

OBSTACLES AND OUTLOOK FOR CPG

Inflation and the energy crisis are the top external barriers to growth for Consumer Packaged Goods (CPG) firms, followed by workforce issues.

The impact of inflation worries a higher proportion of respondents from CPG firms than from the cross-section of organizations surveyed for our full report. However, while supply chain disruption was second on the list of external obstacles for CPG last year, it has now dropped to fifth place — replaced by energy costs at number two.

Internally, workforce concerns take three of the top five spots — attracting, onboarding and retaining skilled employees is hampering growth. Last year's top three internal obstacles for this sector related to quality, technology, and data; demonstrating how the people challenge has rocketed up the agenda this year.



Rockwell Automation

EXTERNAL OBSTACLES

	2024	2023
1	Inflation and economic growth	Inflation
2	Energy crisis/rising energy costs	Supply chain disruption
3	Workforce	Impact of COVID-19 pandemic
4	Cybersecurity risks	Shortage of skilled workers
5	Supply chain disruption	Raw material/microchip shortage/prices
	Q. What do you see as the biggest external obstacle(s) to your organization's growth for calendar year 2024? Select all that apply.	
	Q. What do you see as the biggest external obstacle(for calendar year 2023? Select top 5.	s) to your organization's growth Base: 1353

INTERNAL OBSTACLES

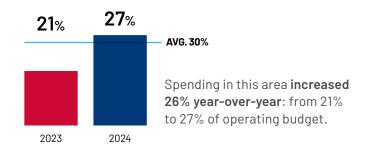
2024	2023
Worker retention / knowledge retention	Inflation
Deploying and integrating new technology	Supply chain disruption
Onboarding new employees	Shortage of skilled workers
Balancing quality and profitable growth	Impact of COVID-19 pandemic
Attracting employees with desired skill sets	Raw material/microchip shortage/prices
Capturing, understanding, interpreting, and using data to improve the business	N/A

Q. What do you see as the biggest internal obstacle(s) to your organization's growth for calendar year 2023? Select top 5.

TECHNOLOGY INVESTMENTS RISE FOR CPG MANUFACTURERS

CPG's investment in technology has risen by more than a quarter year-on-year. However, the percentage of operating budget CPG invests in technology is slightly lower than average, when compared to our cross-sector survey.

TECHNOLOGY **INVESTMENT**



ABOUT THE RESEARCH

This report is based on the responses of 158 managers and executives from Consumer Packaged Goods manufacturers in 17 countries.

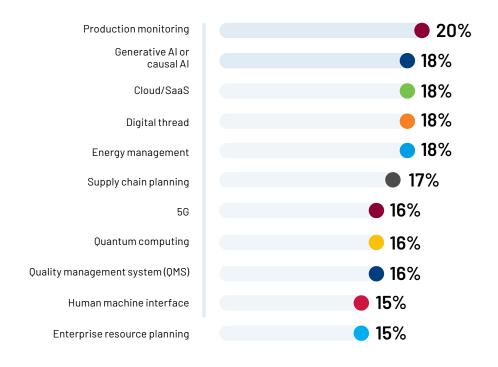
It's part of the 9th annual edition of the State of Smart Manufacturing report, which surveyed 1,567 manufacturing leaders across multiple industries.



CPG manufacturers are seeing the best return on investment from production monitoring systems — in contrast to our cross-section of industry respondents who don't include this technology in their top 5.

In line with other industries, spend on generative AI and cloud solutions are generating strong returns for the CPG sector.

BIGGEST ROI

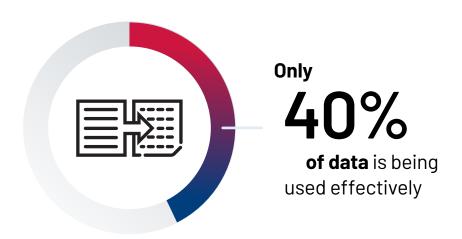


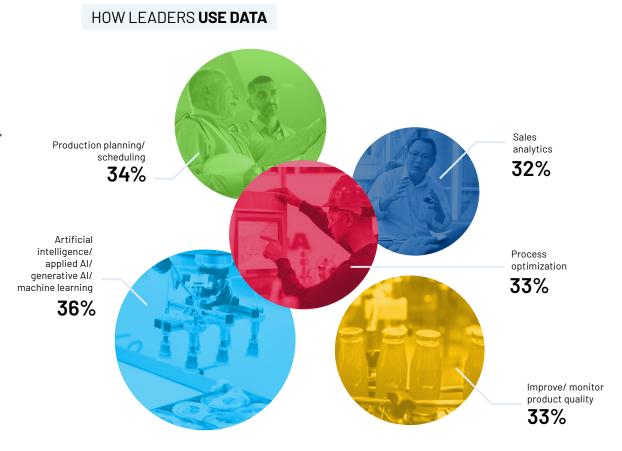
Which of the technologies that your company has invested in had the biggest ROI over the last 12 months? Select top 3.

BETTER DATA MANAGEMENT NEEDED TO **FUEL INNOVATION AND IMPROVE PLANNING**

Respondents believe that those at the forefront of this industry are using data to fuel Al and production scheduling. Leaders are also perceived to be using the data they collect to improve processes and quality. In contrast, respondents say the top way their organizations use data is for sales analysis.

When it comes to their own data, CPG respondents believe their organizations use well under half of what they collect effectively.





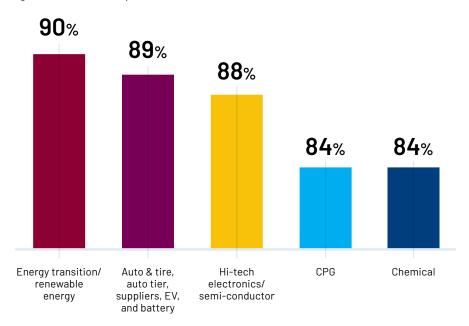
Q. How do you perceive leaders in your industry are using the data collected from their currently employed technologies, processes, connected devices, etc.? Select all that apply.



ROOM FOR IMPROVEMENT IN THE FIELD OF ESG

AT LEAST SOME FORM OF **ESG POLICY** (%)

CPG lags behind the energy, automotive, and technology sectors when it comes to implementing environmental, social and governance (ESG) policies.



Q. Which of the following best describes your organization's current efforts around ESG (Environmental, Social, and Governance/ Sustainability)? Select one.

Base: 917

The thing that matters most to CPG firms' ESG programs is product quality; this is considered more important than the top-ranked answer — energy management — given by our cross-sector respondents. Diversity, equity and inclusion rank higher for CPG manufacturers than in our aggregated industry results, where it doesn't make the top 5.

WHAT MATTERS MOST FOR 2024



Q. What matters most to your organization's sustainability/ESG policy? Select all that apply.



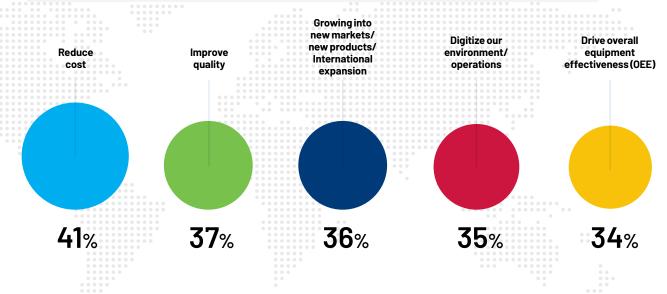
^{*} Only showing respondents from these industries

CPG FIRMS ADOPT **SMART MANUFACTURING TECH TO CUT COSTS**

86% of CPG manufacturers are using or evaluating smart manufacturing technology and most believe it will help them to reduce costs. This is in contrast to our overall survey, where quality improvement topped the table of expected outcomes.

However, cost is also seen as the main barrier to adoption of smart manufacturing in the CPG sector, followed by workforce-related issues; namely a lack of necessary skills to implement and use the technology.

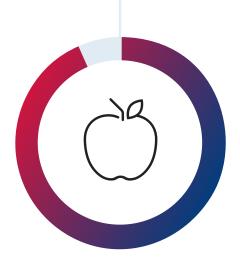
SMART MANUFACTURING IS DRIVING BUSINESS OUTCOMES **AROUND THE WORLD**



Q. What positive business outcomes are you looking to achieve from your smart manufacturing technology? Select all that apply
Base: 1567



86% of CPG manufacturers are using or evaluating **smart manufacturing technology**



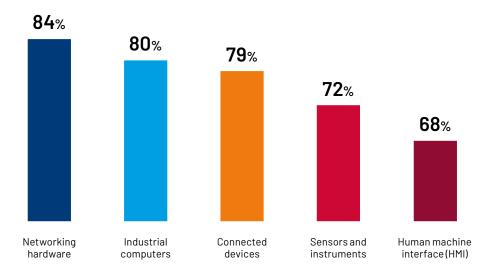
FACTORY FLOOR PROCESSES SEE MOST SMART MANUFACTURING ADOPTION

PERCENT OF **SMART MANUFACTURING ADOPTION**

HARDWARE

SOFTWARE

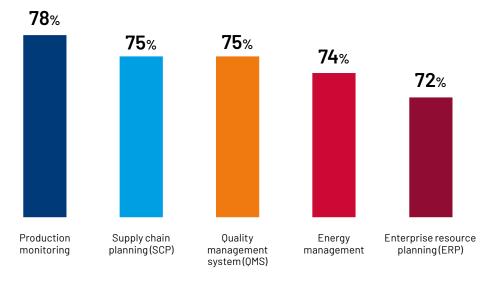
Manufacturers are upgrading their networking infrastructure and investing in more industrial computers and connected hardware devices to capitalize on advancements in connectivity.



Q. Which of the following smart manufacturing hardware/smart devices has your company adopted or has plans to adopt?

Base: 1567

In terms of software adoption, respondents favor modular, scalable smart manufacturing solutions for tasks such as production monitoring and quality management that can be deployed quickly at a lower cost than more highly complex, rigid legacy systems.



Q. Which of the following smart manufacturing software solutions has your company adopted or has plans to adopt?



BUILDING A WORKFORCE WITH A BALANCE OF SKILLS

CPG employers are looking for a combination of technology knowledge and 'softer' skills to build a strong workforce over the next twelve months. The importance of employees finding purpose in their roles is felt more strongly here than in our cross-sector responses, where it ranked sixth.

Manufacturers recognize that supporting their workforce through an era of seismic change will be crucial for success; respondents say **training for new processes**, **and change** management, will be the biggest workforce-related obstacles over the next 12 months.

SKILLS EMPLOYERS ARE SEEKING



Q. Over the next 12 months, how important are the following knowledge and/or skills as your organization recruits its next generation of employees?

Base: 1567

Employee retention retention 27% 28% Rising cost of labor/ Change skilled staff management 27% 31% Employee engagement Training current employees on 30% updated processes 34%

More than 1/3

WORKFORCE-RELATED OBSTACLES

Knowledge

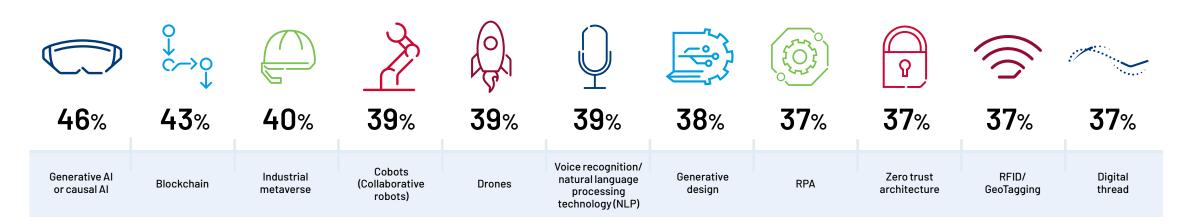
rated training employees on updated processes as the top obstacle when it comes to the workforce.



AI AND BLOCKCHAIN TOP PLANNED TECH INVESTMENTS

The top technology investment for CPG in the coming year will be generative or causal AI — the same finding as in our main report. However, where other industries are yet to see the potential in blockchain, it's the second most popular planned investment for CPG, pointing to the benefits it can bring in tracking and verifying consumer goods.

TOP 10 INVESTMENT AREAS OVER THE NEXT 12 MONTHS



Q. Which of the following technologies has your company invested in? Respondents selected: Plan to invest in the next 12 months from four options.



LOOKING TO THE **FUTURE**

The concerns around change management which surfaced elsewhere in this report reappear when we asked CPG manufacturers about future leadership obstacles. **Effectively managing people and resources and resistance to change are the top barriers in this area.** The importance of being able to lead an organization through change is seen as more critical for CPG than in the full cross-sector report, where it sits outside the top 5.

TOP 5 LEADERSHIP OBSTACLES

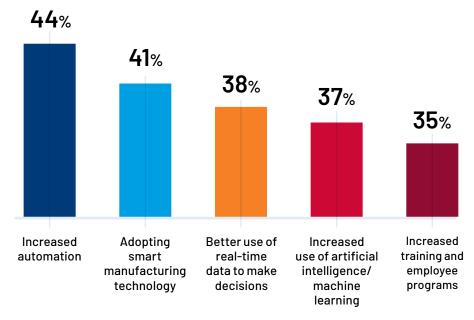


This data represents the top 5 leadership obstacles that will be faced in the next 12 months for CPG.

Going forward, CPG manufacturers are targeting strategies that will help them retain, upskill and engage the workforce in order to thrive and grow. Technologies that complement and augment the value brought by people — such as smart manufacturing technology and automation — are where they see positive business outcomes being created.

Despite the ongoing planning and workforce challenges, there's reason to be positive for those leaders who focus on the benefits to be had by technology when it's thoughtfully applied by an engaged and inspired workforce.

HOW CPG MANUFACTURERS ARE PLANNING TO DRIVE FUTURE SUCCESS



0. How do you plan to drive positive business outcomes over the next five years? Select all that apply.



