

# Automation in procurement: Your new workforce is here

Five steps procurement organizations can take to create a partnership between bots and employees to achieve optimal efficiency and quantifiable benefits

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# The evolution of the procurement organization

Your new procurement employee will work 24/7, never call in sick, rarely make mistakes, won't complain, and never ask for a raise. Of course, this is not your typical worker, but a procurement software robot-or "bot."

When it comes to procurement, the automation of processes and the adoption of digital procurement technologies have been advancing for a number of years. Source-to-Pay technology solutions have streamlined and automated many of the tactical activities involved in procurement. However, many activities that can best be described as "transactional" or even "swivel chair" remain, and jobs involving advanced analytics suffer from data gaps, system gaps, and resource gaps.

Leveraging procurement bots is the next logical step as organizations look to benefit from advancements in digital capabilities.

Like every transformative technology, the implementation of procurement bots, while exciting, is not without challenges.



Since these bots will likely directly affect the procurement workforce, the chief fear among workers is that their jobs will be eliminated. Businesses have been through many cycles where such concerns were raised: reengineering, ERP implementation, and outsourcing, among others. However, because the implementation of bots is new to the procurement organization—and is futuristic-sounding many employees do not know quite what to make of it, only intensifying their apprehension.

Given these concerns around bots, it is essential that companies pursue a comprehensive change management program to develop the best strategy for both the larger business picture and the welfare of their workforce. This change management program must begin with leadership and include all stakeholders throughout the organization.

Transparency is also crucial, so employees can understand the extent of the changes bots will bring and how their day-to-day activities will be different in the future. Employees must be shown the benefits bots can bring to their jobs. For example, one of the main selling points of procurement bots is that they will free workers from repetitive, manual tasks. Moreover, the automation of myriad existing procurement processes will provide the opportunity for companies to invest in the development of their personnel outside of their current responsibilities. These new capabilities may include the management of the new automated processes that have replaced manual processes or a move into a more creative position, one with fewer tedious or mundane tasks.

While the displacement of workers will not necessarily be a part of every implementation of bots, it is inevitable that the transition to a highly automated procurement organization will likely result in the elimination of several classes of jobs. In these instances, companies must demonstrate that affected employees are supported and treated fairly.

The impact of procurement bots on business stakeholders should be considered as well. Will those stakeholders fear that procurement professionals they regularly work with will no longer be there? Will working with a bot require them to learn how to use new software?

To gain a better understanding of these issues, we will look at the growing use of software bots by today's forward-thinking companies and outline how bots can work within the procurement organization. We will also offer five steps that procurement officers should take to facilitate the success of a bot implementation.

In many ways, bots are part of a natural development of the workforce, just as assembly lines and mechanical automation improved the efficiency and effectiveness of manufacturing. But success will only come if humans can see bots as their partners, not as competitors.



### **Companies are** adopting RPA

RPA is being used across all industries and in a variety of areas. Here are just three examples of companies that have already adopted RPA to processes within their organizations.

- A leading global energy provider automated its upstream goods receipt and issue process using procurement bots. The bot helped the company maintain an accurate accounting and inventory of goods flowing in and out of its warehouses and save thousands of work-hours spent on manual goods receipt and issue process.
- An Australian bank is using RPA for invoice processing, payroll administration, complaint management, and other areas that have monotonous, timeconsuming activities. In one area of payments, the bank said it used RPA to reduce the number of human staff from 40 to 2.
- An American multinational telecommunications corporation is using process automation to help finance employees evaluate the business case for technology projects. Instead of manually pulling information from different systems, the company is using bots to perform time-consuming tasks on analysis—and do so much faster than usual.
- An American provider of health insurance is using automated technology and its language processing, hypothesis generation and machine learning components to make the insurer's health care utilization management functions more efficient, effective, and consistent.

https://blogs.wsj.com/cio/2016/05/15/att-employeesautomate-repetitive-tasks-with

https://www.forbes.com/sites/bruceupbin/2013/02/08/ibms-watson-gets-its-first-piece-of-business-inhealthcar5c192f345402

# Growing popularity

Despite the challenges of integrating bots into the existing workforce, organizations are finding that the benefits of bots are increasingly harder to ignore. Robotic Process Automation (RPA) has quickly become one of the new buzzwords, and its rapidly growing popularity should not be surprising.

In today's increasingly competitive environment, RPA can offer savings on labor costs and offer increased efficiency and accuracy. Cost takeout through automation is much higher (40-75 percent) compared to labor arbitrage (15-30 percent).1 It can help bridge skills gaps as well as improve quality and reduce errors. At its more sophisticated levels, it can enable faster decision making. For these and other reasons, RPA is experiencing a rapid adoption in many organizations and fundamentally changing the way business is done. Today, the new normal is fewer less-experienced workers to deliver the same amount of work. Consider these statistics:

- The global market for robots and artificial intelligence is expected to reach \$152.7 billion by 2020.2
- According to Quid, from 2010 to 2014, private investment in artificial intelligence grew from \$1.7 billion to \$14.9 billion.
- Research from The London School of Economics suggests a return on investment in robotic technologies of between 600 percent and 800 percent for specific
- McKinsey research suggests that smart robots will replace more than 120 million knowledge workers by
- Gartner predicts that by 2020, smart machines will be a top-five investment priority for more than 30 percent of chief information officers.
- 55 percent of North American enterprises are looking at new opportunities available with RPA systems, according to a study by HfS Research and KPMG.4

As CPOs come under increasing pressure to seek ways to foster

meaningful improvements to their company's procurement processes, RPA will be seen as an increasingly attractive means to gain efficiencies and reduce costs.

- The Outsourcing Institute, "Three Secrets Your Traditional Service Providers Are Note Telling You," June 2014 KPMG analysis.
- 2 "Robot Revolution—Global Robots & Al Primer"—Bank of American Merrill Lynch 2015
- "LSE The IT Function and Robotic Process Automation"—The London School of Economics and Political Science 2015
- "Achieving Value Beyond Cost"—HfS Research and KPMG LLP 2015



## The robotic workforce

The use of bots to automate procurement processes can be hard to visualize, especially since much of the activity typically takes place "behind the scenes." So, before discussing the details of a change management effort, it may be useful to first take a look at how bots can be deployed within an organization.

Every company has any number of back-office systems that require workers to perform manual, repetitive tasks. These include reviewing and verifying information that has been entered into a system (such as requisitions), copying information from one system to another, rekeying information, contacting other employees or suppliers to request additional information, or filling out spreadsheets drawing from multiple inputs. These activities can take a large percentage of a worker's day and, as such, are a costly expense.

Basic bots are designed to take on these lower-level, rules-based, and repetitive tasks common within procurement organizations. Essentially, the bots lie on top of the organization's legacy systems, typically working in the background; although, some will have an interface so

people can interact with them. As for the workers whose activities these "bots" automate, they will now be free to focus on more strategic initiatives.

More advanced bots can execute complex cognitive tasks that mimic human behavior. In its most advanced form, bots can interpret vast amounts of data from multiple structured and unstructured sources, including text, voice, images, and video. These bots can evaluate information and use specific algorithms and ontologies to simulate reasoning make decisions based on a mix of evidence and probability—in a way that would mimic human actions. These bots can work alongside procurement professionals to streamline and improve some of the organization's most strategic activities, such as category management and supplier management. They can spot patterns in spend and operations, proactively seek market intelligence on suppliers and categories, and even provide coaching to both procurement and business users on the ins and outs of process and policies. While it is unlikely such bots will completely replace "strategic" procurement personnel, they will likely improve the efficiency and quality of the processes those personnel support.



# Applying change management to the implementation of bots

Once the decision has been made to implement bots within procurement, organizations must turn their attention to creating an effective change management program to ease the transition into the workforce. To successfully incorporate bots within processes and teams, organizations must proactively address the impacts to their people and the overall organization in order to minimize business disruption and expedite the realization of business benefits.

Here are five steps procurement professionals should consider when contemplating deploying bots within their organization:

### 1. Agree on the future vision for the organization

Even if bots are implemented initially only in procurement, there will be repercussions throughout the organization as certain human exchanges between departments are transitioned to a human-to-bot interaction. herefore, it is vital that leadership is onboard with the implementation. Leaders often need assistance to envision the future digital workforce.

Therefore, procurement professionals need to be able to argue a convincing business case for their bot strategy and outline their vision for the future.

Leadership, in turn, should be able to articulate its robotics vision and how bots will influence the company overall, including changes in workforce, operating models, infrastructure, and management. This will also necessitate leadership alignment around the timing, readiness, and scope of the robotics initiative.

### 2. Actively manage the change of digital procurement

To improve the chances of a successful implementation, several change management activities are required to be executed.

Our proactive and phased methodology is about getting stakeholders ready, willing, and able to change:

Make it clear	Make it known	Make it real	Make it happen	Make it stick		
Align leaders around the strategic aims, ambition, and scale of change and how this impacts behaviors and ways of working.	Communicate the change vision and case for change and begin to create ownership of the solution.	Translate change vision into reality for people in the organization and define what it means for them.	Move the organization towards the end state and equip people to work in new ways.	Ensure there is capability in the organization to sustain the change.		
Clear	Aware	Ready	Willing	Able		
Change leadership						
Communication and engagement						
Impact and measurement of change						
Workforce development and transition						



### 3. Implement an adaptive workforce alignment for evolving digital needs

While worker displacement will not necessarily be a part of every bot implementation, clearly, in some cases, bots will replace human employees. These cases will likely increase as the role of bots is expanded and as processes are redesigned to take advantage of the automation.

To reap the full benefits of these changes and ensure they are implemented successfully, procurement leaders should engage HR early on to discuss their evolving workforce. To aid in this process, procurement officials should advocate that HR deploy strong organizational design tools to help reshape their new workforce and confirm the benefits realized from digital labor.

### 4. Plan for talent hiring, reskilling, and exiting talent

Plans for an initial implementation of software bots is only the beginning. Robotic process automation is a constantly evolving area, with each generation of bots being able to take on an increasing variety of ever more sophisticated human tasks. Given that evolution, deploying bots is a good opportunity to evaluate the company's long-term talent management program.

As part of the change management plan, procurement officials should include proactive talent management strategies that address not only short-term workforce implications but also future talent needs. Organizations must proactively analyze their workforce and forecast for the type and number of workers needed in the future, as well as the skills they will require, and develop workforce plans to bridge critical talent gaps for both existing and new employees.

### 3. Adopting and adapting to the new ways of working

Given the new relationship between humans and bots, changing behaviors among employees will inevitably present challenges. A successful bot implementation is the start of a long journey of changing perceptions. Procurement professionals will want to ensure there are capabilities within the organization to sustain the change and ongoing improvement efforts.



# The KPMG experience with bots in procurement

KPMG is an industry leader in automation.

### KPMG is using digital labor to transform how our clients operate.

#### **Enable efficiency through full** robotization life cycle



We have assisted multiple clients to create, implement, and execute a well-developed RPA road map for value realization.

We have supported clients through the building of RPAs, nderstanding the impact to affected takeholders, and rolling out solutions on a global scale.

### Solve business issues through digital labor



KPMG has applied digital labor technologies to pervasive finance Organization issues, forever changing how our clients conduct these activities and continue to evolve.

KPMG's People and Change practice has significant experience helping clients across most industries and of various sizes address their most pressing people issues.

### Define new ways of working through cognitive automation



Working in an exclusive arrangement with IBM Watson, KPMG is working to solve industry problems and reinvent how we serve our clients.

### KPMG's digital labor thought leadership



The creative CIOs agenda: Getting started with digital labor



Digital labor and the future of finance



RPA & cognitive automation in healthcare



Transforming business models with **RPA** 



Bots in the back office: The coming sprint of digital labor

### **KPMG's digital labor credentials cover multiple industries.** More than 600 bots have been successfully deployed

Client	Industry	Scope	Maturity
Multinational motion picture studio	Media/ entertainment	<ul> <li>Automation assessment of 98 finance processes</li> <li>Proof of concept on the intercompany process</li> <li>Technology vendor assessment</li> </ul>	Assessment, proof of concept
Multinational telecom companies	Tele- communications	<ul> <li>COE design</li> <li>Change management</li> <li>Bot design and build</li> <li>Bot QA</li> <li>Infrastructure and architecture support</li> <li>Training</li> </ul>	Mature
Multinational beverage manufacturer	Food and beverage	<ul> <li>COE design</li> <li>Change management and comms</li> <li>Bot design, build, and test</li> <li>Functional and technical design</li> </ul>	Mature
Multinational life sciences companies	Life sciences and healthcare	<ul> <li>Functional and technical design specification</li> <li>Proof of concept</li> <li>Pilot deployments</li> <li>Chat bots proof of concept</li> </ul>	Proof of concept, pilot
Large commercial banks	Banking	<ul> <li>Automation of customer onboarding compliance</li> <li>Extraction of unstructured data and NLP</li> <li>Risk assessment prioritization</li> <li>Proof of concept</li> </ul>	Pilot
U.S. utility companies	Energy and utilities	<ul> <li>Process decomposition mapping</li> <li>Automation opportunity analysis</li> <li>Automation strategy development</li> <li>Chat bots proof of concept</li> </ul>	Proof of concept, pilot, and beyond
World's largest retailer	Consumer retail	<ul> <li>Digital labor blueprint and road map</li> <li>DL governance model for global shared services</li> <li>Evaluation of technology platforms</li> <li>Bot build for finance and HR processes</li> </ul>	Mature

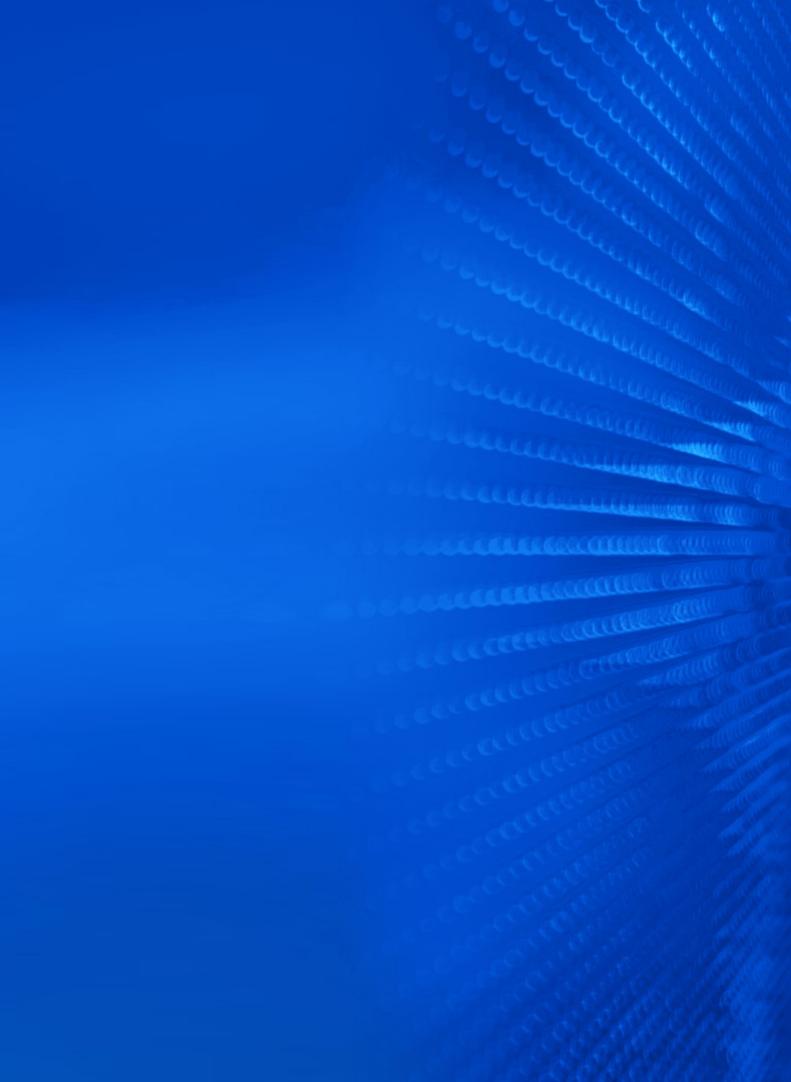


# Final thoughts

The implementation of bots in the procurement organization is an increasingly attractive option for CPOs to gain efficiencies and reduce costs within their procurement organization. However, bots will also fundamentally transform the way organizations work now and in the future.

Past major initiatives such as EDI, e-procurement, and procurement outsourcing dramatically reduced the transactional workload, freeing up labor to focus on other higher-value activities. In many cases, procurement staffing remained flat or decreased even while procurement expanded its scope of influence and services to the organization. The adoption of bots in procurement may follow a similar course, enabling valuable new procurement services and capabilities, expanding influence and value, all while keeping headcount flat or even reducing headcount. In anticipation of these changes, employees are likely to fear this innovative technology and the effect it will have on their jobs.

But bots do not necessarily have to cause this anxiety among a company's workforce. An effective change management program around bots can go a long way to allaying these fears. This includes the clear articulation of leadership's vision around bots and their benefits, transparency and support around workforce displacement, and the careful management of a cultural shift so workers can see bots as an opportunity and not a threat.



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