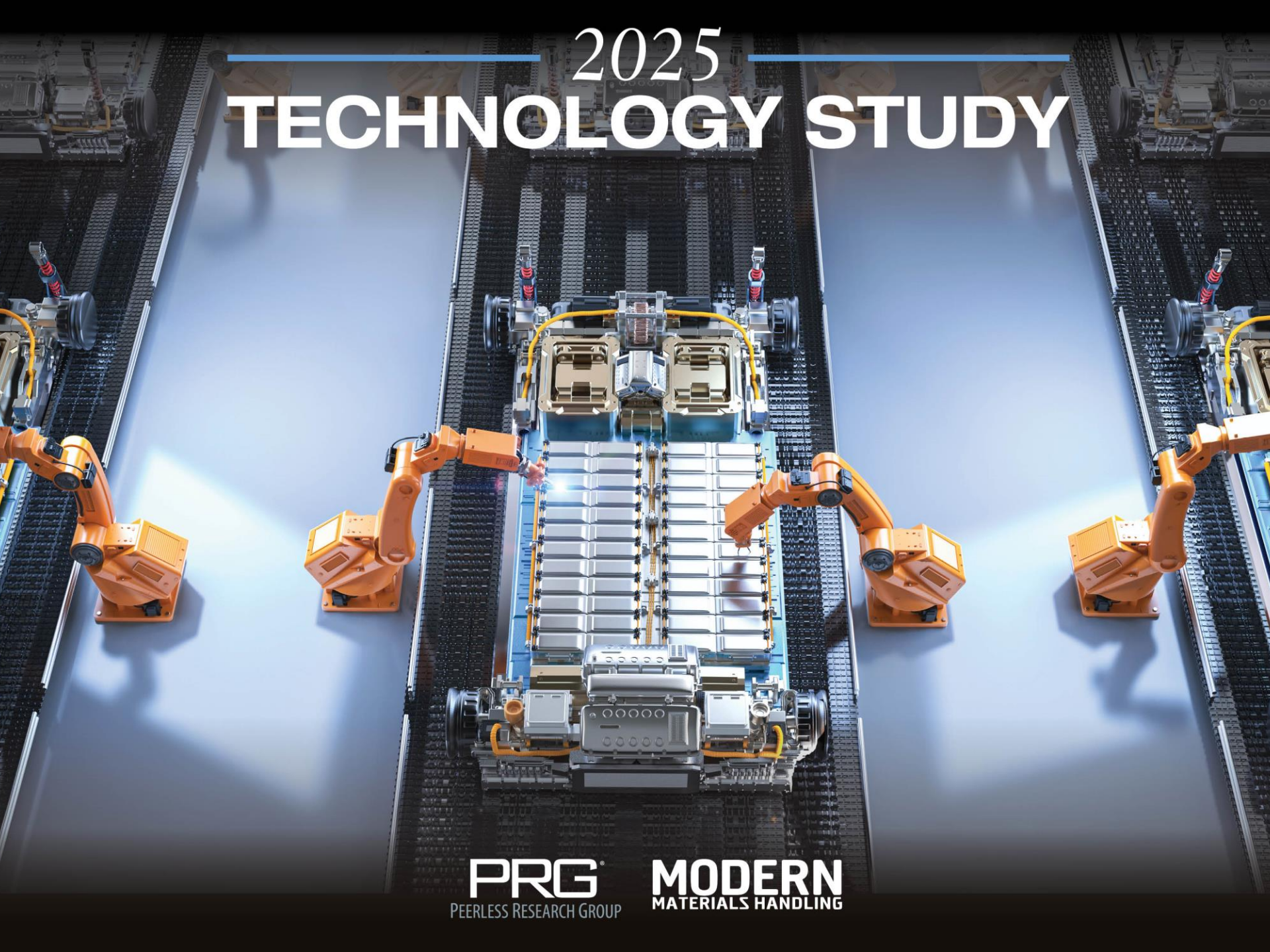


2025 TECHNOLOGY STUDY



PRG
PEERLESS RESEARCH GROUP

MODERN
MATERIALS HANDLING



Introduction & Methodology

Background

- This research was conducted by Peerless Research Group on behalf of **Modern Materials Handling** to assess usage and purchase intentions for automation systems and solutions used in warehouse and distribution center operations. Where possible, results in this report trend to the 2023 and 2024 waves.
- Specific areas of investigation include:
 - Factors and features considered important when evaluating automation systems and solutions for possible purchase
 - The impact of coronavirus on upcoming purchase plans
 - The extent to which specific warehouse processes are automated and areas that operations will be looking to improve during the next two years
 - Order fulfillment activities currently running and tasks companies will look to improve/implement
 - Usage and implementation/upgrade plans for equipment used in warehouses and DCs:
 - Conventional equipment
 - Automated equipment
 - Data collection technologies
 - Supply Chain Execution solutions
 - Supply Chain Management solutions
 - Estimated spend on materials handling equipment and solutions for 2025
 - Buying channels/sources use for order fulfillment solutions and for purchasing equipment replacement parts
 - Respondent and company demographics

Methodology

- Survey method: E-mail
- Incentive: \$100 Amazon gift card
- Respondent criteria: For personally being involved in the purchase decision process for materials handling solutions for their company
- Field and Response:

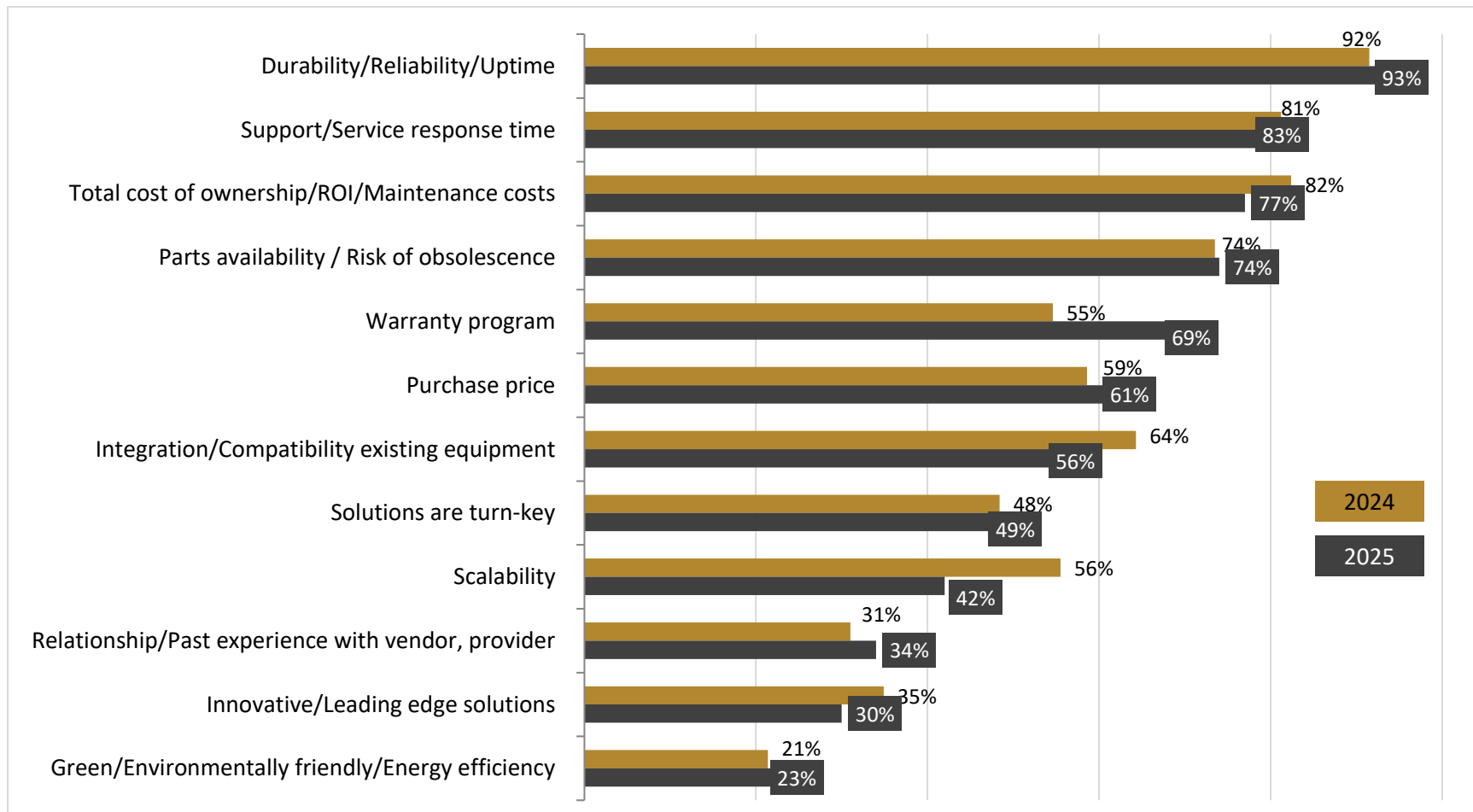
	Field	# of usable returns	+/- Sampling variation at 90% confidence level
2023	November 2022	150	6.7%
2024	November 2023	155	6.6%
2025	October 2024	139	7.0%

November 2024



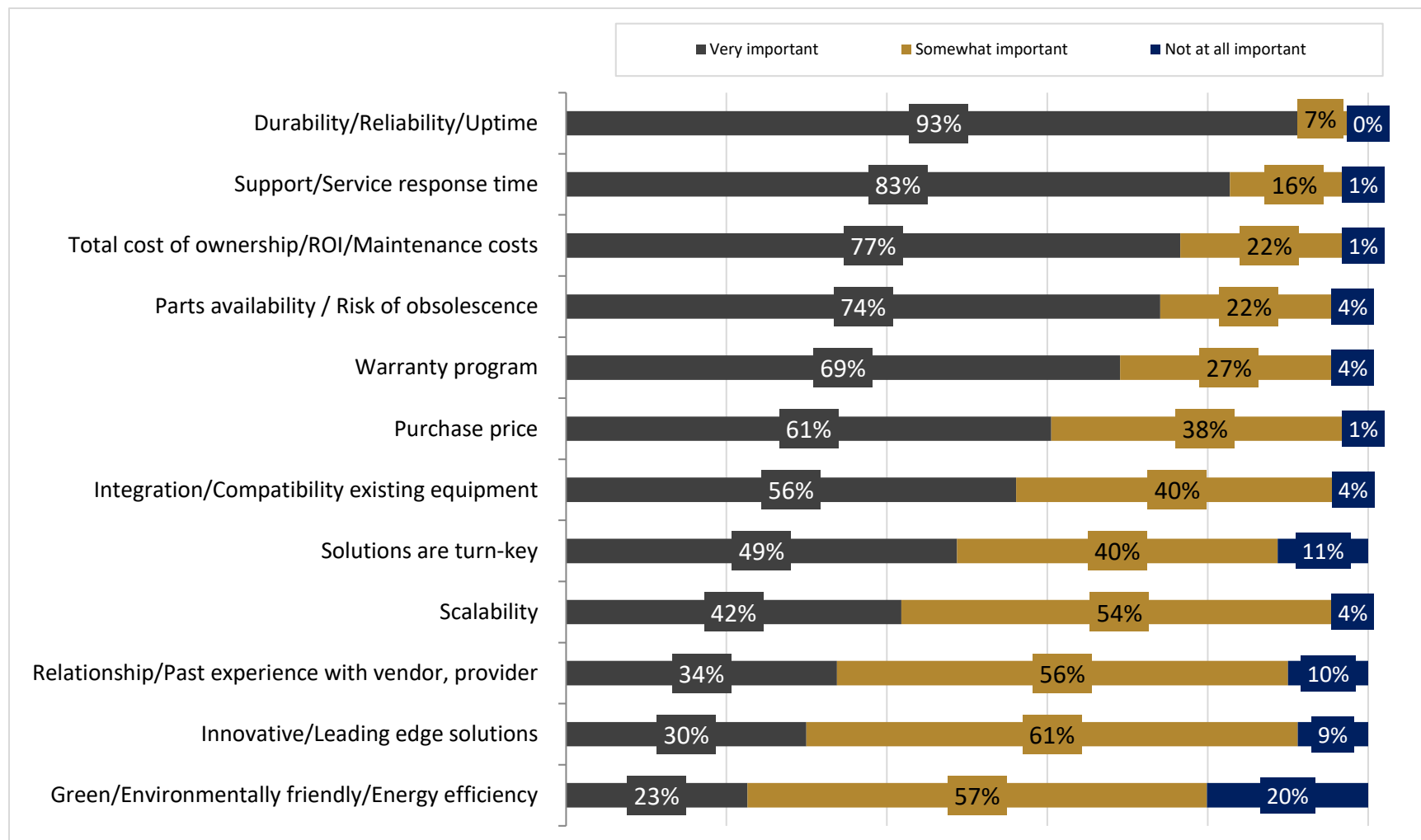
How important are each of the following when evaluating automation systems and solutions for possible purchase?

(Summary: Rated Very important -- 2024 v. 2025)





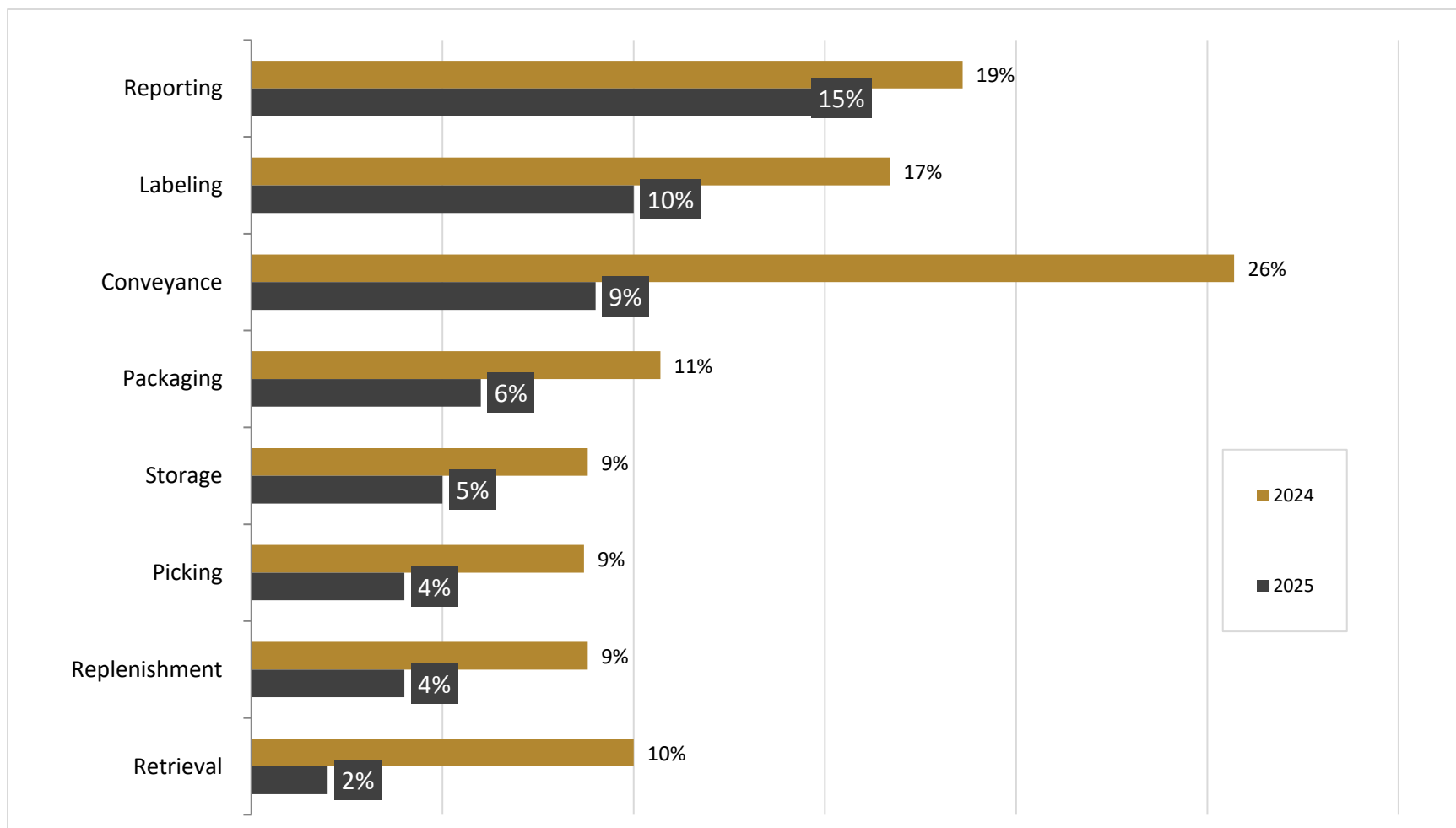
How important are each of the following when evaluating automation systems and solutions for possible purchase?





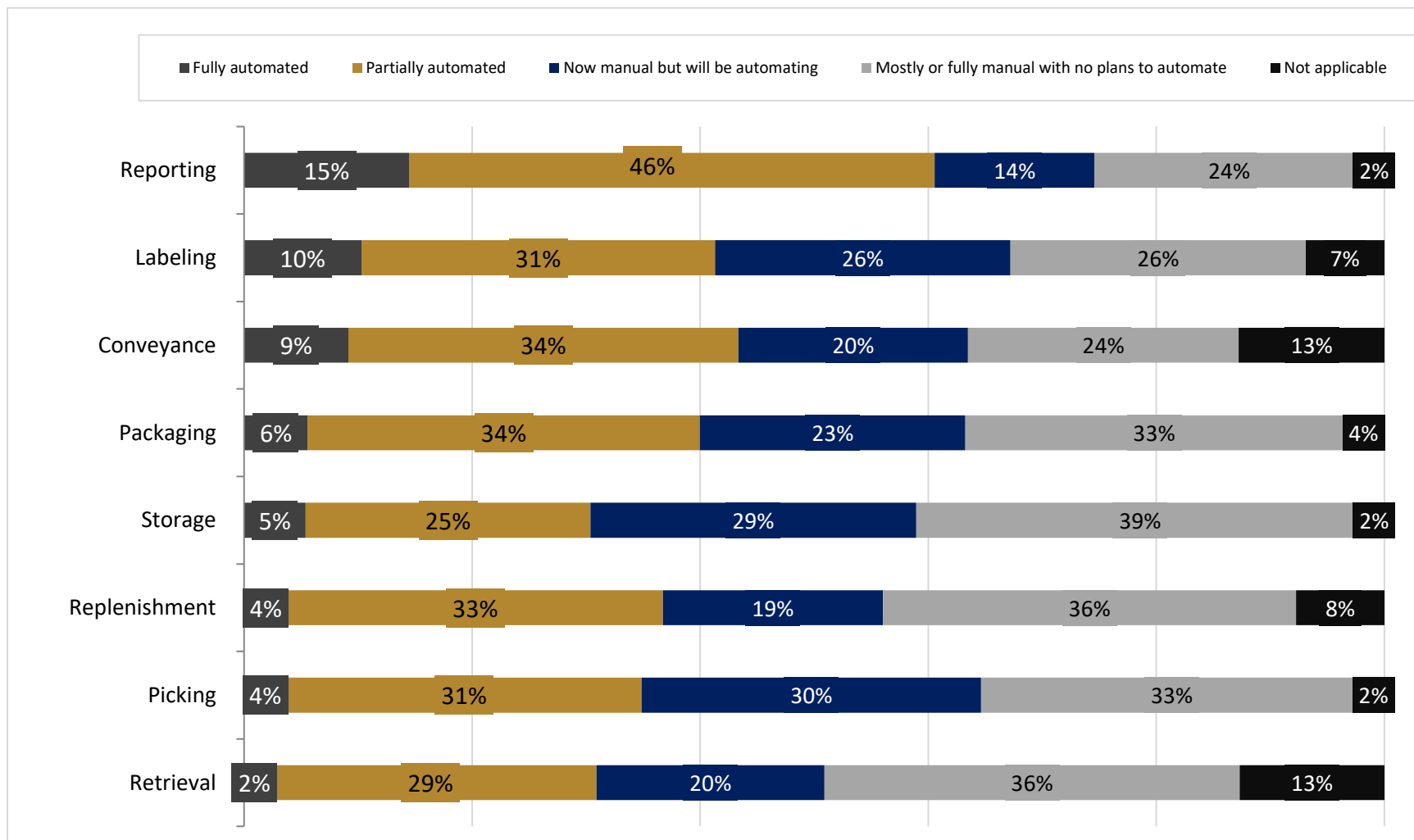
To what extent is each process automated?

(Summary: Fully automated-- 2024 v. 2025)



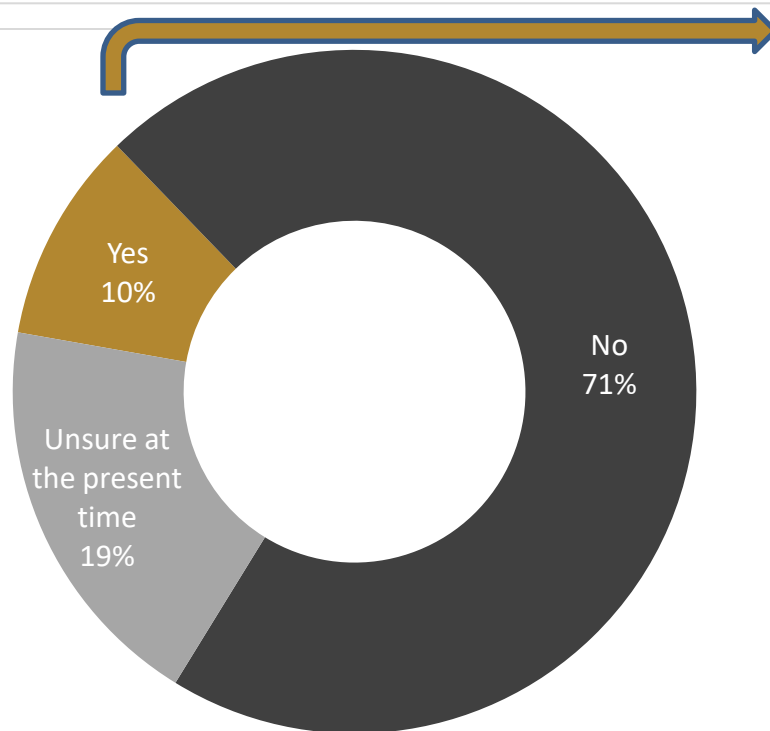


To what extent is each process automated?

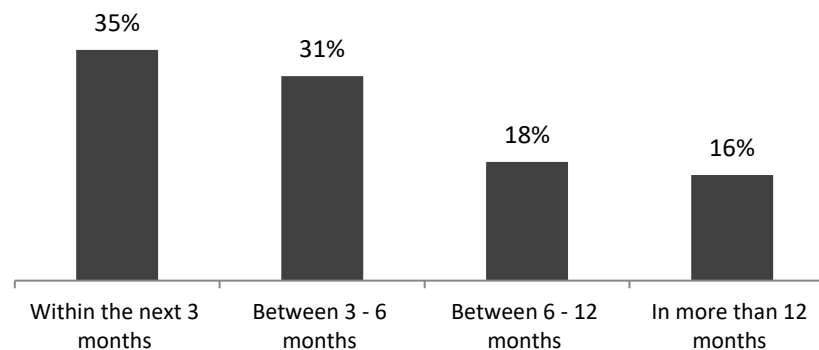




Is your company changing its purchase plans for warehouse and DC solutions?

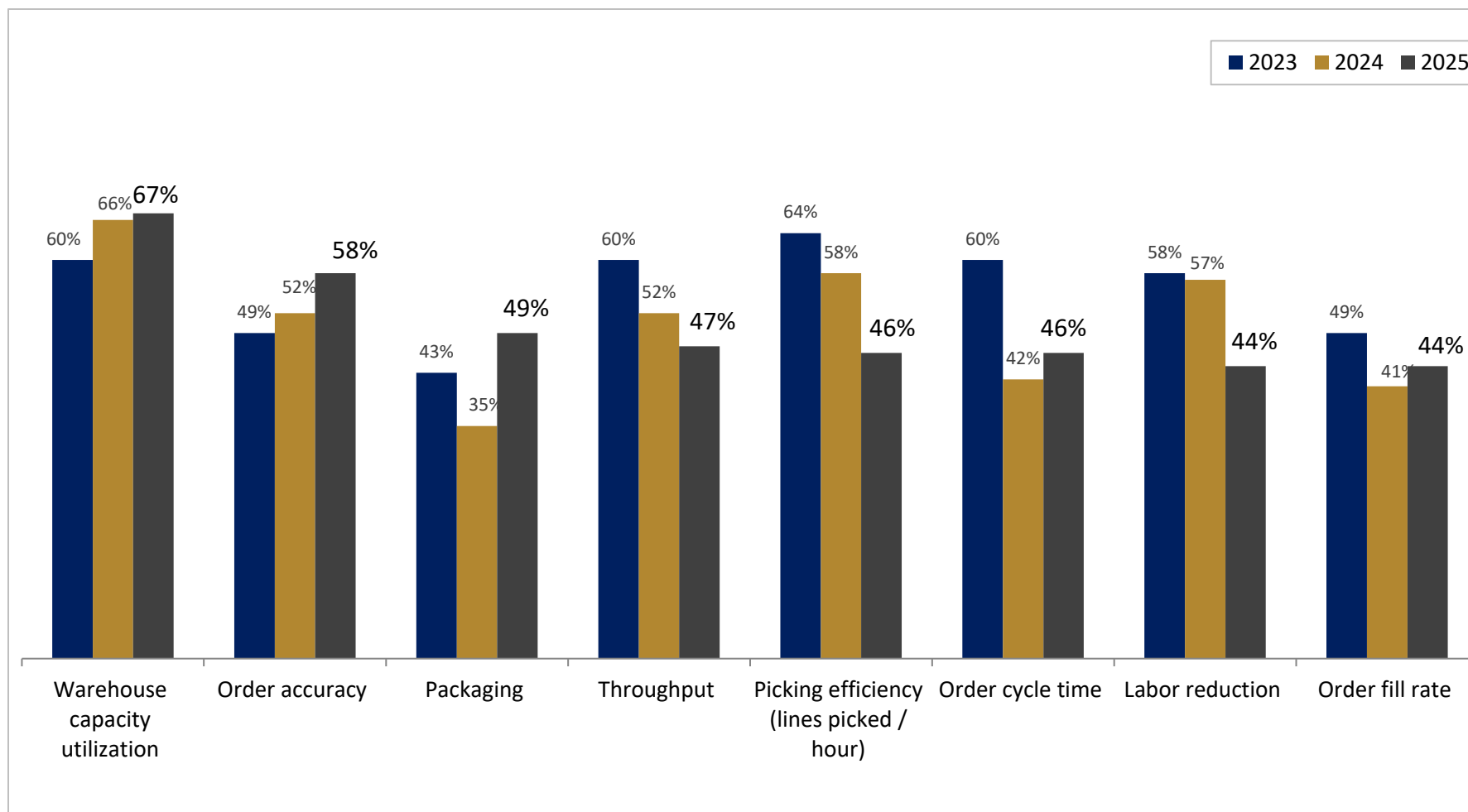


When do you see changes to your purchase plans being made?



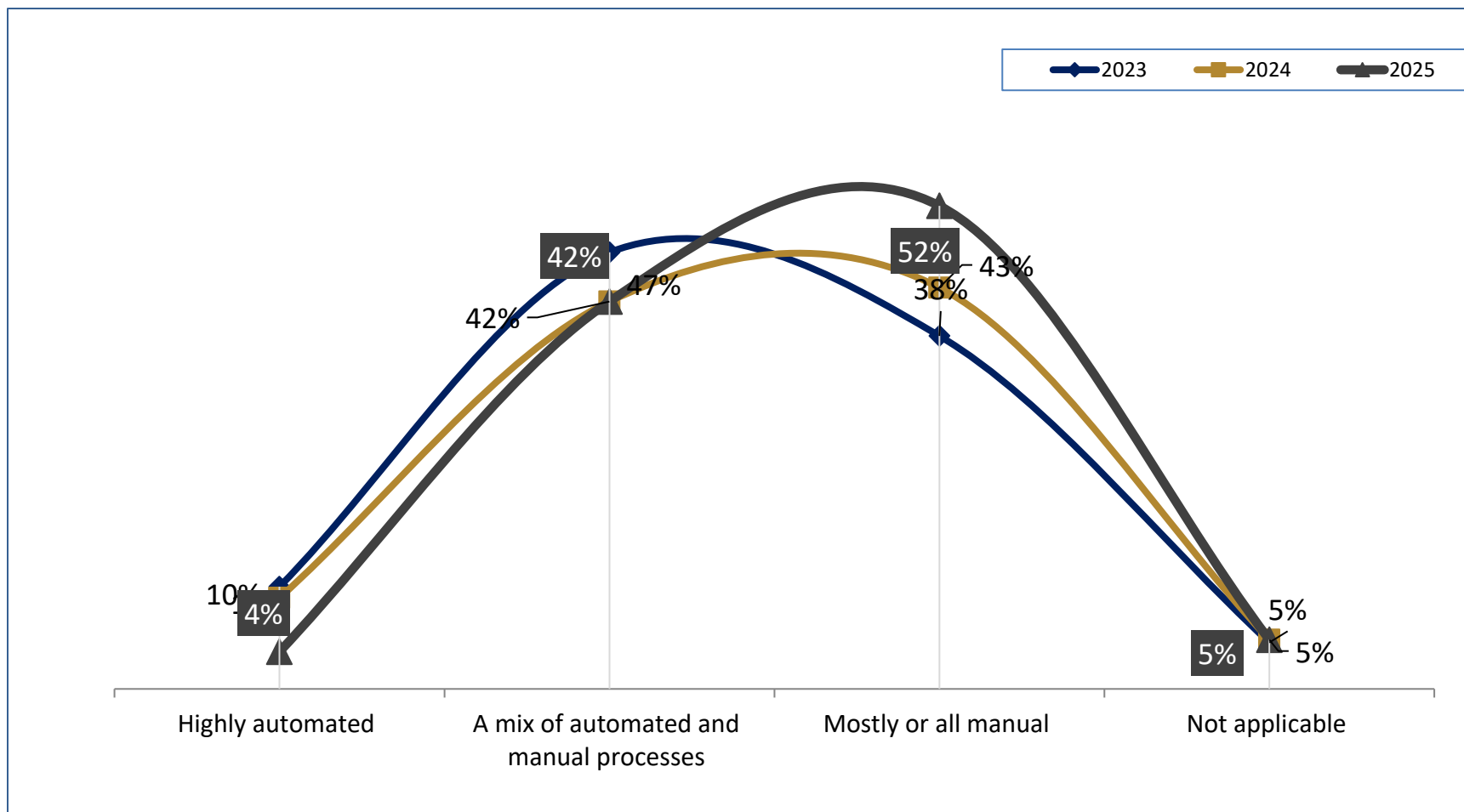


During the next 2 years, what areas are you looking to improve in your warehouse/DC operations?





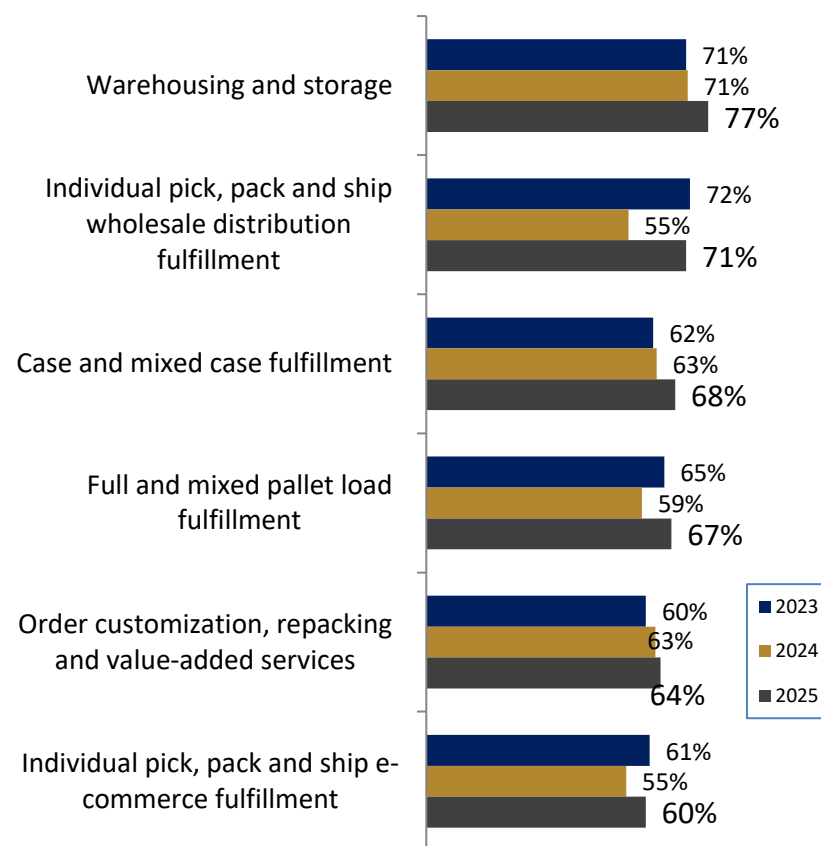
How would you best describe your order fulfillment operations (picking and packaging)?



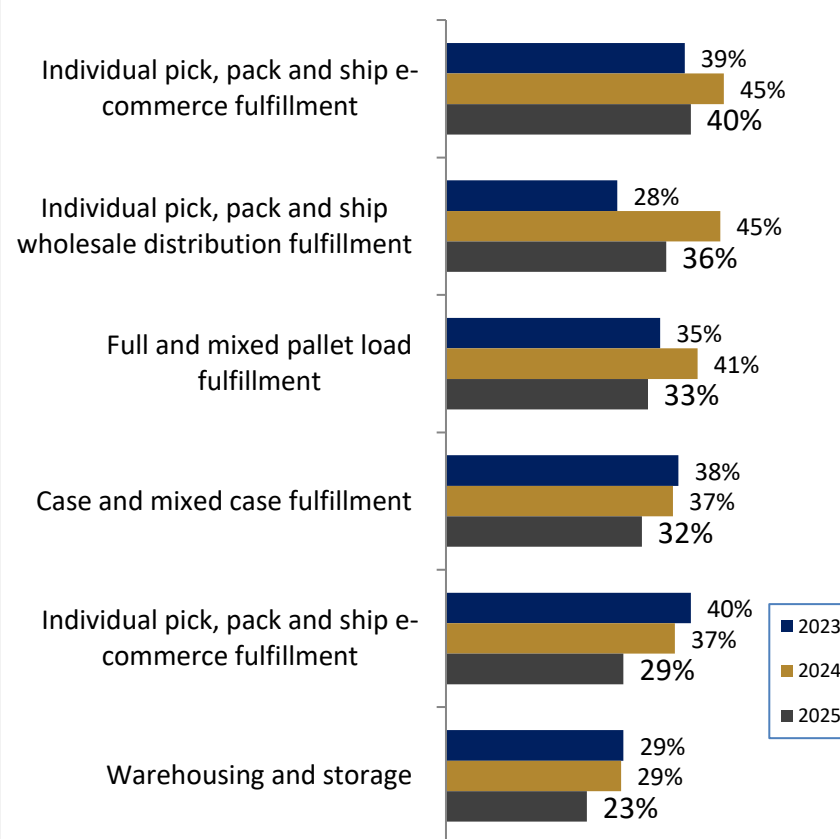


**Which order fulfillment activities are you currently employing?
And, which are you looking to implement or improve over the next 24 months?**

In use



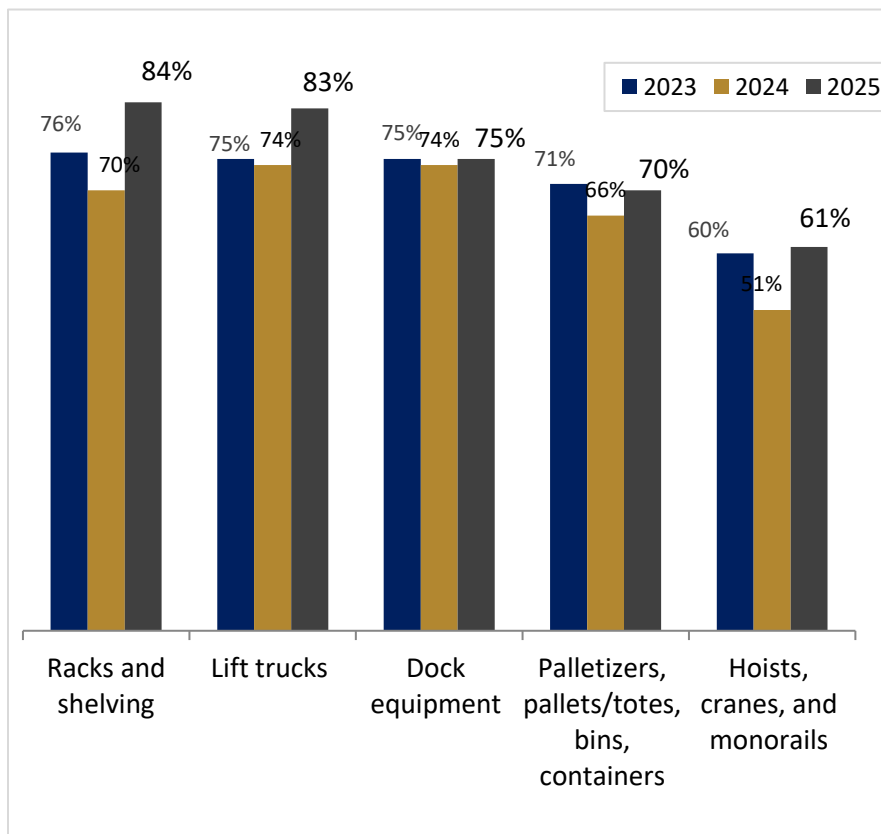
Plan to implement/improve



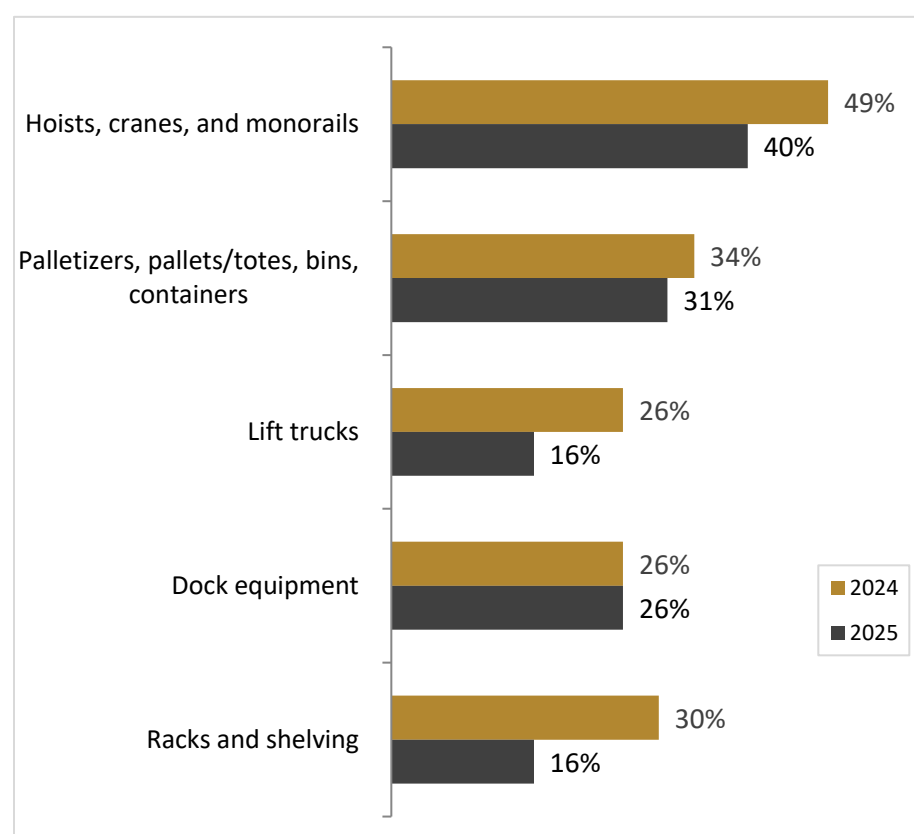


What conventional equipment is presently in use in your organization and which will you be upgrading or implementing during the next 24 months?

In use



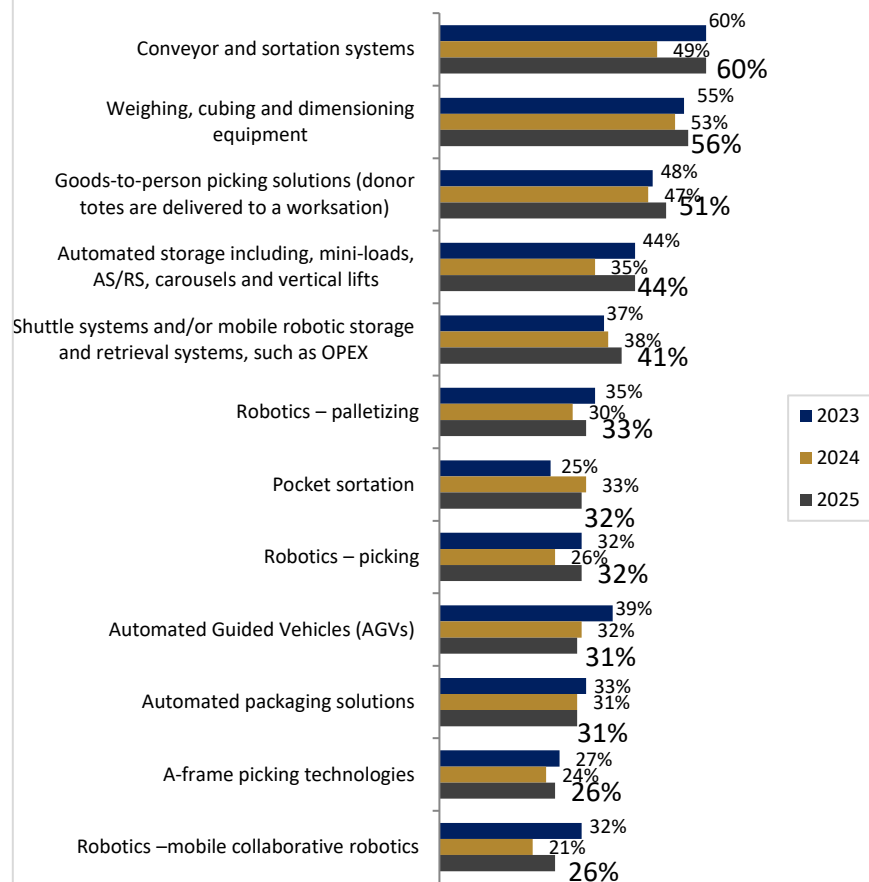
Plans to upgrade/implement



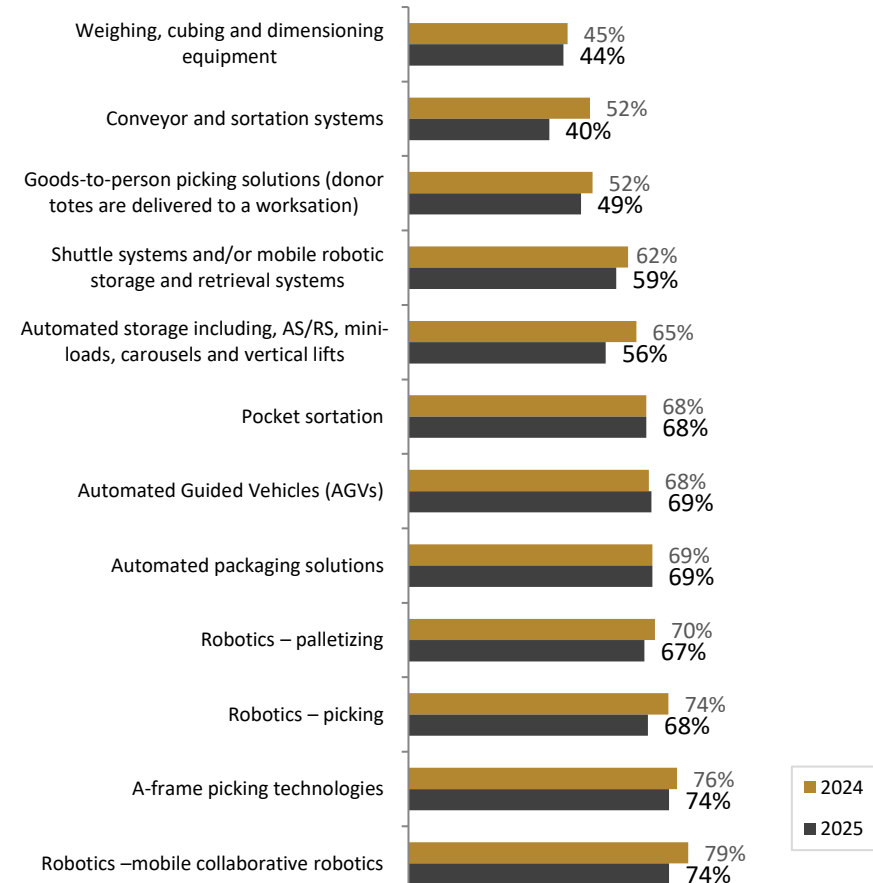


What automated equipment is presently in use in your organization and which will you be upgrading or implementing during the next 24 months?

In use

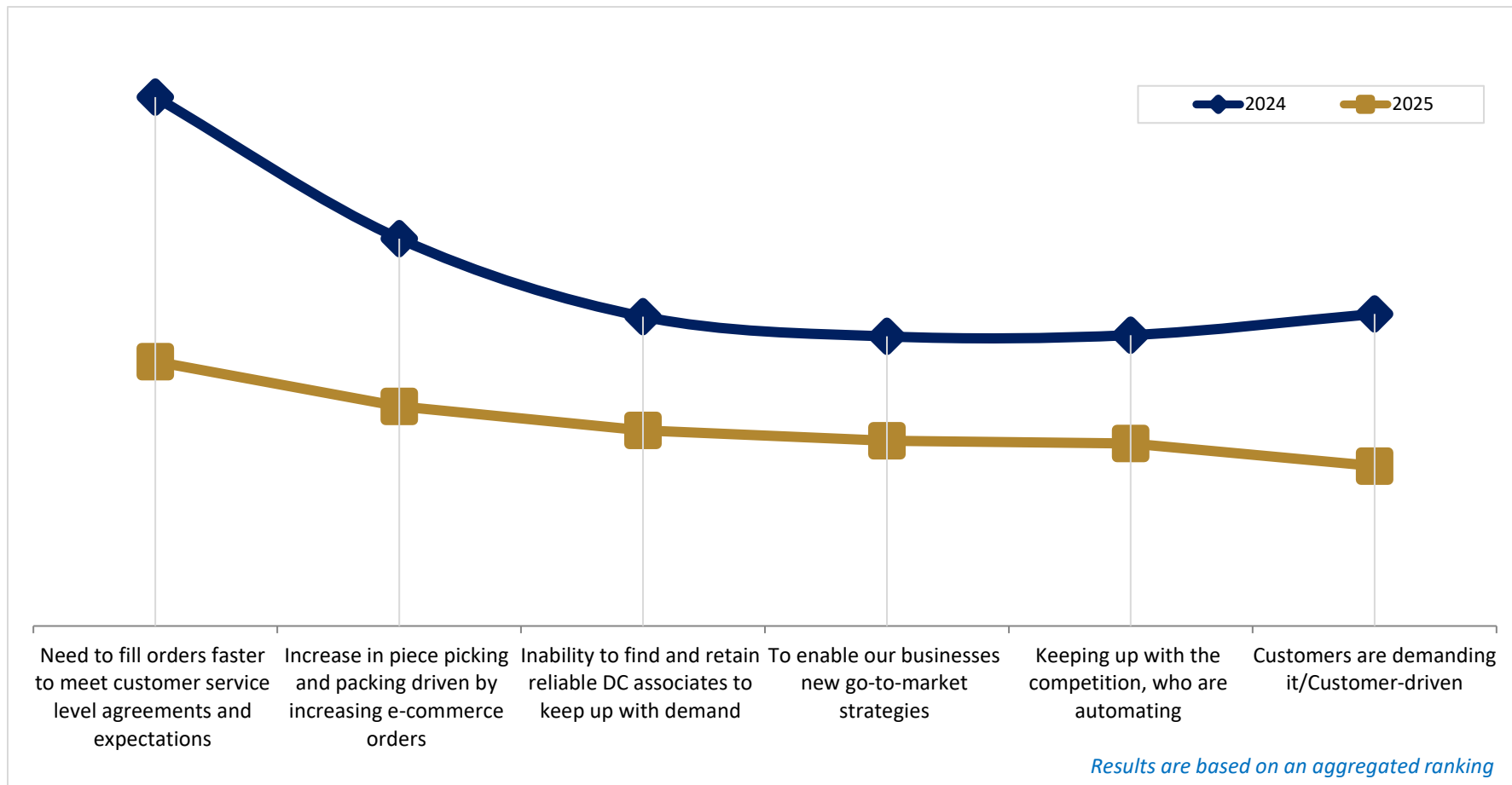


Plan to upgrade/implement





If you plan to evaluate or purchase automated materials handling equipment, technology or software during the next 2 years, please rank in order of importance reasons for your decision (please rank most important first, next most important 2nd, etc.).

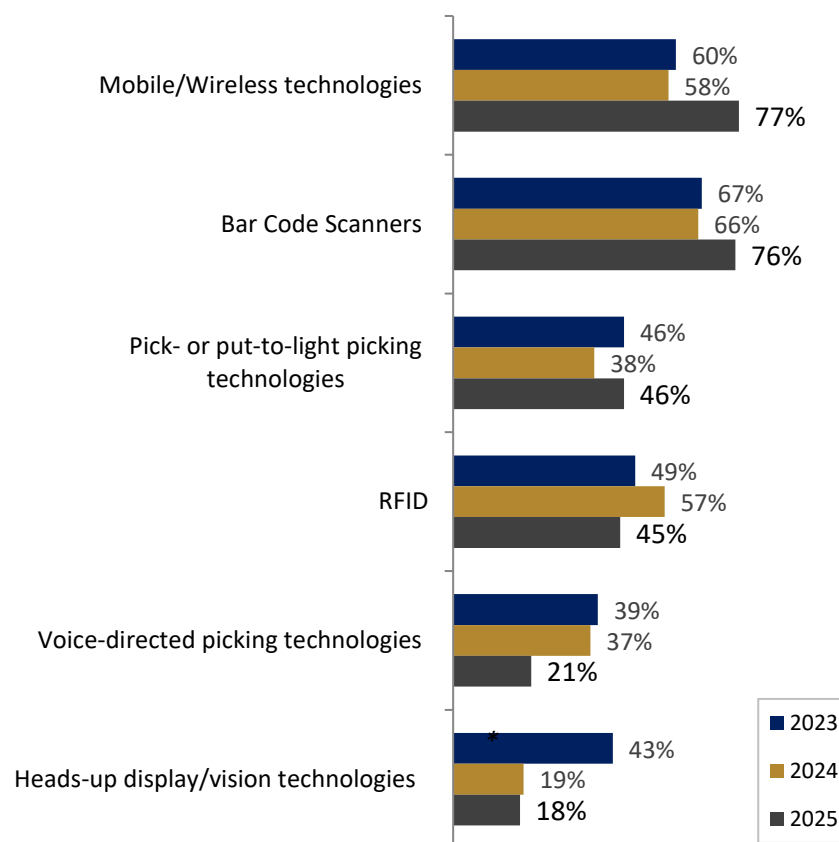


Analyze criteria based on relative ranking within each year

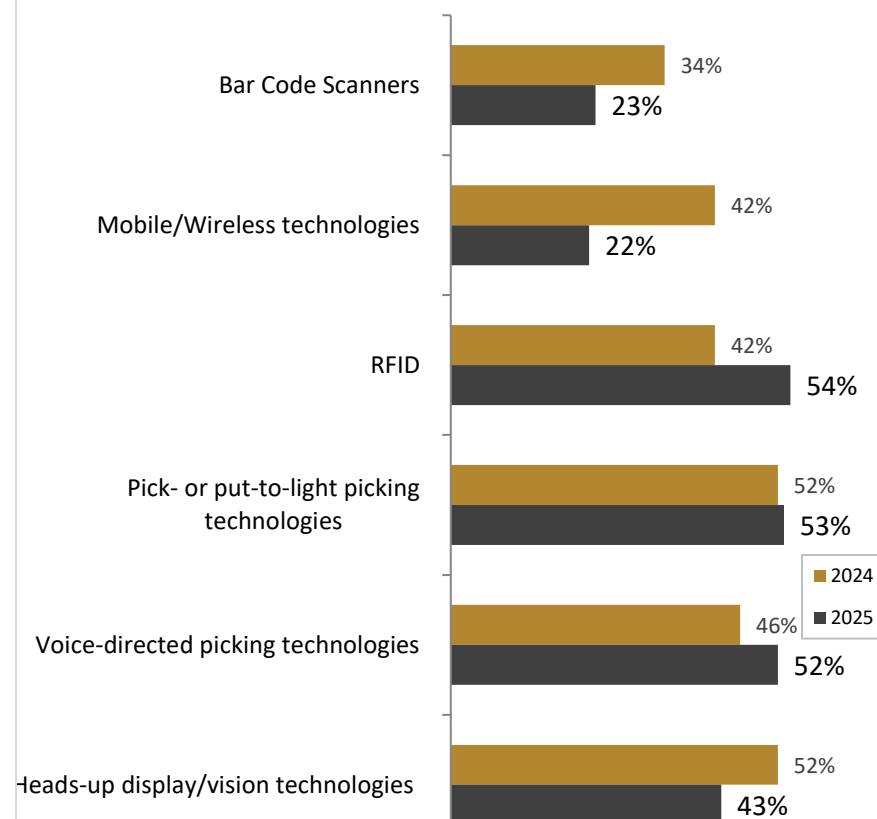


What data collection technologies are presently in use in your organization and which will you be upgrading or implementing during the next 24 months?

In use



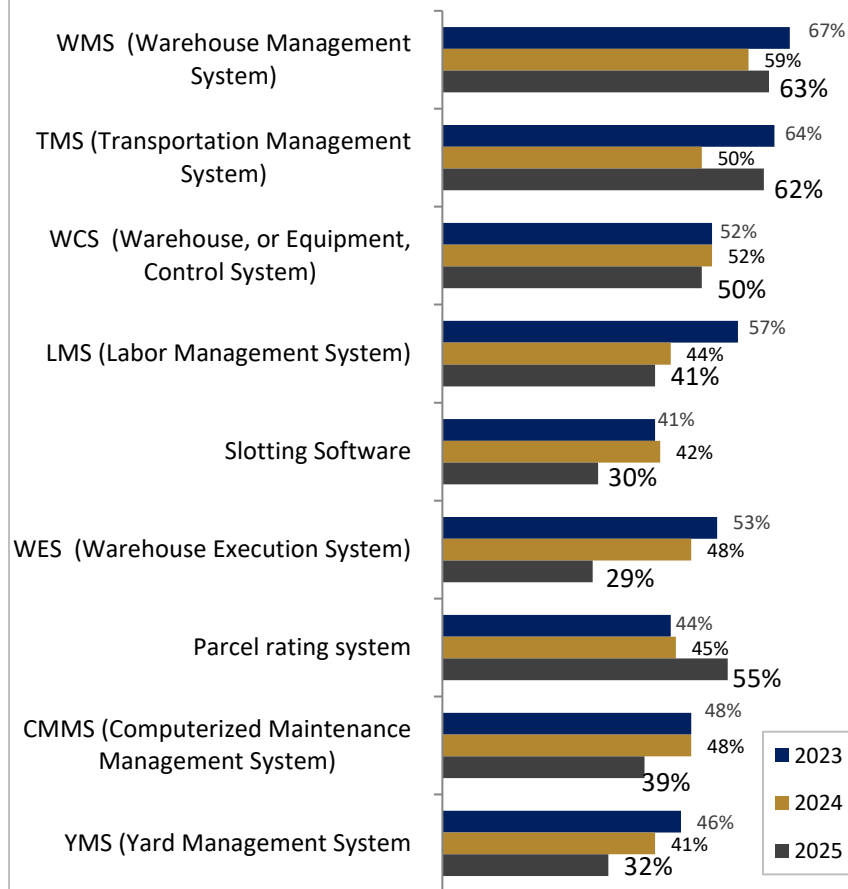
Plan to upgrade/implement



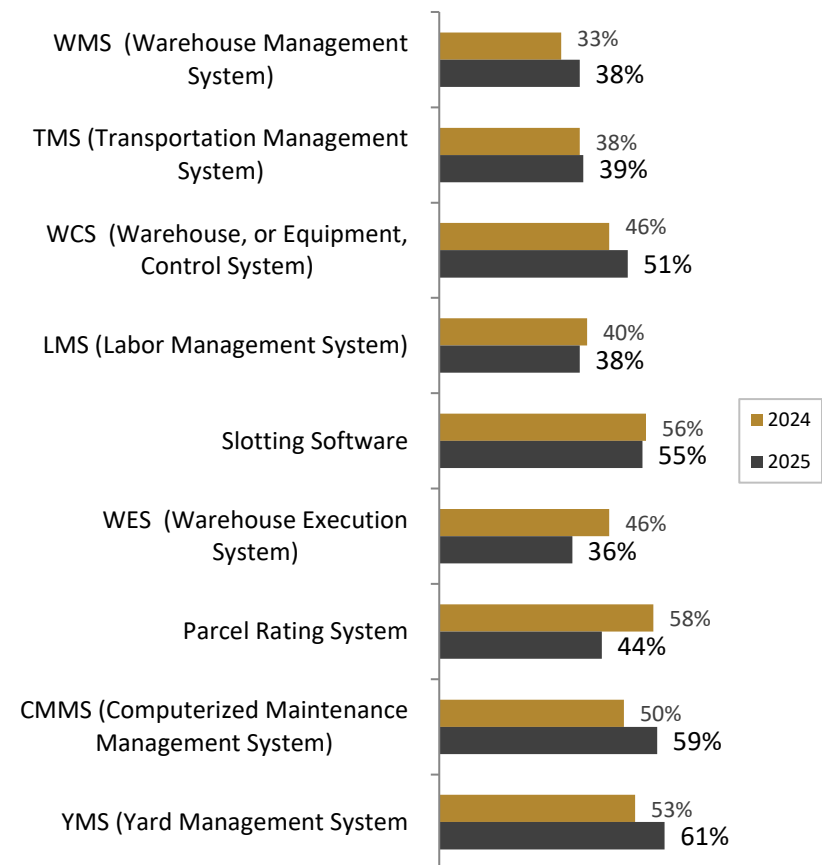


What supply chain execution software solutions are presently in use in your organization and which will you be upgrading or implementing during the next 24 months?

In use



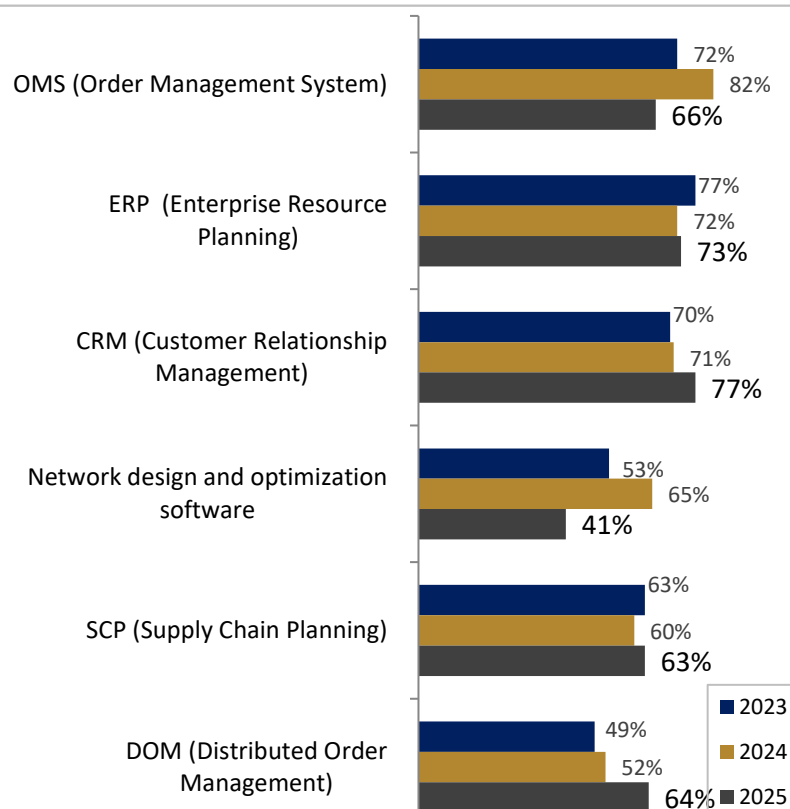
Plan to upgrade/implement



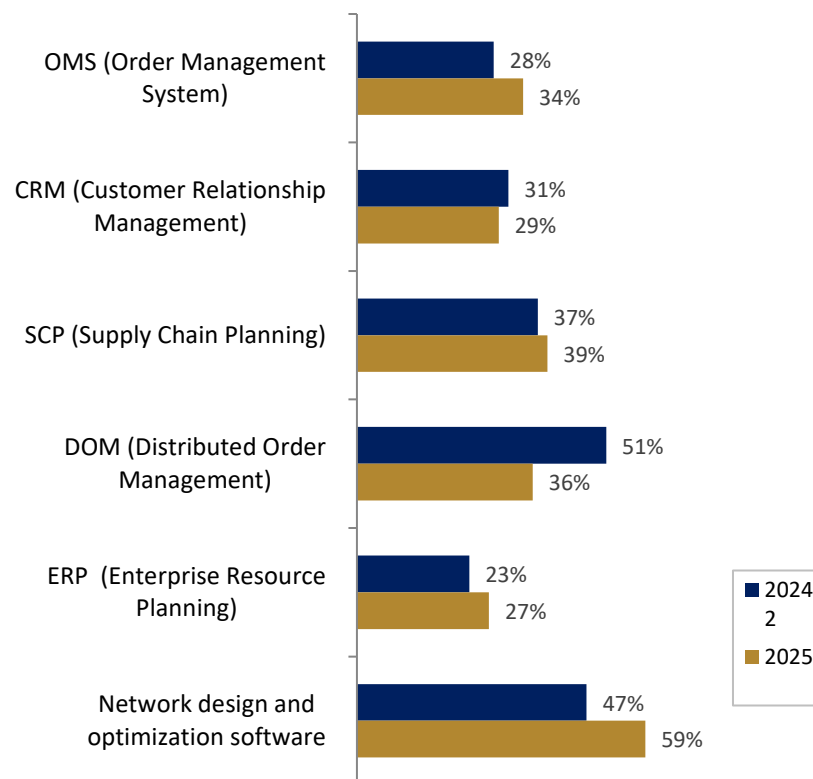


What supply chain management software solutions are presently in use in your organization and which will you be upgrading or implementing during the next 24 months?

In use

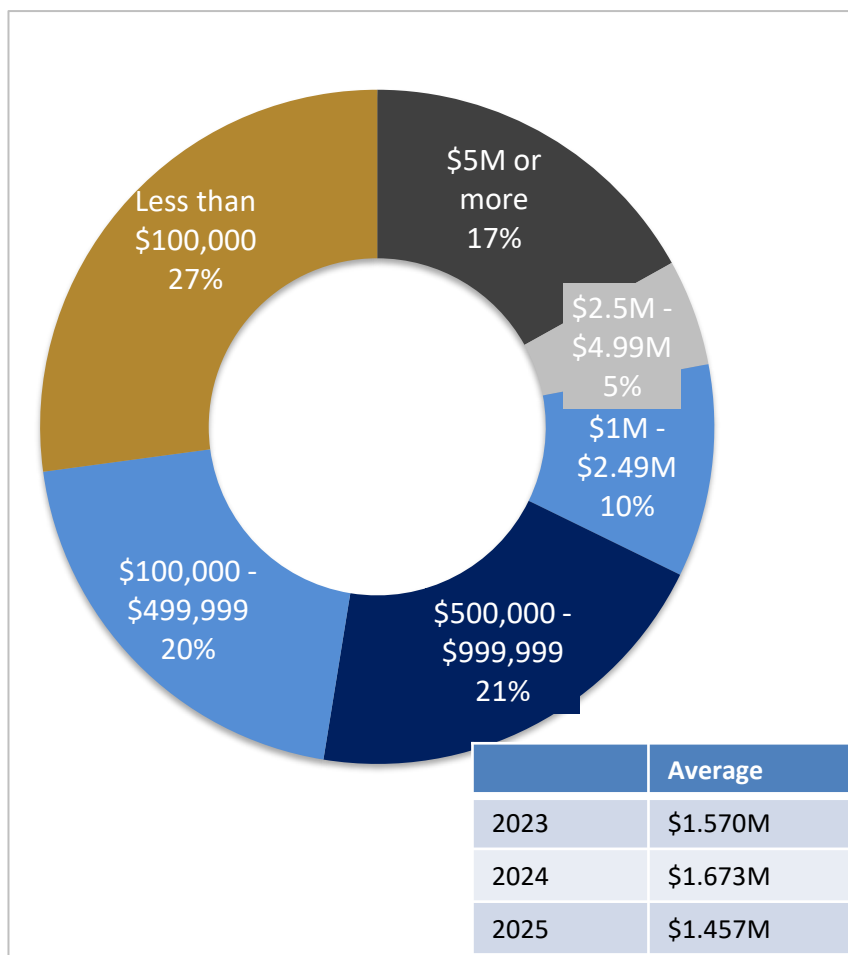


Plan to upgrade/implement

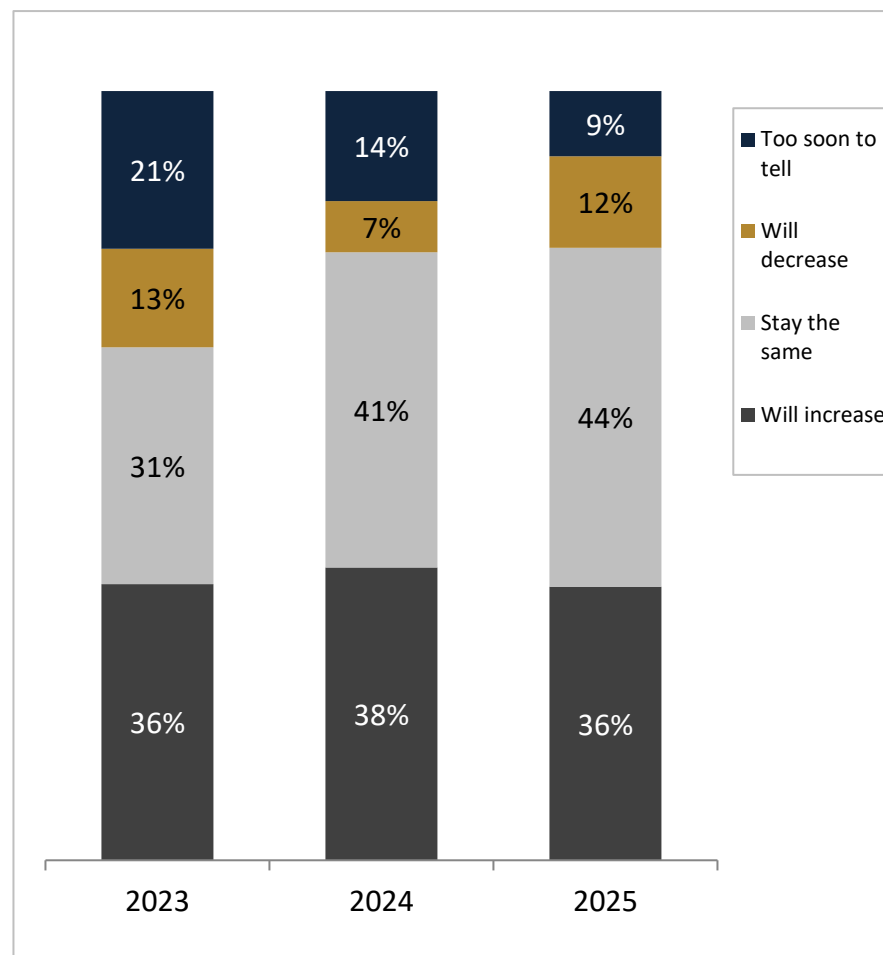




Approximately, how much do you estimate your company will have spent on all materials handling equipment and solutions in 2025?

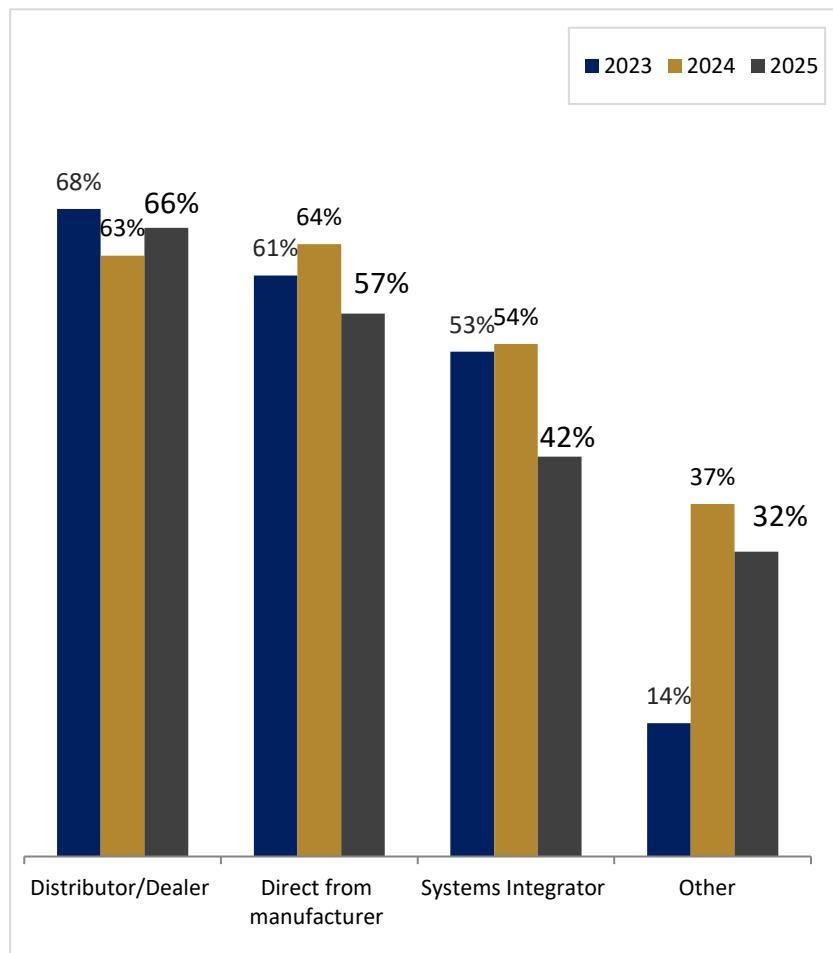


How will this compare with the amount your company will spend in . . . ?

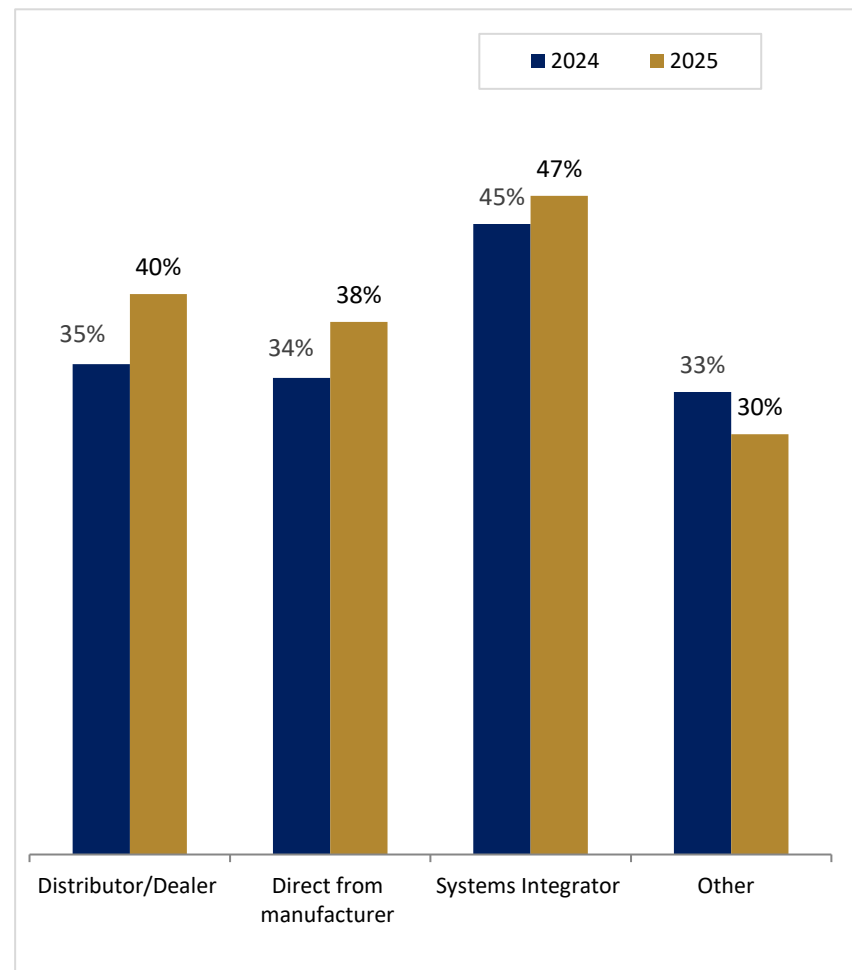




From which channel(s) do you typically purchase order fulfillment solutions?

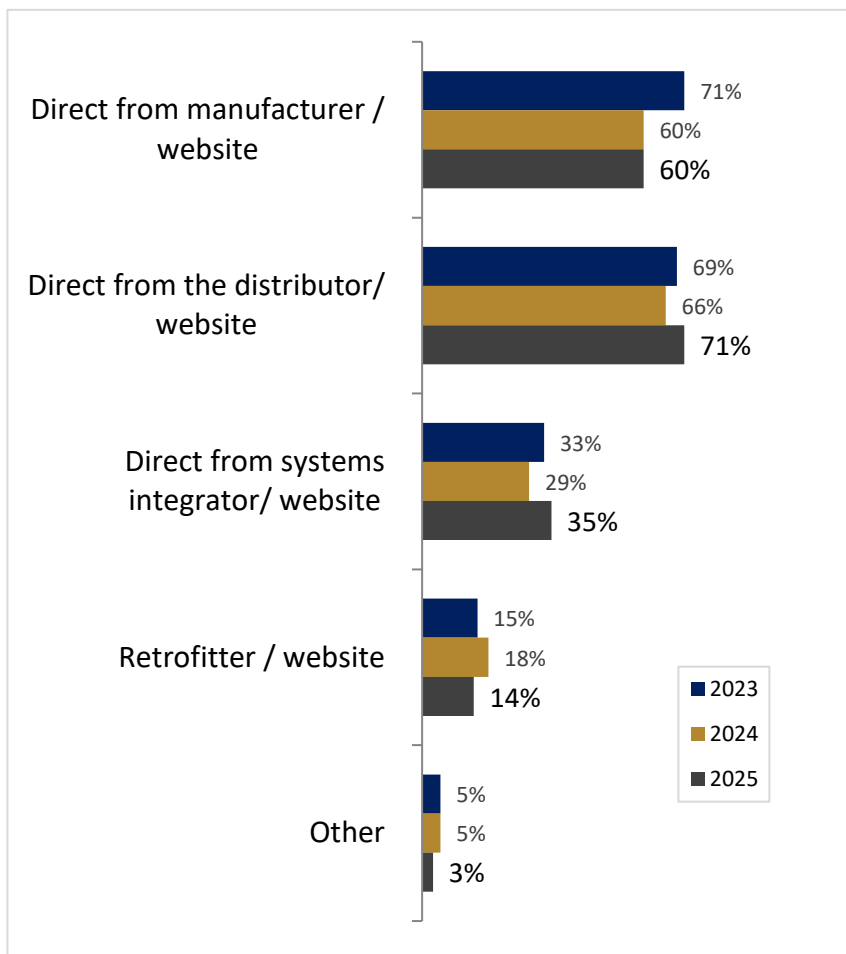


How will future purchases be made?

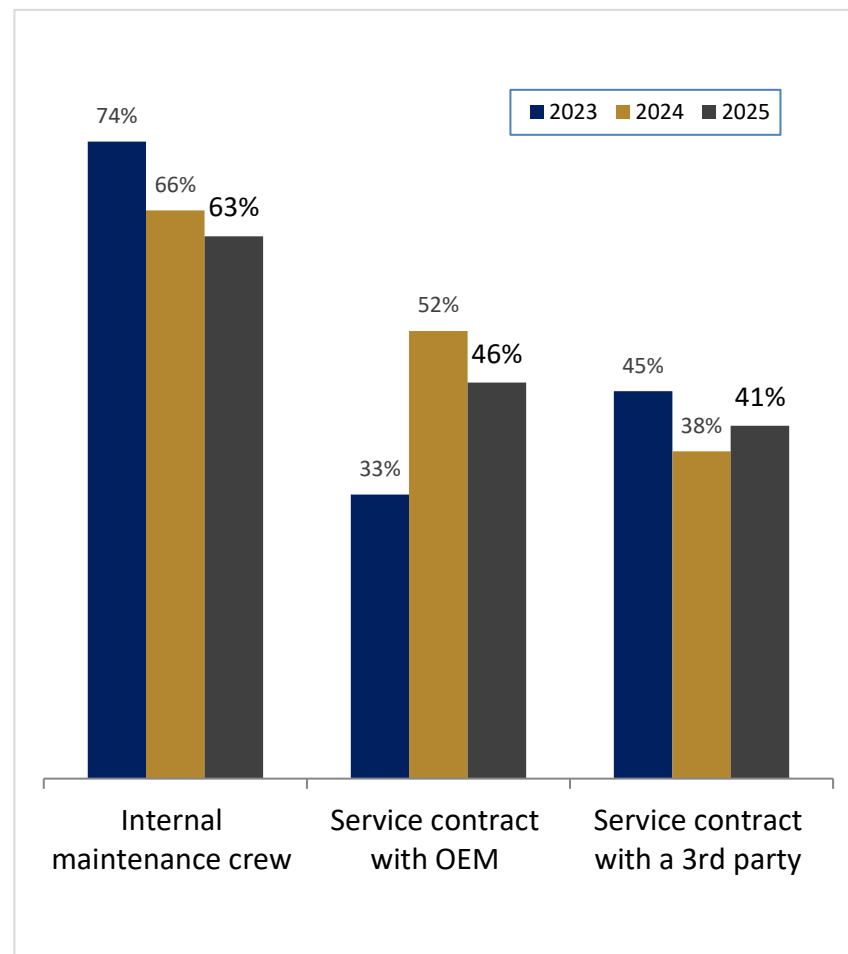




From which sources are replacement or spare parts purchased?



Who handles the repair and maintenance of your materials handling automated equipment?





Respondent Demographics

What is the total square footage of the warehouse/DC space that you influence?

	2023	2024	2025
Less than 50,000 sq. ft.	35%	24%	28%
50,000 sq. ft. –100,000 sq. ft.	26%	15%	25%
100,000 sq. ft. –250,000 sq. ft.	19%	22%	17%
More than 250,000 sq. ft.	21%	38%	30%
Average sq. feet	121,474	152,206	137,054

What is the primary activity at your location?

	2023	2024	2025
Corporate headquarters	22%	16%	19%
Warehouse supporting manufacturing	5%	15%	17%
Warehouse/distribution center	47%	44%	35%
Manufacturing	23%	20%	25%
Other	3%	5%	4%

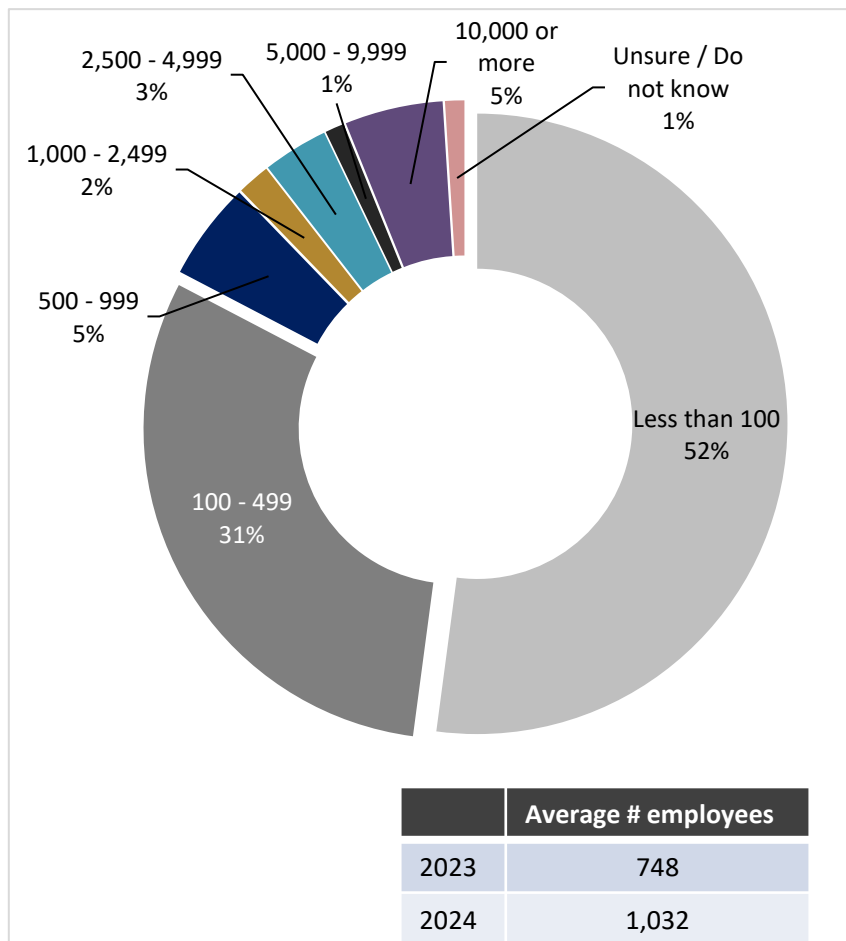
What is the primary product or service at your location?

Manufacturing	2023	2024	2025
Food, Beverage & Tobacco	11%	12%	14%
Automotive & Transportation Equipment	9%	6%	5%
Fabricated Metals	5%	4%	3%
Computers & Electronics	6%	5%	9%
Industrial Machinery	17%	12%	10%
Chemicals/Pharmaceuticals	2%	4%	8%
Paper/Printing	1%	6%	4%
Aerospace	4%	5%	6%
Electrical Equipment	11%	9%	7%
Textiles/Apparel	7%	6%	5%
Furniture	6%	8%	3%
Plastics & Rubber	10%	9%	5%
Primary Metals	4%	4%	3%
Other Manufacturing	6%	10%	18%
Non-Manufacturing			
Transportation/Warehousing Services	1%	3%	2%
Retail Trade	2%	2%	1%
Business/Consulting Services	3%	2%	1%
Wholesale Trade	1%	3%	2%
3rd Party Logistics Provider	6%	5%	3%
Other Non-Manufacturing	2%	4%	2%



Respondent Demographics

How many employees are at your facility?



Which best estimates your company's 2024 annual revenues?

