

# TECHNOLOGY ADOPTION IN CANADA'S MINERAL MINING INDUSTRY

## PRELIMINARY FINDINGS

**CRRF Presentation**

**Wednesday, November 16, 2022**

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# Survey Background and Overview

- Purpose: to explore the drivers and barriers to technology adoption in the Canadian mining industry
  - Literature Gap
- Survey launched at PDAC in June 2022, still open
  - CIM and MineConnect September Newsletters
- British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Quebec, Prince Edward Island, Newfoundland and Labrador, Nova Scotia, New Brunswick, the Yukon
  - Excluded: Nunavut and the Northwest Territories

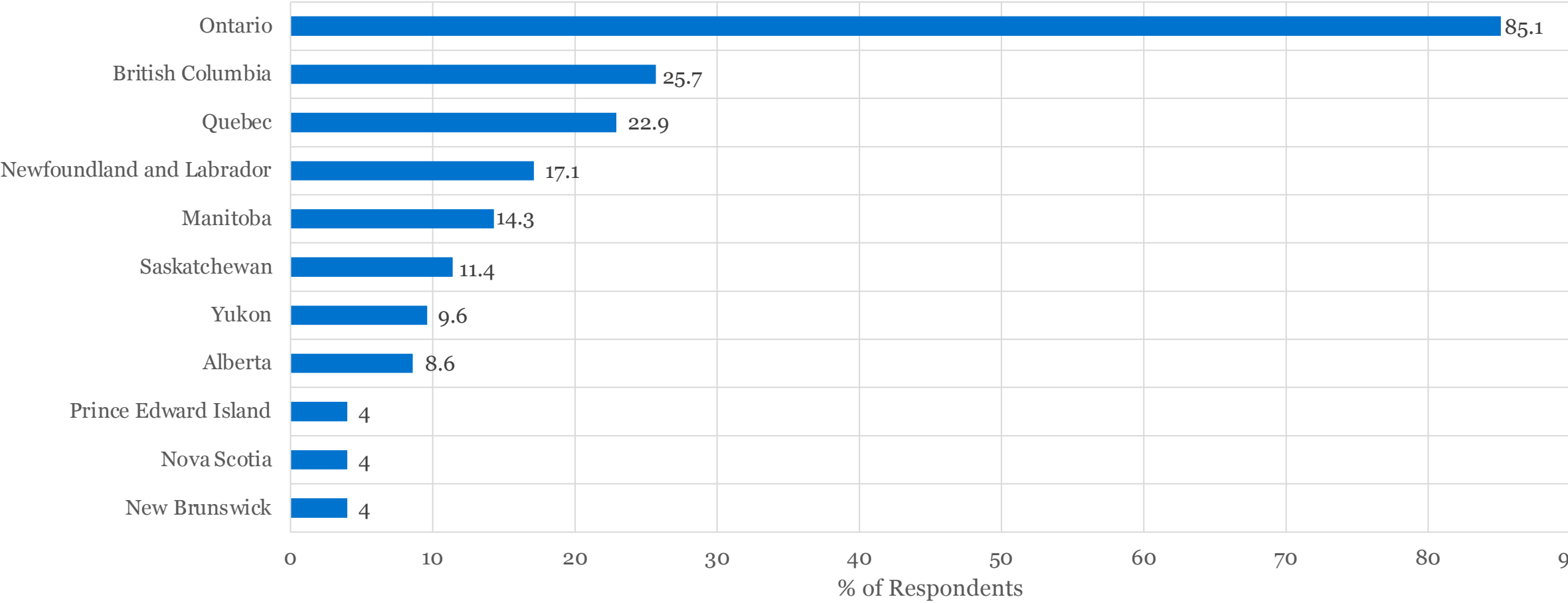


# Type of Organization

Organization type	Percent respondents
Mining company	38.2%
Mining supply and services company	26.5%
Non-profit mining industry organization	14.7%
Technology company	12.1%
Other (please describe)	9.1%

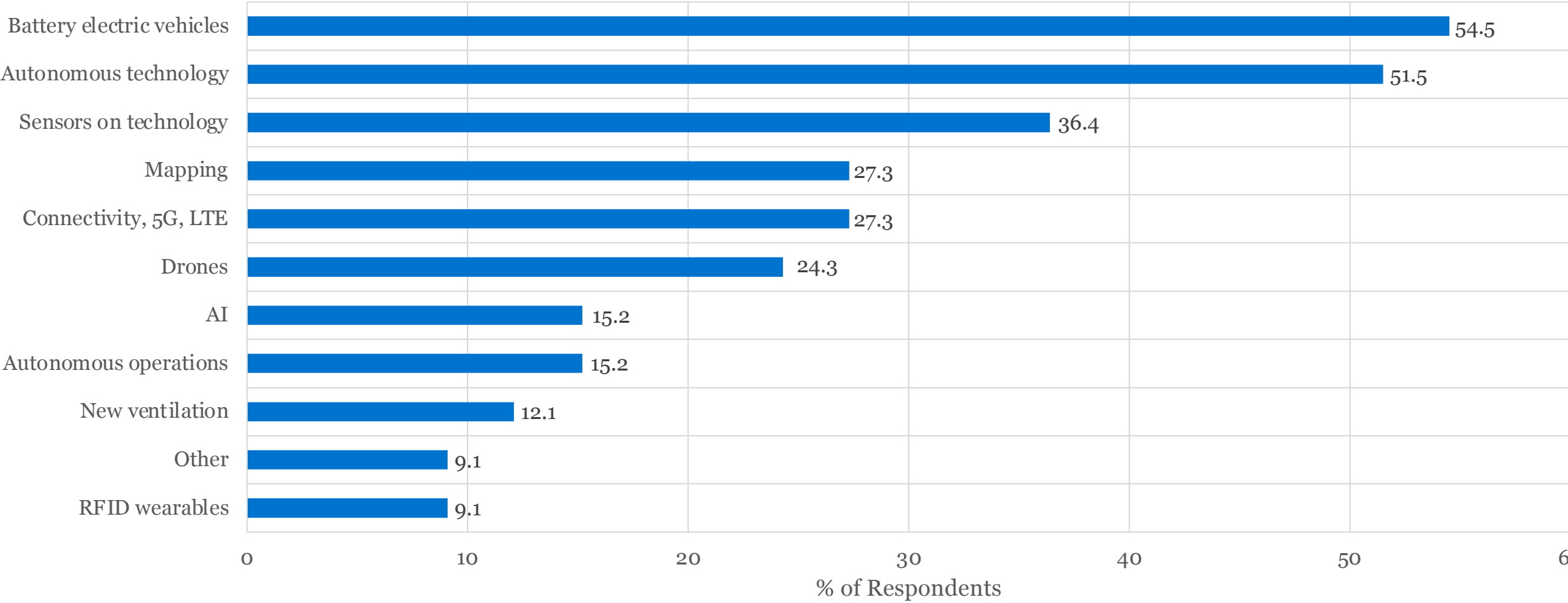


# Geographic Overview of Respondents



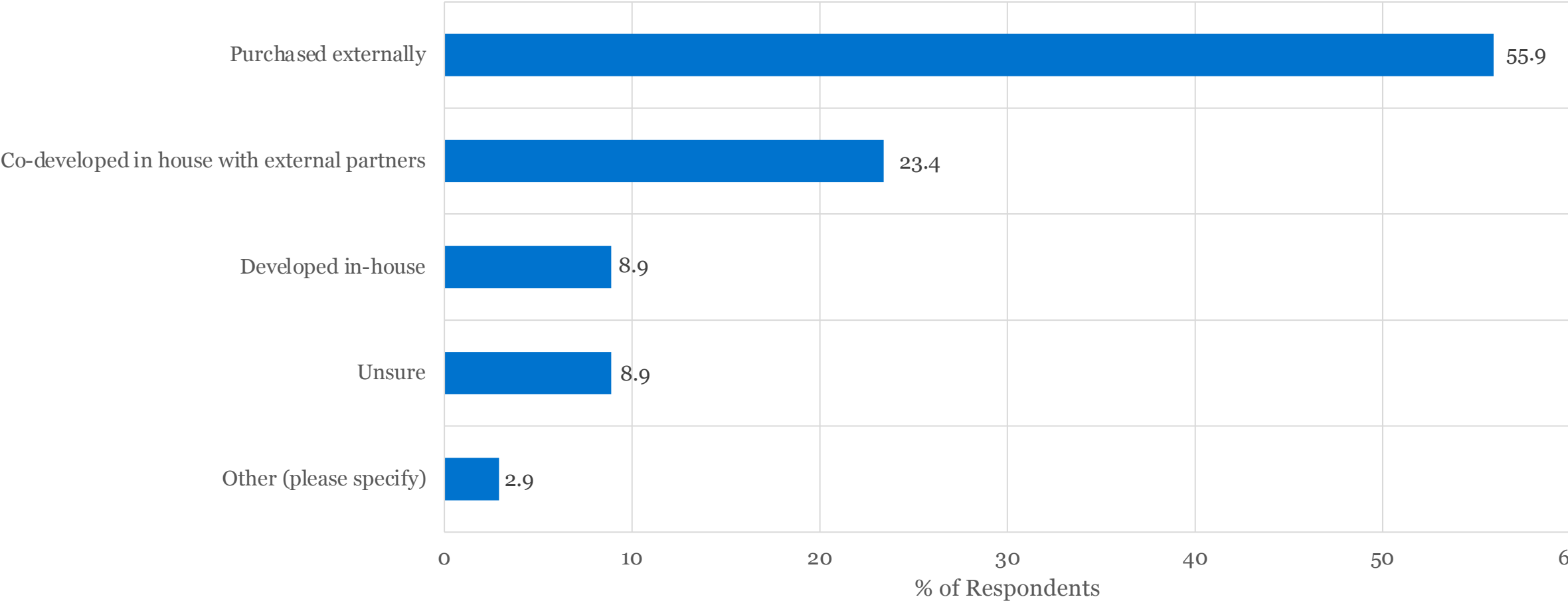
Note: Respondents could select more than one response

# Technologies Adopted in the Last 5 Years



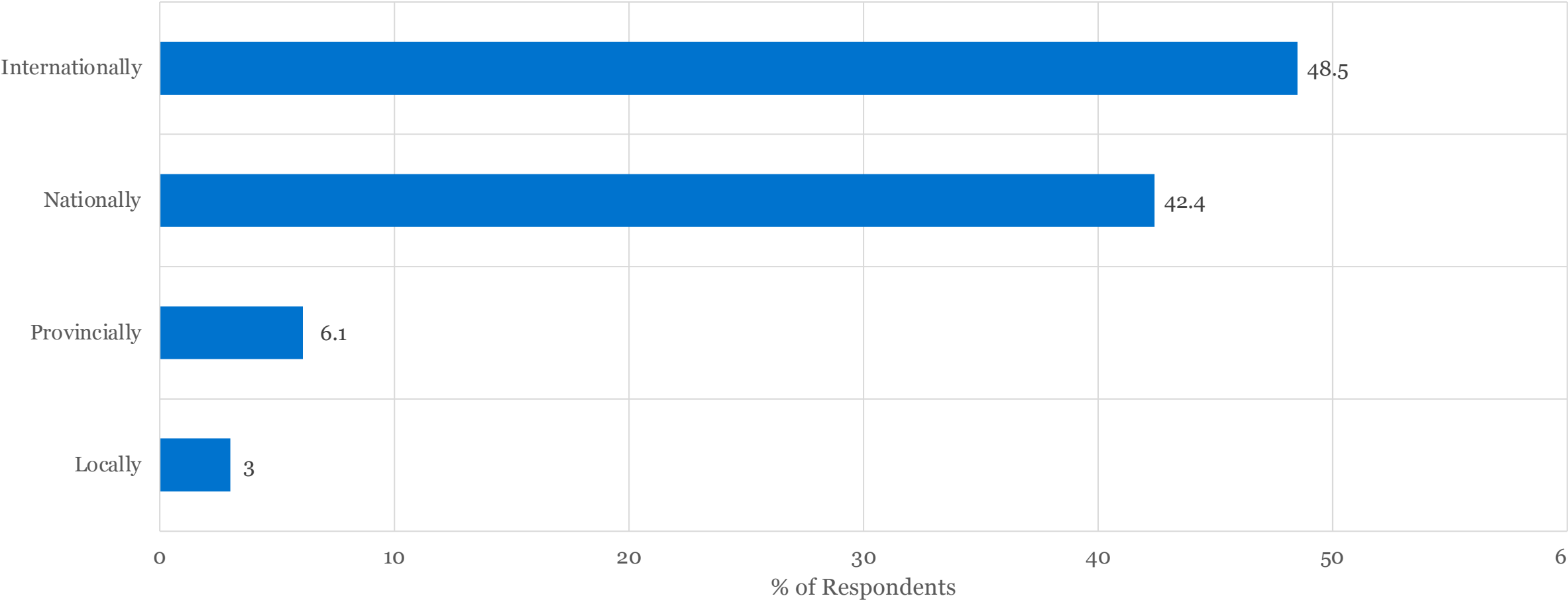
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# How Technologies are Acquired



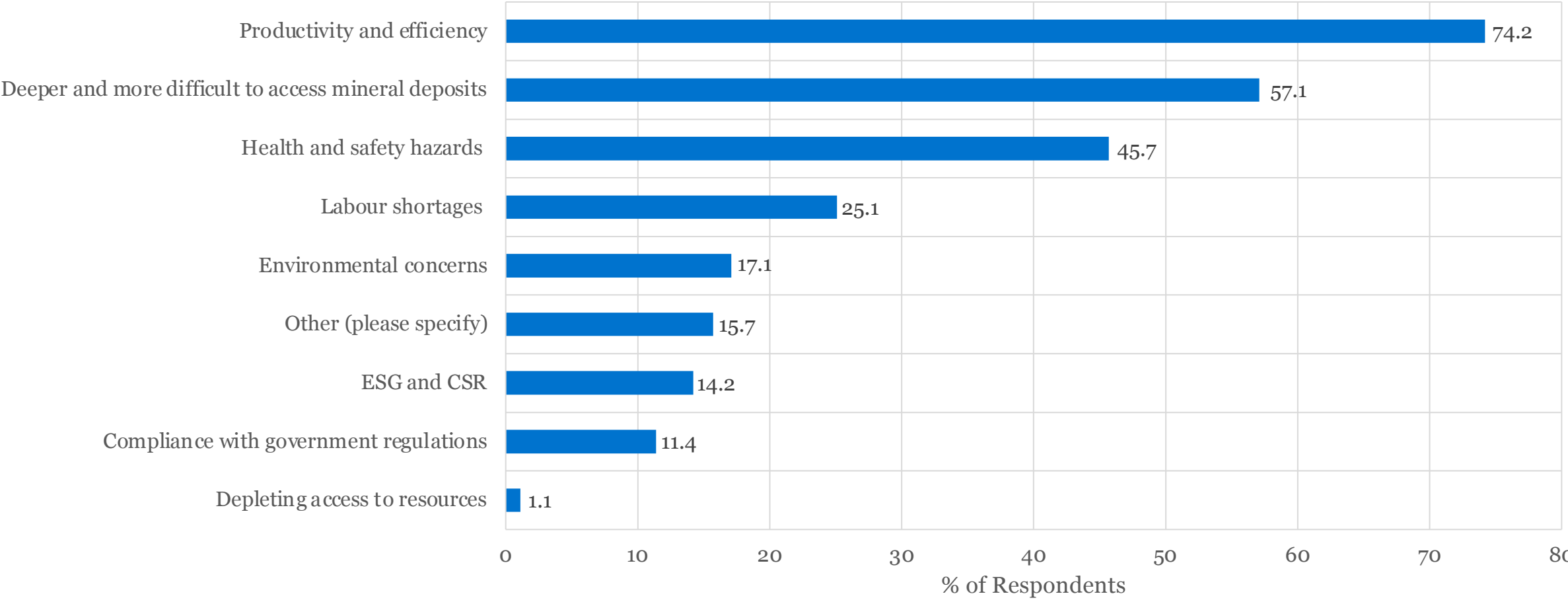
\*One respondent did not respond

# Where Technologies are Acquired



\*One respondent did not respond

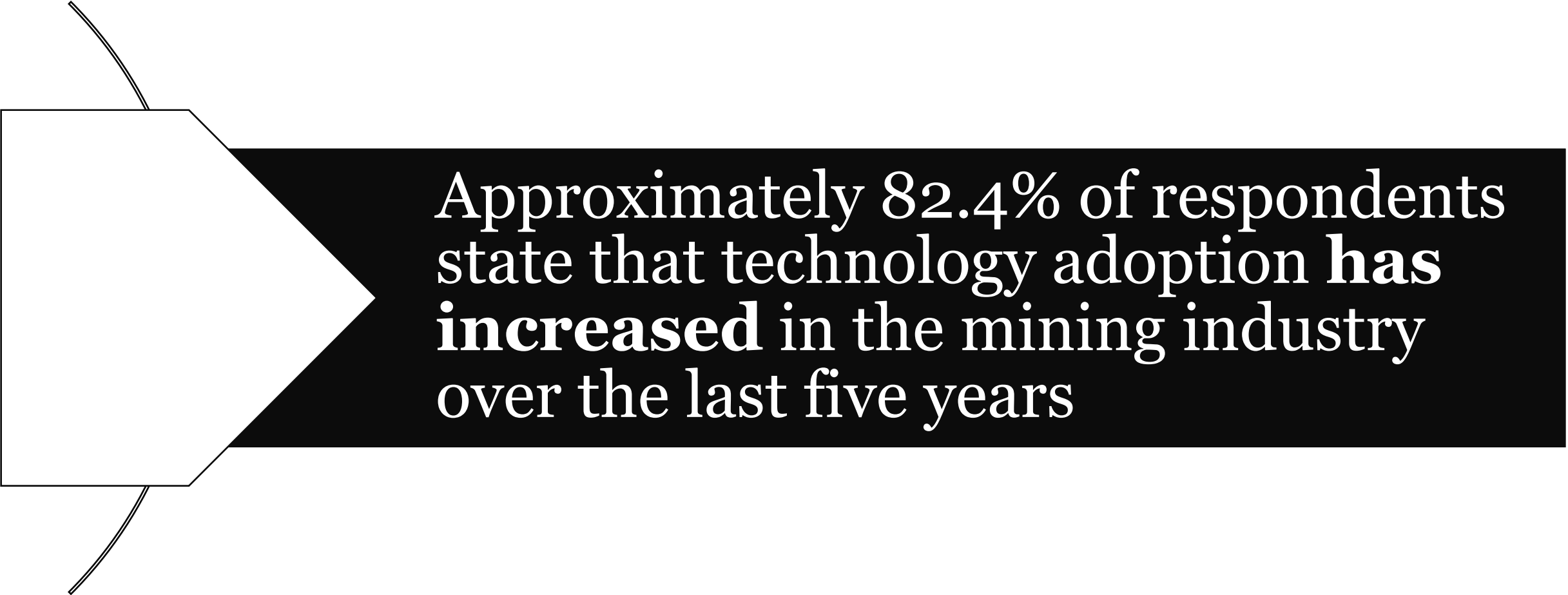
# Industry-Specific Drivers in the Decision to Adopt Technology



Note: Respondents could select more than one response



# The Rate of Technology Adoption

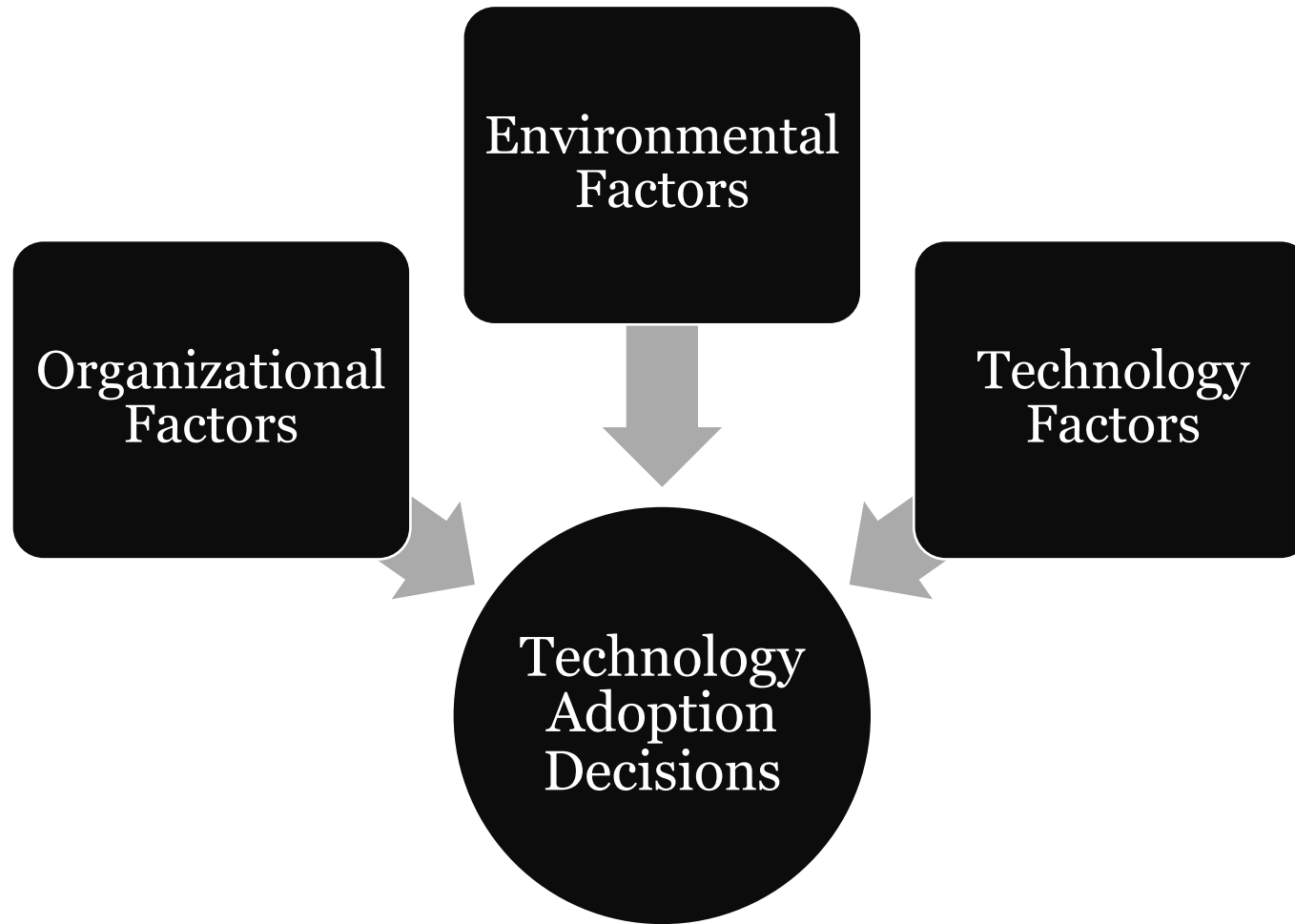


Approximately 82.4% of respondents state that technology adoption **has increased** in the mining industry over the last five years

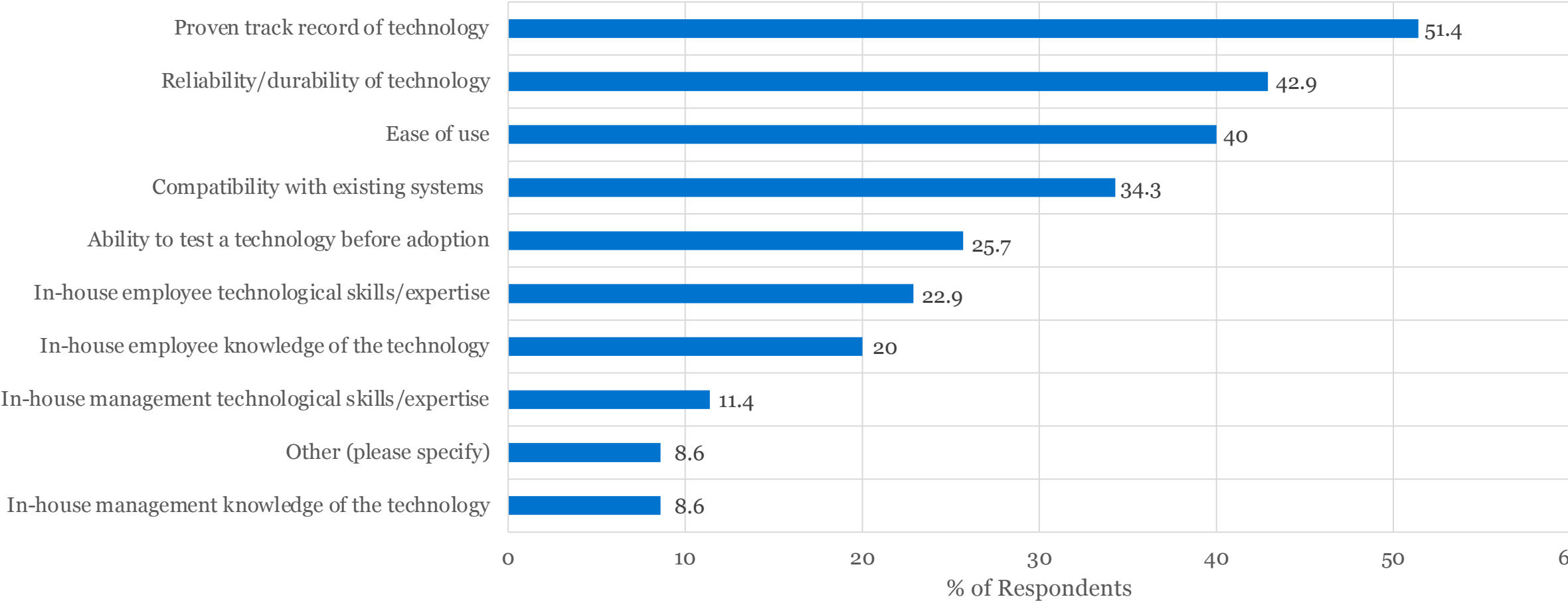


# **DRIVERS AND BARRIERS – TOE FRAMEWORK**

# TOE Framework

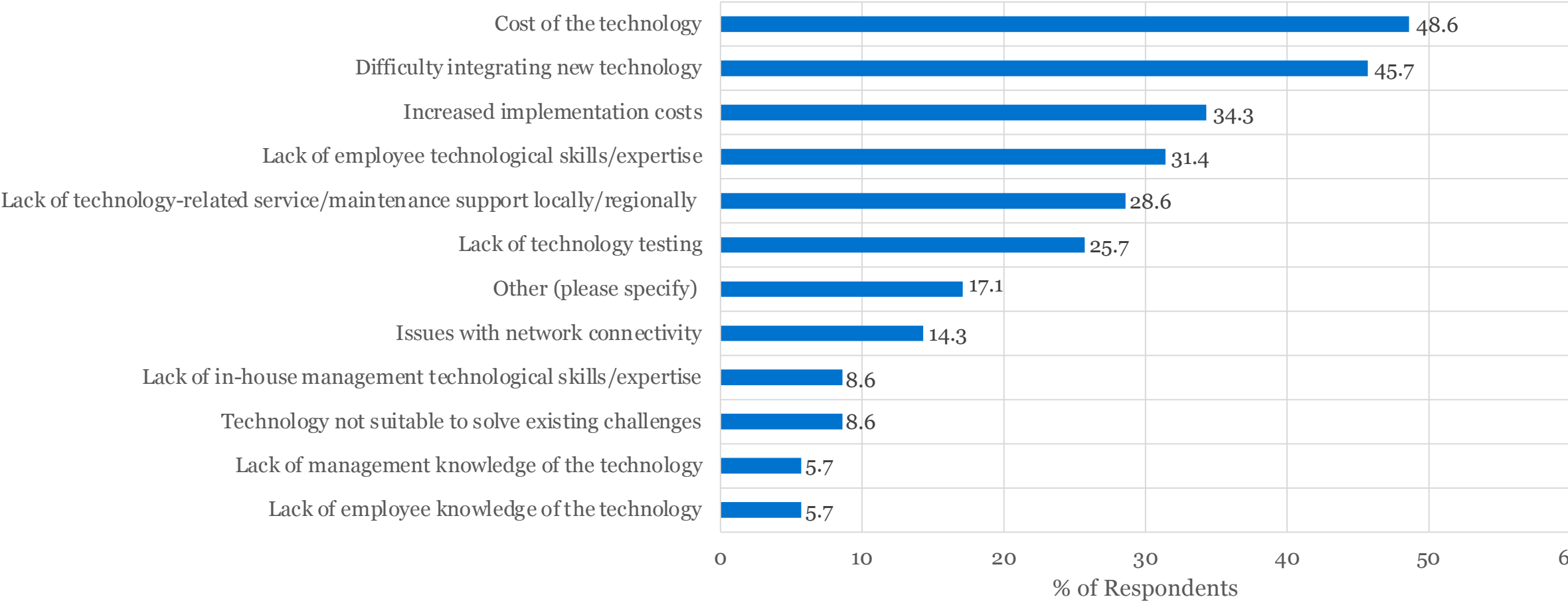


# Technology-Related Drivers



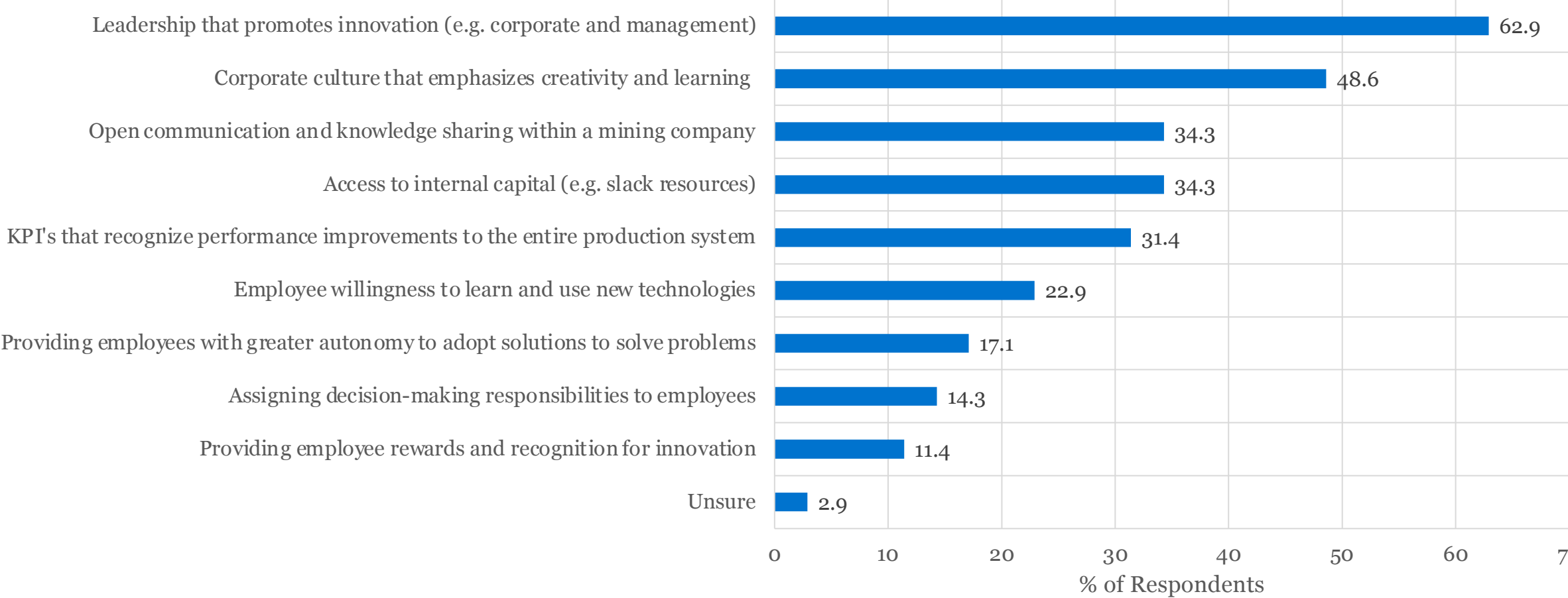
Note: Respondents could select more than one response

# Technology-Related Barriers



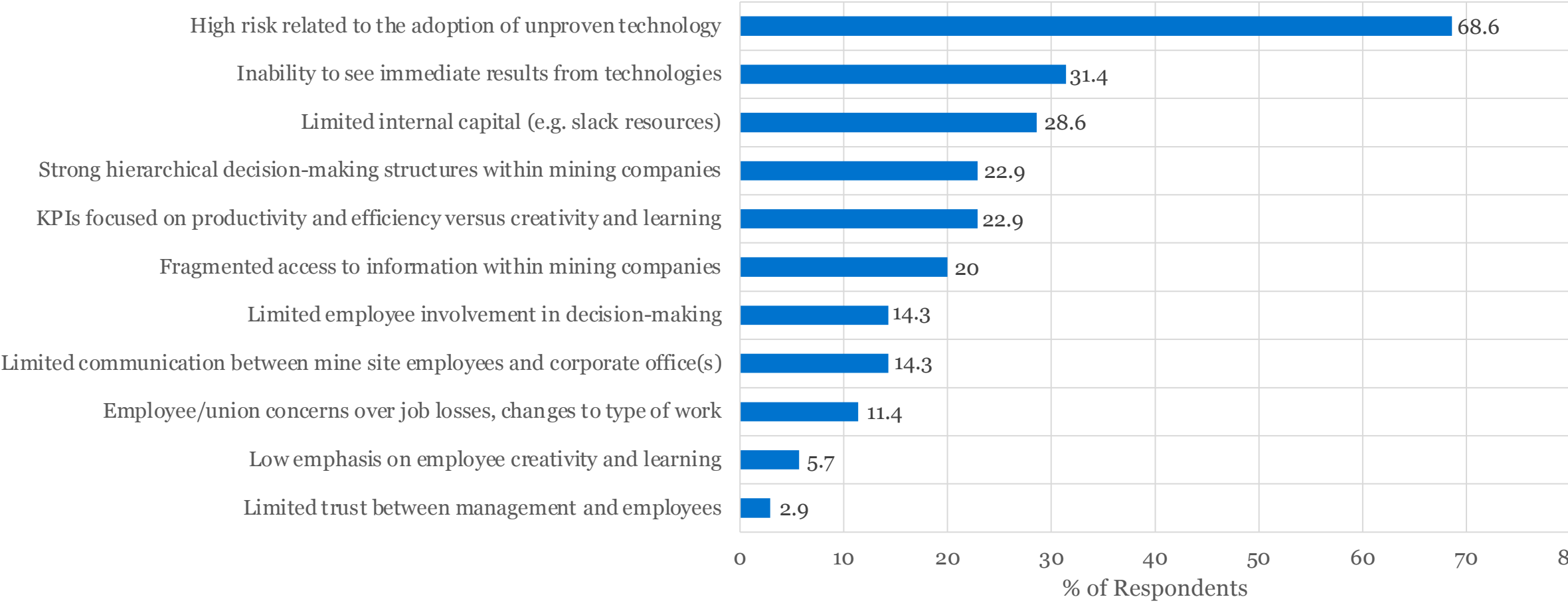
Note: Respondents could select more than one response

# Organization-Related Drivers



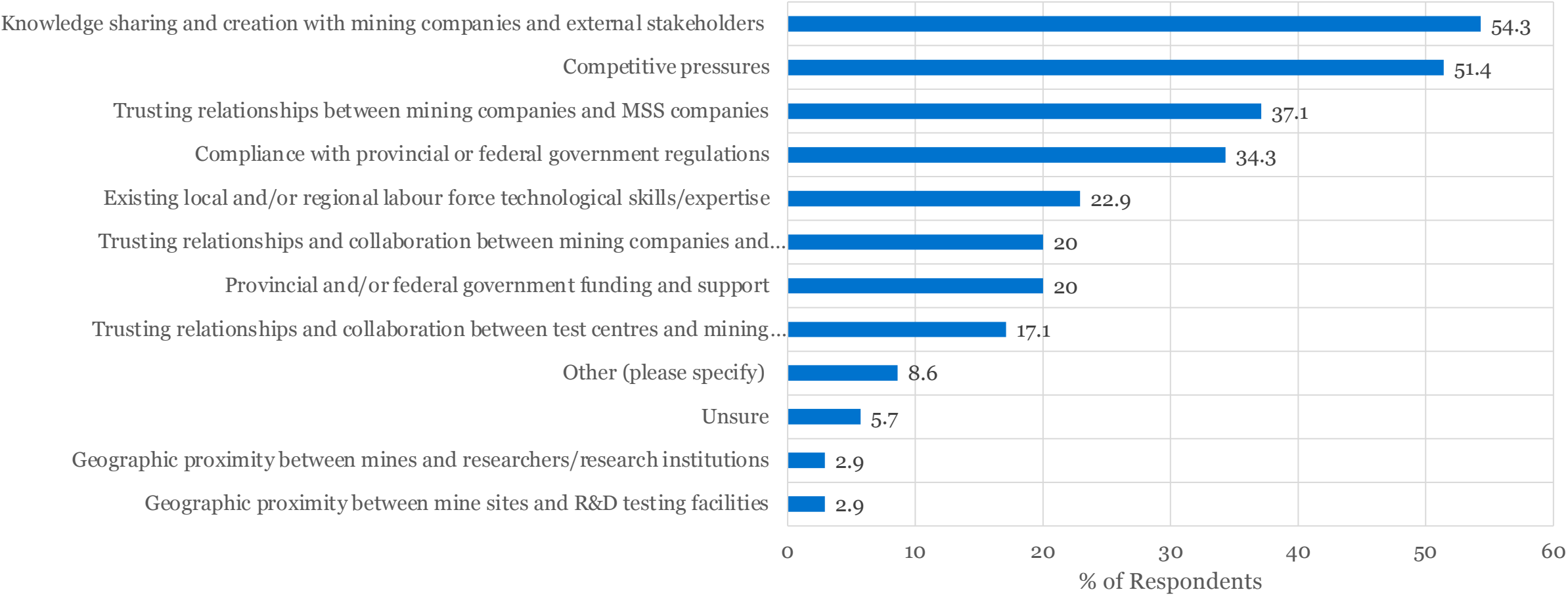
Note: Respondents could select more than one response

# Organization-Related Barriers



Note: Respondents could select more than one response

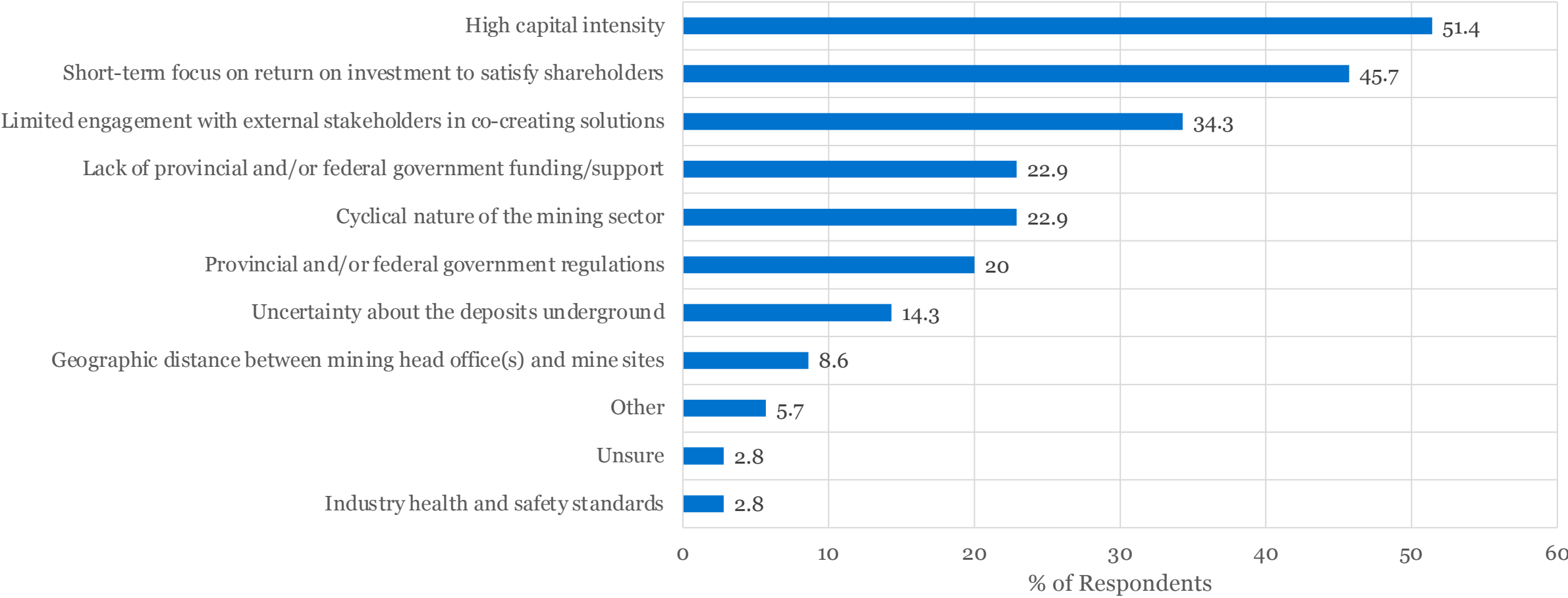
# Environmental Drivers



Note: Respondents could select more than one response



# Environmental Barriers



Note: Respondents could select more than one response

# Next Steps

- Close the survey at the end of November 2022
- Further analysis on the data

# Thank you

- Remote Controlled Research Team
- Funding
  - Ontario Graduate Scholarship (OGS) Program
  - President's Graduate Scholarship (PGS), University of Waterloo
  - Social Sciences and Humanities Research Council (SSHRC)

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Questions?

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