

The background of the top section features a dark blue field with glowing white and light blue network-like patterns. These patterns include interconnected nodes and lines, as well as circular, spiral-like structures that resemble data or neural network visualizations. A white rectangular box with a red vertical bar on its left side is positioned on the left side of this graphic, containing the main title.

## ABBYY Content Intelligence for Robotic Process Automation

### Turning Unstructured Content into Structured, Actionable Information

Robotic Process Automation (RPA) has become recognized as a transformative approach to automating business processes that once seemed unattainable due to cost, time, and lack of IT resources. Today, software robots can be quickly designed and deployed to automate mundane repetitive, structured tasks that staff would otherwise be responsible for, such as copying and pasting data between multiple applications.

As robotic automation increases, enterprises are looking for ways to expand the use of these digital workforce robots. A catalyst for rapid RPA adoption is a robot's ability to automate content centric processes involving images, documents, text, and email. However, the challenge is these types of content are often unstructured. Content needs to be transformed into meaningful structured information to be useful and integrated into a process.

The answer is simple. ABBYY Content Intelligence technologies and solutions turn unstructured content into structured, actionable information. It helps organizations around the world digitize their operations, dramatically improve the customer experience, greatly reduce operating costs and increase competitiveness.

#### Key Functionalities

- Automatically processes all types of documents from email, scanners, fax, and mobile.
- Leading OCR technology that supports 200+ languages, recognizes machine printed text, handprint, 1D and 2D barcodes, and checkmarks.
- Intelligently identifies, sorts, and separates documents using machine learning and AI-based technology.
- Automatically extracts data and insight from documents and images based on business logic and/or machine learning.
- Validation client for reviewing and approving data and processes.

#### Benefits to an RPA Solution

- Increase operational efficiency for your content centric processes.
- Automate the understanding of documents and transform data into actionable, electronic business information.
- Expand RPA usage to support strategic digital transformation initiatives across the enterprise.

# Robotic Process Automation

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## RPA & Content intelligence: Connecting to Solve the Content Problem

When organizations combine Robotic Process Automation with content intelligence, the ability to automate a wider range of processes and deliver greater business value becomes reality.

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### RPA + Content Intelligence: Transforming Your Business Unlock the value of content and digitize processes



Robotic Process Automation



Content Intelligence

Helps overcome system and process limitations

Non-invasively mimics users' activities

Process structured data from systems, spreadsheets, documents

Automation is rules based

Highly deterministic

General employee assisted digital worker

Provides understanding of content associated with the process

Mimics human thought process through vision, language, and pattern detection

Process structured, semi-structured, and unstructured content

Supervised learning of documents, and improves over time based on human input

Applies learning, but can also have safeguards built in that involve humans

Highly skilled digital worker with understanding of content

## Content Intelligence – Adding Value to RPA

Content intelligence benefits organizations at all levels of RPA – starting with the most basic automation robots all the way to designing robots that automate tasks involving more intuition, judgement, and problem solving.

ABBYY technology and solutions are complementary to all three digital classes of RPA. It applies OCR, machine learning, natural language processing (NLP), and text analytics technologies to identify and classify content, extract data, while continuously learning from human input.

# Robotic Process Automation

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## 3 levels of automation and impact on business value

TECHNOLOGY: OCR, Machine Learning, Natural Language Processing, Cognitive

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### BASIC RPA

Robots used to extract and interpret existing applications for the purpose of automating rules-driven transactions.

*CONTENT INTELLIGENCE:*  
Digitize, Searchable Content,  
Screen Scraping



### ENHANCED RPA

Robots are able to understand unstructured content and apply it to process automation.

*CONTENT INTELLIGENCE:*  
Digitize, Classify, Extract, Learn



### COGNITIVE AUTOMATION

Robots automate tasks involving intuition, judgement or problem solving. Mimics human intelligence and judgement.

*CONTENT INTELLIGENCE:*  
Analyzing and understanding of text (sentiment, intent, relationships), continuously learning.

← **ABBYY** Content Intelligence Technologies and Solutions →

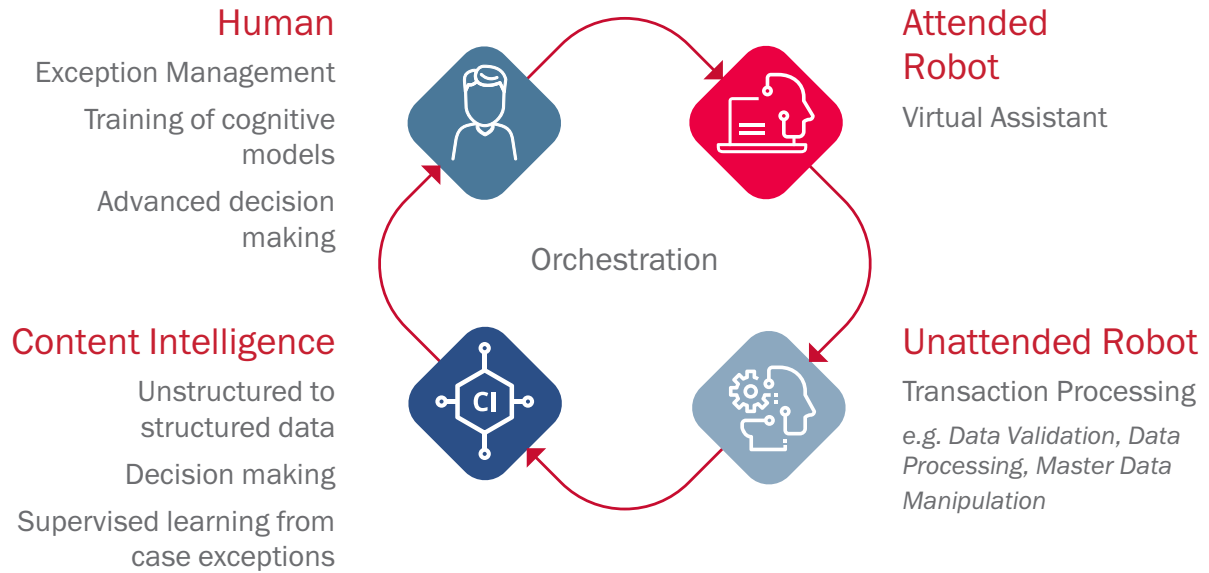
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## Making Robots Smarter with Content Intelligence

ABBYY Content Intelligence technologies and solutions are utilized in many ways with robots whether those robotic processes are supervised operations initiated by a front office worker, or automated back office tasks by an unattended robot. ABBYY solutions can be the start of any process where content is digitized, documents are classified, data is extracted, and validation is performed. The robot then follows by taking action based on the structured information the ABBYY solution delivers.

Similarly, ABBYY can be inserted as a step into a robotic process to provide deeper insight. With this option, a robot calls one or more of the ABBYY services – classification, and/or data extraction – and provides results that enable the robot to continue with the process. Staff can also participate in the validation and review of data that ABBYY solutions deliver to the robot.

# Robotic Process Automation



## Notable Industry Use Case Examples

Organizations are identifying several business-critical processes for deploying RPA and automating content involving images, text, emails, and documents. By combining RPA and content intelligence, organizations achieve end-to-end automation for content centric processes, increase the digital workforce footprint, and support the organization’s digital transformation initiative.

The following industries illustrate common use cases where a robot excels at leveraging content intelligence to automate a wide-array of content centric processes:

Finance & Accounting	Logistics	Financial Services	Insurance
Invoices Purchase Orders Sales Orders	Customs Declarations Proof of Delivery Bills of Lading Reports	Mortgage Lending Account Opening Customer Onboarding Trade Confirmation	Claims Policy Administration Customer Onboarding Account Opening

# Robotic Process Automation

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## Content Intelligence Product Offerings for RPA

**ABBYY FineReader** – Available as a desktop and server-based application and SDK, FineReader is an all-in-one OCR and PDF software application. It makes robots smarter by converting content (documents, images and PDFs) into digitized information for robots to process.

**ABBYY FlexiCapture** – Add intelligence to robotic business processes, by intelligently classifying and extracting data from structured, semi-structured, and unstructured content.

**ABBYY FlexiCapture for Invoices** – A business-ready solution for automating the capture of invoice data. It enables organizations to dramatically increase the productivity of accounts payable processes, while lowering cost.