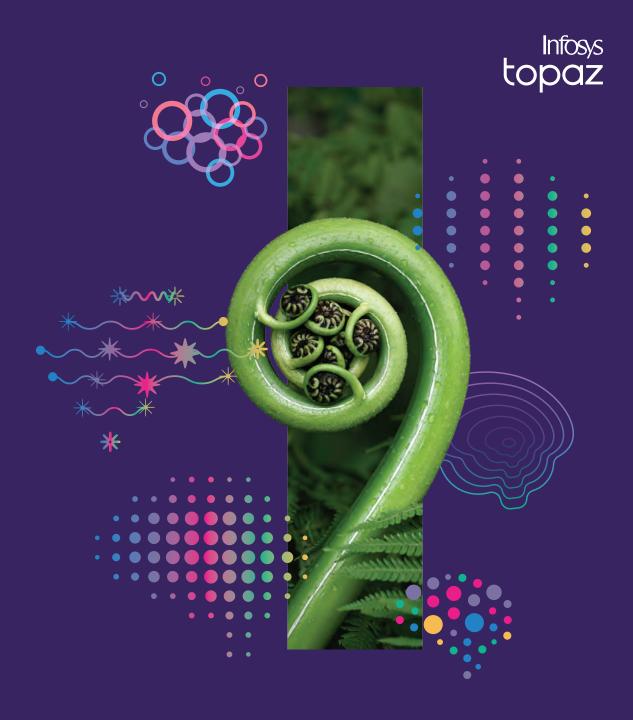
GENERATIVE AI RADAR LIFE SCIENCES



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Generative Al Radar – Life sciences

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 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 life sciences compares with the rest of the pack.

Generative AI spending growth is slow

Life sciences' generative AI spending projected to grow slower than most industries this year

Life sciences spending set to grow 36% in 2024 – Life sciences firms spent \$470 million on generative AI in 2023. This is projected to grow to \$637 million in 2024. This ranks life sciences among lowest spending sectors, about the same as telecommunications.

Life sciences generative AI spending

36%

\$470

2023

Spending in millions (\$USD)

800

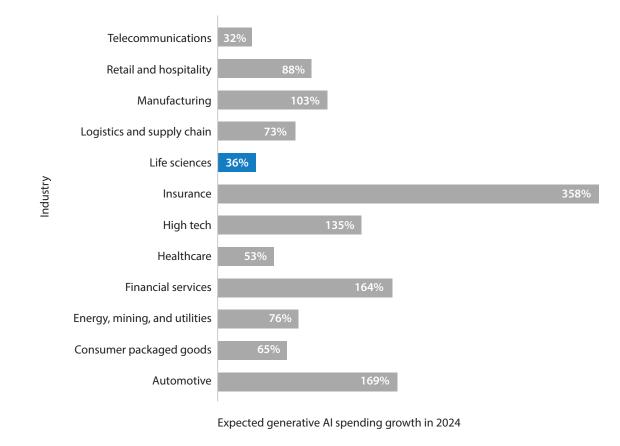
600

400

200

0

Reported spend



Expected generative AI spending growth by industry

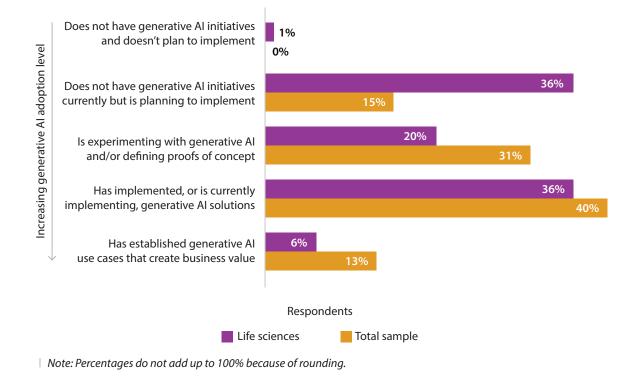
2024

Expected spend

Life sciences firms lag in generative AI implementation

More than one-third of life sciences firms are implementing generative Al solutions

Over one-third of life sciences companies yet to start their generative Al journey – 36% of the life sciences firms haven't started their generative Al journey, more than double the overall trend (15%).



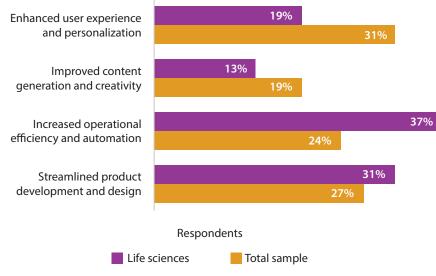
Generative AI adoption by proportion of respondents

Generative AI optimism leans toward efficiency

Life sciences sector outstrips overall trend with high hopes for operational efficiency and automation

Life sciences industry is most optimistic about generative Al's impact on efficiency and

automation – 37% of life sciences companies expect generative Al to have a positive impact on operational efficiency and automation — significantly higher than the overall trend (24%).



Where companies expect generative AI to have the most positive impact

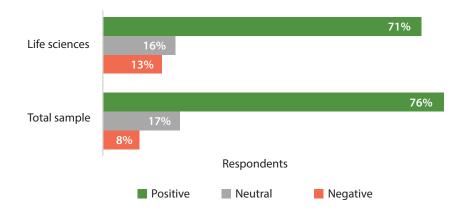
Note: Percentages do not add up to 100% because of rounding.

Majority of life sciences companies are positive generative Al's impact

However, the sector's negative sentiment is much higher than the overall trend

Life sciences is less positive about generative Al's business

impact – 71% of life sciences
companies believe generative AI will
have a positive impact on business.
13% expressed a negative sentiment,
higher than the overall trend (8%).



Expected generative AI impact on business areas by proportion of respondents

Note: We calculated "business impact sentiment" by asking survey respondents to rate their sentiment on generative AI's impact on the following business areas: business model, cost efficiency, profit, reputation, revenue, and talent. Then we combined those answers into one measure.

Nearly half of sector held back by privacy concerns

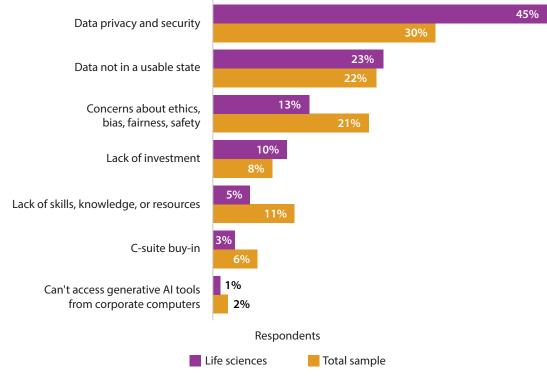
Data privacy and security top the list of generative AI barriers but life sciences is less worried about ethics

Data privacy and security is the top barrier to generative AI

adoption – 45% of life sciences sector ranked data privacy as their top barrier to generative Al adoption, much higher than the overall trend.

Ethics and bias are less of a

barrier – Just 13% of life sciences companies are concerned with ethics and fairness, compared with the overall trend (21%).



Note: Percentage of respondents ranking challenge as biggest obstacle to implementing generative Al. Percentages do not add up to 100% because of rounding.

Obstacles to generative AI adoption by proportion of respondents



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Tepid confidence in ability to manage generative AI systems

Life sciences sector's confidence in generative AI management is significantly lower than the overall trend

Life sciences companies are much less confident in their generative

Al management – Only 50% of life sciences is positive in their ability to manage generative Al, much lower than the overall trend. 15% of life sciences expressed a negative sentiment, significantly higher than overall trend (5%).

Life sciences 50% Life sciences 35% 15% Total sample 23% 5% Respondents Respondents

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

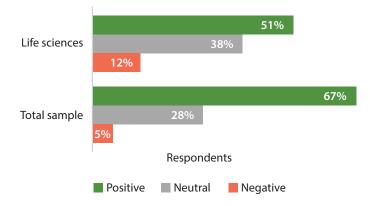
Confidence in ability to manage generative AI systems by proportion of respondents

Workforce generative AI readiness is a concern or life sciences

Only 50% of life sciences firms are positive about their team's readiness to adopt generative AI

Life sciences is twice as negative about workforce readiness –

Life sciences is significantly more negative about workforce generative Al readiness than our overall sample (12% vs. 5%).



Note: Sentiment on workforce readiness to adopt generative Al. Percentages do not add up to 100% because of rounding.

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

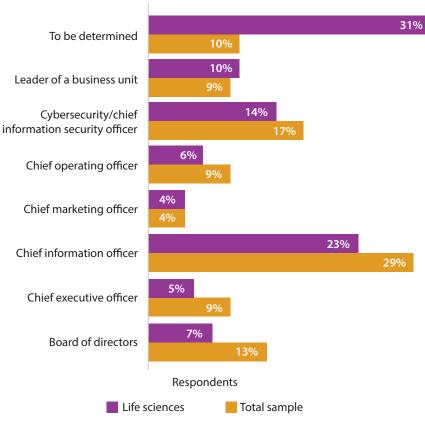
Life sciences still determining who sponsors generative AI initiatives

But CIOs are the primary sponsor for 23% of life sciences firms

One-third of life sciences firms are yet to establish a primary generative AI sponsor – 31% of life sciences sector are still determining their primary generative AI sponsors, significantly higher than the overall trend (10%).

CIOs sponsor generative Al generative Al initiatives more

often – 23% of life sciences firms report that the CIO primarily sponsors generative Al.



Primary sponsor of generative AI initiatives by proportion of respondents

Note: Percentages do not add up to 100% because of rounding.

Generative AI governance is less concrete

Governance is most likely undetermined for one-third of life sciences sector

without a designated generative Al policy maker – 33% of life 10% Within business units and sciences respondents haven't 13% individual product owners determined who governs generative 33% To be determined Al, compared with only 13% of the 5% Legal 5% 17% Cybersecurity/chief information security officer 16% 2% Chief operating officer 5% 21% Chief information officer or otherwise within IT 25% 12% Board of directors 22% Respondents Life sciences Total sample Note: Percentages do not add up to 100% because of rounding.

Primary generative AI policy maker by proportion of respondents

More life sciences companies

overall trend.



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