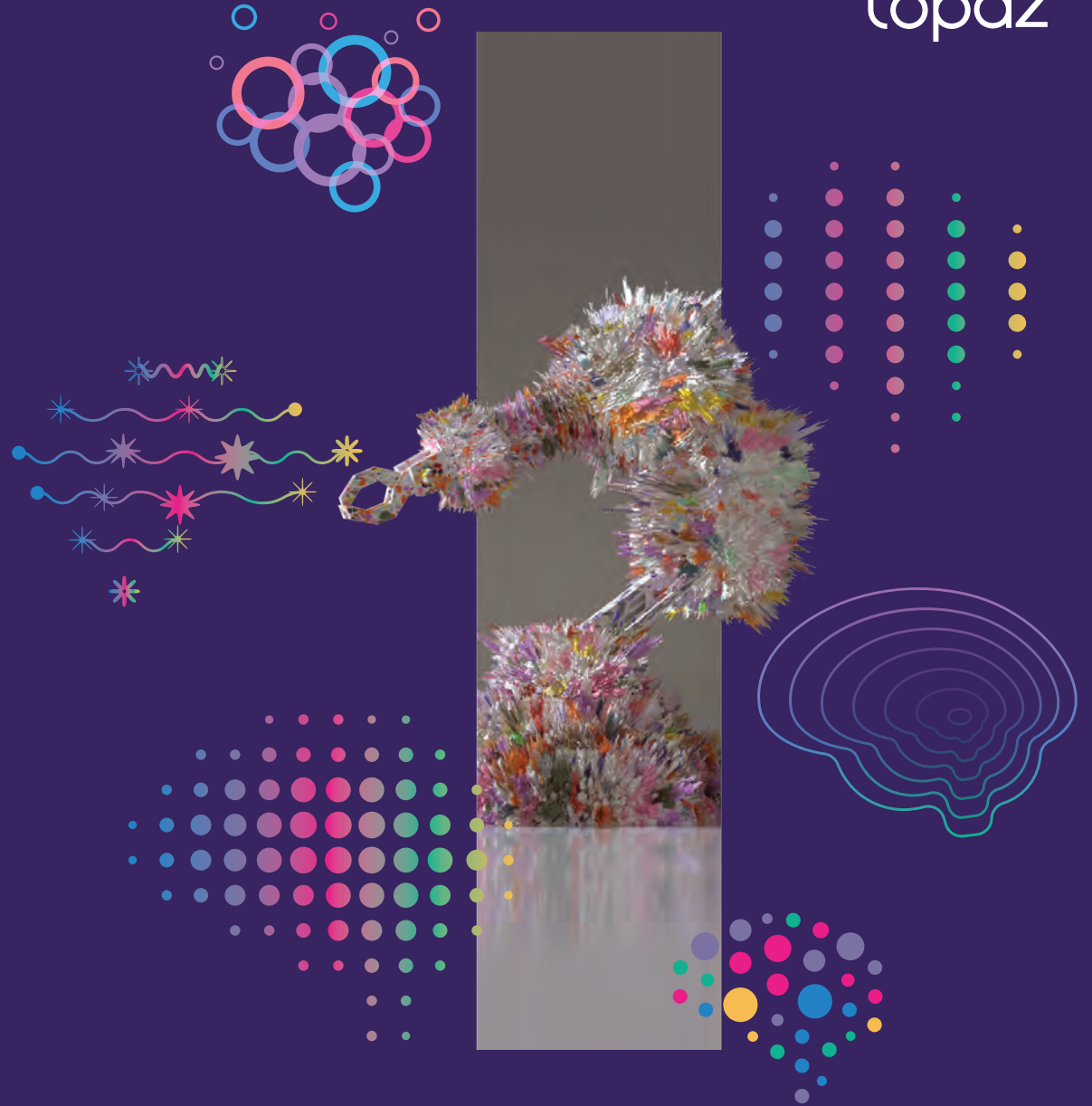


# GENERATIVE AI RADAR MANUFACTURING

Infosys  
topaz



# Generative AI Radar – Manufacturing

## Generative AI is still new, yet enterprises are already exploring its transformative potential

This year will bring further developments in generative AI as organizations get to grips with it.

Through this study we aimed to uncover how companies use generative AI, how much they spend on it, how it's being rolled out in organizations large and small, and where it makes an impact. We looked at 3,000 companies across 12 industries:

- Automotive
- Consumer package goods
- Energy, mining, and utilities
- Financial services
- Healthcare
- High tech
- Insurance
- Life sciences
- Logistics and supply chain
- Manufacturing
- Retail and hospitality
- Telecommunications

**Many companies told us they are already spending significant sums of money - and are set to spend more this year. However, this pattern isn't the same across sectors. In this data book we highlight how manufacturing compares with the rest of the pack.**

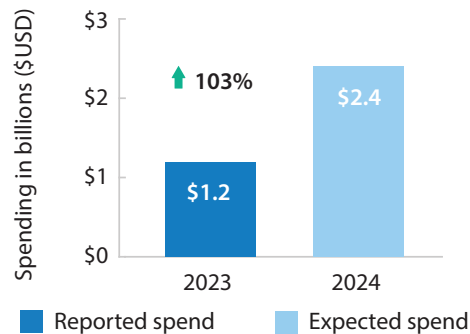
# Spending will double

## Manufacturing's spending growth is rapid but weaker than the overall trend

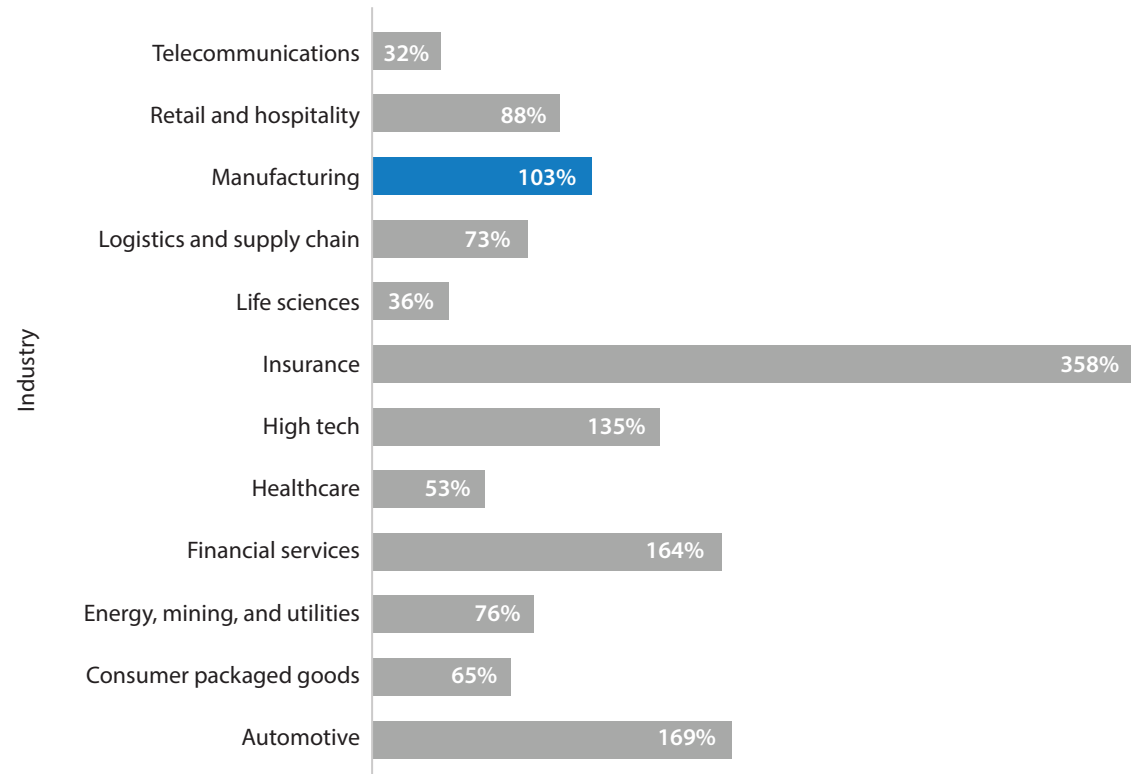
### Manufacturing's spending is set to grow by 103% in next year –

The industry spent more than \$1 billion on generative AI in 2023, with this projected to grow to \$2.4 billion in 2024.

### Manufacturing generative AI spending



### Expected generative AI spending growth in 2024 by industry



Expected generative AI spending growth in 2024

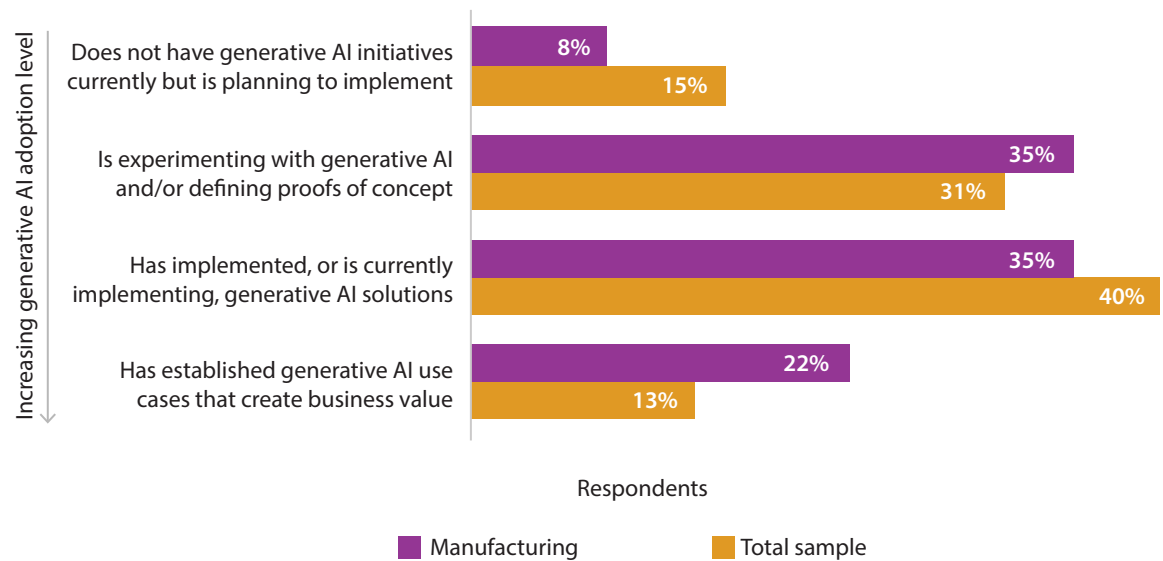
# Generative AI beds in

## Manufacturing firms lead other sectors with use cases that create business value

**92% of manufacturing companies have started their generative AI journey** – Only 8% of manufacturing companies have not started experimenting with generative AI, compared with 15% of the overall trend.

**22% of manufacturing companies have use cases that create business value** – 22% of manufacturing companies have already created business value through their generative AI use cases, compared with 13% of our overall sample.

Generative AI adoption by proportion of respondents



| Note: Percentage numbers do not add up to 100% because of rounding.

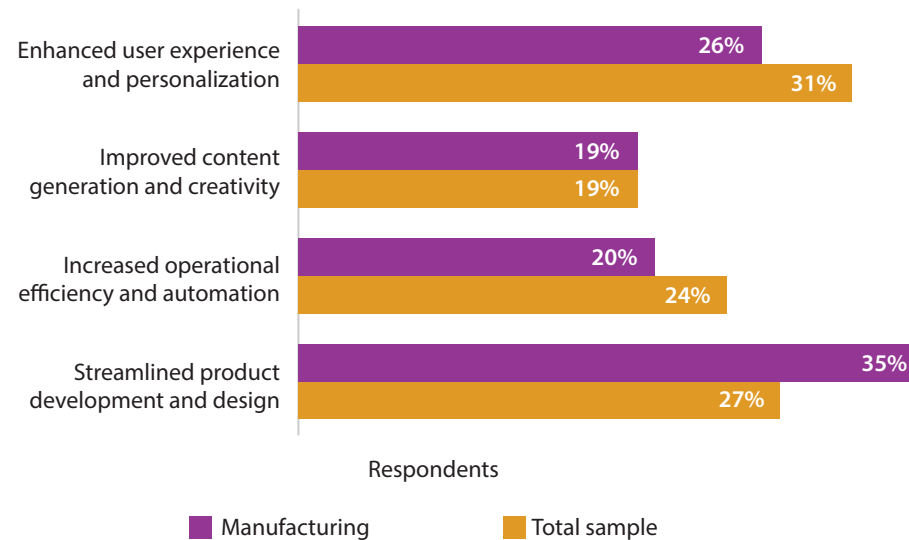
# Product development drives manufacturing's generative AI optimism

## User experience also top of manufacturing's list

### High optimism for streamlined product development –

Manufacturing companies expect generative AI to have higher positive impact on streamlined product development and design than the overall sample (35% vs 27%).

Where companies expect generative AI to have the most positive impact



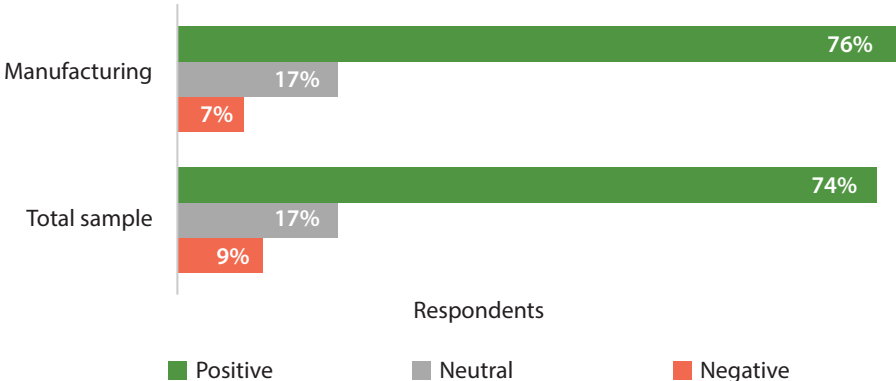
| Note: Percentage numbers do not add up to 100% because of rounding.

# Business impact sentiment

## Manufacturing is just as positive about generative AI's business impact as the overall trend

The manufacturing industry is positive about generative AI's impact on business – 74% of manufacturing believes generative AI will have a positive impact on business. Only 9% of manufacturing expressed a negative sentiment.

Expected generative AI impact on business areas by proportion of respondents



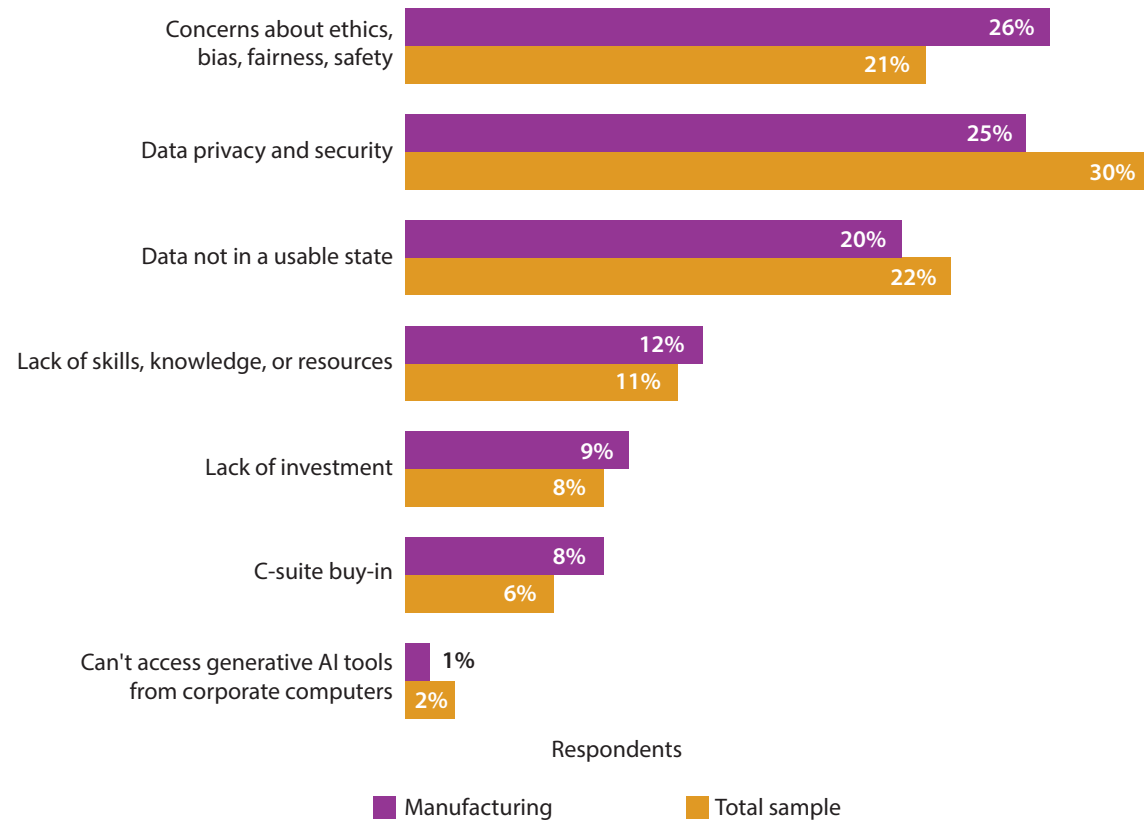
| Note: Percentage numbers do not add up to 100% because of rounding.

# Obstacles to generative AI adoption

## Manufacturing is most concerned with ethics, bias, and data privacy

**Manufacturing firms worried about ethics, bias, and data privacy** – 26% of manufacturing ranked ethics, bias, fairness, and safety as their top challenge to generative AI adoption. Another 25% ranked data privacy and security as key obstacles. These sentiments are statistically the same as the overall trend.

Obstacles to generative AI adoption by proportion of respondents



| Note: Percentage numbers do not add up to 100% because of rounding.



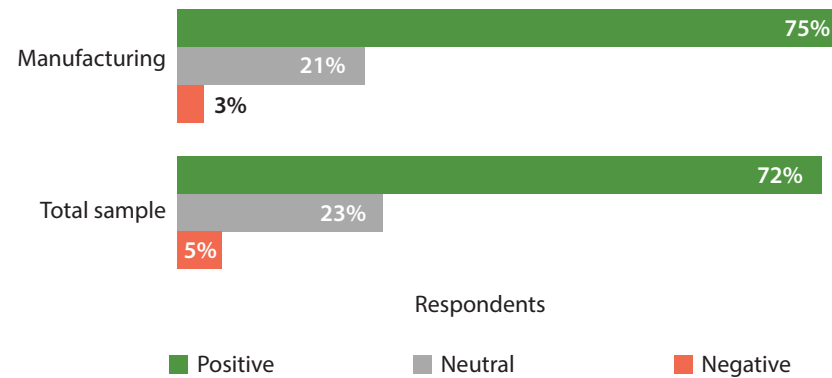


# Confidence in ability to manage and control generative AI systems

Only 3% of the manufacturing sector is negative about their ability to manage generative AI

**Manufacturing companies are confident in their generative AI management** – 75% of manufacturing is positive in their ability to manage generative AI, statistically in line with the overall trend. Only 3% of manufacturing expressed a negative sentiment.

Confidence in ability to manage generative AI by proportion of respondents



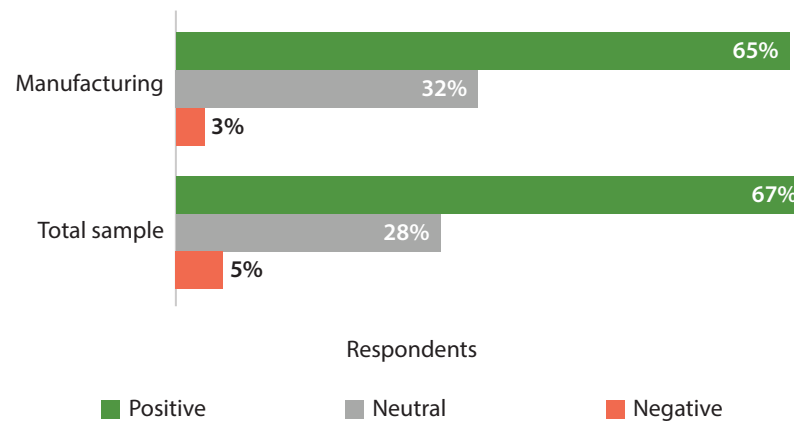
Note: Sentiment on confidence in managing generative AI systems. Percentage numbers do not add up to 100% because of rounding.

# Manufacturing confident in workforce readiness

Most manufacturing companies are confident about the readiness of their workforce for generative AI

Manufacturing companies are confident that their teams are ready for generative AI – 65% of manufacturing is positive about workforce generative AI readiness, statistically in line with the overall trend (67%).

Sentiment on workforce readiness to adopt generative AI by proportion of respondents



Note: Sentiment on confidence in managing generative AI systems. Percentage numbers do not add up to 100% because of rounding.

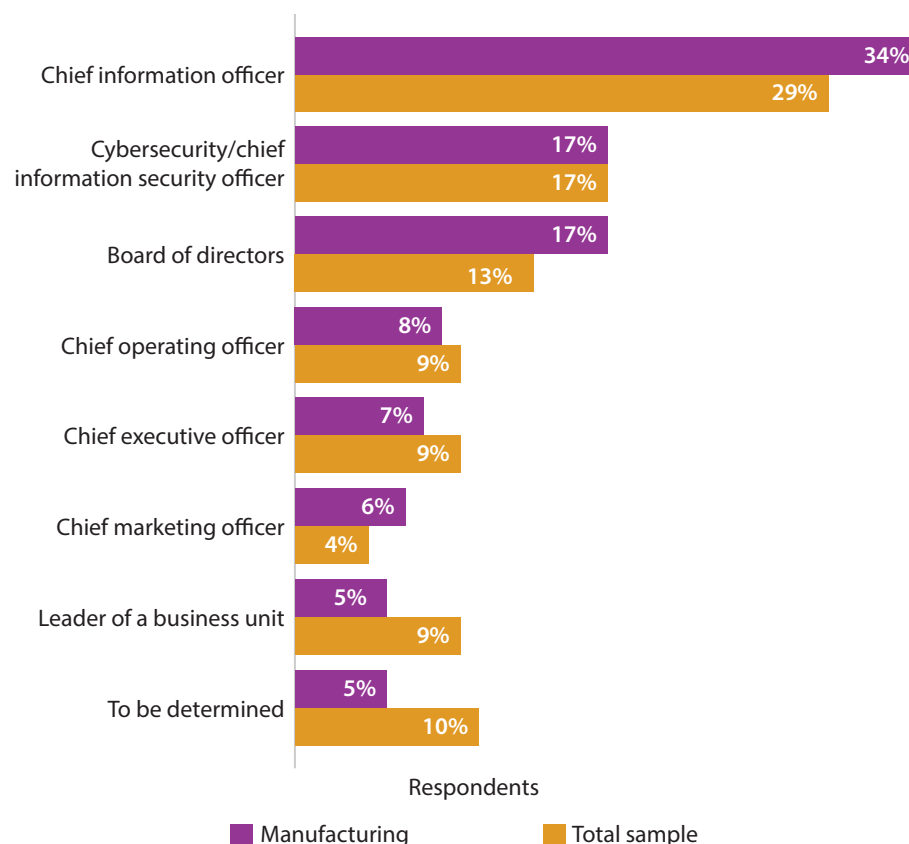
# Manufacturing firms focused on generative AI leadership

## CIOs are the main sponsors of generative AI for manufacturing companies

**CIOs sponsor generative AI in manufacturing** – Manufacturing companies are focused on IT requirements of generative AI, with CIOs as the most likely primary sponsors.

**Fewer manufacturing companies report no one as the primary sponsor** – 10% of the overall sample report the primary generative AI sponsor as “to be determined.” Only 5% of manufacturing reported the same.

Primary sponsor of generative AI initiatives by proportion of respondents



| Note: Percentage numbers do not add up to 100% because of rounding.

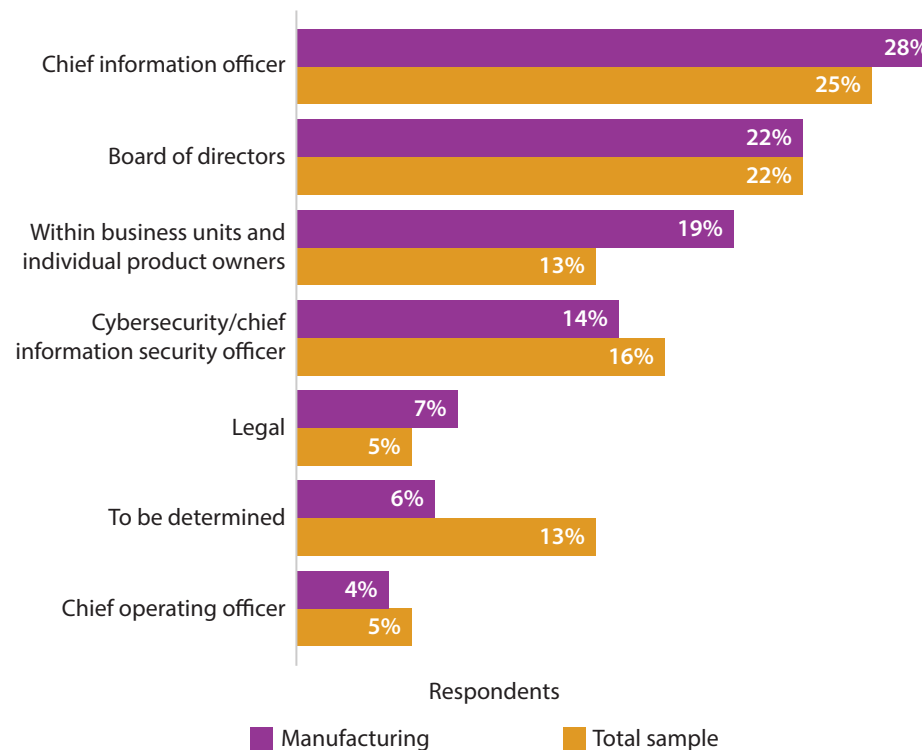
# CIOs and boards take lead on regulation

But more manufacturing firms prepared to devolve leadership on regulation to lower levels

**Chief information officers and boards of directors take the regulatory lead** – 28% of CIOs and 22% of boards of directors take the lead on the definition of generative AI regulations and policies.

**However, individual product owners also have a say** – manufacturing product owners (19%) take the lead more often compared with the overall trend (13%).

Primary generative AI policy maker by proportion of respondents



| Note: Percentage numbers do not add up to 100% because of rounding.

## About Infosys Knowledge Institute

The Infosys Knowledge Institute helps industry leaders develop a deeper understanding of business and technology trends through compelling thought leadership. Our researchers and subject matter experts provide a fact base that aids decision making on critical business and technology issues.

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