

# CSP Masters Program in person series

## Technical training



**Power BI**

Business analytics



**Power Apps**

Application development



**Power Pages**

External websites



**Power Automate**

Process automation



**Power Virtual Agents**

Intelligent bots



**Data  
connectors**



**AI  
Builder**



**Microsoft  
Dataverse**



**Power  
Fx**



**Managed  
Environments**

A photograph of the interior of Grand Central Terminal in New York City. The image shows the iconic vaulted ceiling with its large, ornate windows and the high ceilings supported by massive columns. An American flag is visible on the left. The floor is a polished, light-colored stone. In the center, there is a circular information kiosk. The lower half of the image is filled with a large number of people, many of whom are blurred, suggesting a long exposure or a fast-moving crowd. A large, black, diagonal banner with a white border is superimposed over the center of the image, containing the text "Consider this" in a white, cursive font.

*Consider this*



# Microsoft Power Platform

The low-code platform that spans Office 365, Azure, Dynamics 365, and standalone applications



**Power BI**  
Business analytics



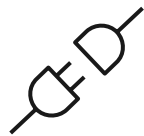
**Power Apps**  
Application development



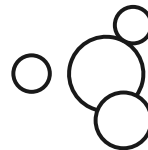
**Power Automate**  
Process automation



**Power Virtual Agents**  
Intelligent virtual agents



**Data connectors**



**AI Builder**



**Dataverse**

Microsoft Power Automate helps you **work smarter** by automating workflows across your apps and services



Get notifications



Synchronize files

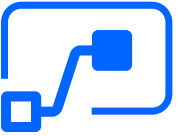


Collect data



Automate approvals

# Automate and integrate business processes with Power Automate

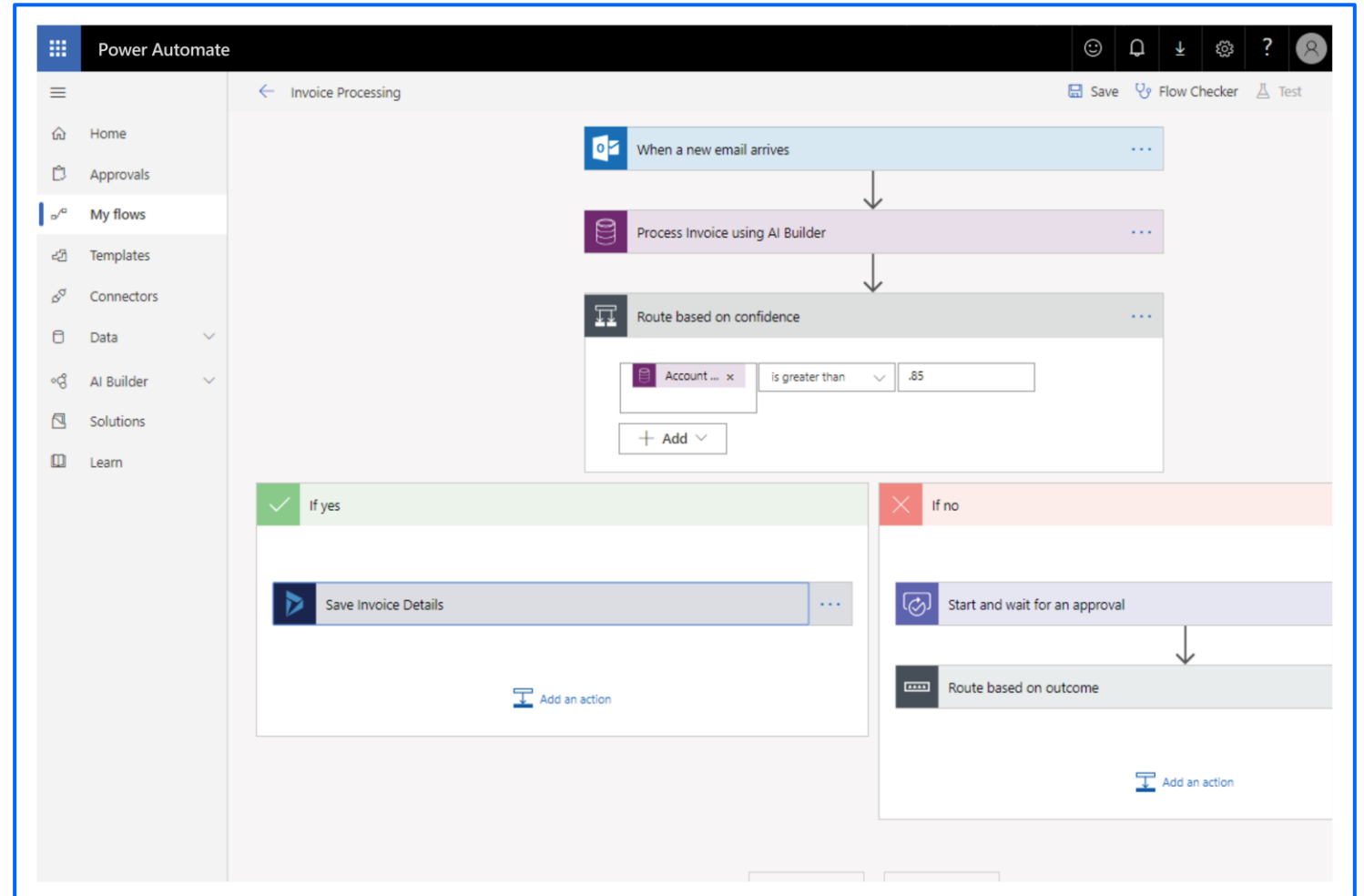


Automate and model business processes across your apps and services

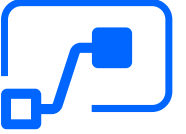
From simple automations to advanced scenarios with branches, loops, and more

Trigger actions, grant approvals, and get notifications right where you work

Automate legacy, on-prem and cloud-based applications and services



# The value Power Automate brings



## Common scenarios and capabilities:

Automating repetitive tasks

Guiding a user through a process

Connecting to external data sources

Automating desktop-based processes

The screenshot displays the Power Automate interface with a flow containing two steps:

- Step 1: Get manager (V2)**
  - Icon: PowerApps
  - Field: \* User (UPN) with a value of "Getmanager(V..." and a close button.
  - Link: "Show advanced options" with a downward arrow.
- Step 2: Start and wait for an approval**
  - Icon: Approval
  - Field: \* Approval type with a dropdown menu set to "Approve/Reject - First to respond".
  - Field: \* Title with the text "Please approve the Purchase Order".
  - Field: \* Assigned to with a dropdown menu set to "Mail" and a close button.
  - Field: Details with the text "Markdown supported (see <https://aka.ms/approvaldetails>)".
  - Field: Item link with the text "Add a link to the item to approve".
  - Field: Item link description with the text "Describe the link to the item".
  - Link: "Show advanced options" with a downward arrow.

Arrows indicate the flow from the first step to the second step.

# Scale automation efficiently



## **Pre-built templates:**

Build automated workflows using prebuilt templates and tailored automations

## **Automate across your favorite apps and services**

**(300+ connectors):**

Scale to automate across your favorite apps and services

## **Integrates with the Microsoft ecosystem:**

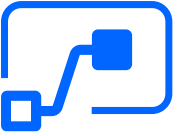
Integrate with Azure, Microsoft 365, and Dynamics 365

## **On-premises and in the cloud:**

Access and integrate data across on-premises software and cloud services



# Add artificial intelligence to your flow without writing code



To take advantage of these AI capabilities you must first build a model. From [make.PowerApps.com](https://make.powerapps.com) a wizard guides you through building and training the model. Currently, there are four available AI models available to build:

## Form processor:

This model extracts text from an uploaded image or taken photo

## Object detector:

This model identifies objects from an uploaded image or taken photo and then provides a count of the number objects present

## Prediction:

This model predicts whether something will happen or not based on previous data history. More details in the following section





































## Text classification:

This model categorizes text by its meaning, making it is easier to analyze

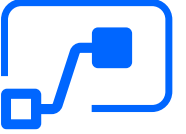
Get started quickly  
with over a  
hundred useful  
templates

Flow Preview My flows Browse Learn Search templates...

Showing All flows sorted by Popularity

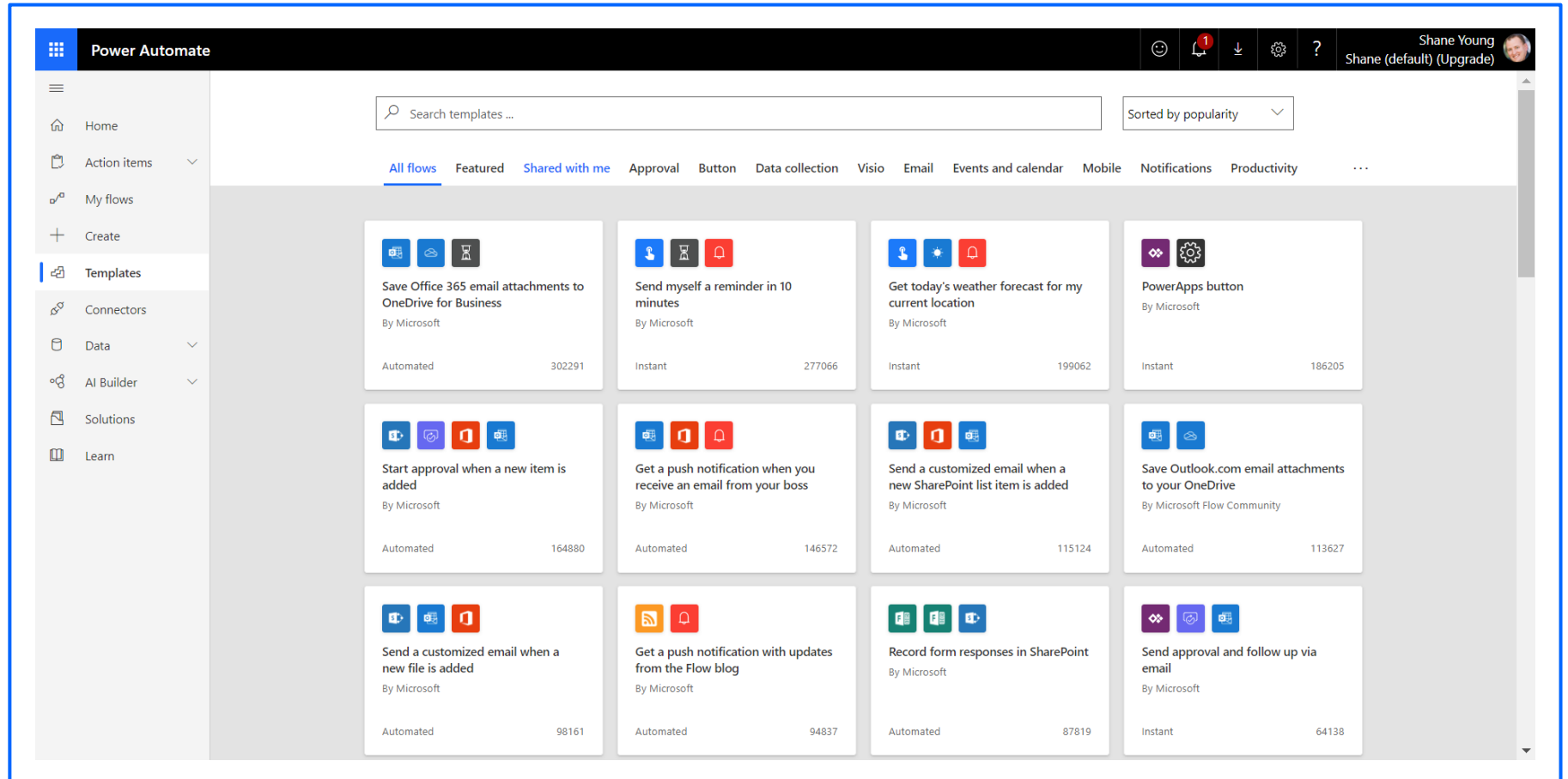
 Create a to-do item in Wunderlist for important emails  By Microsoft Used 254 times	 Save my email attachments to a SharePoint document library  By Microsoft Used 195 times	 Get daily reminders in Email   By Microsoft Used 103 times	 Save tweets to a CSV file in OneDrive  By Microsoft Used 99 times
 Translate non-English emails    By Microsoft Used 56 times	 Save email attachments to Dropbox  By Microsoft Used 55 times	 Send me an email when a new file is added in SharePoint Online   By Microsoft Used 54 times	 Get a text notification when you receive an email from your manager   By Microsoft Used 53 times
 Copy new files in Dropbox to a specific folder on OneDrive  By Microsoft Used 51 times	 Email yourself new Tweets about a certain keyword    By Microsoft Used 40 times	 Save tweets to a CSV file in Dropbox  By Microsoft Used 33 times	 Copy files between OneDrive and Dropbox  By Microsoft Used 32 times
 Send me an email when a new item is added to a SharePoint Online list 	 Post to Yammer if new tweets match with hashtag	 Get Office 365 email notifications forwarded to Slack channel	 Share my Tweets on Facebook

# Create a flow from a template



Search using keywords for relevant templates

Example template:  
Create a flow to save email attachments to OneDrive for Business



# Important concepts in Microsoft Power Automate



**Keep these concepts in mind when building flows:**

Every flow has two main parts:

- a trigger
- one or more actions

Think of the trigger as the starting action for the flow

Actions are what you want to happen when a trigger is invoked.

**Some examples of types of actions you can have in a flow include:**

Loops

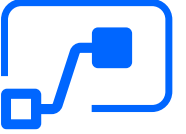
Switch

Do Until

Apply to each

Expressions

# Trigger or run the flow



With Power Automate, you don't think of running a flow the same way as you do with Power Apps. Instead, you perform the activity that triggers the flow to run.

## When defining triggers, there are a few different types:

### When something changes:

These are triggers that run when data is changed. It could be a new item created in SharePoint, a lead is updated in Dynamics, or when an event has been deleted from Outlook for example

### On a schedule:

You can set up a flow to be triggered at a certain time of a day and with a recurrence. This allows for workflows such as checking every day at 8 AM if there are account renewals pending and if so, sending an email to the necessary people

### On a button press:

This trigger takes shape in many different ways. This can be when a flow virtual button is run through the mobile app, or a physical button is clicked with 3<sup>rd</sup> party options, or even when a button is pressed inside of Power Apps. This gives you that control to "run" a flow on-demand

- Home
- Action items
- My flows
- Create
- Templates
- Connectors
- Data
- Monitor
- AI Builder
- Process advisor (preview)
- Solutions
- Learn

# Take care of what's important. Automate the rest.

Create automated workflows with Microsoft Power Automate.

[Watch a quick video](#)

Search for a template by app, task, or industry

## Start from a template

Search all templates

- Top picks
- Remote work
- Email
- Notifications
- Save to cloud
- Approval

Follow up on a message

By Microsoft

Instant

10062

Save a message to OneNote

By Microsoft

Instant

9173

Schedule a meeting with a message sender

By Microsoft

Instant

8207

Start an approval in Teams when a file is added to a SharePoint folder

By Microsoft

Automated

5133



*DEMO*

# Build your own flows in an easy to use visual designer

Sending an Exchange email when a new file is added in Dropbox

Authenticate to your Dropbox account.

Select folder to monitor

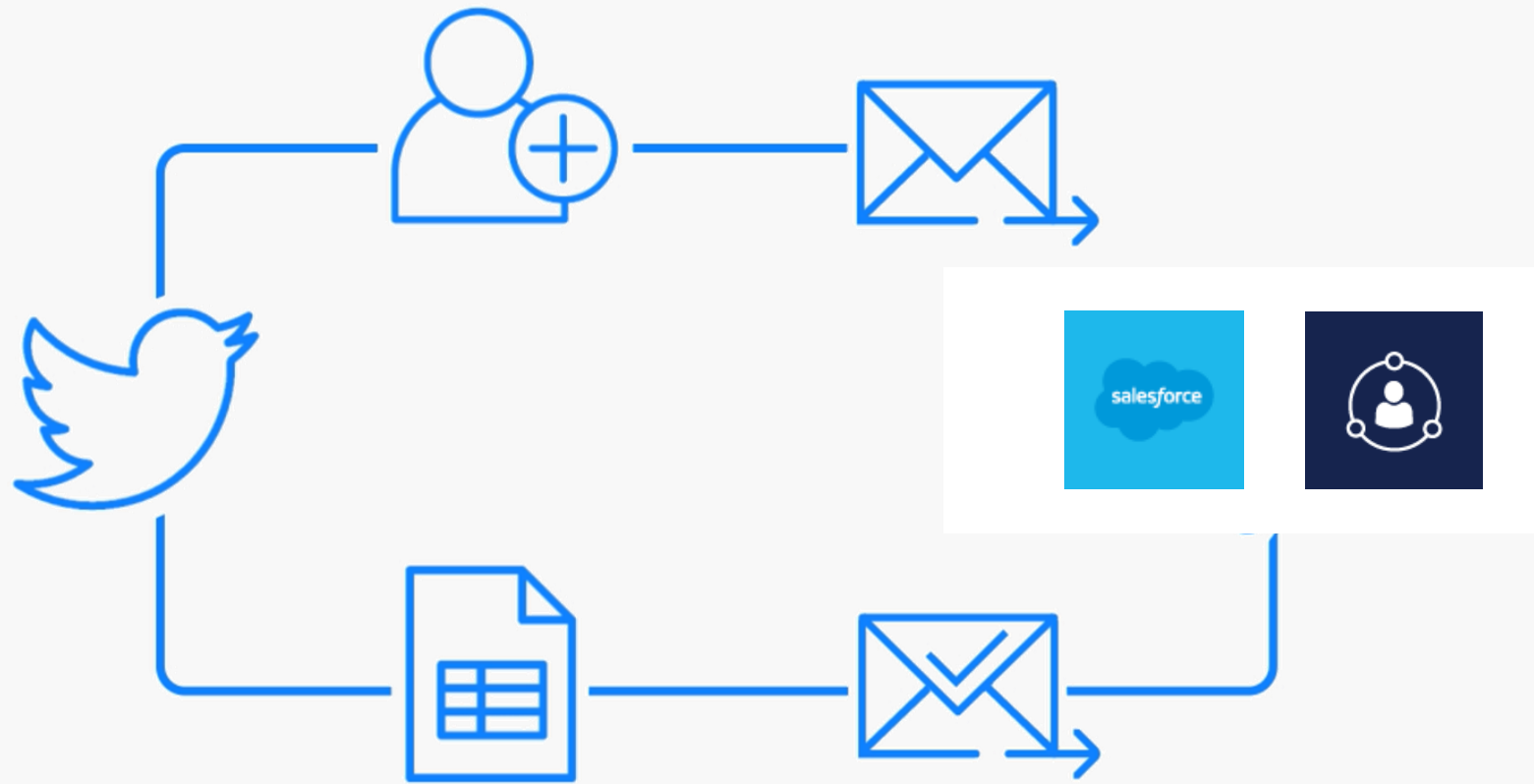
Authenticate to your O365 account.

Build email *Subject* and *Body*

The screenshot displays the Microsoft Flow visual designer interface. The top step is 'When a file is created' with a blue header. It includes a 'Folder\*' field set to 'PowerApps' and a status bar indicating it is 'Connected to johnsharp@hotmail.com' with a 'Change connection.' link. A dropdown menu is open, showing 'Dropbox / Dropbox' and a folder named 'PowerApps' with a 'Choose' button. The second step is 'Send Email' with an orange header. The 'Subject\*' field contains the text 'New file: [File name] has been added to your Dropbox'. The 'Body\*' field contains 'New information available'. Below this, a section titled 'You can insert data from previous steps...' shows 'Outputs from When a file is created' with buttons for 'File content', 'File identifier', 'File name', 'File path', 'File entity tag', and 'File content type'. The 'To\*' field is empty. The status bar at the bottom shows 'Connected to johnsharp@contoso.com' with a 'Change connection.' link.

Choose to include properties from previous step (Dropbox file) to improve relevance

Specify *Send To* email address and additional properties (optional): *From*, *CC*, *BCC* and *Importance*



Automate advanced scenarios with multiple steps,  
branching conditions, and more

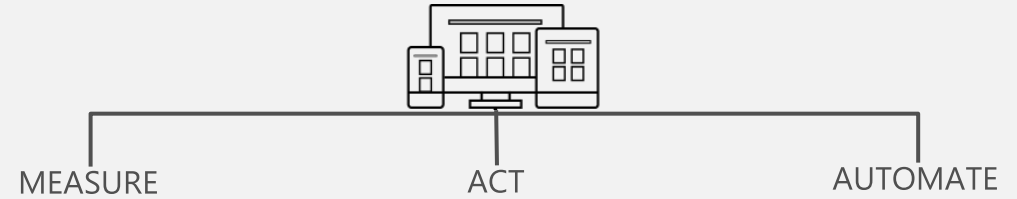


Integrate the systems  
you're already using...  
even custom APIs.

# Business application platform innovation

## Build modern business apps fast

Compose analytics, user experiences, and automation using an integrated set of services from Microsoft



## Empowered power users

People who understand their business needs best can now build apps quickly without writing code



Power BI



PowerApps



Microsoft Flow

## More efficient developers

Seamlessly extend capabilities for power users and leverage powerful Azure platform services

SQL Server BI  
Data analytics  
Internet of Things (IoT)  
...

App Services  
Service Fabric  
Azure Functions  
...

Logic Apps  
API Management  
BizTalk  
...

## Connected data across apps

Whether built on the Common Data Model or integrated with existing systems, get more value from your data



Common Data Model



Connectors & Gateways

*DEMO*



# On premises data gateway

- Install from PowerApps Portal
- Manage on the gateway
- Upgrades and replaces PowerBI gateway (if present)
- Sign in to register
- Build connections
- Consume from your business apps

Power Apps and Flow

On premises data gateway

SharePoint  
2013/2016

SQL Server

# Microsoft Flow Sharing and Collaboration

## Co-authoring

Many authors can edit a flow, not just a single owner

If the original author leaves the company the flow continues to function

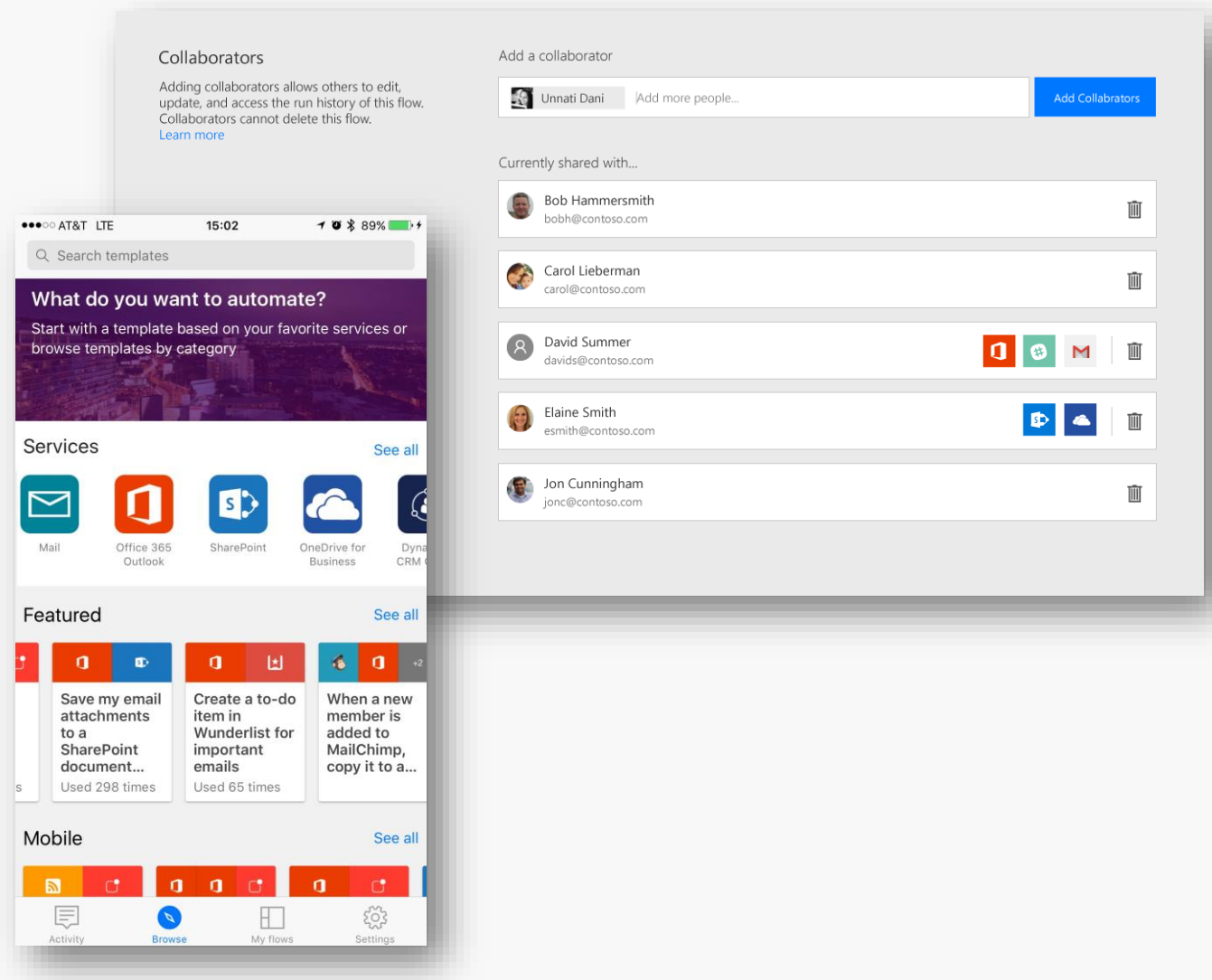
## Publish to AppSource

Make flows available to others inside of an organization for consumption

## Creation from Mobile

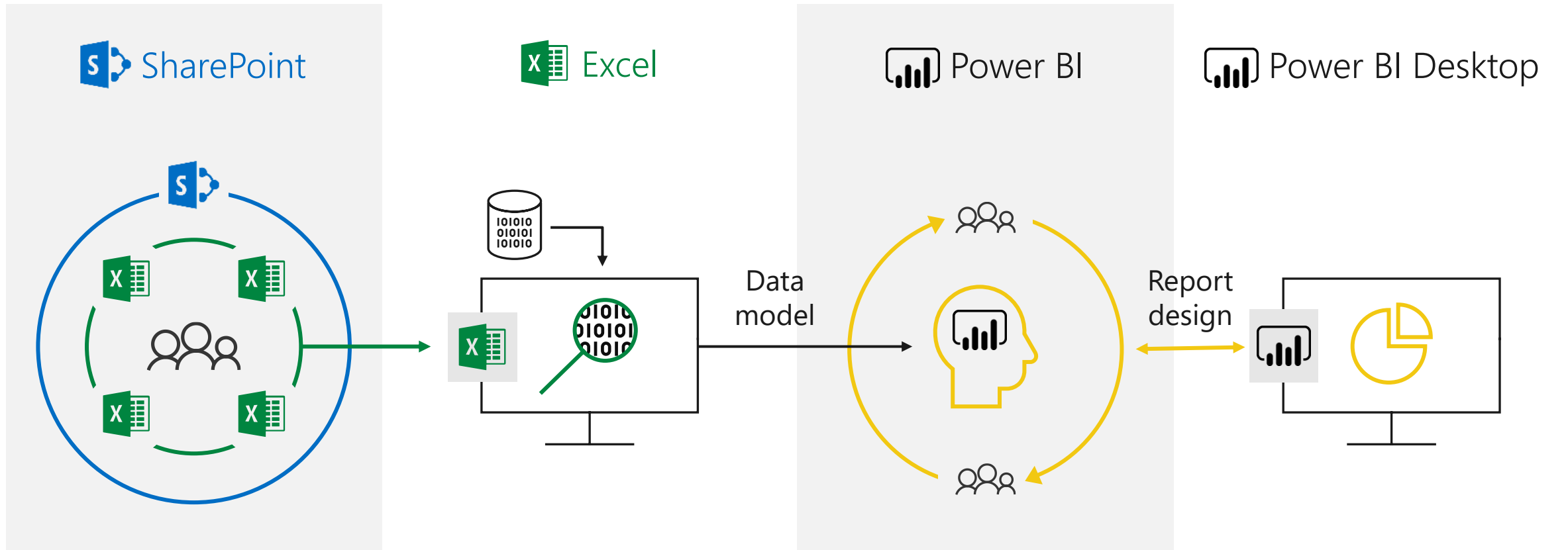
Develop and co-author on flows right from the Microsoft Flow app for iOS or Android

## Enhanced Flow mobile integration



# One cloud platform for data visualization

## Power Query & Power Pivot



# Take aways

- Power Automate allows you to easy connect many data sources
- Power Automate allows you to easy automate business processes
- Combine power Automate with Power Apps to deliver quick solutions
- Power Automate can be utilised with on premises resources
- Power Automate is continually improving
- Power Automate enables 'citizen developers'

# Resources

- Microsoft Power Apps and Power Automate Licensing Guide - <https://go.microsoft.com/fwlink/?linkid=2085130>
- Azure logic apps - <https://azure.microsoft.com/en-us/services/logic-apps/>
- Power Apps and Power Automate licensing FAQ - <https://docs.microsoft.com/en-us/power-platform/admin/powerapps-flow-licensing-faq>
- Automate a business process using Power Automate - <https://docs.microsoft.com/en-us/learn/paths/automate-process-power-automate/>
- Templates - <https://flow.microsoft.com/en-us/templates/>
- Get started with Power Automate - <https://docs.microsoft.com/en-us/learn/modules/get-started-flows/>
- On premises gateway - <https://go.microsoft.com/fwlink/?LinkID=820931>