



Robotic Process Automation: a hype or a proven technology?

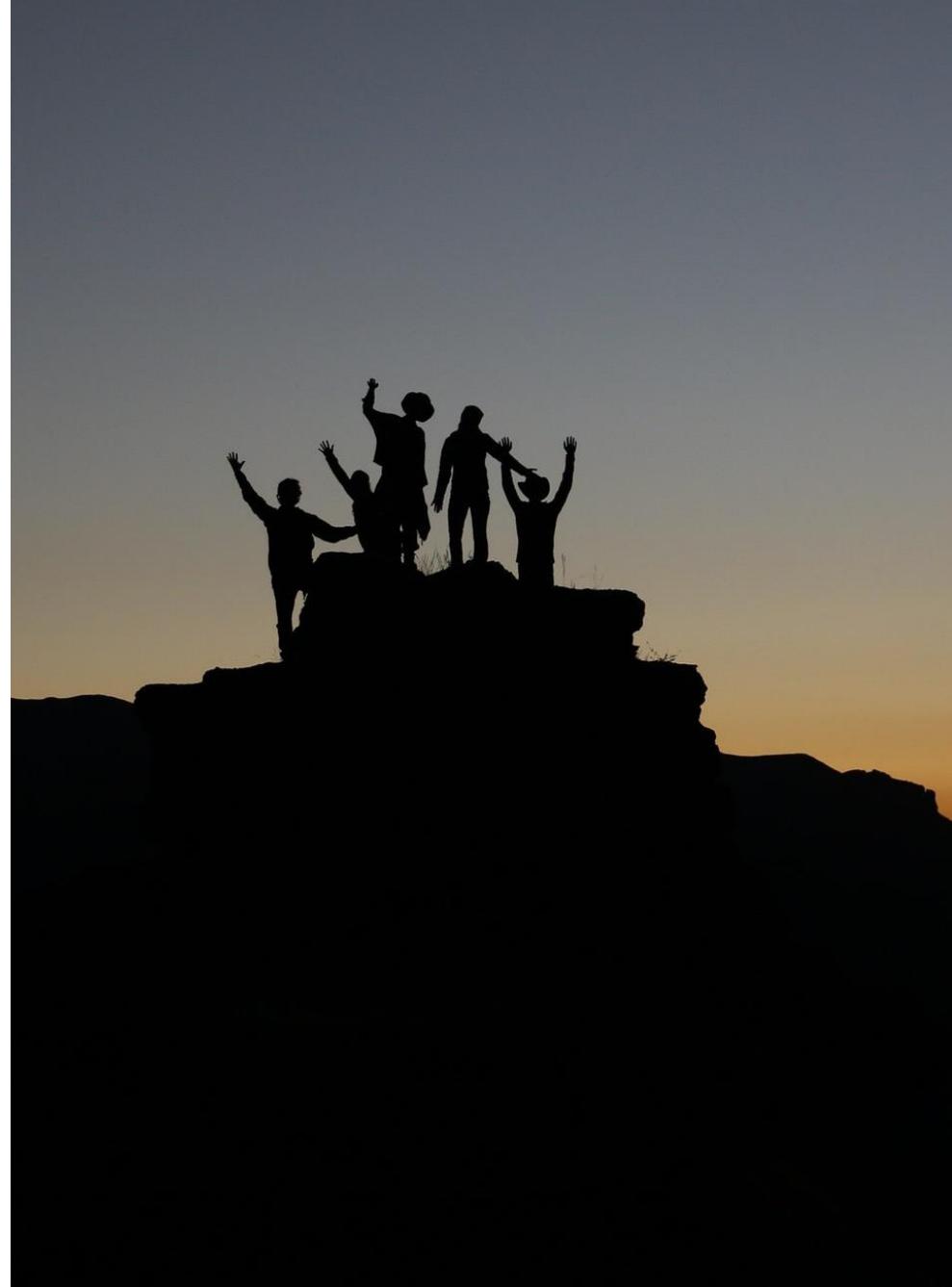
Onur Pamuk | 8th of May 2019

ONUR PAMUK

Digital Transformation Consultant



- More than 3 years of experience in RPA
- Blue Prism expert
- Driven and passionate by digital technologies
- Dealt with more than 70 RPA processes across major companies



CRONOS GROUP

#PROUDTOBEPARTOFG

Cronos Group

+5000



+370



Hestia
Arxus

Uptime Group

Infrastructure

Cronos Public Sector

Public & Government

Invisible Puppy

Needle

SUPERMACHINE

Think With People

The CoFoundry

Venture Studios

Startups & Scale-ups

Narato

Yellow Jersey

Crosspoint Solutions

Hybrid Intelligence

Leap Forward

Knight Moves

MonkeyShot

Calibrate

District 01

Service Design

Comma Group

Content Management

Flexso

SAP

Divirsiti

Security & Integration Architecture

&KOO

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Xplore Group

E-Commerce

Fenego

Elision

Faros

Infofarm

Qframe

ChangeLab

Arinti

FlowFactor

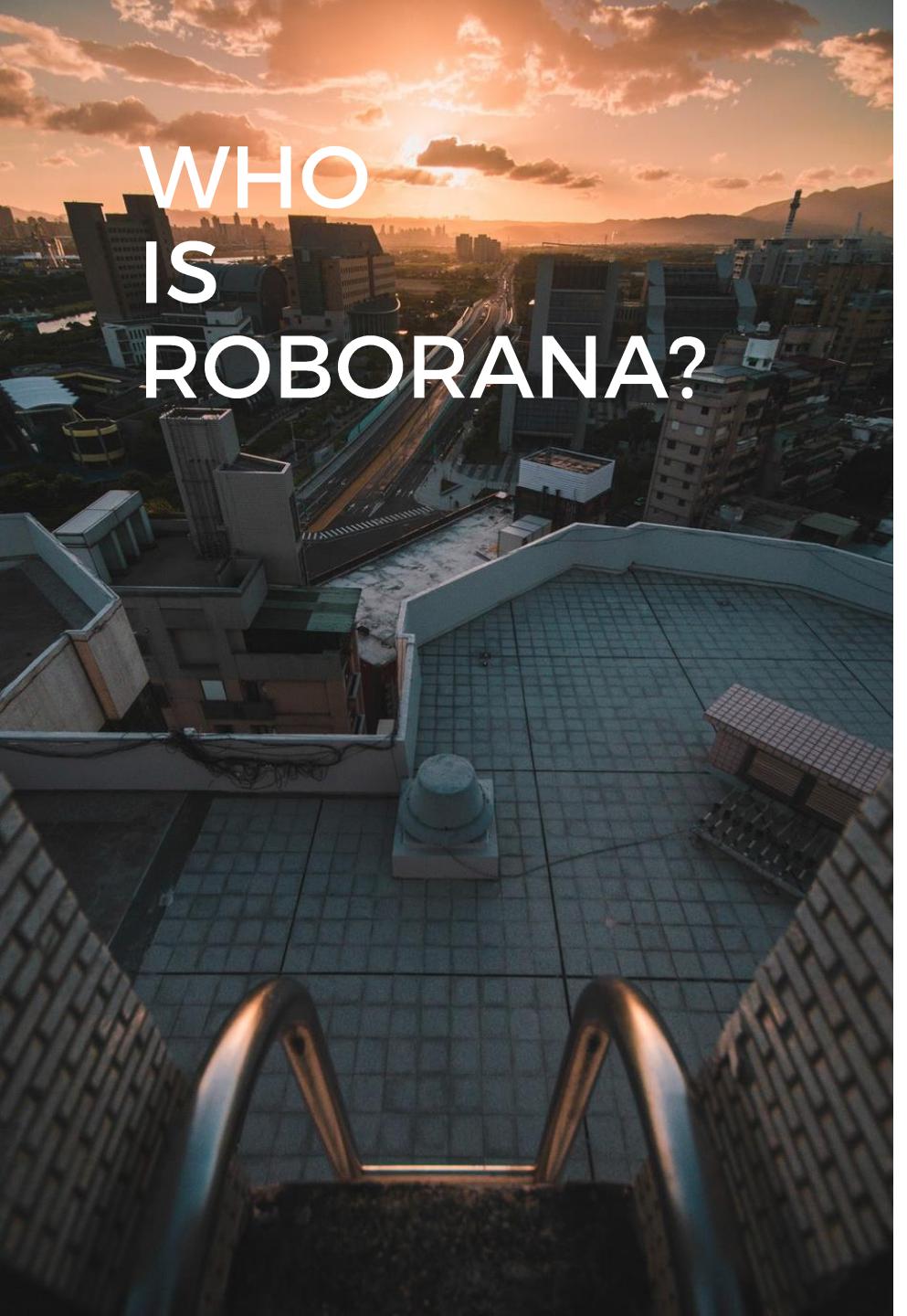
RoboRana

Craftworkz/Brainjar

TheLedger

Optis

I8c



WHO IS ROBORANA?



RoboRana is a fully fletched **Robotics Competence Centre**, within the Cronos Group, focusing on Robotic solutions such as Robotics Process Automation and Intelligent Automation.

Our core competences:

- Robotics Process Automation (RPA)
- Intelligent Automation (IA) – OCR/NLP/PROCESS MINING
- Partner of RPA market leaders
 -   
 - We help organizations to innovate, to digitally transform and make repetitive processes more efficient

TRUSTED BY GREAT COMPANIES CROSS- INDUSTRY

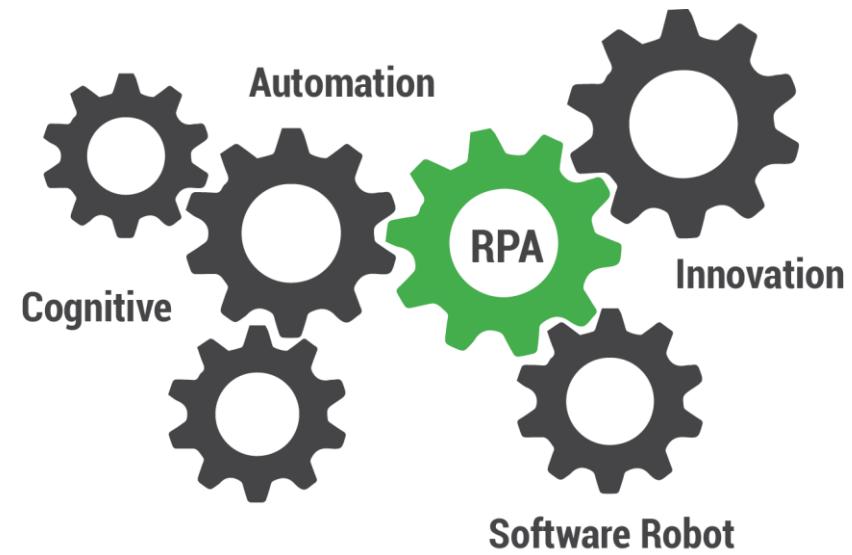


RPA AND INTELLIGENT AUTOMATION



ROBOTICS PROCESS AUTOMATION (RPA) is the automation of repetitive, high volume and manual processes with software robots that mimic human actions and connect multiple systems without changing the existing IT landscape.

INTELLIGENT AUTOMATION (IA) stands for the integration of Robotics Process Automation with cognitive solutions such as Natural Language Programming, Optical Character Recognition, Chatbots or machine learning.



ROBOTICS PROCESS AUTOMATION

RPA BY THE NUMBERS

85%

POTENTIAL RPA ROI
IN THE FIRST YEAR

30%-200%

\$4.6BIO

ESTIMATED
RPA MARKET
IN 2021

**NUMBER OF A
TYPICAL FIRM'S
900+ PROCESSES
THAT CAN BE
AUTOMATED
WITH RPA**



Cost reductions with RPA
for onshore operations



Cost reductions with RPA
for offshore operations



Estimated reduction with
RPA in entry-level roles

140MIO

Number of FTE capacity that
could be released by 2025

20.000

Number of people with RPA
Developer Certification

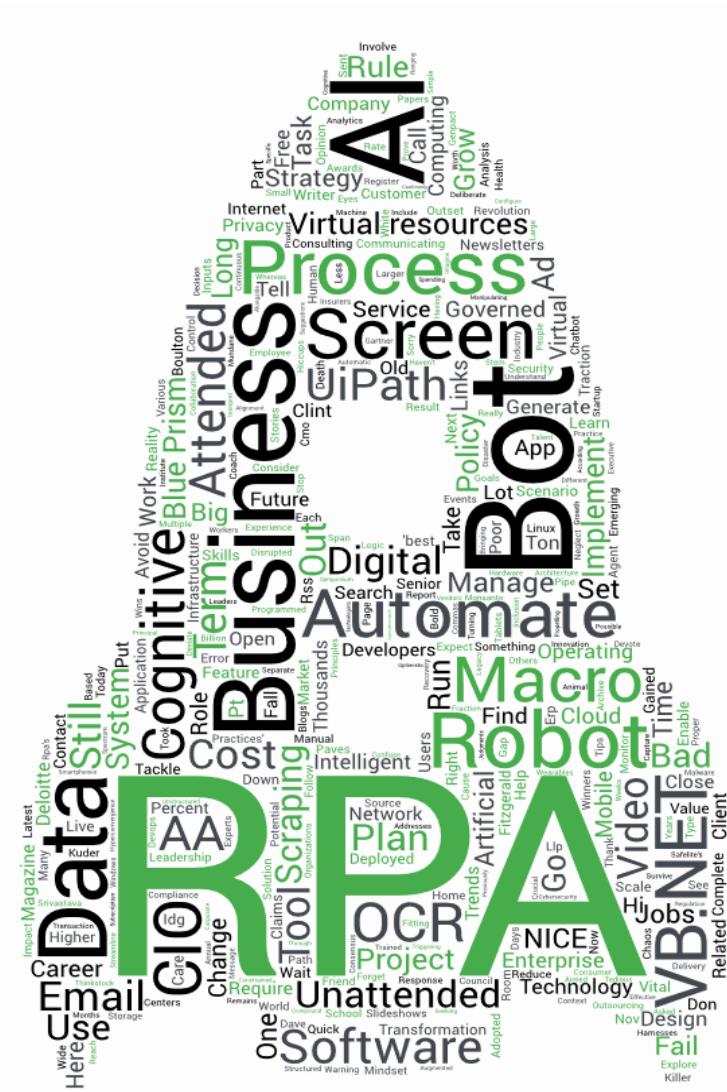


Of BI Platforms will include
Natural Language Generation
and AI as standard features

ROBOTICS WHAT?

RPA IS MORE THAN ONE TECHNOLOGY

30+ years of technology combined in one platform



BENEFITS OF RPA AND IA

Organizations do not only save on costs, time and effort. RPA and AI also offer **a wide range of opportunities** to make data more consistent and processes more efficient:



UNATTENDED ATTENDED AUTOMATION



UNATTENDED

Automates **100%** work
Few user interaction
Self-triggering robots
Server
Back-office
Fully-documented processes



ATTENDED

Automates **20% - 90%** work
User interaction
Trigger by events
User's desktop
Front-office
Partially-documented processes

USE CASES

RPA AND IA CAN BE APPLIED IN EVERY DOMAIN WITHIN ORGANIZATIONS



FINANCE & ACCOUNTING

AP – AR – CONTROLLING – TREASURY

Sales order,

Order to cash

Collection

Procure to pay

Incentive claim

Record to report

Vendor setup

Trend tracking



HUMAN RESOURCES

R&S – ONBOARDING – HR SERVICES

Payroll

Benefits administration

Pay slip management

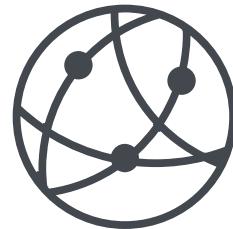
Time and attendance management

Recruiting process

Education and training

Compliance reporting

Expense management



SUPPLY CHAIN

LOGISTICS – OPERATIONS - PRODUCTION

Master data management

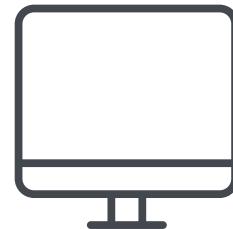
Work order management.

Demand and supply planning

Quote, invoice and contract management

Returns processing

Freight management



INFORMATION TECHNOLOGY

SERVICE DESK – HOSTING – SECURITY

Installations

File transfer protocol download, upload and backup

Server application and monitoring

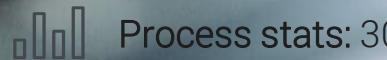
Synchronizing, deleting and emptying folders

File and email management.

ROBOTS
at work...



USE CASE ISABEL AUTOMATION



Process stats: 3000 payments a month



Manual process: average time per payment 30 seconds, 25 hours a month



Automated process: average time per payment 20 seconds.



Filtering payments

ISABEL

Payments in ISABEL are filtered to be processed by the robot.



Extract data

ISABEL

Specific data from the payments are extracted



Registration in Excel

Excel

The total of the payments are written in corresponding cell.



Assign payment to folder

ISABEL

Processed payment is placed in folder



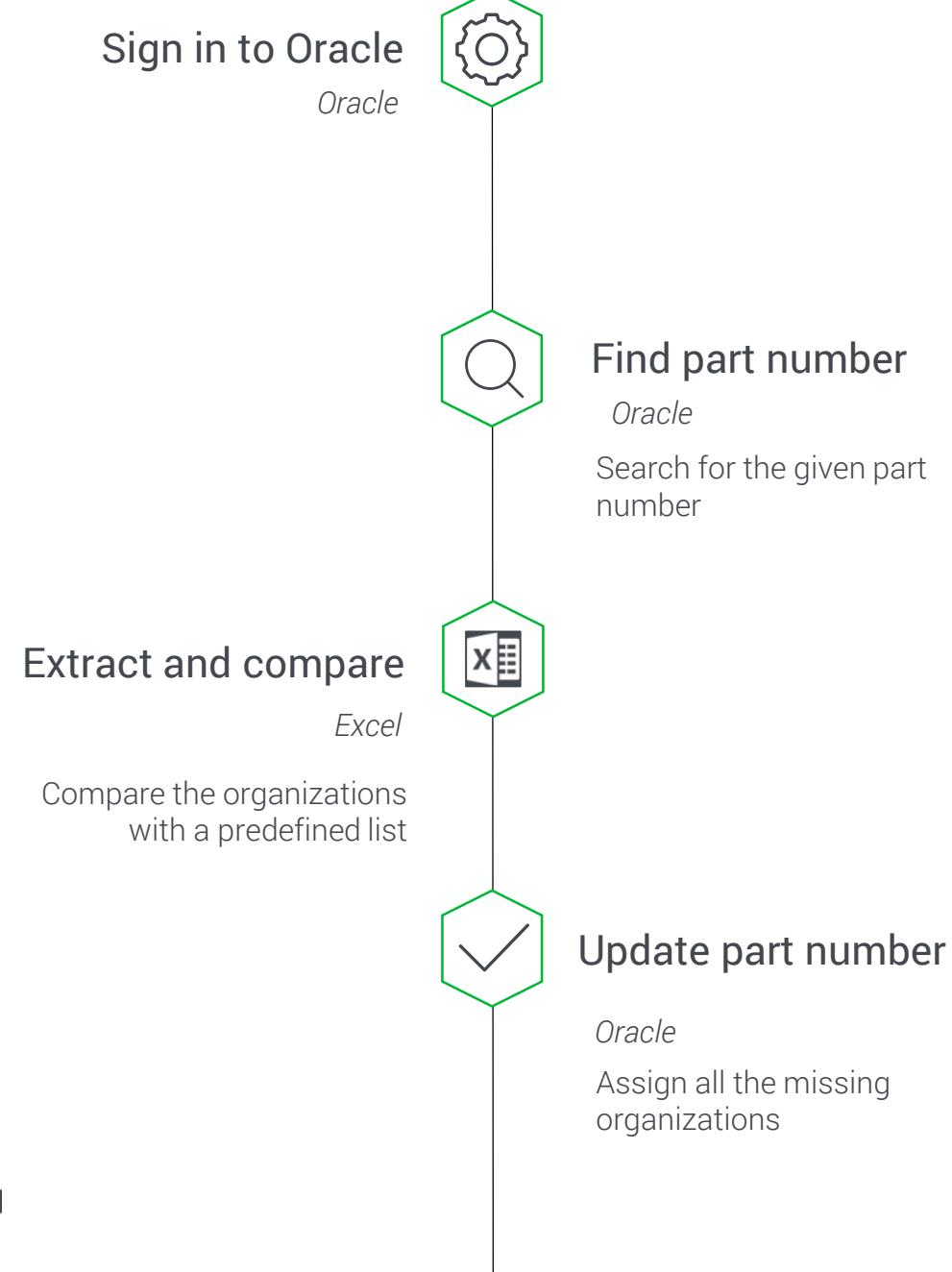
USE CASE DATA CLEANING ORACLE



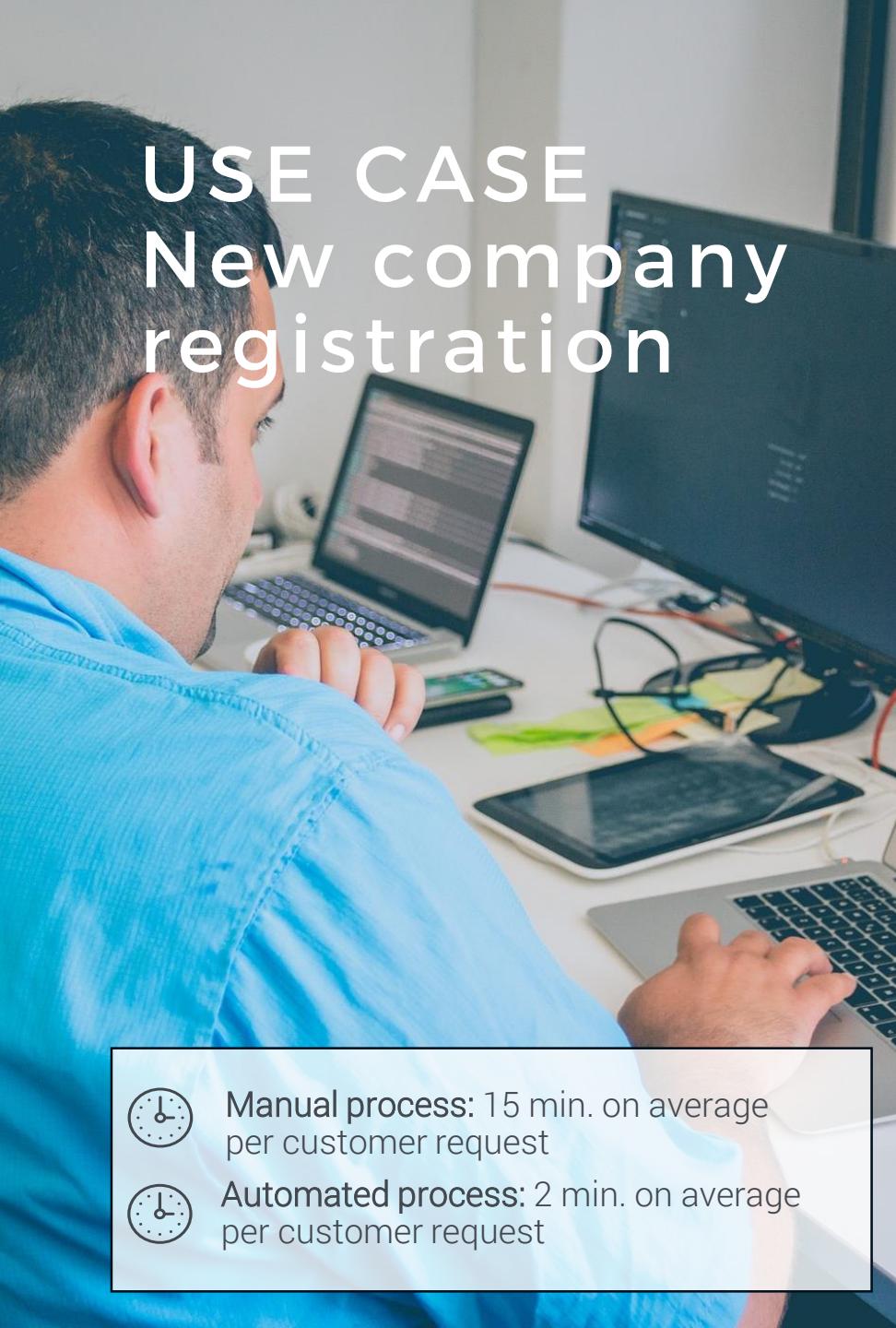
Manual process: 5 min. on average per part number to assign all missing organizations



Automated process: 30 s. on average per part number to assign all missing organizations



USE CASE New company registration



Manual process: 15 min. on average per customer request



Automated process: 2 min. on average per customer request

Online customer requests

Customer portal and E-mail with pdf attachments

New request are collected via an online portal. Information is consolidated and sent by e-mail. Robot scans inbox for new e-mails.



Extract customer data

Excel

Robot opens each pdf attachment, extracts customer data and logs the info in Excel



Launch application and log in

Web application

Robot launches a web application and logs in with username and password



Process customer data

Web application

The robot registers new companies based on the customer data in different fields and screens and finishes the registration.



Send info to security officer

E-mail

The robot gives feedback to the administrator on exceptions. The robot also logs exceptions.



Registration of work accidents



Manual entry time: 30-45 min. per report



Automated: 3 min. per report



File work accident report

Insurer website

The robot enters fields in insurer web form.



Extract information

Excel

Work accident information is extracted from Excel sheets and entered in the corresponding fields.



Extract information from SAP

SAP

Specific information about the victim is required and is retrieved in the SAP system.



Save report

Insurer website Ethias



The report is ready for manual review and completion, before sending it to the insurer.

USE CASE GDPR - Right for information



Manual process: 2 days on average per customer request



Automated process: 10 min. on average per customer request

Online customer requests

Customer portal and E-mail

Information is collected via an online portal.
Information is consolidated and sent by e-mail.
Robot scans inbox for new e-mails.



Launch CRM and log in

CRM

Robot launches CRM application and logs in with username and password



Extract customer data

Excel

Robot extracts customer data and logs the info in Excel



Send info to security officer

E-mail

The robot consolidates screenshots in 1 document and sends it to the security officer



Process customer data

CRM and web applications

The robot finds customers based on INSZ, opens 28 web applications and takes screenshots of each application with customer data.



Send info to customer

E-mail and SMS

After validation, the robot sends an encrypted file to the customer. Access is granted by SMS verification code.

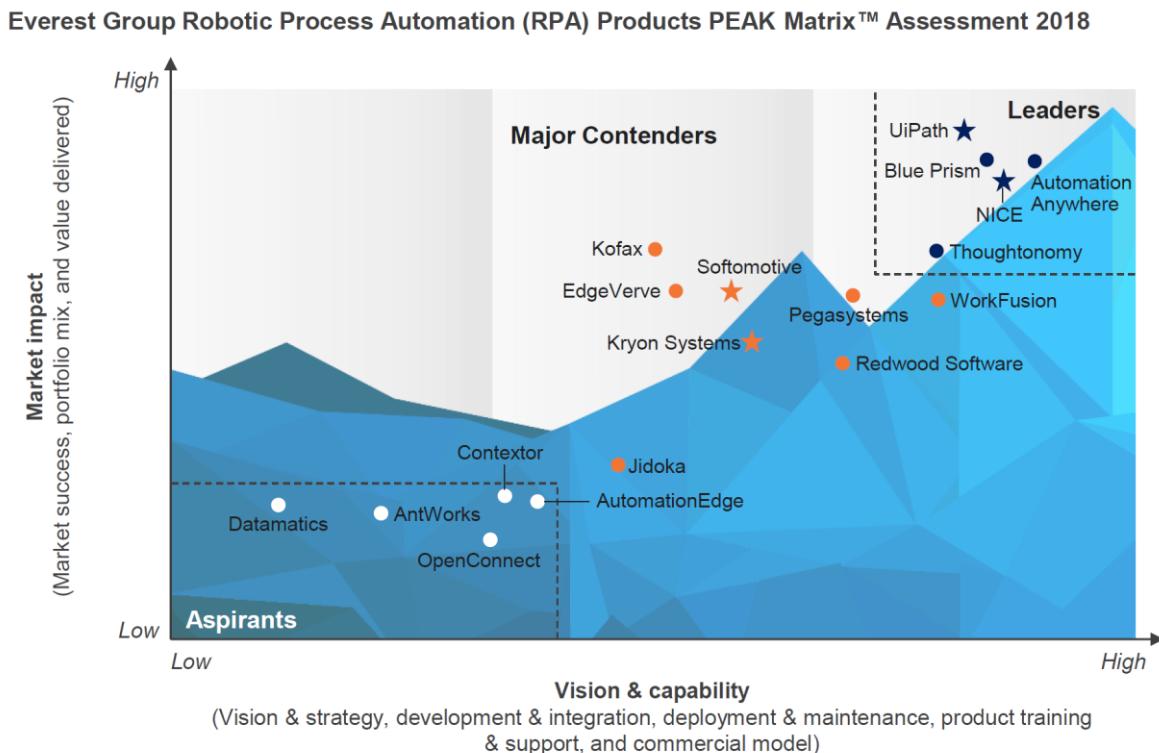




What about
RPA **TOOLS**?

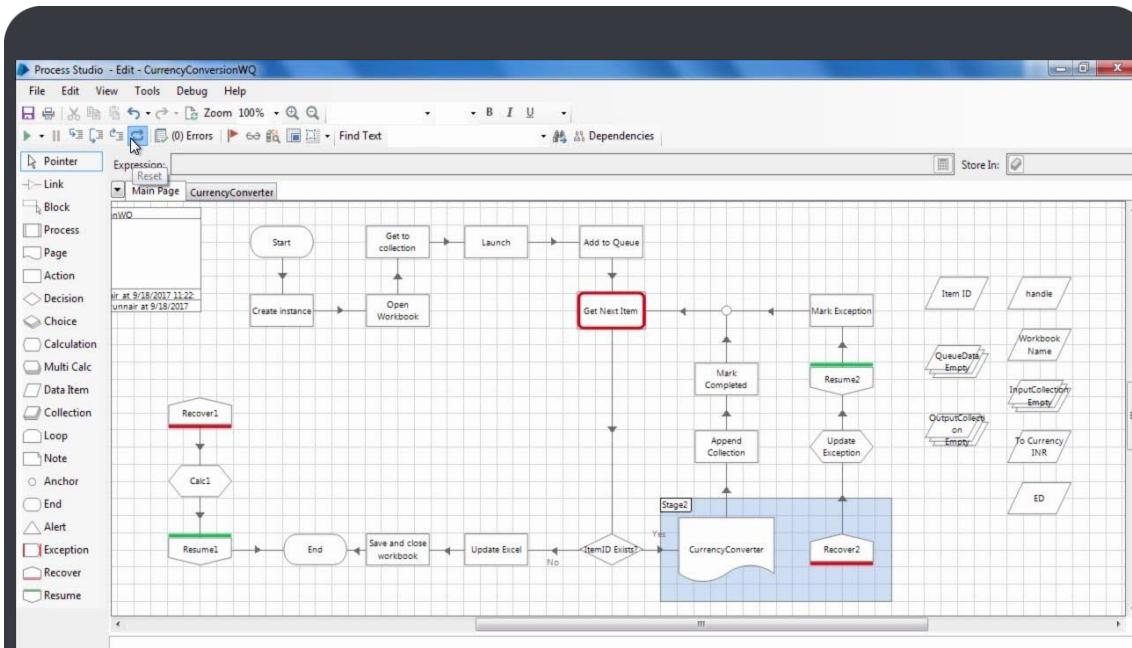
RPA TOOLING

EVERST GROUP Q2 2018 - FORRESTER WAVE Q2 2018



RPA TOOLING

BLUEPRISM



Process Design

Processes are defined using “drag-and-drop”, much like “Visio”.

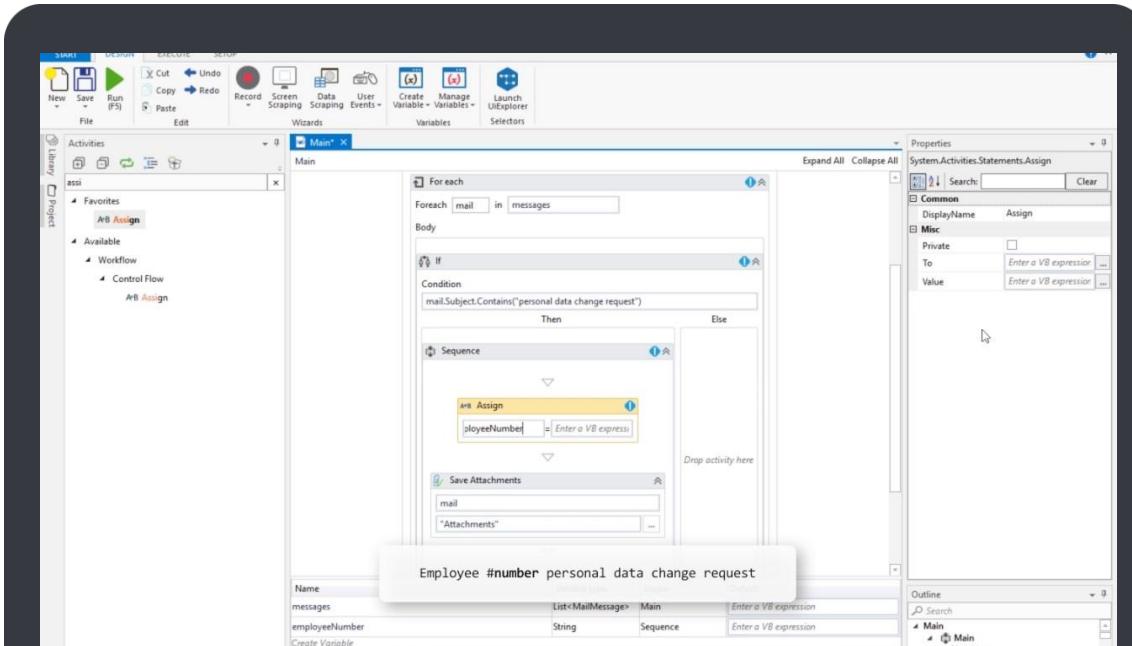
Implementing Actions and Logic

“click into” each object to define logic (e.g. formulas) or capture events.

Screen interactions captured using a set of ‘spy’ tools, for reading screens, entering data, selecting options and pushing buttons. Objects can be re-used for efficiency.

RPA TOOLING

UIPATH



Process Design

Container based “drag-and-drop” components and user friendly recording capability.

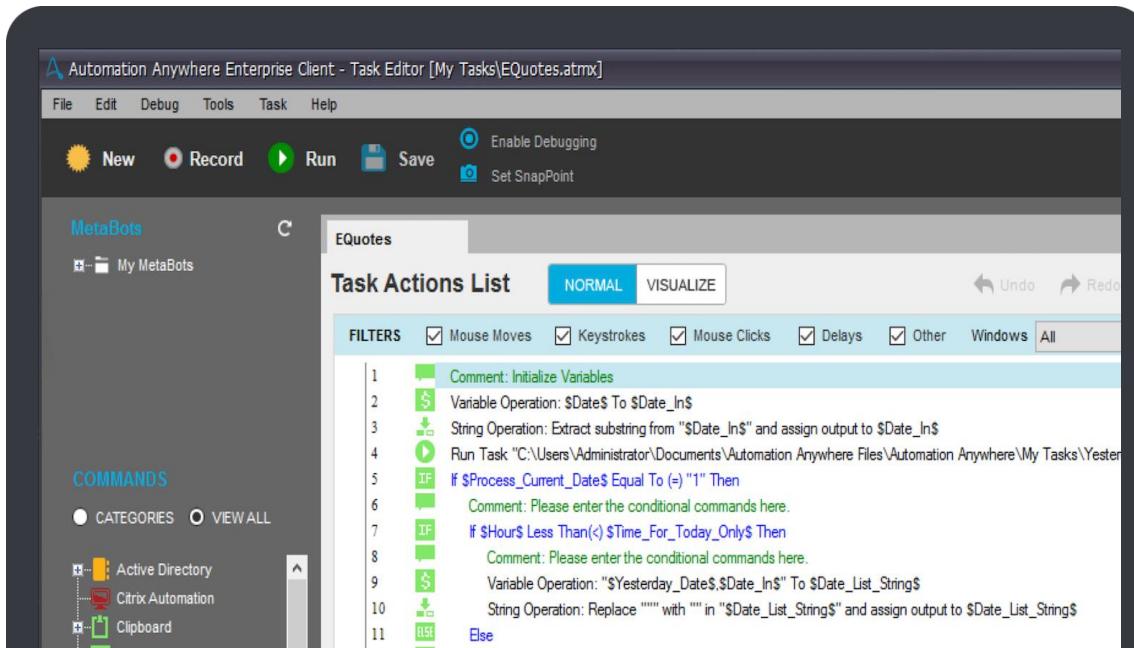
Implementing Actions and Logic

“click into” each object to define logic (e.g. formulas) or capture events in containers.

Screen interactions captured using a set of ‘spy’ tools, for reading screens, entering data, selecting options and pushing buttons. Objects can be re-used for efficiency.

RPA TOOLINGS

AUTOMATION ANYWHERE



Process Design

Object oriented “drag-and-drop” and user friendly recording capability. More a line oriented approach.

Implementing Actions and Logic

“click into” each object to define logic (e.g. formulas) or capture events.

Screen interactions captured using a set of ‘spy’ tools, for reading screens, entering data, selecting options and pushing buttons. Objects can be stored in library and re-used for efficiency.



How to build a **VIRTUAL WORKFORCE?**

BUILDING A VIRTUAL WORKFORCE

CHALLENGES

RPA should always sit within the Business

- RPA should be considered an operational asset – always run by business stakeholders with support from IT, subject matter experts, and process efficiency experts.
- Grow in-house RPA capability by building a Centre of Excellence made up of a mixture of Operations and IT staff.

RPA is not a project. RPA is a journey

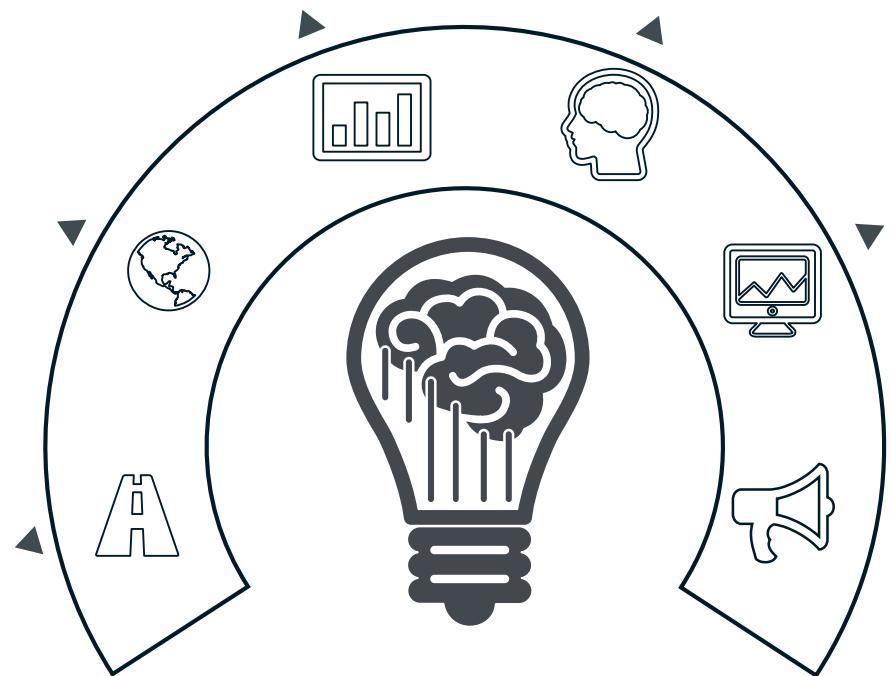
- Plan to build a sky-scraper not a bungalow.
- Build internal RPA capability to evolve, leverage scale, and increase business value.
- Multi-skill the robots.
- Do not be tempted by quick wins and deploy RPA in silos – fragmented and difficult to scale – always begin with an enterprise-level roll-out.

Never automate a broken process

- Ensure the process is stable and mature before applying automation.

The success of RPA depends on an dedicated sponsor

- RPA needs an institutionalized Robotics Team led by a **Sponsor** - who initiates the idea of automation, underwrites resources and ensures progress towards business adoption, and by a RPA **Champion** - the RPA evangelist in charge of the successful deployment of RPA within the organization.



Bring IT on-board early

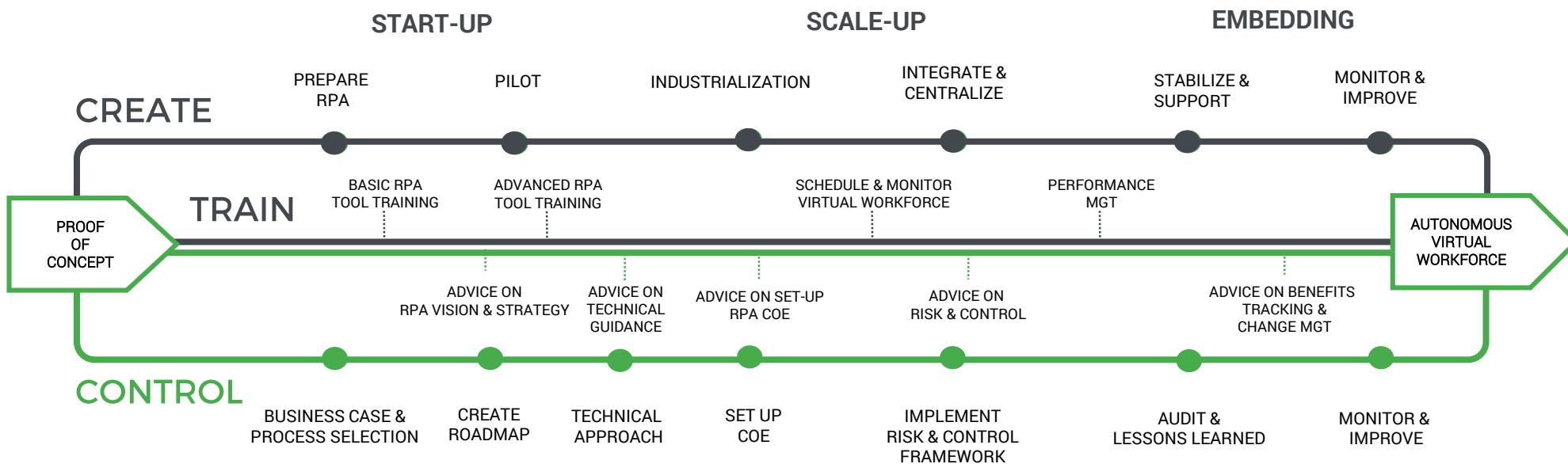
- Bring on IT on-board early. RPA deployment has an impact on Infrastructure, Security, Business Continuity and Disaster Recovery.
- Make sure the infrastructure grows together at same pace as automation.
- RPA must comply with the technology function's governance and architecture policies.

Communicate, Communicate, Communicate!

- Pay careful attention to internal communication.
- Engage a dedicated team of Change and Communication, in charge of raising awareness within the organization about the benefits of automation.
- Always keep relevant stakeholders up to speed with the progress of the automation journey.

ROBORANA FRAMEWORK

CREATE – CONTROL – TRAIN



Our proven framework consists of 3 complementary tracks (CREATE, CONTROL and TRAIN) to successfully experience the RPA journey. Key is to create a robust RPA solution, built to scale and industrialize across the entire organization. Controlling, monitoring and continuous improving of the RPA initiatives play a fundamental role while building the solution. In addition, each step in the RPA journey is supported with training and expertise in various RPA subjects to ensure continuous improvements.

A photograph of a person wearing a black VR headset and a white protective suit, standing in front of a large screen displaying a colorful abstract painting. The person is holding a paintbrush over a white canvas, which has some yellow and red paint on it. The background is a blurred indoor setting.

The future starts
today with
**INTELLIGENT
AUTOMATION**

FUTURE OF VIRTUAL WORKFORCE

#AI+RPA = IA



UNDERSTAND

AI learning capabilities to understand and structure context, adapt to users and systems:

iOCR, NLP, PROCESS MINING, CHATBOTS,
VOICE TO TEXT, COMPUTER VISION

ORCHESTRATE

Auto-scaling depending on capacity
+ AI learning capabilities to handle judgment-oriented tasks:

MACHINE LEARNING
PREDICTIVE ANALYSIS

EXECUTE

RPA = to replicate human actions

USE CASE CHECK-IN CHATBOT RPA BOT



Interact with visitor

Chatbot

Greet visitor and ask input



Verify registration

Excel

Verify visitor registration



Wifi code & invite

Web

Generate Wifi code and
send Slack invite



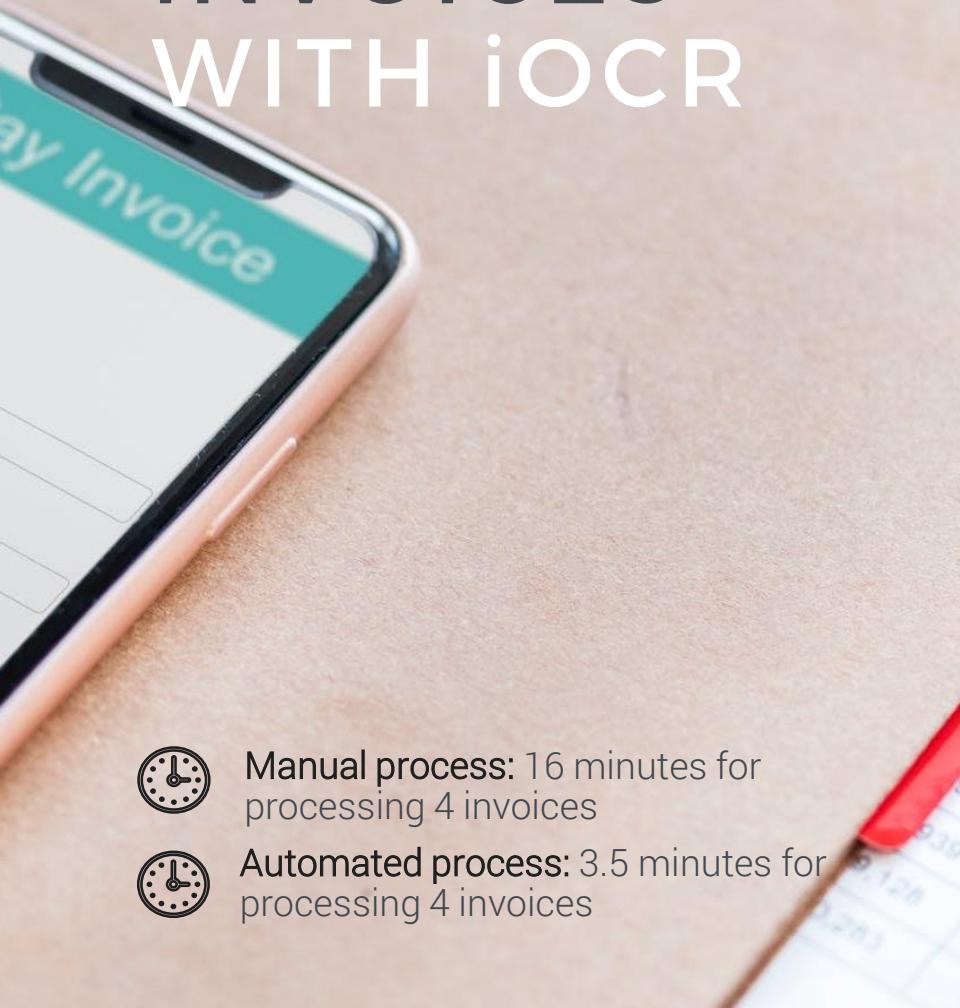
Print visitor badge

Dymo

Print badge with visitor name and company



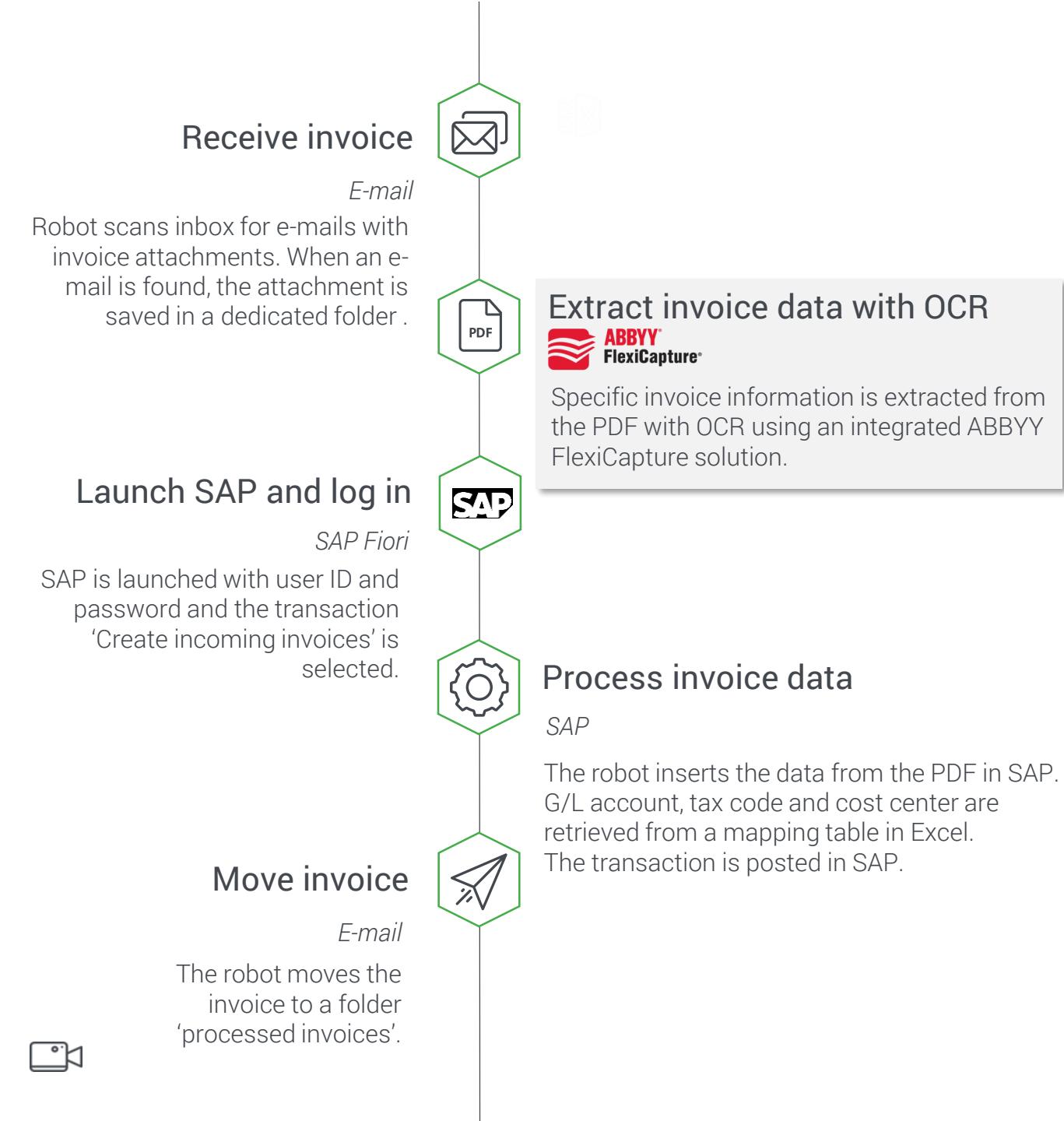
USE CASE INCOMING INVOICES WITH iOCR



Manual process: 16 minutes for processing 4 invoices



Automated process: 3.5 minutes for processing 4 invoices



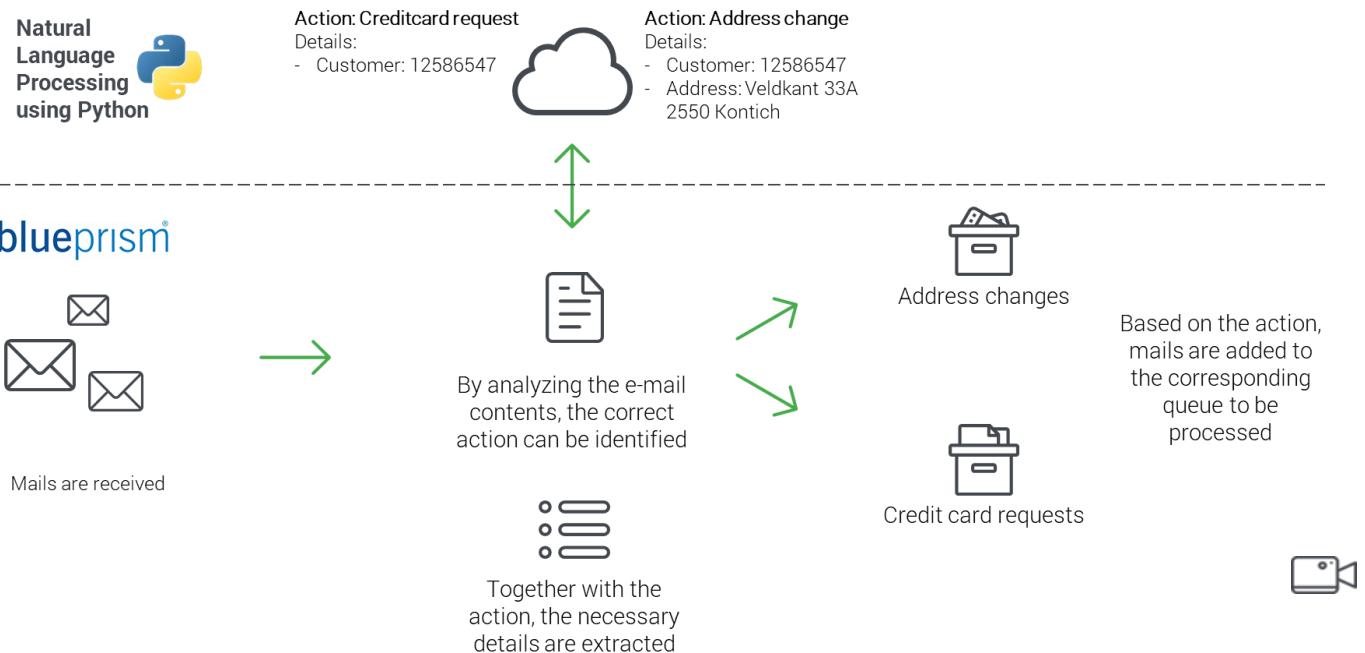
RPA + NLP

INTELLIGENT CONTENT EXTRACTION

We can categorize and understand unstructured data with the use of **Natural Language Processing (NLP)**. With a trained algorithm, the robot can recognize which process action is required and execute the flow accordingly. NLP can also be used for translation and text-to-speech actions.

NLP enables RPA processes to:

- Understand meaning of text
- Identify certain entities
- Categorize documents



LET'S AUTOMATE TOGETHER



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