

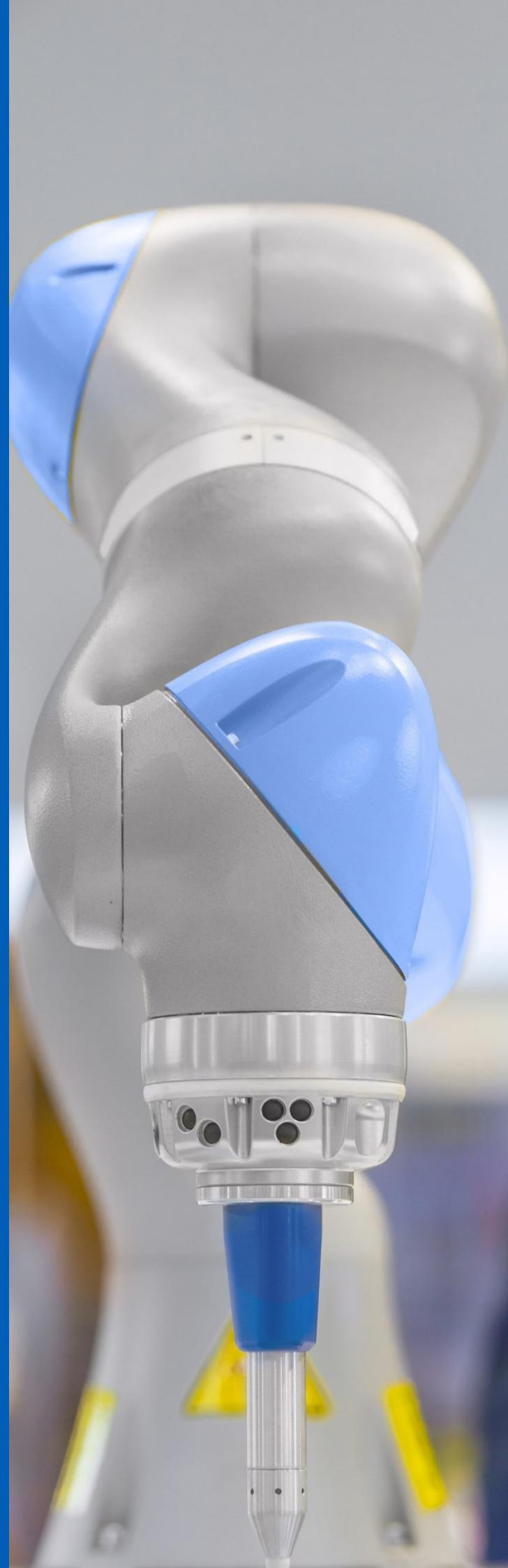


Accelerating Automation

Plan your faster, smoother journey

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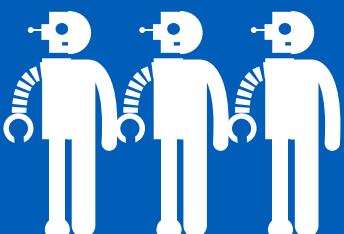


Introduction: See the future. Get there faster.

Robotic process automation is set to transform our lives. For business services, it promises huge gains, including lower costs, better market insight and an improved customer experience.

An estimated

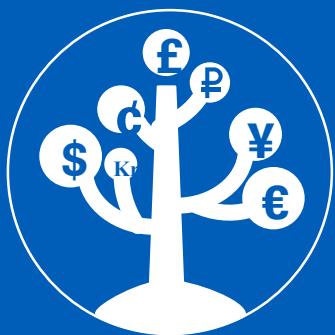
100 million



global knowledge workers impacted by automation by 2025 ⁽¹⁾

60.5%

compound annual growth in robotics automation market forecast by 2017-20 ⁽²⁾

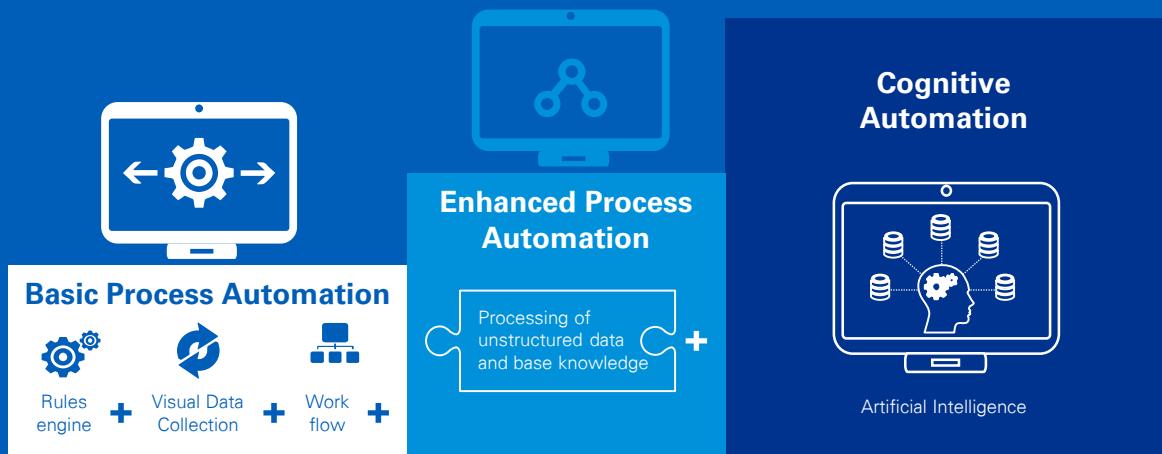


More than
55%



of global corporations currently exploring new automation opportunities ⁽³⁾

As a result, many organisations are already using basic Robotic Process Automation (RPA) to carry out simple, rule-based tasks to make themselves more productive.



To realise the benefits of automation faster, many organisations want to understand how to accelerate the automation journey. At KPMG, our experience shows us planning should follow four principles.

- 1 Business led, technology enabled
- 2 Use RPA to deliver productivity and as a stepping-stone for enhanced process and cognitive automation delivering transformational change

- 3 Start small, execute well and scale up rapidly
- 4 Develop an internal automation capability to sustain progress

The automation journey - types and benefits



Basic Process Automation

Basic process automation technologies address simpler processes that follow very explicit 'rules-based' manual steps, often leveraging multiple systems (e.g. order entry). These automation tools often reside on the desktop resulting in shorter integration times and a faster path to automation.

Examples



Activities such as journal entry, MI reporting, reconciliation activities, ordering, billing and commercial operations



Basic process automation technology used by customer centres to automate tier 1 enquiries (e.g. changes to supplier addresses).



Enhanced Process Automation

The next level is enhanced process automation – with built-in knowledge and natural language processing, capable of analysing unstructured data. This often includes 'starter automations' right out of the box for activities such as IT operations and finance.



Machine learning software, designed to support customer on-boarding, transaction monitoring and fraud prevention by identifying patterns in behaviour that could indicate fraudulent payment activity.



Natural language processing software used by some international banks to monitor internal communication and identify potential misconduct with regards to trading compliance.



Cognitive Automation

Cognitive automation is the most recent entry into the digital labour space. It includes cognitive machine learning, artificial intelligence, language processing and big data analytics and creates sophisticated cognitive technologies that think and learn like humans.



Artificial intelligence deployed by a global bank to deliver personalised advice to the bank's wealthy clients. The technology models 85 million behavioural patterns to show potential matches with different types of wealth management products.



Artificial intelligence used by crop insurance providers. Used in combination with aerial drones to photograph crops, AI helps insurers evaluate crop health and assess claims accurately, and provide support to farms to help them maximise yield by detecting problems early.

Different types of automation offer different types of potential benefits.



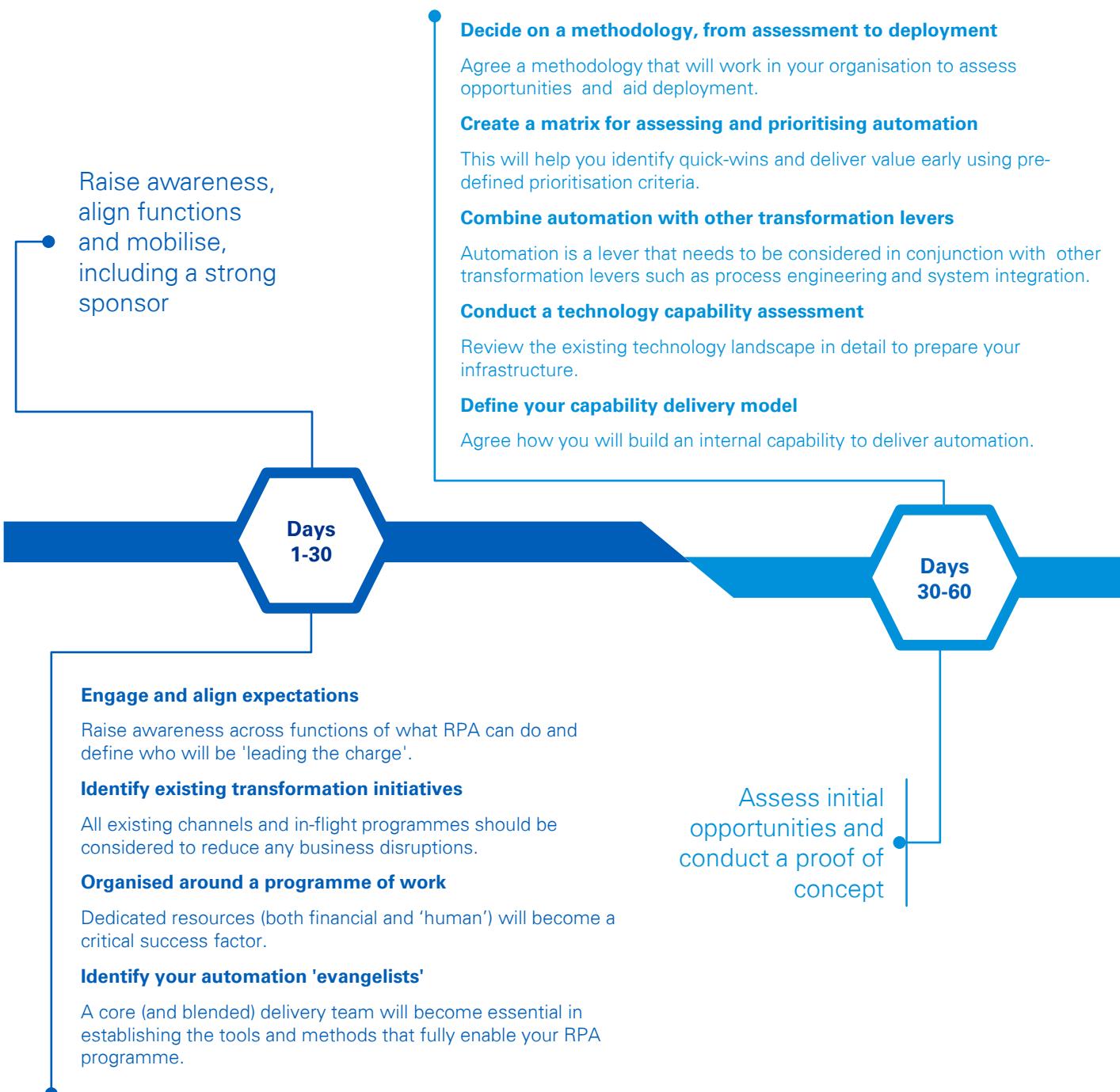
Rethinking myths around automation

Misconceptions about automation can delay the automation journey or dilute the potential benefits. Will mistaken beliefs about automation slow you down?

-  **“Implementing a ‘bot’ will improve productivity significantly”**
1 Yes, but delivering savings is often more complex than expected e.g. implementing a new process and managing change simultaneously can dilute savings.
-  **“We need to transform our processes before applying RPA”**
2 Ideally yes, but transformation can be incorporated into your RPA journey, either before or after automation. RPA is another lever that can be combined with more traditional transformation tools.
-  **“We can deploy our first ‘bot’ quickly”**
3 The pilot can take longer than expected, as you need to build the right infrastructure, capabilities and sponsorship. The ‘cost per bot’ will decrease significantly as you scale up and accelerate your speed of execution.
-  **“We need to build lots of bots”**
4 Don’t get mesmerised by the volume. Utilisation per ‘bot’ is a better measure for understanding the effectiveness and efficiency of automation.
-  **“We can move straight to cognitive solutions”**
5 You need to walk before you can run. RPA is a stepping-stone in your automation journey and part of a longer process of transformational change.

Your RPA journey: the first 100 days

With a clear plan of action, you can be ready to scale up to production within just three months.



... preparing to scale up

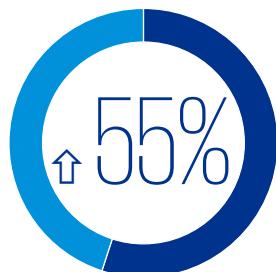


Case study: Top three global retailer

Our UK headquartered client has a significant global presence and delivers back office functions. Our client's objective was to become fully compliant with a new regulatory framework, achieve better data quality and reduce operational costs.

Delivered benefits

Operations can be delivered faster

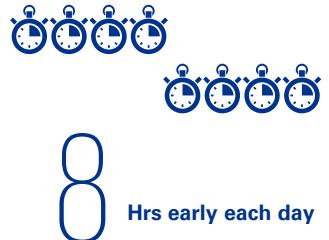


Elapsed time improvement

Reduced points of failure



Data availability



Front-office benefits



Additional time gained per query to investigate and resolve discrepancies resulting in potential cash savings

Potential headcount redeployment



Accuracy level observed



Assessed the opportunities for automation

- reviewed processes to understand where automation would deliver the most benefit
- created a matrix to show priorities for implementation
- facilitated internal customer engagement to adopt automation

Developed our client's automation capability

- helped our client develop the skills required to implement automation
- developed a methodology and customised tools to support the work
- provided 'on the job training' to strengthen and embed our client's new capability

Supported the technical architecture build

- assisted in designing the interim and end state IT infrastructure
- provided oversight and support in implementing different system environments
- self-assessed risk across different elements of the programme

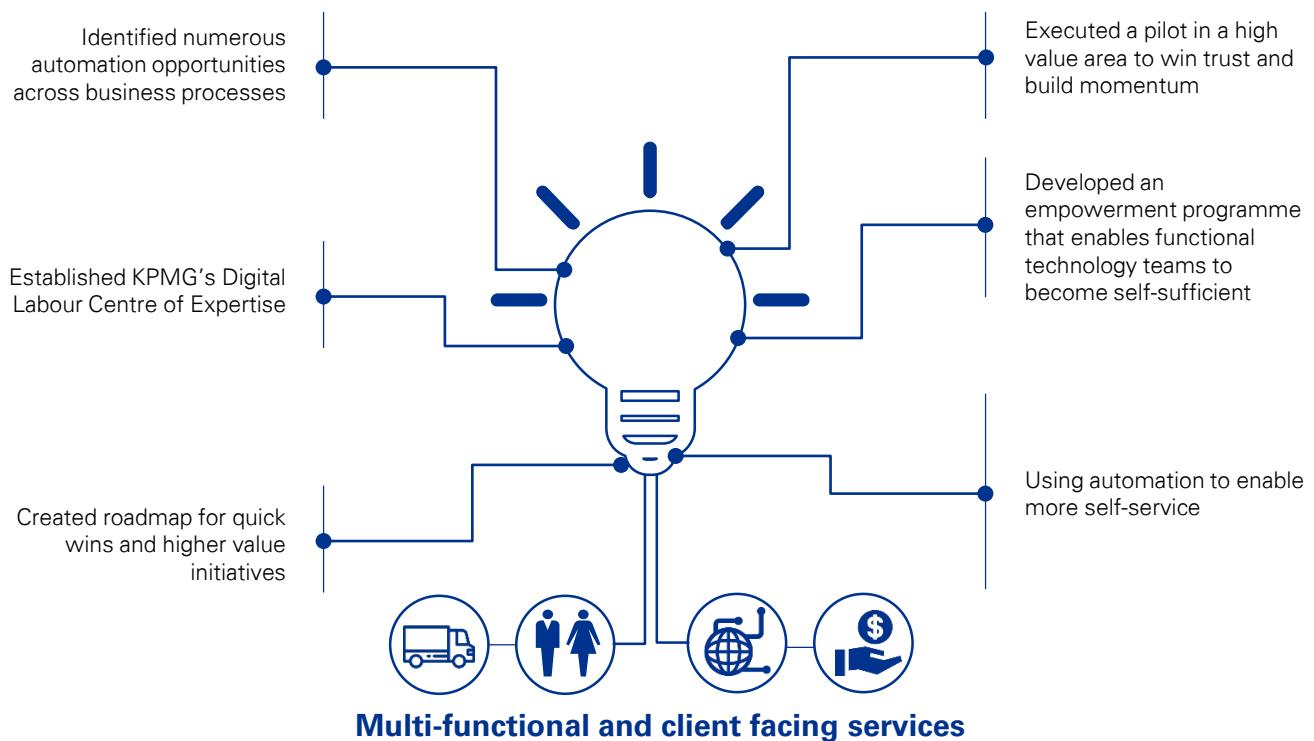
Deployed the bots

- implemented the 'bots' in a live virtual environment
- provided support from User Acceptance Testing (UAT) to 'go-live'
- monitored benefit realisation based on the deployed 'bots'

Approach:
delivering benefits
and creating internal
client capability

Case study: 'Tasting our own medicine'

KPMG has investigated short, medium and long term opportunities for deploying automation technologies in their business, in an effort to drive operational efficiency, effectiveness and create a platform for innovation in RPA and cognitive.



End to end approach



Identified cross-functional opportunities spanning from RPA to Cognitive Automation



Identified
100+
opportunities across
Enterprise Process
Model

Tangible benefits



Identified opportunities across KPMG UK to deliver better services in a more efficient manner

Designed for sustainability and scalability



Launched a Digital Labour Centre of Expertise

Tried and tested approach

- 1 Cross-functional end to end process review
- 2 Full lifecycle experience across multiple technologies
- 3 Leveraging the knowledge to support our clients

See the bigger picture

Implementing RPA is about more than just technological change. It could affect components across your operating model.



Operating model considerations



1 Reporting and data

Adopting a new digital operating model will become an enabler for data quality programmes, performance dashboards and centralised real-time information to enable better management information.



2 People and capability

Refining the Employee Value Proposition (EVP) across the organisation will become increasingly important. The new operational environment means you will need to up-skill resources, provide alternative career paths and reinvigorate existing roles, such as continuous improvement specialists and process owners.



3 Governance model

The new environment will give you better control of any changes or decisions that could affect operations. An environment with clearly defined roles and responsibilities will have a potential impact across your current or target operating model.



4 Technology landscape

RPA will make it easier to deploy resources across different virtual environments. This will make operations more resilient, accelerate integration across systems and buy you time to address more structural and costly systemic changes.



5 Process design

Automation will provide an opportunity to design true end-to-end processes and realise the associated benefits. This will make operations more consistent, reduce process fragmentation and make ways of working more transparent.



6 Organisational impact analysis

Automation will shift the organisation's focus from a departmental view to a process view. New roles will be created to control the digital operation, handle exceptions, and maintain and change bots. All of this will enable better integration across functions and geographies.



7 Internal control and compliance

Deploying digital labour will give you measurable SLAs and auditable processes. Overall adherence to processes, policies and data disclosure across the organisation will be significantly enhanced

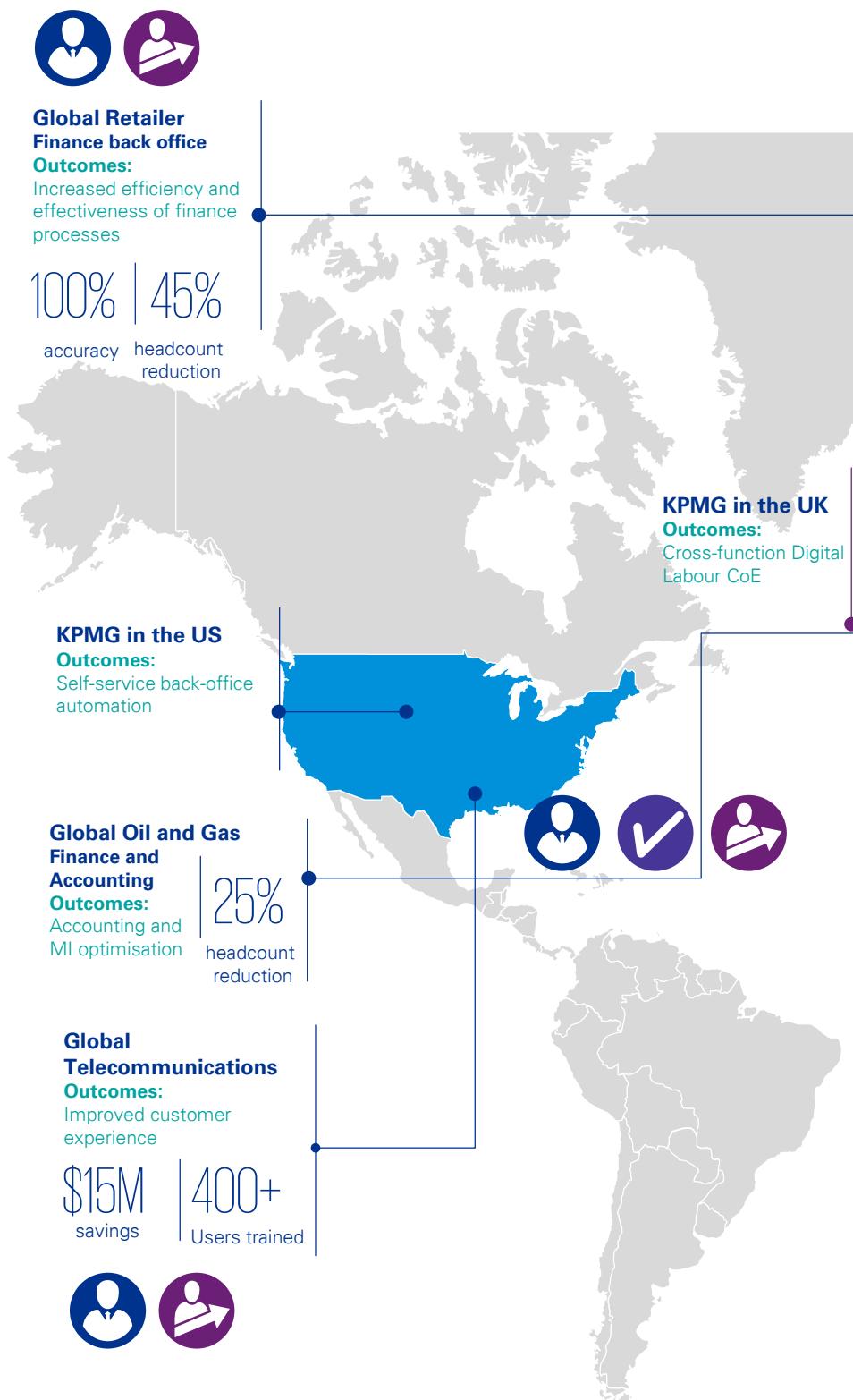
We've done this before ...

KPMG has delivered successful implementations across different industries and functions, delivering a wide range of benefits

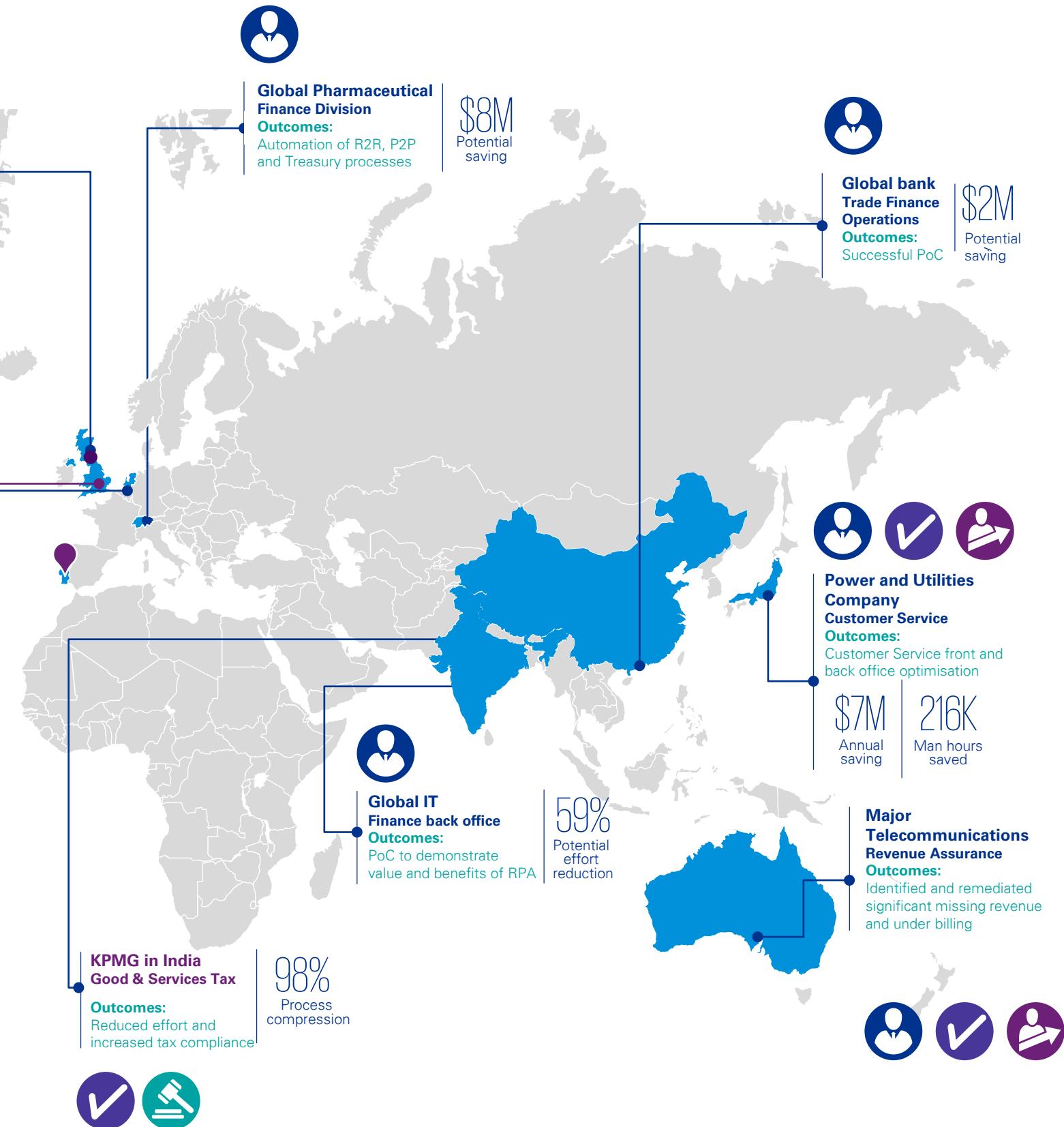
KPMG's global network of member firms have capability to support automation and operating model transformation programmes.



KPMG's global network of firms have two dedicated delivery centres in India and Portugal.



Multiple benefits	Headcount reduction	Quality and Control	Improved Customer Experience	Enhanced Compliance



More than 50 automation projects delivered by KPMG's global network of firms

Managing change - the human element

The seamless integration of your co-existing workforce ('humans and bots') will need to be carefully planned and executed throughout your automation journey. This new digital ecosystem will require fundamental changes in the skills and responsibilities across the entire organisation and operations.

In this context, adoption of a structured approach to change, from approved solution design to deployment in a live environment, remains a critical success factor in achieving a sustainable Business As Usual (BAU) state.



Initiate the relationship as soon as possible...

- Plan roles and responsibilities in advance for releasing your first 'bots'
- Identify teams that will be impacted first, based on your release strategy
- Take advantage of user acceptance testing to 'make introductions'
- Provide training on new ways of working with clear focus on exception handling
- Understand 'breaking points', such as process upstream dependencies

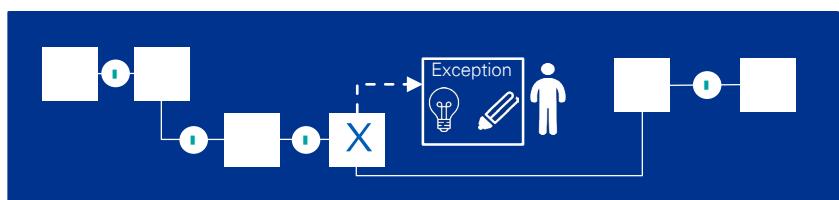
Integrate your new colleagues with your current teams...

- Assess the resource requirements to retain and attract new talent
- Remember that communicating and engaging with your 'new colleague' will be critical
- Train your management team, as they will be managing a newly blended workforce
- Make your change management team an active partner in this journey
- HR, Employee Relations and Communication teams will have to work even more closely

Recognise the need to create new career paths...

- Review your existing Employee Value Proposition to recognise the new 'workforce diversity'
- Recognise that IT 'savviness' will become a core skill across your organisation
- Reconsider your current talent sourcing to better connect skills with career paths

From Solution Design



To Business As Usual

Lessons learnt – 'The dirty dozen of automation'

Our global network of firms has delivered more than 50 automation projects around the world. Here are some insights we've learnt on the way.

Establish an enterprise wide capability



Regardless of where automation is initiated, the capability to deliver any automation proposal needs to have an end-to-end operational remit, to build the right solution effectively.

Partner with your technology function



The technology function will become a key partner in enabling your RPA led transformation. Their ability to generate scalability (e.g. testing environments, bot credentials, etc.) will help determine the success of your automation programme.

Strike the balance of your transformation



RPA is a vehicle to transform your business, but it needs to co-exist with other levers (e.g. process re-engineering, system integration, organisational design) to enhance the opportunity presented by automation programmes. How you sequence these will determine the value you unlock for your organisation.

Protect your business case



Ensure you fully understand the ramifications of any existing 'in-flight' transformation initiatives on your automation pipeline. Align and communicate any overlaps to avoid dilution of estimated potential savings in your business case.

Select vendors aligned with your ambition



Understanding the RPA product evolution and having a clear vendor management strategy are key considerations for a digital transformation. Select an RPA product that can be augmented (e.g. machine learning, AI, etc.) to meet your automation ambition.

Set your priorities and the rest will follow



There is no right sequence for adopting different types of automation technologies. Your business priorities and the level of benefits required should inform your decision on which automation solution to adopt.

Build solid foundations



Build your automation programme structure with a long-term strategic intent. Over time, this will allow your automation project team to transition into a core part of your BAU structure.

Identify and incentivise talent



Use the digital programme lifecycle as an incubator for upskilling and redeploying talent across your newly established digital operations. In parallel, articulate a clear retention strategy at the beginning of the programme to help retain your top talent and mitigate against any business continuity risk.

Start small, deliver swiftly



Getting some 'scores on the door' early will help build momentum and give your automation agenda credibility, allowing you to compete for and secure the organisational resources required to move forward.

Consider business scalability



Cloud solutions and data accessibility will become more relevant as you progress through your automation journey, as they are key enablers for enhanced automation (e.g. machine learning).

Evolve your analytics capability



An automation programme will give you access to 'almost' real-time transactional data and an opportunity to develop new analytical layers in your data and analytics portfolio.

Automation 'horses for courses'



You will need to explore different types of automation classes to identify cost-effective use cases and deploy suitable automation solutions. This is a critical success factor in realising targeted benefit types.



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