

# Hidden Challenges of RPA and How to Overcome Them

**Successful Business Cases** 



# Hidden RPA Challenges



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# Hidden RPA Challenges



RPA - a very attractive concept for Financial Companies:

- Promise of a quick ROI
- Large FTE Savings

• 30-50% of RPA projects fail

Why?

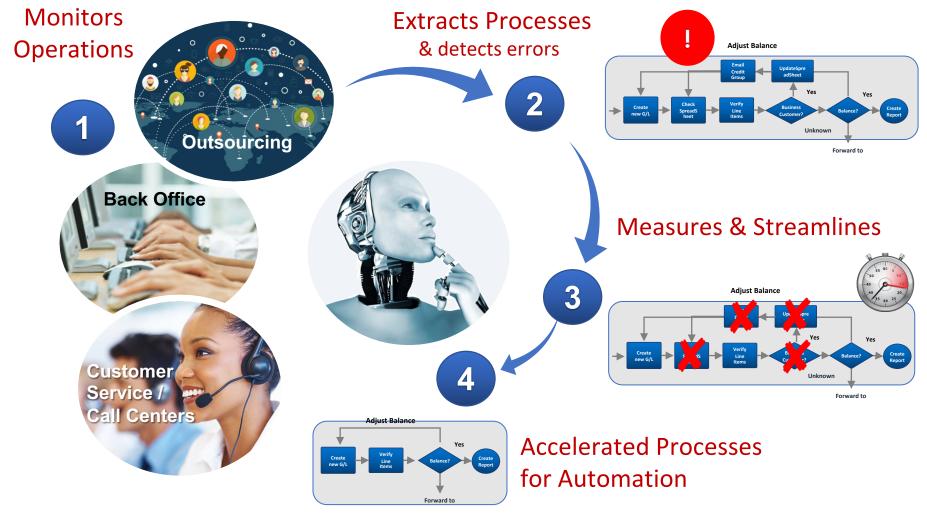
# Hidden RPA Challenges



- How to correctly understand the "As-Is" processes?
  - Typically it takes 40% of project time
  - Risk of misunderstanding the process
- Process improvement before RPA Implementation
  - How to measure the process time?
  - Often processes are automated without prior improvement
- Finding most appropriate process/fragments for RPA
  - Automating processes that are easy to automate, instead of processes bringing significant savings
  - How to calculate ROI before the automation?
  - Practical FTE Savings ~30% instead of expected 60-80%
- Generating precise RPA input specifications

## StereoLOGIC Automated Process Discovery & Measurement





5X Acceleration, 100% Accuracy



# Canadian Bank RPA Acceleration: Business Case with StereoLOGIC

Canadian Bank RPA Acceleration:

**Business Case with StereoLOGIC** 

# Executive Summary



**GOAL** 

Rapid discovery of bank back office processes and identification of automation opportunities and savings

SCOPE

2-week pilot project

• Recorded 1,276 cases for 2 processes:

• Discharge: 6 employees, 505 cases

• Collateral Discharge: 4 employees, 771 cases

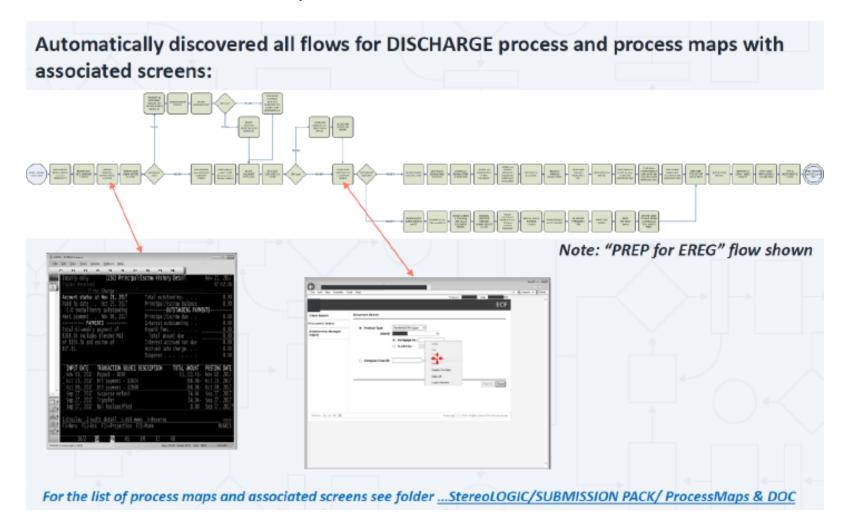
RESULT

- 1. Automatically discovered, measured and mapped both processes with all flows (incl. clean path and exceptions)
- 2. Generated the list of best candidates for automation based on time-saving criteria
- 3. Calculated FTE savings for the Automation Business Case:
  - Discharge Process FTE Savings up to 81%
  - Collateral Discharge Process FTE Savings: Ontario up to 30%, BC up to 27%

Proposed approach enables iterative RPA implementation

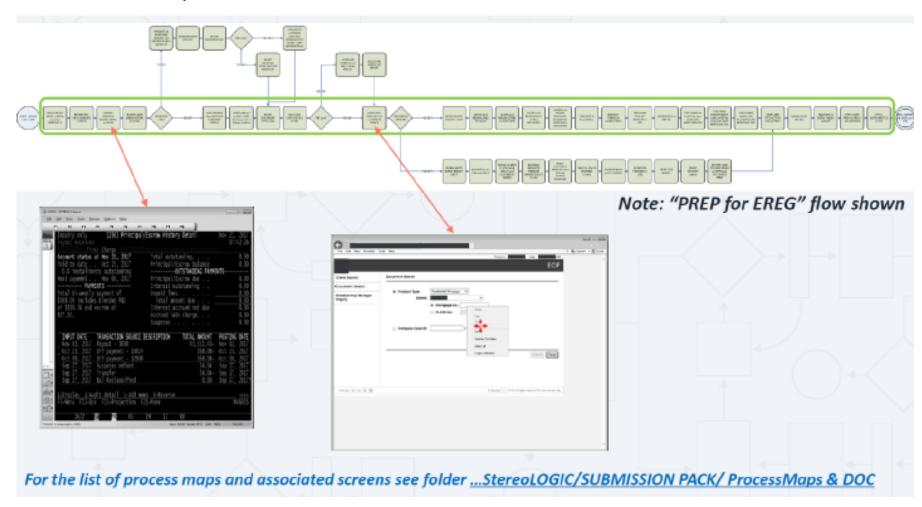


## 1. Generated Process Maps and Associated Screens



# stereo

## 2. Identified Repeatable Patterns





## 3. Generated Details Time Metrics & Calculated Savings for Each Repeatable Pattern

High-level Activities	Detailed Activities	Time	% of Total Flow Time	MIN Saving	MAX Saving	
	START - ACCESS CASE In DDC	00:00:01.508	0.79%			
1. Access the Case	ACCESS INITIAL MENU in EXTRA and enter MORTGAGE ID	00:00:06.323	3.31%	3.31%	3.31	
	REVIEW MTG INFO SUMMARY IN EXTRA	00:00:00.988	4 0.52%	0.52%	0.52	
7.63%	REVIEW PRINCIPAL HISTORY DETAIL IN EXTRA	00:00:02.002	1.05%	1.05%	1.05	
	REVIEW LOAN MEMO HISTORY in EXTRA	00:00:03.741	1.96%	1.96%	1.96	
	COPY ADDRESS from MTG INFO SUMMARY SCREEN	00:00:01.512	0.79%	0.79%	0.79	
<ol><li>Transfer Case-related data from one system to another</li></ol>	PASTE address to DDC > discharges tab > Primary address	00:00:02.279	1.19%	1.19%	1.19	
2.47%	SELECT DOCUMENT TYPE in DDC	00:00:00.921	0.48%	0.48%	0.48	
	SELECT and COPY MTG ID in EXTRA	00:00:05.111	2.68%		2.68	
3. Access and review case-relate	REVIEW SEARCH RESULTS In ECIF	00:00:02.439	1.28%		1.28	
	ACCESS and REVIEW LAND TITLES ACT	00:00:06.305	3.30%		3.30	
documents	ACCESS and REVIEW LETTER of DIRECTION	00:00:07.774	4.07%		4.07	
18.97%	ACCESS and REVIEW STATE of TITLE INSURANCE	00:00:10.553	5.53%		5.53	
	ACCESS and REVIEW DUPLICATE REGISTERED MORTGAGE DOCUMENT	00:00:04.037	2.11%		2.11	
	COPY MTG ID from EXTRA	00:00:05.825	3.05%		3.05	
1/	NAVIGATE THROUGH SHARED DRIVE	00:00:02.840	1.49%	1.12%	1.49	
4. Generate and fill out new La	nd OPEN LAND TITLE ACT TEMPLATE IN PDF	00:00:04.344	2.28%	1.71%	2.28	
Title PDF document based on	PASTE MTG ID to PDF file	00:00:03.128	1.64%	0.41%	1.64	
data from previously opened de	OCS TYPE PARCEL ID in PDF file from DUPLICATE MORTGAGE DOC	00:00:17.574	9.20%	2.30%	9.20	
	TYPE LEGAL DESCRIPTION of LAND in PDF file from DUPLICATE MORTGAGE DOC	00:00:35.301	18.49%	4.62%	18.49	
55.75%	TYPE CHARGE NUM in PDF from DUPLICATE MORTGAGE DOC	00:00:11.737	6.15%	1.54%	6.15	
	SEND LAND TITLE ACT PDF DOC to PRINT	00:00:08.184	4.29%	3.21%	4.29	
$\rightarrow$	SAVE & CLOSE PDF FILE	00:00:17.524	9.18%	6.88%	9.18	
	NAVIGATE to EXTRA - MEMO UPDATE	00:00:06.979	3.66%	3.66%	3.66	
5. Wrap up and update the log	s TYPE in NOTE: PREP for EREG + CHARGE NUM	00:00:10.124	5.30%	5.30%	5.30	
4	TYPE in INSTRUMENT ID in DDC	00:00:08.305	4.35%	4.35%	4.35	
15.18%	END - UNHOLD and SAVE case in DDC	00:00:03.584	1.88%			
	Total flow time	00:03:10.942	100.00%	44.40%	97.33	
	*time is shown in hhummus format	Fully automated steps	Partially automated steps		>	



## 4. Calculated FTE Savings for the Automation Business Case

#	Flows with repeatable patterns	Flows time, hh:mm:ss	% of Total Discharge Time	MIN Potential Savings, % from Total Discharge time	MAX Potential Savings, % from Total Discharge Time
1	Discharge processes	11:02:04	44.11%	21.01%	38.24%
2	Refinance processes	3:29:14	13.94%	5.31%	9.67%
3	Transfer processes	1:13:51	4.92%	1.88%	3.41%
1	PREP for EREG process	3:55:56	15.72%	6.98%	15.30%
5	Other - Unhold with EREG ID update	0:22:55	1.53%	1.53%	1.53%
5	Other - LTSA files submission	0:43:03	2.87%	2.87%	2.87%
7	Based on the work queue agents do not know which cases should not be touched. Therefore, they have to access them, review and comment before closing without any meaningful work:		0.00%		
	- hpp cases	2:10:24	8.69%	8.69%	8.69%
١	- already discharged cases	0:07:16	0.48%	0.48%	0.48%
3	There are some cases which are just opened and closed with no action took on them. Most likely, this happens when agents are determining which cases to process first.	0:09:11	0.61%	0.61%	0.61%
9	Other flows (no repeatable patterns)	1:47:05	7.13%		
	Total	25:00:59	100.00%	49.36%	80.80%

# Executive Summary



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of Automation Opportunities and Savings

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RESULTS:

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# East West Bank

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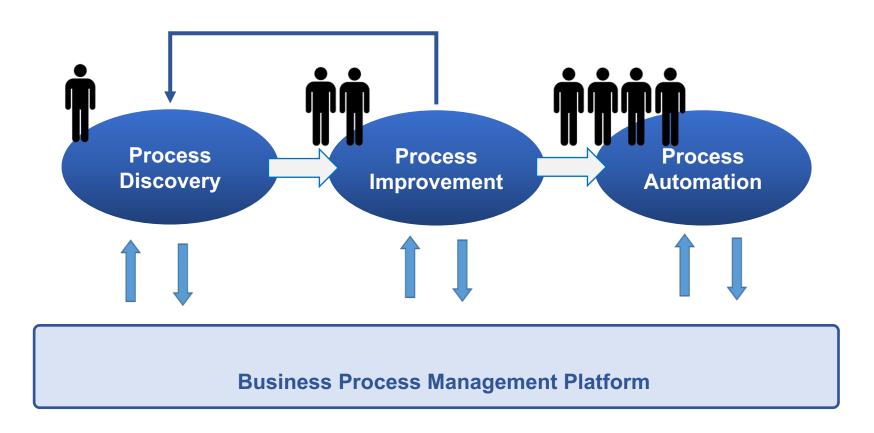
# Challenges to Robotic Process Automation



- Lack of Enterprise-Wide Understanding and Strategic View of RPA
  - What is Robotic Process Automation?
  - Is there a Enterprise Automation Roadmap?
- Missing IT Leadership and Support
  - Getting IT's involvement as soon as possible
  - Joint effort between IT and Business for RPA
- Missing an end to end effective approach/tool to discover, prioritize, and implement RPA opportunities
  - How to correctly understand the "As-Is" processes
  - Improving Process Efficiency before RPA
  - How to find most appropriate process fragments for automation
  - Generating precise RPA specification

# Business Process Management Reality





# Process Discovery and Improvement Project with StereoLogic Process Analytics



#### Goal: To accelerate Processes Improvement

- Baseline processes and time
- Standard operating procedures
- Control that all processes' steps are performed
- Measurement of time spent on each step
- Identify inefficiencies, potential points for improvement and automation

## Project Time Frame and Processes - 1 week + 3 weeks extension

- People resource used: 1 week + 1.5 weeks extension
- Employees recorded: ~10
- 6 types of processes were analyzed:
  - CTR Cash Transactions Reporting
  - Non-Post
  - Non-Post Branch Validation
  - Funding
  - Onboarding
  - Documents production

## Post Project – 3 additional months

# Project Results



- Documented baseline comprising of several sub processes
- Time measurement of key steps within the process
- Time to resolve each transaction within a single process instance

#### Non-Post and Branch Validation Processes

Detected inefficiencies and potential savings – up to 60%

#### **Funding and Onboarding Processes**

Detected inefficiencies and potential savings – up to 40%

#### Documents Production Process (HELOC Processes)

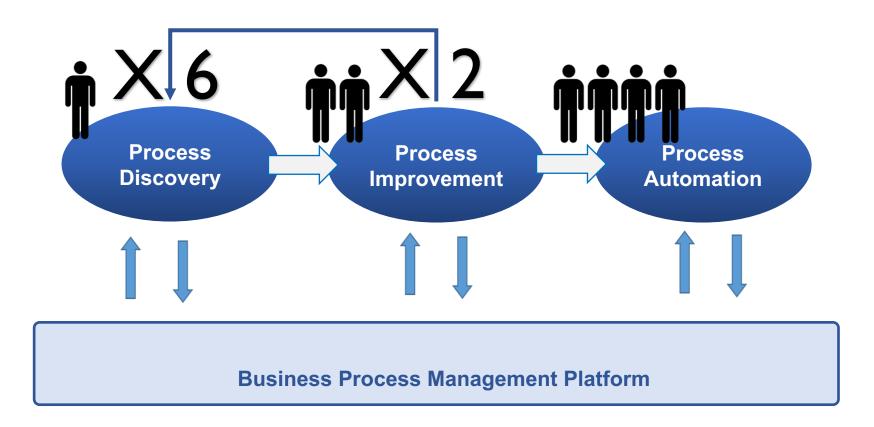
- List of data fields transferred between applications
- Time wasted on transferring data fields between applications
- Detected inefficiencies and potential savings up to 33%

### **Cash Transaction Reporting:**

- Create Desktop Procedure within one week improvement from months and multiple resources
- Uncover additional improvement opportunities use Calculator to verify Excel Spreadsheet Results

# Business Process Management Reality





# Savings with StereoLOGIC



Duciost Astivity		Without StereoLOGIC				With	
Project Activity	Conservative		Max		StereoLOGIC		
1. Process Analysis							
Analysis (Weeks)		4		4		1	
Analysis (\$)	\$	10,000	\$	10,000	\$	2,500	
2. RPA Implementation							
Initial Development (Weeks)		4		4		3	
	\$	10,000	\$	10,000	\$	7,500	
3. Re-Work							
Re-Work - Conservative, 25% (Weeks):		1		6		0	
	\$	2,500	\$	16,000	\$	-	
TOTAL COST (\$):	\$	22,500	\$	36,000	\$	10,000	
TOTAL TIME		9		14.4		4	

	without		vvitn	
	StereoLOGIC		S	tereoLOGIC
BALANCED COST of an RPA project (\$) - 25%MAX, 75%CONS:	\$	<u> 25,875</u>	\$	10,000
BALANCED TIME of an RPA project - 25%MAX, 75%CONS:		<u>10</u>		<u>4</u>
Total saving per an RPA project (\$)			\$	15,875
Total saving per an RPA project (%)				61%
Annual Cost of RPA Development Team (\$)			\$	2,400,000
Annual RPA Team Cost Savings with StereoLOGIC			\$	1,472,464

# Savings with StereoLOGIC



2.2 - Back Office Team	Total Cost	Annual	RPA savin StereoLO		Stei	A savings with reoLOGIC
Back Office Staff (\$)	\$	15,000,000	\$	3,000,000	\$	9,000,000
Sr. Back Office Staff (\$)	\$	2,400,000	\$	480,000	\$	1,440,000
TOTAL COST (\$):	\$	17,400,000	\$	3,480,000	\$	10,440,000
Annual Back Office Cost Savings with StereoLOGIC						6,960,000
Total Cost Savings with StereoLOGIC					\$8	8,432,464