

Digital Transformation in Construction Sector

2025 Annual Survey Report
(3rd Edition)

Prepared by Roboautal Pte Ltd



Introduction to the Survey

Despite the growing awareness of the importance of data management and emerging digital technologies, many SMEs and industries such as construction still lag in adoption. This is for reasons that are multi-fold, ranging from low margins to a lack of long-term focus and risk aversion.

But what is the reality of digital transformation in today's construction sector? What are the challenges they may be facing?

What are the opportunities being allowed? What are the pain points in technology adoption? Is it still same previous years or there are clear trends emerging.

Since 2023, Roboautal has been carrying out annual surveys to unlock some answers of some of these questions.



Survey Background and Objectives

The data collected from professionals across different levels of management who were either involved in implementing technology or a business stakeholder in construction sector.

The following results are based on 125+ individuals' responses.

The survey aimed to gain insights and measure the present status of digital transformation with commissioned findings.

These include their ongoing initiatives, future strategies, leadership perspectives expressed, challenges encountered, and the involvement of construction partners.

Executive Summary



Rise in technology maturity:
40% rated adoption as 'Very
Advanced'.



AI emerges as a transformative
force: 50% rated it highly
impactful.

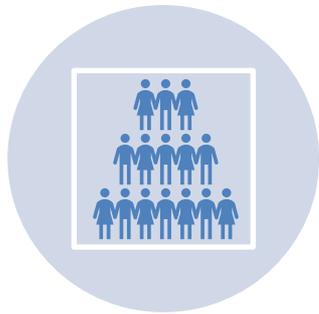


Customized digital tools
preferred over off-the-shelf
ERP systems.

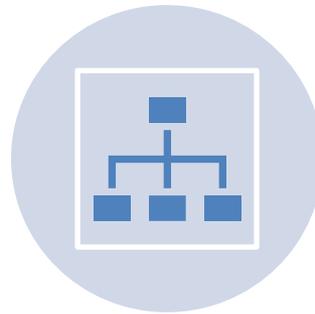


Growing confidence in
leadership and skill readiness.

Respondent Demographics (Over 125)



DIVERSE REPRESENTATION:
CORPORATES, SMES, LARGE
ENTERPRISES.



ROLES: GENERAL
MANAGEMENT, SITE OPS,
COMMERCIAL, DIGITAL LEADS.



BALANCED MIX FROM
SINGAPORE (40%) AND
INTERNATIONAL FIRMS (60%).

Technology Adoption Trends



2025: 40% of organizations rate their adoption as 'Very Advanced'.



Top-down leadership and pilot projects common strategies.



AI, BIM, IoT and Analytics among the most adopted technologies.

Benefits Observed



ENHANCED
PRODUCTIVITY TRACKING
AND PLANNING VISIBILITY.

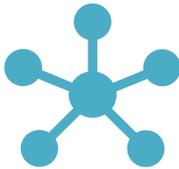


INCREASED REAL-TIME
SITE PROGRESS
REPORTING AND
RESOURCING.



DATA ANALYTICS USAGE
SURGING ACROSS ALL
FUNCTIONS.

Challenges in Adoption



High initial cost and integration complexity.



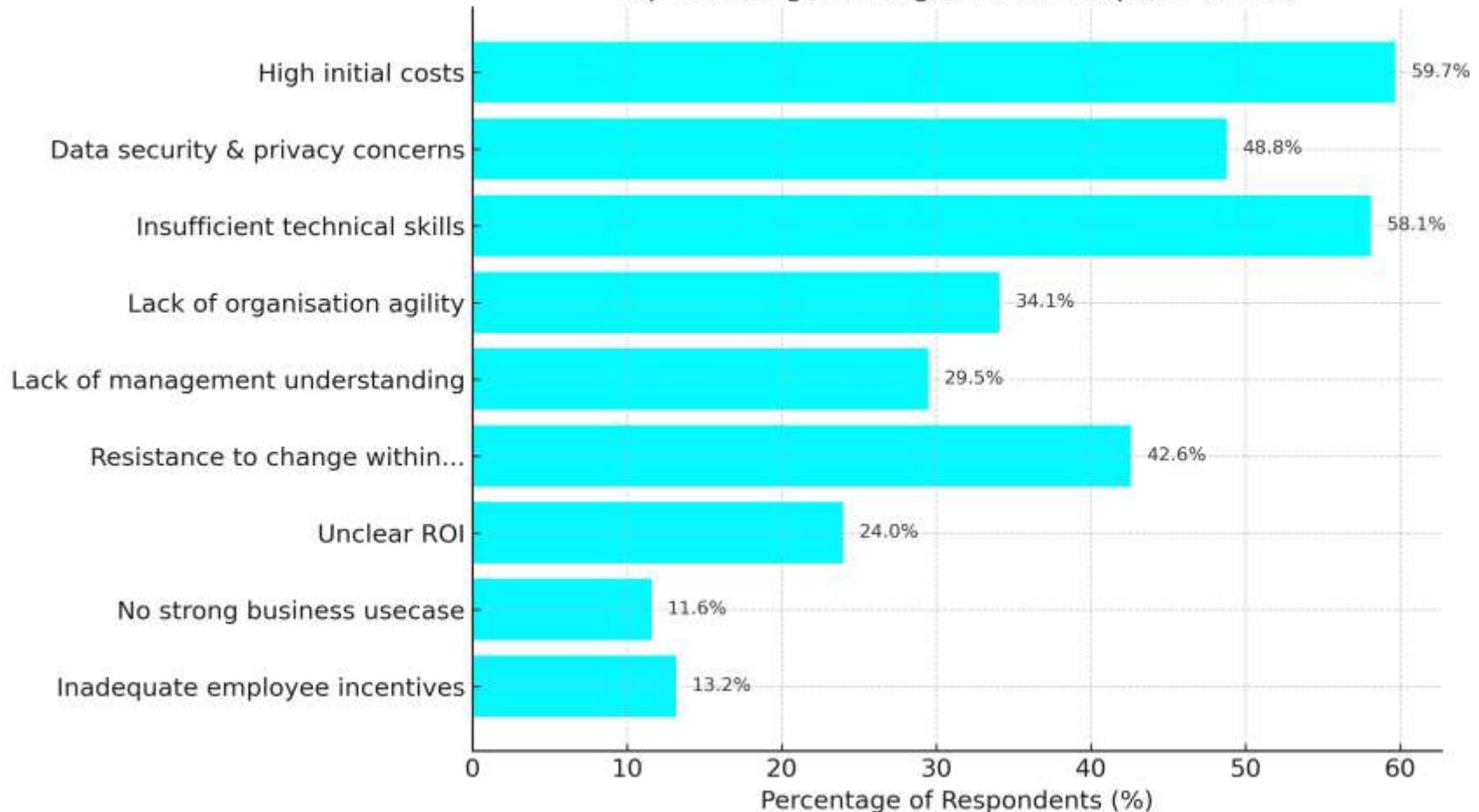
Technical skill gaps still persist across teams.



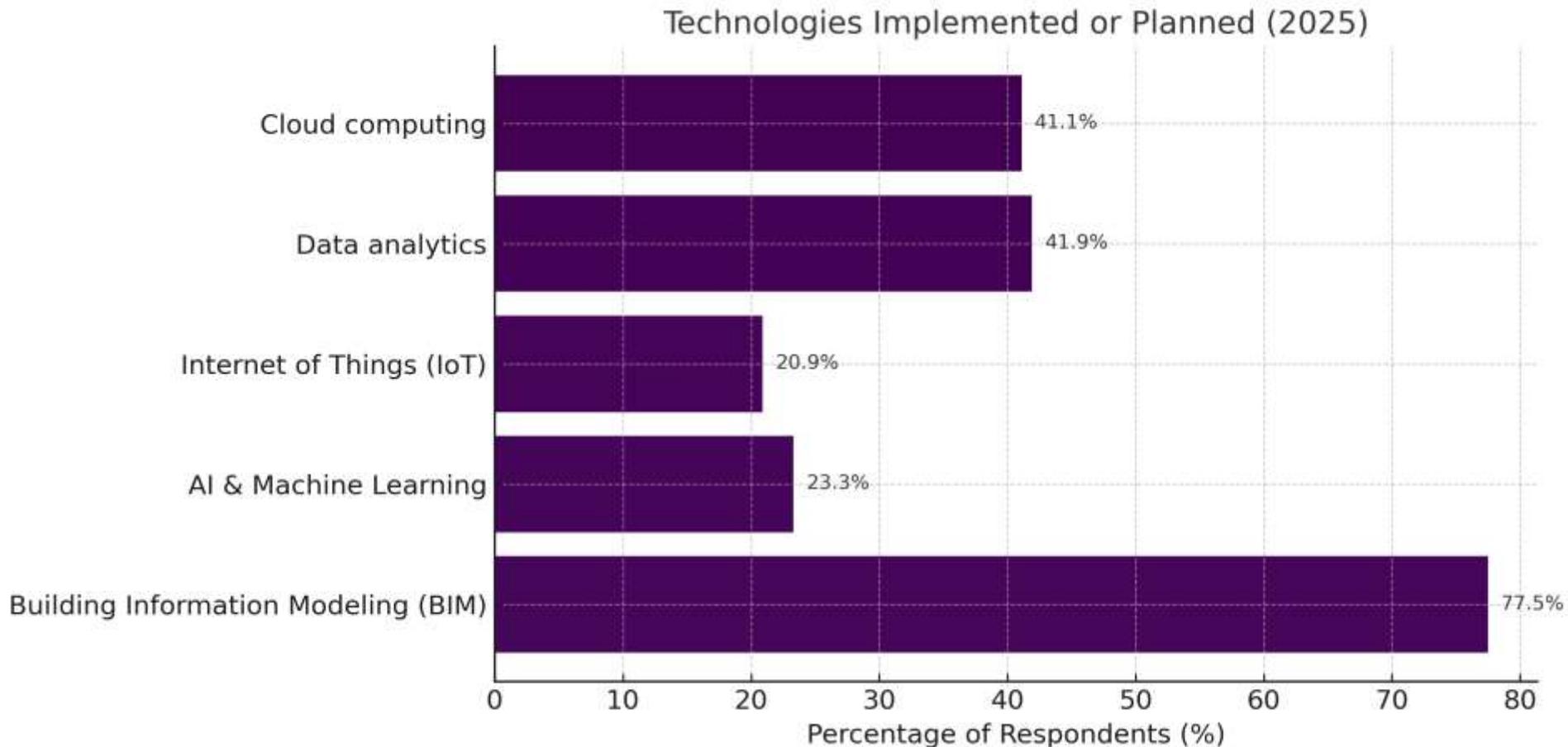
Security and privacy remain critical concerns.

Top Digital Transformation Challenges – 2025

Top Challenges in Digital Tech Adoption (2025)



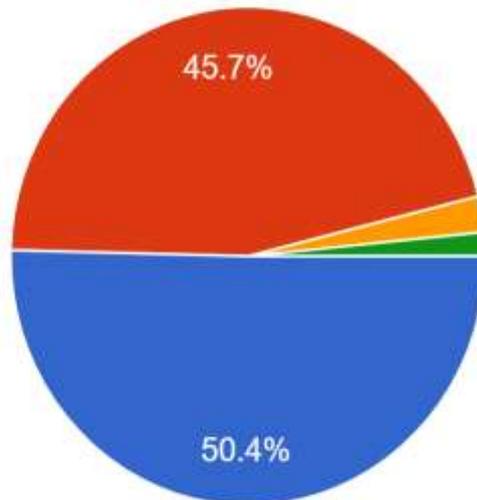
Digital Technologies Adopted or Planned – 2025



AI Outlook – 2025

How do you perceive the impact of Artificial Intelligence (AI) on the future of the construction sector?

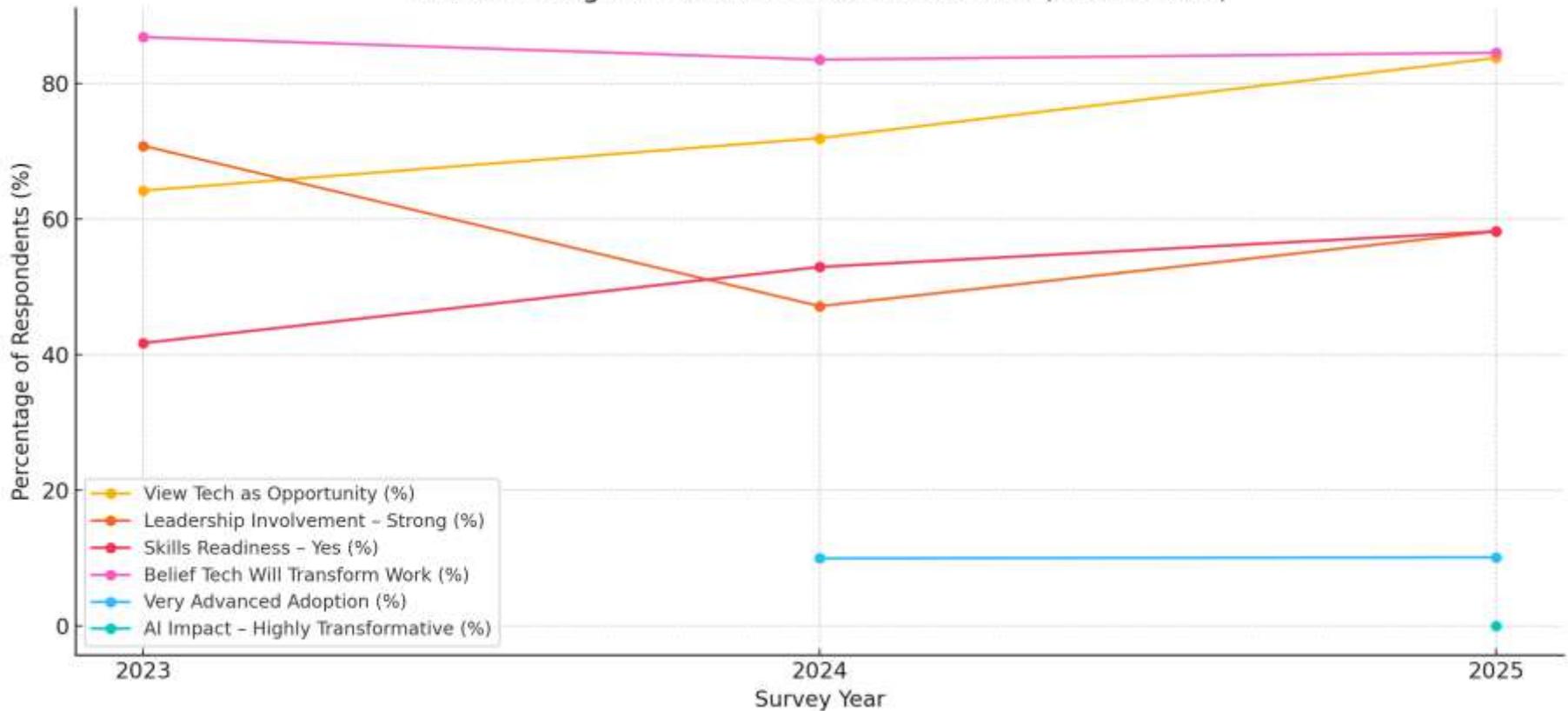
129 responses



- Highly impactful – AI will significantly transform how we operate in the construction sector.
- Moderately impactful – AI will bring improvements but won't drastically change the industry.
- Not impactful – I don't believe AI will have a major impact on the construction sector.
- Unsure – I am not sure about the role of AI in the future of construction.

Comparative Trends (2023–2025)

Trends in Digital Transformation Indicators (2023–2025)



Outlook for 2026

- Confidence in organizational readiness improved with **60%** feel their firm is **highly effective** in leveraging tech compared to competitors, versus 48% in 2024.
- More than 50% believe AI will significantly transform the industry. This percentage is likely to rise.
- Customized, in-house solutions is likely to continue gaining favor.
- More firms would be experimenting building internal digital teams and cross-functional innovation squads.
- Use cases: Safety, predictive maintenance, automation, data streamlining and real time reporting.



Thank you

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- Thank you to all for the participation in our 2025 survey. Your valuable inputs have been essential in shaping our understanding of the digital transformation trends in the construction sector.
 - We sincerely appreciate the time and support extended.
 - We look forward to your continued participation in 2026 survey too.

About Roboautal

- Roboautal was founded in 2022 with a bold mission to accelerate transformation of construction sector (especially SME contractors) by harnessing the power of digital technology. Our goal is to bridge the digital gap and revolutionize existing skill sets and business processes thereby empowering construction firms of all sizes to achieve more.
- In 2025, we continue our journey, leveraging our experience and knowledge to help clients with implementation of digital technologies.
- Let's collaborate on this exciting learning journey towards a brighter and more innovative future in construction sector for all firms.