

Selection of Robotic Process Automation in Business Process

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ABSTRACT

In the era of new technologies, RPA is becoming apparent or prominent in companies. As it is emerging in a very fast pace. RPA tools have the capabilities of mimicking or executing of routine operations that are being performed by the human that has a high risk of a mistake but RPA is taking their place by giving them an accurate exposure but still, other work is to be done by humans only. The title "Selection of Robotic process automation in the business process using RPA" is a paper which is going to brief about RPA how is it impacting future.

KEYWORDS: Robotic, Automation, Reliable

How to cite this paper: Garvit Gupta | Rachit Kapoor | Dr. Deepak Chahal "Selection of Robotic Process Automation in Business Process" Published in International Journal of Trend in Scientific Research and Development (ijtsrd), ISSN: 2456-6470, Volume-4 | Issue-4, June 2020, pp.255-257, URL: www.ijtsrd.com/papers/ijtsrd30890.pdf



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INTRODUCTION

RPA is termed as robotic process automation (Figure 1). Now let just pick these term as individually

- **Robotic-** a structure that has the capability of being programmed by a computer for performing complex tasks is known as a robot. In terms of RPA, this task would be to mimic human actions.
- **Process-** To performs a particular task, they must be following in the form of a sequence. it must be in stepwise format.
- **Automation-** when a particular task is happening by itself with no human interventions

verbal communication it forms abstractions and concepts [1]. It is mainly used by businesses to reduce staffing costs and to improve more accurately while working on bulk data. It can be used in several tasks like email, extracting data from one to another, creating and sending invoices.

Business point is to gain a profit and RPA can provide that help in by automating and many businesses is still into exploring how can be RPA used more to reduce cost, time and more accurately.

RPA working

RPA bots have the capability of mimicking but not all human actions. They can sign in into applications, copy and paste files, moving of files, ability to fill up the forms, can pick data from browsers and etc.

Benefits-

- Motivated
- Productive
- Reliable
- Consistency
- Non-invasion Technology
- Compliance
- Low Technical Barrier
- Accuracy

Utility of RPA in Future Digital Work

As some of the business has been following the repetitive operations since ages. Now the business operations have

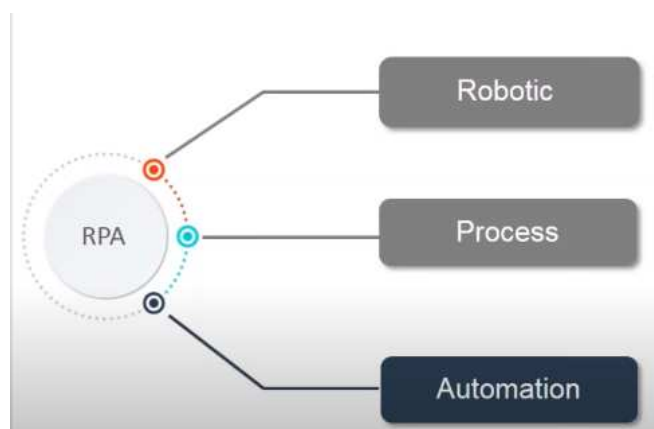


Figure 1: Schematic representation of RPA

RPA is known for its versatility and can work faster and more accurately than humans doing the same task. A focus is made on machines as machines cannot be understood by

jumped into a new era of technology i.e. “Robotic Process Automation” which can mimic all the routine operations in a business-like- recruitment, training, schemes and many other. RPA is emerging as part of business now. Diversity of RPA is making business to be the adoption of RPA must be on time. In the future, it will be reducing the manpower and making it easier to do the complex task accurately, so that human resources can focus on the development of other business activities.

As it is more convenient and less costly making it be adopted by the business across the world like manufacturing industries, chemical plants, the healthcare sector, etc. Sophia a humanoid that is going to help human in their personal life. RPA can improve the living and quality life of people as it can be used in hospitals as well, one can improve their productivity

In the coming future, it will be difficult for business companies to survive and give their best productivity. RPA has become the new era for the companies to increase their all overgrowth According to literature, to address the lack of human resources, Human-Robot Interaction (HRI) and robot companionship show positive results on the human psychological state [2].

The way RPA is replacing the manual work and making to reduce cost, minimize the errors.

The limitations of RPA are not just in banking and insurance but it will be used on other industries as well as manufacturing, aviation, oil and gas, retail and analytics and many more. Its market share going to reach about USD 8.75 billion by the year 2024

RPA Business

As RPA is growing and more demanding, there are some companies as well who are providing RPA tools to the companies who are demanding some names of the companies are- Blue Prim, UiPath, Automation Anywhere and many more. Their market share is much more than any other. Their way of work and providing a solution of the tool is different from each other but reaching a goal of only less cost, efficiency, and effectiveness.

RPA on Business Process Management

Bpm stands for business process management. Business process management is the people whose work is scrapping of data from one to cut copy in another particular file format as per their so that they can provide a proper solution to that question.

Privacy in some countries like Europe only one customer id can be fill by the identifier at one time and that is making these BPM's people difficulties to do because of this RPA comes into this era. BPM's people can do the task for a limited time period and compare to RPA bots can work for 24×7

RPA in HR

As new technologies like AI, cloud computing, cybersecurity, IoT, Big Data and many more are already impacting and modifying in industries [3].

HR work is to accept those technologies that are good and best for their growth and that provide efficiency and more effective as well.

Working of Robotic Process Automation in HR

- Better way of working
- Following the rules and regulation
- Productivity
- Cost-effective

HR can use the following phrase to use the RPA

- Authorization
- Rating
- Analysis
- Categorizing

Future of RPA

The limitations of RPA are not just in banking and insurance but it will be used on other industries as well as manufacturing, aviation, oil and gas, retail and analytics and many more. Its market share going to reach about USD 8.75 billion by the year 2024. It's the capability to provide many benefits such as

- Efficiency: these robots can work for 24×7
- Accuracy: can fill up the bulk data entries accurately.
- Cost Reduction: Bots are helping to reduce the cost
- It provides the security of data when you want to change management, it makes it easy to use that.

using RPA bots are much cheaper than full-time staff, it is expected that the RPA will disrupt the predictable business process model and change the global subcontracting industry.

Huge career growth is going to be in demand by the RPA technology in the near future as it is affordable technology. There is going to be a huge demand for automation in the upcoming future. Global robotic process automation (RPA) market from 2016 to 2021 and its applications in various market share has been shown in figure 2 and 3 respectively [4].

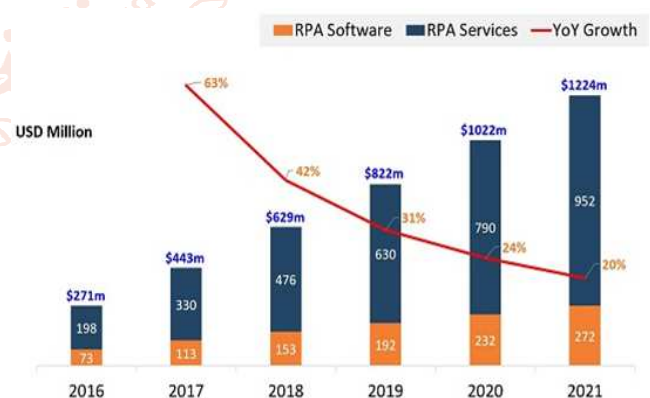


Figure 2: Market share from 2016-2021

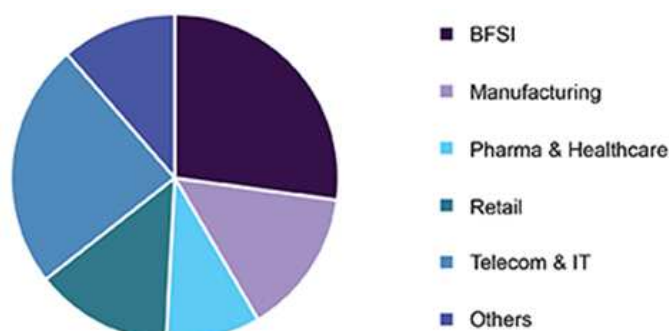


Figure 3: Application of RPA in fields 2019 market share

Payroll Processing

Payroll processing is one of the examples that need hand operated interaction for months, every year. RPA bots are the solution to scrap the details that are required from hand-written timesheets and then calculate the amount that has to pay from their stipulated CTC's.

Merits of Payroll automation:

- Accurate payslips
- Calculation and deductions at a high rate
- Expenses, bonuses, holiday pay, etc. can be calculated with minimum efforts
- Compliance burden is removed
- To understand the complexity of tax legislation, need to be removed
- Stores and organizes the data related to payslips and annual reports in an easily accessible and secure way.

Conclusion

Technological innovations such as robotics, machine learning, cloud technology etc have established themselves very fast over the last few years and have now become a key element of the commercial and social economy [5]. To

summarize this article RPA is becoming the new technology in the coming scenario. To run a business and to minimize the cost adaptability of the new technology must be on time to sustain.

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