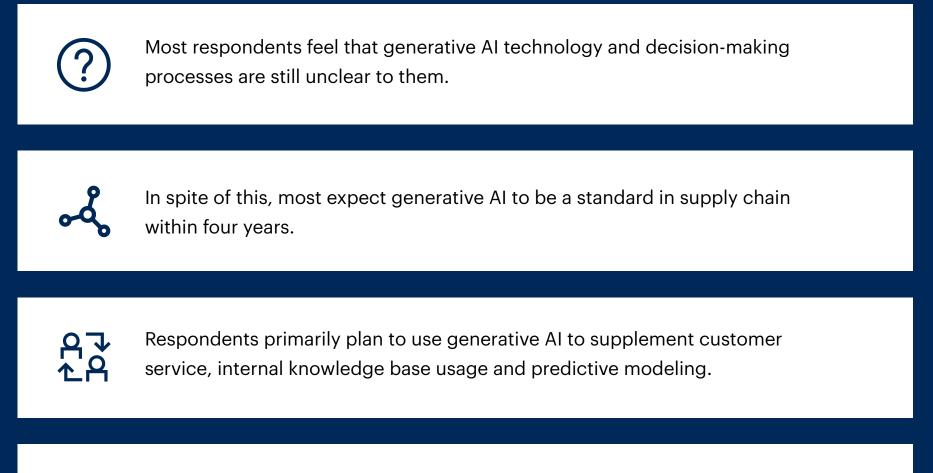
Gartner Peer Community

Generative Al for Supply Chain: Usage, Expectations & Roadblocks



With the potential for generative AI to transform supply chain operations, leaders are eager to explore its benefits. However, many roadblocks remain on the journey to implementation. Where do supply chain leaders say their organizations currently stand on adoption and use?

One-Minute Insights:



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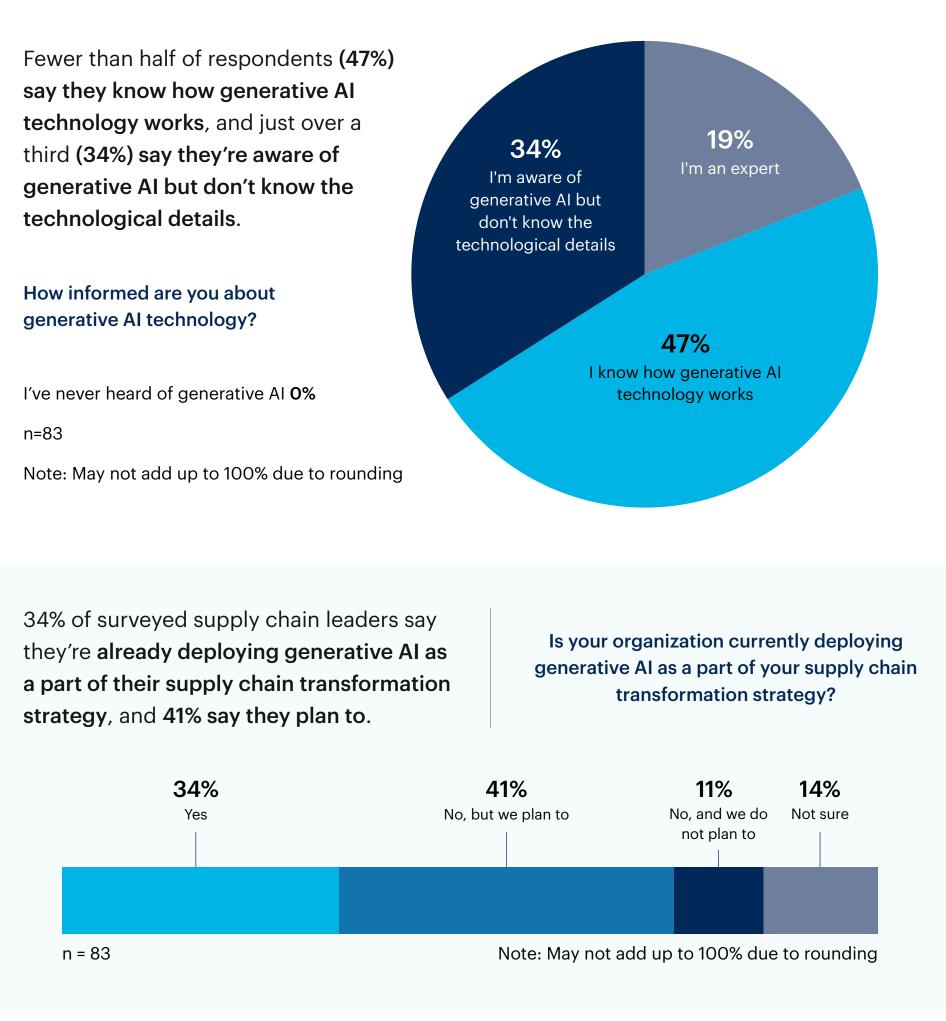
However, a lack of integration with existing tech stacks and a generative AI knowledge deficit are the primary hurdles to implementation.

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Data collection: March 25, 2023 - July 17, 2023

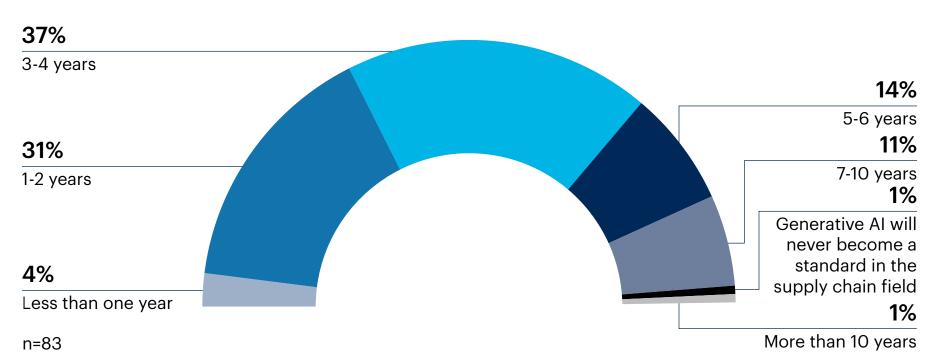
Respondents: 83 Supply Chain & Operations professionals

While generative AI is rapidly becoming standard in the supply chain community, few are confident in their expertise



The majority of respondents (72%) expect generative AI to become standard in the supply chain field within four years.

How long do you think it will take for generative AI to become standard in the supply chain field?



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



"We would need to address ongoing legal and legislative concerns about the legal issues of the data used/revealed to a model. In addition, we would require the implementation of a MS or Google proprietary instance. Finally we would need to determine the costs associated with training the proprietary models."

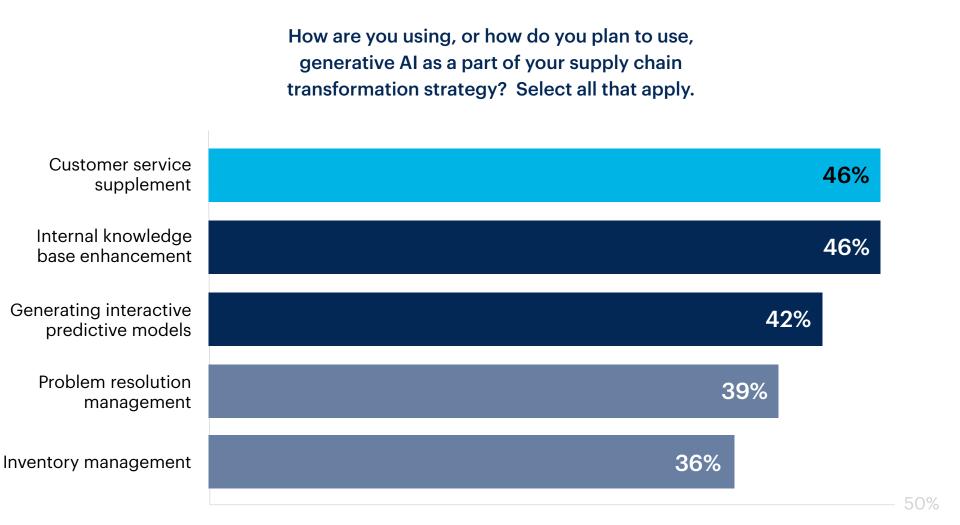
- Director, professional services, 10,001+ employees

Question: What would need to change about generative AI in order for it to be effectively applied to your supply chain transformation strategy?

Question asked only to respondents who responded "No, and we do not plan to" or "Not sure" to the question Is your organization currently deploying generative AI as a part of your supply chain transformation strategy?

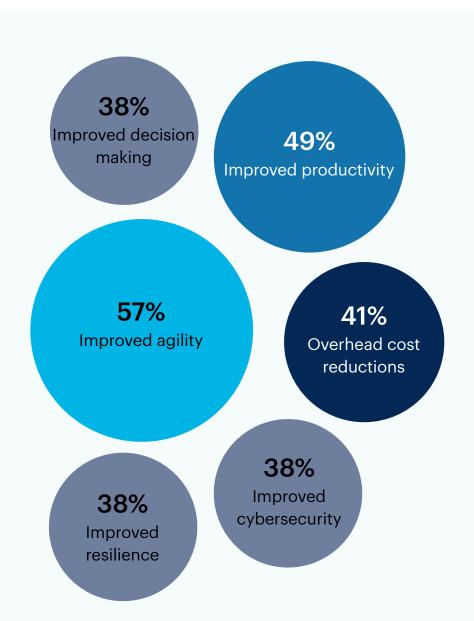
Supply chain leaders plan to use generative AI to enhance and supplement an array of existing processes, and expect positive impacts to agility and productivity

When asked about their potential GenAl use cases, **customer service supplement (46%)**, **internal knowledge base enhancement (46%)** and **generating interactive predictive models (42%)** were the three most commonly selected options.



Lower-level task automation 34% | None of these 3% | Other text 0%

Note: May not add up to 100% due to rounding Question asked only to respondents who responded "Yes" or "No, but we plan to" to the question Is your organization currently deploying generative AI as a part of your supply chain transformation strategy?



Improved agility (57%), improved productivity (49%) and overhead cost reductions (41%) were the most commonly selected benefits expected from GenAI.

= 74

What benefits have you seen, or do you expect to see, from your generative AI deployment? Select all that apply.

Improved customer satisfaction **34%** | Improved sustainability **27%** | Improved employee morale **24%** | None of these **0%** | Other text **0%**

n = 74

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

Question asked only to respondents who responded "Yes" or "No, but we plan to" to the question Is your organization currently deploying generative AI as a part of your supply chain transformation strategy?



"Ways to connect to internal knowledge. Embedded in the interface with decision automation engines to bring insights and analytics to decision or to find exceptions/impact to manage."

- Director, consumer goods, 10,001+ employees



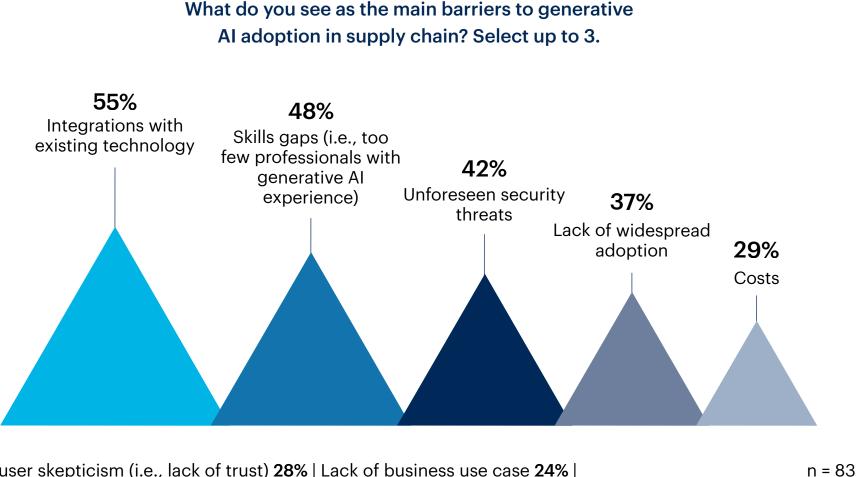
"I believe it will play a significant role in generating data but not necessarily in actual decision-making."

- Director, consumer goods, 10,001+ employees

Question: In your opinion, what is the future of generative AI in the supply chain industry?

Barriers to generative AI implementation include a lack of integration, skills gaps and a lack of transparency into generative AI decision making processes

Supply chain leaders most commonly selected **integrations with existing technology (55%)**, **skills gaps (48%)** and **unforeseen security threats (42%)** as the main barriers to generative AI adoption in supply chain.

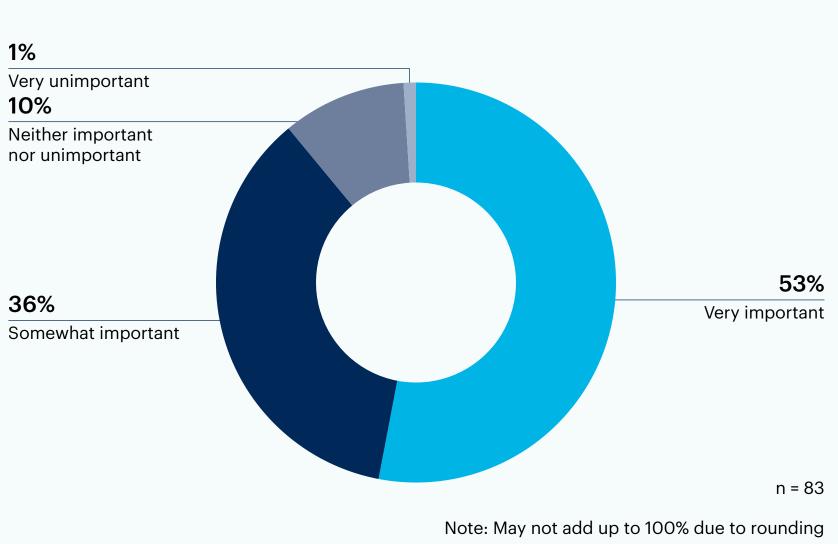


End-user skepticism (i.e., lack of trust) **28%** | Lack of business use case **24%** | Lack of executive interest **22%** | Unforeseen regulatory/governance challenges **18%** | Other **1%** | None of these **0%**

*Other includes: "AI hallucinations"

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

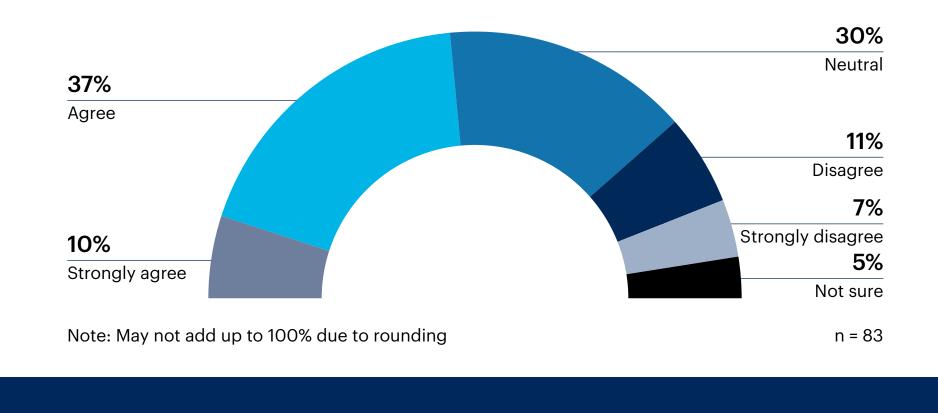
Additionally, **89%** of respondents say that it is **somewhat or very important that generative AI solutions are both transparent and explainable in their decision-making processes**.



In your opinion, how important is it that generative AI solutions are both transparent and explainable in their decision-making processes?

However, less than half of respondents (47%) agree or strongly agree that generative AI solutions currently meet this requirement.

To what extent do you agree or disagree with the following statement: Generative AI solutions are both transparent and explainable in their decision-making processes.



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"We don't know what we don't know - this is highly advanced technology that could easily have ethical implications that we are unaware of today. We need to be diligent in our approach."

- Manager, retail industry, 10,001+ employees



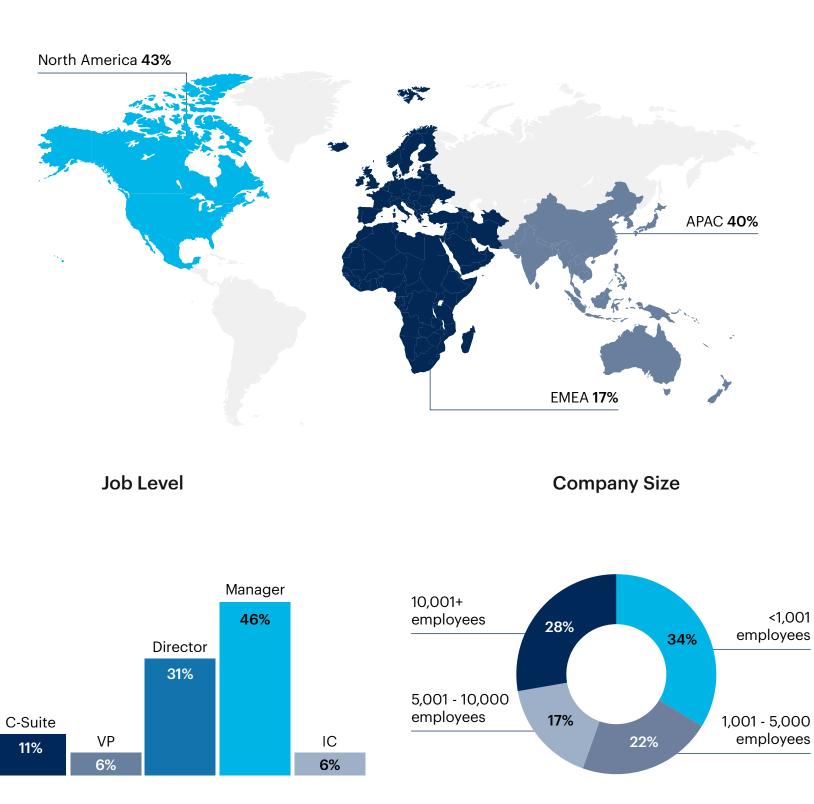
Question: What concerns, if any, do you have about the ethical implications of using generative AI in the supply chain industry?



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Respondent Breakdown

Region



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

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Source: Gartner Peer Community, Generative AI and ChatGPT: Adoption and Use survey