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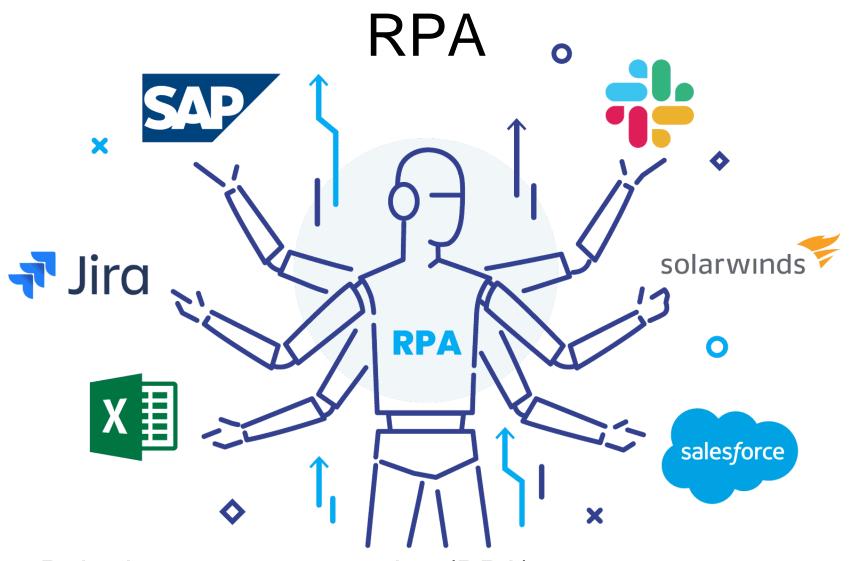
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ROBOTIC PROCESS AUTOMATION (RPA)



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GD 2023/24 - 1



• Robotic process automation (RPA) tools



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RPA

- Perform "if, then, else" statements on structured data,
- typically using a combination of user interface (UI) interactions
- or by connecting to APIs to drive client servers, mainframes or HTML code.
- operates by mapping a process in the RPA tool language for the software "robot" to follow, with runtime allocated to execute the script by a control dashboard.





- Is an application of technology, governed by business logic and structured inputs, aimed at automating business processes.
- Using RPA tools, a company can configure software, or a "robot," to capture and interpret applications for processing a transaction, manipulating data, triggering responses, and communicating with other digital systems.
- RPA scenarios range from generating an automatic response to an email to deploying thousands of bots, each programmed to automate jobs in an ERP system.

CIO



RPA

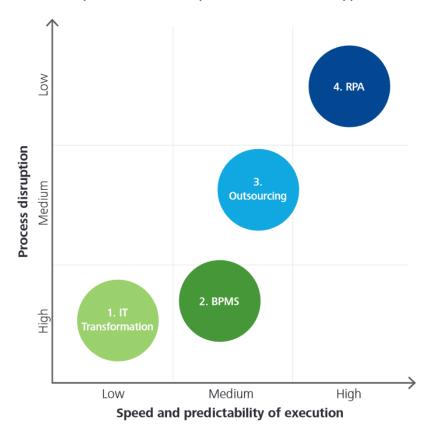
 s an emerging technology that refers to software that can be easily programmed to perform routine activities that are currently carried out by human workers, in a controlled, flexible and scalable way.

Deloitte



Process Transformation Approaches

Figure 1: RPA compared to traditional process transformation approaches



Source: Deloitte Analysis



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Process Transformation Approaches

Figure 2 Magic Quadrant for Robotic Process Automation



Source: Gartner (July 2022)



What processes are suitable to deploy with RPA?

- Repetitive
- Susceptible to error
- Rules based
- Involve digital data
- Highly administrative.





Why Robotic Process Automation?

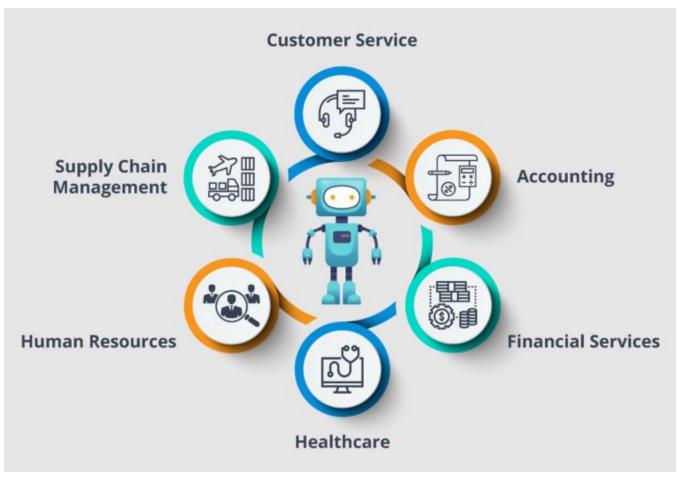
The benefits of RPA solutions go beyond cost reduction and include:

- Decreased cycle times and improved throughput
- Flexibility and scalability
- Improved accuracy
- Improved employee morale enables them to add more value
- Allows time to innovate and focus on customer satisfaction
- 24/7 availability.





Applications



https://www.processmaker.com



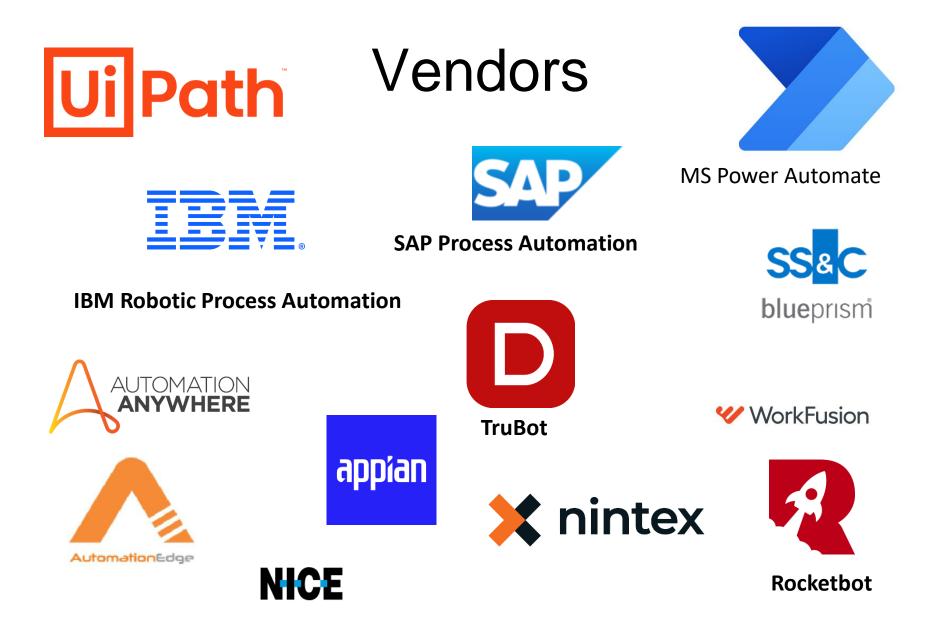
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Applications

- Banking (e.g. Romão et al. 2019)
- Finance (e.g. Ortiz e Costa, 2020)
- Auditing (e.g. Calçada, 2020)
- Invoice processing (e.g. Oliveira, 2021)
- Retail (e.g. Oliveira, 2021)







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Other





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GD 2023/24 - 13

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