



CapeStart's Life Science AI Research Report

September 15, 2024

Methodology

Method	9-Minute Survey 14 Questions
Audience	Life Science Professionals
Sample Size	142
Fielding Period	July 5, 2024 – September 3, 2024

This report explores life sciences professionals and their sentiments on AI, examining:

- Perspectives on AI
- Current AI Initiatives
- AI Capabilities & Support
- AI-Related Goals
- Impact Areas
- Barriers to Success
- Perspectives on Outsourcing
- Sources of Information
- Professional Associations
- Sources of Information
- Respondent Details

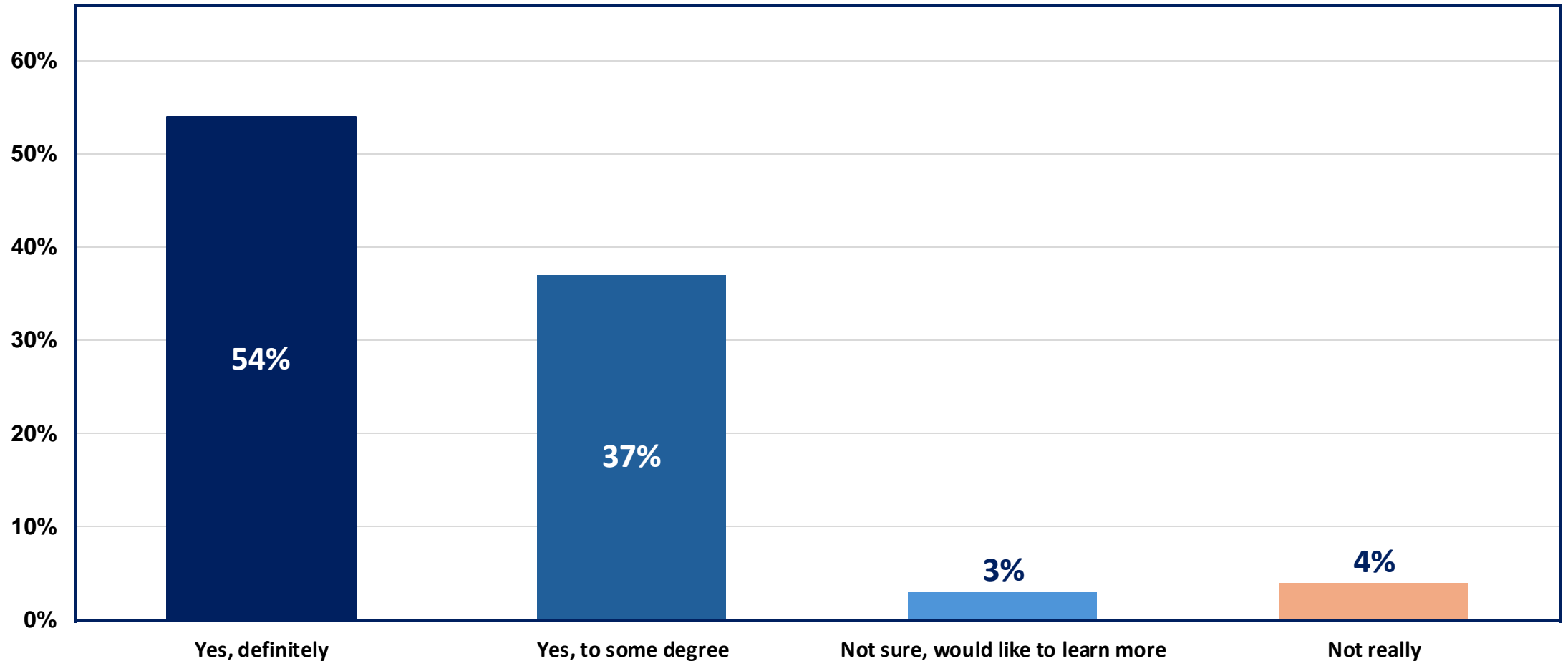
Life sciences professionals shared the following key insights on AI in this report:

- Ninety-one percent of respondents believe AI can assist and empower their work, while only 7% are skeptical.
- Three-fourths of respondents are using, testing, or exploring AI solutions, with only a quarter not considering AI yet.
- Although 57% report having the capability to implement AI strategies, they also lack sufficient vendor support to do so effectively.
- Almost half (49%) of respondents have AI goals centered around improving efficiency, with some still waiting for standards or in discovery phases.
- Workflow efficiency, document generation, summarization, and clinical research are viewed as areas where AI could drive the most business impact.
- Major barriers to AI adoption include lack of expertise, concerns about data accuracy and quality, and cost constraints.
- Teams are looking to vendors to provide expertise and expedite their AI initiatives.
- Respondents belong to various professional associations like ASCO, ESMO, and ISPOR, and rely on journals and industry websites for insights.

Research Findings

Belief in AI's Potential

Most respondents think AI can help them, with 91% believing, at least, to some degree that it can assist and empower their work and just 7% skeptical of its value.

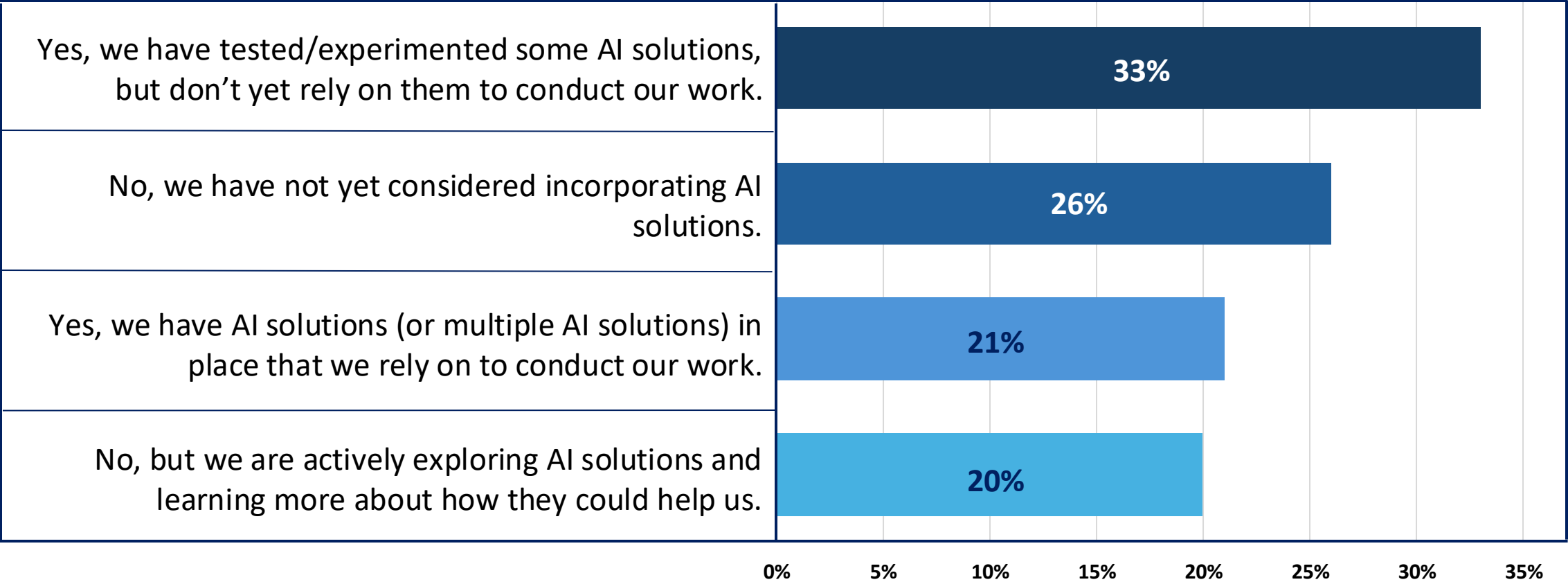


Q1. Do you currently believe that Artificial Intelligence (AI) can assist and empower your work?

n=142

Current AI Initiatives

Three out of four respondents are using, testing, or actively exploring AI solutions, with just a quarter not considering them yet.

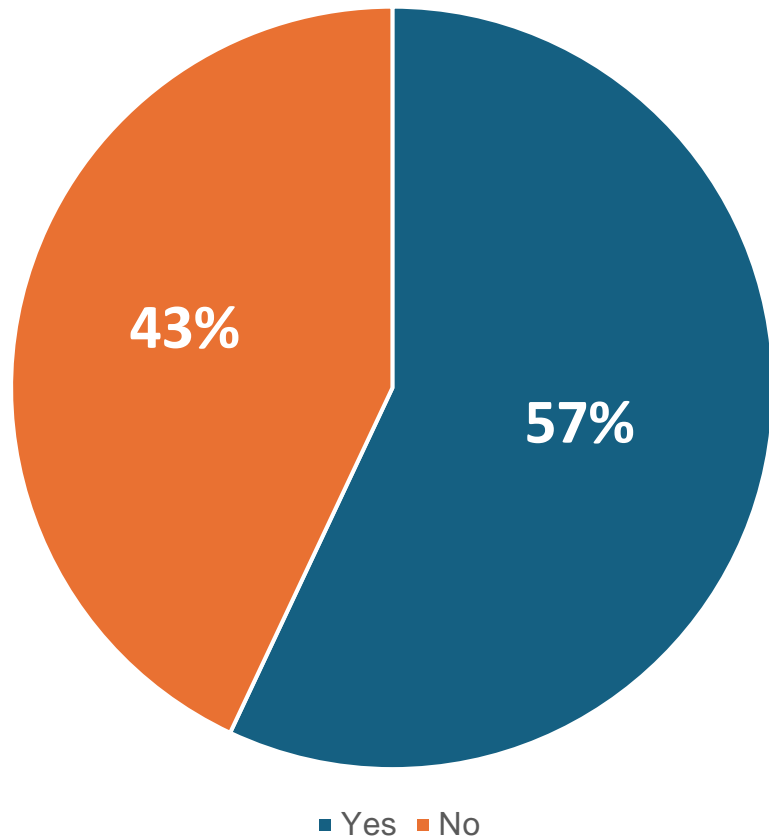


Q2. Are you currently involved with one or more AI initiatives? Choose the response that best fits your team’s status regarding use of AI.

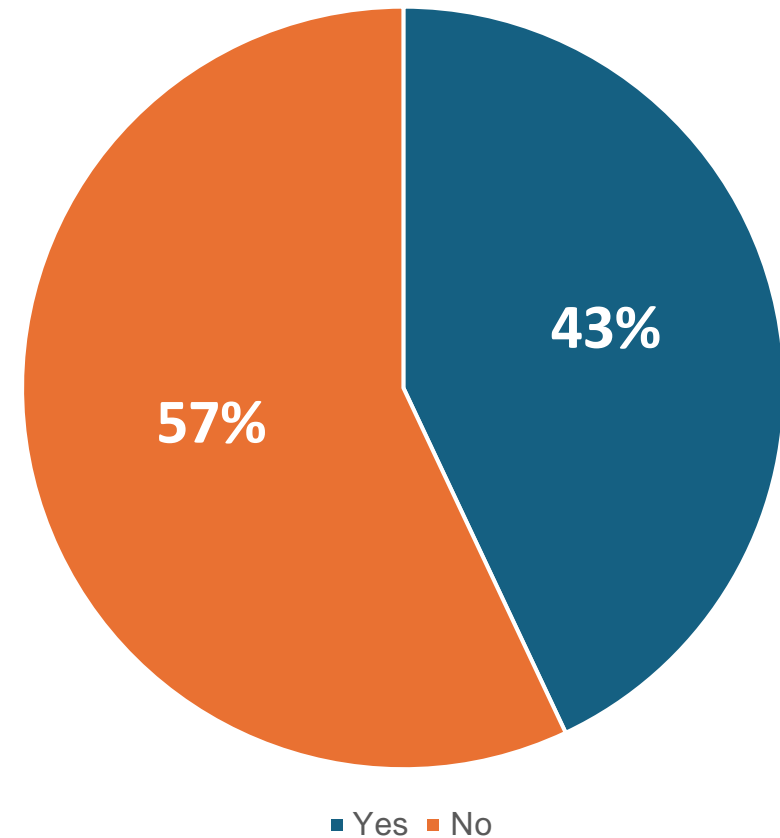
n=138

AI Capabilities & Support

Though 57% of respondents report that they have the capability to implement their AI strategies, the same number lack support from vendors to help them with their strategy.



Q3. Does your team have the capability to implement your AI strategy? n=130

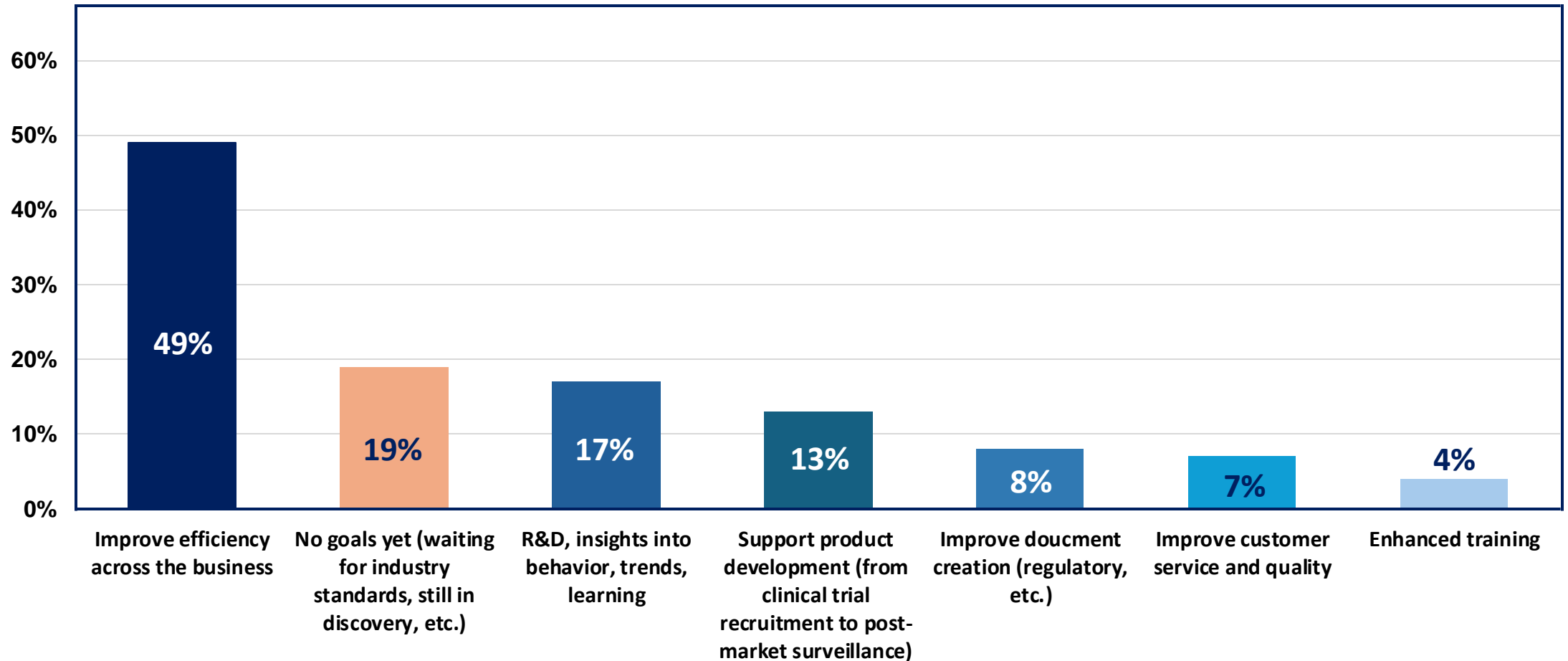


Q4. Do you have vendors to help you with your AI strategy?

n=129

Team AI-Related Goals

Nearly half of respondents (49%) have AI goals around efficiencies across the business, with one in five respondents reporting no AI goals yet, though many in discovery or waiting for standards.



Q5. What are your team's goals related to exploring AI to improve team performance?

n=120

AI Impact Areas

Respondents report that workflow efficiency, document generation and summarization, and clinical research are the top areas they believed AI could have the greatest business impact.



Workflow Efficiency



Document Generation & Summarization



Clinical Research

n=111

Barriers to Success with AI

Respondents feel out-of-their depths with AI and hesitant to trust the innovation, with lack of expertise and concerns for data accuracy and quality ranking among the top barriers to success for team implementing AI strategies. Cost also looms as a barrier.



Expertise & Knowledge



Cost & Budget Constraints



Data Accuracy & Quality

n=104

Reasons for Outsourcing

Respondents lack AI expertise and resources to execute their AI project and are looking for vendors to help them expedite their AI initiatives quickly.



Expertise & Knowledge



Speed in Expediting

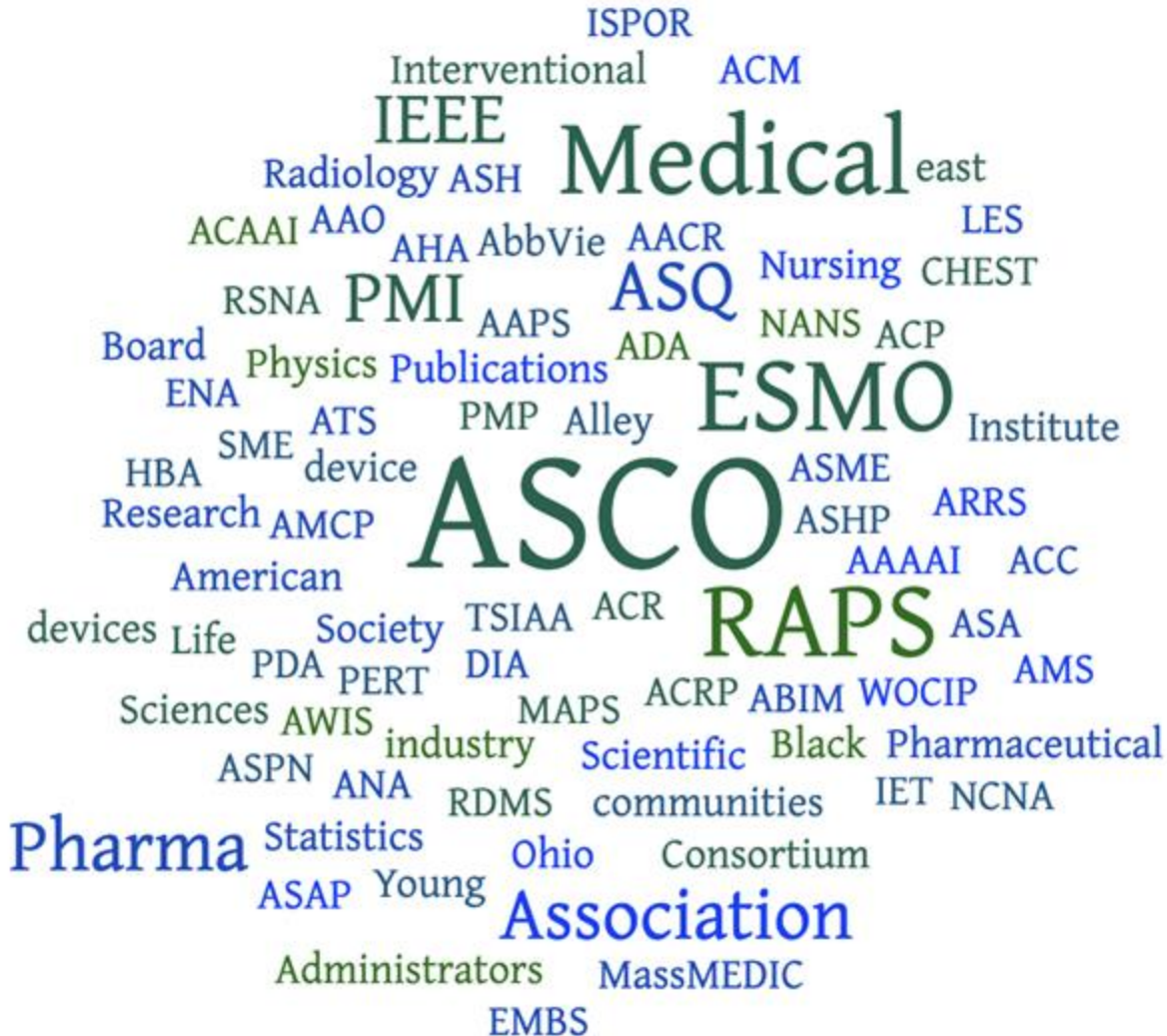


Resource Constraints

Professional Associations

Respondents belong to a variety of professional associations across therapeutic areas and life science specialties, among them:

- ASCO & ESMO (Oncology)
- ASH (Hematology)
- IEEE-EMBS (Biomedical & Health Informatics)
- ISPOR (Health Economics Outcomes Research)
- RAPS (Regulatory Affairs)
- ASQ (Quality)
- PMI (Pharma Management)



Q9. Please share any professional associations to which you belong.

n=92

To stay informed on industry topics, respondents seek information from journals, publications, professional associations (e.g., ISPOR), and industry websites (e.g., Fierce Pharma).



Journal Publications



Industry Associations



Industry Websites

Respondent Details

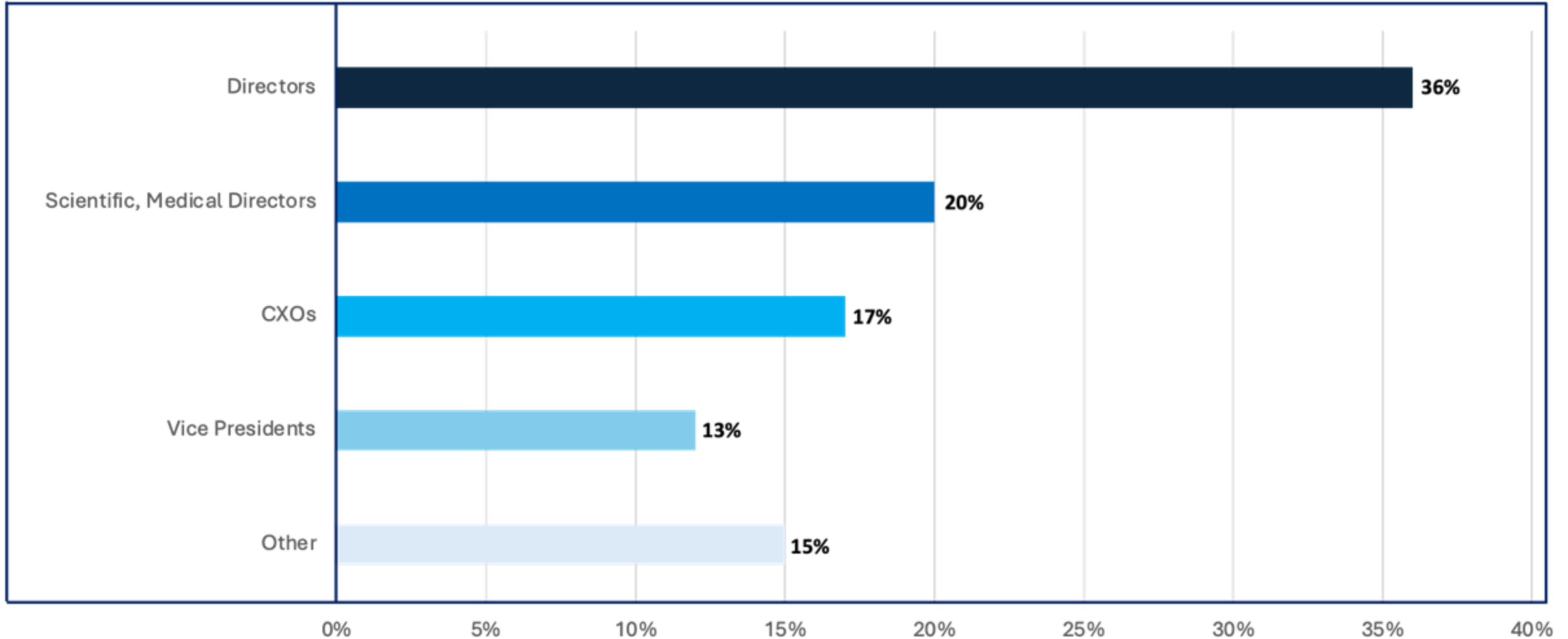
Respondent Profile

Survey respondents present the following characteristics:

- They primarily fall between 35 and 54 years in age
- A third are director level (including senior director), 20% were clinical (including medical directors), and nearly the same number were chiefs
- About two-thirds are men and a third women
- Forty-five percent report they have a PhD. or Medical Degree, and a further 32% have earned their masters
- On average, they've been in the life science industry 15 on average, with an average 13 years in their functional areas, and they typically spend seven years typically with their employers

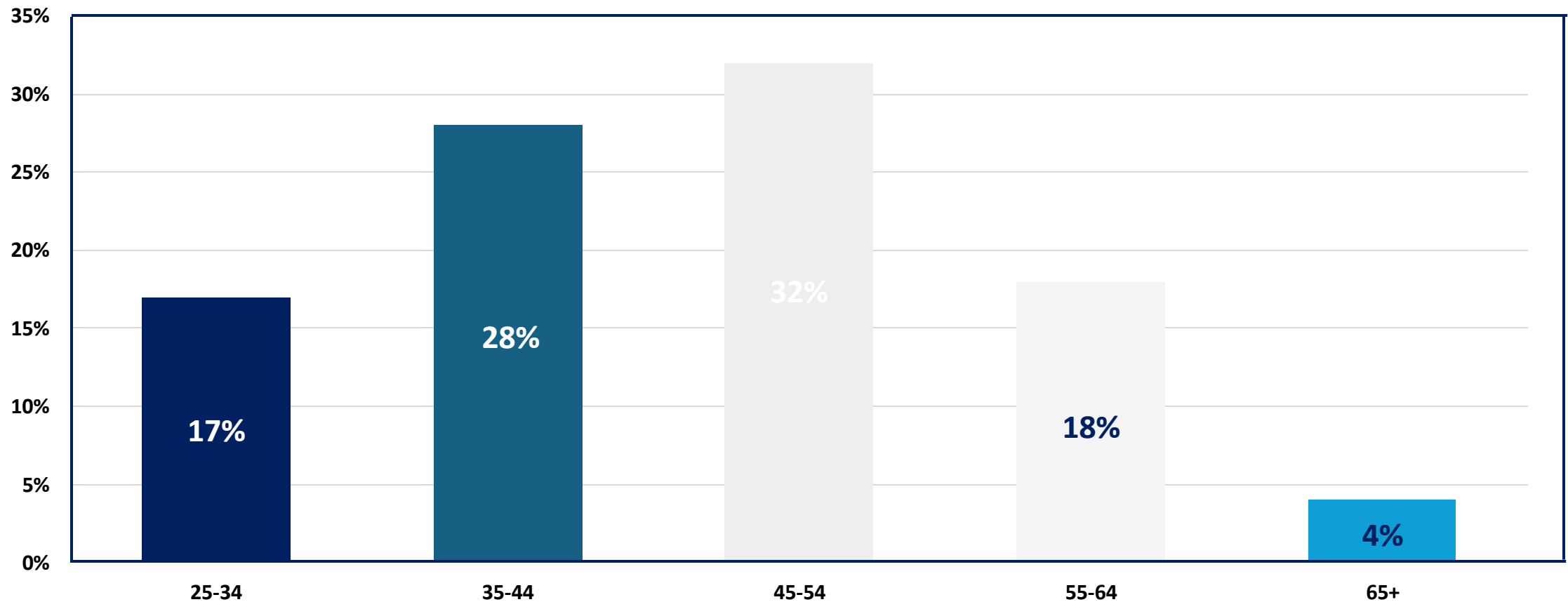
GenAI Titles

More than one-third of respondents are director or senior director level professionals. One-fifth are clinical leaders (including medical directors and scientists), with nearly the same number in CXO positions. VPs represent 13% of respondents, while 15% are from a variety of different areas including quality, operations, and business development.



Age

Respondents primarily range in age from 35 to 54 with about a fifth under 35 and over 54.

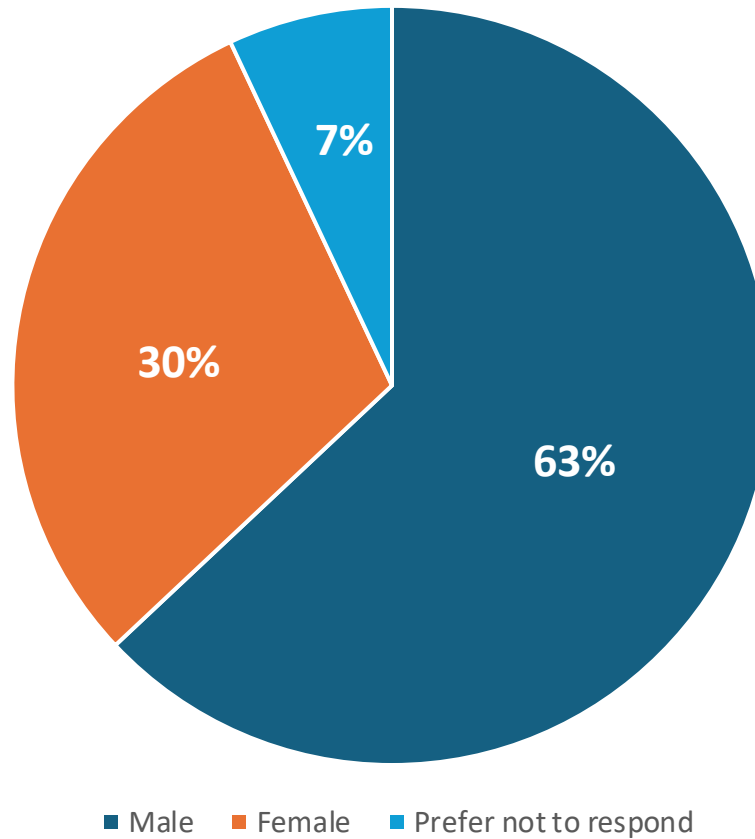


Q11. How old are you?

n=87

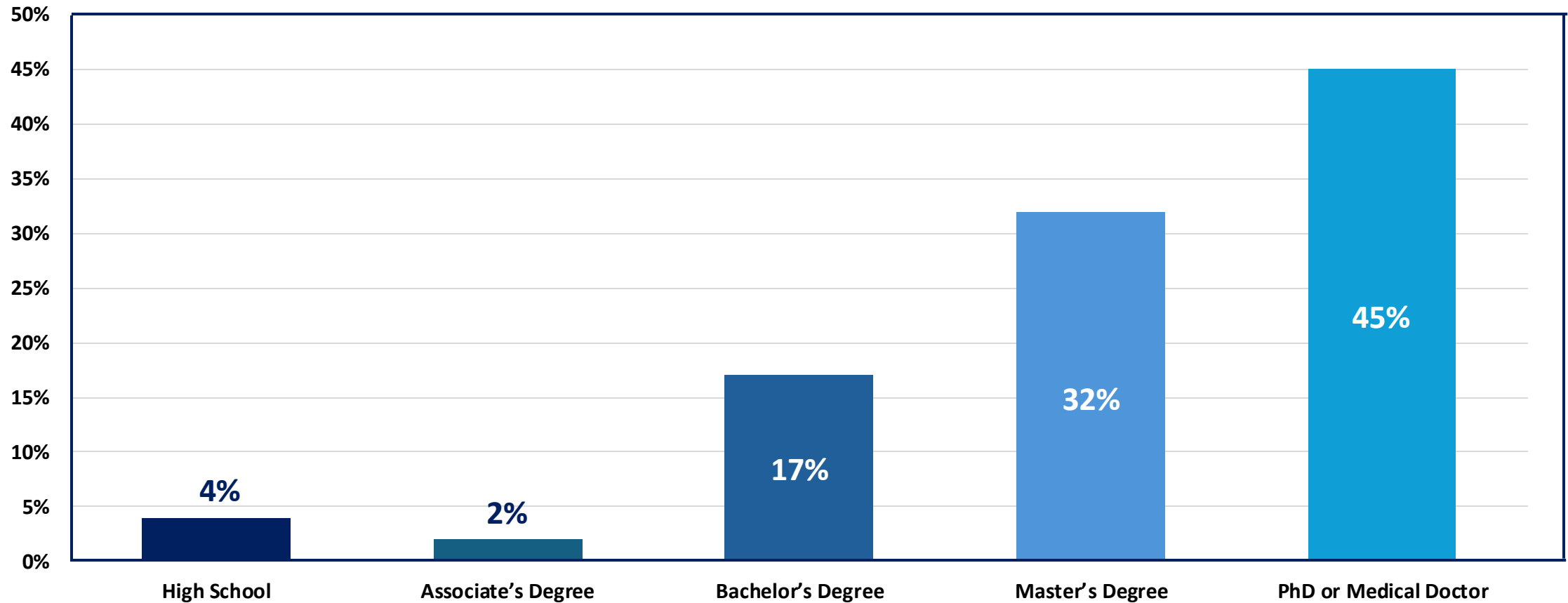
Gender Identification

About two-thirds of respondents identify as male, 30% female, and 7% prefer not to say.



Education Level

A highly-educated group, 77% of respondents have either a master's degree or PhD/MD, with a plurality of 45% earning the latter.

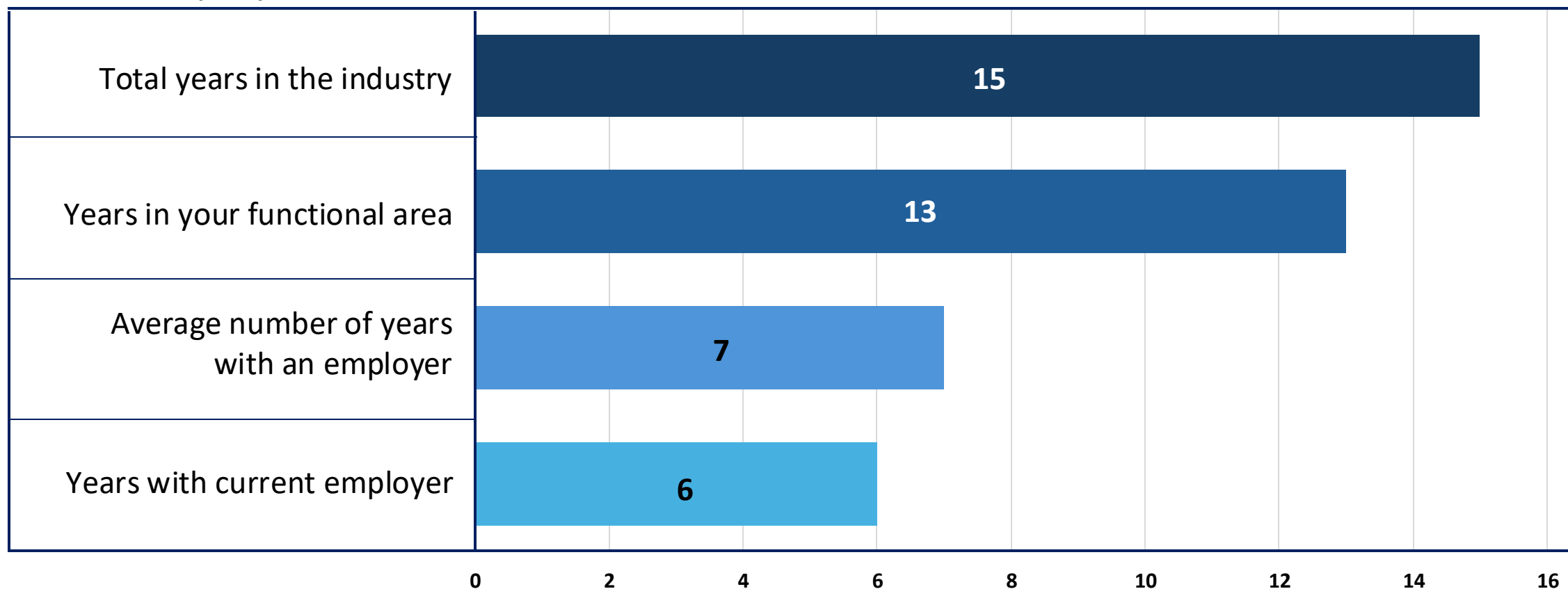


Q12. How old are you?

n=87

Professional Experience

Respondents have been in the life science industry 15 on average, with an average 13 years in their functional areas. Nesters, they spend seven years typically with their employers.



Q13: Please share your years and experience?

n=87



For more information, please contact:

Meghan Oates-Zalesky
Chief Marketing Officer for CapeStart
meghan.oates@capestart.com

Capestart.com