

THE ICC, BIRMINGHAM 1-3 DECEMBER

Spirit Energy UiPath Use Case Review – Barrier Report

1st December 2019

ENGAGING MINDS | EMPOWERING SUCCESS

#UKISUGCONNECT



Agenda

- 1. Introductions
- 2. Spirit Energy RPA/Automation PoC Objectives
- 3. SAP driven Barrier Model Report Use Case Overview
- 4. Barrier Model UiPath RPA Solution Demo & Benefits
- 5. Spirit Energy RPA/Automation next steps
- 6. AG: Opportunity for UiPath Automation in SAP
- 7. Q&A

ABOUT SPIRIT ENERGY

- Spirit Energy was created in 2017 following the combination of Centrica E&P and Bayerngas Norge
- Spirit Energy are one of the top independent oil and gas exploration and production companies in Europe, with operations spanning UK, Norwegian, Dutch and Denmark
- The team of 800+ are committed to the development of oil and gas reserves in Europe, overseeing production of 50 million barrels of oil equivalent per year (mmboe)
- Spirit Energy has operated and non-operated interests in 33 producing fields and nearly 150 exploration licenses, and focuses on maximising the potential of these assets throughout their lives



ABOUT UIPATH



Enterprise Software Company in History

2,100+

Enterprise Customers

2,000+

UiPath Employees

\$7Bn Valuation

Category Leader



Figure 1. Magic Quadrant for Robotic Process Automation Software



www.uipath.com

Path

ABOUT AG CONSULTANCY & APPS LTD

- 1. UK HQ + India Off-Shore Delivery centre + Satellite Offices
- 2. SAP Gold Partners
 - SAP Quality Awards Finalists 2017 & 2018
 - SAP Quality Awards Gold Winner Innovation 2019
 - SAP Recognised Expertise's in multiple disciplines (Inc' Asset Management)
- 3. UiPath & Automation focussed
- 4. Known for Delivering Quality Outcomes, Flexibility, Agility & Value









Why RPA?

In every company we see

people behaving like robots

(i.e. doing mechanical things),

tomorrow we're going to have

robots behaving like **people!**

3

'Computer vision' enables automation in every enterprise setting, including remote desktops

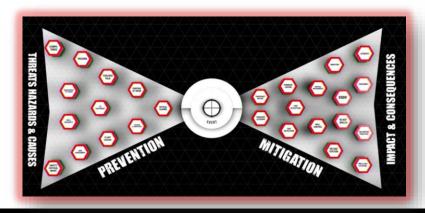
Many benefits of outsourcing have already been reaped

Employees use many tools, it is not viable to automate or integrate all of these tools with traditional interfaces



- 1. Spirit Energy keen to understand more about the potential of RPA/Automation
- 2. Initial discussions set about identifying and prioritising potential 'Use Cases'
- 3. An unplanned change to the team presented an opportunity to de-risk and drive desirable efficiency gains for a high complexity safety critical report
- 4. The Barrier Model Report focussed on assuring safety for Major Accident Hazards





BARRIER MODEL REPORT OVERVIEW



- 1. Barrier review report is a Work order report by asset and work discipline to show the integrity of the Barriers and review the mitigations in place
- 2. It is created using **3 different sources**: previous historical data and two SAP transactions: IW39 and IP19;
- 3. It requires more than 90+ Step process to Create, Transform, Publish and typically **6 hours to produce** (without distraction);
- 4. It is issued every week on Monday.

BARRIER MODEL REPORT STEPS

Ryusi - Millon wast MOSI - CPC. MOP4 - OP4 MCPI-CPC 6 - DP6 6 SEN BSDI-CPC. MOP3 - OPB 8 - 088 MOPI - CPC DEPA -DPPA Rhly - DPPA MAPI - CPC. RUNNING THE BARRIER MODEL REPORT

BCAL - CALDER.

- * BARRIER MODEL REPORT TO BE RUN ON MONDAYS *
- * ONLY NEED TO WORK ON TABS CALLED "CR ASSESSMENT" AND "WORK ORDER SOURCE" *

* DON'T NEED TO TOUCH ANY OF THE YELLOW TABS '

* SOURCE DATA FROM S:COMMON/BARRIER MODELS *

TO CREATE MASTER DATA SET WHICH FEED BARRIER MODELS, FOLLOW STEPS BELOW:

STEP 1

- 1. ACCESS PREVIOUS WEEKS BARRIER MODEL REPORT FILES FROM S:COMMON/BARRIER MODELS AND CREATE COPIES WITH UPDATED DATE STAMP IN DOC AND FOLDER TITLE
- 2. ACCESS RREVIOUS WEEKS 'SAP EXPORT [DATE]', FILE WHICH AND CREATE & COPY WITH UPDATED DATE STAMP IN TITLE
- 3. GLEAR CONTENTS OF, 'SAP EXPORT [DATE]' FILE READY FOR DOWNLOAD OF NEW DATA. FROM FOLLOWING STEPS
- 4. LOG INTO SAP, TRANSACTION IW39, PICK UP VARIANT MR/IW39 (REIDMO7) AND EXECUTE, SELECT LAYOUT 'AC SC BARRIERS' - JB-GALLIER
- concert-FOLDER OR COPY ALL DATA AND POPULATE THE BLANK ONE FROM PREVIOUS WEEK.
- 6- SAP TRANSACTION ZPM_IP19, TO DATE: END OF YEAR. FROM DATE: TODAY. ADD OFFSHORE ASSETS *MCP1*, *DPPA* ETC. ORDER TYPE: UM01 & UM02. MAT: SFC, SFF & EXM.
- 7. ALTERNATIVELY SELECT VARIANT AC/ZPMIP19 BARRIER REPORT AND CHANGE THE DATES 8. SELECT LAYOUT /AC BARRIER - BARRIER MODELS LAYOUT JS - Gerrar Somart 9. EXPORT FILE TO SCBM FOLDER AS ANY RELEVANT NAME E.G. EXPORTZPMIP19.
 - 10. COPY ALL DATA FROM EXPORTZPMIP19 TO SCBM 'SAP EXPORT [DATE]' FILE AS ADDITIONAL
 - SHEET X (TAB)
 - 11. CONVERT MI & WO COLUMNS TO NUMBERS
 - 12. HIGHLIGHT ALL AND SORT BY WO NUMBER
 - -13. HIGHLIGHT ALL ROWS WITH A WO NUMBER IN IT AND DELETE
 - 14. CONVERT REMAINING FLOC ENTRIES TO TEXT SUCH AS EIS-DPPA-1902 = DPPA
 - (COLLECTIVELY MCP1, MAP1 & MDP1 = CPC), MDP3 = DP3 ETC
 - 15. COPY REMAINING DATA ACROSS TO SHEET 1 UNDER CORRESPONDING HEADING (DUE DATE = LAFD) BUT AT THE BOTTOM OF THE PAGE AND DELETE SHEET 2.
 - 16. IN SHEET 1 FILTER ON BLANK DESCRIPTION TO SHOW NEW ADDITIONS
 - 17. IF NO ORDER NUMBERS, ADD TBC
 - 18. IF MI PRESENT, ADD ORDER TYPE UM01
 - 19. ORIGINAL DUE, BASIC START, EAFD & USER STATUS = TBC
 - 20. COPY THESE VALUES DOWN AGAINST ALL MI NUMBERS WITH 'BLANK' ORDERS 21. SEARCH FOR THE MI'S WITH 'BLANK' DESCRIPTIONS IN SAP TRANSACTION IP18. USE LAYOUT MI, MI DESC, MWC & MAT. ALTERNATIVELY SELECT LAYOUT /AC BARRIER2 -BARRIER MODEL LAYOUT2

- 22. EXPORT TO EXCEL AND COPY 'SAP EXPORT [DATE]' AS SHEET X THEN CONVERT MI TO NUMBER.
- 23. BACK INTO 'SAP EXPORT [DATE]' DESCRIPTION = VLOOKUP(B:B,SHEET X A:B,2,0). 24. IF DESCRIPTION COMES BACK AS FORMULA, CHANGE FORMATTING TO GENERAL. SELECT FIELD AND HIT RETURN WHICH WILL CONVERT TO TEXT.
- 25. DRAG DOWN FULL SHEET, CHECK ALL DESCRIPTION FIELDS ARE NOW POPULATED
- 26. CARRY OUT SAME EXERCISE FOR MAT WITH: VLOOKUP(B:B,SHEET X A:D,4,0) 27. DRAG DOWN FULL SHEET, CHECK ALL MAT FIELDS ARE NOW POPULATED
- 28. CARRY OUT SAME EXERCISE FOR MWC WITH VLOOKUP(B:B.SHEET3 A:D.3.0)
- 29. DRAG DOWN FULL SHEET, CHECK ALL MWC FIELDS ARE NOW POPULATED
- 30. CLEAR ALL FILTERS, COPY FULL SHEET, PASTE SPECIAL VALUES
- 31. DELETE SHEET X
- 32. SAVE

STEP 4

- 1. SELECT TBC FROM FILTER (WO'S) AND ADD N/A IN DEFERRAL COUNT COLUMN
- 2. CLEAR FILTER TO SELECT ALL AND THEN DESELECT TBC FROM FILTER (WO'S ONLY) 3. HIGHLIGHT AND COPY LIST OF WORK ORDERS AND RUN IN SAP ZW38, ENSURE 'PERIOD'
- FIELD IS CLEARED BEFORE EXECUTE To Some 4. SELECT LAYOUT /ACDEFERRAL WO & DEFERRAL COUNTER (ORDER/DEFERRAL COUNTER)
 - EXPORT TO EXCEL, COPY COLUMNS A&B TO 'SAP EXPORT [DATE]' AS SHEET X
 - 6. CONVERT COLUMNS TO NUMBER
 - 7. BACK IN SHEET 1, DEFERRAL COUNT = VLOOKUP(C:C,SHEETXA:B,2,0)
 - 8. COPY THE DEFERRAL COUNTS AND PASTE SPECIAL VALUES FOR ENTIRE COLUMN
 - 9. CLEAR FILTERS, DELETE SHEET X
 - 10. SAVE

A STEP 5

Si.

- 1. OPEN THE ICP FILE FROM SAM, ADJUST ROW HEIGHTS AND COPY/PASTE FOLLOWING COLUMNS INTO EXPORT FILE AT BOTTOM: ASSET/ (LOCATION)/UNIQUE NUMBER (WO)/ COMMITMENT DATE (LAFD)/ RESULT (WO DESC)
- 3 2. COPY FORMAT OF ANY NON ICP ACTION ROW WITH FORMAT PAINTER AND COPY THE 0-FORMATTING DOWN ACROSS THE NEW ICP ACTIONS TO ADJUST ROW HEIGHTS
- MINUMBER = N/A
- 4. ORDER TYPE, MAT, PG & MWC = ICP
- 5. ORIGINAL DUE, BASIC START, EAFD, USER STATUS & DEFERRAL COUNT = N/A
- 6. COPY THESE N/A AND ICP VALUES DOWN THE SHEET
- 7. CHANGE ICP LAFD FORMAT TO (FIND REPLACE 'SPACE' WITH (DASH))
- 8. COPY PASTE SPECIAL ENTIRE SHEET
- 9. DELETE ANY EXTRA SHEETS ADDED FOR VLOOKUP DATA
- 10. HIGHLIGHT ALL COLUMNS AND SORT BY ASSET/LOCATION
- 11. *SAVE*
- *MASTER DATA SET IS NOW COMPLETE FOR ALL ASSETS*

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TO FEED THE BARRIER MODELS FOLLOW THE STEPS BELOW

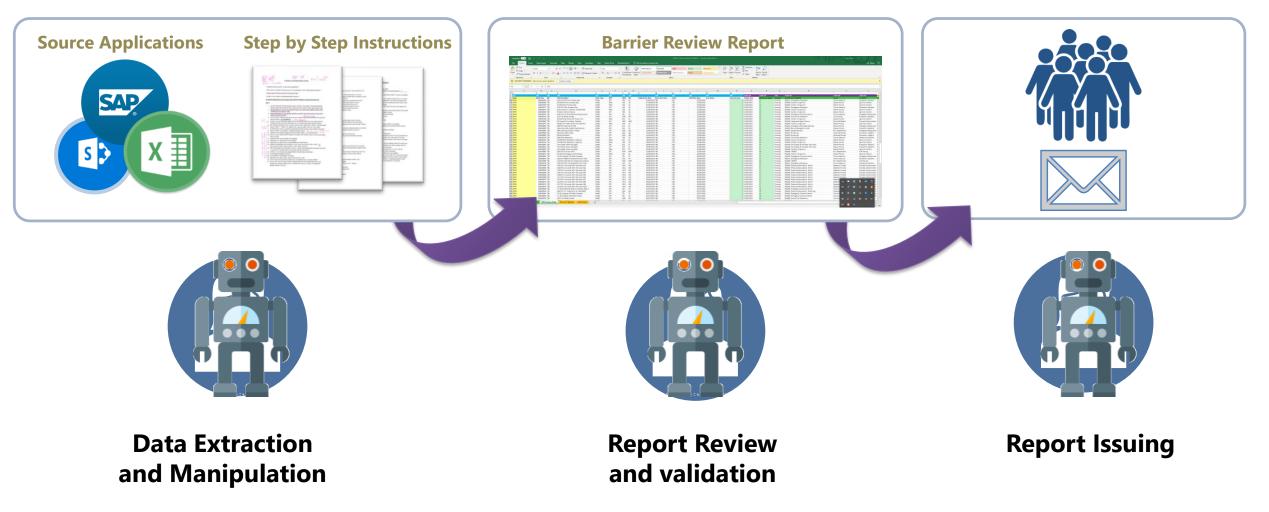
STEP 1

- 1. SELECT THE BARRIER FILE FOR YOUR PARTICULAR ASSET
- 2. START ON CR ASSESSMENT TAB, UNSHARE WORKBOOK (REVIEW/UNSHARE)
- HIGHLIGHT COLUMNS A, B & C UNMERGE ALL
- 4. HIGHLIGHT CELLS A3, A4 & A5, DRAG DOWN TO BOTTOM OF SHEET TO AUTO FILL BARRIER & PERFORMANCE STANDARD VALUES
- 5. ON WORK ORDER SOURCE TAB, HIGHLIGHT ALL TEXT UNDER SAP AND DELETE THE FIELDS
- 6. CLEAR DATA IN COLUMN R (PS) & COLUMN U (COMMENT) *FILE READY FOR NEW DATA*
- 7. FROM 'SAP EXPORT [DATE]' FILE WHICH SHOULD STILL BE OPEN (RE-OPEN IF NOT), FILTER COLUMN A TO SHOW THE ASSET YOU ARE UPDATING
- 8. HIGHLIGHT ENTIRE DATA SET FOR THAT ASSET, COPY AND PASTE INTO THE BARRIER FILE -SHOULD ALIGN PERFECTLY WITH COLUMNS
- 9. CHECK HOW FAR DOWN THE DATA REACHES AND DELETE ANY EXTRA ROWS. IF DATA GOES LOWER THAN PREVIOUS WEEK, DRAW DOWN LOOKUP VALUES
- 10. FILTER COLUMN B ON MI NUMBERS ONLY (REMOVE TBC OR N/A)
- 11. IN PS COLUMN VLOOKUP(B:B,SHEET ALL SC MI A:E,5,0)
- 12. DRAG DOWN ENTIRE SHEET TO AUTO POPULATE
- 13. CHECK ALL ENTRIES ARE FILLED THEN CLEAR FILTERS
- 14. HIGHLIGHT COLUMN R COPY PASTE VALUES
- 15. IN COLUMN R, FILTER ON N/A OR BLANK (ANYTHING WITHOUT PS NUMBER)
- 16. WHERE BLANKS APPEAR, OPEN THE PREVIOUS WEEKS ASSET BARRIER REPORT AND DO VLOOKUP(C:C.LAST WEEKS MODEL.16.0)
- (START ON COLUMN C, HOLD SHIFT AND MOVE ALONG 16 SPACES)
- (WILL POPULATE MOST AND LEAVE SOME N/A'S)
- 17. CLEAR FILTERS THEN COPY PASTE VALUES IN PS COLUMN (R)
- 18. WITHIN ICP SHEET, SEARCH FOR UNIQUE NUMBER AND SEE WHAT THE SCE DESCRIPTION IS
- 19. FINAL VLOOKUP(C:C, ICP SHEET B:D,3,0) THIS SHOULD FULLY POPULATE PS COLUMN
- 20. FIND THE PS TEXT IN PS vs SC BARRIER SHEET AND COPY CORRECT TEXT ONTO PS COLUMN WHICH WILL UPDATE THE OWNER AND BARRIER
- 21. CLEAR FILTERS, HIGHLIGHT FULL DATA SET, SORT BY 1)SC BARRIER 2)PERF STD 3)DIFF DAYS 22. UPDATE THE COMMENTS FIELD FROM LAST WEEKS ASSET FILE WITH VLOOKUP, OR JUST
- COPY PASTE ACROSS ONE BY ONE IF THERE'S ONLY A HANDFUL
- 23. DRAG DOWN ENTIRE DATA SET UNTIL THE VALUES TURN INTO '0' = FULL DATA SET
- 24. HIGHLIGHT COMMON BARRIERS AND MERGE EACH ONE PER BARRIER
- 25. HIGHLIGHT COMMON PS AND MERGE EACH ONE PER PS (OK ANY ERRORS)
- 26. COPY PS FORMATTING AND PASTE INTO COLUMN C THEN CLEAR THE VALUES OF COLUMN C
- 27. THE BARRIER MODEL FOR THAT ASSET IS NOW COMPLETE, REPEAT FOR ALL OTHER ASSETS
- 28. ONCE ALL ASSETS UPDATED, COPY ENTIRE FOLDER INTO S: COMMON/BARRIER FOLDER 29. SEND OUT EMAIL WITH LINK TO BARRIER MODEL & SCREENSHOT OF FOLDERS











Barrier Model Report Automation Demo



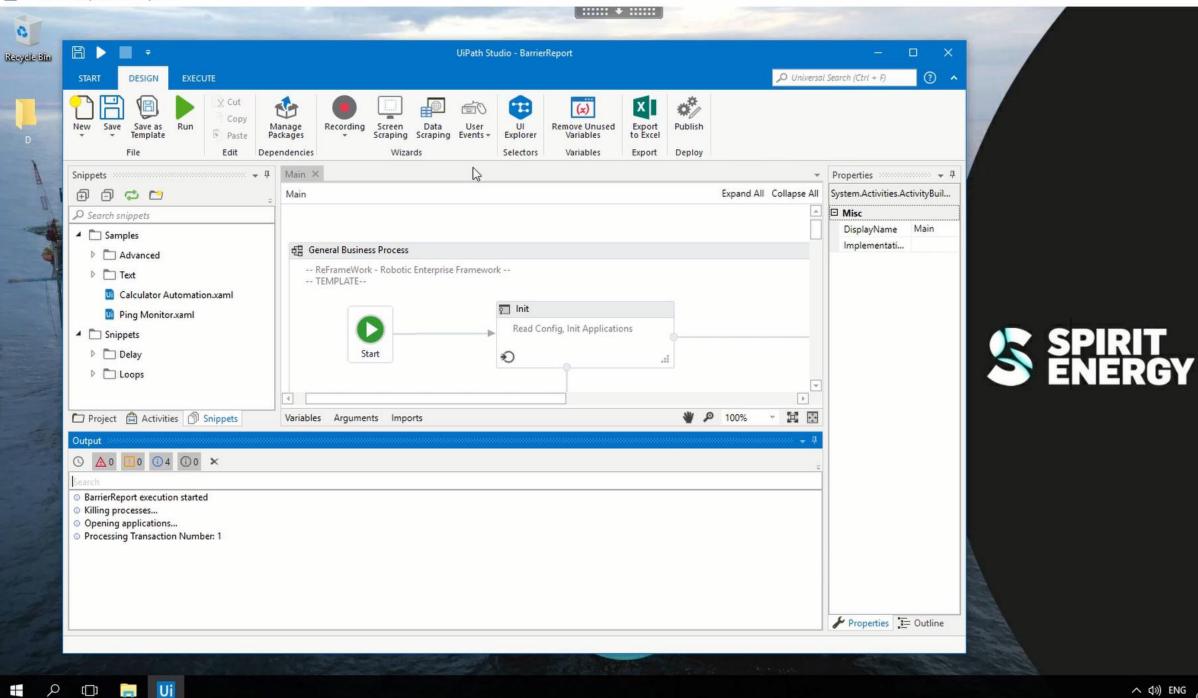


Gold Winner SAP Quality Awards

and Ireland

2019

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Aberdeen Desktop Test - Desktop Viewer
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BARRIER MODEL REPORT AUTOMATION

- ÷ FN 🕨 **UiPath Studio - BarrierReport** Ē D Universal Search (Ctrl + F) ? START EXECUTE Ð Main * Snippets Expand All Restore Main 🤉 Init Project C Read Config, Init Applications īπ System Error 0 Start Ð Acti Success 5 End Process Init database Process stops here create system tables in database Rule Exception Error Error Ð Success 🔄 Get ZW38 data Run ZW38 TCode in SAP and save the result as Excel file in input path as per robot configuration Then import the data into the database Ð 🐖 Get Transaction Data Get next asset to process Process Transaction TRUE Process the asset in TransactionData No Data 🐑 Send email A transaction either succeeds Now Transact... or fails with a Business Rule Exception or a System Error. For System Error, it can be retried. Ð Ð Rule Error tion A 75% - 滇 🗟 Variables Arguments Imports Output 12:37 []] Ui へ \$) 📰 ITA 25/11/2019

High-Level developer view of Barrier Model

Report process in

UiPath



BARRIER MODEL REPORT BENEFITS

- **EXECUTION**: run time from 4+ hrs (manual) to 15 mins (automated)
 - 95% reduction in effort with ROI within 3 months
 - Manually triggered (but could be scheduled with On-Demand option)
- FREQUENCY: Viable to be run daily instead of weekly (a business objective)
- **QUALITY**: Consistent execution with ZERO user errors
- **RISKS**: Less reliance upon individual team members/specialists
- **DEVELOPMENT**: <2 days input to develop with 4 weeks development cycle

SPIRIT ENERGY RPA NEXT STEPS



- 1. Successful PoC leading to follow-on SAP Finance Use Case Pilot
- 2. Finance Team identified potential use cases
- 3. Pilot to determine feasibility for Automation
- 4. Broader SAP 'Use Case' review underway
- 5. Expected to extend to automate viable cases
- Spirit Energy to seize opportunities to improve efficiencies and gain competitive advantages

Process	Automation Tasks		
Budget holder reports	 Download SAP Reports and pull into excel. Pull additional information into excel (e.g. plans) Cut into cost centre groups (MH Specific) 		
Workday 6 Cost Centre Reporting	 Download data from SAP, run look ups to summarise Run Pivot Generate standard report and consolidated Create QBR report 		
In Month clearing of intercompany balances	 Clear all open intercompany items in SAP Need to go through each SE company with per vendor Move balance to manual TLA account Trading partner info lost Download clearing entry > repost (with trading partner) Reverse RXD and repost to manual account 		
Hedging Report	 Retrieve Endure file in csv format Copy inside the Hedging report Run pivot table Format tables according to the period Check the line items totals equals expected trade totals Save the file on shared folder. 		





OPPORTUNITY FOR RPA IN SAP?

What do the Experts say?



£ Savings



Scalability



Reduce Risk

ility



Governance



Quality Outcomes



Integration



Performance



By 2020, automation and artificial intelligence will reduce employee requirements in **business shared-service centers by 65%.** (Gartner)

By 2021, there will be over **4 million robots** doing office and administrative tasks and sales and related tasks (*Forrester*).

RPA market will reach **\$2.9 billion** by 2021 (*Forrester*)

Process automation will have limited impact on top-line growth for 50% of organizations that will **erroneously focus on labour reduction**, not on **improving business outcomes**. (*Gartner*)

ROI





POTENTIAL SAP RPA USE CASES

Finance

- Invoice Processing
- Auto FX Updates

Supply Chain

- Auto PO Create
- Delivery Tracking

Master Data

- Embed Business Rules
- Sync Multiple Systems

	True Enterprise RPA ENTERPRISE RPA STORES-BACK OFFICE GLOBAL TECHNOLOGY COMPANY SIMPLIFIES HR ON-BOARDING		
UiPath.	CUSTOMER: Global Technology Company - USA, India & China	100% of effort automated	100% Manual effort reduction
	IMPLEMENTATION TIME: Within 2 months	6 Months to ROI	1% Errors reduced from 30% to 1%
	PROCESSES AUTOMATED: HR Onboarding of new hires.	7X Faster processing time	More detailed compliance and non- repudiation audit logs.
			и.

HR

- New Starter Process
- On-Boarding Process

Sales

- Self-Serve Quotations
- Delivery Tracking

Plant Maintenance

- Sync to specialist DBs
- Auto Recordings > SAP

Other

- Virtual Support Centre
- Complex Reports





AG - DELIVERING RPA FOR SAP

1. AG SAP Gold Partners

- AG has a strong reputation & recognised as innovators within SAP ecosystem
- 2. AG SAP Quality Awards Winner 2019 GOLD Award INNOVATION category

3. RPA & Automation Focussed

- SAP Specialist UiPath Gold Partners VAR (incl. BPO)
- AG are the natural leaders in the Intersection Where UiPath Meets SAP

4. See <u>AG SOAPBOX session</u> or <u>Stand B2</u> for SAP Virtual Support Centre Demo

- Automate High Frequency manual tasks for improved efficiency & reduced costs
- Take the AG express SAP Automation Use Case assessor (+ Free Gift, etc)







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