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Learning and Knowledge Management (LKM)

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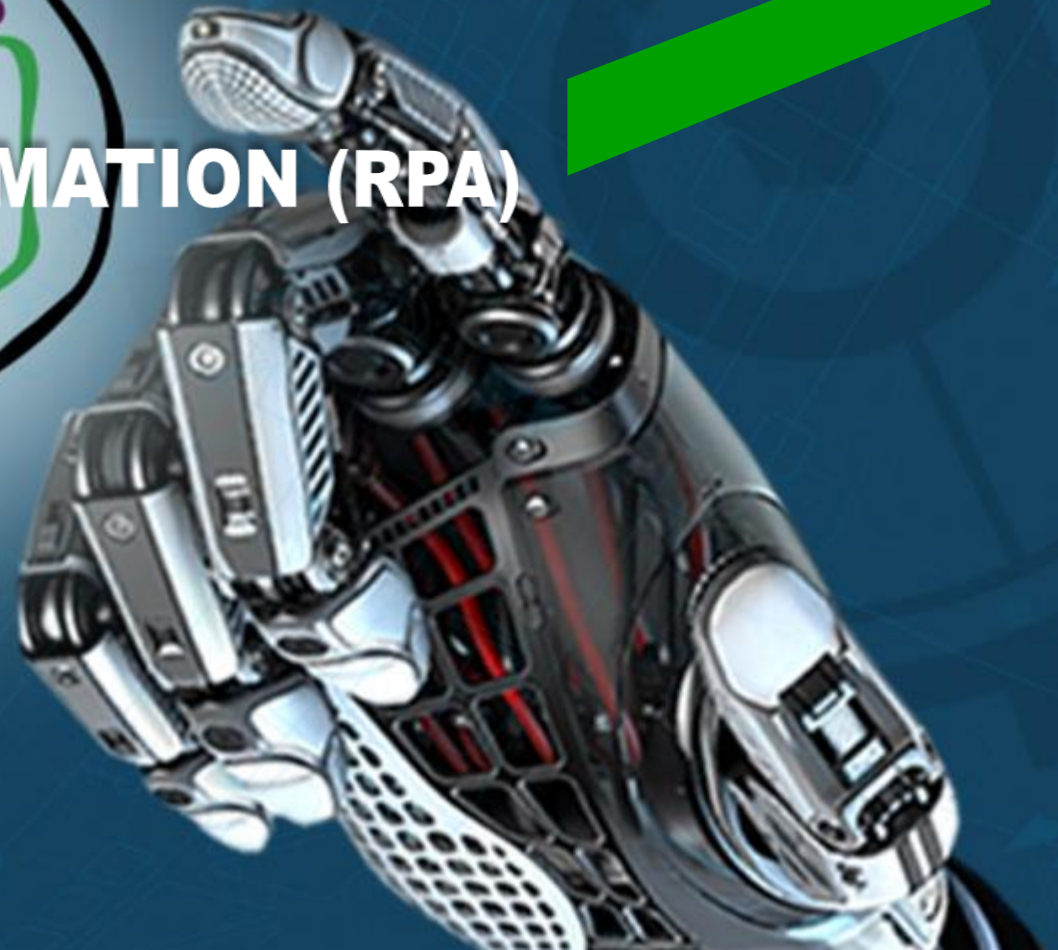
ROBOTIC PROCESS AUTOMATION (RPA)

an overview



Session Agenda: Blue Prism

Day #	Topic Name
Day 1	Introduction to RPA
	Tea Break
	Introduction to Blue Prism (Process, Object, Application modeler)
	Notepad Automation
	Data Items
	Lunch
	Publishing and Running Process from Control Room
	Web Automation – Text Extraction
	Tea Break
	Web Automation – Table Extraction
Day 2	Global Send keys usage
	Windows based application automation - Application Moeller
	Tea Break
	Windows based application automation – Object, Process, Excel
	Lunch
	Introducing to Loops
	Queues – Upload and Reading records from queues
	Tea Break
	Writing output back to excel

Session Agenda: Blue Prism

Day #	Topic Name
Day 3	Exception Handling
	Tea Break
	Blocks
	Environment Variable & Session variable
	Lunch
	Credential store
	Release Manager
	Tea Break
	Certification overview and Q &A
	Practice use cases

Session Agenda: Automation Anywhere

Day #	Topic Name
Day 1	Introduction to RPA
	A360 Registration and Installation
	Tea Break
	Introduction to A360 with hello world
	Web Automation – Text extraction
	Lunch
	Web automation - Table extraction and writing to excel
	Desktop automation - CDS NewOrder
	Tea Break
	CDS NewOrder – Using Excel and Loop
Day 2	Credential and Locker
	PDF Automation
	Tea Break
	Exception Handling and Logging exception to log file
	VB Script
	Lunch Break
	Web Automation – Pattern Extraction
	Tea Break
	Document Automation – IQ Bot
	Use case to practice

Session Agenda: Automation Anywhere

Day #	Topic Name
Day 3	AI Sense Recording
	Intro to Forms and password portal
	Design Forms
	Tea Break
	Forms -Task Bot implementation
	OCR – Extracting text from image file
	Lunch
	Usecase to practice
	Tea Break
	Certification overview and Q &A

Session Agenda: UiPath

Day #	Topic Name
Day 1	Introduction to RPA
	UiPath Registration and Tool Installation
	Tea Break
	Introduction to UiPath with Hello world
	Web Automation – Text Extraction
	Lunch Break
	Web Automation – Table Extraction and Pattern based data Extraction
	Windows Automation – CDS
	Tea Break
	CDS – Excel and Loop
Day 2	Orchestrator Overview
	Asset
	Tea Break
	Queue- Adding data from excel to Queue
	Exception Handling and Logging Exception Logs in text file
	Lunch Break
	Flowchart - Processing Queue records
	Computer Vision – Surface automation
	Tea Break
	State Machine

Session Agenda: UiPath

Day #	Topic Name
Day 3	Document Understanding
	Tea Break
	RE Framework Using Queue
	Lunch
	RE Framework Using Excel
	Tea Break
	Publishing Bot to Orchestrator
	Certification overview and Q &A

AUTOMATION, WHAT IS IT?

- AUTOMATION INVOLVES THE USE OF TECHNOLOGY, MACHINERY, OR SYSTEMS TO PERFORM TASKS WITHOUT DIRECT HUMAN INVOLVEMENT OR REDUCED HUMAN INTERVENTION
- ITS GOAL IS TO STREAMLINE PROCESSES, ENHANCE EFFICIENCY, AND REDUCE THE NEED FOR MANUAL EFFORT

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INTRODUCTION TO AUTOMATION

Automation is a process by which a procedure or task is executed with minimum human assistance

What does automation do

- Removes repetitive and unwanted task to enhance performance
- Frees human resources to be better utilized in more productive work

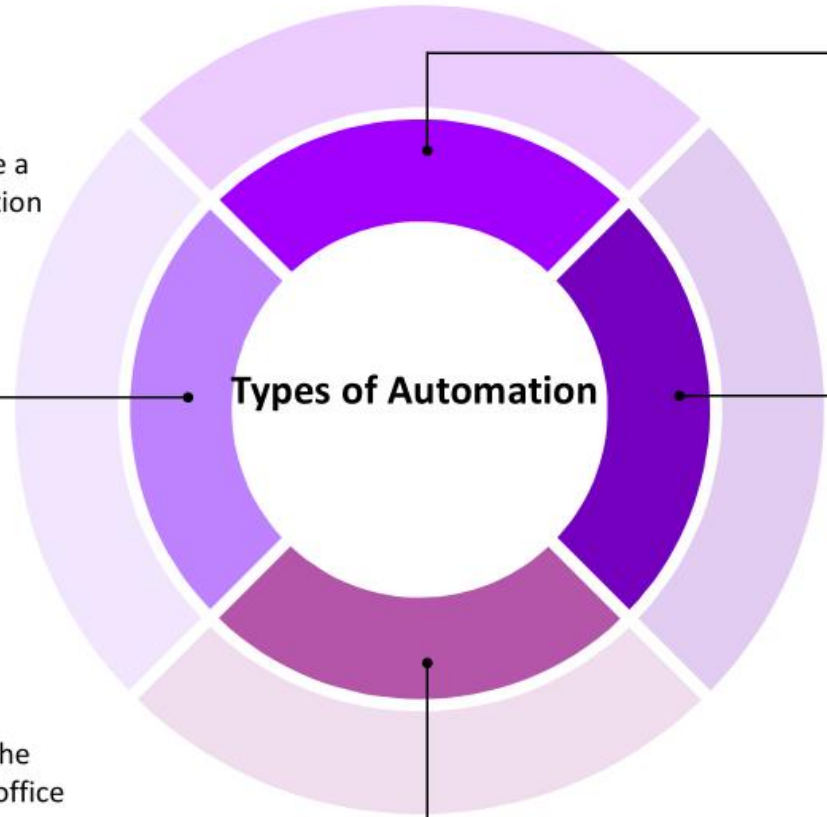
Where is Automation used

- It is used in mechanical production,assembly line production etc.
- It is integral to business & IT Sector to make them productive and profitable

Examples of Automation

- Automated bottle filling stations
- Automated order enteries

Fixed or Hard Automation
Involves specialized equipment designed to automate a specific set of tasks, suitable for high-volume production



Programmable Automation
Allows reprogramming of machines for different tasks, providing flexibility in production processes

Industrial Automation
Applied in manufacturing environments to control machinery, processes, and entire production lines

Process Automation or Office Automation Involves the use of computers and software to automate routine office tasks like data entry, document management, and communication.

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WHAT IS RPA

- Robotic Process Automation (RPA) refers to the use of software robots (bots) to automate repetitive, rule-based tasks, mimicking human interactions with digital systems.

- RPA is designed to improve efficiency, accuracy, and productivity in business processes

WHY RPA? BENEFITS FOR BUSINESSES

Cost Reduction: RPA reduces labor costs by automating mundane and repetitive tasks.

Increased Efficiency: Bots work 24/7 without the need for breaks, increasing throughput.

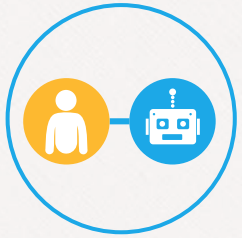
Accuracy and Compliance: RPA eliminates human error, ensuring consistent quality.

Scalability: Easy to scale automation processes across departments.

Employee Satisfaction: By automating tedious tasks, employees can focus on higher-value, creative work

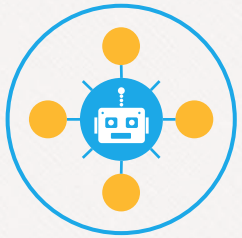
COGNITIVE RPA

Artificial Intelligence applied to RPA



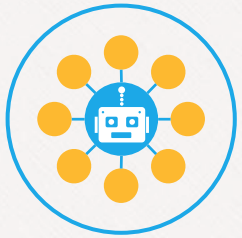
ROBOTS THAT MIMIC HUMAN LIKE COGNITION IN ANALYZING UNSTRUCTURED DATA

Use of Computer Vision, OCR, Natural Language Processing to read and understand complex documents (scanned documents, handwritten data, logos, stamps…)



ROBOTS THAT LEARN FROM OBSERVATION

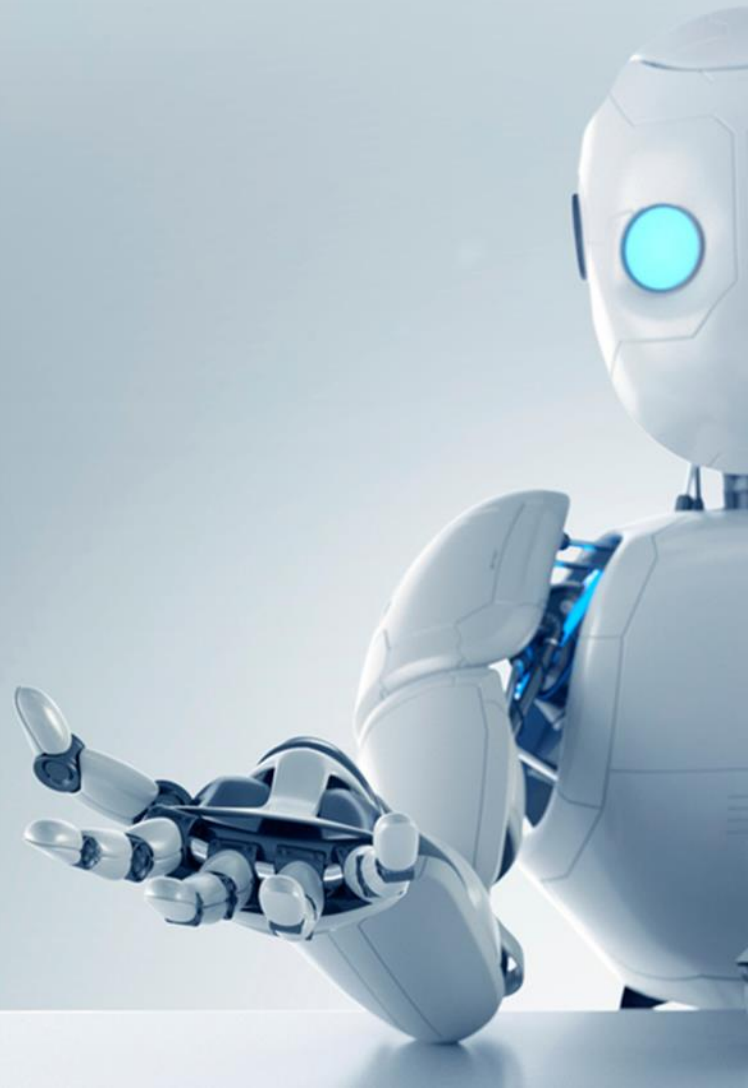
“Over the shoulder” observation of knowledge workers to verify compliance or document current processes



ROBOTS THAT IMPROVE OVER TIME

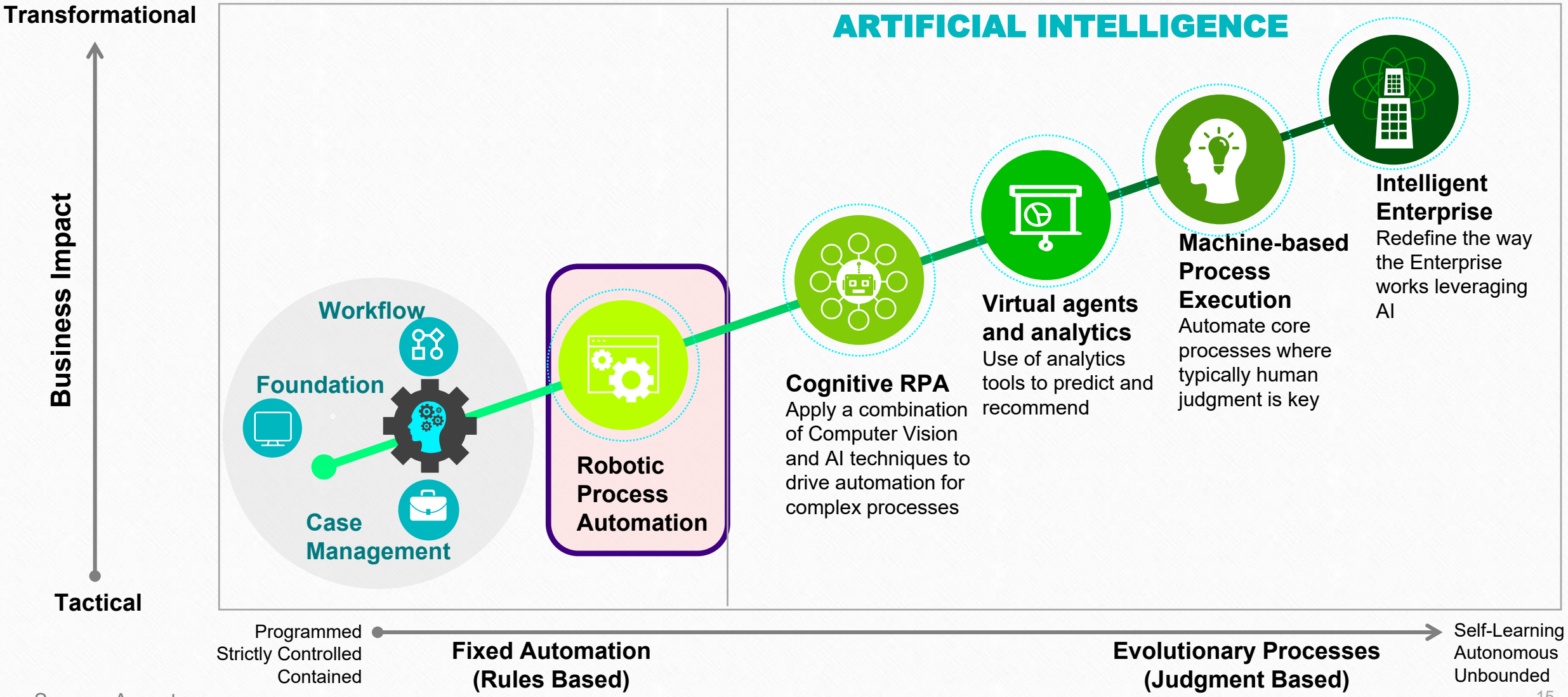
Use machine learning to group and classify processes and grow their capabilities over time

AUTOMATION SPECTRUM



INTELLIGENT AUTOMATION

Robotic Automation is a key building block in the Automation Journey. Combine RPA with AI to achieve breakthrough results



Source : Accenture

VIDEOS

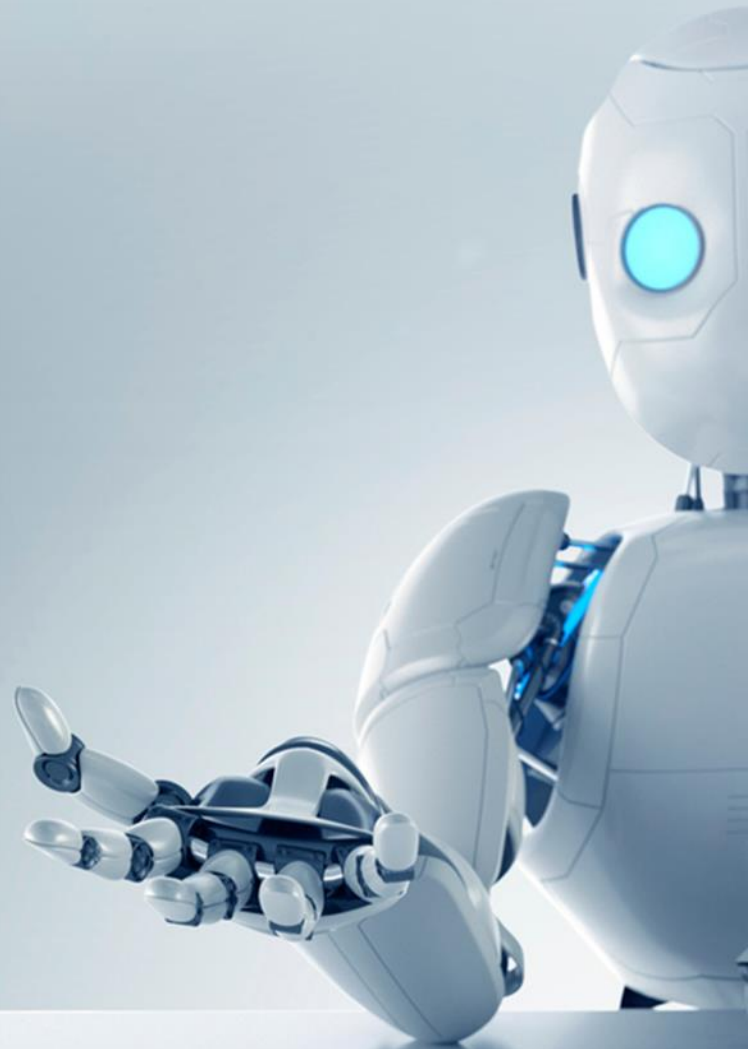
What is RPA: https://www.youtube.com/watch?v=9URSbTOE4YI

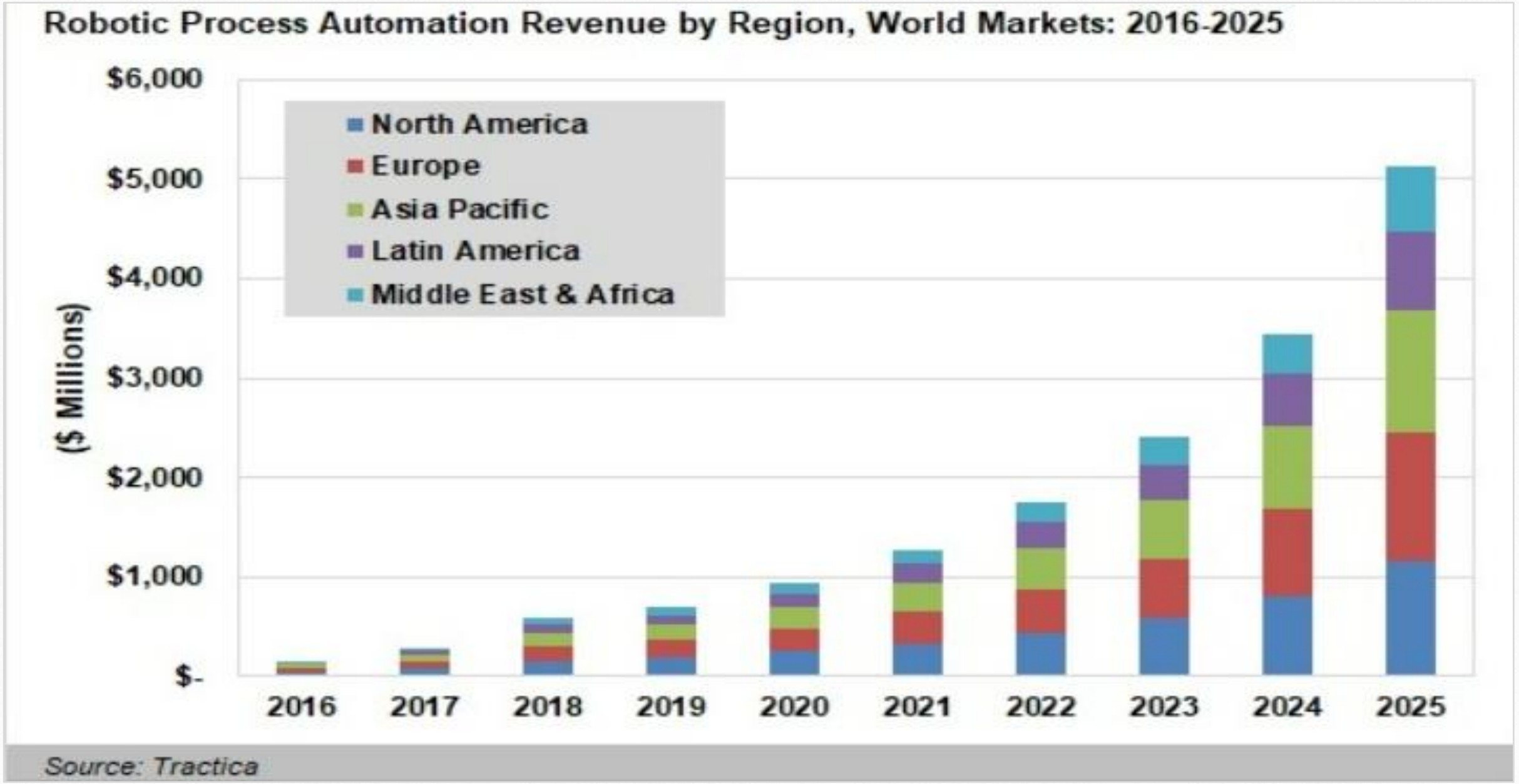
Why RPA: https://www.youtube.com/watch?v=hqtVWi8Y9Xc

Where to apply RPA: https://www.youtube.com/watch?v=zFrRo4p7ip0

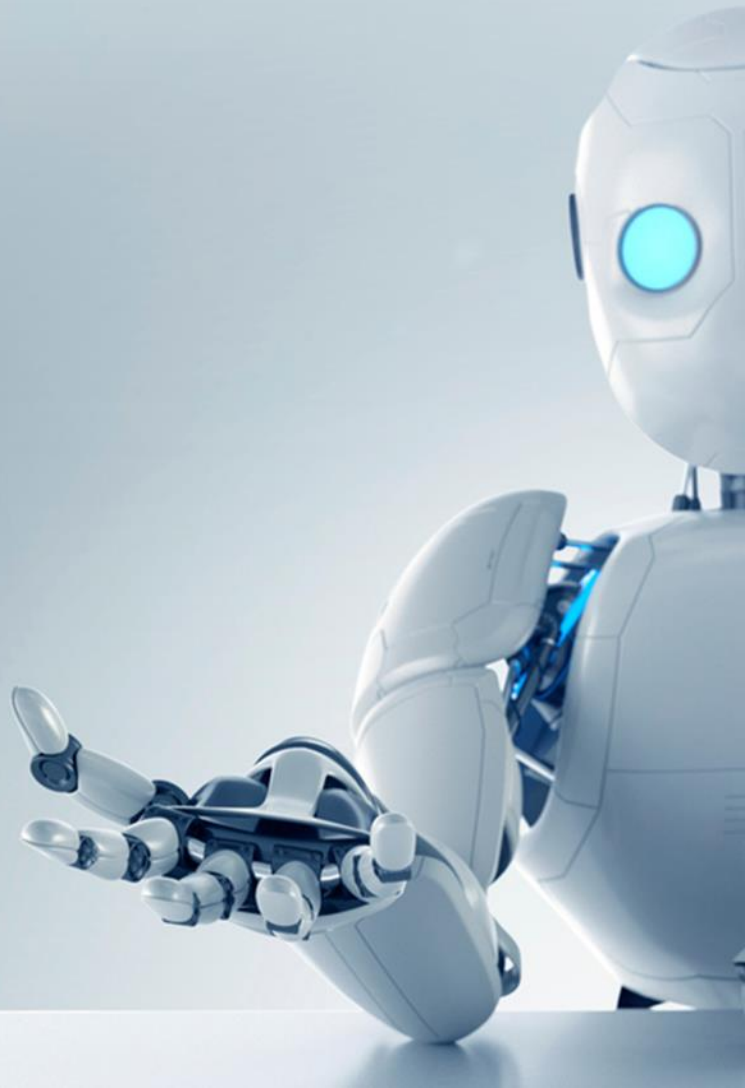
Myths about RPA: https://www.youtube.com/watch?v=2MTN09_xIBo

MARKET TRENDS




Robotic Process Automation Revenue by Region, World Markets: 2016-2025
$6,000
$5,000
$4,000
$3,000
$2,000
$1,000
$-
($ Millions)
North America
Europe
Asia Pacific
Latin America
Middle East & Africa
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
Source: Tractica

RPA TOOLS



STATE OF THE MARKET: ROBOTIC AUTOMATION ECOSYSTEM

An RPA tool operates by deploying software script that emulates a human process/task within a workflow. This runtime executable of the RPA script is commonly referred to as “robot” or “bot.” All RPA tools consist of a control dashboard/orchestrator, which can be used to manage these robots or bots.

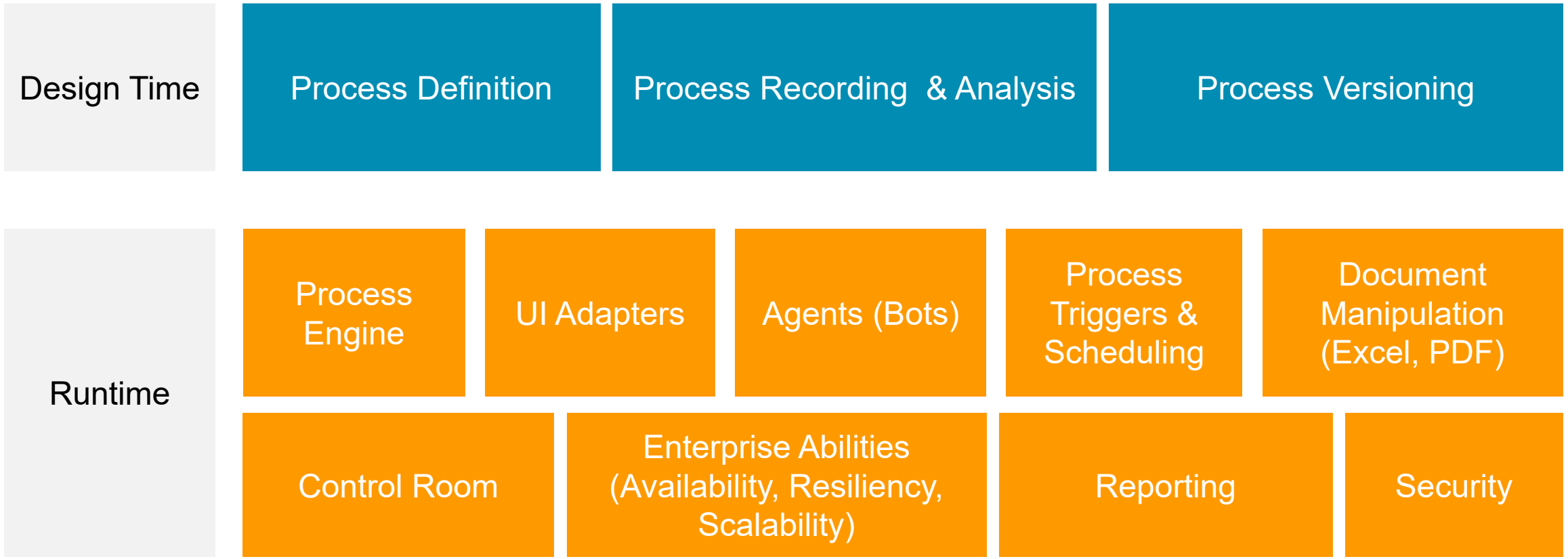
At a minimum, RPA software tools must include the following core capabilities:

•Low-code capabilities to build automation scripts

•Integration with enterprise applications

•Orchestration and administration including configuration, monitoring and security

Anatomy of RPA Tool



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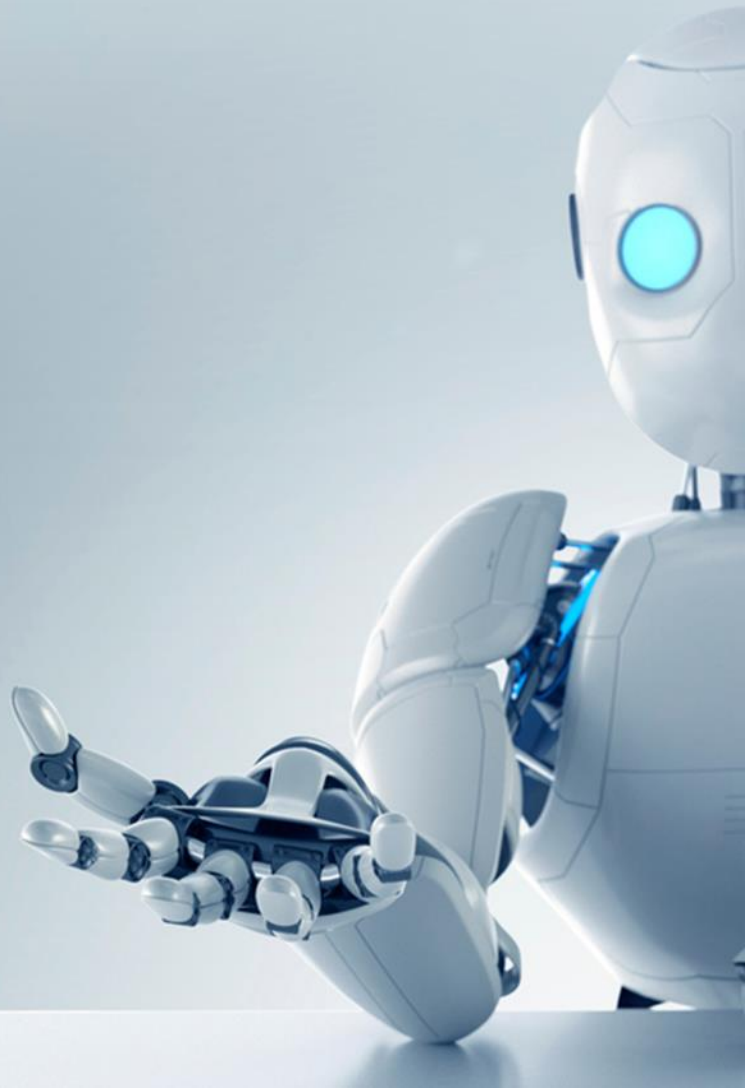
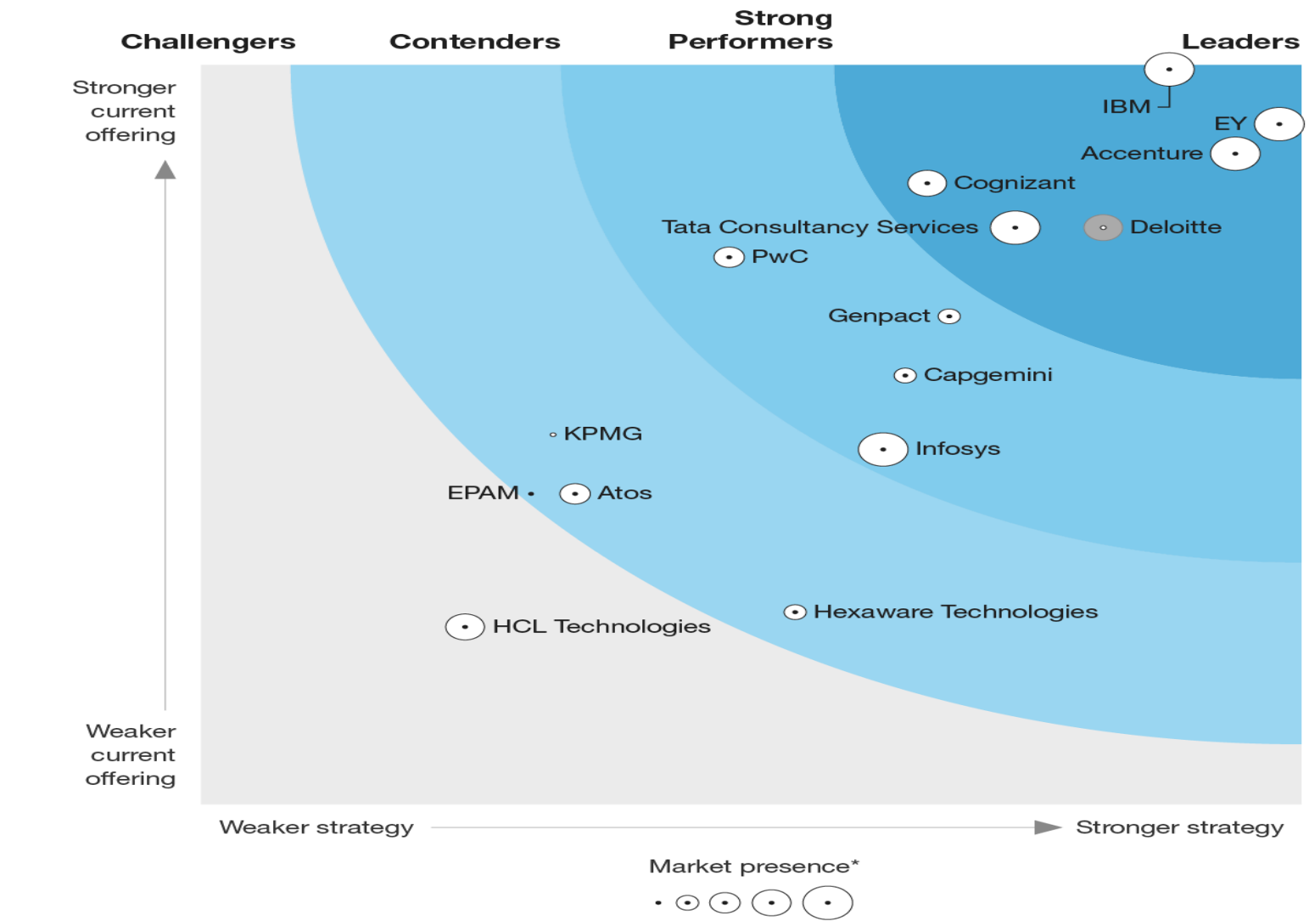
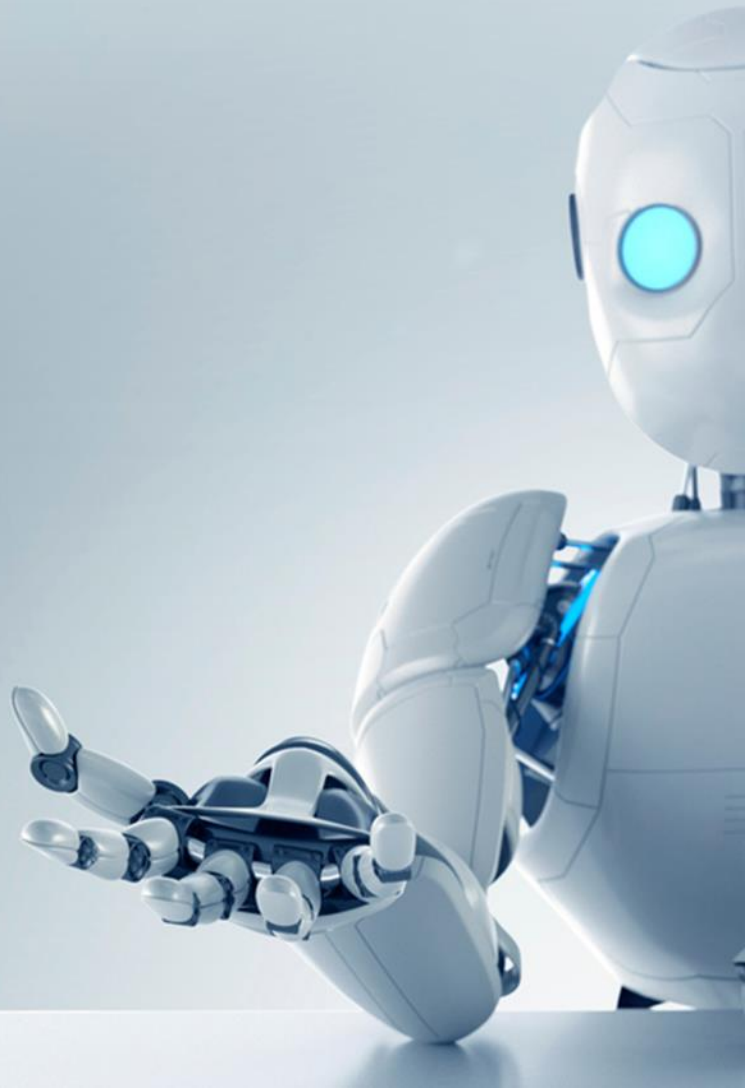
AUTOMATION @ ACCENTURE?



RPA SERVICES



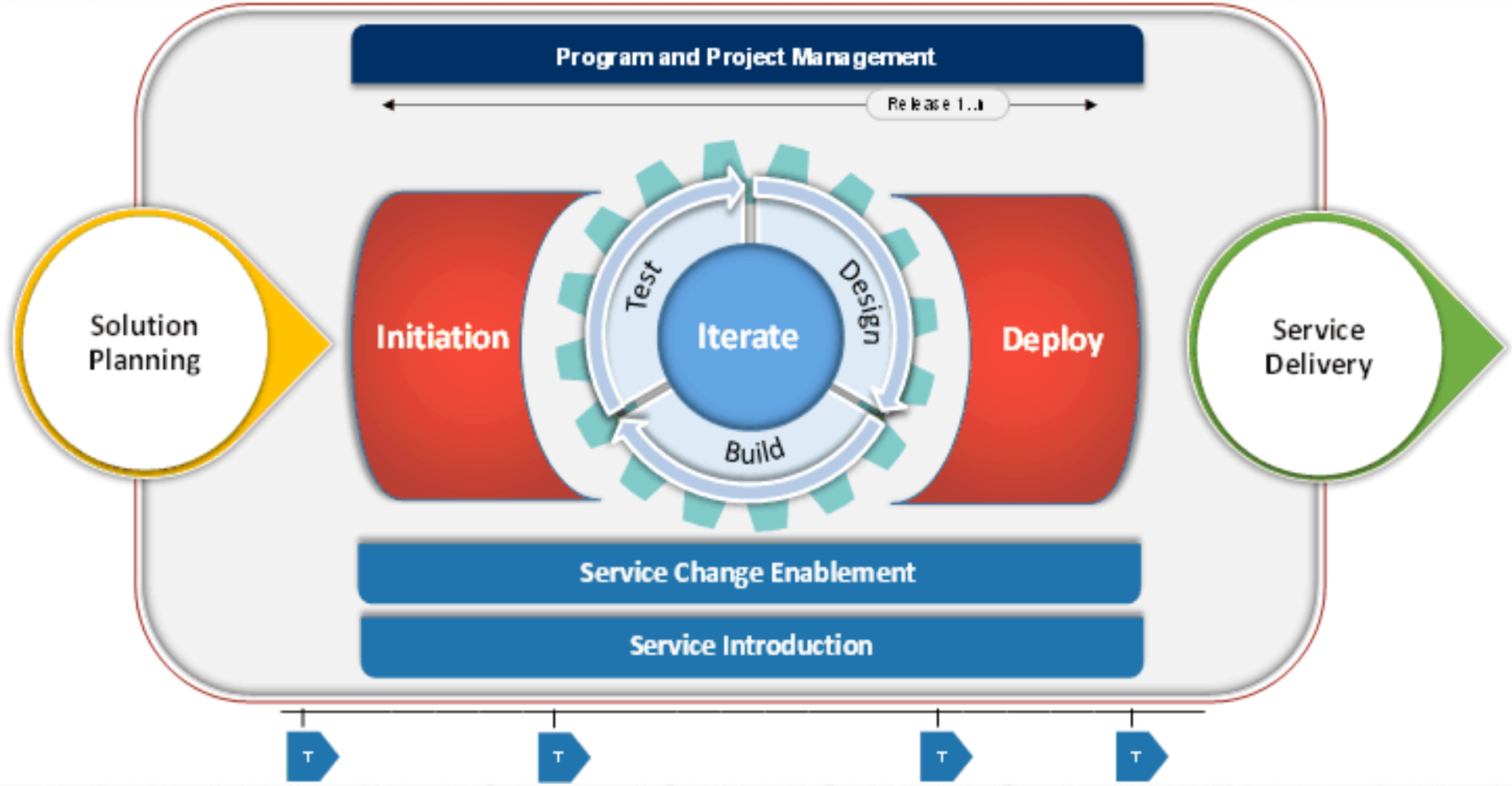
ADM FOR RPA



ACCENTURE'S DELIVERY METHODOLOGY FOR AUTOMATION IMPLEMENTATION

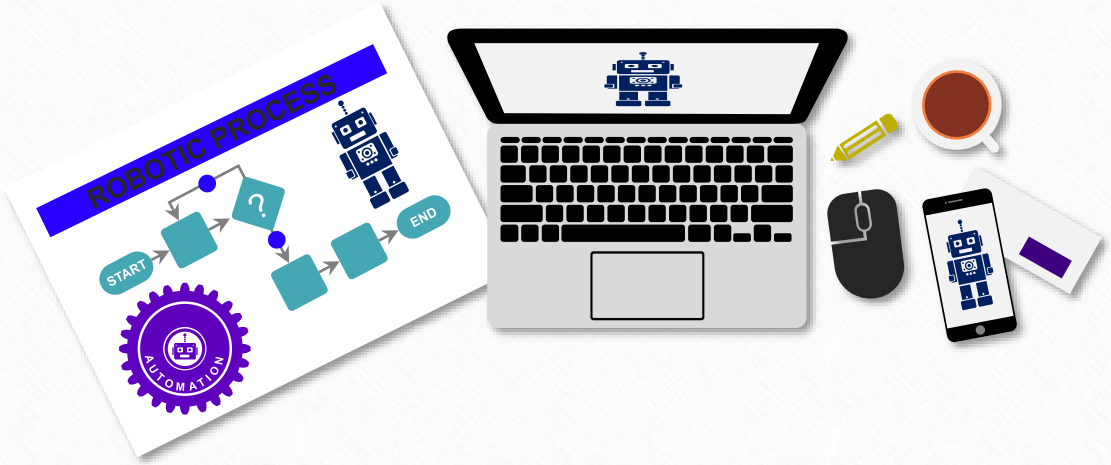
Accenture Delivery Methods for Robotic Process Automation provides guidance for the full cycle of solution development

https://methodology.accenture.com/rpa/



Source : Accenture

Q&A

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ти благодарам
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