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#### **Choose the Best Generative AI Use Cases for Supply Chain Planning**



Jan Snoeckx

**Director Analyst** 





#### The Hype Is Real — AI Is Not Fading Away

## No.1

Al has emerged as the top technology priority in 2024, by far.

n = 419 Source: 2024 Gartner Digital Business Impact on Supply Chain



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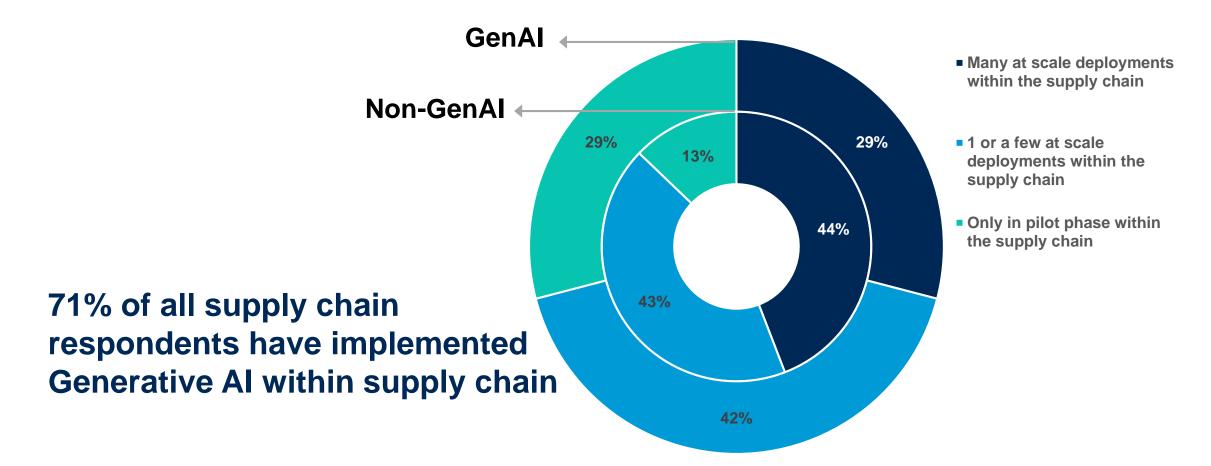
#### Al <u>Will</u> Become Table Stakes

### More than half of the participants

think AI and GenAI will be **highly disruptive** to their supply chain over the next decade.



#### **Generative AI and Non-Gen AI are beyond pilot stages**



n = 265; Respondents were excluded if they indicated they were not using both Generative AI and Non-Gen AI
 S07: Please indicate to what extent your supply chain function has deployed the following technologies beyond what already exists across the entire company.
 72% is based on the 531 respondents reaching S07 screener question; 151 respondents answered that none of the options above were true were excluded from the survey at this point.
 Source: 2024 Gartner Gen AI and AI in Supply Chain Survey

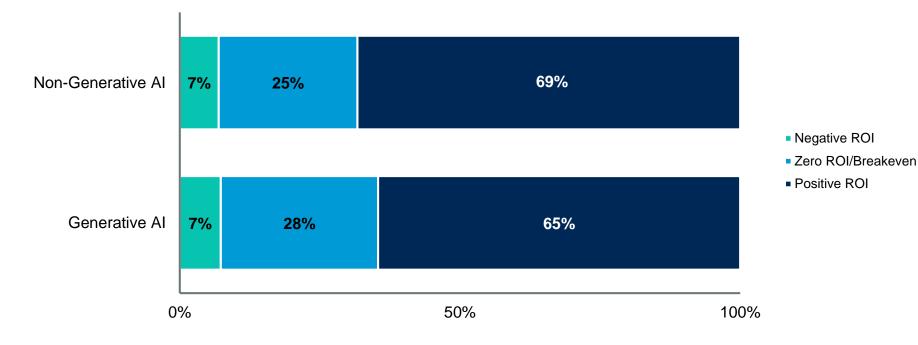


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### Just over two thirds of supply chains are seeing a positive ROI from GenAI

#### **Overall ROI for Gen AI**



#### n varies from 82-89; Leaders, excluding Unsure/I don't know.

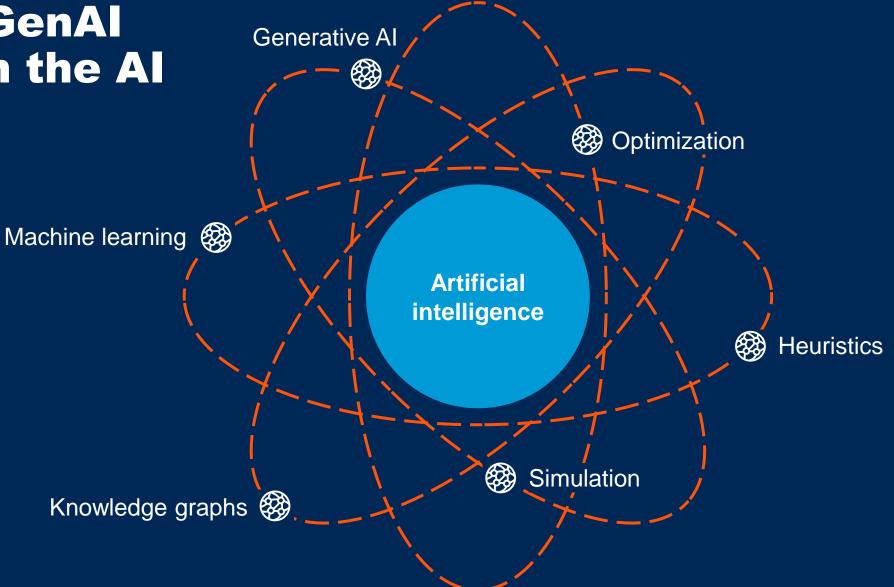
Q24: Has the overall return-on-investment (ROI) in Generative AI, been was the ROI positive , zero, or negative? Source: 2024 Gartner Gen AI and AI in Supply Chain Survey

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# Where is GenAl situated in the Al universe?

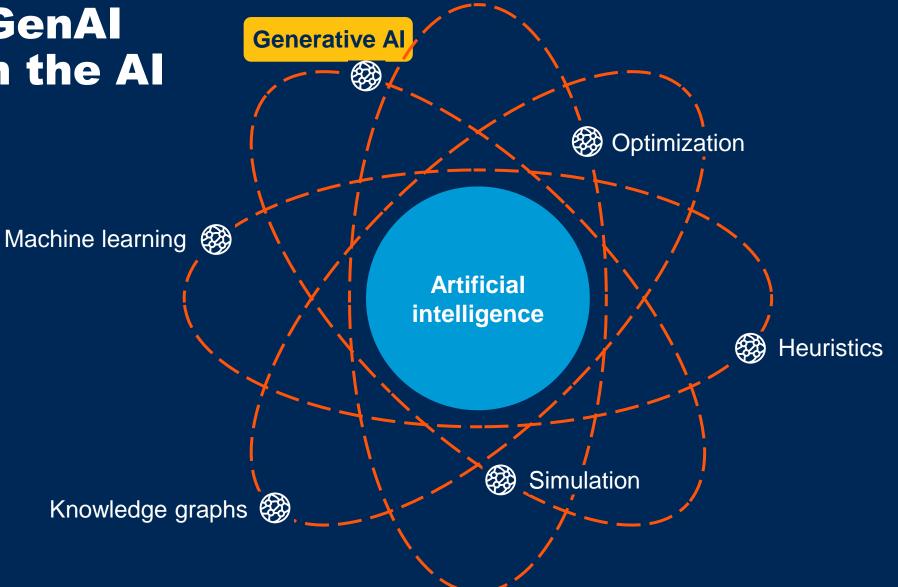




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Source: Gartner

# Where is GenAl situated in the Al universe?





Source: Gartner

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#### **Difference Between Traditional AI and GenAI**

<b>Traditional Al</b>	<b>Generative AI</b>		
Pattern Recognition	Pattern Creation		
Analyzes Data and Makes Predictions & Prescriptions	Creates New Data Similar to Its Training Data (aka Synthetic Data)		

Not Mutually Exclusive

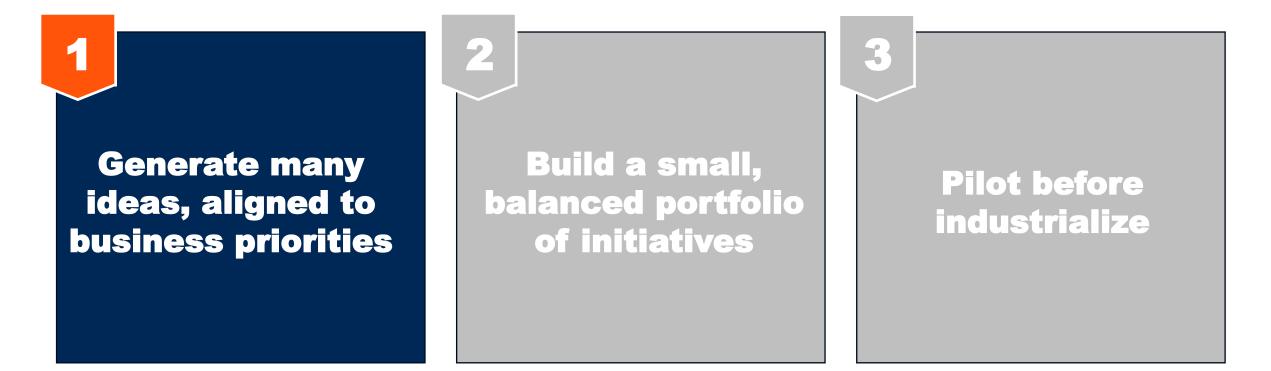


# **Today Is About Choice – how to choose the best use cases for your organization?**





#### **Build an inventory of use cases through ideation aligned with GenAl capabilities**





# Ideation and prioritization ensure alignment with business needs and potential value delivery







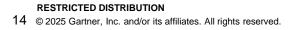


#### **GenAl to Support Managing Planning Strategy**



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General Task		Manage Planning Strategy			
	Written Content Augmentation and Creation	<ul> <li>Overall Strategy Deployment: The creation of custom presentation and communication materials for each audience (board to frontline).</li> </ul>			
Summarization		<ul> <li>Strategic Decisions Summary: Generate summary of strategic decisions made by other functions in the enterprise to inform planning decisions.</li> <li>Government Policy Summary: Use GenAl to summarize legislation submitted by governmental bodies, including environmental, social and governance (ESG) regulations, that will impact aspects of supply chain planning (SCP).</li> </ul>			
	Classification of Content for Specific Use Cases	<ul> <li>Continuous Segmentation Generation: Generate segmentation classification based on changing business, economic and value change conditions.</li> </ul>			



#### **GenAl to Support Managing Technology**



General Task	Manage Technology				
Written Content Augmentation and Creation	<ul> <li>Technology Use Guide Creation: Create procedures and documentation on how to use technology.</li> <li>RFP Creation: Create RFPs for technology evaluation.</li> <li>MSA Agreement Creation: Create master service agreement (MSA) for technology support.</li> <li>End-User Request Generation: Generate of change request by end users.</li> <li>Help Desk Ticket Generation: Generate help desk tickets/generate communication to impacted users.</li> </ul>				
Question Answering, Chatbots and Information Discovery	<ul> <li>Customized Troubleshooting: Troubleshooting specific to the end user type (individual contributor vs. manager vs. executive, etc).</li> </ul>				
Classification of Content for Specific Use Cases	<ul> <li>Functional Enhancement Summary: Summarize functional enhancements in technology upgrades and how they can impact processes, roles and governance.</li> </ul>				
Software Coding	Synthetic Data Creation: Create synthetic data for software testing and for experimentation with digital technologies.				

#### **GenAl to Support Organization Design**



General Task		Manage Organization Design			
	Written Content Augmentation and Creation	<ul> <li>COE Charter Generation: Craft/modify supply chain center of excellence (COE) charter.</li> <li>Job Description Generation: Generate job descriptions or formulate skill requirements.</li> <li>New-Hire Onboarding: Create onboarding plan for new hires.</li> </ul>			
Classification of Content for Specific Use Cases		<ul> <li>Org Chart Generation: Provide visuals of organizational structure and interconnections.</li> <li>Competency Model Generation: Generate and revise competency models based on defined preferences as circumstances change.</li> </ul>			



#### **GenAl to Support Managing Performance**



General Task	Manage Performance			
Question Answering, Chatbots and Information Discovery	<ul> <li>Tradeoff Analysis: Use chatbot functionality to help better understand trade-off relationships.</li> <li>KPI Discovery and Diagnostics: Answer Q&amp;A prompts to present and explain KPIs; conduct what-if and root cause analysis.</li> </ul>			
Summarization	<ul> <li>Performance Analysis: Write performance reports that summarize top root causes for performance deviations.</li> </ul>			



#### **GenAl to Support Managing Supply Chain Planning Processes**



General Task	Manage Supply Chain Planning Processes		
Written Content Augmentation and Creation	<ul> <li>S&amp;OP Meeting Support: Generate S&amp;OP agenda and S&amp;OP meeting materials.</li> <li>Delivery Update Email Generation: Generate emails to inform customers when delivery dates change or when a substitute product is being sent.</li> <li>SOW Creation: Creation of statements of work (SOWs) for outsourcing (business process as a service) agreements.</li> </ul>		



### **GenAl to Support Managing Supply Chain Planning Processes**



**General Task** Manage Supply Chain Planning Processes **Demand Planning Chat:** Enable chat functionality that helps planners understand plans better: What is possible? What are the risks? What assumptions drive the plan? **Question Answering**, **Supply Plan Analysis:** Use chat functionality to help planners understand plans Chatbots and better: What is possible? What are the risks? Information Discovery **Data Modification Analysis and Reduction:** Use GenAl to analyze and summarize commonly used reason codes to changes in data and ask what modifications can be made to reduce planners modifying the data. **Pending and Proposed Regulation Summary:** Summarize pending and proposed regulations that will impact demand. Immarization **Regulation Supply Impact Summary:** Summarize pending and proposed regulations that will impact supply response.





#### GenAl to Support Managing Supply Chain Planning Processes

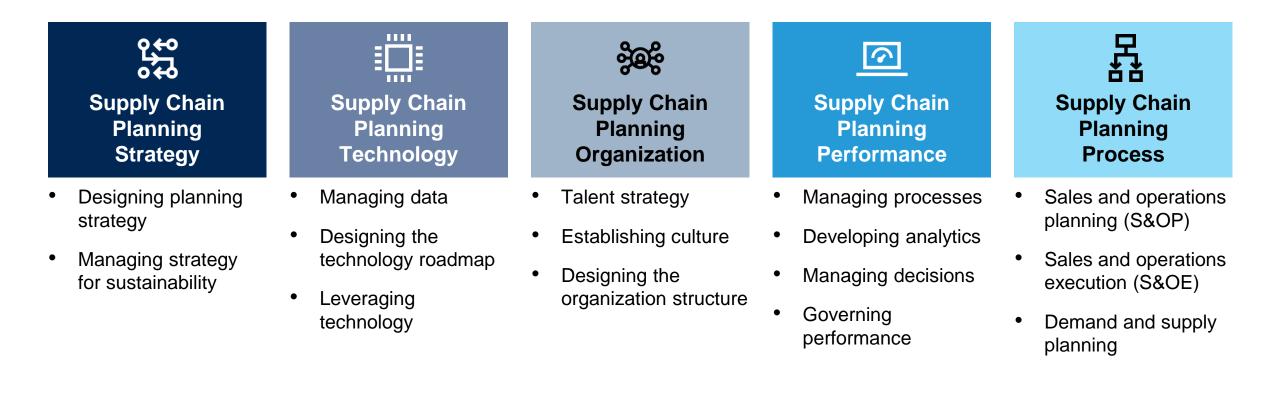


Cont'd

General Task	Manage Supply Chain Planning Processes			
Classification of Content for Specific Use Cases	<ul> <li>Segment Demand Generation: Generate segments for demand segmentation activities.</li> <li>New Segment Forecasts: Forecast generation for new categories of products or services.</li> <li>Scenario Generation: Use GenAI to generate scenarios and predict impacts on metrics and KPIs to enable S&amp;OP.</li> </ul>			
Software Coding	<ul> <li>Continuous Model and Algorithm Generation: Use GenAl for automatic generation of models and algorithms as business conditions change. Either modification of existing model or algorithm which results in something net-new</li> <li>Synthetic Data Development: Develop synthetic data to support simulations.</li> </ul>			



#### **Aligning GenAl With Supply Chain Planning Objectives**





# Funnel ideas into a small selection of diverse initiatives





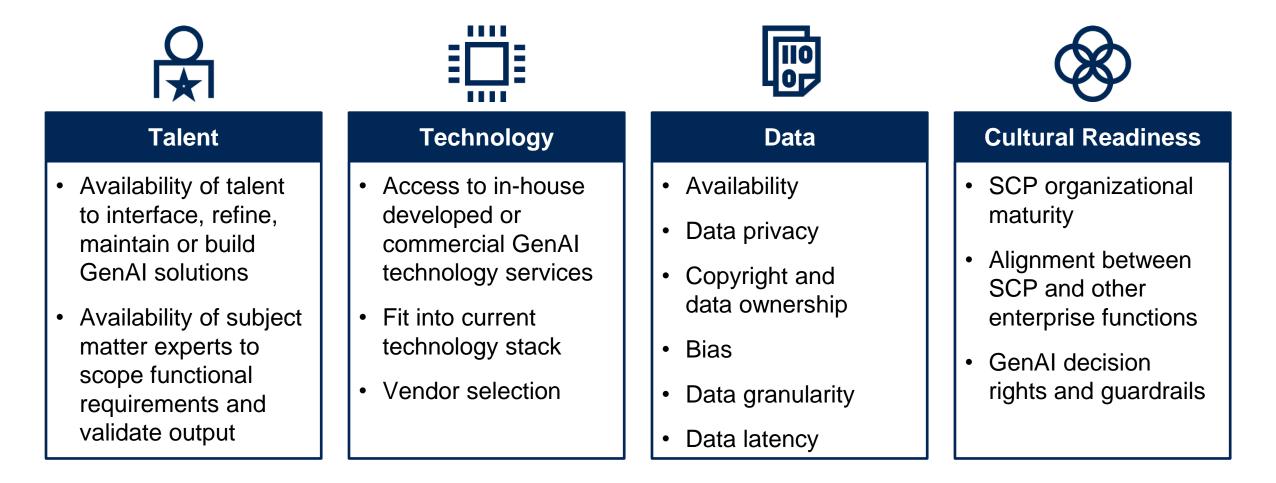
## **Ensure strategic alignment questions are answered**

Stakeholders and vision	What is our purpose in pursuing the technology?
Workflow and timeline	Do you have the right steps and process to get there?
Use cases	Which workflows will it impact most?
Governance	Do you have a management structure in place to guide it?
Engagement	How do we inform our employees of GenAl's impact?

**Strategic question** 



#### **Initial Considerations: Feasibility**





#### **Initial Considerations: technique suitability**

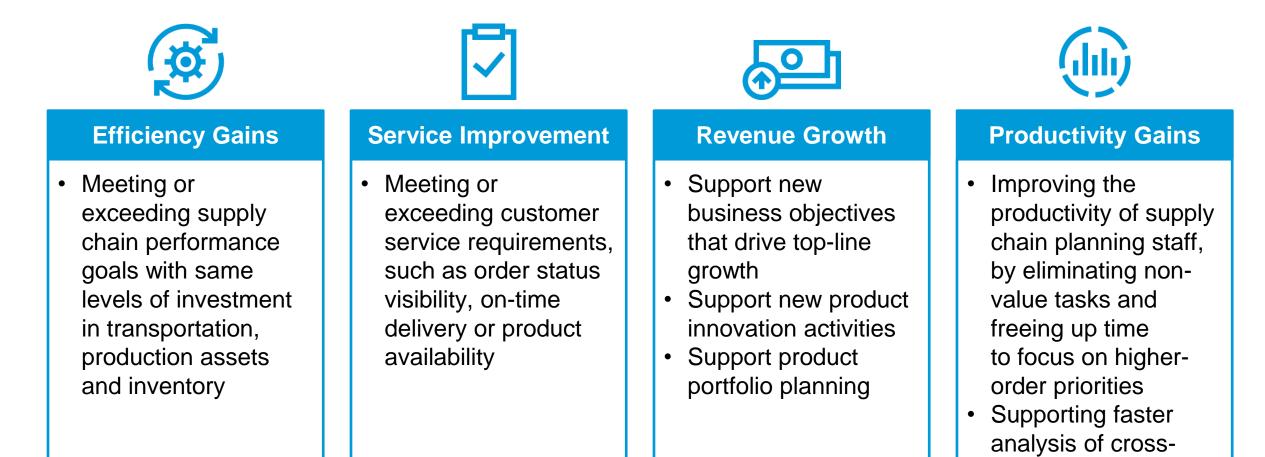
Al technique suitability 📃 Low (L) 📕 Medium (M) 📕 High (H)

	Common AI techniques					
Use-case families	Generative models	Nongenerative machine learning	Optimization	Simulation	Rules/ heuristics	Graphs
Prediction/ forecasting	L	н	L	н	М	L
Planning	L	L	н	М	Μ	н
Decision intelligence	L	м	н	н	н	М
Autonomous systems	L	м	н	Μ	Μ	L
Segmentation/ classification	м	н	L	L	н	н
Recommendation systems	м	н	М	L	м	н
Perception	м	н	L	L	L	L
Intelligent automation	м	н	L	L	н	м
Anomaly detection/ monitoring	м	н	L	м	м	н
Content generation	н	L	L	н	L	L
Conversational user interfaces	н	Н	L	L	м	н
Knowledge discovery	н	м	L	L	м	н

Source: Gartner 806238\_C



#### **Initial Considerations: Business Value**



functional data

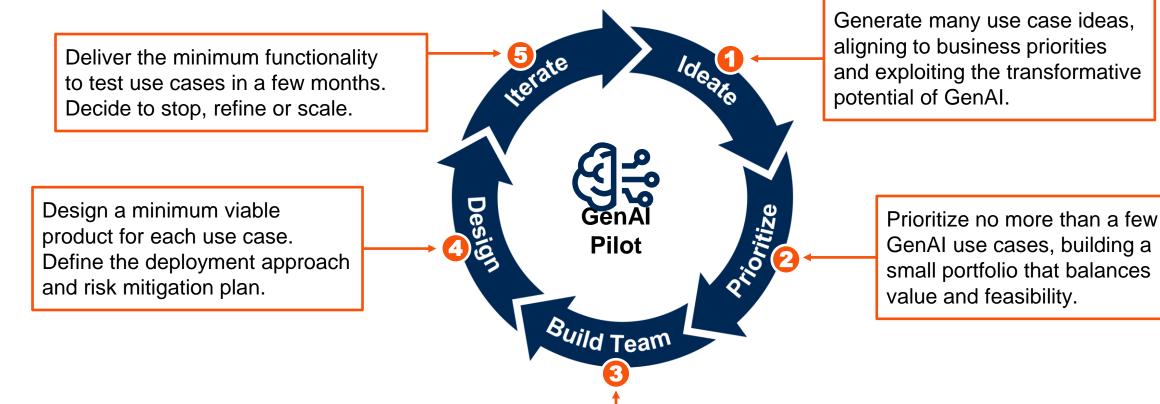
# Funnel ideas into a small selection of diverse initiatives





#### **The Generative AI Pilot Lifecycle**

#### **Generative AI Pilot Cycle**



Build a dedicated team for the pilot, including business partners, software developers and AI experts.

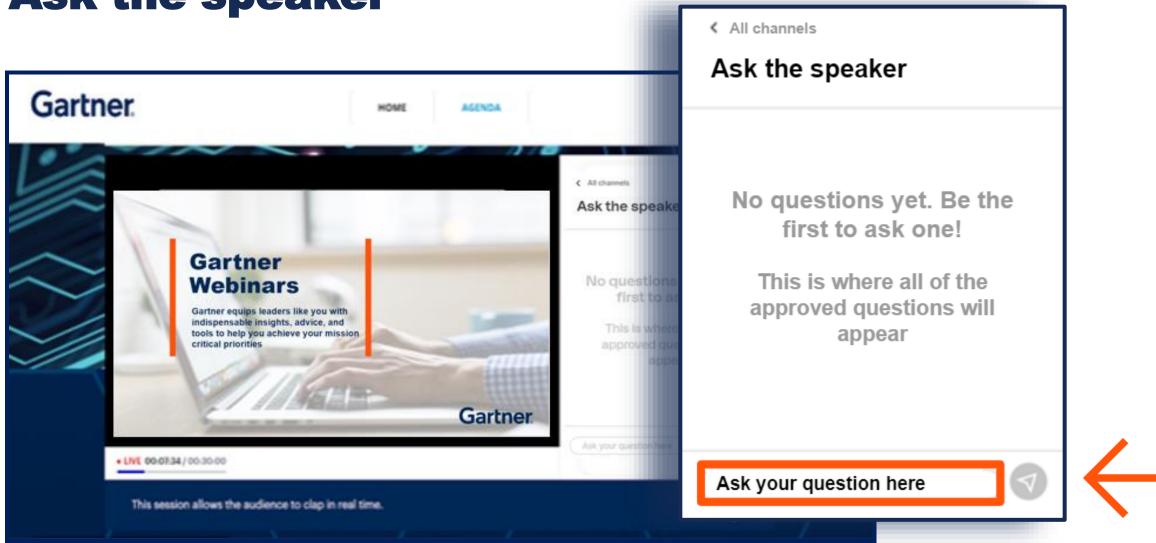
Source: Gartner



### **Thank You**



#### Ask the speaker





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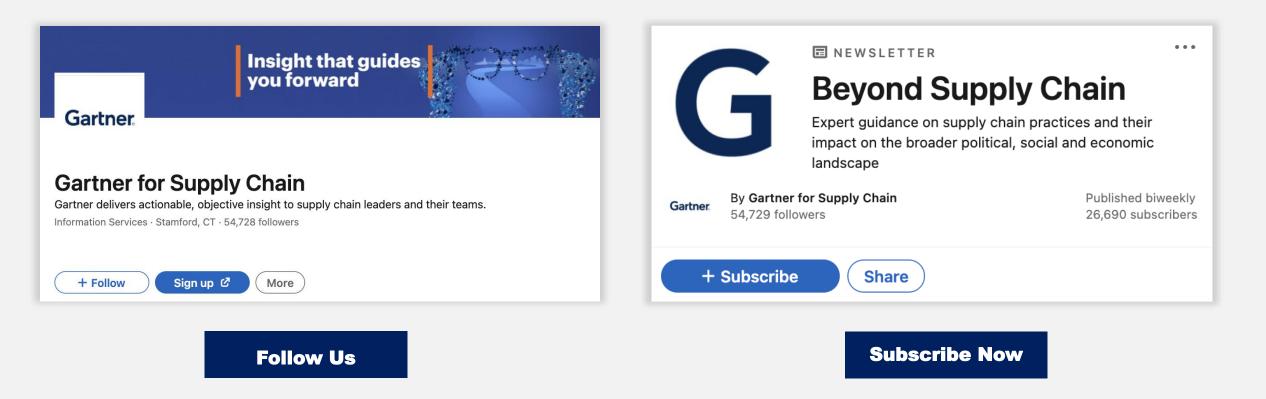


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