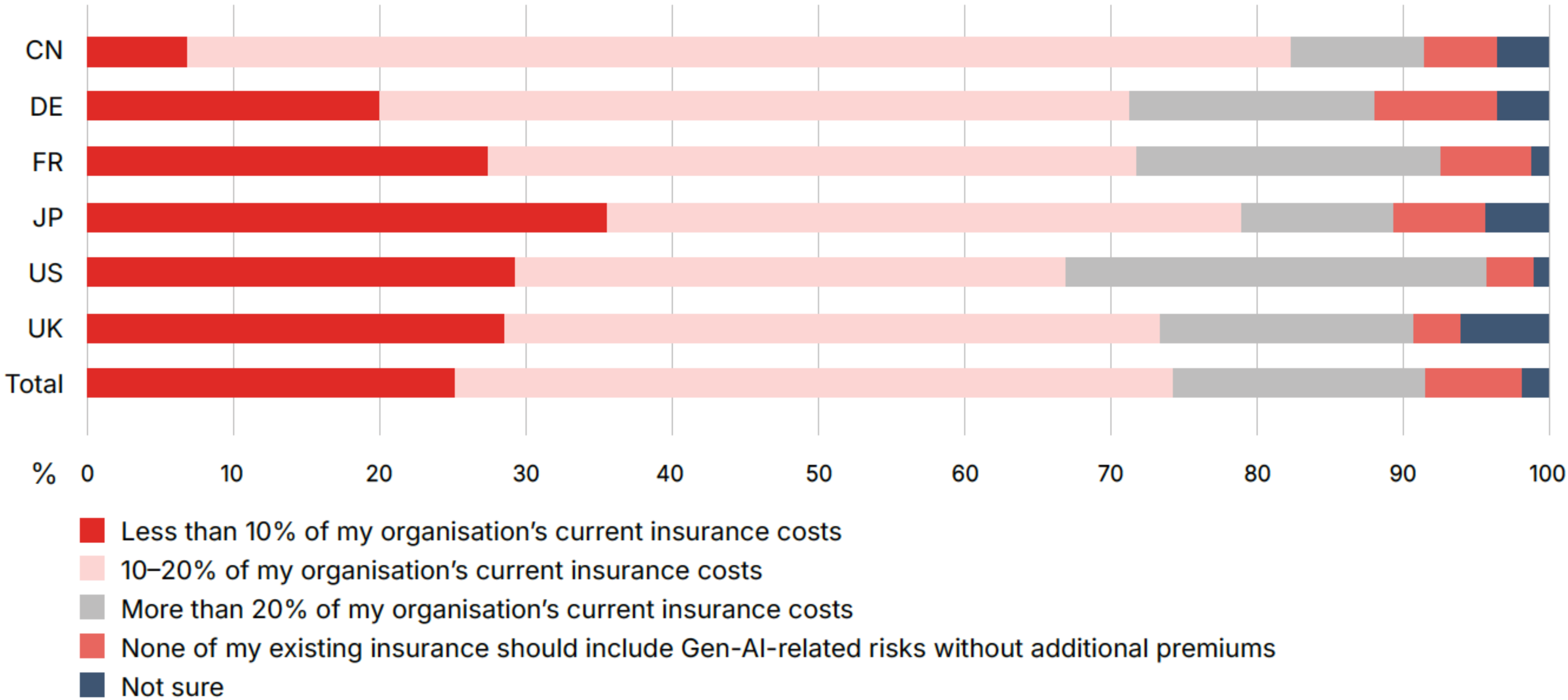
From whom is Gen AI insurance in high demand



Willingness to Pay

FIGURE 8: WILLINGNESS TO PAY FOR GEN AI INSURANCE

How much extra would you be willing to pay for Gen-AI-related coverage?

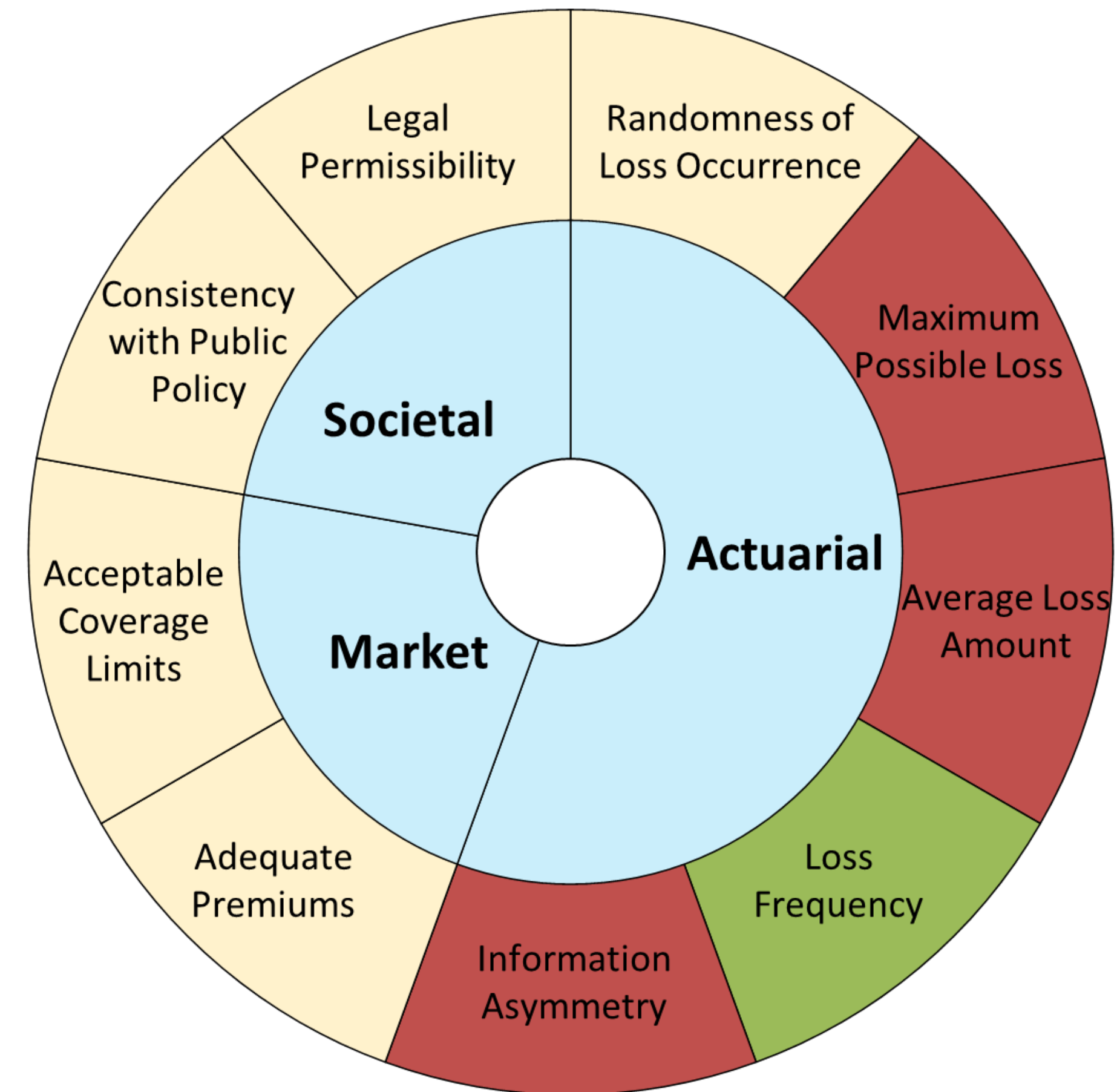


Source: Geneva Association business insurance customer survey

Supply of Gen-AI-related insurance

Insurability of Gen-AI-related risks

- Critical challenges for Gen AI:
 - Maximum possible loss
 - Average loss amount
 - Information asymmetry
- Mirrors the early evolution of cyber insurance



Source: Geneva Association

Emerging insurance solutions

- Gen-AI-related risks and associated coverage are still at an early stage but are expected to expand
- Effective Gen AI risk management requires a broad toolkit – a balanced approach combining risk avoidance, mitigation, retention, and transfer

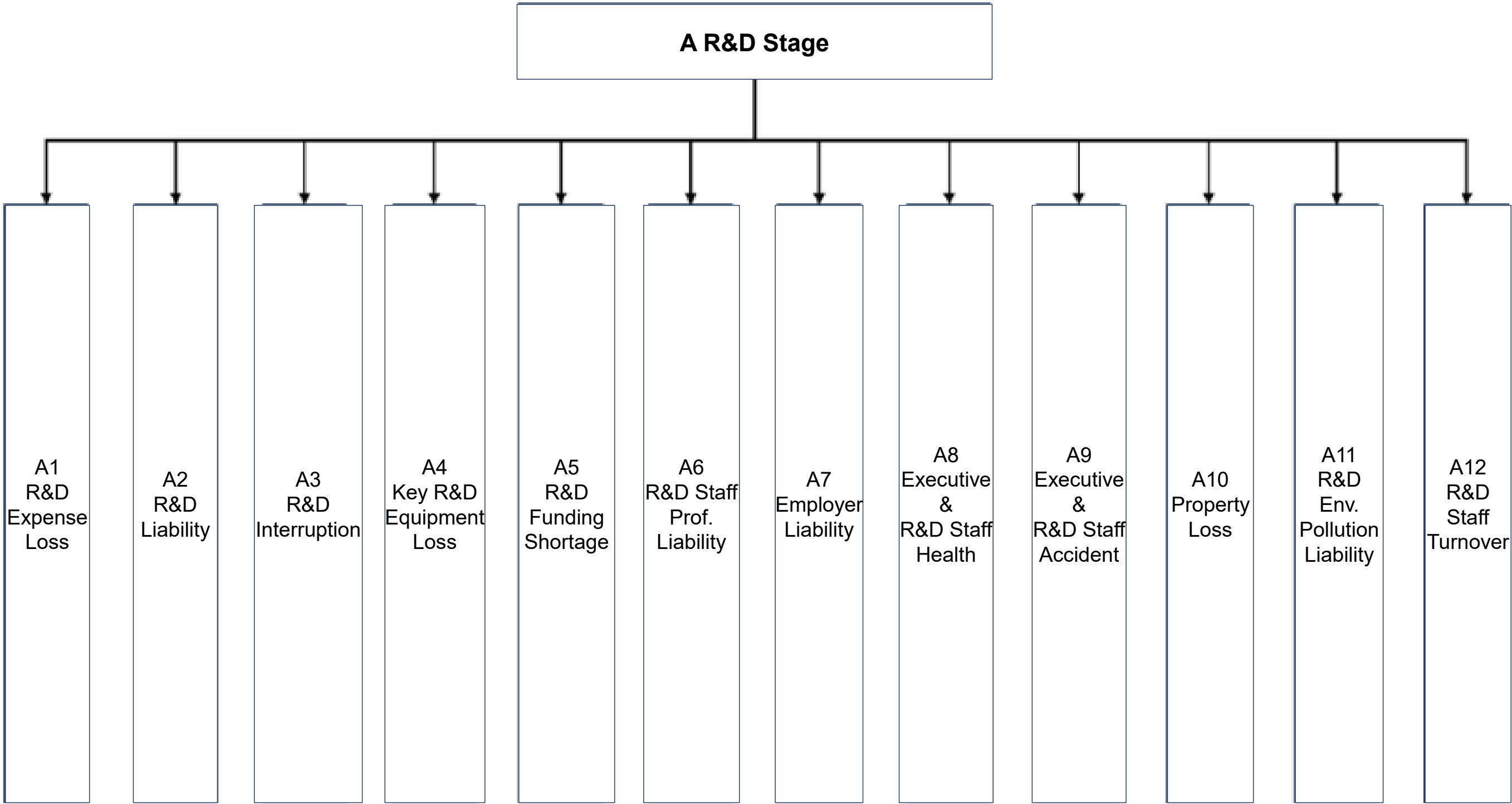
Type of coverage	Description
Cyber insurance	Covers losses due to enhanced vulnerability of IT systems, as businesses and attackers use Gen AI tools, including data breaches, hacking, or model manipulation.
Professional liability (E&O)	Protects against claims arising from errors in Gen AI outputs, like the generation of misleading or harmful information.
Directors' & officers' liability	Protects directors and officers from legal action due to Gen-AI-related decisions or oversight failures.
Intellectual property	Protects against claims related to Gen AI's use of copyrighted or patented materials without permission.
Product liability	Covers claims due to harm caused by Gen AI outputs (e.g. misinformation, discriminatory content) or failure to perform as expected.
Dedicated, standalone AI insurance	Comprehensive, standalone coverage bundling multiple Gen-AI-specific exposures into a single policy.

II. Risk Analysis in the Technology Sector

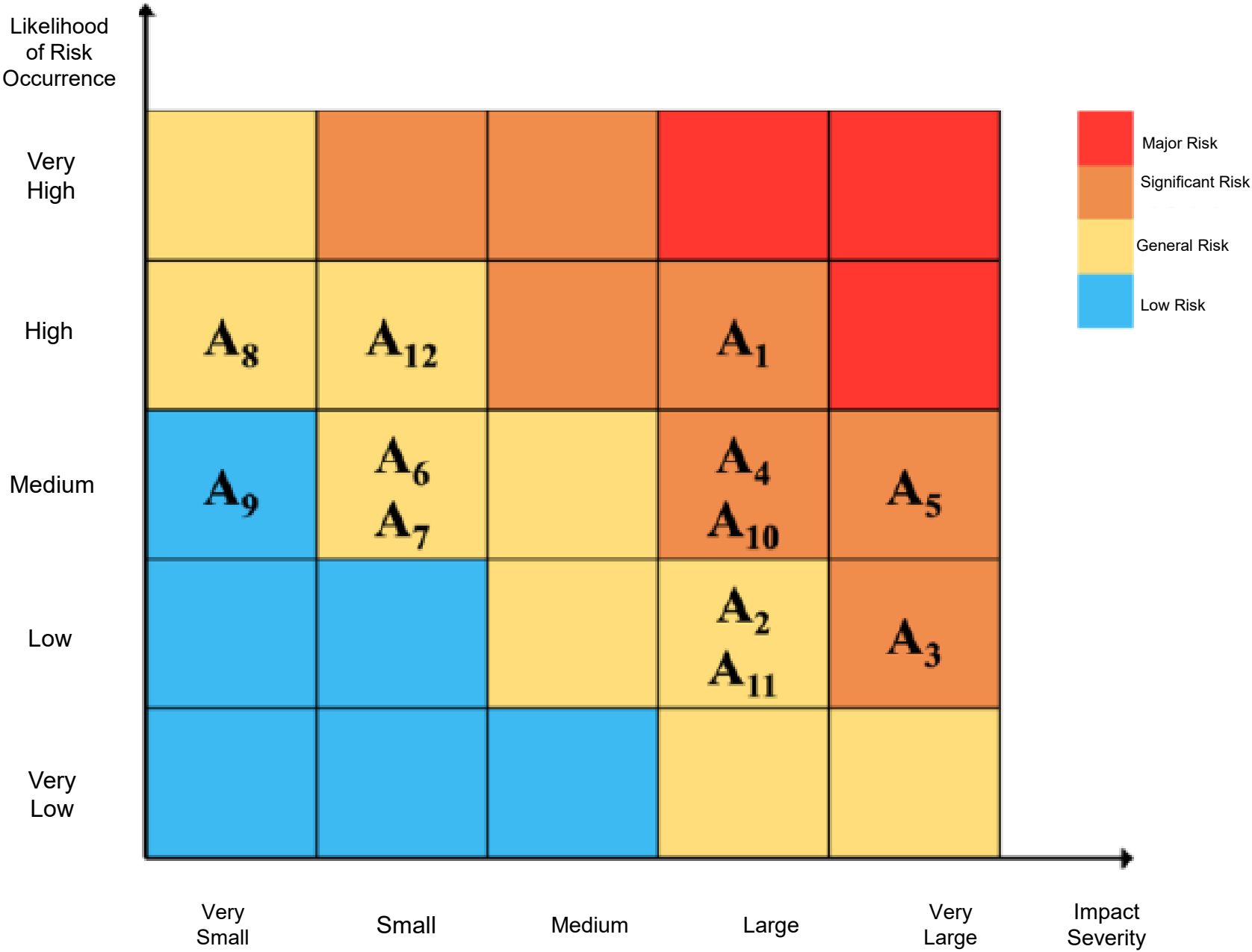
Three Stages of Technology Innovation



R&D risks refer to risks arising when technology companies, research institutions, universities and other technology actors form new technological achievements through basic research, applied research, or experimental research.



Risks Related to the R&D Stage



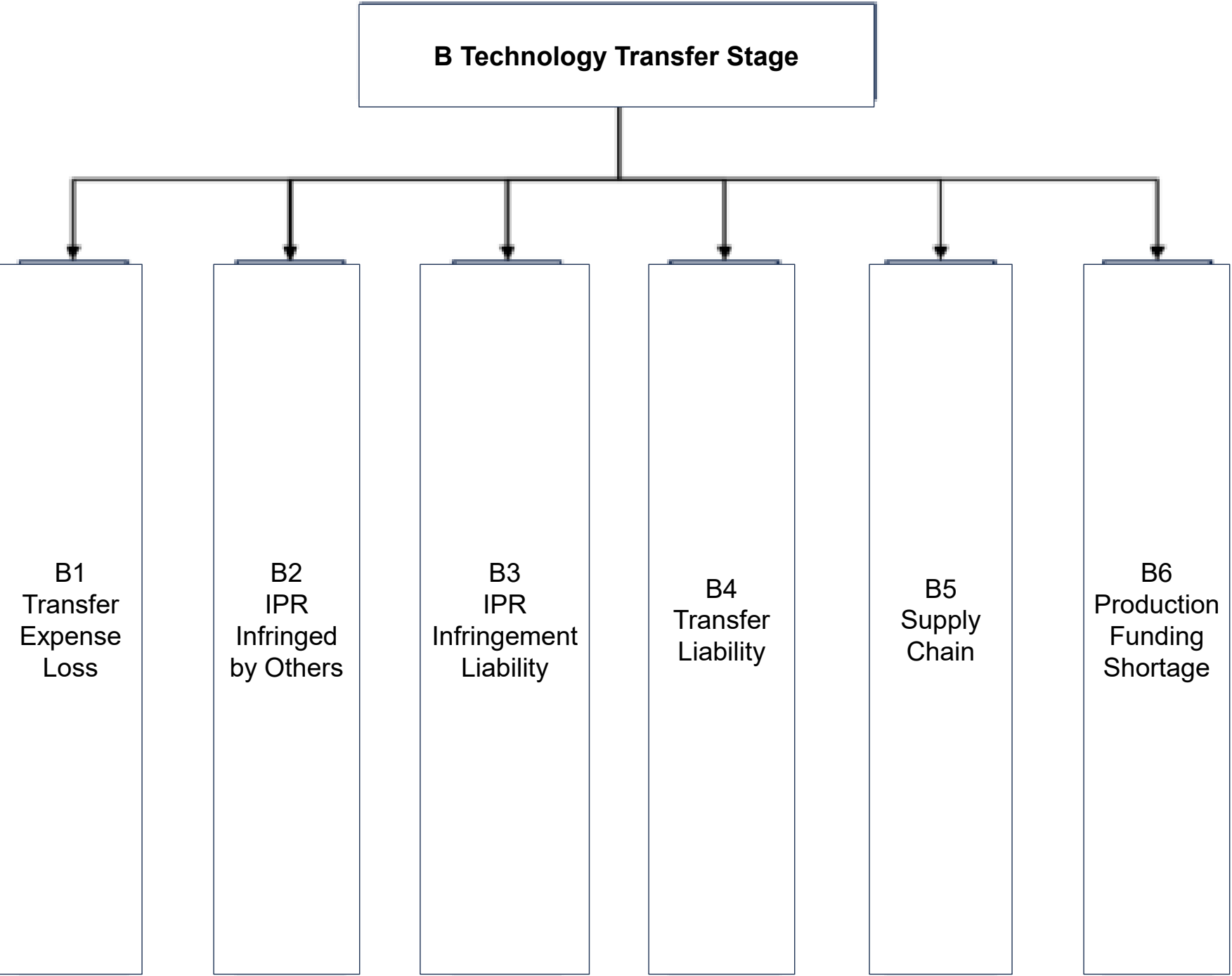
Risk Matrix for the R&D Stage

II. Risk Analysis in the Technology Sector

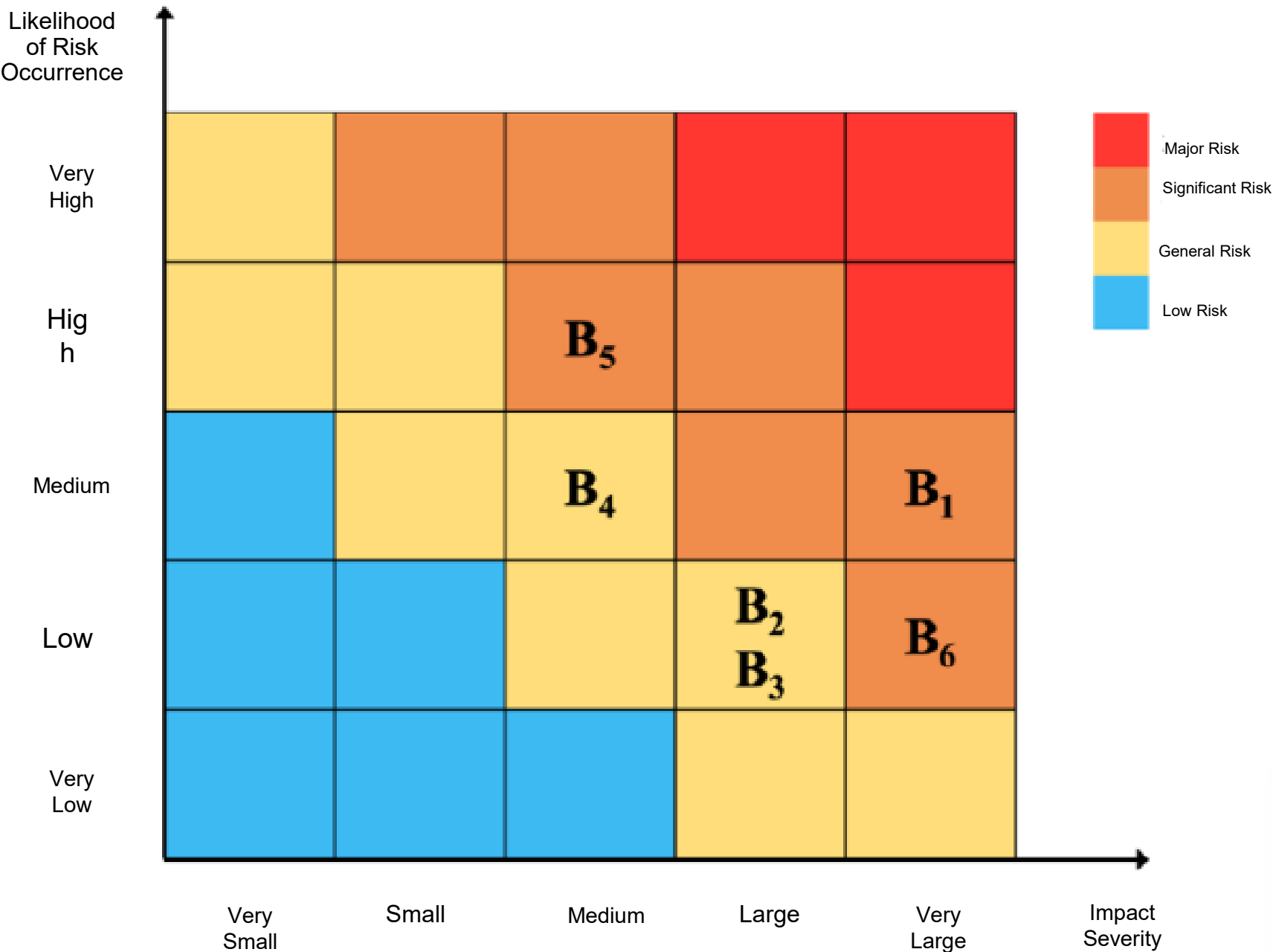
Three Stages of Technology Innovation



Technology transfer risks refer to risks arising when technology companies, research institutions, universities and other technology actors transform technological achievements into products or services with practical application value and commercialization potential.



Risks Related to the Technology Transfer Stage



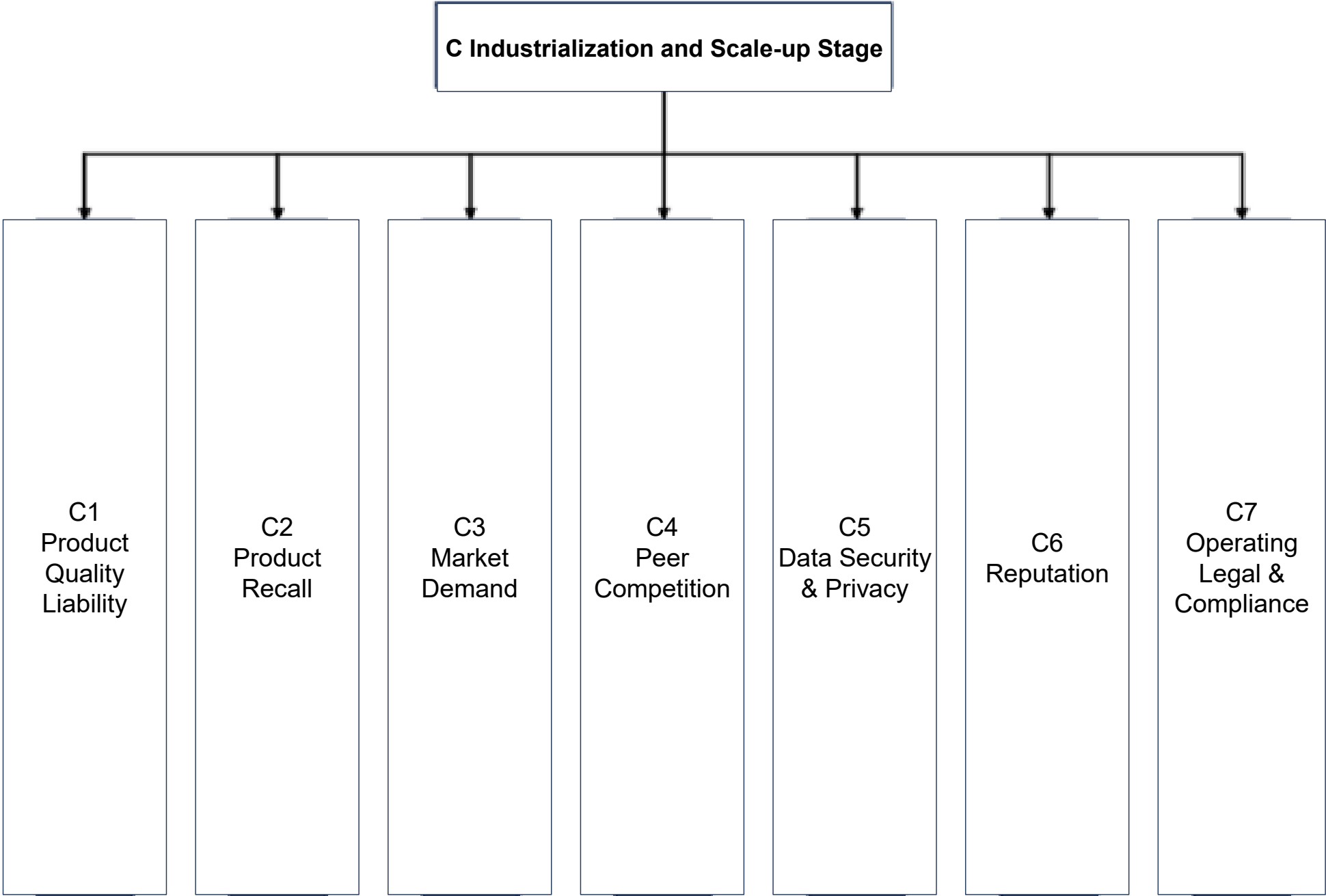
Risk Matrix for the Technology Transfer Stage

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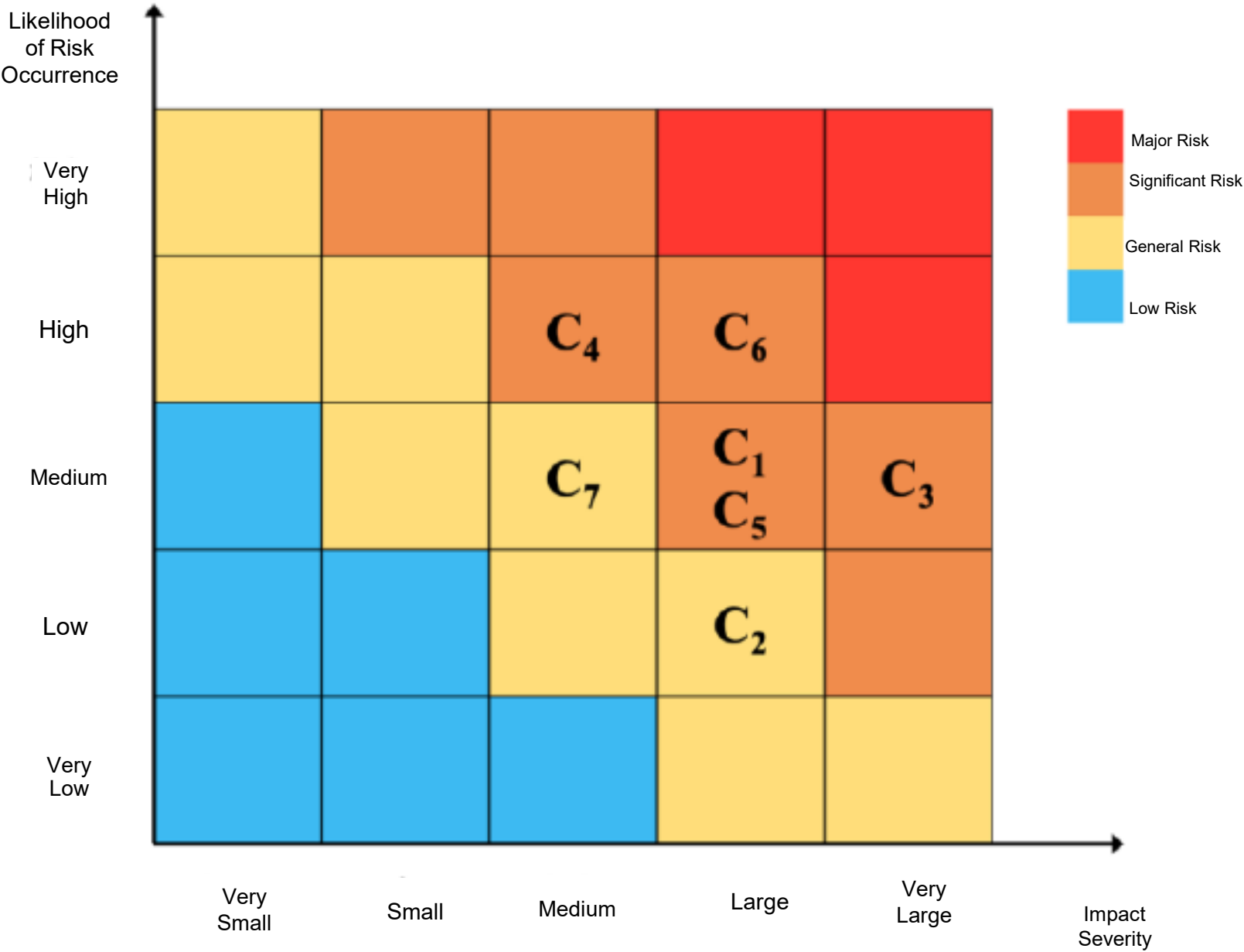
Three Stages of Technology Innovation



Industrialization and scale-up is the key link through which technology innovation realizes its value.



Risks Related to the Industrialization and Scale-up Stage



Risk Matrix for the Industrialization and Scale-up Stage

Insurance for Infringement Liability Arising from Generative AI-Generated Content

Enterprises, public institutions, and other organizations that use generative AI technology to provide generative AI services may act as the policyholder and insured under this insurance contract.

Insurance Liability

- Where, in the course of providing generative AI services, the insured, due to fault or negligence, causes the generated content output based on user input to infringe a third party's lawful rights and interests, including copyright, portrait rights, and reputation rights, and the relevant rights holder first requests handling by the competent authority, files a lawsuit accepted by a court, or files an arbitration request accepted by an arbitration institution during the insurance period, the insurer shall indemnify the insured for the following costs and economic compensation liability in accordance with this insurance contract:
- Arbitration or litigation costs and other necessary and reasonable legal expenses paid with the insurer's prior written consent.
- Economic compensation liability that the insured is legally required to bear.

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