

# KRYON

# Speeding Up Process Identification for Automation

Intelligent Automation (IA) provides a powerful lever to rapidly improve business process performance while freeing up teams to focus on more value-adding activities. Establishing a successful automation program requires enterprises to identify the right processes for automation, driving cost savings, optimization, productivity, efficiency and business value. Avasant's Process Prioritization Framework assesses the readiness and suitability of IA implementation. The framework provides enterprises with a business driven choice of processes to automate and augments the capabilities of process discovery tools to select processes likely to have the greatest effect on the business' overall strategy.







# **Contents**

| 03 | Introduction                                     |
|----|--|
| 04 | Process Identification for Automation            |
| 06 | Processes most suited for Intelligent Automation |
| 08 | Avasant Approach to Process Identification       |
| 14 | Conclusion                                       |





# SPEEDING UP PROCESS IDENTIFICATION FOR AUTOMATION



**50** %

Intelligent Automation has the potential to reduce operations cost by 35-50 percent



99 %

Intelligent Automation can reduce decision-making errors by over 99 percent Intelligent Automation (IA) has weaved an ecosystem powered by robotic process automation (RPA) and artificial intelligence (AI) to drive innovation, efficiency, and utility across the value chain for all industries, improving customer experience and enabling enterprise growth. Defined as a combination of robotic automation with one or more AI technologies, Intelligent Automation allows enterprises to apply the power of infinitely repeatable, high velocity, highly reliable, machine-driven processes not only to the routine tasks, but also to highly-complex tasks which require real-time judgment and decision-making based on the processing of multiple, variable and conflicting inputs.

Intelligent Automation is redefining the way businesses operate, with the potential to reduce operations costs by 35-50 percent, replace close to two-thirds of human labor, and reduce decision-making errors by over 99 percent. IA enables a future of operations that is significantly more effective, rationalized and repeatable. With proven operational efficiencies for organizations, adoption and implementation of IA to business processes is widespread and across the value chain.

| Vertical             | F&A                 | Procureme | nt Human<br>Resources | Contact Cer | nter Industry Specific<br>Processes |
|----------------------|---------------------|-----------|-----------------------|-------------|-------------------------------------|
| BFSI                 |                     |           |                       |             |                                     |
| Healthcare           |                     |           |                       |             |                                     |
| Manufacturing        |                     |           |                       |             |                                     |
| Hi-Tech &<br>Telecom |                     |           |                       |             |                                     |
| Energy & Utilitie    | es                  |           |                       |             |                                     |
| Retail               |                     |           |                       |             |                                     |
| Media                |                     |           |                       |             |                                     |
|                      | RPA Adoption Extent | O Low     | Medium                | ● High      |                                     |





However, despite widespread integration and the purported ease of implementation of IA, several engagements do not achieve the returns that enterprises expect. One of the major reasons for early failure in any IA implementation is limited visibility of the process landscape across the enterprise and targeting processes that have too little potential benefits. Establishing a successful automation program will require enterprises to identify the right processes for automation and to drive cost savings, optimization, productivity, efficiency and business value.

### PROCESS IDENTIFICATION FOR AUTOMATION

The forefront and core of an organization's intelligent automation strategy requires identification of the processes best suited for automation. Organizations must identify opportunities for automation across business units to streamline and increase the speed of the execution under a valid business case. Identifying and prioritizing opportunities for automation will firstly require the following to be determined:

- Which function(s) in the business will have the most viable Intelligent Automation opportunities?
- What processes can and should be automated?
- Does IA align with business objectives and organizational strategy?
- Are the business processes sound? Should we re-engineer our business processes first before we introduce automation?
- What role should the process owners play?
- What benefits can be gained, and pain points alleviated?
- How to launch and measure the success of a pilot?

A good process for automation balances the business value with the ease of implementation. This means measuring and assessing the value to the business, and the automation suitability with respect to each other.

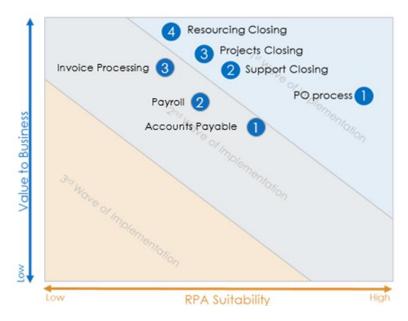




Business Value vs Automation Suitability

| Business Value  | versus Au  | utomation Suitability   |
|---|--|---|
| <ul> <li>Criticality</li> <li>Cost Savings</li> <li>Human Effort Reduction</li> <li>Hours back to the business</li> <li>Process training cost</li> <li>Reduction in cycle time</li> <li>Hiring avoidance</li> <li>Attrition avoidance</li> <li>Reduction potential in audit and management overhead</li> <li>Benefit scalability</li> </ul> | <ul> <li>Number of ex</li> <li>Degree of ce</li> <li>Degree of sto</li> <li>Degree of pro</li> <li>Level of input</li> <li>Transactional</li> <li>Frequency of</li> <li>Human decis</li> <li>Frequency of</li> </ul> | entralization<br>andardization<br>ocess maturity<br>consistency<br>volume<br>system changes |

The processes that score high in the above factors should be included in the first implementation wave. Processes with the next level of scores can be prioritized in the next series of implementation waves. This exercise can also help assess processes that need some level of redesigning before the IA implementation, to receive holistic benefits. Selecting the right process candidates also helps in establishing early wins, enhancing confidence within the stakeholder group and creating the much-required momentum to scale the initiative enterprise-wide.







## PROCESSES MOST SUITED FOR INTELLIGENT AUTOMATION

A process that is low volume, non-standardized, not leveraged across the enterprise and has a high exception rate is not the ideal process for automation. Automation is most suitable for the following type of processes, ones that are standardized, have medium to high volume, highly repetitive and leveraged throughout the enterprise:

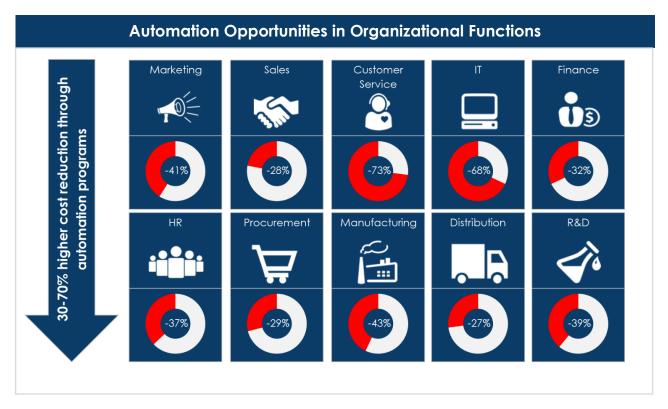
- Repetitive keyboard & mouse tasks
- Mass email generation, follow-up & tracking
- Conversion of graphic format, presentations
- Data entry & processing
- Database creation, retrieval, queries
- Internet file transfers; reading & updating websites
- ERP transactions, image downloads, mass changes
- Surveys, approvals & data validation
- Automatic PDF reading and form milling
- Periodic reporting, analysis and calculation

Typically, industries and functions with a high volume of transactional activities present a stronger case for immediate adoption. Automating these activities have the potential to generate immediate cost savings. Generally, adoption rates are also higher in traditional B2C sectors such as retail, or banking.

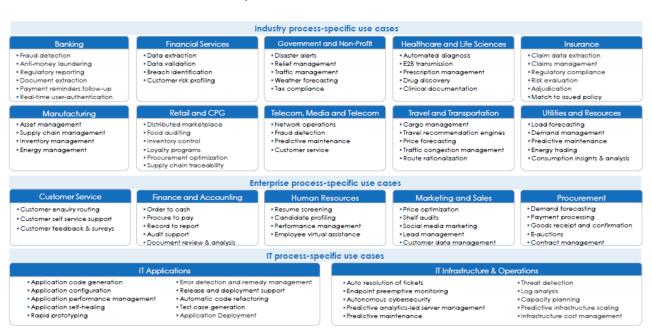
Rule-based transactional services, e.g., Finance and Accounting (F&A), some Human Resources (HR) functions (for e.g. Payroll) and IT services (for e.g. support and maintenance), are also good candidates for automation. Processes that require higher level of human cognition, e.g., corporate planning, marketing, product development will most likely be late adopters.







Some of the most common industries/candidates to benefit from RPA are indicated below:







## AVASANT APPROACH TO PROCESS IDENTIFICATION

With a rigorous and detailed framework, Avasant's methodology focuses on selecting and prioritizing processes that are comparatively easier to automate and can produce high value business outcomes post automation. Our process prioritization follows a 3 step approach:

- 1. Understand business objectives and relevance of automation
- 2. Determine process characteristics
- 3. Validate impact on business & ROI
- 4. Build automation pipeline

#### 1. Understand business objectives

Avasant starts its process by first understanding the drivers behind the push for automation. This typically includes interviewing the key stakeholders and reviewing documentation related to strategy, operating models, staff and processes to understand whether automation is due to either one, or a combination of the following:

- 1. Enhance customer experience
- 2. Optimize costs
- 3. Improve process performance
- 4. Standardize and scale

For our clients, we have also assessed current organizational and operational performance against desired targets by analyzing historical metric trends and tracking mechanisms. Based on which we have helped prioritize the business drivers for the automation initiative.

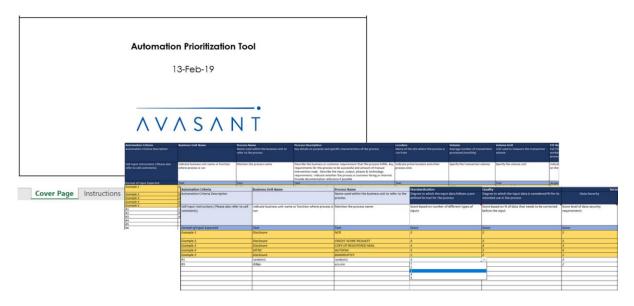
#### 2. Determine process characteristics

Avasant enables an organization to select and prioritize the processes for automation by measuring and scoring the processes on various assessment factors. If the number of candidate processes are below ten, only the prioritization of the processes is required. Avasant's process prioritization tool captures the process characteristics and scores them based on a weightage determined by business objectives gathered in Step 1.





#### Avasant's Process Prioritization Tool and Sample Criterion for Scoring



| Criteria Group                | Criteri<br>a           | Criteria                                | Criteria Weightage | Description  | Scoring Critirea                                       | Score |        |            |                     |              |
|-------------------------------|------------------------|---|--------------------|--|--|-------|--------|------------|---------------------|--------------|
|                               | Group<br>Weigh<br>tage |   |                    |  |  | 1     | 2      | 3          | 4                   | 5            |
| Process<br>Characteristics    |                        | Rules Based                             | 25%                | Score based on how rule driven process is  | Percentage of<br>Rule Based                            | <=20% |        |            | 60%-<br>80%         | 80%-<br>100% |
|                               | 30%                    | Training<br>Duration                    | 50%                | Score based on number of days required to be 100% productive                                     | Number of days   | 60+   | 30-60  | 15-30      | 7-15                | 0-7          |
|                               |                        | Exceptions                              | 25%                | Score based on volume requiring manual intervention  | Percentage of<br>Exception                             | 100%  | 80%    | 60%        | 40%                 | <20%         |
| Data<br>Characteristics       |                        | Standardization                         | 40%                |  | Number of<br>different inputs                          | · -   | 3-5    | 5-7        | 7-10                | 10-15        |
|                               | 25%                    | Quality                                 | 20%                | Score based on % of data that needs<br>to be corrected before the input                          | Percentage of<br>Correction<br>Required                |       |        |            | 20%-<br>40%         | <20%         |
|                               |                        | Security<br>Requirements                | 40%                | Score level of data security requirements  | Data Security<br>Requirements                          | Nil   | Low    | Mediu<br>m |                     | Very<br>High |
| Technology<br>Characteristics |                        | Application/<br>Platform<br>Complexity  | 55%                | Score based on the number of<br>applications, systems and interfaces<br>required for the process | Number of<br>applications,<br>systems or<br>interfaces | >10   | 7-10   | 5-7        | 3-5                 | 1-2          |
|                               | 25%                    | Application<br>Modernization<br>Roadmap | 45%                | Score based on how soon the relevant application or systems are expected to be modernized        |  |       | 6 - 12 | 12 - 18    | 18 -<br>24<br>Month | Not          |
| Delivery Model                | 20%                    | Sourcing Model                          | 40%                | Score the level of outsourcing in the process  | Percentage of outsourcing                              | 100%  | 75%    | 50%        | <=25%               |              |
|                               |                        | Centralization                          | 60%                | Score the extent to which process rules are defined centrally                                    | Percentage of<br>centralization                        | <=20% |        |            | 60%-<br>80%         | 80%-<br>100% |

#### A - Selection

The selection stage helps shortlist the most suitable processes for automation, from a long list of business units/ functions recommended processes. This requires clients to provide inputs on the following characteristics:

- Transaction Volume and unit used to measure the transaction volume
- Total number of Full Time Employees (FTEs) working on the process and the total cost per process FTE





- Error Rate Number of times the process resulted in unexpected outputs
- Cycle Time The average time in seconds that it takes from start to the end of the process
- Rules Centricity Number of process steps that are rule based expressed as a percentage of total steps of the process
- Training Duration Average number of days required to make a new hire 100 percent productive

Based on these inputs, suitability for inclusion of a specific process to be automated is determined.

#### **B** – Prioritization

For the processes shortlisted from the selection phase, further inputs are sought to determine the business priority on the following characteristics:

- Exceptions Number of times the process has to run differently from the norm expressed as the % of total Volume
- Automation Objective Business or operational goal that will be addressed through the Automation initiative
- Volume Variance The seasonal or sporadic differences in transaction volume measured over time
- Consumer Interactions Whether the process has any direct consumer interaction
- Labor Attrition Total monthly labor attrition observed within the process
- Training Costs Average monthly spend on training a new hire expressed as percentage of total FTE cost
- Management Overhead Cost calculated based on management effort spent on overseeing the process execution
- Effort Spent on Process Audit Average number of hours spent for audit and compliance related efforts
- Process Run Periodicity and Frequency Average process frequency in a month
- Degree of Input Standardization Degree to which the input data follows a predefined format for the process
- Quality Degree to which the input data is considered fit for its intended use in the process

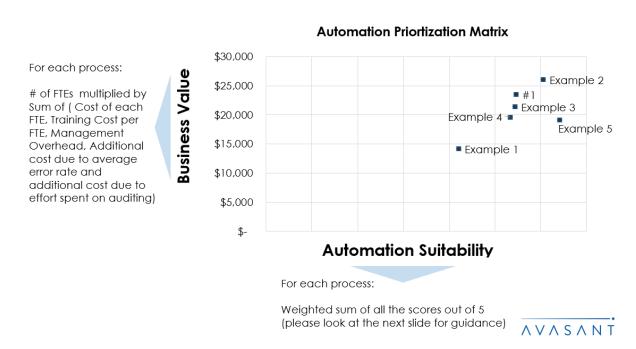




- Security Requirements Data Security and Data Access
- Application Platform Complexity Number of applications and interfaces required to run the process and the frequency of changes required by them
- Application Modernization Roadmap Is there a roadmap for modernizing or upgrading current systems?
- Sourcing Model Is the process outsourced to an external third party?
- Centralization Is the entire process executed within a location?

Based on these inputs, the processes are prioritized through a weighted scoring model. Avasant's process prioritization tool displays the prioritization through an automated chart:

#### Avasant's Process Prioritization Output – A Sample Snapshot

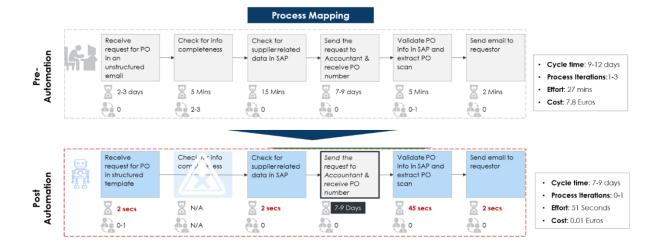


#### 3. Validate impact on business & Return on Investment (ROI)

Enterprise that are early adopters of Intelligent Automation typically require an additional validation through a Proof of Concept (POC) or a pilot. For such clients, Avasant conducts a process mapping and opportunity validation exercise for the top three to five process prioritized above:







In addition to identifying the relevant opportunity, this helps assess the business value and benefits that can be potentially gained through intelligent automation. Often, clients do not have readily accessible process information due to lack of process documentation such as process maps or standards operating procedures. To circumvent this, Avasant conducts interviews and workshops with the concerned process teams. An effective way to address this gap is to use process discovery tools that provide a faster, more holistic and non-intrusive method to capture data.





#### **Conventional process mining**

Conventional process mining tools analyze system event logs through sophisticated algorithms to identify and evaluate automatable work processes. This is faster than a manual decision-making process that typically takes a few months to identify processes well suited for automation. Additionally, the approach mitigates the following challenges:

- Lack of data integrity
- Subjectivity of decision-making process
- Extended time to collect data

Conventional process mining tools can also be used to test the accuracy of a given process map. However, there are several setbacks associated with this approach. The approach of analyzing logs is often incompatible with certain software environments, like legacy systems. These tools typically require the work of several employees, including both business analysts and technical experts, usually over a period of one to four months. Further, process mining tools are typically separate from RPA solutions, even if there is some degree of integration between the two systems. As a result, employees must create the relevant automation workflows from scratch within their RPA platform, once the organization has come to a decision as to which tasks to automate.

#### Kryon Process Discovery™

Kryon's Process Discovery solution offers businesses a faster and more flexible approach than conventional process mining tools, designed to streamline the identification and automation of the processes best suited for RPA. Kryon's Process Discovery solution:

- Collects real-time data on user actions
- Analyzes work processes based largely on advanced visual recognition
- Identifies processes to automate for optimal time and cost savings
- Generates fully functional automation workflows

Kryon Process Discovery comes with advanced visual recognition that can gather essential data on employees' work processes in real time. Kryon's use of computer vision offers greater flexibility and speed than the system event logs that conventional process mining solutions use enabling it to automatically generate automation workflows, which process mining solutions can't do. As a result, it is fully compatible with all types of software – Citrix, legacy, web-based, and others. Process Discovery also uses visual recognition to create process maps showing details about user actions that are not reflected in system event logs. Kryon Process Discovery requires only 1-4 employees, as compared to process mining's 5-10 employees and typically takes 3-5 weeks, as compared to process mining's 1-4 months. Further, Process Discovery automatically creates automation workflows, saving companies a time-consuming step and cuts deployment time by up to 80 percent.

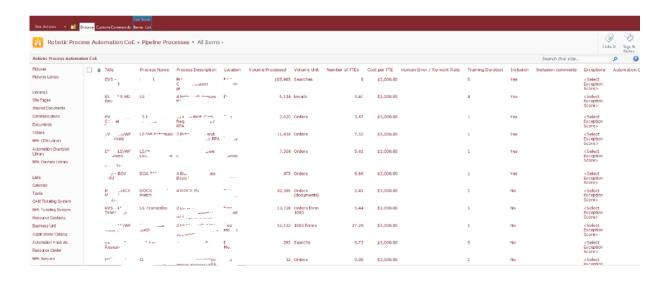




#### 4. Building Automation Pipeline

Based on the above assessments on business value of Intelligent Automation, certain processes can be reprioritized. Avasant develops a prioritized list of processes that can be tracked by the key stakeholders on a shared portal such as a share point.





# CONCLUSION

Intelligent Automation provides a powerful lever to rapidly improve business process performance while freeing up teams to focus on more value-adding activities. This disruptive impact on all aspects of the business value chain may still be the tip of the iceberg, with Intelligent Automation enabling a fundamental rethinking of business models and partnerships even beyond what is evident today.

Avasant has developed a framework for assessing readiness and suitability of intelligent automation implementation. This framework provides the enterprises with a business driven choice of processes to automate and augments the capabilities of process discovery tools to select processes likely to have the greatest effect on the business' overall strategy.

A well thought out plan that clearly sequences out the processes to be included in different phases of the IA implementation while also setting the right expectations for all enterprise





stakeholders is a cornerstone of success. The right choice and prioritization of processes is the next most important decision that will spell the difference between an implementation that advances the enterprise towards competitive advantage, or one that erodes internal confidence in automation and essentially take the enterprise backwards.



# **About the Authors**



**Anupam Govil** is a Partner with Avasant and the President of Avasense. With over 25 years of industry experience, he is widely acknowledged as a digital transformation and globalization advocate.

Email him at anupam.govil@avasant.com



Chirag Rawat is an Associate Director, and the Automation Practice Lead at Avasant. He has over 11 years of extensive experience with large organizations in transformation and automation initiatives.

Email him at chirag.rawat@avasant.com

## **About Avasant**

Avasant is a leading management consulting firm focused on translating the power of technology into realizable business strategies. Specializing in digital and IT transformation, sourcing advisory, global strategy, and governance services, Avasant prides itself on delivering high -value engagements through industry focused innovation and flexible client based solutions.

Email – <u>contactus@avasant.com</u> | Phone - +1 310 643 3030 | Visit us at - www.avasant.com

#### **About Kryon**

Kryon uses cutting-edge technology to make enterprise automation easily accessible, user-friendly, and profitable. Kryon's vision is to create seamless engagement between human and digital workforces whereby people's time and minds are freed to grow their potential, and businesses increase value and realize success.