



# Generative AI and the future of education

How higher education institutions, their employees and students are using AI to drive success.





# Contents

## **03** Introduction

### Student perspective

## **05** Pros and cons – How students use generative AI

## **07** Getting ahead of the generative AI learning curve – the opportunities

## **08** Understanding AI risks

## **09** How can higher education institutions help and train students to use AI effectively?

### Employee perspective

## **12** How employees use generative AI

## **15** The future of learning incorporates generative AI

### Learn more

## **17** How can KPMG help

## **18** Research methodologies

# Introduction - Generative AI is transforming education

AI-powered productivity and creativity tools have been publicly available for about two years. In that short time, they've made major inroads into how people work – including how they learn. The way higher educational institutions navigate the rise of AI will determine how they're able to support success of students and educators down the road.

**In August 2024, KPMG Canada conducted a poll** to gain insight into usage and adoption of generative AI among Canadian adults aged 18 and older. The following reflects how 423 student respondents use generative AI today and plan to use into the future.

**When thinking about the usage of generative AI in a higher education setting, three applications stand out:**

01

## Enhancement of student experience

Enabling students to leverage the power of data and technology while continuing to enhance their critical thinking skills.

02

## Application of AI in administrative processes

Driving productivity and cost efficiency through the usage of AI.

03

## Application of AI commercially

Institutions hold a significant amount of data and research. In partnership with other organizations, models can be created to use the research and insights to contribute to society.



# Student perspective



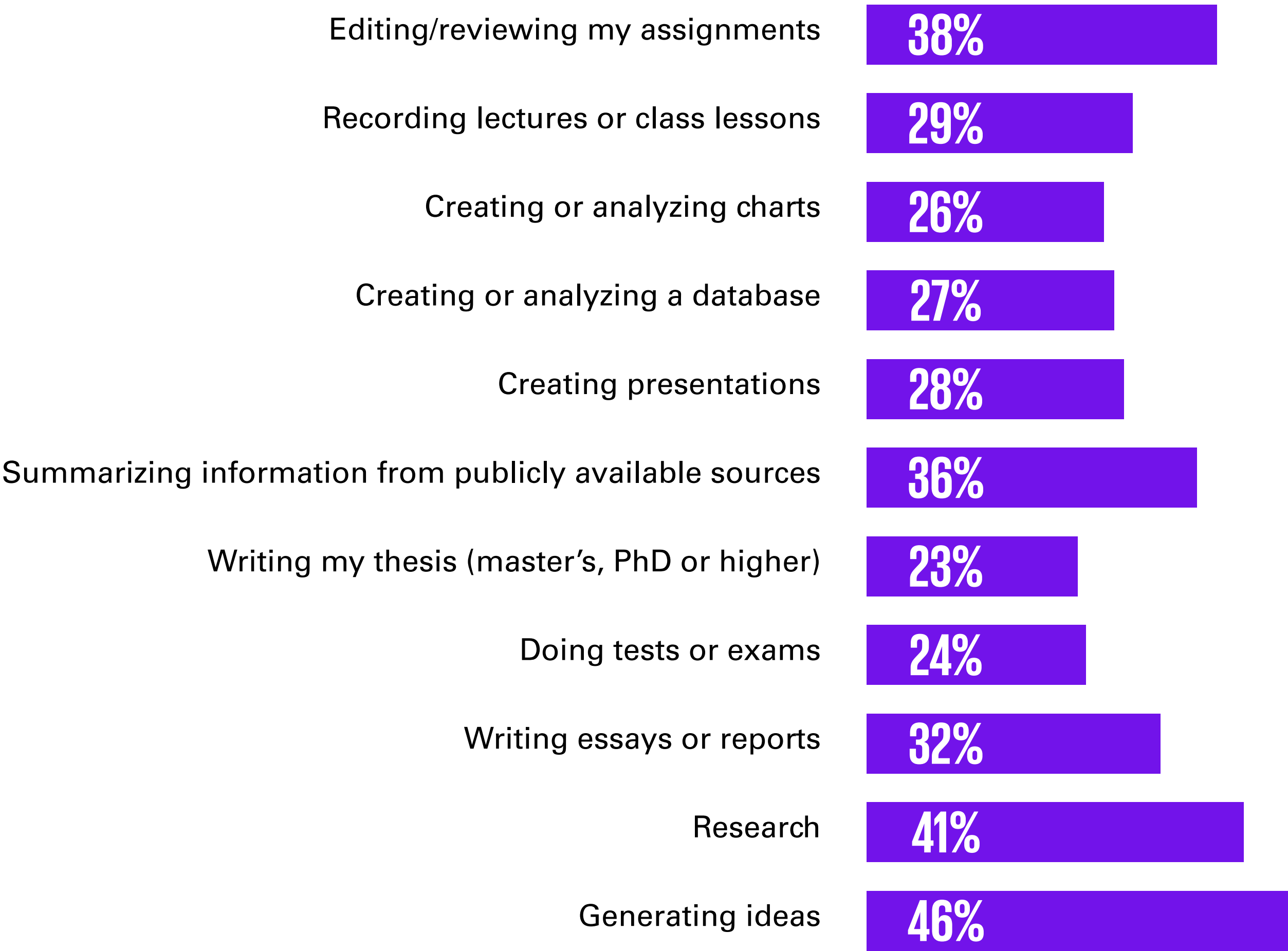


# Pros and cons: How students use generative AI

For educational institutions, generative AI presents both advantages and opportunities. This technology produces natural-sounding text from well-phrased prompts. We learned from our student poll that 59 per cent of students are using it in their coursework, up from 53 per cent last year. They are using it to brainstorm ideas (46 per cent), do research (41 per cent), summarize information (36 per cent), and write assignments (32 per cent).

## What **benefits** are students gaining from generative AI?

From our poll, students identified a few benefits of AI such as: saving time (68 per cent save between 1 and 5 hours per week) and getting better grades (74 per cent). 75 per cent say it has helped improve the quality of their coursework and 79 per cent feel the tool boosts their creativity and clarifies complex readings and issues.





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## Higher education institutions are now at a pivotal juncture towards shaping how their students interact with generative AI.

Embracing the usage of generative AI and training students to harness its power responsibly and intentionally - is the clear path forward. While many higher education institutions have established governance policies, having the right framework in place will be essential to accelerating the adoption and delivery of AI-enhanced student journeys.

### CJ James

Partner  
National Industry Leader, Education  
KPMG in Canada

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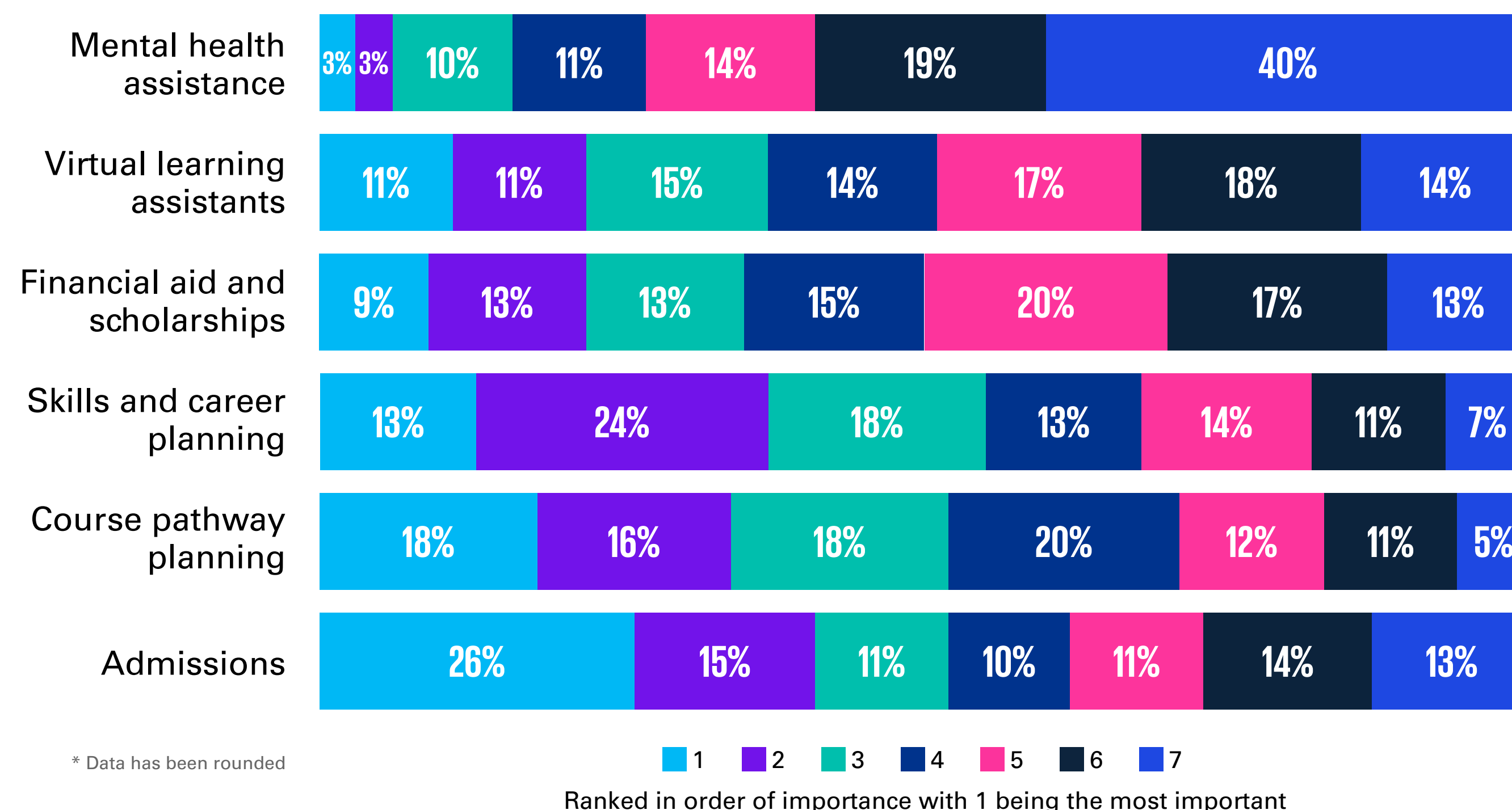


# Getting ahead of the generative AI learning curve – where the opportunities are:

The usefulness of generative AI outweighs the drawbacks for many students. They recognize AI's growing importance and see its use skyrocketing in other settings and its applicability for their career track. As a result, they are eager to have responsible and skilled AI use become part of their own training and educational programs.

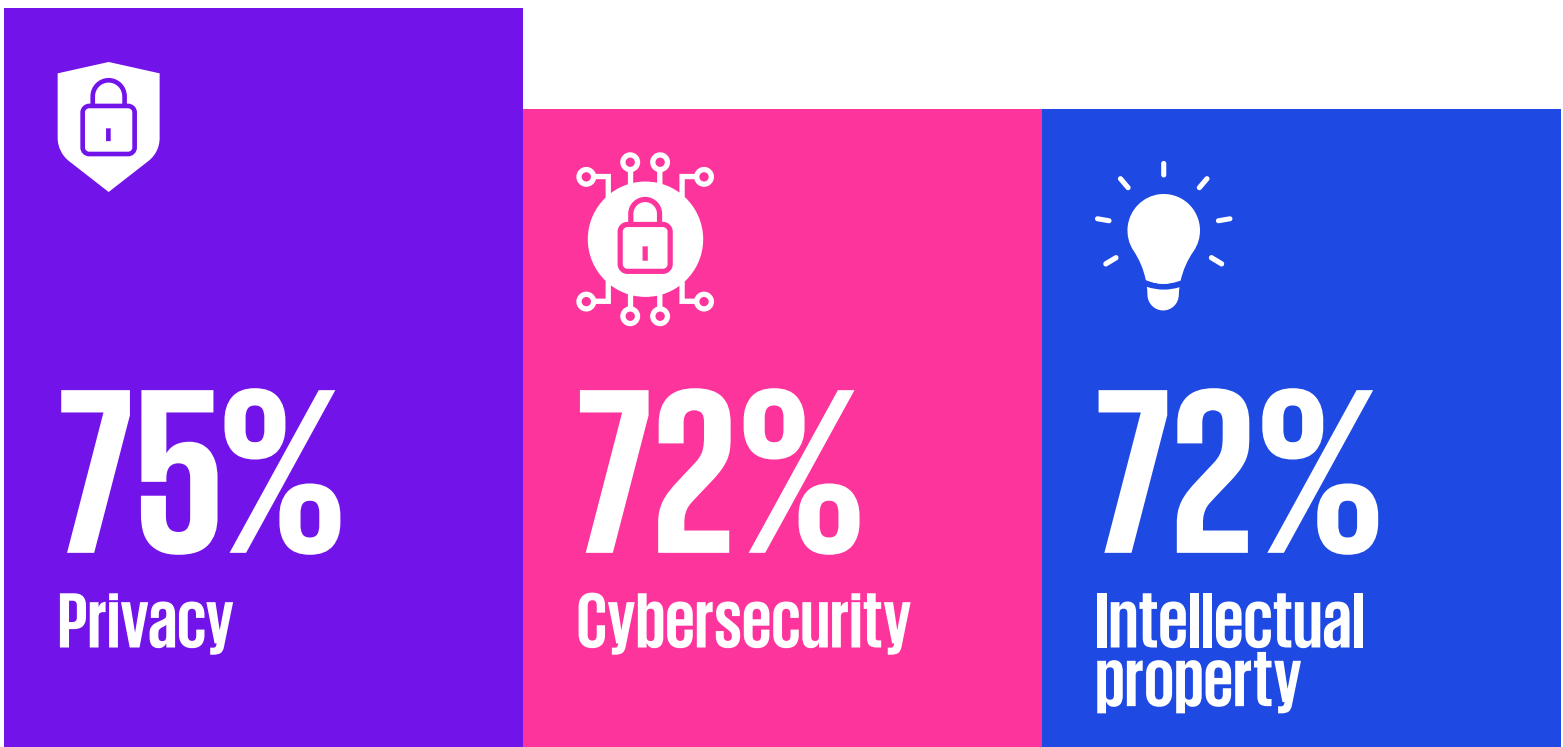
Students plan to use generative AI to prepare for further education and for their future workplace. Respondents wanted to see more generative AI activity at their institutions in these areas:

- Skills and career planning (55 per cent)
- Admissions (52 per cent)
- Course pathway planning (52 per cent).

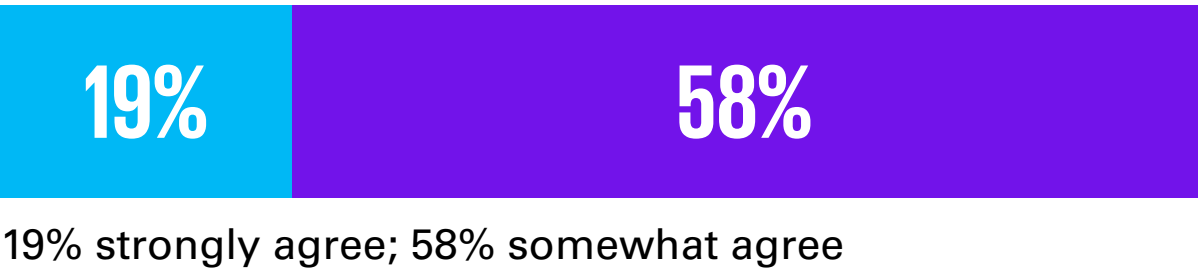


# Understanding AI risks

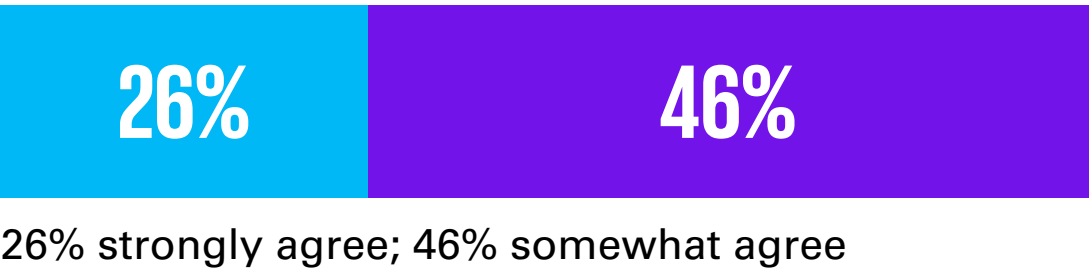
Students are aware of the risks of using generative AI and understand the privacy (75 per cent), intellectual property (72 per cent) and cybersecurity (72 per cent) implications.



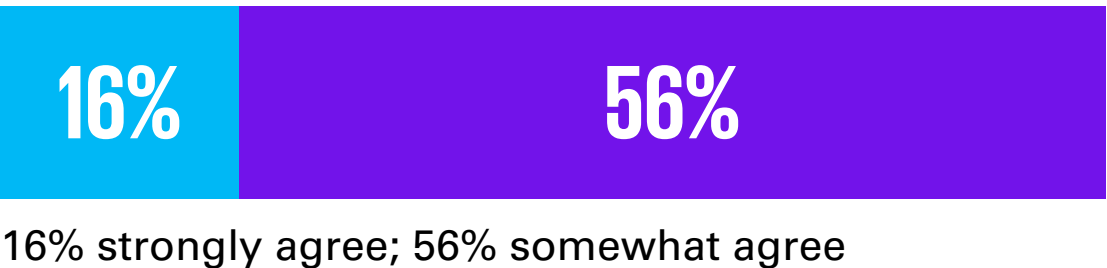
I am aware of and understand what happens to the information I enter into generative AI queries/prompts



I am aware of the intellectual property risks of using generative AI tools for school



I am aware of the cybersecurity risks of using generative AI tools for school



I am aware of the privacy implications of using generative AI tools for school





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**Seven in 10 students are saying they are turning to generative AI for help rather than their instructor.**

Here is an opportunity for students as well as faculty to clearly articulate the benefits of generative AI to drive trust between students and educators and to redeploy time towards other learning activities incorporating trusted AI.

**Jameel Ahamed**

Partner  
Technology Strategy & Digital Transformation  
KPMG in Canada

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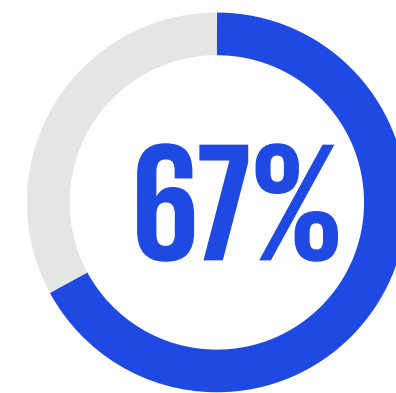


# How can higher education institutions help and train students to use AI effectively?

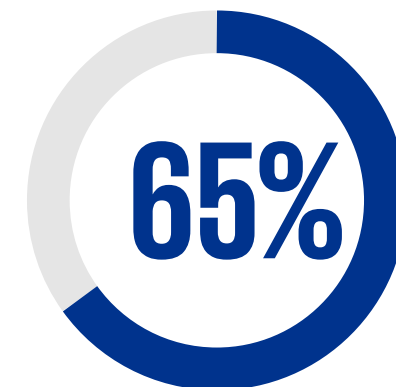
Students have acknowledged they need more support in the use of AI. Higher education institutions need to build a foundation and articulate policies that empower students to leverage generative AI in ways that augment their knowledge and skillsets, while using it responsibly.

Instructors may also find themselves with more time as well, which could help the institution optimize costs.

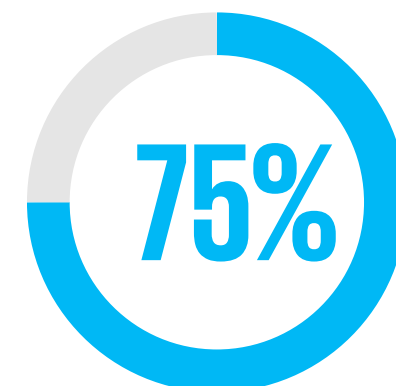
With seven in 10 students saying they are turning to generative AI for help rather than instructors, faculty members may find their roles shifting to higher-value tasks, including enhancing the student journey and engaging in high-level research in the use of AI.



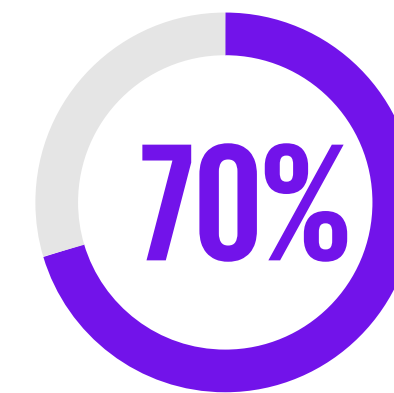
say that while they get better results / answers using generative AI, they don't think they're learning or retaining as much knowledge



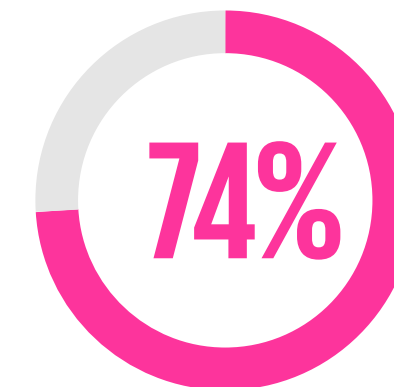
say that they still think they are cheating whenever they use Generative AI (although they continue to use it)



say that their institutions use tools to detect whether generative AI has been used in student work



say that they are turning to generative AI tools for help rather than asking the instructors



say that they think educational facilities need to be smarter about how they review admissions to ensure fairness in the admissions process



# Employee perspective

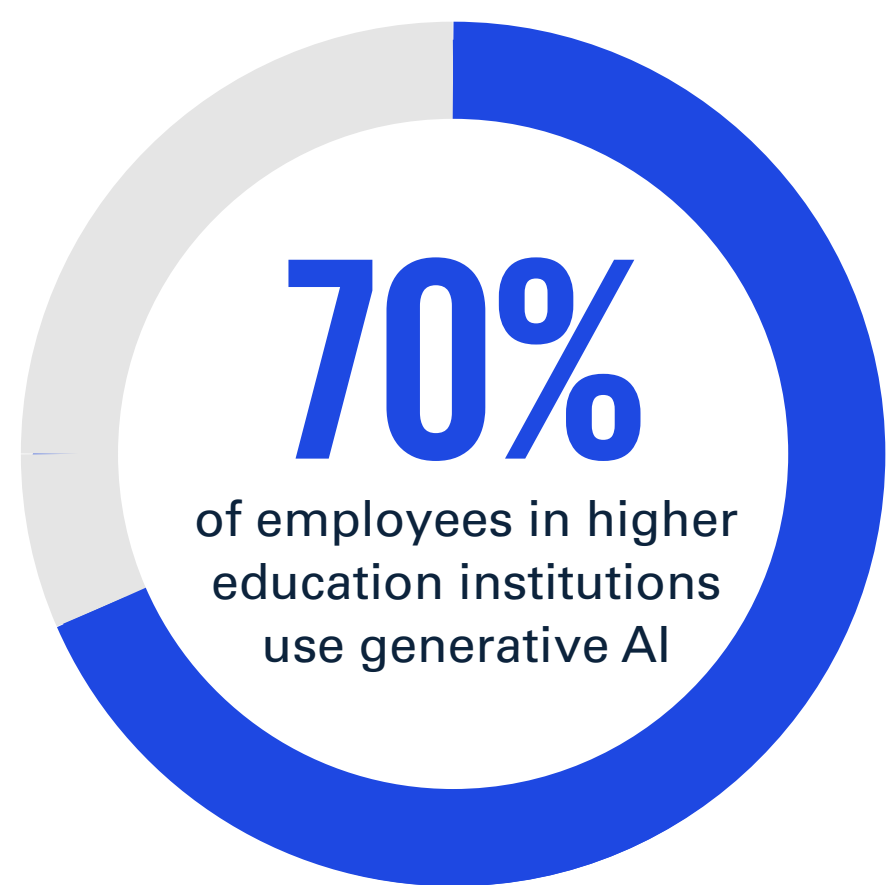




# How employees use generative AI

It's not only students that are exploring generative AI.

A KPMG poll on generative AI adoption in the workplace found that 70 per cent of employees in higher education institutions were using these tools. 26 per cent rely on it daily or on every project, and 64 per cent say it saves them at least one to two hours per week.



## How are respondents in educational institutions redeploying time saved from using generative AI

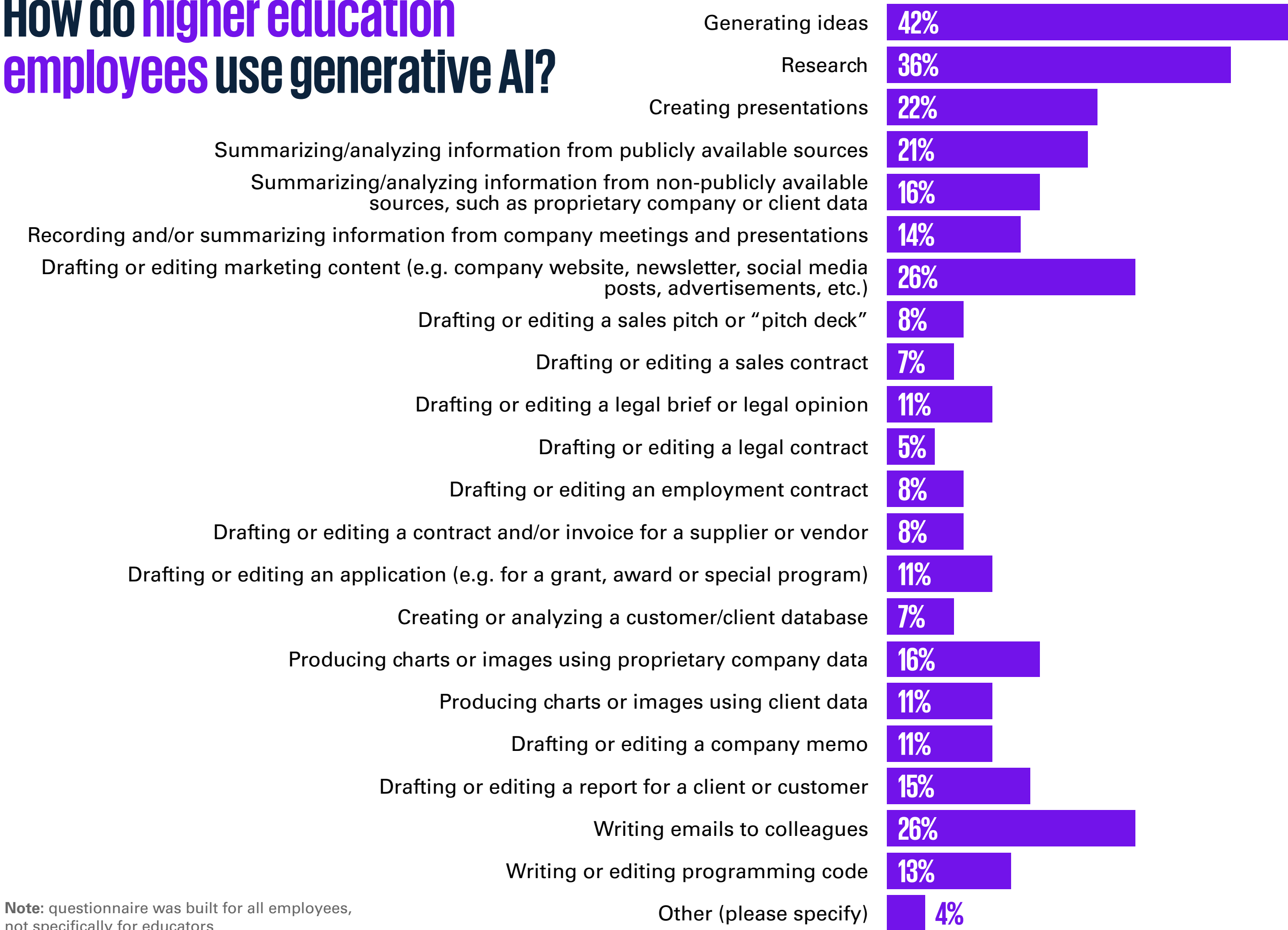




# How employees use generative AI

With generative AI picking up on administrative tasks, employees are finding more time for personal and professional growth. Employees now devote the hours they have saved to performing high-value tasks, starting new projects, professional development and other pursuits. Embracing the technology does more than boost efficiency and help cut costs – it helps higher educational institutions retain talent and attract new skilled employees.

## How do higher education employees use generative AI?



**Note:** questionnaire was built for all employees, not specifically for educators



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## 43% of the respondents who are employed in higher educational institutions have indicated

that they are redeploying time saved from use of generative AI towards more high-value tasks such as strategic planning, managing, improving operations and more. This clearly demonstrates the power of AI that can be harnessed to drive cost efficiency through increased productivity.

### Rob Clayton

Partner  
Education Sector  
KPMG in Canada

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# The future of learning incorporates generative AI

For a sector so rooted in tradition, change can be challenging. At the same time, higher education institutions have always moved with the times to enhance higher educational development. Generative AI can now perform administrative tasks with greater efficiency to support both student and institutional success.

By querying large datasets, for instance, administrators can gain insight into student and department performance. Educators can use generative AI to develop personalized learning experiences and recruitment specialists can build tailored materials to attract future students. In addition, they can use other data sets across the sector where these institutions have partnerships.

Our poll results suggest that generative AI usage and exploration will only accelerate. Future-forward educators see generative AI as part of the future of higher education and are now laying the groundwork. Embracing the tools and directing their use in ways that support and enhance the value of educational programs is the best way to prepare students and support employees in the days ahead.





# Learn more





# How KPMG can help



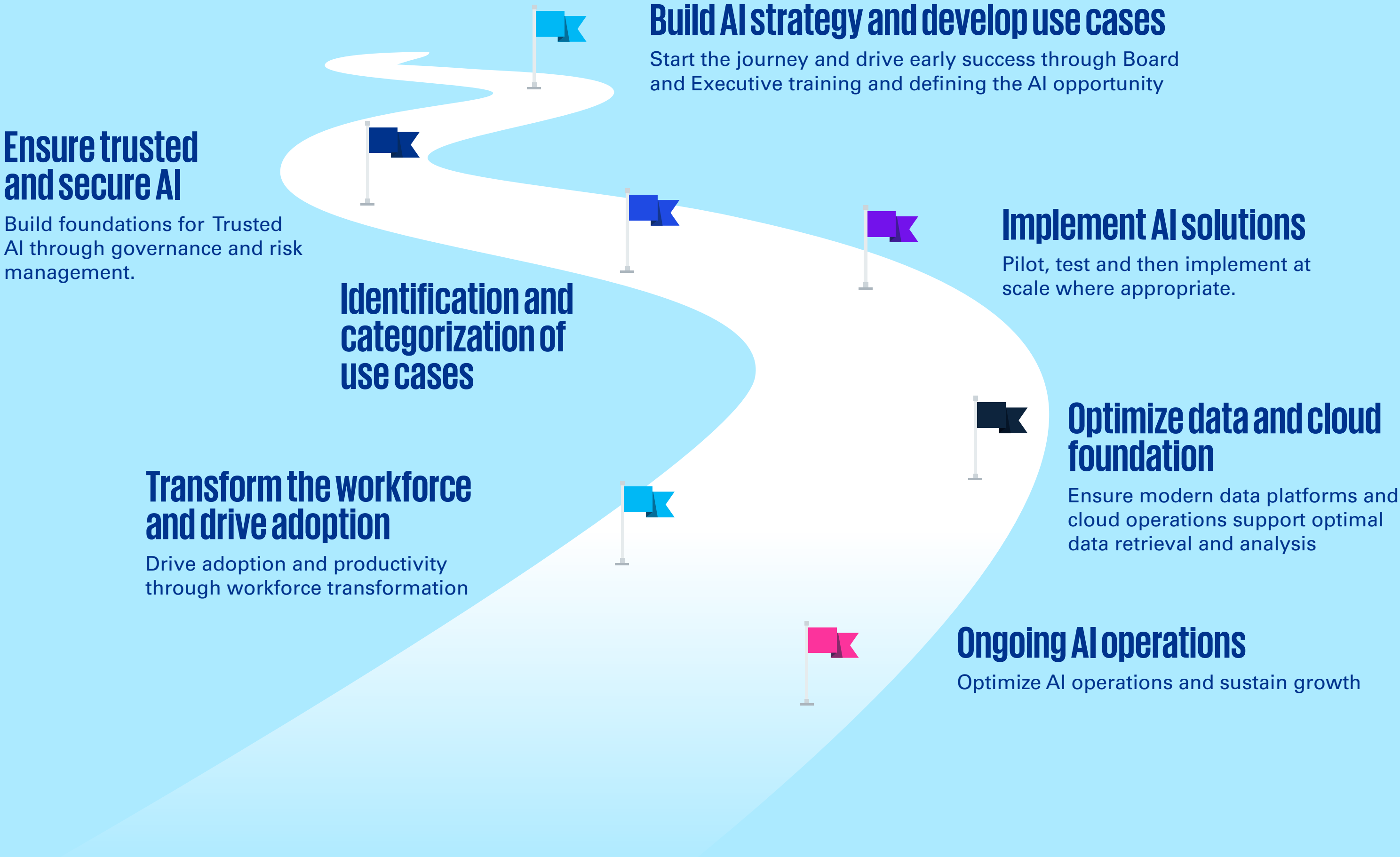
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# Research methodology

## About the KPMG Generative AI Adoption Index Survey

KPMG surveyed 2,551 Canadians (aged 18+) from August 6-21, 2024, using Sago’s Methodify online research platform to gauge the adoption and use of generative AI.

Included in the survey were 423 students attending university, college, vocational, or high school educational institutions.

Of the total students surveyed, 250 students, or 59 per cent, use generative AI for their schoolwork. That’s up 7 percentage points from 52 per cent in 2023.

## Where are they currently enrolled?







**[kpmg.com/ca/AI](https://kpmg.com/ca/AI)**

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