



**Prodapt** powering  
global telecom

**Breaking down the barriers to scale RPA  
across the enterprise**

Credits

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# RPA Centre of Excellence – A definitive answer to DSPs' scalability challenges

DSPs across the globe are leveraging robotic process automation (RPA) to increase their operational efficiency and are at various stages in their journey. Most of them have at least tested waters with a POC, if not actual implementation. But scaling RPA and making it an organization-wide success is a big challenge.

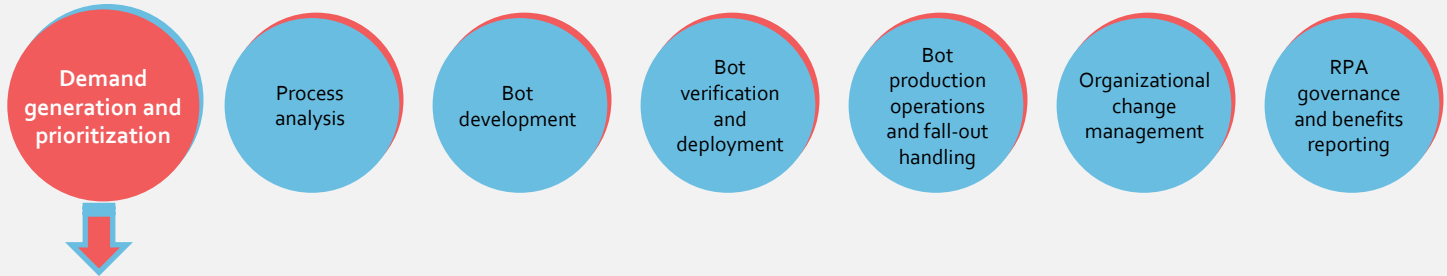


As per Deloitte's Global Robotics Report 2018, over **80% of organizations implementing RPA were happy with the results**, but only 1% of them were able to scale considerably in past 1 year (50+ bots in a year). Inability to identify appropriate use cases after initial implementations serves as the major bottleneck. Lack of end-to-end visibility of the process by the siloed business units further adds to this cause.

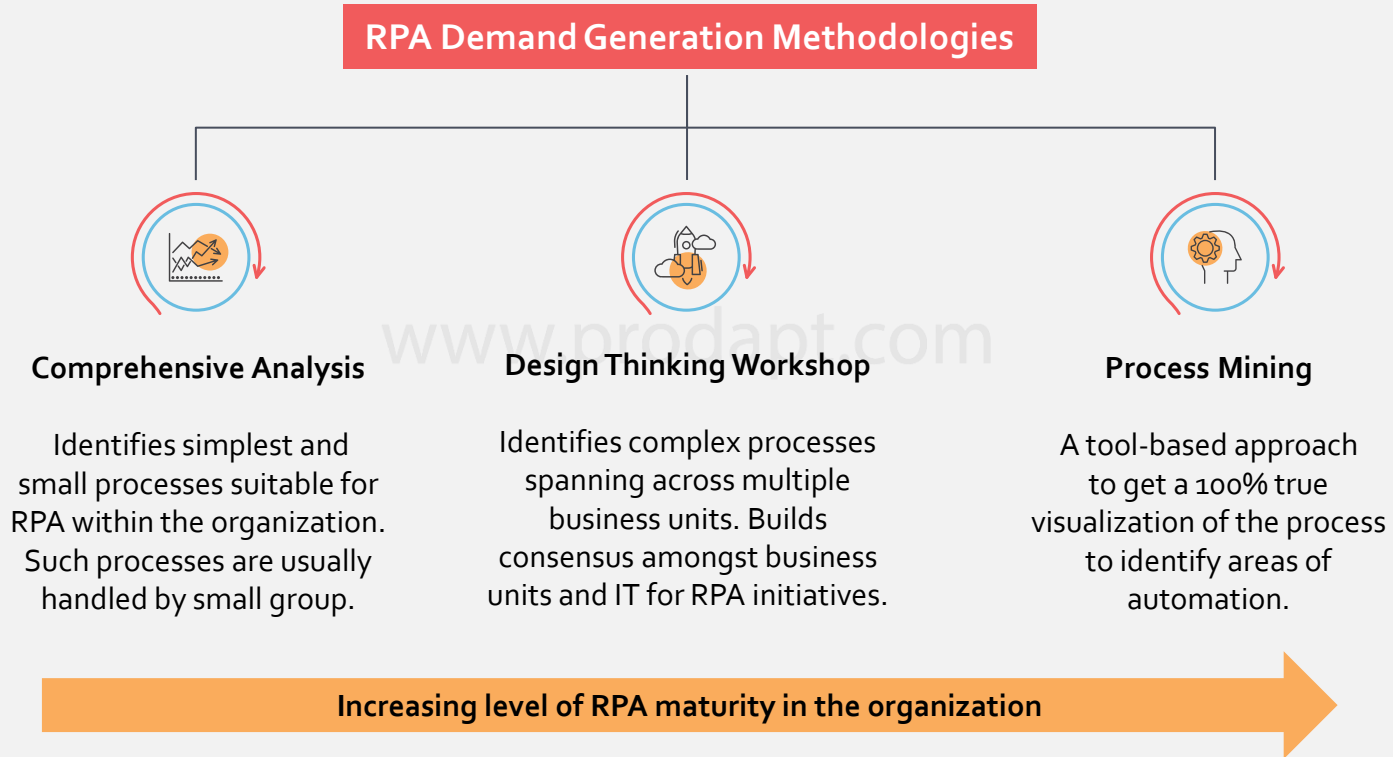


One definite answer to this is to **develop a robust Centre of Excellence**, which not only defines the best practices but also devices appropriate tools to implement them and achieve organizational goal.

Components of an ideal RPA CoE.



To scale up RPA, an organization should have a continuous pipeline of suitable processes. This insight is focused on techniques which can help to create and maintain a steady pipeline of processes ready for RPA.





**1** **Goals** - Comprehensive analysis helps in identifying high value RPA opportunities for the DSPs who are just adopting RPA and are in early stages of their journey.

**2** **Considerations** – This technique takes into consideration level of maturity, proportion of processes done in-house vs. outsourced, process details available etc.

**3** **Approaches** - The two approaches in comprehensive analysis are:

**Top down approach** - It is based on FTE allocation and analyses following operational metrics:

- FTE strength in operations
- Cost of these FTEs
- Cost allocation across functions
- FTE allocation across functions
- Level of manual intervention required in various functions

**Bottom-up Approach** - It focuses on getting into details of processes and improving them using lean Six Sigma methodologies. It analyses:

- Process complexity and standardization
  - Volume and repeatability of processes
  - Identifies non-value added tasks in the processes and analyzes how to remove them
- It involves both organizational as well as process improvement.



**5** **Deliverables** - The aim of this technique is to deliver:

- Process documents (As-Is and To-Be)
- Process improvement opportunities
- Automation opportunities
- Automation architecture and cost projection

**4** **Prospective Processes & ROI Calculations** - On the basis of combined results of these approaches, joint solutioning workshops are conducted. This is where both IT and business leadership teams are involved to narrow down on prospective processes and to create ROI projection and roadmap of automation.

# Comprehensive analysis helped a Swiss DSP in identifying 8 high ROI processes available for immediate automation



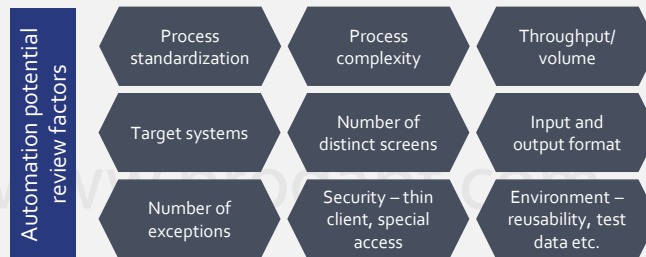
## Situation

A Swiss telecom behemoth made a strategic decision to invest in RPA. Their plan was to start small by automating few processes and ramp up over the next 3 years. **The challenge** was identification of processes, which can be easily automated while giving good ROI.

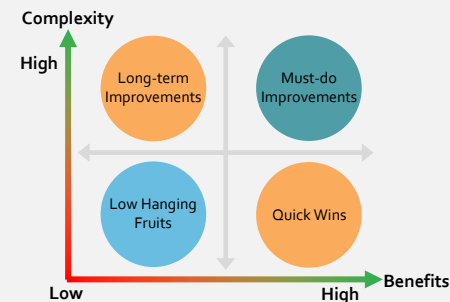
## Solution



Few core processes were picked for detailed process and technical assessment. Factors considered were:



Based on this assessment, the processes are mapped in complexity vs. benefits priority quadrant. This helps in identifying immediate high ROI targets and creating a long-term pipeline



## Result

### 8 high ROI processes

identified for immediate implementation. Examples include network inventory reconciliation, alarm and fault monitoring etc.



20%

increase in automation potential as a result of lean Six Sigma techniques used in comprehensive analysis.



50%

increase in savings as a result of process redesign.

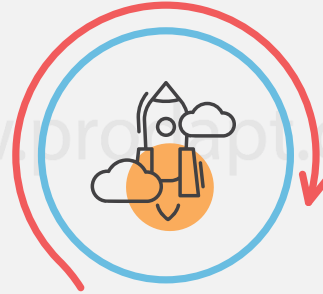


# Design thinking workshop – Ideal for complex processes, which spans across multiple business units



1 As RPA initiatives advances in an organization, it moves from automating a simple task to large and complex processes. Such **processes traverse through multiple teams and business units**. For example – Quote and invoice validation, service work-order status, promotion notifications service etc.

2 This causes **lack of end-to-end visibility of the process across business units**, leading to incomplete analysis. Also, in such processes, a lot of inefficiencies occur at the hand-off stage rather than at the siloed team stage.



3 Design thinking workshop brings together diverse set of stakeholders, from IT and business units, and get their support and consensus for RPA initiatives. It enables them to gain a holistic bird's-eye view of organizational operations and ideate automation strategy while collaborating with each other.

4 Techniques used - affinity cluster review, experience diagramming and creative matrix.

**Affinity Cluster** - Use cases suggested during the focus interviews are visually mapped out on the walls in clusters of similar functional areas.

**Experience Diagramming** - Teams to develop process maps capturing key personas, waypoints, & systems. **Rose/Thorn/Bud** used to highlight issues and opportunities.

**Creative Matrix** - A large format poster to be assigned to each team with a grid mapping key personas to solution areas. Timeboxed activity where each team is supposed to come up with creative ideas for intersection areas.

# Design thinking workshop helped a Canadian operator to save a projected \$25.5 Mn



## Situation

A leading Canadian operator underwent design thinking workshop to identify high potential processes as a part of the RPA CoE initiatives.



## Result

**150+ total use cases**

identified for implementation over a targeted timeline

**\$4 Mn savings**

achieved in 9 months

**30+ high value use**

**cases** identified for immediate implementation

**\$25.5 Mn**

projected savings

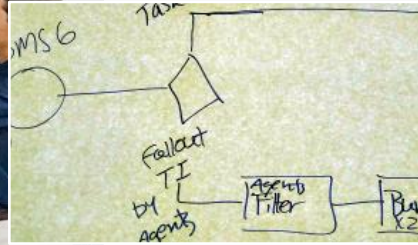
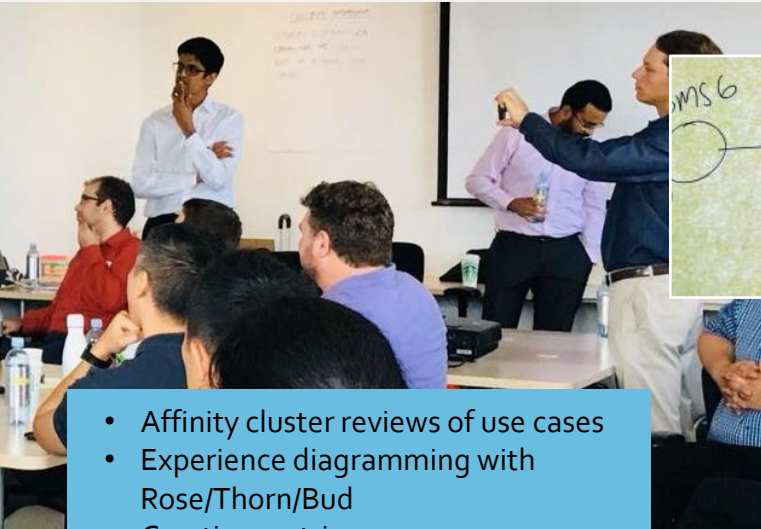


## Solution

- **Focus interviews** of senior management employees resulted in identifying **70+ use cases**
- Use cases grouped together as clusters of similar functional areas
- **4 cross functional teams** formed – representing both business and IT members
- Teams performed **affinity cluster review, experience diagramming and creative matrix** exercises on the clusters
- Result is identification of **150+ multi-function processes** suitable for RPA
- Teams asked to prioritize use cases on the basis of **importance and difficulty**
- **Consensus** on performance measurement, KPIs and other success factors built

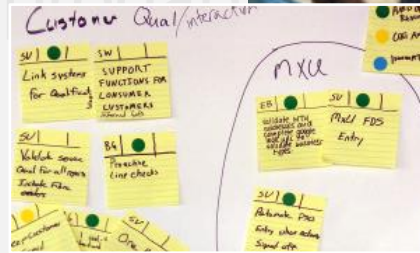


# Design thinking workshop in action in a leading DSP's headquarter



- Triage using Importance/difficulty matrix
- Buy a feature

- Affinity cluster reviews of use cases
- Experience diagramming with Rose/Thorn/Bud
- Creative matrix



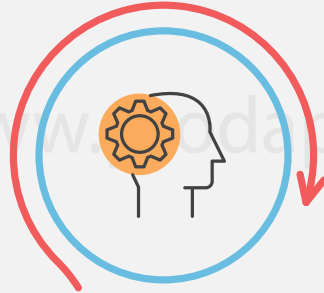
Design thinking workshop develops a holistic view of the complex processes by bringing in diverse set of stakeholders, leading to identification of automation opportunities and building consensus.

# Process mining – Ideal for processes with limited documentation



1 For any process improvement, process models are created, which are either based on **incomplete or outdated process documentation or flawed perceptions of the stakeholders**. Also, multiple stakeholders may have multiple ways of doing the same process and all of them can be inefficient.

2 Process mining tools help in **visualizing all the possible paths of doing a process using event logs** created by information systems. It builds the exact As-Is flow of the current state and aids in detailed analysis of the process.



3 These tools observe how the process is executed, how much time it takes to complete, which steps are repeated, what can be automated etc. and **helps building automation roadmap based on empirical data**.

4 All these insights help in qualifying processes for automation, which are not obvious choices otherwise.

6 This technique is suitable for organizations who have already matured in their RPA journey.

5 These tools also help in measuring benefits of ongoing automation, as it can breakdown any process and identify magnitude of automation for individual sub-processes.

# A leading DSP in UK leveraged process mining to identify and automate opportunities in highly complex purchase operations process



## Situation

A UK-based telecom giant wanted to eliminate inefficiencies in its source-to-pay process. This will result in maximizing catalogue buying and accelerating the release order to a supplier. The goal was to increase error-free purchase orders from 73% to 80%.



## Solution

- Process mining tools were implemented to identify inefficiencies and deviation, which were increasing cost and delivery time.
- The DSP's ERP systems were gathering 10 terabytes of event logs. **Process mining tools extracted real-time insights from these event logs** about the process discrepancies.
- It helped in identifying areas of low automation where RPA can be implemented.



## Result

**73% to 85%**  
increase in perfect  
purchase orders generated

**11%**  
cost-saving  
improvements

**20%**  
improvement in  
time to market

Root cause analysis  
reduced from **2 days**  
**to near real time**

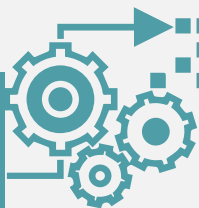
# Process mining helping in end-to-end visualization of the process and identifying potential automation opportunities



Process mining tools gets integrated with all the underlying O/BSS stacks and pull event logs to design accurate visual representation of process.



Mining Techniques



Customer accepts offer

Mined model for a sample process (Order to Activate)

Initiate supplier & partner Requisition order

Track and manage supplier & partner requisition

Receive and accept supplier & partner requisition

Start

Acquire customer data

Authorize credit

Issue customer order

Track and manage customer order

Issue service order

Track and manage service provisioning

Issue resource order

Allocate and install resource

Configure & activate resource

Track and manage resource provisioning

Implement configure and activate service

Complete customer order

End

Order activated for customer

Customer satisfaction validated

Process mining of a DSP's order to activate process

# Get in touch

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# THANK YOU!