

Agenda

- POC Objective
- POC Scenario
- Demo
- High-level Solution
- Q&A

POC Objectives

- Demonstrate automation of payment reconciliation process between outlet payment files, Credit report and Bank statement using RPA technology
- Discuss high-level solution and implementation approach to automate payment reconciliation process using RPA

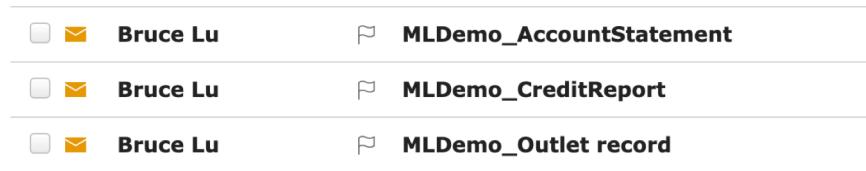
POC Scenario

Scenario:

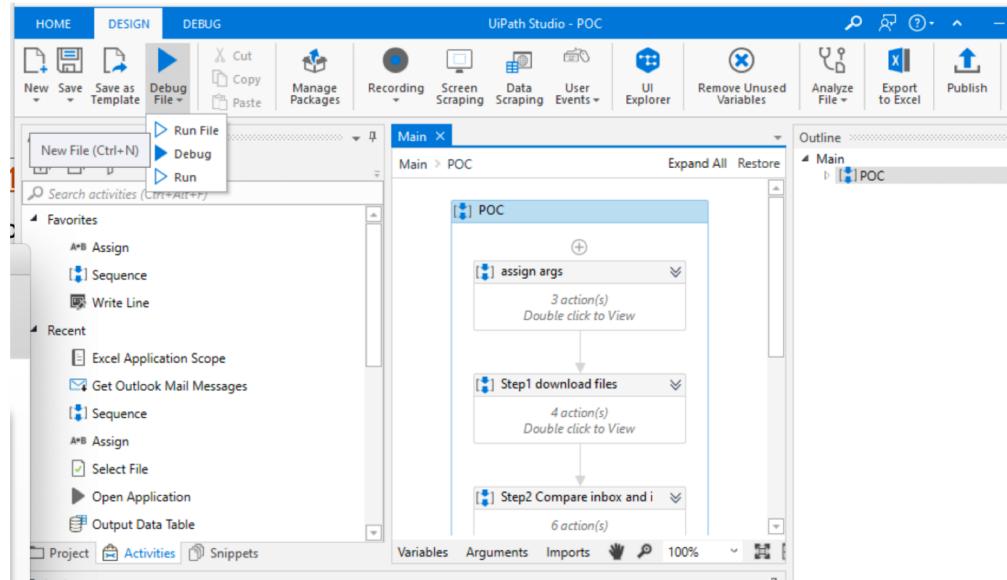
1. Retrieve the outlet records excel files (3 Aug to 7 Aug) from 1st email and save the excel files into a local folder
2. Retrieve the Credit card report from 2nd email and save the Excel file into a local folder
3. Retrieve the Bank statement from 3rd email and save the Excel file into a local folder
4. Perform reconciliation between outlet records with the credit card report - 5 days (3 Aug to 7 Aug)
5. Show the exception report
6. Resend outlet records on 3 Aug (there are some corrections)
7. Show the exception report again
8. Perform reconciliation between the credit card report with the Bank statement - 5 days (3 Aug to 7 Aug)
9. Show the exception report and the reconciliation report

POC Environment

- Web mail (uipathpoc01@gmail.com)
 - Unread emails (with excel files attachment) as seen below



- UIPath Studio in a Windows 10 OS (running in VirtualBox) that can develop and debug / run the reconciliation process



Outlets records

Outlet code:	MBS		
Date:		3/8/19	
Payment mode	Amount	Bank	Bank in date
Cash	3,300	DBS	3/8/19
Cash	109	DBS	3/8/19
Visa	8,649		
Master	8,674		
JCB			
Amex	100		
Diners	216		
Nets	3,324		
Grabpay			
Alipay/Wechat Pay	7,560		

Outlet code:	MBS		
Date:		4/8/19	
Payment mode	Amount	Bank	Bank in date
Cash	13,881	DBS	4/8/19
Visa	7,912		
Master	8,749		
JCB	739		
Amex	1,010		
Diners			
Nets	2,828		
Grabpay			
Alipay/Wechat Pay	2,911		

Outlet code:	MBS		
Date:		5/8/19	
Payment mode	Amount	Bank	Bank in date
Cash	11,531	DBS	5/8/19
Visa	8,862		
Master	600		
JCB	300		
Amex	476		
Diners			
Nets	2,575		
Grabpay			
Alipay/Wechat Pay	3,218		

Outlet code:	MBS		
Date:		6/8/19	
Payment mode	Amount	Bank	Bank in date
Cash	7,432	DBS	6/8/19
Visa	6,649		
Master	3,029		
JCB	579		
Amex	635		
Diners			
Nets	2,418		
Grabpay			
Alipay/Wechat Pay	3,770		

Outlet code:	MBS		
Date:		7/8/19	
Payment mode	Amount	Bank	Bank in date
Cash	11,707	DBS	7/8/19
Visa	4,298		
Master	5,938		
JCB	859		
Amex	525		
Diners			
Nets	3,784		
Grabpay			
Alipay/Wechat Pay	4,251		

Credit card report and recon rules (with outlet records)

Mock up sample - credit card report						
	Reconciliation process					
Objective	Match SUM of (Visa+Master+JCB) in outlet record with record in credit card report					
Step 1	Sum up Visa, Master and JCB amount in outlet record by date by outlet. The outlet is MBS in this scenario.					
Step 2	Filter by store to find the outlet code.					
Step 3	Match the date and gross amount					
Step 4	If it is match, proceed to reconciliation with bank statement					
	If it is exception, throw out as exception					
Date	Merchant	Merchan Name	Gross Amou	Commission Amour	Net Amou	STOR
1-Aug	500064913	ABC @ MARINA	\$ 11,639.00	\$ 163.65	\$ 11,475.35	MBS
2-Aug	500064913	ABC @ MARINA	\$ 11,709.00	\$ 175.06	\$ 11,533.94	MBS
3-Aug	500064913	ABC @ MARINA	\$ 17,322.90	\$ 257.44	\$ 17,065.46	MBS
4-Aug	500064913	ABC @ MBS	\$ 17,558.30	\$ 254.09	\$ 17,304.21	MBS
5-Aug	500064913	ABC @ MARINA	\$ 9,762.10	\$ 139.47	\$ 9,622.63	MBS
6-Aug	500064913	ABC @ MARINA	\$ 10,256.50	\$ 146.21	\$ 10,110.29	MBS
7-Aug	500064913	ABC @ MARINA	\$ 11,095.10	\$ 159.20	\$ 10,935.90	MBS
8-Aug	500064913	ABC @ MARINA	\$ 8,556.71	\$ 128.62	\$ 8,428.09	MBS
9-Aug	500064913	ABC @ MARINA	\$ 9,647.80	\$ 147.90	\$ 9,499.90	MBS
10-Aug	500064913	ABC @ MARINA	\$ 16,505.90	\$ 244.61	\$ 16,261.29	MBS

Exception report (outlet records vs Credit card report)

<u>Sample exception report - outlet record vs credit card report</u>				
Date	Outlet	Amount in outlet report	Gross receipt in credit card report	Differences
4/8/18	MBS	17,400	17,558	(158)

Outlets record on 3rd Aug (with correction)

Outlet code:	MBS			
Date:	3/8/19			
Payment mode	Amount	Bank	Bank in date	
Cash	3,300	DBS	3/8/19	
Cash	109	DBS	3/8/19	
Visa	8,649			
Master	8,674			
JCB				
Amex	100			
Diners	216			
Nets	3,324			
Grabpay				
Alipay/Wechat Pay	7,560			



Outlet code:	MBS		
Date:	3/8/19		
Payment mode	Amount	Bank	Bank in date
Cash	3,300	DBS	3/8/19
Cash	109	DBS	3/8/19
Visa	8,659		
Master	8,674		
JCB			
Amex	100		
Diners	216		
Nets	3,324		
Grabpay			
Alipay/Wechat Pay	7,560		

New exception report (outlet records vs Credit card report)

Sample exception report - outlet record vs credit card report				
Date	Outlet	Amount in outlet report	Gross receipt in credit card report	Differences
3/8/2019	MBS	17332.9	17322.9	10
4/8/2019	MBS	17400	17558.3	-158.3

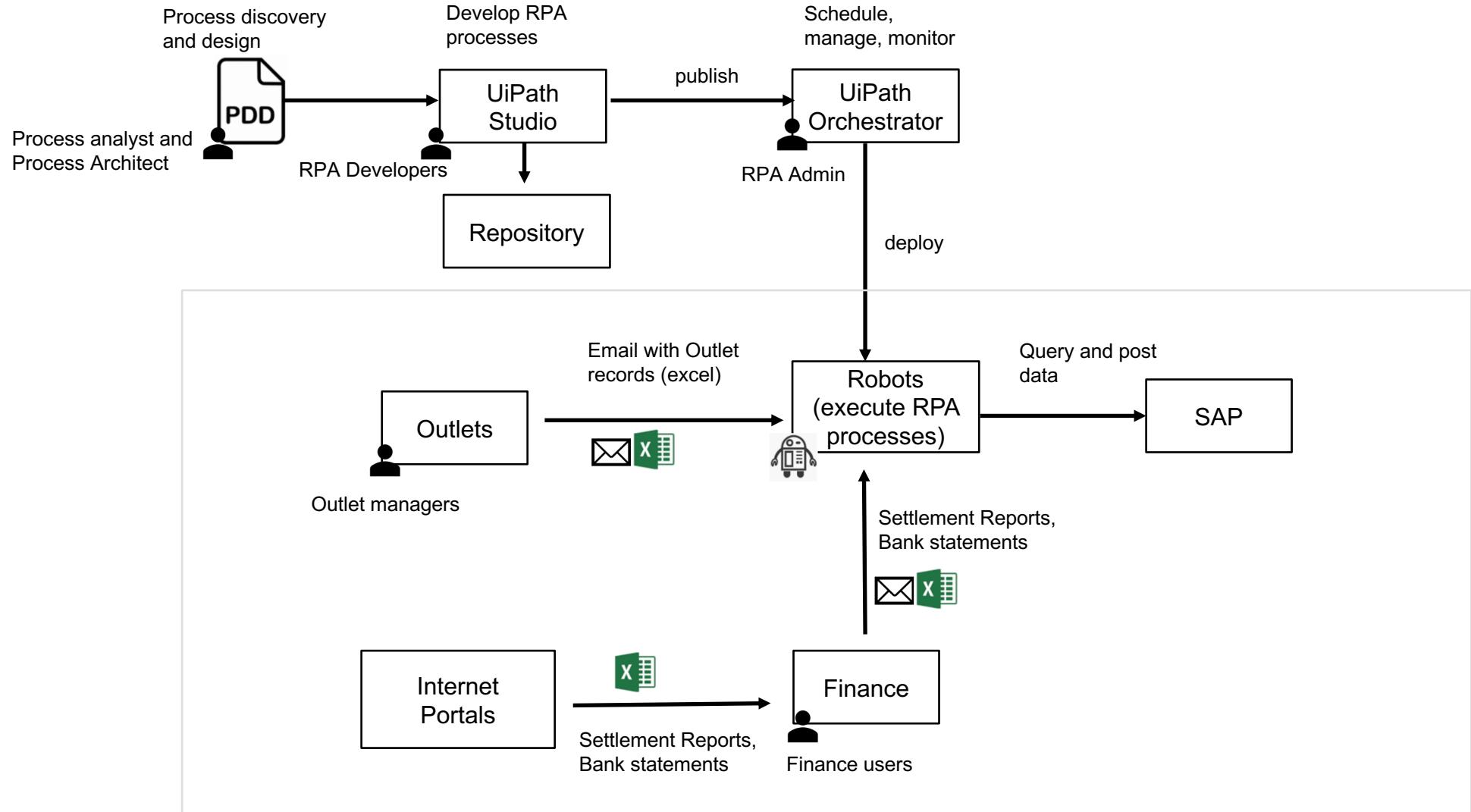
Bank statement and recon rules (with Credit card report)

Mock up sample - bank statement																																
Reconciliation process																																
Objective	Match SUM of NET RECEIPT in credit card report by date																															
Step 1 Sum up net receipt amount by date for all outlet in credit card report. In this scenario, 3 Aug to 7 Aug 2019.																																
Step 2 Filter by payment mode (column I) "CREDIT CARD" in bank statement																																
Step 3 Filter by date (column N), using T+1 of credit card report date. Eg. For net receipt on 3 Aug (T) in credit card report, fileter date 4 Aug (T+1) in bank statement.																																
Step 4 SUM the amount for all transaction with Mode = CREDIT CARD and DATE = T+1																																
Step 5 Match the amount in step 1 with step 4.																																
Step 6 If it is match, stop the process. If it is exception, throw out as exception																																
D1	Account Number	Value Date	Description	You Reference	Our Reference	Refere	Mode	Deposit	Withdrawal	Ledger Balance	Store	Date	SAP DOC																			
D2	3983112240	08/08/2019	08/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 05AUG2019 CREDIT CARD			2,361.80	-	7,066,815.82	T1					5-Aug																
D2	3983112240	08/08/2019	08/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 05AUG2019 CREDIT CARD			6,401.01	-	7,073,216.83	T3					5-Aug																
D2	3983112240	08/08/2019	08/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 05AUG2019 CREDIT CARD			7,829.58	-	7,081,046.41	T2					5-Aug																
D2	3983112240	08/08/2019	08/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 05AUG2019 CREDIT CARD			116,524.21	-	7,197,570.62	ABC DOWNTOWN					5-Aug																
D2	3983112240	08/08/2019	08/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 05AUG2019 CREDIT CARD			6,721.11	-	7,204,291.73	T4					5-Aug																
D2	3983112240	08/08/2019	08/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 04AUG2019 CREDIT CARD			2,692.09	-	7,206,983.82	T1					4-Aug																
D2	3983112240	08/08/2019	08/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 04AUG2019 CREDIT CARD			7,055.10	-	7,214,038.92	T2					4-Aug																
D2	3983112240	08/08/2019	08/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 04AUG2019 CREDIT CARD			131,217.03	-	7,345,255.95	ABC DOWNTOWN					4-Aug																
D2	3983112240	08/08/2019	08/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 04AUG2019 CREDIT CARD			6,091.37	-	7,351,347.32	T4					4-Aug																
D2	3983112240	08/08/2019	08/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 04AUG2019 CREDIT CARD			2,923.27	-	7,354,270.59	T3					4-Aug																
D2	3983112240	13/08/2019	14/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 06AUG2019 CREDIT CARD			76,862.08	-	8,059,941.33	ABC DOWNTOWN					6-Aug																
D2	3983112240	13/08/2019	14/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 06AUG2019 CREDIT CARD			7,493.53	-	8,067,434.86	T3					6-Aug																
D2	3983112240	13/08/2019	14/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 06AUG2019 CREDIT CARD			2,061.30	-	8,069,496.16	T1					6-Aug																
D2	3983112240	13/08/2019	14/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 06AUG2019 CREDIT CARD			4,362.57	-	8,073,858.73	T4					6-Aug																
D2	3983112240	13/08/2019	14/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 06AUG2019 CREDIT CARD			7,019.83	-	8,080,878.56	T2					6-Aug																
D2	3983112240	14/08/2019	14/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 07AUG2019 CREDIT CARD			2,296.47	-	8,157,467.35	T1					7-Aug																
D2	3983112240	14/08/2019	14/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 07AUG2019 CREDIT CARD			76,177.75	-	8,233,645.10	ABC DOWNTOWN					7-Aug																
D2	3983112240	14/08/2019	14/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 07AUG2019 CREDIT CARD			5,287.55	-	8,238,902.65	T2					7-Aug																
D2	3983112240	14/08/2019	14/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 07AUG2019 CREDIT CARD			3,802.43	-	8,242,705.08	T4					7-Aug																
D2	3983112240	14/08/2019	14/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 07AUG2019 CREDIT CARD			7,316.10	-	8,250,021.18	T3					7-Aug																
D2	3983112240	15/08/2019	15/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 08AUG2019 CREDIT CARD			1,717.75	-	7,742,554.60	T1					8-Aug																
D2	3983112240	15/08/2019	15/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 08AUG2019 CREDIT CARD			7,079.65	-	7,749,634.25	T2					8-Aug																
D2	3983112240	15/08/2019	15/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 08AUG2019 CREDIT CARD			7,632.42	-	7,757,266.67	T3					8-Aug																
D2	3983112240	15/08/2019	15/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 08AUG2019 CREDIT CARD			82,546.64	-	7,839,813.31	ABC DOWNTOWN					8-Aug																
D2	3983112240	15/08/2019	15/08/2019	Inward CR - GIRO	CREDIT CARDERCE (S) O 08AUG2019 CREDIT CARD			4,404.59	-	7,844,217.90	T4					8-Aug																

Exception report (Credit card report vs Bank statement)

<u>Sample exception report - credit card report vs bank statement</u>				
Date in bank statement	Outlet	Net receipt in credit card report	Amount in credit card report	Differences
14/08/2019	MBS	94,850	94,880	(30)

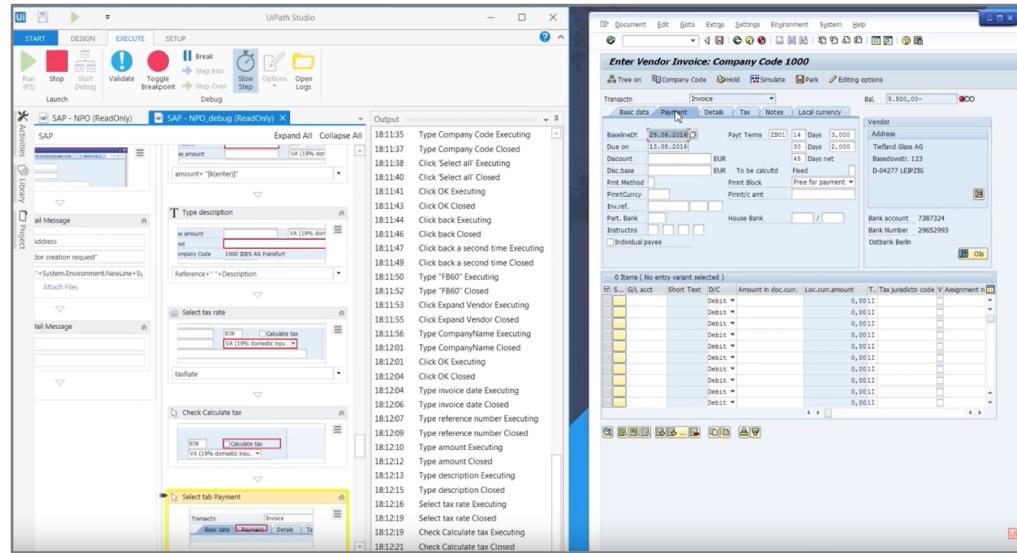
High Level Solution



How to integrate an SAP Application?

2 Options:

- `UiPath.SAP.BAPI.Activities` pack
- GUI Scripting based on Recording or Data Scraping, together with SAP specific Automation Technics (open Application + Click Activities, Type into



Pre-requisite:

For the scripting there need to be the SAP GUI scripting been enabled on Client and Server side

Limitations:

Only one of the clients should run on the same Robot environment.
SAP GUI for Windows or SAP Business Client

Key areas of considerations for Process and Solution Design

- What are business needs
- What RPA Tool is capable
- What to be automated, hybrid and manual

Overview of Typical Use Cases for RPA



Typical RPA Use Cases (1/2)

Sales & Distribution (SD), Human Capital Management (HCM) and Supply Chain (SCM)

Financial Services and Banking

Automate data validations, data migration between banking applications, customer account management, report creation, comparing mortgage values between cities, **form filling**, financial claims processing, updating loan data and backing up teller receipts.

Technology / Software

Hardware and software testing for functional, load and mobile performance.

Telecommunications

Collecting and consolidating data from client phone systems, backing up information from client systems, **uploading data**, extracting data about competitor pricing, phone manufacturing information, etc.

Manufacturing

ERP Automation, automation of logistics data, data monitoring, product pricing comparisons.

Government

Populating subcontractor forms, verification processes, integrate legacy systems with newer systems, **automating daily reports**.

Healthcare

Patient data migration and processing, reporting for doctors, medical bill processing, insurance data automation and claim processing, triggering emails from medical billing systems, claim status and eligibility automation, and patient record storage.

Typical RPA Use Cases (2/2)

Hospitality

Competitor pricing analysis, guest data processing, data verification, payment processing, user account creation.

Retail

Extracting product data from manufacturer's websites, automatic online inventory updating, importing website and email sales

Procure-to-pay:

Automate the transactional work related to obtaining and routing items, and ensure data flows seamlessly between systems.

Quote-to-cash:

Expedite sales processes, automating quoting, pricing, order management, invoicing and payment.

HRM Automation:

Automate payroll and benefits administration, compliance reporting, and more.

Claims Processing:

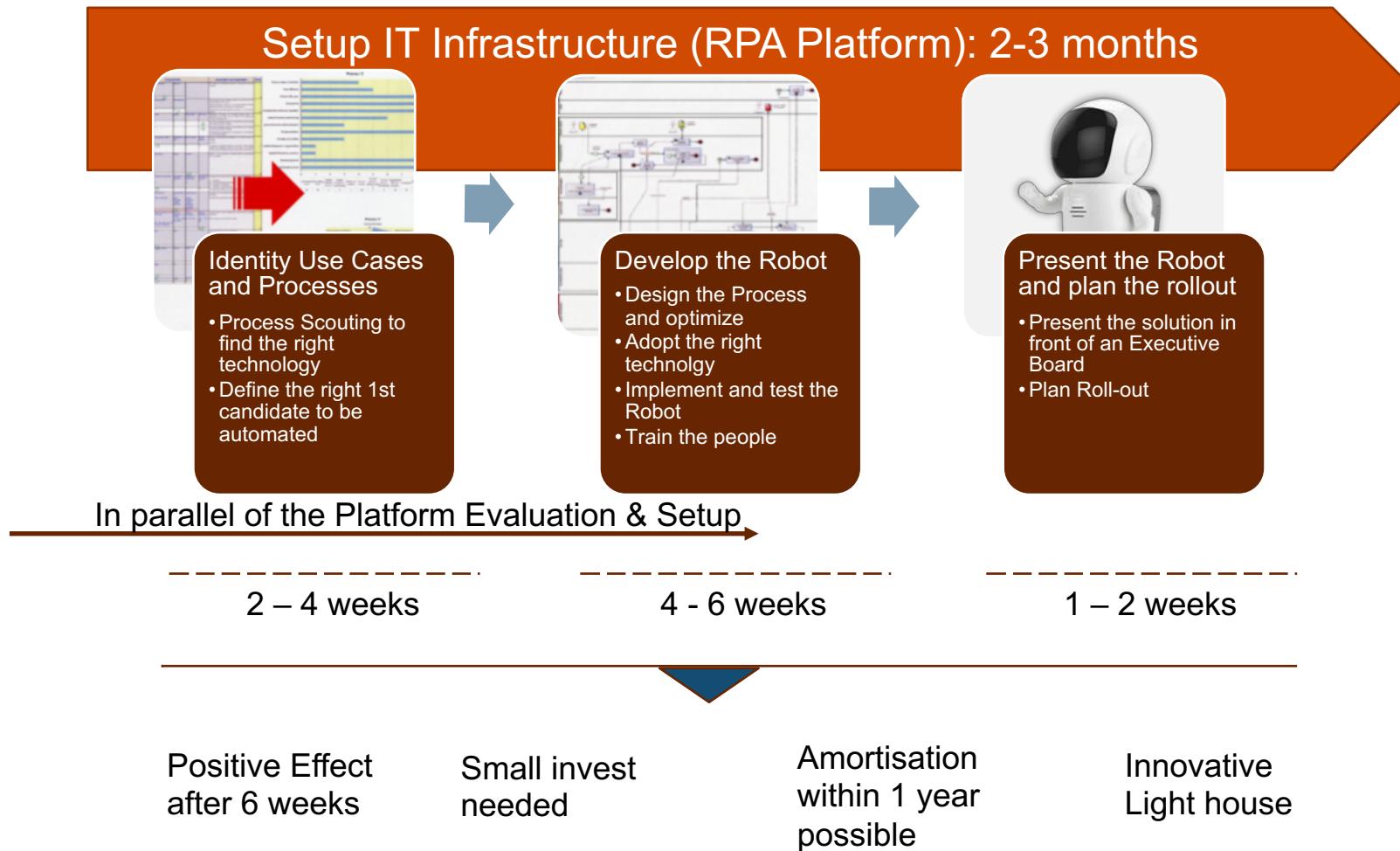
Automate administrative and customer service activities related to receiving, reviewing, analyzing and remitting claims.

Consumer Goods:

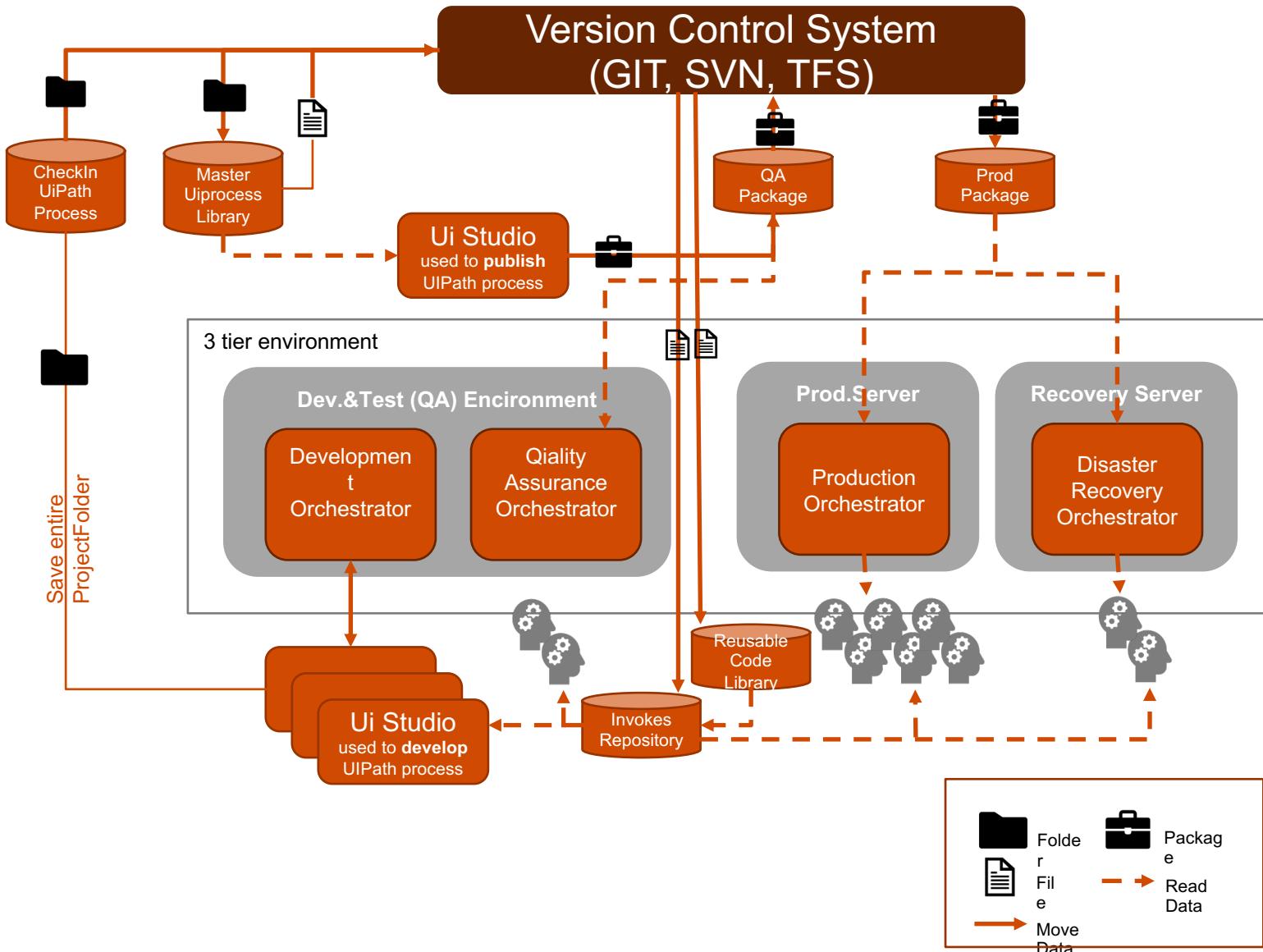
Order processing, data entry, resolution consulting, claims processing, FTP automation, incentive claims processing

(3) Robotic Process Automation

Example of an Implementation Roadmap to foster Agility

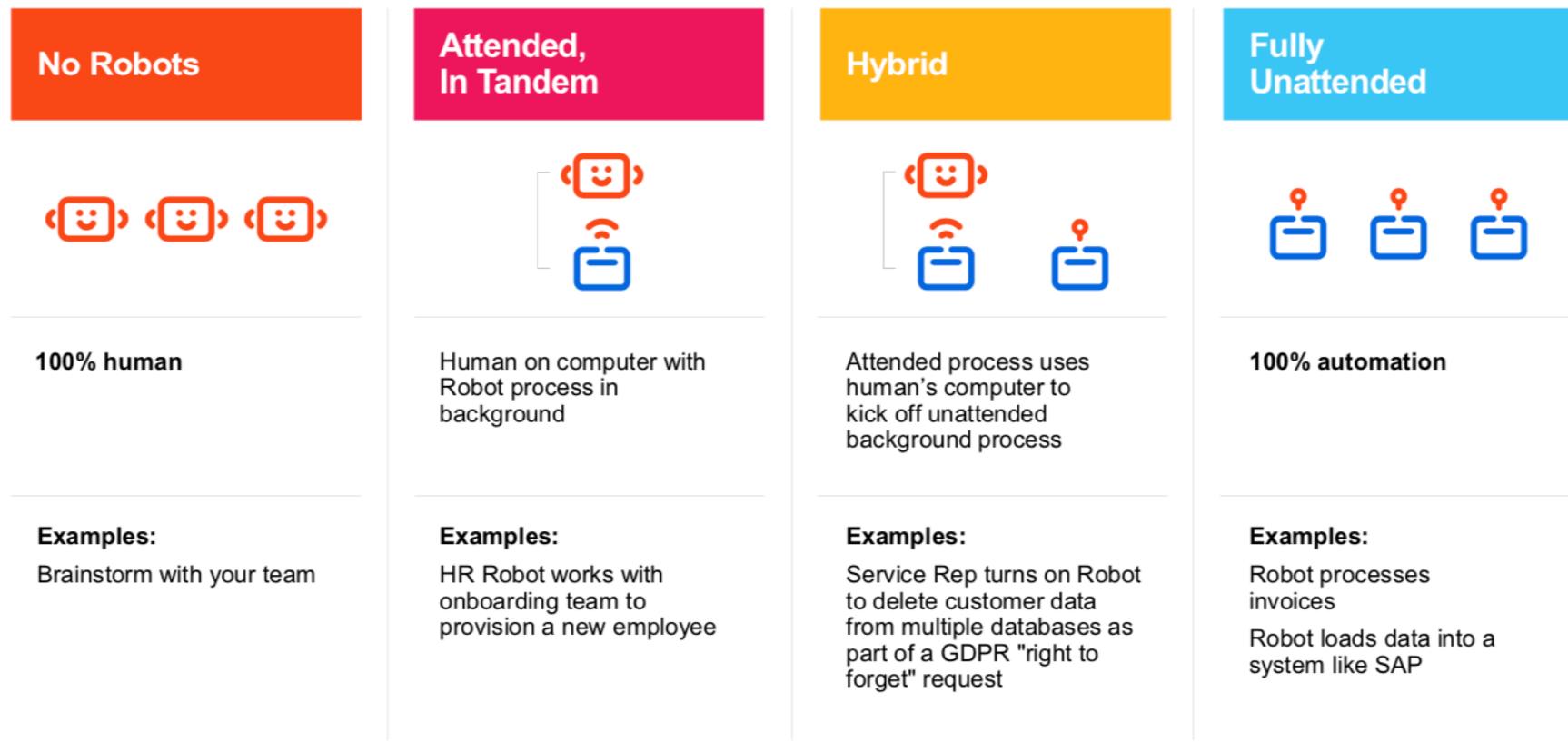


Build – Deploy - Run



UiPath Robots

The human-robot engagement spectrum



Attended Robot



Unattended Robot