

Scope of RPA Automation in MSME sector

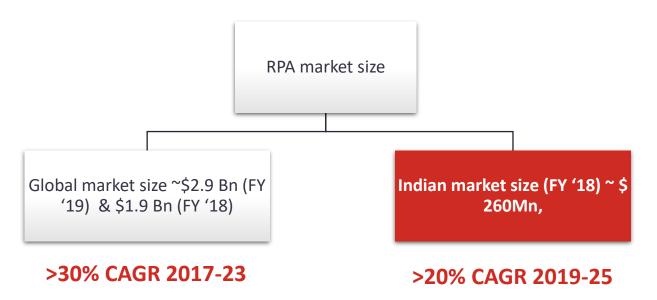
Author,

Mr. Avinash Sah | MBA(IB), IIFT

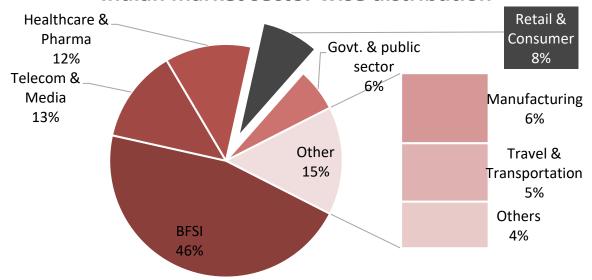
Mentored by,

Mr. Anindya Das | Henkel (Germany)
Mr. Maulik Goswami | Accenture Strategy (London)

In association with,
Arbalest Partners

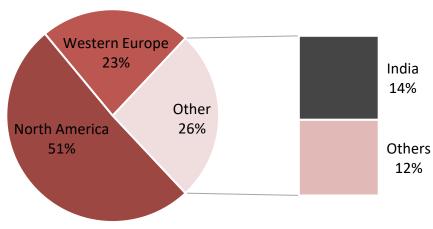


Indian market sector wise distribution



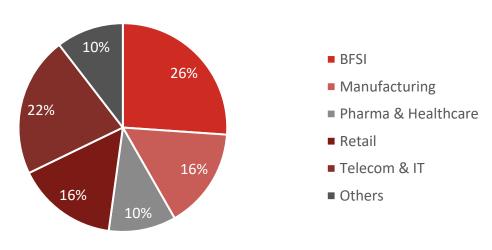
Source: NASSCOM

Global RPA market share



Source: Gartner

Global RPA market share, by application, 2019 (%)



Source: Grand View Research

Market sizing

Market sizing

SUPPORT					
Customer service	ΙΤ	Finance and accounting	Human resources	Real estate and facilities management	Legal
Intake and verification	Enterprise architecture	Budgeting and forecasting	Talent strategy	Document management	Intellectual property
Log-in and opening applications	Application development and management	Decision support	Diversity and inclusion	Payments and receivables	Contract managemen and terms
Customer contact	Provisioning	Record to report	Workforce planning	Reconciliation and dispute management	Governance
Diagnostic and resolution of customer issues	IT service management	Credit	Talent acquisition	Lease administration	Litigation
Self-service	Database development	Billing, collections and accounts receivable	Talent onboarding and staffing	Compliance/ FASB 13 reporting	Labor and employmer
Field services	Network configuration	Accounts payable	Performance management	Facilities management scheduling	Mergers and acquisitions
	Infrastructure operations	Tax	Talent development/ succession planning	Utility billing processing	Risk management
	Service desk	Treasury	Learning scheduling	Utility consumption monitoring	Regulatory complianc
	End user services	Internal audit	Learning delivery	Space and occupancy data management	
IT security Payroll Labor relations Works		Workspace optimization			
			Total rewards	Security access management	
			Time and attendance		
HR reporting					
Reporting and analytics					
Data management					
	Hie	gh potential Some	potential Low p	otential	

Note: FASB 13 is Financial Accounting Standards Board Statement No. 13

Source: Bain & Company

Indian MSME sector

Functional analysis

MSMEs contribute around 6.11% of the manufacturing GDP and 24.63% of the GDP from service activities as well as 33.4% of India's manufacturing output.

They have been able to provide employment to around 120 million persons and contribute around 45% of the overall exports from India.

The sector has consistently maintained a growth rate of over 10%. About 20% of the MSMEs are based out of rural areas

Sector contribution to GDP, FY 18

~30%

Distribution by activity

Manufacturing: 31% | Trade: 36% | Services 33%

Distribution by region

Urban: 49% | Rural: 51%

According to International
Finance Corporation (IFC)
reports, informal SMEs in India
are 17 times more than the total
of formal SMEs.

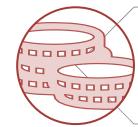
Global MSME sector



SMEs account for over 50% of GDP in high income economies Two-third of total employees in OECD members and emerging market economies



SMEs are also called as the "backbone of the European economy" as they constitute 98% of all enterprises (20.7 million businesses in total) within European Union region (EC, 2012).



In EU, significant amounts of grants and financial support are provided to SMEs, for protecting the flexible and innovative structures and competitiveness of SMEs, which is not present in developing countries such as India.



Business statistics of UK revealed that there were an estimated 2,740,000 unregistered businesses as of 2013, representing 56.0 percent of all private sector businesses

Process

• Focus on narrow localized market, results in smaller market to service

MSME sector

- Low enthusiasm for implementing quick-to-market distribution resulting in lack of competitive advantage for growth
- Very low scale of production hinders the capacity to reduce the costs of products and engage in technological upgrades.
- Underdeveloped Knowledge transfer systems

People

- Lack of managerial skills & vision in the management team of MSMEs
- Lack of effective selling techniques
- Shortage of management talent
- Managerial mistakes, failure to develop a strategic plan and poor financial control

Technology

- Lag in keeping up the pace with technological advances
- Low access to adequate technologies
- Inability to meet the demand for multiple technological competencies
- Lack of funds for implementing software such as ERP systems
- Lack of innovativeness, due to high costs of R&D, is a major cause for the unsatisfactory levels of modern technologies of SMEs

Others

- Excessive costs of product development projects
- Lack of stability in the regulatory environment
- Lack of financing
- Strong competition faced from foreign companies

Key Secondary Research Findings

In India, major strategies for SMEs to improve productivity at all level are

- Supplier development
- **TPM**
- Building an appropriate organizational culture.

development and auality Human resource highly correlated improvement are competitiveness.

The results suggest that Indian SMEs give the lowest attention to IT applications.

To sustain a fair level of competitiveness in both the domestic and global markets, SMEs must strive to utilize information and communication technologies to reach the right markets in cost effective ways. SMEs of both countries should concentrate on developing HR initiatives and implementing quality improvement techniques.

- Inventory management
- management

MSME sector

- Freight management
- Supply and demand planning

Invoice and contract

- Returns processing

HR Services **Supply Chain** RPA is a good fit for

processes that require RPA enhances cycle time, filling, capturing data, speed, capacity, and asset updating and processing efficiency. It also increases requests, increasing customer, supplier and efficiency and costemployee satisfaction, effectiveness. These while bringing cost savings ccount for approx. 65% of of more than 30%. rules-based processes.

- Data management
- Onboarding / Offboarding
- Payroll
- Compliance and reporting

Finance and Accounting

In F&A processes, RPA reduces costs, improves efficiency, accuracy and delivers significantly faster cycle times at more than 50% cost reduction.

IT Services

RPA delivers solutions to both enterprise computing and end-user computing. Approx. 30% of the time is spent on low-level, repetitive tasks.

- Enterprise Computing processes: servers, data centers, security, infrastructure
- End-user Computing: any application used by human users: from Citrix to Excel, hardware or collaborative tools

Procure-to-pay

- Order to cash
- Record to report
- Vendor management
- Incentive claims
- Collections
- Sales order management

	Problem	Reason	mpact	5 olution
P R	Focus on narrow localized market, results in smaller market to service	Small scale operation,less business opportunities,lack of diversified operations	 Face high purchasing power of customers High uncertainty in business Absence of synergies between different operations 	 Deploy a chatbot in the website to take user queries & redirect to contact centre in case of sales opportunities
0	Low enthusiasm for implementing quick-to-market distribution resulting in lack of competitive advantage for growth	 Lack of funds to initiate costly R&D activities Low technological capabilities to reduce time to market Lack of management capabilities to fulfil the changing customer needs 	 Lower top-line growth Threat of competitors Decrease in brand value Low enthusiasm in workforce 	 Invoice and contract management Freight management Supply and demand planning
E	Very low scale of production hinders the capacity to reduce the costs of products and engage in technological upgrades.	 High CAPEX costs hinder the upgradation activities Lack of infrastructural facilities hinder expansion activities Lack of financing for upgradation 	 Higher fixed cost/unit resulting in higher price or lower margins Low production leading to low market share Inability to service big clients results in lower top line & margin growth 	 The solution would require infrastructural & financial improvements. Since RPA solution is suited for support activities, RPA may not be able to
S	Underdeveloped Knowledge transfer systems	 Poor IT ecosystem to store & access the contents for workforce development Lack of coordination among different departments 	 Underutilised technological capabilities across the organisation 	 Create a repository & deploy RPA bots to process the query & give possible solutions

D	Problem	Reason	mpact	Solution
E	Lack of managerial skills & vision in the management team of MSMEs	 Weak employee training activities Lack of intellectual talents, who can strategize for new opportunities 	 Lack of direction for the firm Slow growth Lack of competitive advantage Lack of small deals 	 Reporting excel based dashboards will help the senior management to analyze the performance better & take better decisions
O P	Lack of effective selling techniques	 Low motivation to perform better, possibly due to lower compensation Poor skill development activities to train people for better sales output 	Low growth in top lineLower realizationsLower brand reach	 Implement sales intelligence that can automatically acquire data from any website and integrate it with internal sources such as customer resource management (CRM) systems, resulting in more time to engage with prospects, counter competitive issues and close sales faster
L E	Hiring right talent	 Partnership with average placement agencies Slow career growth in the company hinders potential applicant to join Lack of vision & direction refrains polished talents to join 	 Ineffective strategies to steer the growth of the company Missing potential partnerships with leading organizations Low prospects of growth for the employees 	 Automate processes that require filling, capturing data, updating and processing requests, increasing efficiency and cost-effectiveness. These account for approx. 65% of HR rules-based processes.

	Problem	Reason	mpact	5 olution
T E C H	Lag in keeping up the pace with technological advances	 Costly investments for a financially constrained organization Rapid upgrade roll outs, making difficult for the organization to keep up the pace 	Unoptimized processesDecline in competitive advantageIncrease in downtime	 Industrial technological upgrades are not under RPA. If the company already using RPA, then RPA SaaS would be the solution.
	Low access to adequate technologies	 Costly investments Lack of awareness about possible business use cases 	 Unrealized potential High % of manual tasks Low productivity High cost of production 	 Automate the simple processes resulting in low cost & high benefits, keeping in consideration of simplicity of handling that automated process. For ex- email automation
	Inability to meet the demand for multiple technological competencies	 Lack of direction in prioritizing the technological upgrades Budget constraints Limitations on the IT workforce 	Slower growthUnmet potential	 Perform process mining to identify the processes to automate. Prioritize them using prioritization matrix & firm specific factors such as budget, present stage in learning curve etc.
	Lack of funds for implementing software such as ERP systems	 Budget constraints Lower fund allocation Lack of motivation in senior management for tech upgrades 	High % of manual tasksSlower & error prone processes	 Reporting excel based dashboards will generate insights to analyze the performance of the company better & take better decisions instead of going for ERP
	Lack of innovativeness, due to high costs of R&D, is a major cause for the unsatisfactory levels of modern technologies of SMEs	 High R&D costs Constrained budgets At lower levels in the learning curve 	Weak competitive advantageUnoptimized & slower processes	 RPA for R&D activities is not a good option because R&D requires lot of highly variable non repetitive tasks.

	Problem	Reason	mpact	5 olution
0	Excessive costs of product development projects	 Lagging existing capabilities, resulting in high cost of upgrades Lack of financing 	 Loss of business due to costly upgrades Affects on the top line Lesser capabilities to service 	 Automate Client or owner invoice creation, Cost monitoring, Processing invoices, Document management & other processes involved in handling a project
Н	Lack of stability in the regulatory environment	 Different governments have different political bias Changing business landscapes demand updated regulations 	 High cost of compliance High errors in meeting latest compliance Instability in business functioning 	 RPA automation can help in maintaining the latest repository of regulations & guidelines to follow. This would reduce highly repetitive manual efforts
E R	Lack of financing	 High interest rates for SMEs Collateral required Cap on the loan amount Limited banks offering loans to SMEs 	 Unmet potential Loss of growth opportunities Impact on upgradations & R&D investments 	 Since financing is not a repetitive task carried by SMEs. Automating it would not make sense
S	Strong competition faced from foreign companies	 Lack of product/service differentiation Lack of capabilities in comparison to competitors High cost of production 	 Unstable business Lack of long term growth outlook Uncompetitive pricing 	 This is due to unsatisfactory capabilities such as lack of R&D, poor product quality, lacking infrastructure. RPA is better suited for support activities & hence may not be a good solution

INDIAN













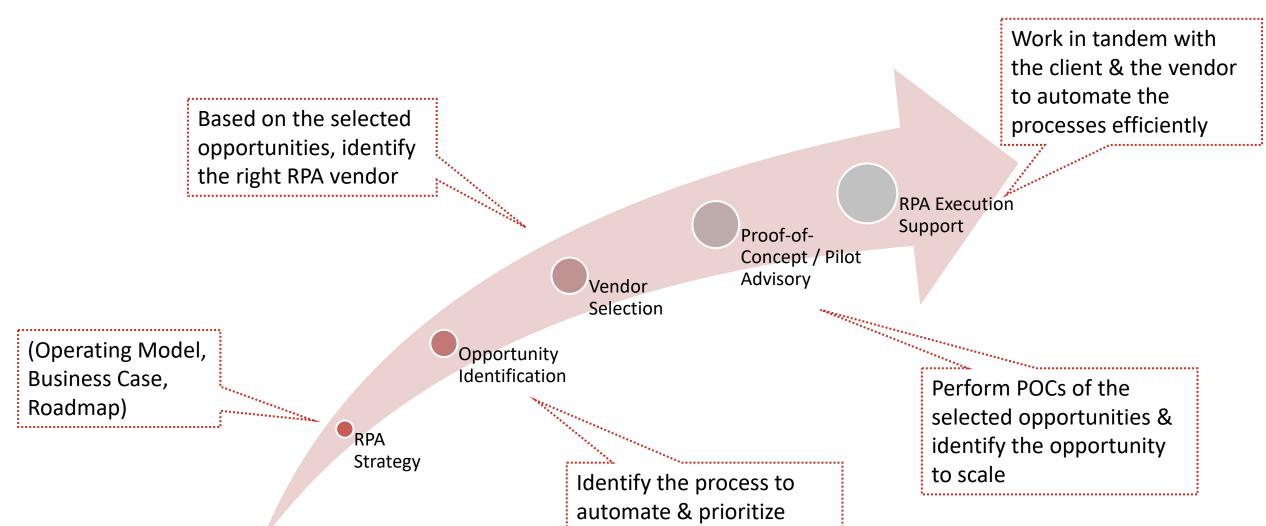














Case Study: Archer Daniels Midland

CASE STUDY 1

Story

 An organization needs generate reports by getting from contents files. Needing metrics to help assess program effectiveness and impact on important an KPI.

Problems:

- High volume
- Time Consuming
- Unfulfilling

RPA Solution:

Using citizen built bots, the company was able to process thousands of files per within 4 hours, which used to takes weeks to complete.

CASE STUDY 2

Story

 An organization generated reports every month at closing

Problems:

- High volume
- Time Consuming
- Unfulfilling

RPA Solution:

 Using citizen built bots, the company able was to 180 process reports in a day, which used to take 6 days of efforts. manual The company saved 384 hours of employees & got the ROI in the 1st run itself.