



SAP iRPA Launch

HCL invited to participate in the launch of SAP's new product **SAP intelligent Robotic Process Automation (iRPA)**



Business Challenges

Central banks and Chief Economists have been pointing out poor productivity gains in major economies holding back wealth creation. 10 years after the financial crisis, flat economies, austerity & process outsourcing and populations are getting restless. People want to feel like progress is being made and that our children will be wealthier than us.

But how to achieve new growth, provide less repetitive more engaging work opportunities and get more done in less time? The answer is **to automate away repetitive tasks** freeing up people to spend more time on valuable activities and bring burgeoning **artificial intelligence** capabilities to bear to take over some current human based tasks. As with previous revolutions, we believe that this this will free up people to do more interesting, engaging and rewarding work...

Forrester analysts estimate that the market growth for RPA is exponential - **\$1Bn in 2017, \$13Bn this year** moving to **\$50Bn by 2021**. SAP the world's largest business software vendor recognises this and has created a new dedicated intelligent Robotic Process Automation solution and capability to servicing this market.



Solution Description

SAP's new iRPA solution is "a complete automation suite where software robots mimic humans by replacing manual clicks, interpret text-heavy communications, or make process suggestions to end-users for definable and repeatable business processes."

The SAP iRPA road map will see RPA combining the strength of SAP Machine Learning (ML), Artificial intelligence (AI), Conversational AI (CAI) and Robotic Process Automation (RPA) to deliver rapidly advancing out of the box intelligent process automation for business, tightly integrated into the SAP digital core.

HCL were invited to the technical launch in Paris and in five days were producing deployable bots that target the following scenarios:

- Extract Data through various connectors e.g. excel, pdf, external apps, websites, 3rd party apps and enter in a finance system
- Download various reports, collate and save in shared drive
- Log in to 15 SAP instances, collect Purchase Requisitions and distribute to SSC teams
- Check ticket inbox in a Shared Service Center and route to bots
- Search invoices by reference number in various ERP instances



Potential Use Case Overview 1

Sub Process 1: Invoice Extraction from mails

- Read Mails from Payment Mail box, Classify the unread Email with Invoices.
- Move the Email with Invoices to configured sub folder
- Save the PDF to Shared Drive. (If the attachment is DOC or Excel or Mail Body, Convert the content into PDF and Save it in Shared Folder.)

Sub Process 2: Invoice recording and indexing

- Login to SAP Ariba/Invoicing module, Access PDFs from Shared Folder
- If the PDF has PO Number, validate PO Details else create a draft Invoice
- Invoice entry & Save for successful cases
- Push Invoice PDF to processed folder in Shared Folder

Extensions:



Accounts Payable

- SAP FI Reconcile invoice aging and Payment schedule reports. Perform match between Pay cycle report, Vendor Ageing Report, Payment Schedule Report
- Send email to Audit with matching records



Accounts Receivables (Billing)

- Login to ERP (SAP FI), navigate to Billing page in Billing Module and Select "New Bill"/Ready to Bill"
- Copy line items and store in Excel for formatting
- Perform check and create invoice
- Create Email batch (Create separate batch in case of discontinuity in invoice nos.)
- Confirm Batch process status and conduct Invoice Check for successful email Sending (Excel)



Industry: Companies in Supply chain





Potential Use Case Overview 2

HCM - New Joiner Employee Validation

- Photo of driving license and passport (User self serve on mb or Admin from screen & email...)
- **SAP IRPA scrapes:**
 - From passport: name, citizenship, DoB passport number, validity dates - photo ID
 - From Drivers license: address, signature, photo ID Uploads into SF or S/4 HCM Infotypes
 - RPA submits data for Visa application (if required ie detects if Job is in country or not..)

Opportunities

- ML - compares the photos with user (Face recognition for security)
- Chatbot to review and confirm or change details
- Automated reminders for passport dates
- Automated messages to user about visa status / request for visa etc
- Versions for countries with ID cards, extend to other docs e.g.



Industry: All, but particularly companies with high turnover of employees & Companies/geographies where documentation is important e.g. UK.

Benefits of RPA

Primary



Productivity –

Speeds up processes through put compared to manual



Reliability –

Robots make tireless workers



Accuracy –

AI now matching or surpassing human accuracy in many repetitive tasks e.g. image recognition



Consistency –

Routine tasks produce a high percentage of correct outcomes



Lower Ops Skill –

Human role changes to supervise processes run by robots

Secondary



Data Driven –

Deeper audit trail that is reportable for compliance



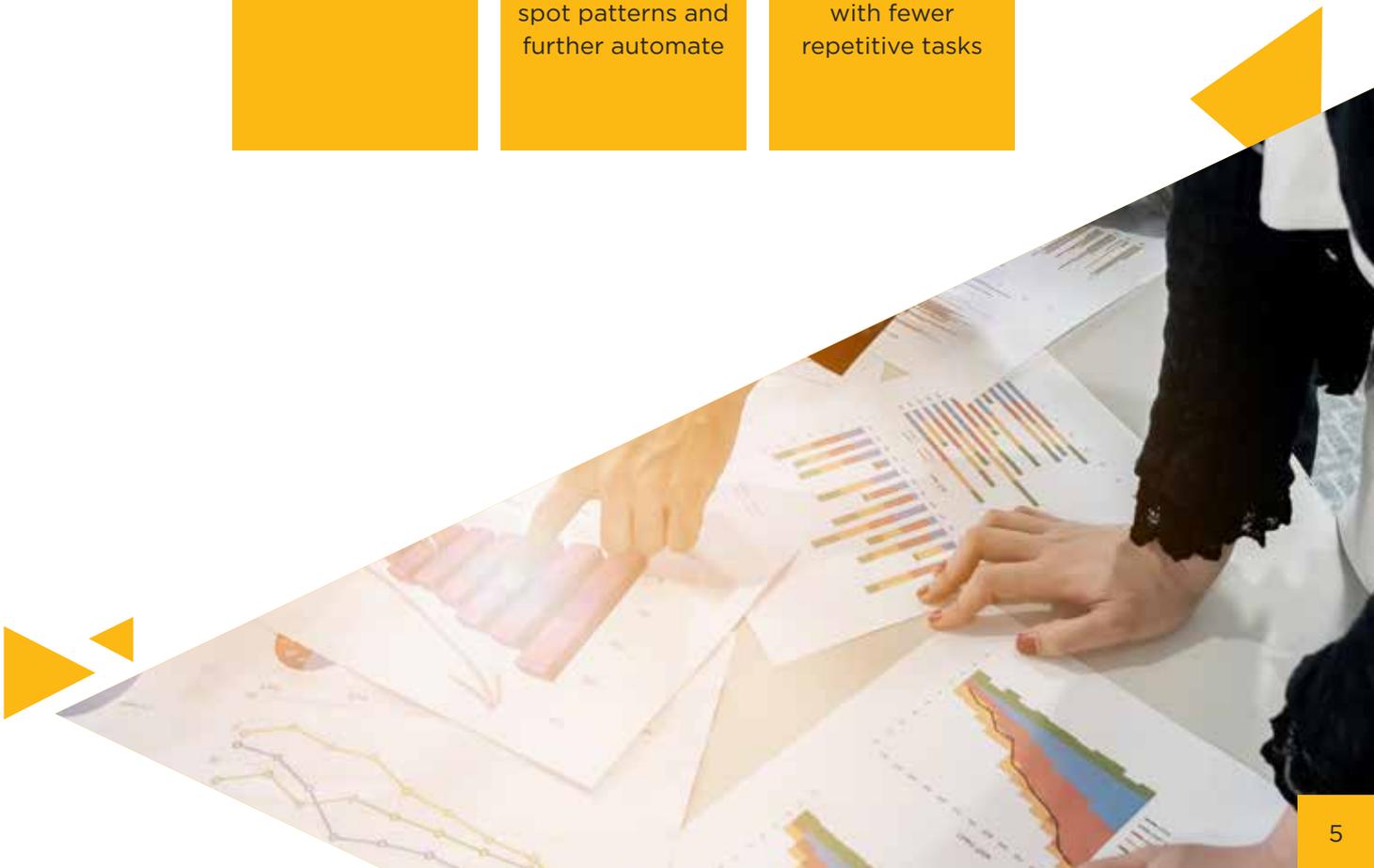
Continuous Improvement –

Data on processes can be used by emerging AI to spot patterns and further automate



Improved Employee Engagement –

More interesting roles for staff with fewer repetitive tasks



How HCL makes it possible

HCL recognizes the value of the RPA market and is excited to be taking the next step into the intelligent RPA market with SAP. Many of our classic RPA projects have been automating SAP desktop application processes in R/3, ECC 5/6, SAP CRM etc. With SAP iRPA customers now have a compelling intelligent automation solution from a single supplier combined with the ever-advancing SAP core modules.

HCL is also proud to promote its DryICE automonics capability which is deeply engaged in Artificial Intelligence, Analytics and Machine Learning to solve business problems.

HCL intend to bring both aspects robotics and AI experience together in order to build a new SAP intelligent RPA practice with the aim of becoming the partner of choice and analyst leaders / visionaries in delivering SAP iRPA centric solutions to enable our customer's business opportunities.



SAP Technology Required



New SAP
iRPA



New SAP
Conversation
AI - Chatbot



Node.js -
integration
layer



SAP Cloud Platform
- Machine Learning,
OCR, Text Analysis

System Process Improvement Side

- Email system - reading information from
- Excel spreadsheet data
- SAP S/4 Hana - Finance, Supply Chain, Billing
 - Fiori and Business Client UIs
- SAP Procurement - Ariba Invoicing & PO Creation
- SAP SuccessFactors - Human Capital Management





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