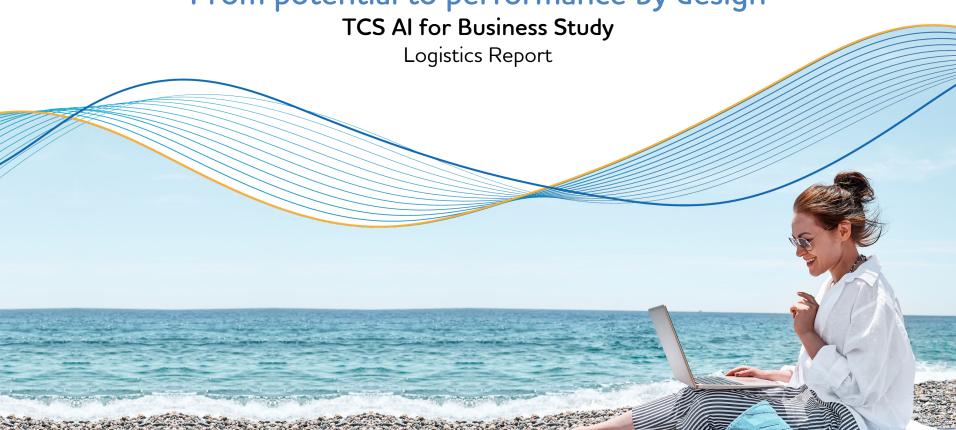




From potential to performance by design



About the TCS AI for Business Study



TCS surveyed senior executives at nearly 1,300 companies in 12 sectors across 24 countries, approximately half of which had annual revenues over US\$5 billion.

This report includes study findings from 59 survey respondents in the Logistics industry – including overseas cargo, overnight freight, and warehousing companies.

What's driving AI implementations?

How are employees, skills and roles shifting?

How is AI redefining the Logistics industry?

What customer engagement AI trends are emerging?

Where is AI strategy headed in Logistics?

Are business results aligning with aspirations?

The findings in this report reflect a survey sample of 59 senior executives — CEOs, divisional and business unit heads, and senior VPs or VPs with profit-and-loss responsibility — working for major Logistics companies headquartered in the following countries:

- Australia
- Austria
- Belgium
- Brazil
- Canada
- Chile
- Colombia

- Denmark
- France
- Germany
- India
- Ireland
- Japan
- Luxembourg

- Netherlands
- New Zealand
- Norway
- Switzerland
- UK
- USA

Additionally, seeking to find correlations between a company's business success and its approach to implementing artificial intelligence, each executive's company was ranked alongside the others in that same industry for its financial success, as measured by a combination of revenue growth and profit growth over the last three years.

These "Pacesetters" represent the top 32% of companies — 19 companies — among the Logistics executives we surveyed.

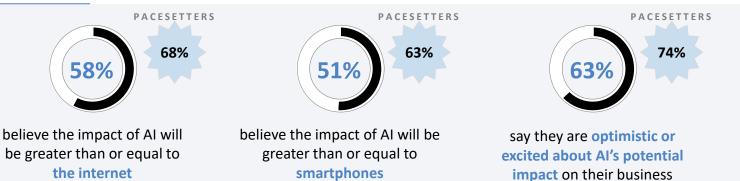
Where relevant, this report notes differences between the industry's overall survey answers and the responses of its Pacesetters.



An optimistic outlook on Al's impact



Few technology advancements have gripped the public imagination like artificial intelligence. The majority of senior executives in the Logistics industry believe Al's impact on their business model will be greater or equal to earlier disruptive technologies, and they're optimistic about its potential.



Q. How would you compare Al's potential impact on your business model with the following technological developments: Internet; smartphone.

Q. Which of the following is closest to how you're feeling about Al's potential impact on your business?

Humans, not AI, expected to remain the competitive differentiator



Most Logistics executives believe that rather than replacing human workers, AI will augment and enhance human capabilities, enabling people to focus on higher-value activities that require creativity, empathy, and strategic thinking.



Nearly two-thirds of Logistics executives say human creativity or strategic thinking will remain their company's competitive advantage.





46%



19%



expect AI to make more tactical decisions, freeing up workers to think more strategically



believe human intuition and creativity will remain central to their company's competitiveness

Q. In your business, which of these statements most closely matches your own expectations for how AI will impact decision making in the next 3-5 years?

Executives want to innovate and make money with Al

The Logistics industry is more focused on using AI to spur innovation and grow revenue than are most other industries. On a 10-point scale between "optimization" and "innovation," Logistics executives averaged 7.36, compared to an average of 6.69 for all other industries.

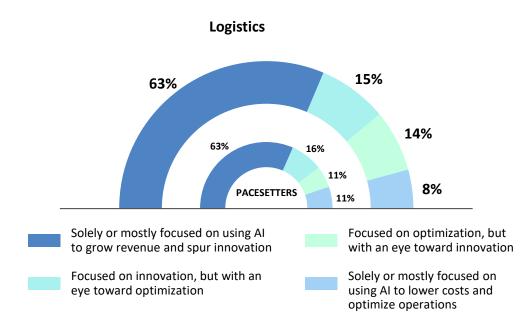
Logistics Pacesetters are largely on par with the rest of their industry:



of respondents at Pacesetter organizations said they are primarily focused on innovation



said they are more interested in using AI to optimize operations and cut costs



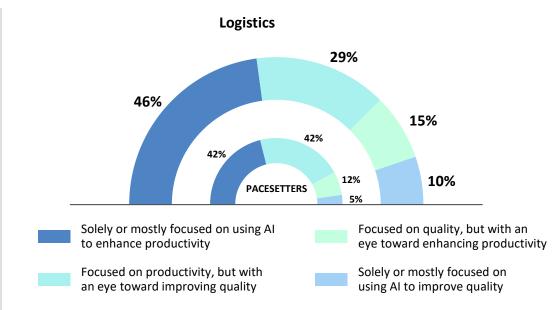
Q. On a scale of 1 to 10 — where 1 is solely interested in using AI to lower costs and optimize operations and 10 is solely focused on spurring innovation and revenue growth — where would your company's current approach toward AI fall?

Productivity is an AI benefit, but quality will be its lasting value

In Logistics as in other industries, more companies are focusing on using AI to enhance productivity rather than look to it for quality improvements. But over time, a more balanced approach to integrating AI – through optimization, productivity, innovation and quality – the better the outcomes across an enterprise.

On a 10-point scale between "improving quality" and "enhancing productivity," Logistics executives scored an average of 6.93, compared to the 6.90 average across other industries.

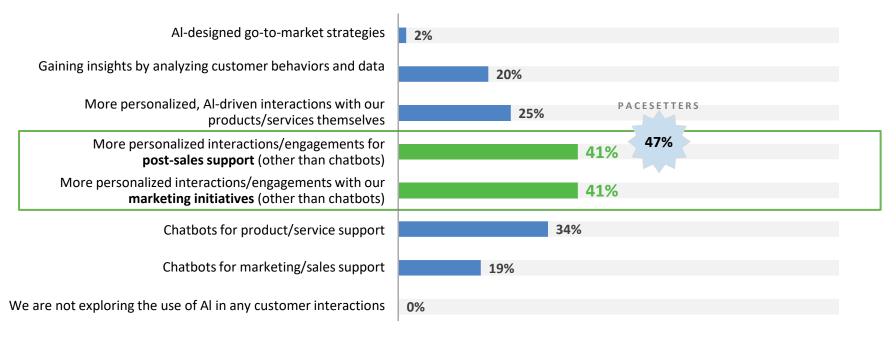
The industry's Pacesetters are even more inclined to focus on productivity gains, scoring an average of 7.11 on this scale.



QQ. On a scale of 1 to 10 — where 1 is solely focused on using AI to improve quality and 10 is solely focused on using AI to enhance productivity — where would your company's current approach toward AI fall?

Personalized interactions are top AI customer focus areas

When it comes to customer engagement, organizations say they're moving beyond commonplace chatbots. While chatbots for sales and product support remain important to Logistics companies, their use is being supplanted by other Al-driven means to accomplishing these goals.

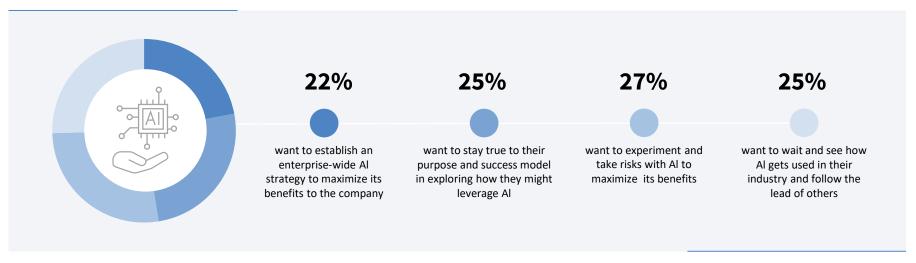


Q. In what ways are you exploring Al's impact on your relationships with customers?



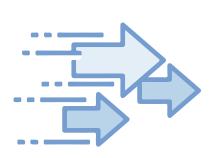
One size fits one? Al adoption strategies vary

Al is not plug-and-play technology with a one-size-fits-all strategy, and the findings from Logistics executives reflect their varied approaches to Al. Over a fifth favor establishing an enterprise-wide Al strategy and a quarter want to apply Al to their existing business model and operations where it makes sense, but over a quarter want bold experimentation and fail-fast methods.



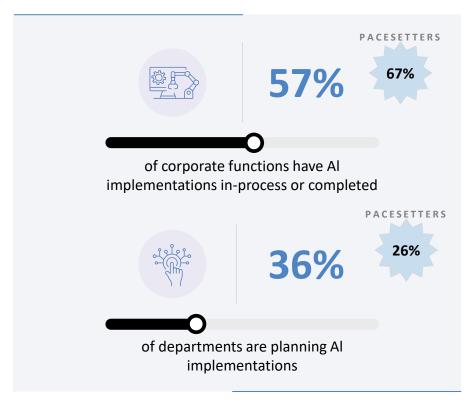
Q. Rank three areas in order of importance to your company's leadership regarding the use of AI in the enterprise.

Fast or slow, Logistics organizations are adopting Al



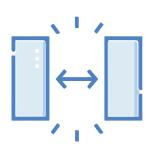
While the pace of AI adoption differs, the ultimate objective is overwhelmingly consistent.

The vast majority of Logistics executives (93%) have AI implementations planned, in process or already completed.



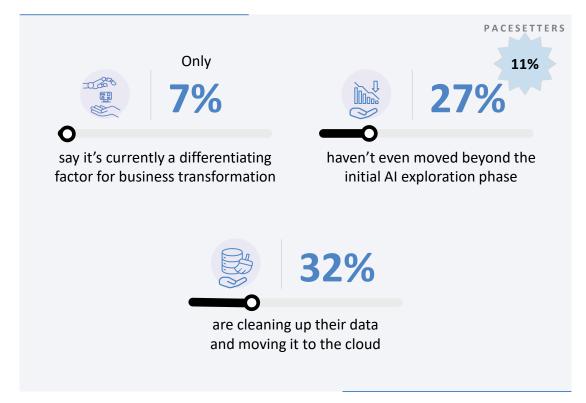
Q. What is the state of implementation for AI-enabled operations in the following areas of your company?

A gap between aspiration and reality



The merging of reasoning and recognition intelligence into generative models offers tremendous potential to help companies reimagine entire value chains and transform the way they do business.

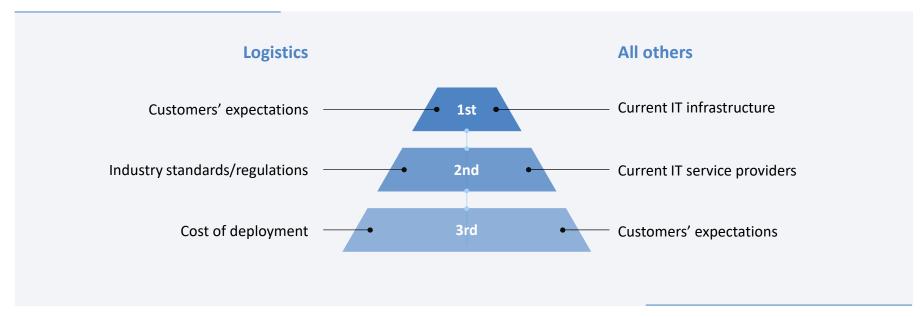
But most Logistics respondents say they have a long way to go to realize these outcomes.



Q. Looking at your organization overall, which most closely describes your company's current relationship to AI?

What's hampering AI progress?

Logistics executives say their customers' expectations, industry standards and regulations, and the cost of deployment are slowing their overall AI efforts.



Q. What are the top 3 challenges to making effective use of AI in your company?

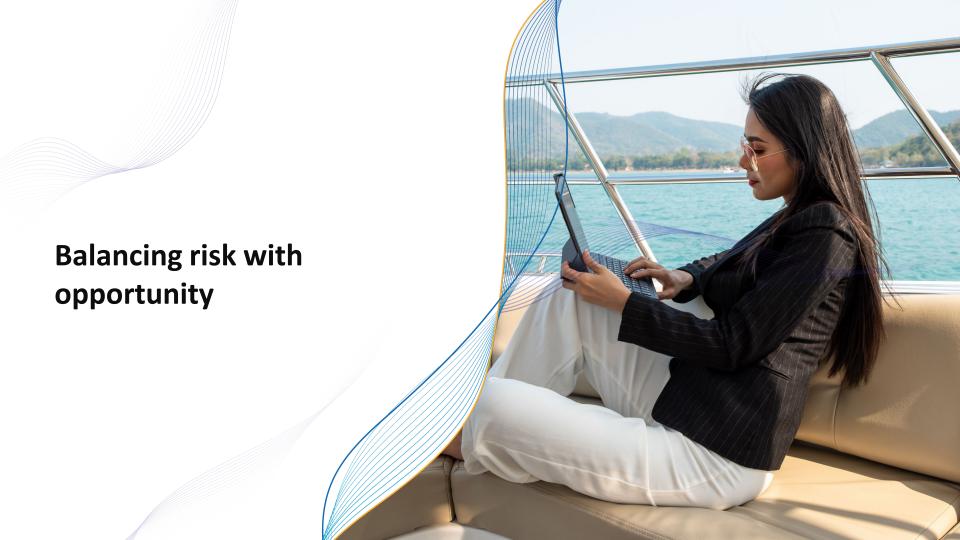
Generative AI brings its own set of challenges

58% of Logistics executives surveyed expect up to half of their employees to be using GenAI on a daily basis within the next 3 years. Logistics executives say GenAI has caused them to explore more automation opportunities to enhance efficiency and productivity.



Q. In three years, what percentage of your employees do you believe will be using/interacting with Generative AI capabilities on a daily basis?

Q. Rank the top 3 statements, which most closely reflect how recent attention to Generative AI (specifically) has changed your company's assessment of AI's benefits and risks more generally

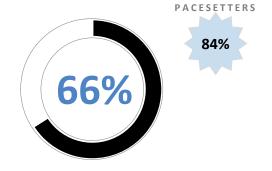


Making way for Al



Introducing such powerful technology into organizations comes with a great weight of responsibility. Extensive preparation and stringent governance that foster trust in outcomes and investment values must go hand in hand with AI adoption.

Logistics businesses are not only aware of the changes involved, but actively planning for them.



of Logistics companies are currently reworking or are planning to rework how they operate across the enterprise

Q. Have you given any thought to how your company's strategic direction needs to be revised due to Al's potential benefits or risks for your organization or your industry?

Homegrown implementation prevails for now



As AI preparation turns to implementation, organizations face numerous decisions to achieve the right mix of artificial intelligence and investment.

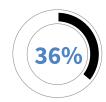
Despite the complexity, over half of Logistics companies are likely to rely on internal teams to develop and implement AI — even for tasks as difficult as creating their own enterprise-specific large language models (LLMs).



PACESETTERS

42%

say they are relying solely or mostly on in-house talent to implement this new technology



plan to create their own enterprisespecific LLMs for use in GenAl implementations

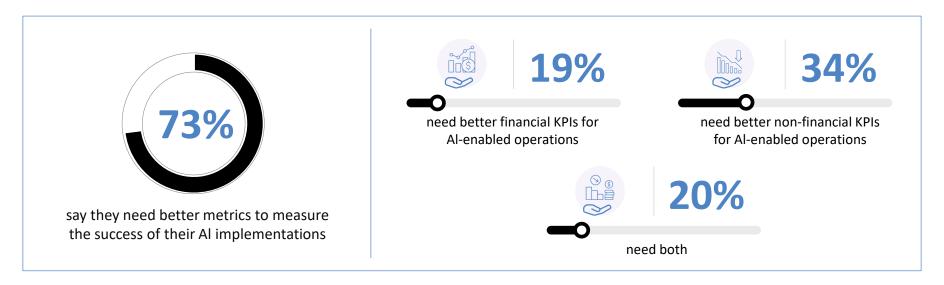
Q. On a scale of 1 to 5, how much are you relying on external vendor and partnerships (including academic or government partners) for your AI implementations and how much are you doing in-house?; Q. Are you planning to create your own enterprise-specific LLMs for use in Generative AI implementations?

Implementation metrics fall short

Logistics executives say they need better KPIs to measure the success of their AI implementations. Without KPIs, organizations will struggle to demonstrate AI's value and gain internal traction for its adoption.

Only 17% say they have "good enough" metrics and KPIs for their current stage of AI deployment.

10% said they aren't even aware of any useful metrics for AI implementations.



Q. Which statement most closely matches how you feel about measuring the success of and financial return on AI implementations?

Navigating ethical, security and privacy dimensions

The debut of sophisticated AI applications has intensified the focus on security and privacy concerns, and the ethical dimensions of AI use have also garnered significant attention. Most senior Logistics executives prefer global standards, debating whether specific use cases are better covered at this scale or more locally.



42% prefer global Al standards regulating specific use cases and outcomes



44% prefer global Al standards, plus specific regional controls



10% prefer a heterogenous environment of local regulations



3% think it's too early or unnecessary to regulate Al

Q. Which regulatory landscape is most appropriate for your business's use of AI?

A regulatory partnership between industry and government

Nearly half of Logistics executives think regulations should be jointly established between industry voices and government agencies. And over half also think academic expertise deserves a seat at the table given how complex this technology already is and how quickly it is evolving.



Q. Which organizations should be involved in establishing regulations about AI?

TCS recommendations

Based on this research, here are our recommended next steps.



Focus on the business value, not the technology

Embrace an AI strategy based on prioritized initiatives and use cases that have the potential to drive tangible business outcomes.



Make your business & culture Al-ready

Invest not only in the necessary technology and infrastructure but in a culture that embraces change, experimentation, and continuous learning.



Adopt a more strategic approach

Consider the broader strategic value of AI initiatives and how they can be used to improve operational efficiency, reduce risk, and enhance decision-making — all of which can contribute to overall business performance.



Don't go it alone

Let business and IT staffs focus on core competencies and strategic objectives, seeking partnerships and external expertise where appropriate, rather than shouldering the entire burden of AI implementation internally.



Plan for success, not scarcity

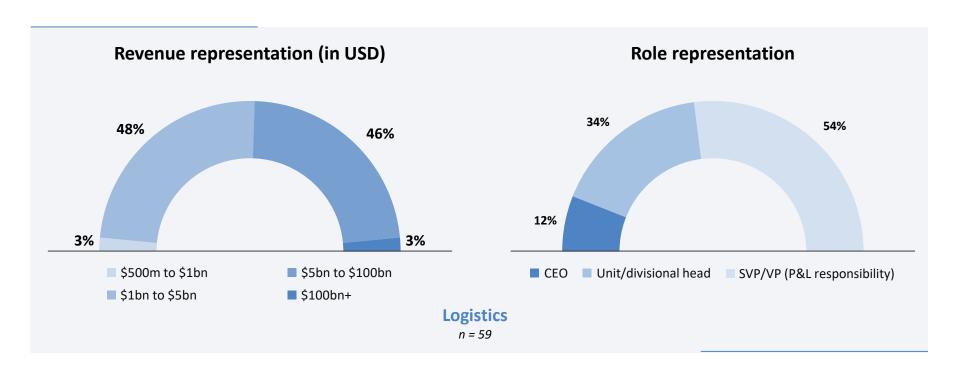
Implement AI with the goals of expanding revenue, opportunity, and innovation, which offers the potential to create new jobs and enhance human capabilities.



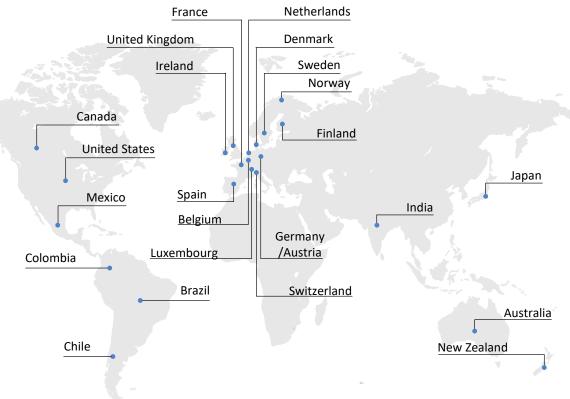
Create higher-level relationships with customers

Leverage more modern AI to deliver highly personalized, proactive and more value-added experiences across the customer journey for competitive differentiation and to build long-term loyalty.

Demographics: revenue and roles



Demographics: 24 countries represented in the study



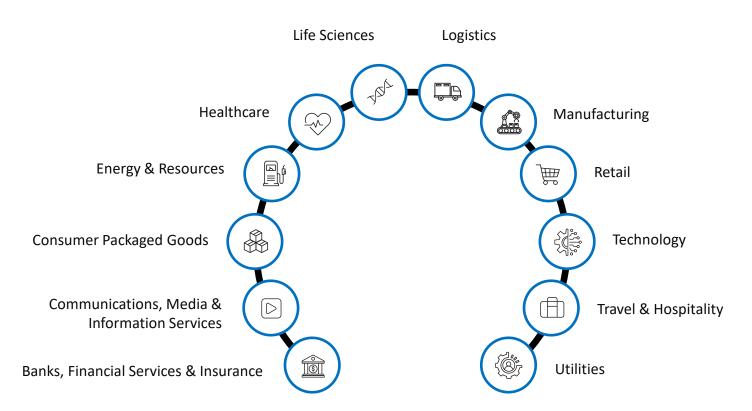
Total = 1,272 Logistics = 59

Note: All countries except for

sample

Finland, Mexico, Spain, Sweden are included in the Logistics

Demographics: 12 industries represented in the study



About the study

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Get more insights

If you would like to get additional research based on the TCS AI for Business Study, visit on.tcs.com/2024-global-AI-study

For more information or any feedback, email the TCS Thought Leadership Institute at TL.Institute@tcs.com



The TCS AI for Business Study explores how companies around the world are looking at the strategic implications of AI technologies and how they are responding to its transformative potential. A survey of 1,272 senior executives with profit-and-loss responsibility at their companies was conducted November 28, 2023, through January 17, 2024, with responses from 24 countries across 12 industries, exploring the strategic implications of artificial intelligence and their expected impact on large, for-profit enterprises.

Some data presented will not add up to one hundred percent due to rounding, and not every answer is included in the findings reported.

About the Thought Leadership Institute

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A part of the Tata group, India's largest multinational business group, TCS has over 601,000 of the world's best-trained consultants in 55 countries. The company generated consolidated revenues of US \$29 billion in the fiscal year ended March 31, 2024, and is listed on the BSE and the NSE in India. TCS' proactive stance on climate change and award-winning work with communities across the world have earned it a place in leading sustainability indices such as the MSCI Global Sustainability Index and the FTSE4Good Emerging Index. For more information, visit www.tcs.com

