

Being **Microsoft Certified Partner** our strong foothold on Microsoft consulting services will help you evolve Power Automate.

POWER AUTOMATE CONSULTING

- ✓ Previous name as Microsoft Flow
- ✓ Part of Microsoft Power Platform
- ✓ Process automation for a better tomorrow.

Cognitive Convergence

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Power Automate

- ✓ A service that lets the users create automated workflows between apps and services.
- ✓ Enables everyone whether technical or non-technical to build secure workflows with no prior coding experience.
- ✓ Streamlines repetitive tasks and automate manual process, so other critical are more focused to resolve.
- ✓ Like other components of Microsoft Power Platform family, Power Automate is completely safe and secure as it is hosted on Azure.
- ✓ Provides seamless integration with more than 300 data connectors.

Our consulting services for Power Automate are as follow:

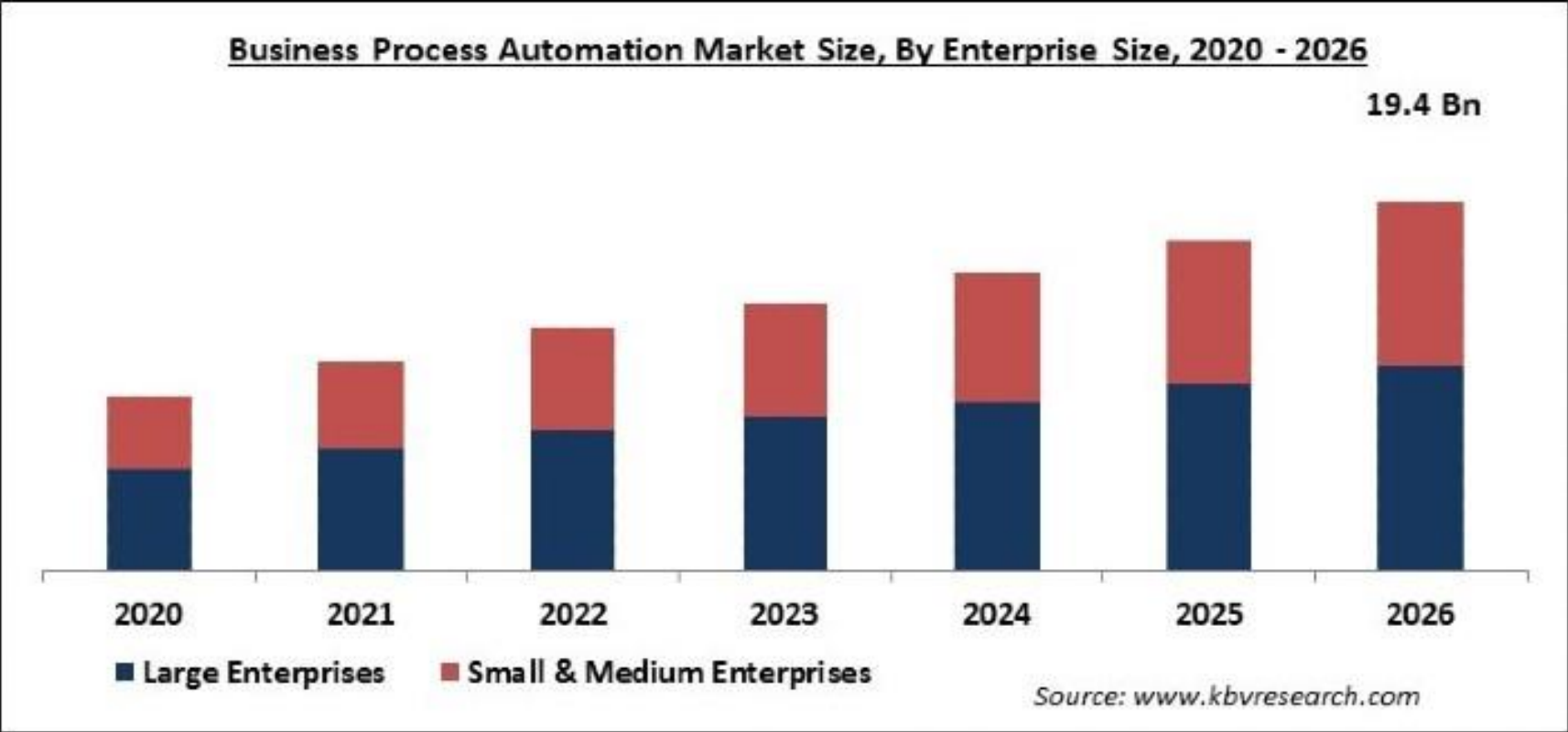
- ✓ Robotic Process Automation to track step-by-step actions, such as keyboard usage, data entry, and then replicates these actions into smart automatic activate workflows
- ✓ Seamless connections
- ✓ Identify and access management
- ✓ Share and Access Data
- ✓ Connect to data sources to boost productivity
- ✓ Scalable and robust apps



Market Potential

The Global Business Process Automation Market size is expected to reach \$19.4 billion by 2026, rising at a market growth of 13.2% CAGR during the forecast period.

Source: KBV Research, <https://www.kbvresearch.com/>



USE CASE I

Following are some use cases of Power Automate:

- ✓ Deploying Lists and Libraries – to provision lists and libraries to be used for User Acceptance Testing, Development, Production, contact information, etc.
- ✓ Populating a List OR Migrating a simple Excel Table contents to a SharePoint List
- ✓ Provisioning an Azure Active Directory User with Power Automate
- ✓ Transfer test results into the Electronic Health Record system
- ✓ Data tracking and document processing
- ✓ Order placement, tracking, and delivery processes
- ✓ From approval request to a response
- ✓ Virtual reality with Power Apps for project planning & training
- ✓ Intake form process to on-premise data source
- ✓ Workflows into ERP solutions
- ✓ Return processing

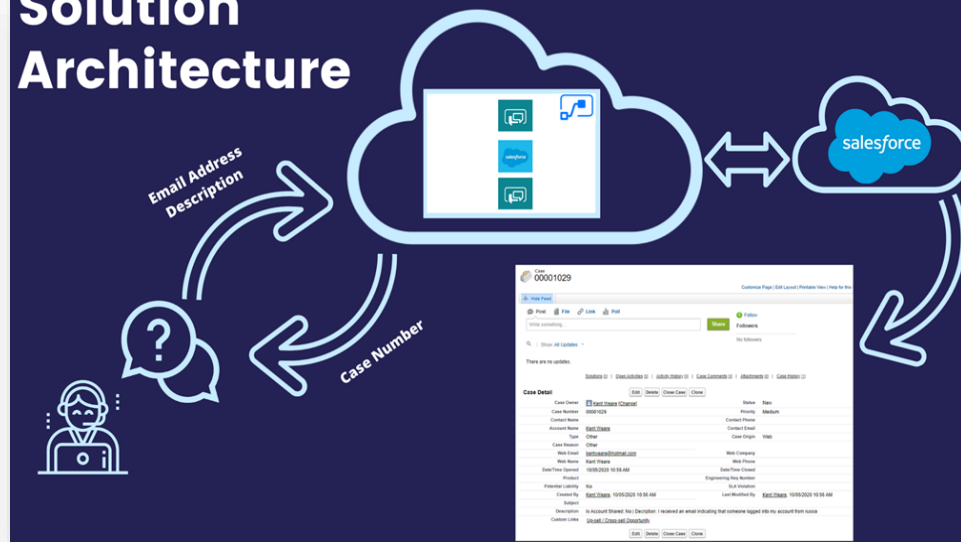


USE CASE II

Some more use cases of Power Automate:

- ✓ Automate HR processes such as onboarding and offboarding, payroll, and reporting
- ✓ Linking when emails are received, as well as picking out documents and loading them into SharePoint folders
- ✓ Digitalize all Excel-based processes on a SharePoint page and link the libraries with the transactional data
- ✓ Credit card operation customer complaints
- ✓ Geofencing features to trigger updates to a SharePoint list on the movement of personnel around construction sites
- ✓ Validating the SharePoint page publishing, investments approvals and financial approvals
- ✓ Create flows to make data automation in websites
- ✓ Business automation such as sending reminders
- ✓ Automated Invoicing
- ✓ Automated document management – fetch, scan, and share
- ✓ Workflow applications and business process applications
- ✓ Log when personnel entered and left a sites

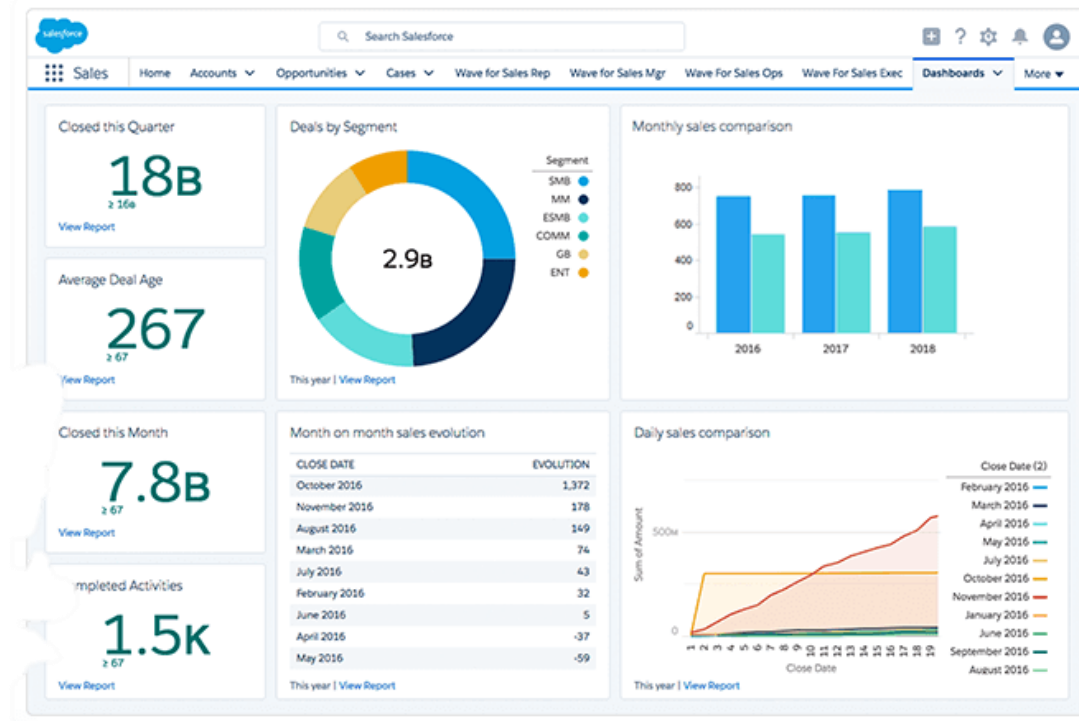
Solution Architecture



USE CASE III

Some more use cases of Power Automate:

- ✓ Routinely collecting popular tweets with company name or product mentions
- ✓ Receive an email with an overview of new opportunities logged in different sectors such as Microsoft Dynamics 365, power apps, custom connectors, etc.
- ✓ Move files between SharePoint libraries or within OneDrive (accounts and folders)
- ✓ Manage calendar with automated time-blocking
- ✓ Create and share reports via OneDrive or email
- ✓ Automatically save e-mail attachments
- ✓ Manage Holiday Requests and Approvals employees via Teams
- ✓ Get a push notification when receive an email from senior management
- ✓ Create and share project reports of Power BI
- ✓ Copy important emails to OneNote
- ✓ Request Approval for new documents and notify



USE CASE IV

Some more use cases of Power Automate:

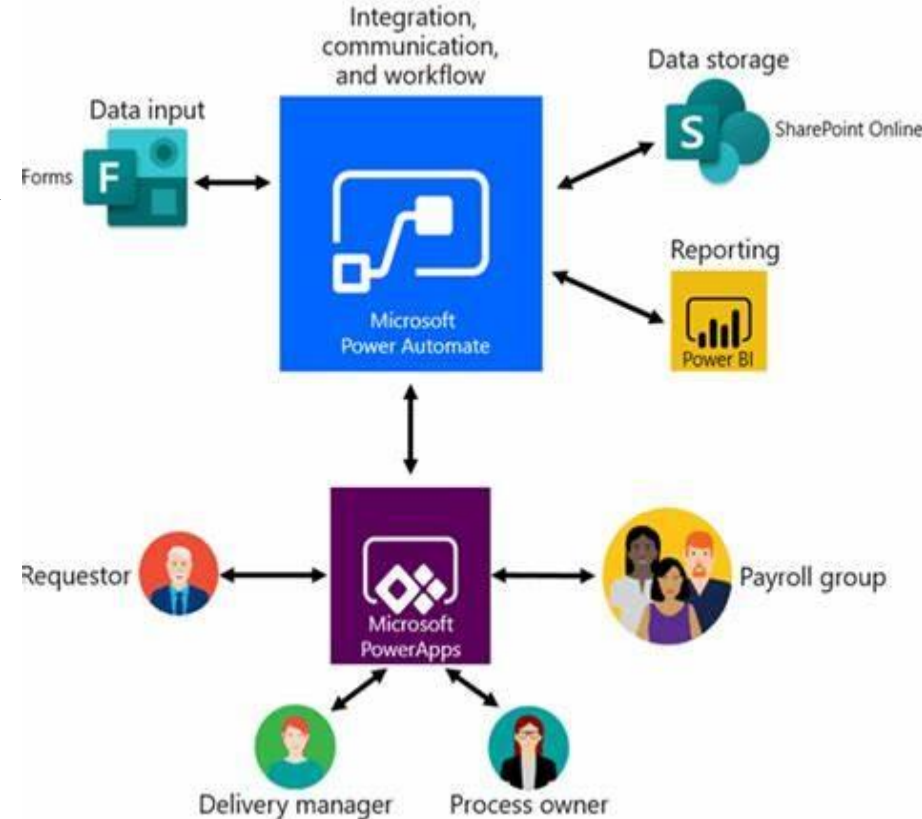
- ✓ Scan an Image Including Text: Flow will send not only the image just scanned, but an email containing the recognized text for easy manipulation.
- ✓ Selectively Post Instagram Photos to Facebook: Use of a special word or phrase will “trigger” the posting of the same to Facebook
- ✓ Forward Your Mail: Send new email messages to a designated slack channel for easy review and reading
- ✓ Keep Everyone in the Loop: Notify team when a new response is recorded in Forms.
- ✓ Creating Bots that integrate with Dynamics 365
- ✓ Serverless computing: Take mind off infrastructure issues.
- ✓ Flow Integration with Azure Functions using Postman
- ✓ Fillable PDF Forms
- ✓ Save Email attachments from trusted recipient whenever they arrive
- ✓ Track expenses through receipt images and add into Excel spreadsheet for reporting



Consulting Services by Cognitive Convergence

Our Power Automate Consulting services can be used to create new workflow automation solution that can be used to access application and service data making it easier to combine different services.

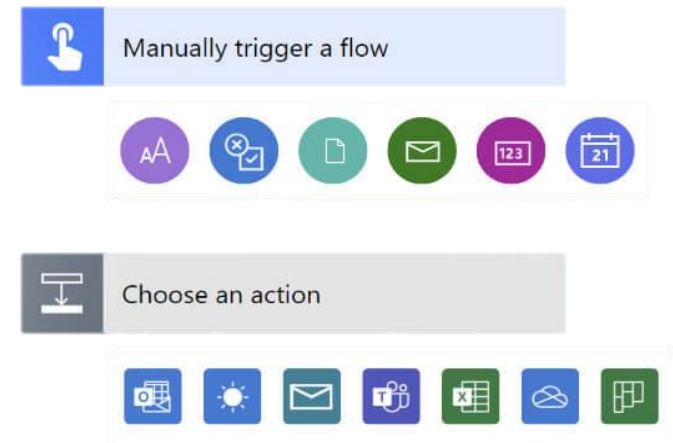
- ✓ Design and build custom end-to-end solutions using Microsoft Power Automate and POC
- ✓ Seamless Integration
- ✓ Identity and Access Management
- ✓ Power Automate mobile app
- ✓ AI Builder
- ✓ Microsoft Power Automate planning and consultation
- ✓ Support and maintenance
- ✓ Migration from legacy to a modern Flow system
- ✓ Work with built-in Flow templates
- ✓ Customizable workflow to automate repetitive tasks
- ✓ Customized data loss prevention policies
- ✓ Triggered workflow for simplified approvals
- ✓ On-premise and cloud integrations



Power Automate - Architecture

Different connectors, having different triggers and actions to fulfil the business needs. Through Power Automate, a user can trigger flow on any event occurrence. Perform any desired action through power automate in all the available standard as well as premium connectors. Some examples of triggers and actions are enlisted below:

- ✓ Office 365 Outlook Triggers
- ✓ SharePoint Triggers
- ✓ Dataverse Triggers
- ✓ MS Teams Triggers
- ✓ SQL Server Triggers
- ✓ Manually trigger a flow
- ✓ 230+ connectors with unlimited triggers
- ✓ Conditions, Compose, Variables, Loops, Terminate, Switch control actions
- ✓ SharePoint actions (Create a file, modify an item, etc)
- ✓ Dataverse actions (Create a record, Update a row, delete a row, etc.)
- ✓ Outlook actions (Send an email notification, Create contact, Delete email, etc.)
- ✓ Notification actions
- ✓ Perform actions on Excel online, data tables and sheets
- ✓ Actions for OneDrive

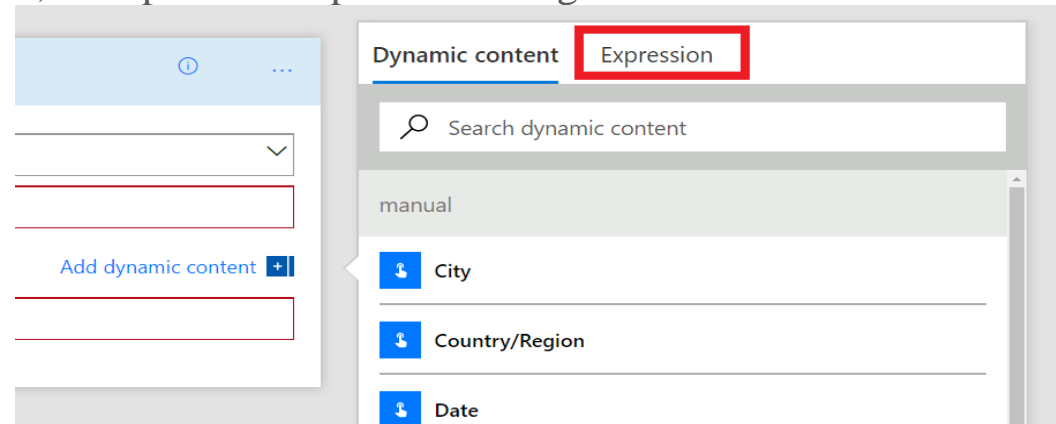


Power Automate - Expressions

With Power Automate expressions, we can perform operations on strings, dates, and numbers. Expressions are used in flow actions. They are Microsoft Excel-like formulas, from which the users can perform mathematical operations, convert data from one type to another, manipulate and parse data to get what is needed.

Expressions can be used to:

- ✓ Work with dates
- ✓ Manipulate strings
- ✓ Advanced content handling
- ✓ Text manipulations and formats
- ✓ Reduce human error
- ✓ Check multiple values



We provide our consultancy services to our clients so they can leverage the use of Expressions. We will help with:

- ✓ Use of **Low code expressions**
- ✓ Use of **or expression**
- ✓ Use of **and expression**
- ✓ Use of **greater expression**
- ✓ Use of **less expression**
- ✓ Use of **combined greater and less expressions in an and expression**
- ✓ Use of functions in expressions
- ✓ Get workflow run URL
- ✓ Get space into a variable
- ✓ Fix any failing switch

Power Automate - Data connectors

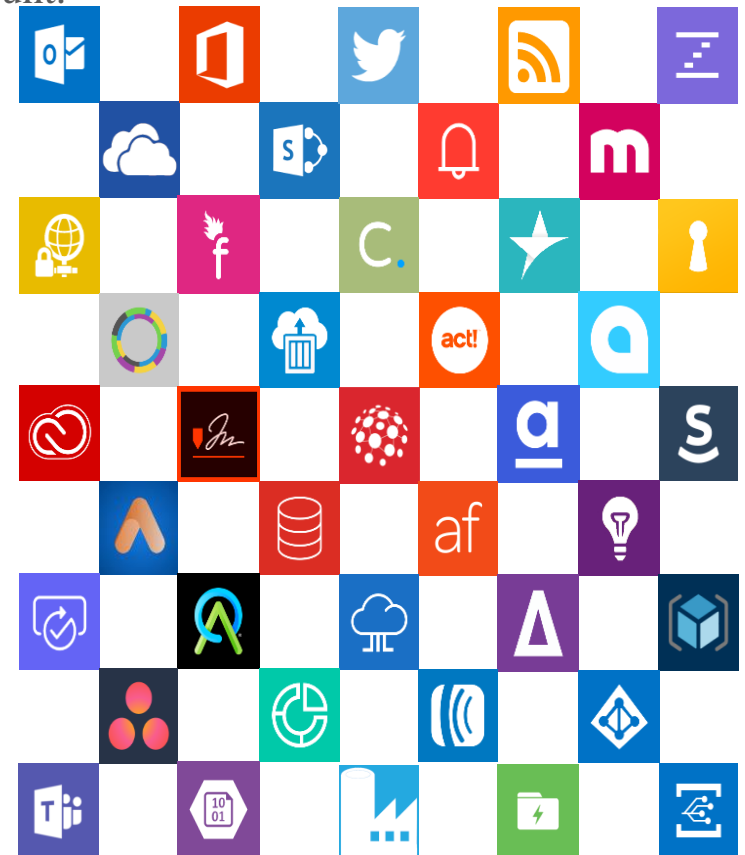
Power Automate is about building flows and connecting to different data sources. Data connectors allow to connect to more than 300+ 1st and 3rd party services with built-in connectors from Adobe to on-premises solutions. By using these data connectors, we can automate tasks including:

- ✓ Collect business data and share that information with the relative team.
- ✓ Create custom flows by browsing list of templates in the Microsoft
- ✓ Copy all email attachments to OneDrive for Business account.
- ✓ Respond to high-priority notifications or emails Instantly.
- ✓ Capture, track, and/or follow up with new potential sales leads.
- ✓ Automate approval workflows
- ✓ Automate approval loops
- ✓ Receive notifications
- ✓ Copy files
- ✓ Create actions to connect certain data

Types of Connectors:

There are two types of connectors available:
















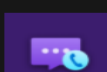




1. Built-in connectors
2. Custom Connectors



Power Automate - Built-in connectors

A connector is a proxy or a wrapper around an API that allows the underlying service to talk to Microsoft Power Automate, Microsoft Power Apps, and Azure Logic Apps. It provides users to build their apps and workflows by offering a way to connect their accounts and leverage a set of prebuilt actions and triggers.

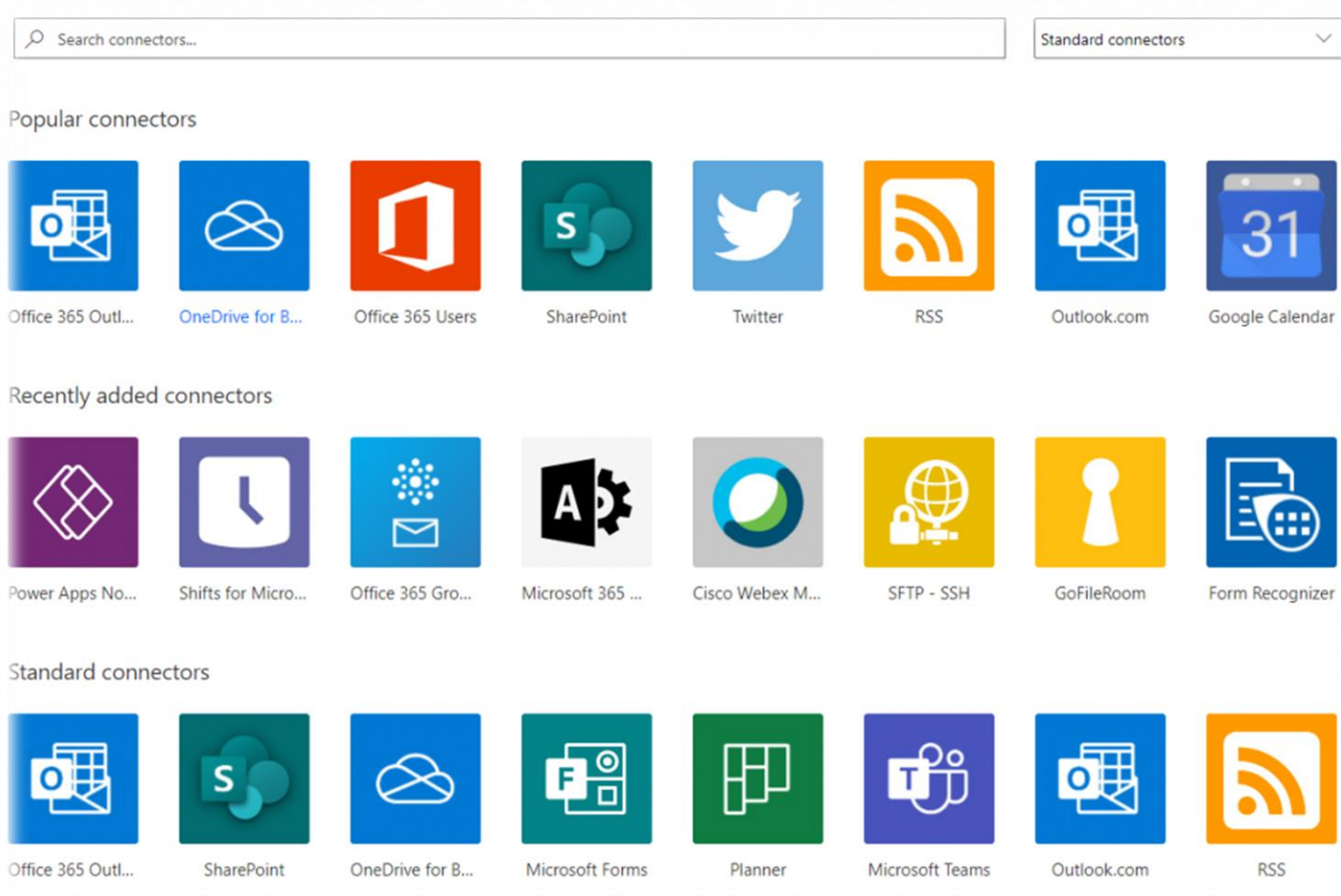
Some sample Microsoft Built-in Connectors

 Amazon Redshift By: Microsoft	 Amazon S3 By: Microsoft	 Amazon SQS By: Microsoft	 Apache Impala By: Microsoft
 Appfigures By: Microsoft	 Approvals By: Microsoft	 AS2 By: Microsoft	 Asana By: Microsoft
 AWeber By: Microsoft	 Azure AD By: Microsoft	 Azure AD Identity Protection By: Microsoft	 Azure App Service By: Microsoft
 Azure Application Insights By: Microsoft	 Azure Automation By: Microsoft	 Azure Blob Storage By: Microsoft	 Azure Communication Services SMS By: Microsoft
 Azure Container Instance By: Microsoft	 Azure Cosmos DB By: Microsoft	 Azure Data Explorer By: Microsoft	 Azure Data Factory By: Microsoft

Power Automate - Standard Connectors

Standard connectors are connectors within PowerApps that are freely available for use with level of licensing. They are available across the Microsoft Power Platform, and they can be utilized easily in not only Power Automate and Logic Apps but anything create in PowerApps.

Standard connectors include the commonly used data sources like OneDrive, SharePoint, or any other third-party data sources such as Google Drive. By using these connectors, a user can establish connections with data sources from both within PowerApps while editing or outside the PowerApps from the data.

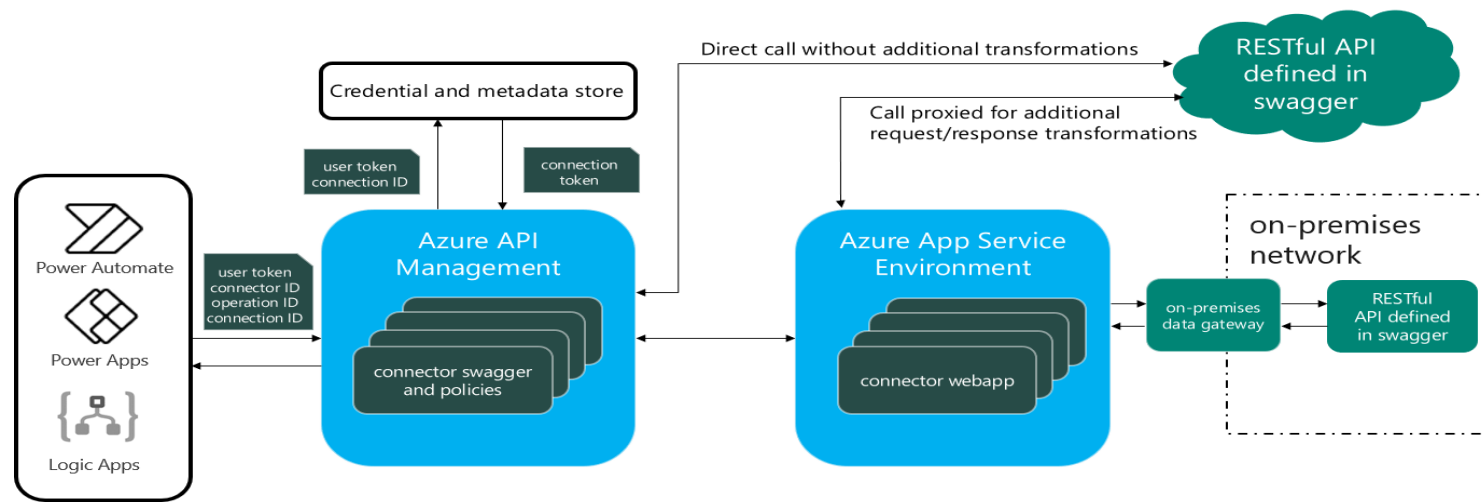


Power Automate - Custom connectors

If a user can have specific requirements from a connector, a custom connector is created as per need. They are created by defining own triggers and actions for connecting to those services which are not available in build-in connectors. When registering a custom connector, Power Automate is basically taught about the characteristics of web service to connect from Power Automate. Custom Connectors extend Power platform capabilities to connect to data sources.

Our services for Custom Connectors are:

- ✓ Use built-in Dataverse Service for Apps to store data, model processes and business logic
- ✓ Extend the usage of built-in 200 connectors to integrate data and systems
- ✓ Expand PowerApps further with custom connectors and logic
- ✓ Build custom connectors with predefined triggers and actions
- ✓ Build connectors for a wide array of web sites and web applications, extranets, and customer portals



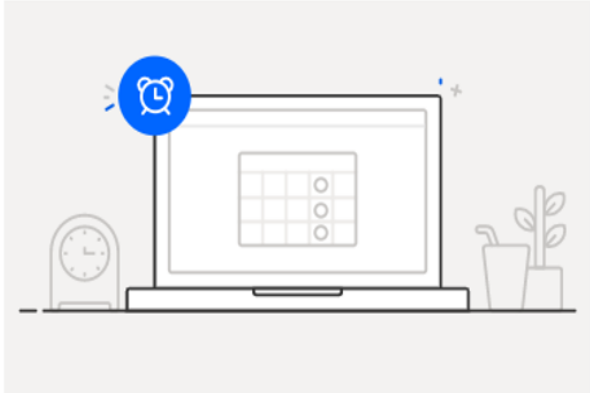
Power Automate - Scheduled Cloud Flows

Power Platform allows its user to create a cloud flow whenever he/she want automation to be triggered. It can be configured either automatically, instantly, or scheduled. Scheduled cloud flows helps to arrange an automation like daily data upload to SharePoint or a database. It can be used for tasks that need to be automated on a schedule. We can easily create a scheduled cloud flow that can have one or more tasks.

We will help you with:

- ✓ Creating flows as per need
- ✓ Build flows with defined actions and triggers
- ✓ Modify schedule by adding condition
- ✓ Troubleshooting for errors
- ✓ Store and manage values in variables

Build a scheduled flow ✕



Stay on top of what's important without the effort—you choose when and how often the flow runs.

Examples:

- Automate team reminders to submit expense reports
- Auto-backup data to designated storage on a regular basis

Flow name

Run this flow *

Starting * at ▾

Repeat every * ▾ *

This flow will run:
Every minute

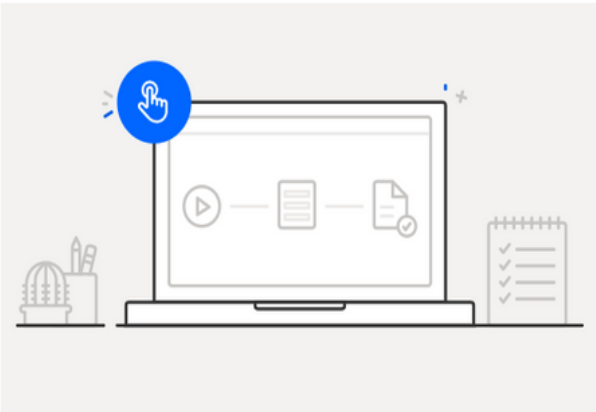
Power Automate - Instant Cloud Flows

Instant cloud flows start an automation with a click of a button. They help to automate for repetitive tasks either from Desktop or Mobile devices. A wide range of tasks such as requesting an approval, are available which can be used as an action item. Power Automate Instant Cloud Flow can be created outside or within a Solution.

Our core services for instant cloud flows are:

- ✓ Setting a list of triggers and actions as per requirements
- ✓ Troubleshooting for errors
- ✓ Managing prebuild or assigned flows

Build an instant cloud flow



Triggered manually from any device, easy-to-share instant flows automate tasks so you don't have to repeat yourself.

Examples:

- Get an automatic mobile alert whenever a VIP client emails you
- Save all your email attachments to a folder automatically

Build an instant cloud flow

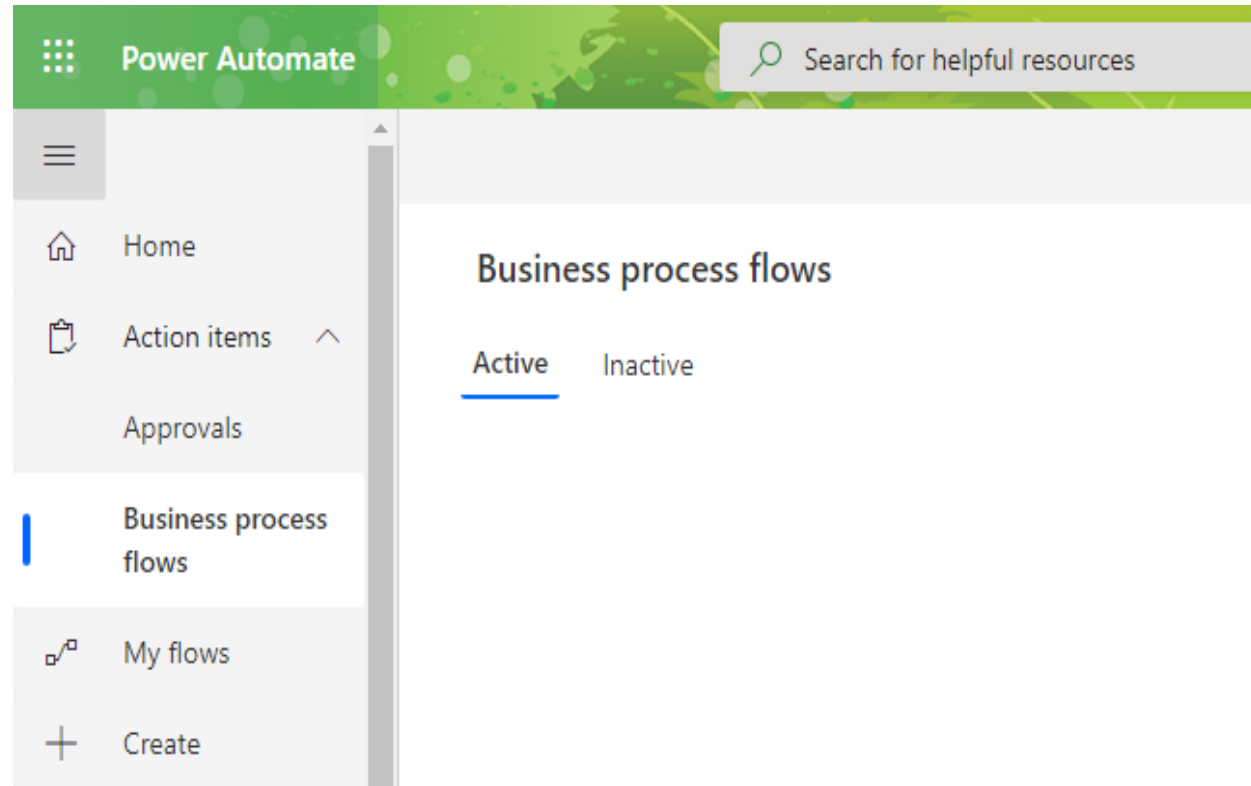
- For a selected item SharePoint
- For a selected item SharePoint
- When a site has requested to join a ... SharePoint
- When a row is selected Common Data Service
- For a selected row Excel Online For Business
- HTTP HTTP
- HTTP Webhook HTTP
- When Power Virtual Agents calls a fl... Power Virtual Agents (V2)
- When an HTTP request is received Request

Power Automate - Business process flows

Business process flows are utilized to make sure that everyone carries out specific tasks with consistent data entry in a similar way. These flows are ideal for streamlining tasks and processes for organizations. It can be further customized to match the security roles assigned to each user. This flow allows to define the right path for various business processes and workflows. With a smartly configured Business Process flow, to guarantee everyone is treating customers processes in the same manner.

We offer consulting services for:

- ✓ Easy business process flows integrated with other customizations
- ✓ Concurrent process flows
- ✓ System business process flows
- ✓ Create custom tables using business process flows
- ✓ Customization support
- ✓ Test business process flows after creating them

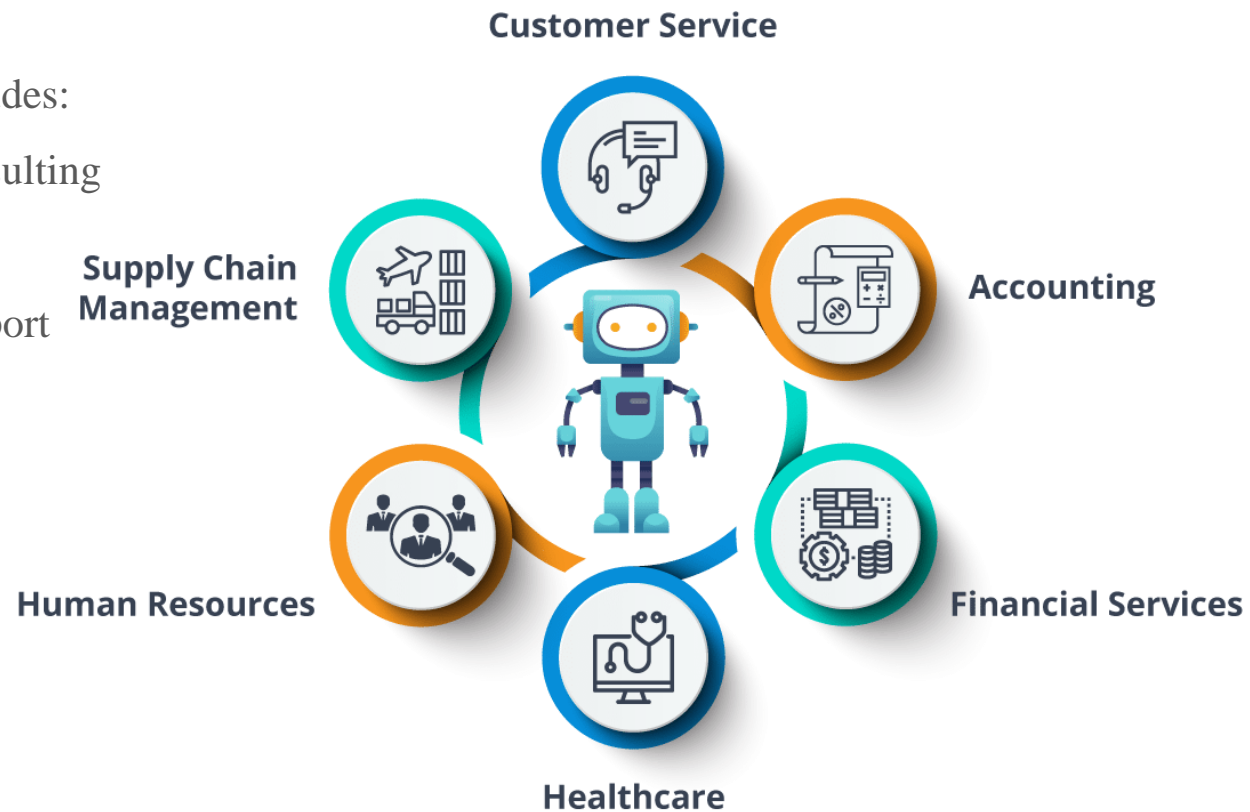


Robotic Process Automation (RPA)

Robotic process automation streamlines workflows to make organizations' work processes more responsive, profitable, and flexible. It helps to increase employee satisfaction, engagement, and productivity by removing routinely tasks from their workdays.

Our consulting services for RPA includes:

- ✓ Robotic Process Automation Consulting
- ✓ RPA Development
- ✓ Infrastructure & Automation Support
- ✓ Automation Design
- ✓ GUI Automation
- ✓ Marketing Automation
- ✓ Customer Support Automation
- ✓ Claim Process Automation
- ✓ Accounts Payable Automation
- ✓ Automation Finder



Attended RPA and Unattended RPA

Attended (human-initiated):

- ✓ Execute the automation when working in front of computer.
- ✓ Automate tasks and processes at an individual level
- ✓ Trigger the automation manually whenever required.
- ✓ Sign-in isn't required because the automation assumes that the system is already signed in.

Unattended RPA

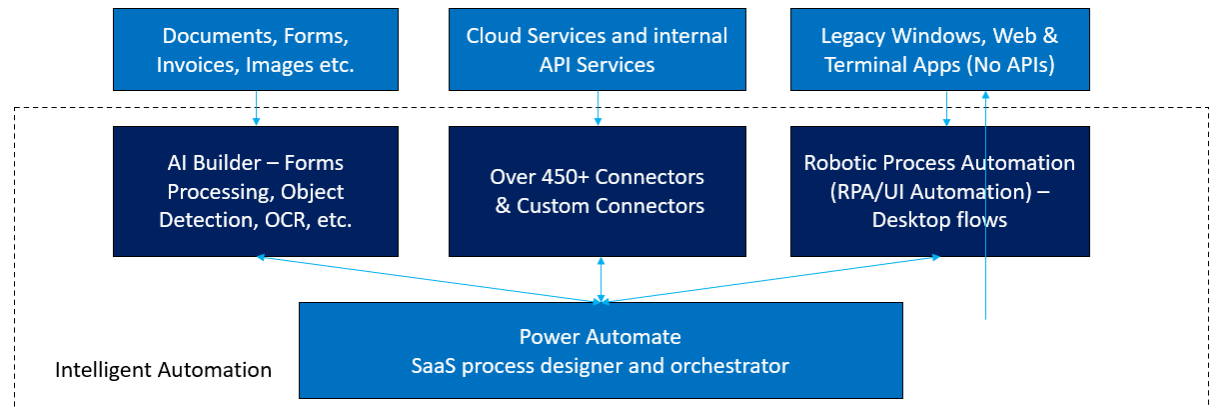
- ✓ Run the automation on behalf of a user on a designated computer or a server.
- ✓ The whole automation process is run fully by Power Automate, and no interaction or decision is made by a human.
- ✓ The automation process can be triggered automatically from another system or service, or on a schedule.
- ✓ Windows Sign-in is automated with predefined user credentials



Solution Architecture

- ✓ Higher efficiency in human actions with RPA tools
- ✓ UI based automation
- ✓ Robotic Process Automation through Desktop flows
 - ✓ Mouse clicks
 - ✓ Keyboard usage
 - ✓ Data entry
 - ✓ Data extraction
 - ✓ Web Automation
 - ✓ Launching browsers

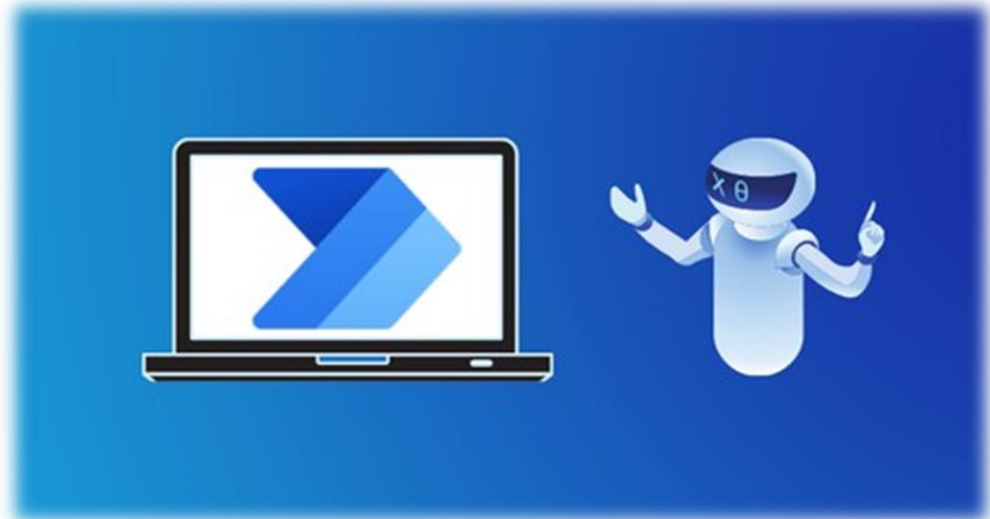
End to End Automation with Power Automate



Power Automate Desktop

RPA USE CASE I

- ✓ Event based automation
- ✓ Automation of Microsoft ERP tools
- ✓ Web page automation – recording clicks, launching web pages, extracting data
- ✓ UI automation – launching window screens, data extraction, recording events, recording clicks
- ✓ Excel automation – Launch new or existing excel files, with read and write capabilities
- ✓ Mouse and keyboard automation – Get mouse position, move the mouse to image or text, etc.
- ✓ AWS and Azure Automation - automate use cases that involve AWS EC2 instances, start EC2 instances, reboot EC2 instances, stop EC2 instances, and more, use Azure to create a session and end a session.
- ✓ Creating Automated reports
- ✓ Verifying forms
- ✓ Managing files
- ✓ Updating data
- ✓ Email automation



RPA USE CASE II



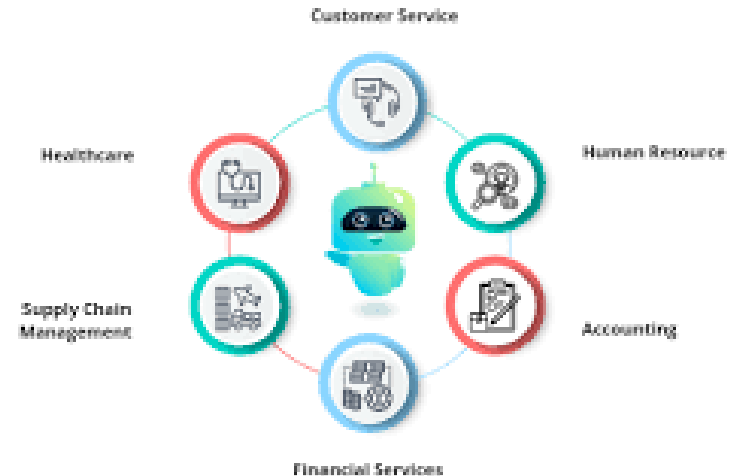
Some important use cases of RPA:

- ✓ Automated customer systems to sort queries and offer instant responses to customers.
- ✓ Automate the data input, reconciliation error
- ✓ Sales Order – automating sales tasks such as sales order entry, invoicing, etc.
- ✓ Payroll – data consistency across multiple systems, load earning, validate timesheets, and deductions
- ✓ Price Comparison – compare prices, product attributes, and quality from several vendors
- ✓ Data categorization – classify different data such as contact information, purchase history, preferences, as well as personal information like birthdays or anniversaries
- ✓ Marketing: Lead Generation – import the data from spreadsheets
- ✓ Invoice processing – formatting the data input, reconciliation errors
- ✓ Processing Refunds Faster - Complaints and return requests are generated and answered on time
- ✓ Adding New Users – An automated system in place for new user account provisions.
- ✓ Data extraction – Data appears in varying formats, ranging from editable, scanned text to handwritten notes are automatically extracted and retrieved to specific categories

RPA USE CASE III

Some more use cases of RPA are as follows:

- ✓ Claims management - automate the claims management through predefined parameters for claims data collection.
- ✓ Patient registration – fill in the details and prepare the patient registration
- ✓ Bills of material – Automate bills of material by data extraction
- ✓ Simple query forwarding - receive emails from users and forward them to concerned department
- ✓ Tool installation: Installing tools to new systems
- ✓ Review applications – reviewing credit card applications, increasing the speed, and response time
- ✓ Prospect sourcing – HR managers to search for the right prospects and candidates based on the parameters set
- ✓ Shipping notifications - Automatically update the shipping progress and provide alert notifications

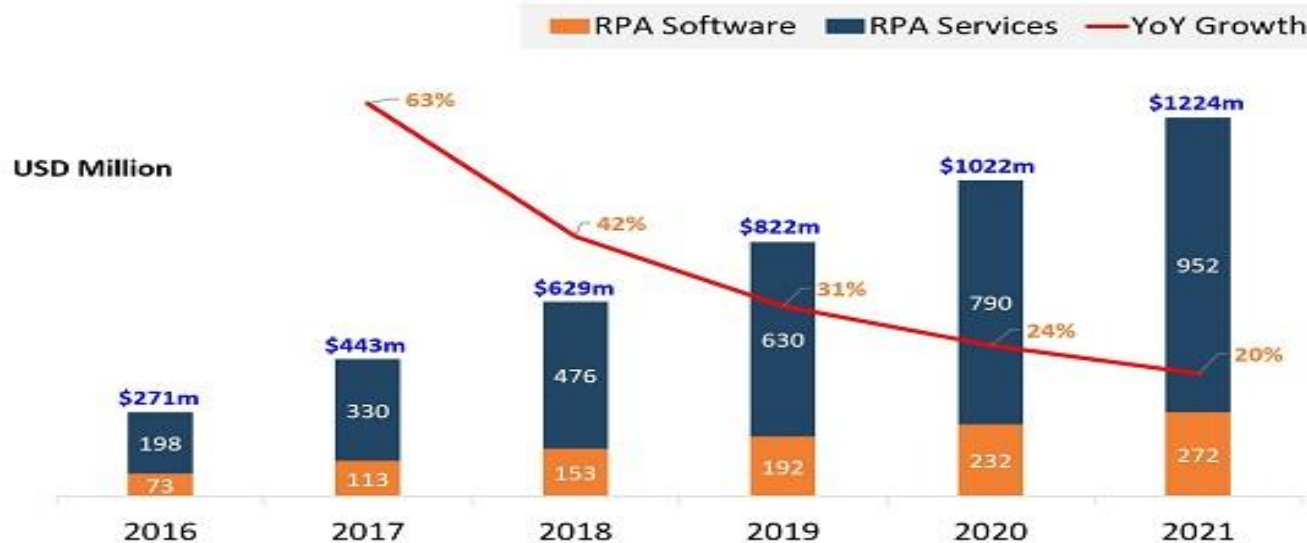


Market size statistics

Robotic Process Automation market is anticipated to reach USD 1224 million **with a CAGR of 13.52%** Billion by 2025.

Source: Globe News wire, <https://www.globenewswire.com>

Global Robotic Process Automation (RPA) Market, 2016-2021

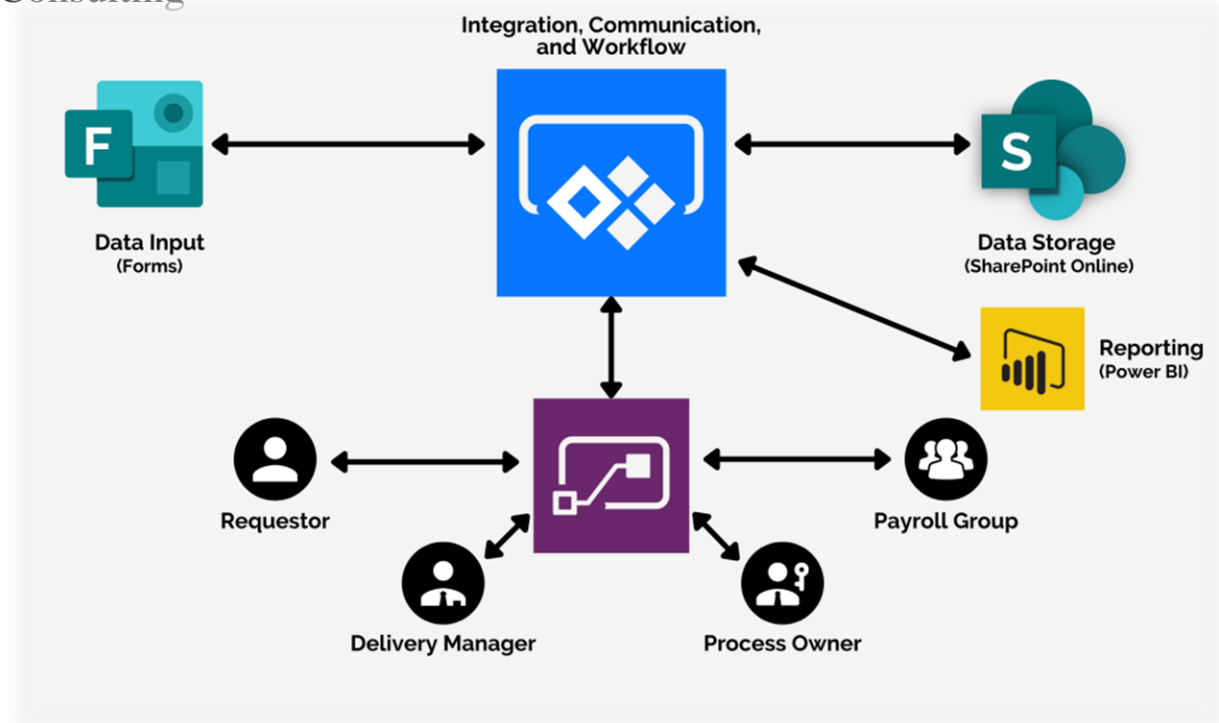


Source: HfS Research 2017

Cognitive Convergence - Power Automate services

Cognitive Convergence offer its professional consulting and support services to its customers for Microsoft Power Automate, a key component of Power Platform, a Microsoft's Business Application. We help organizations in designing and creating new automation flows, alongside troubleshooting and fixing errors presented in existing ones. Our core services include:

- ✓ Automate tasks and business processes
- ✓ Integration with other Microsoft applications or third-party systems
- ✓ Design and build custom solutions using Microsoft Power Automate
- ✓ Power Automate Pay-As-You-Go Consulting
- ✓ Power Automate Support Services
- ✓ Migration from legacy to a modern Flow system
- ✓ Microsoft Power Automate planning and consultation
- ✓ Integration services
- ✓ Working with ready-to-use Flow templates



Current Location: Lahore, Pakistan

Planned Front-end Office: California/Washington States- USA

Our Approach-Software Development Life Cycle-SDLC

Our Software Development Life Cycle is a process used by Cognitive Convergence Team to design, develop, or test high quality software and code in Power App Consulting and Development Services.

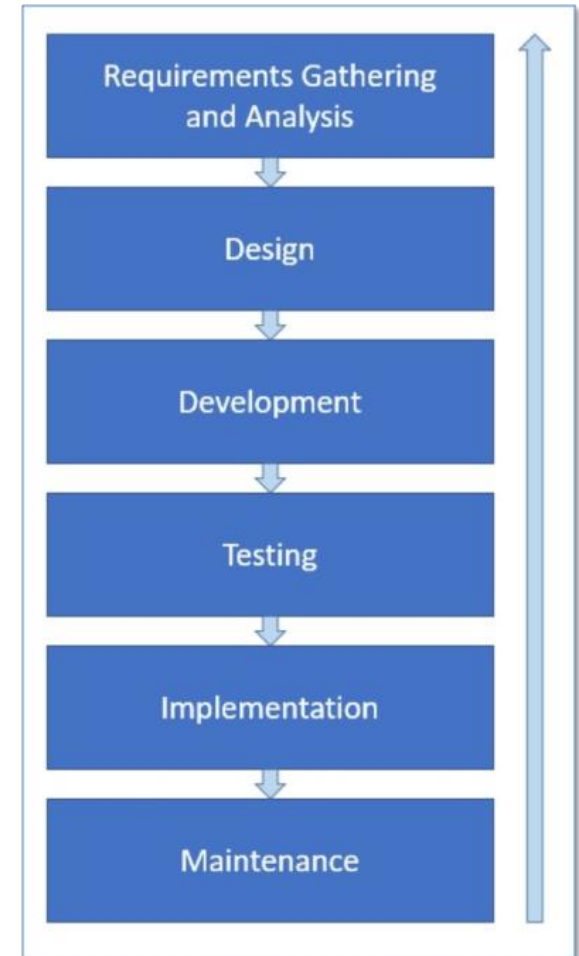
- ✓ A framework with definite tasks to be performed at each step of the software development process.
- ✓ Work as a best practice for developing and implementing quality software and code-based solutions.

Stages of Our Development services:

- ✓ Requirements Gathering and Analysis,
- ✓ Development and planning of designs
- ✓ Implementation and Maintenance of developed designs

Current Location: Lahore, Pakistan

Planned Front-end Office: California/Washington States- USA



Power Automate Consulting services of Cognitive Convergence offers strategic opportunities to clients, investors, and partners that is

- ✓ Unique and industry defining
- ✓ Mutual interest centric business approach
- ✓ Significantly enhance company's footprint
- ✓ Turn grow revenues by entering new and exciting **Technology Domains, App development ideas, Solution Development, and Joint venture projects**
- ✓ 1st mover advantage with
 - ✓ Talent: 100%
 - ✓ Timing: 100%
 - ✓ Technology: 100%
 - ✓ Technique: 100%



THANK YOU

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For questions or queries, contact us, we will be sure to get back to you as soon as possible.