



App in a Day

Microsoft Power Platform

Power Apps

Power Automate

Microsoft Dataverse

Introduction

Microsoft Business Applications



miso



Microsoft®
Most Valuable
Professional

About me

Boonthawee Tangsoonthornthum (Thor)

Solutions Lead at MISO Digital
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Microsoft Certified Trainer

Microsoft 365 Certified: Enterprise Administrator Expert

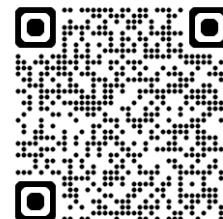
Microsoft 365 Certified: Security Administrator Associate

Microsoft Certified: Power Platform Functional Consultant

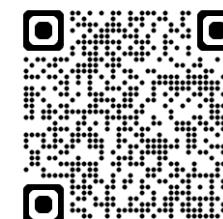
Microsoft Certified: Azure Fundamentals



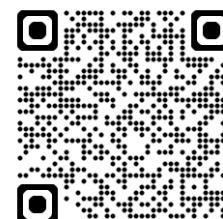
Power Apps Guru
THAILAND



mvp skill
change the world by contributions



YouTube



facebook

Business and IT challenges



Budget constraints



Time and resource constraints



Rising customer expectations



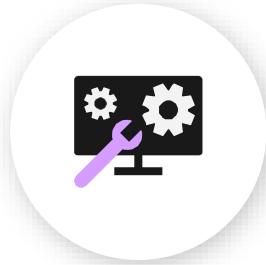
Paper processes



New digital business models



IT/business partnership



Limited agility



Need for differentiation



Technical skills shortages



Security and compliance risks

Power Apps drives business transformation

Reduce development costs and increase overall productivity

188%

ROI over three years

74%

Reduction in app development costs
over traditional coding services

3.2 hrs

Line-of-business employee
productivity improvement per week

Results are for a composite organization based on interviewed customers. The Total Economic Impact of Power Apps commissioned study conducted by Forrester Consulting, March 2020.

And traditional application development is not an option

500 million
new apps will be built
in the next 5 years –
more than all apps
built in the last 40
years*



Tech
talent limitations



Ground up software
development takes time



Surging digital
demand



Security and
compliance Risks

The need for resilience has never been clearer, but there are simply not enough developers to meet the growing need for digital transformation.

*Microsoft research

Low Code Application Development

Using the right tool for the job



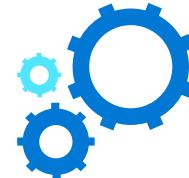
Meet business demand faster

Accelerate frontends and business process development



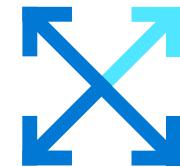
Reduce your costs

Get 74% reduction in app development costs



Seamless app development

Improve security posture and manage application lifecycle seamlessly

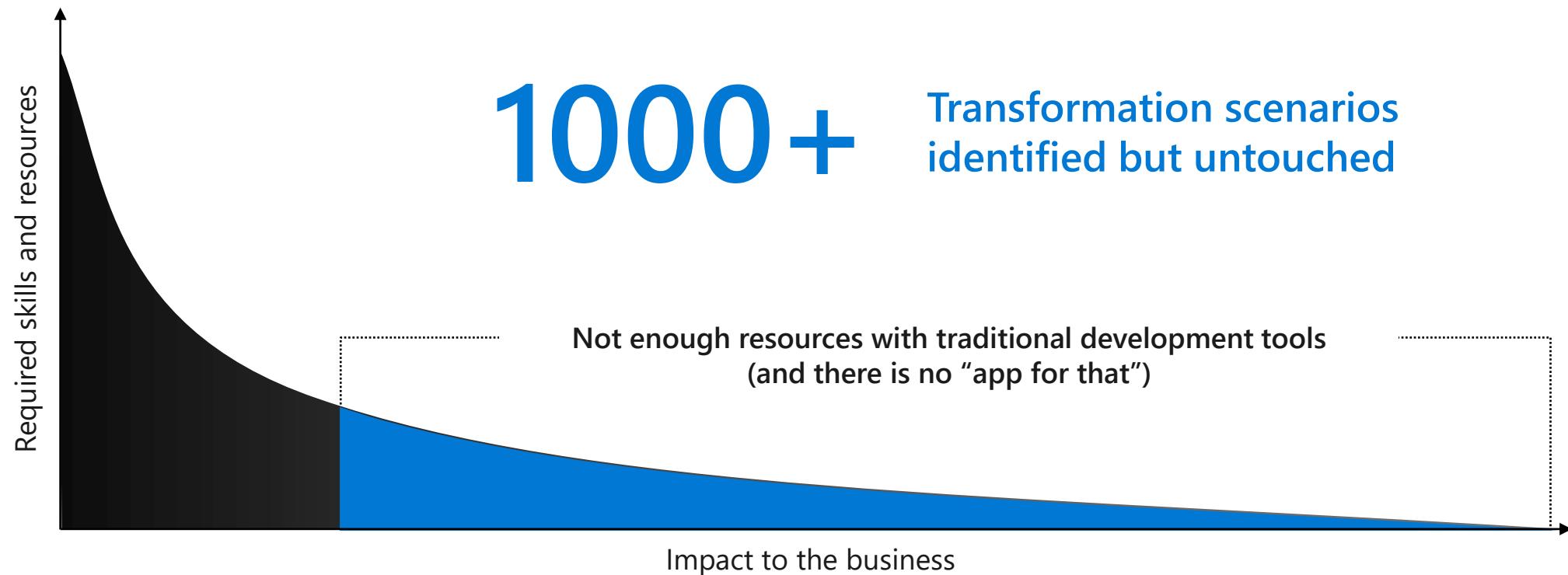


Effortless integration and extensibility

Extend apps with the ultimate flexibility powered by best-in-class Azure services

Power Apps provides a low-code approach to rapidly build apps for any device, while seamlessly working with your Azure-based services through a rich professional developer extensibility model.

Low code development can address these challenges



Collaborate **across**
business users,
developers and IT to
create digital solutions



Power BI

Business analytics



Power Apps

Application development



Power Automate

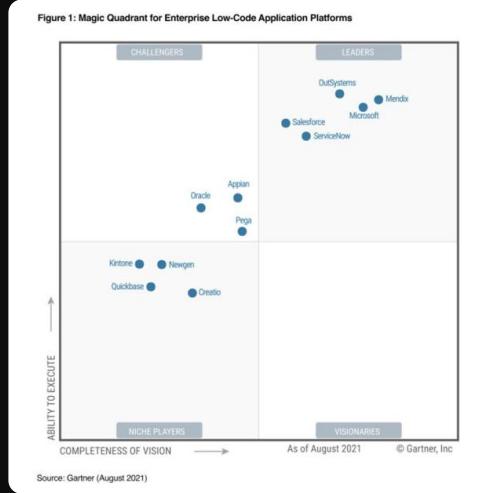
Workflow automation



Copilot Studio

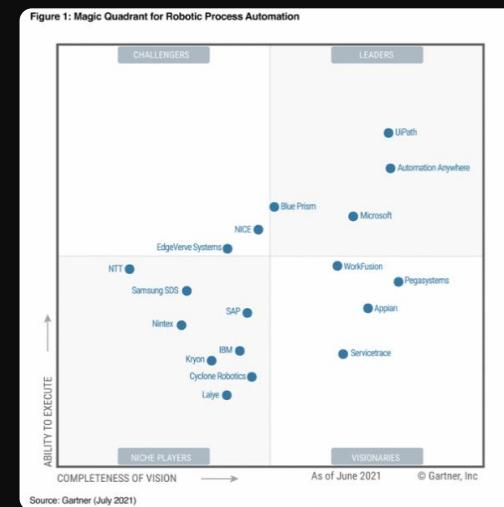
Intelligent Copilots

Best innovation platform to create value for our customers



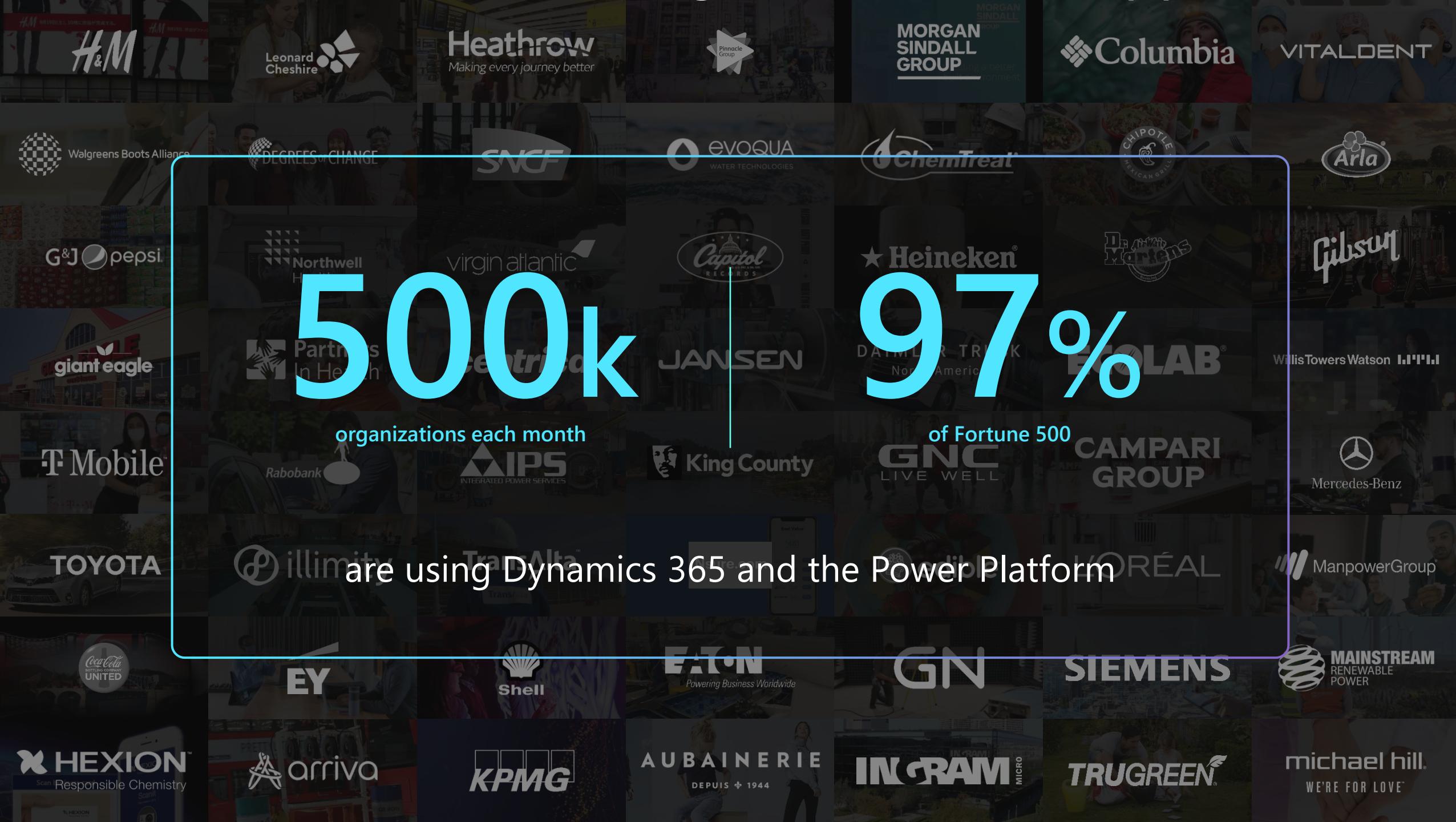
#1

adopted low-code platform



+50% CIOs

would select Microsoft as their enterprise automation platform, more than any other vendor



500k

organizations each month

97%

of Fortune 500

are using Dynamics 365 and the Power Platform

Power Platform: the world's most complete low-code platform



Build business apps faster, easier

Empower everyone to create impactful business solutions in hours - not months – with familiar tools.



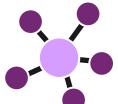
Take your apps to the next level

Enable citizen developers to work directly with pro developers for even more advanced solutions.



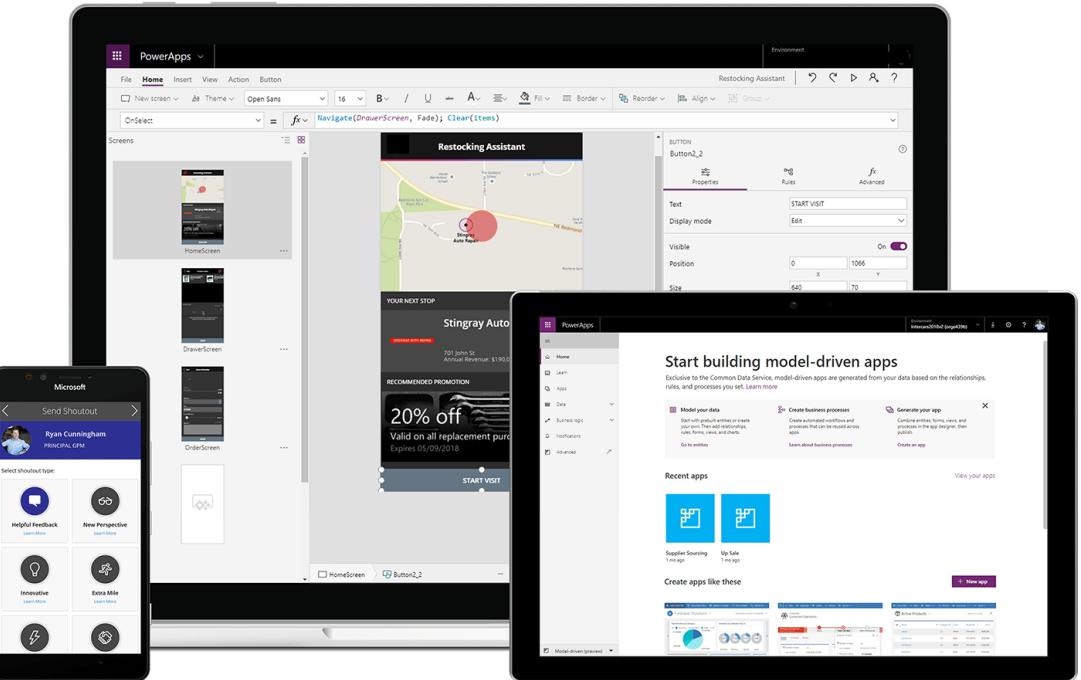
Scale with confidence

Build solutions at scale while maintaining governance, security and quality standards.



One platform, unlimited innovation

Shift your low-code apps into high gear continuously with advanced AI, analytics, bots, interactive maps, external portals, mixed reality, IoT and more.



Build business apps faster, easier

Empower everyone to build apps in hours—not months—with familiar Microsoft tools



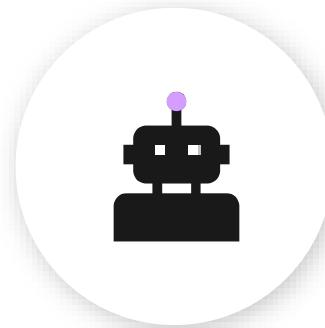
Get started quickly

Build and launch apps right away using pre-built templates and drag-and-drop simplicity. Launch apps with one click and deploy across iOS, Android, Windows, and Web



Build the right app for the job

Optimize for specific tasks and roles. Or start from a common business scenario template. Build for any device and leverage controls like cameras and location



Automate business processes

Build time-saving workflows into everything from individual tasks to large-scale systems and put intelligent solutions to work with built-in AI capabilities



Build business apps
faster, easier



Take your apps to
the next level



Scale with confidence



One platform,
unlimited innovation

Take your apps to the next level

Enable citizen developers to work directly with pro developers for more advanced solutions



Build with, not for, business

Bring business and IT build together on the same platform so users can contribute directly to apps, input requirements in real time, and fine tune to meet changing needs



Tailor with custom components

Empower your pro devs to add custom code to your low code projects to extend capabilities and create reusable components for use by pro and citizen developers



Ramp up for 1000s of apps

Leverage powerful build tools to automate processes and testing for perfect, low-code apps – whether your organization plans to build one or one thousand



Build business apps
faster, easier



Take your apps to
the next level



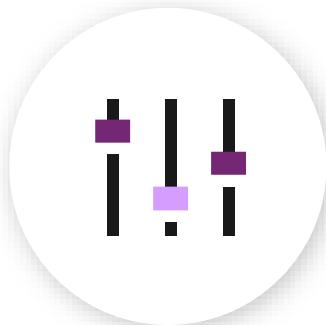
Scale with confidence



One platform,
unlimited innovation

Scale with confidence

Drive innovation at scale while maintaining governance, security and quality



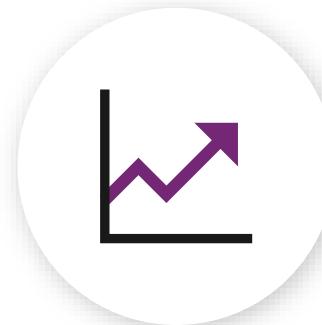
Quality control

A full view of your apps, usage and creators eliminates Shadow IT. Maintain standards and drive best practices with the Center of Excellence toolkit



No compromise protection

Built-in capabilities enable you to control who can access which apps and data using built-in identity protection and DLP policies. Meet compliance with more than 90 certifications



Enterprise-grade performance

Built on Azure with massive scale, 100+ data centers worldwide and a 99.9% financially backed uptime guarantee



Build business apps
faster, easier



Take your apps to
the next level



Scale with confidence



One platform,
unlimited innovation

One platform, unlimited innovation

Solve your business problems quickly with a comprehensive set of boundary pushing capabilities.



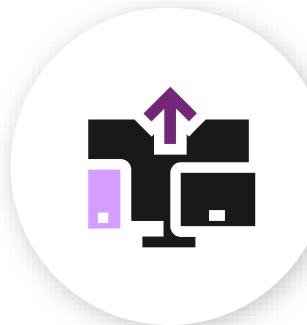
Leverage artificial intelligence

Outpace competitors by infusing your process automation with AI. Or easily build your own AI models for solutions like image classification and language translation.



Snap in advanced automation

Leverage pre-built components to automate services and business processes. Link apps to the real world through interactive maps and mixed reality. Develop IoT solutions for operational efficiencies.



Share data externally

Create no-code websites with Power Apps Portals to allow anyone inside or outside your organization to sign in, create and view data securely, or browse content anonymously.



Build business apps
faster, easier



Take your apps to
the next level



Scale with confidence



One platform,
unlimited innovation

Innovate at the speed of your creativity

With a comprehensive set of multi-experience app capabilities



Power Apps

Physical and digital world



IoT Edge



IoT Hub



Mixed reality



Geospatial

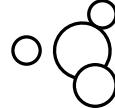


Mapping



HoloLens

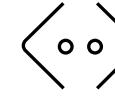
Artificial Intelligence solutions



AI builder



Azure cognitive services



Robotic Process Automation



Power Virtual Agents



Power BI

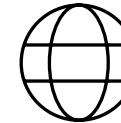
Innovative Integrations



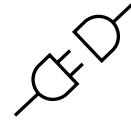
GitHub



Teams



Portals



350+ connectors



API management



Build business apps
faster, easier



Take your apps to
the next level



Scale with confidence



One platform,
unlimited innovation

Recognized by analysts, trusted by business



Education



American
Red Cross

Non-profit



Healthcare



Energy



Transportation



Public sector



Retail



Banking



Media &
comms



Manufacturing

Gartner positioned Microsoft as a Leader in low-code application development platforms for Power Apps based on its ability to execute and completeness of vision.
Forrester ranked Power Apps as a leader, demonstrating a strong strategy.

Power Platform Press Momentum FY22-Q3



Analyst Recognition FY22 Q3

Gartner®



A Magic Quadrant™ Leader for Analytics and Business Intelligence Platforms

By Austin Kronz, Kurt Schlegel, Julian Sun, David Pidsley, Anirudh Ganeshan, March 2022

The research asserts that spending on the ABI platform market "is growing more slowly" while "the number people using ABI platforms is accelerating massively" influenced by the pandemic and accessible pricing. Cloud data and analytics ecosystems and major cloud vendors influence the market creating "inevitable concerns about lock-in and unforeseen costs" on one hand and drive "openness in their software stacks and the growing importance of multicloud" on the other. Gartner notes the market continues to evolve with augmented analytics capabilities "putting the ABI and data science and ML platform markets on a collision course".

These graphics were published by Gartner, Inc. as part of a larger research document and should be evaluated in the context of the entire document. The Gartner documents are available upon request from Microsoft:

- Gartner Magic Quadrant for Analytics and Business Intelligence ([LINK](#))

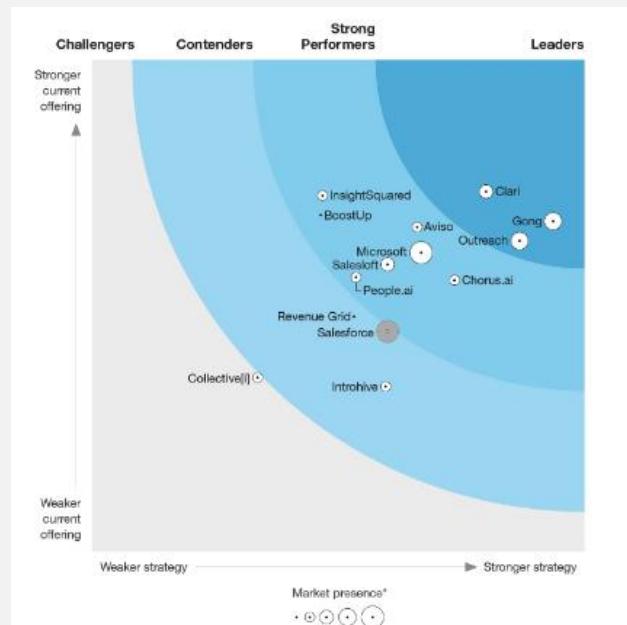
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Analyst Recognition FY22 Q3



Microsoft named a Leader in the IDC MarketScape: Worldwide Retail and CPG Customer Data Platform Software Providers

By Ornella Urso, Filippo Battaini, Giulio Raffaele, April 2022



The Forrester Wave™: Revenue Operations and Intelligence, Q1 2022

By Anthony McPartlin, Seth Marrs
March 2022

Microsoft impressed with the range of guidance and notifications to prioritize seller action, while their forecasting module now has significant flexibility for configuration to support different organizational structures and business models. Interpretability of the various AI scoring models and probabilities is standout while the user interface and overall integration is seamless. Although more sophisticated insights are dependent on PowerBI, a set amount are embedded at no extra cost. The product has clearly evolved, reference customer feedback suggests that customer success is at times a source of client frustration. Microsoft best suits larger enterprises with long-cycle sales processes that already leverage the Microsoft platform and business application stack.

IDC, IDC MarketScape: Worldwide Retail and CPG Customer Data Platform Software Providers, doc #US47506221, April 2022

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Power Platform Enables Digital Transformation



Modern workplace

Business applications

Applications & infrastructure

Data & AI



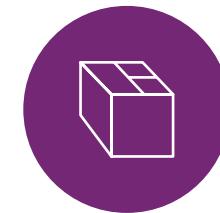
Empower
employees



Engage
customers



Optimize
operations



Transform
products

Microsoft Power Platform

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

Dynamics 365



Office 365



Azure



Your business apps & data



Power BI
Business analytics



Power Apps
Application development



Power Automate
Workflow automation



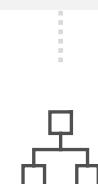
Copilot Studio
Intelligent Copilots



Power Pages
Build websites



Dataverse



Data connectors



AI Builder

Microsoft Power Platform

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

Dynamics 365



Office 365



Azure



Your business apps & data



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Intelligent Copilots



Power Pages
Build websites



Dataverse



Data connectors

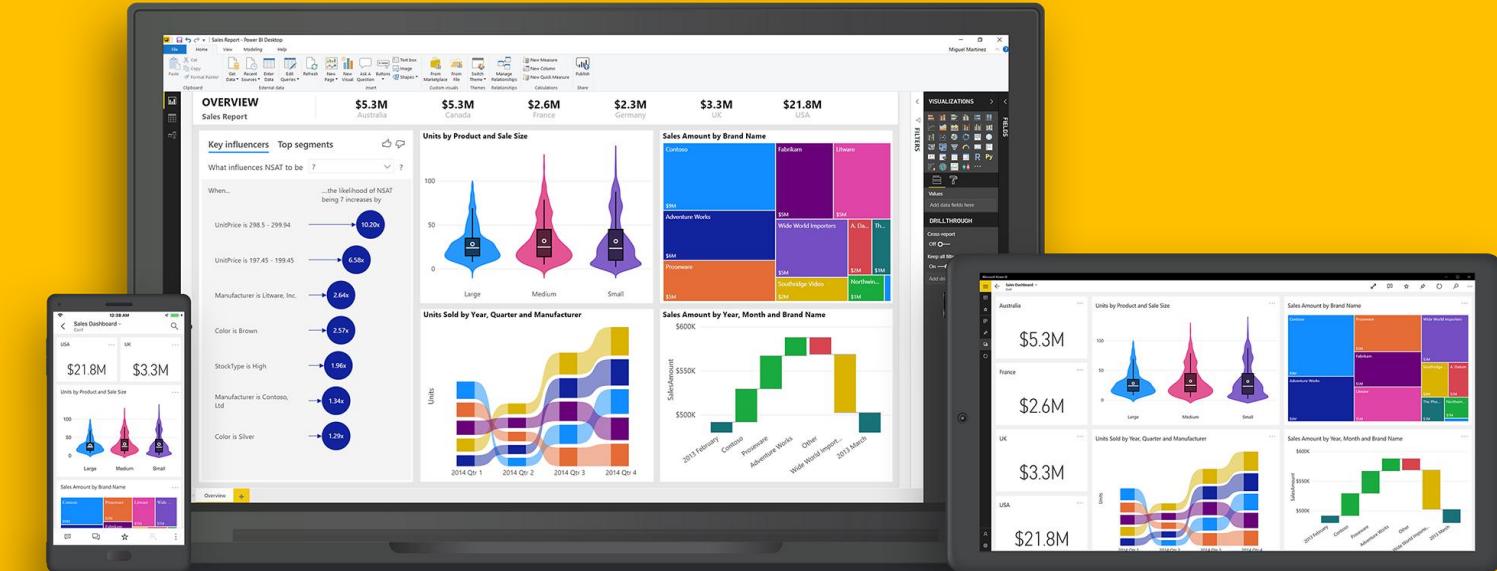


AI Builder

Experience your data with Power BI



- Make sense of your data with ease, and drive quick and confident decisions across your organization
- Reduce the amount of time spent in data prep and spend more time getting answers with AI-driven insights
- Remove the complexity of managing multiple analytics solutions with a single, unified platform that gives every employee access to insights





Anatomy of a dashboard

Any data

Connect to any data source to find the best insights and answer tough business questions.

Share insights with anyone

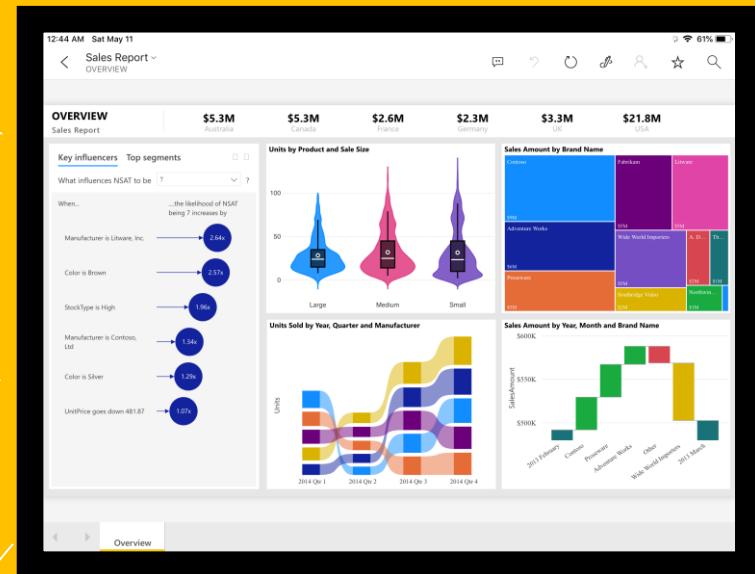
Share on prem, in the cloud, and mobile devices; even with those outside your organization

Seamless integrations

Directly integrated with Power Automate, Power Apps, Microsoft Teams, Office 365, Dynamics 365 & Azure

Extensibility model

No limits. Embed insights into everyday user apps to build a data culture throughout your org



WYSIWYG design experience

PowerPoint like pixel perfect drag and drop design experience. Start from a template, report is running with live data as you build it

Data visualizations

Select from hundreds of data visualizations or build your own to bring your data story to life

Native intelligence

Ask questions of your data, deliver automated insights; all visualized in the context of your business

Big data support with Azure

Leverage Azure Data Services like Date Lake and SQL Data Warehouse to optimize analysis big data

Microsoft Power Platform

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



Power BI
Business analytics



Power Apps
Application development



Power Automate
Workflow automation



Copilot Studio
Intelligent Copilots



Dataverse



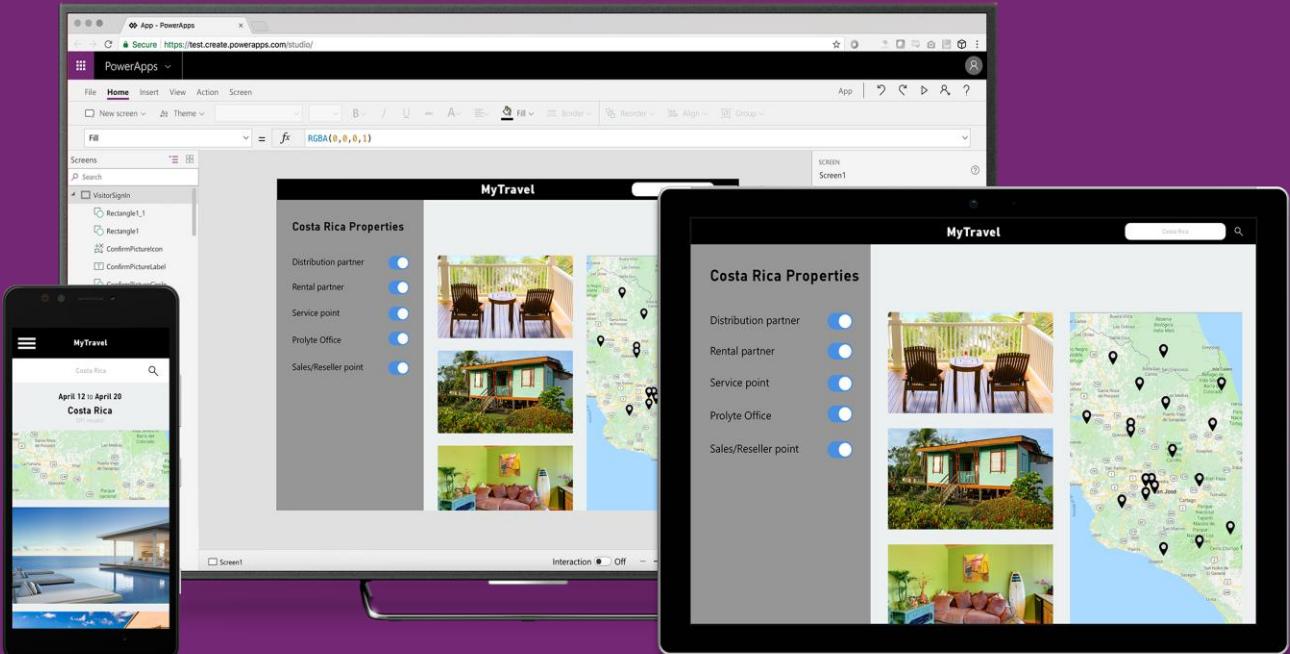
**Data
connectors**



AI Builder

Build apps for web and mobile with Power Apps

- Easily build web & mobile apps with a full featured low-code/no-code development experience
- Empower business users to solve their own problems and easily share apps while maintaining security & governance
- Pro developer extensibility enables a “no limits” platform that spans business users to professional developers





Anatomy of an app

Any platform support

Supports all major platforms and gives native access to device capabilities like camera, GPS, pen & ink

Share apps like documents

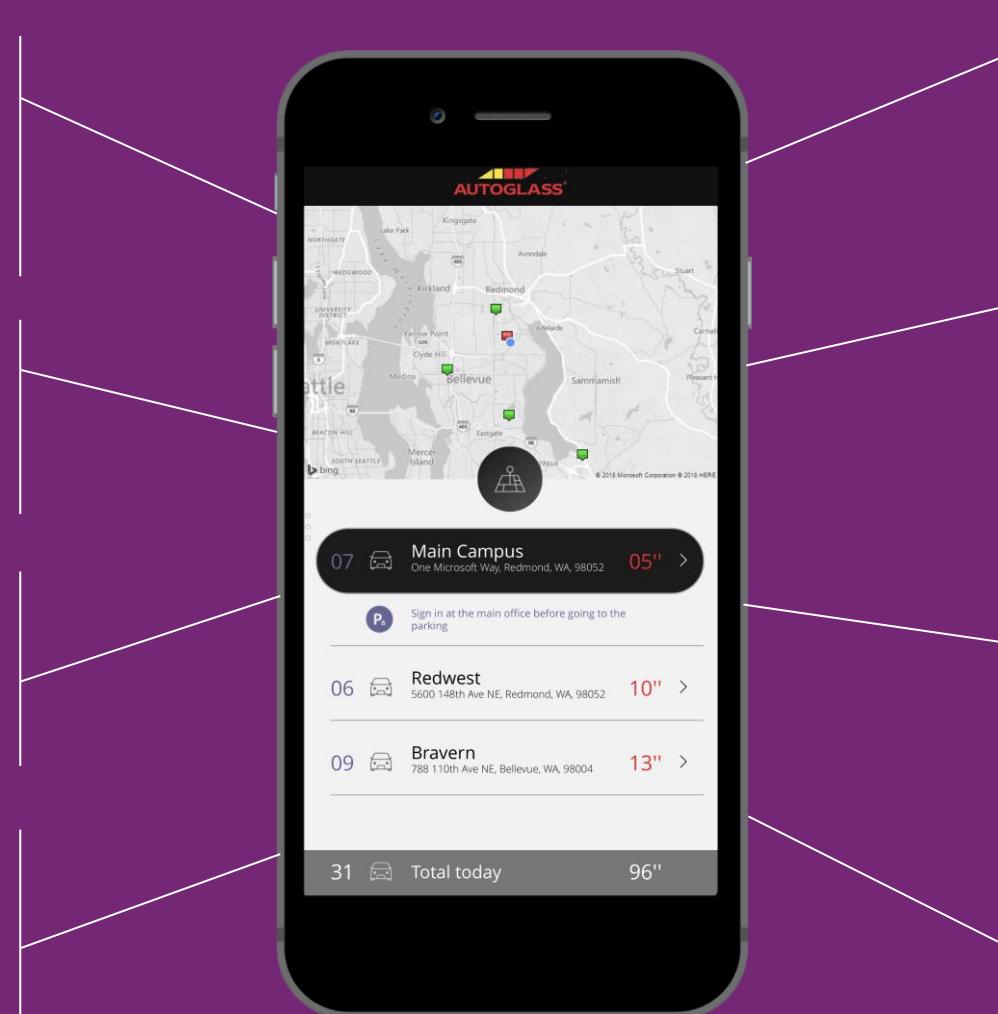
Share your app with 3 clicks and an email address. It's pushed to mobile devices in seconds

Seamless integration

Directly integrated with Power Automate, Power BI, Microsoft Teams, Office 365, Dynamics 365 & Azure

Extensibility model

No limits. Get a pro-dev to build you a control or connector if you need something custom



WYSIWYG design experience

PowerPoint like pixel perfect drag and drop design experience. Start from a template, app is running with live data as you build it

Data connectivity

Connect to hundreds of services and apps with built-in connectors for everything from Adobe, to ZenDesk, to on-prem

Built-in data platform

Use Dataverse to store app data in a standardized Common Data Model

App logic

If you can understand formulas in Excel you can add logic to your Power App. Leverage AI Builder to democratize AI in your org

Microsoft Power Platform

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



Power BI
Business analytics



Power Apps
Application development



Power Automate
Workflow automation



Copilot Studio
Intelligent Copilots



Dataverse

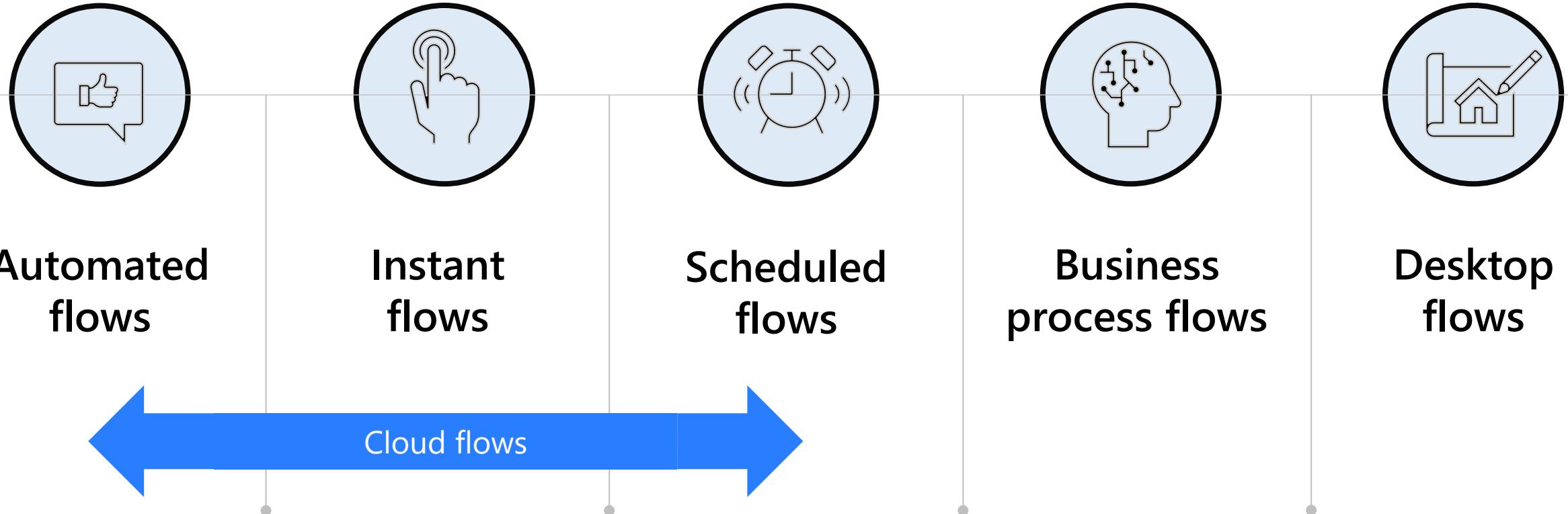


**Data
connectors**



AI Builder

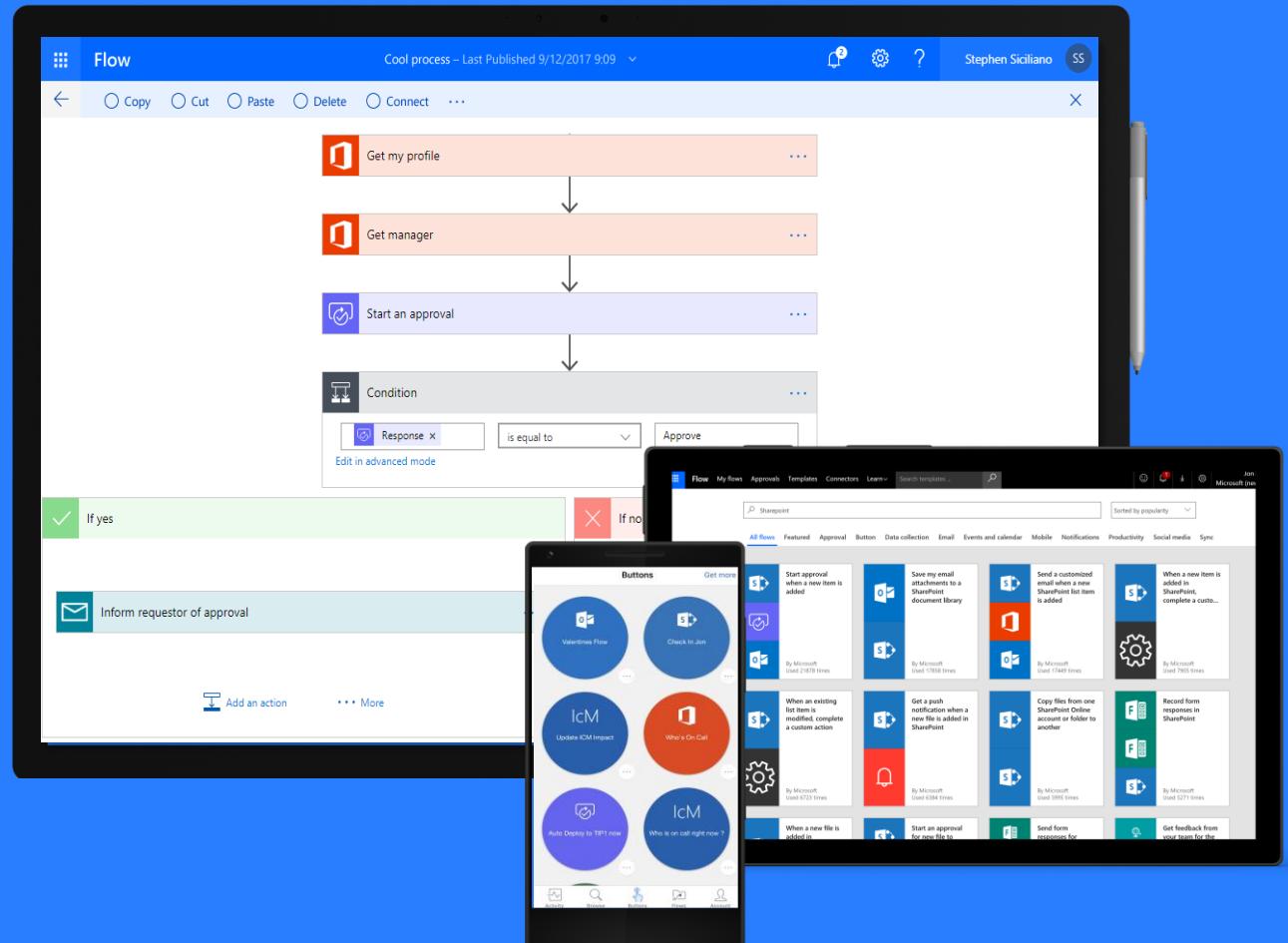
Types of Power Automate flows





Automate and integrate business processes with Power Automate

- Model business processes and automate workflows and your apps and services
- Deep and broad, from simple individual automation to advanced org scenarios with branches, loops, and more
- Trigger actions, grant approvals, and get notifications right where you work





Anatomy of a flow

Any platform support

Supports all major platforms, available on the web or with mobile on the go

Share flows like documents

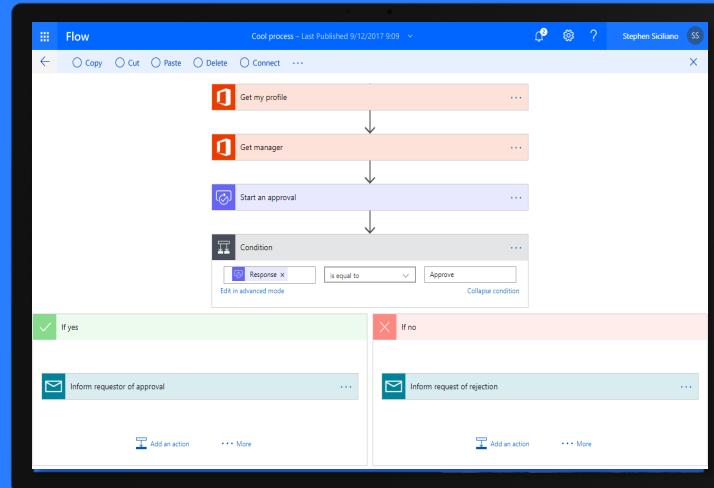
Share your flow with 3 clicks and an email address. It's pushed to users in seconds

Seamless integration

Directly integrated with Power Apps, Power BI, Microsoft Teams, Office 365, Dynamics 365 & Azure

Extensibility model

No limits. Automate advanced scenarios with multiple steps, branching conditions and more. Synchronize files between 1st and 3rd party systems seamlessly



WYSIWYG design experience

PowerPoint like drag and drop design experience. Start from a template, flow is running with live data as you build it

Data connectivity

Connect to hundreds of services with built-in connectors for everything from Adobe, to ZenDesk, to on-prem

Built-in data platform

Use the Dataverse to store app data in a standardized Common Data Model

Logic and automation

Build flows that monitor and execute actions, leverage AI Builder to democratize AI, send emails automatically, notify people in processes

Microsoft Power Platform

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



Power BI
Business analytics



Power Apps
Application development



Power Automate
Workflow automation



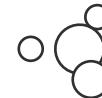
Copilot Studio
Intelligent Copilots



Dataverse



**Data
connectors**

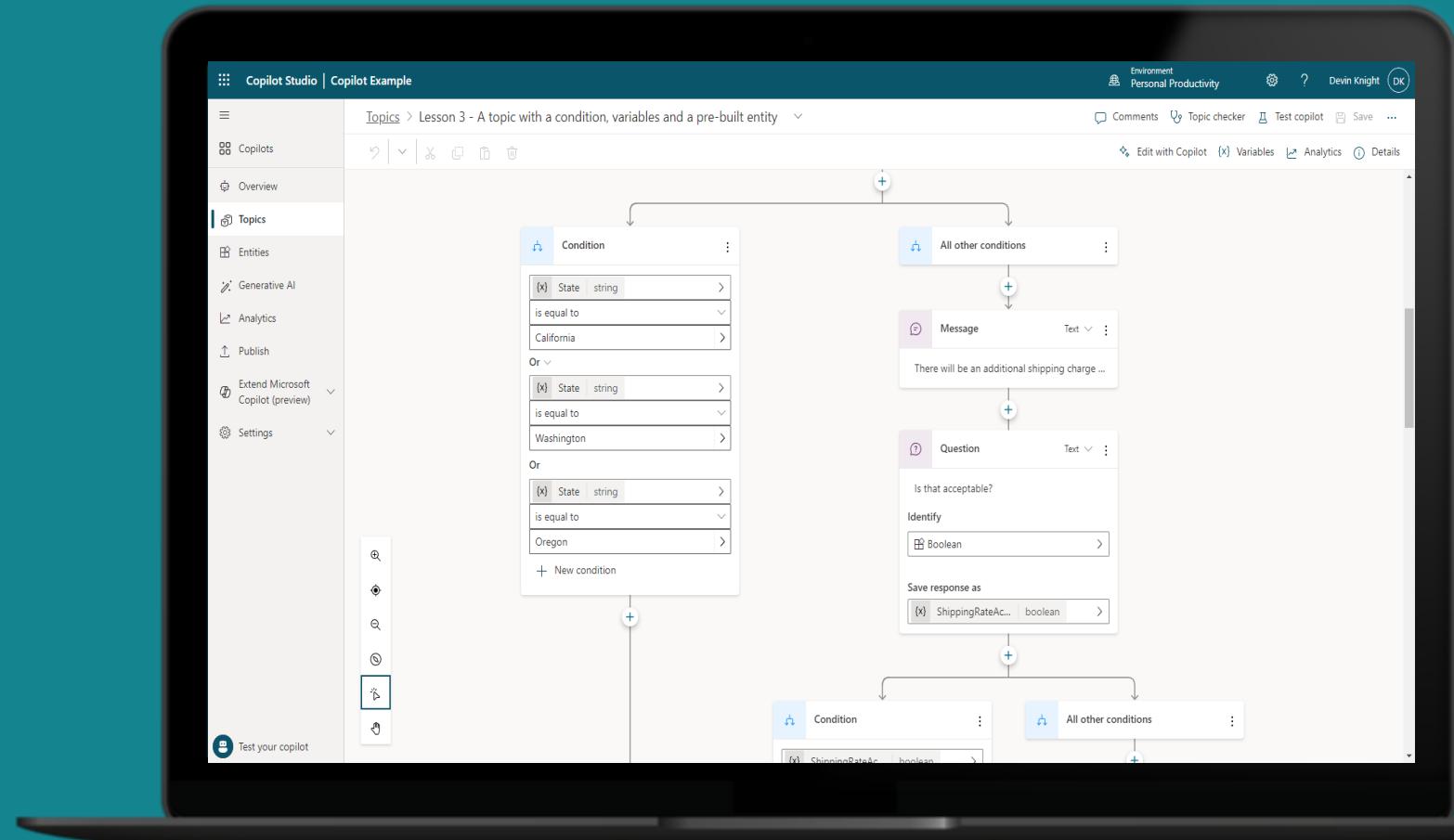


AI Builder

Build Intelligent no code Copilots with Copilot Studio



- Empower your subject matter experts to easily create powerful bots using a guided, no-code graphical interface
- Engage with customers and employees conversationally
- Point to your website, and our AI will automatically build topics to get started with
- Connect to your backend systems using hundreds of connectors that are available with Power Platform



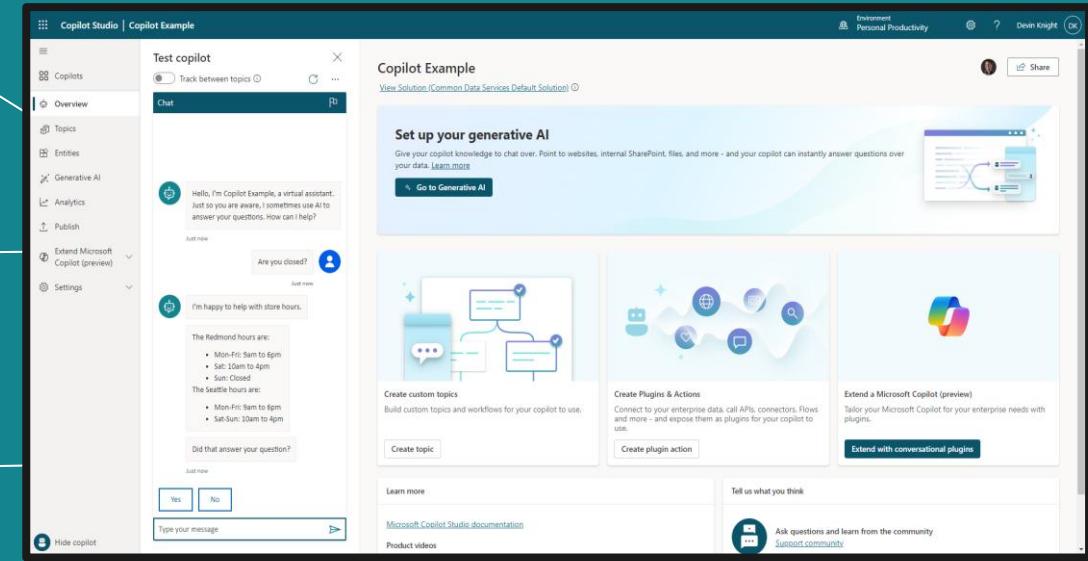
Anatomy of the Copilot dashboard



Create chatbots using simple, graphical interface

Extract starter topics from FAQs websites, etc.

Author rich topics with slot filling, variables, entity extraction, dynamic dialog and more



Monitor and continuously improve chatbot's performance using AI and data driven insights available in an easy to read dashboard

Deploy chatbot to a website, any Azure Bot Framework channel or integrate it within a Power App

Extend your chatbot with Microsoft Azure Bot Framework Skills for complex scenarios

Anatomy of a Copilot

Available Any Time

Improved customer satisfaction with 24/7 self-help and rich bot conversations.

Reduced Costs

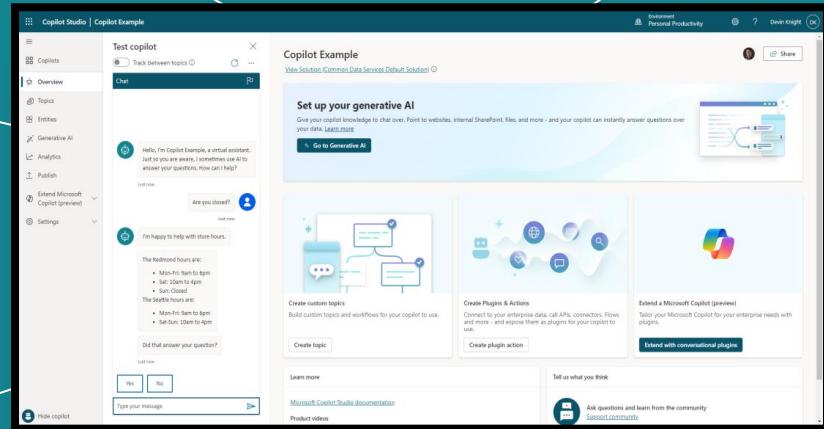
Build a bot in four easy steps to address common inquiries. Free up valuable resources to focus on the more complex issues.

Interface Anywhere

Meet your audience where they are by publishing your bot to Teams, Slack, Facebook, and many other channels.

Intuitive Design Interface

No need for AI expertise. Code-free graphical interface puts the power in the hands of your subject matter experts.



Natural Language Conversations

Powerful AI capabilities allow for multi-turn conversations using every-day language.

Data Connectivity

Connect to hundreds of services and apps through Power Automate to empower your bot to do more than just chat.

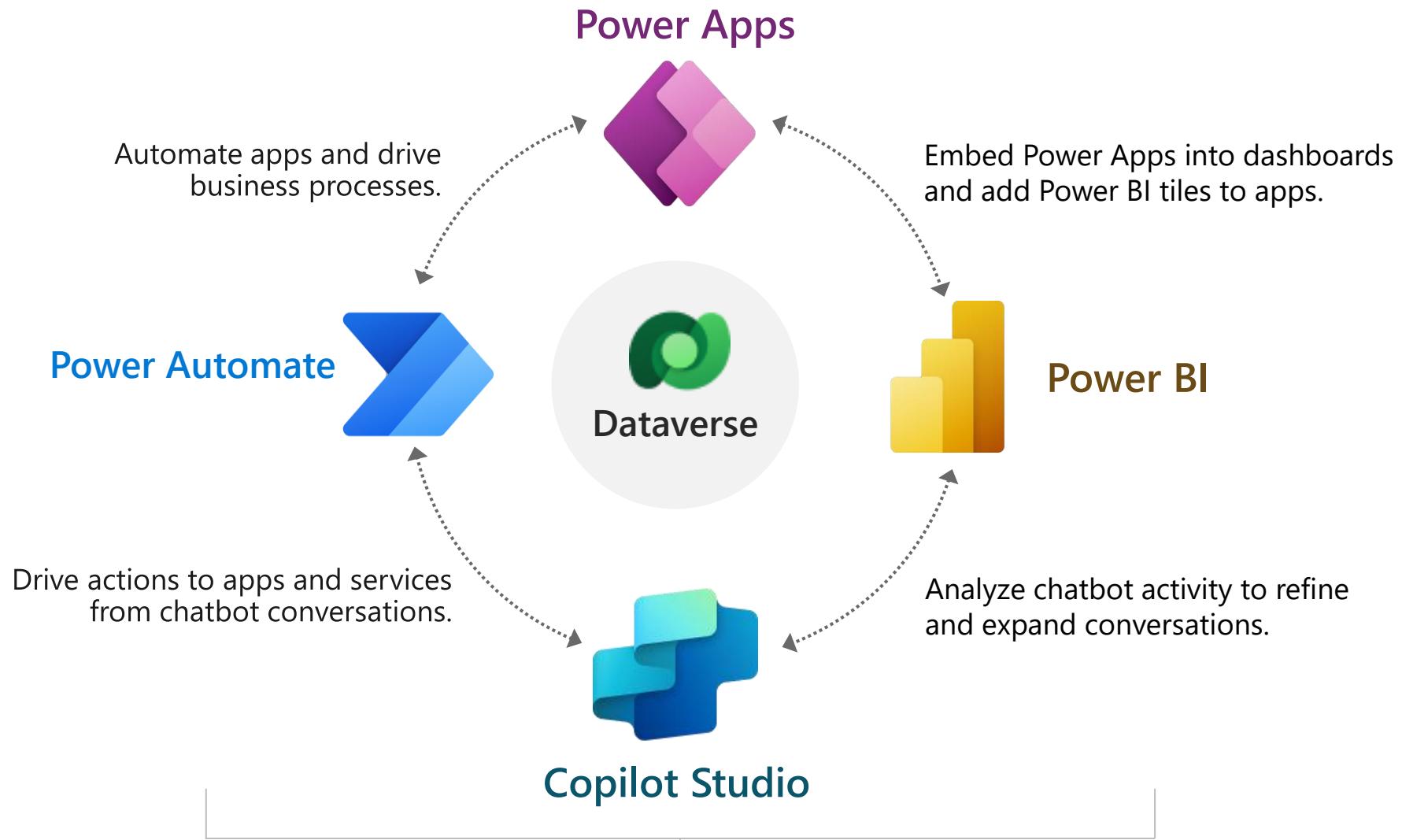
Powerful Analytics

Monitor bot performance with powerful metrics AI-driven dashboards.

Valuable Insights

Pair with Dynamics 365 Customer Service Insights to determine trending topics to automate.

Powerful alone. Even better together.



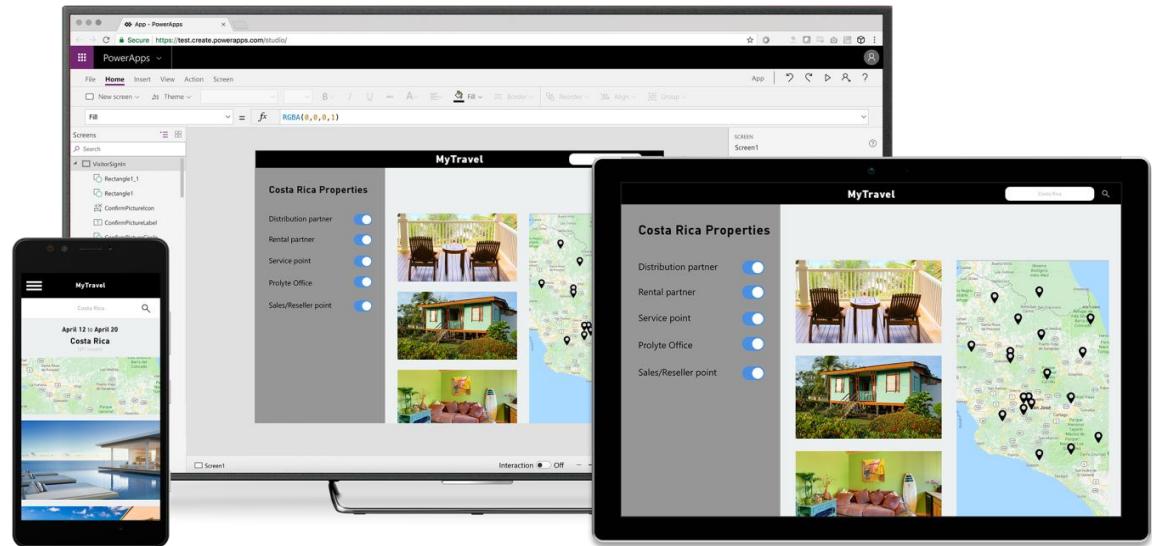
Innovate faster with a low-code platform

Reduce time & cost building business applications

Extend your system of record to simplify processes and remove silos

Reduce errors by automating manual processes

Consolidate siloed LoB application and improve business processes



A unique approach to building business apps



Easily build apps with a full featured low-code / no-code platform



Connect to all your data with pre-built and custom connectors



Enrich and extend your data with Dataverse, AI Builder, and Portals



Dynamics 365, Azure, Power BI, Power Automate, and Office 365 integration



Strong enterprise governance and security



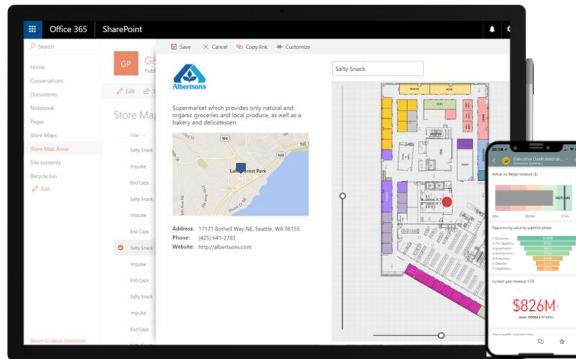
Pro developer extensibility and ALM

The screenshot illustrates the Microsoft PowerApps development environment. On the left, the 'Screens' pane shows the 'MainScreen' with a 'DeviceGallery' component. The main canvas displays a 'Device Ordering App' screen featuring a grid of device images and details. The right side of the interface contains the 'Properties' and 'Rules' panels for the selected 'DeviceGallery' item. Below the studio, a smartphone displays the same 'Device Ordering App' screen, demonstrating how the desktop application is rendered on a mobile device.

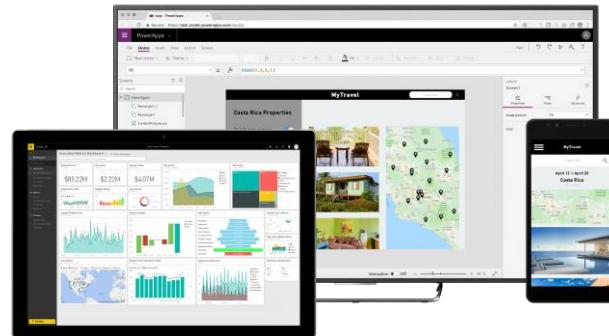
Customize, extend, and build all the apps you need

Seamless Dynamics 365, Office 365, and Azure integration along with connectors to hundreds of data sources

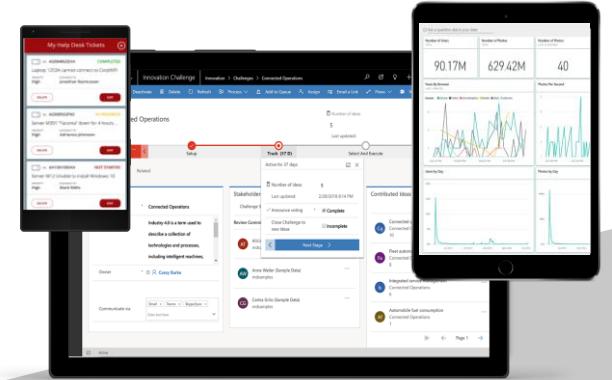
Tailor out-of-the-box solutions, embedded forms and dashboards



Highly customized task- and role-based apps



Immersive, end-to-end solutions



SOPHISTICATION

Customer momentum: Power BI



Retail and consumer goods



Discrete manufacturing



Government and education



Healthcare



Until no child has AIDS.



Banking and financial services



Professional services



Technology systems and services



Customer Momentum with Power Platform + Azure



Retail and Consumer Goods



Manufacturing and Telecommunication



Government, Education, and Non-profit



Energy, Utilities and Travel



American Airlines



Banking and Financial Services



Professional Services



Technology

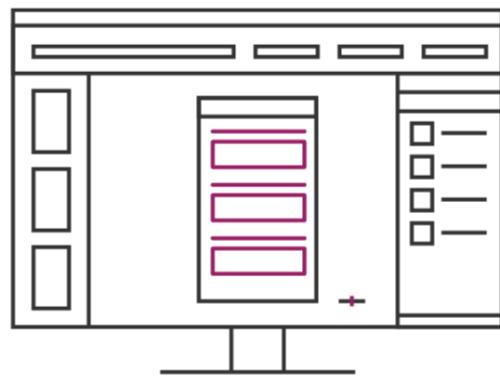


Module 1: Power Apps Canvas App

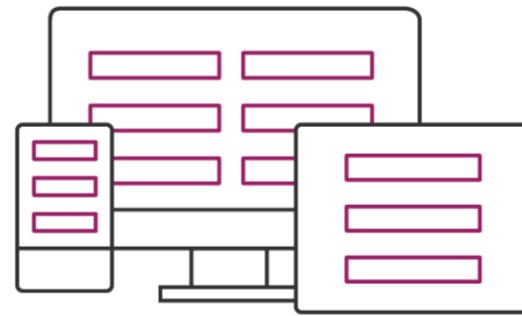
Canvas Apps help business power users to create and use custom business apps across platforms using Excel and PowerPoint skills



Connect to data & systems you're already using *easily*

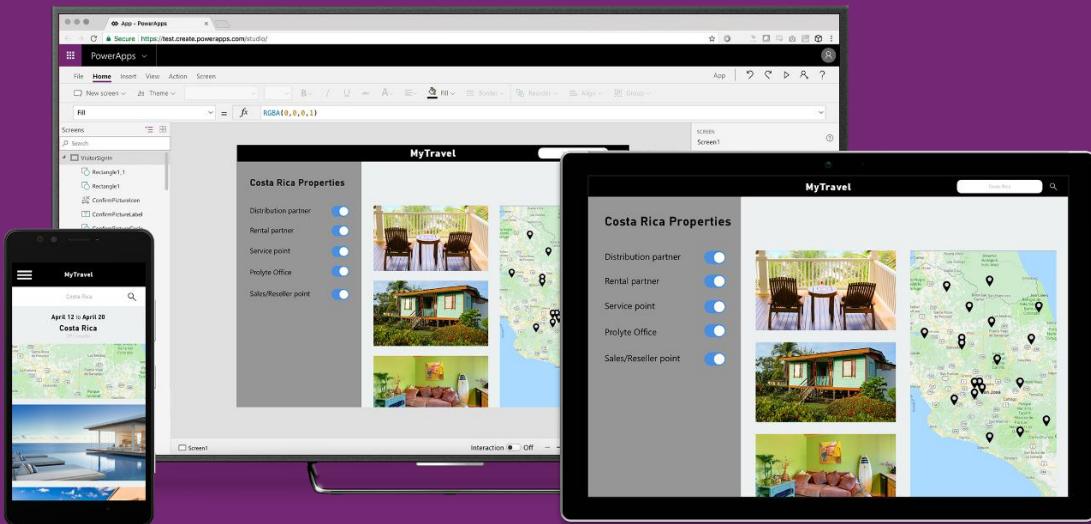


Create apps, forms, and workflows *without writing code*



Use apps *on any device* – both web and mobile

Apps for web and mobile



Build **standalone** web and mobile apps, or **customize** existing apps in Office 365 and Dynamics 365 to deliver a seamless experience **across channels**

Craft **pixel-perfect experiences** from a blank canvas for highly customized, task and role-based apps

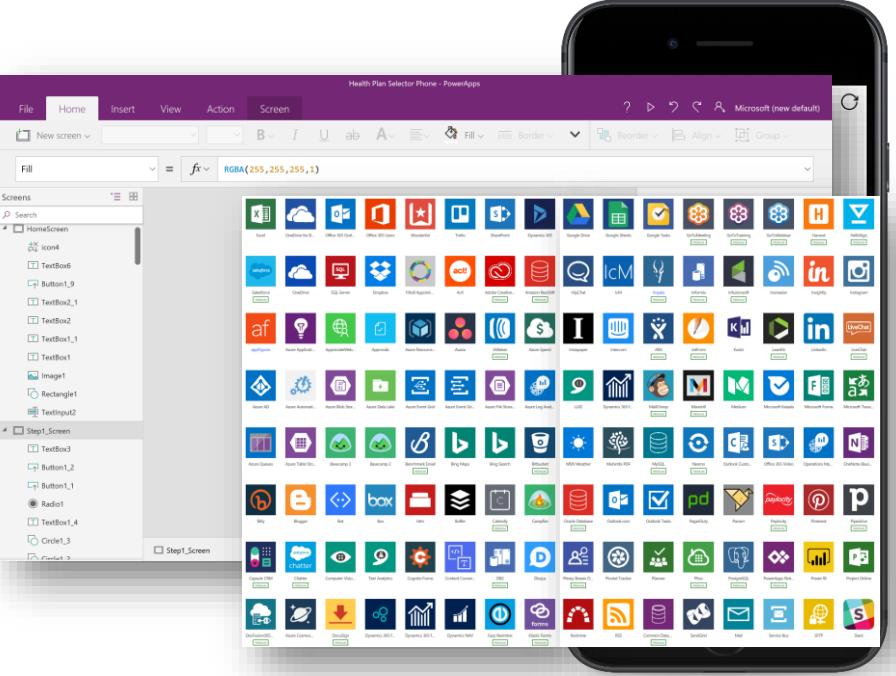
Generate immersive, **declarative, responsive apps** from a rich data model and workflow engine

Connect to **hundreds of data sources** for events and actions, from Microsoft and other vendors

Leverage native mobile capabilities like **camera, GPS, push notifications, add custom** components and more to build consumer grade applications

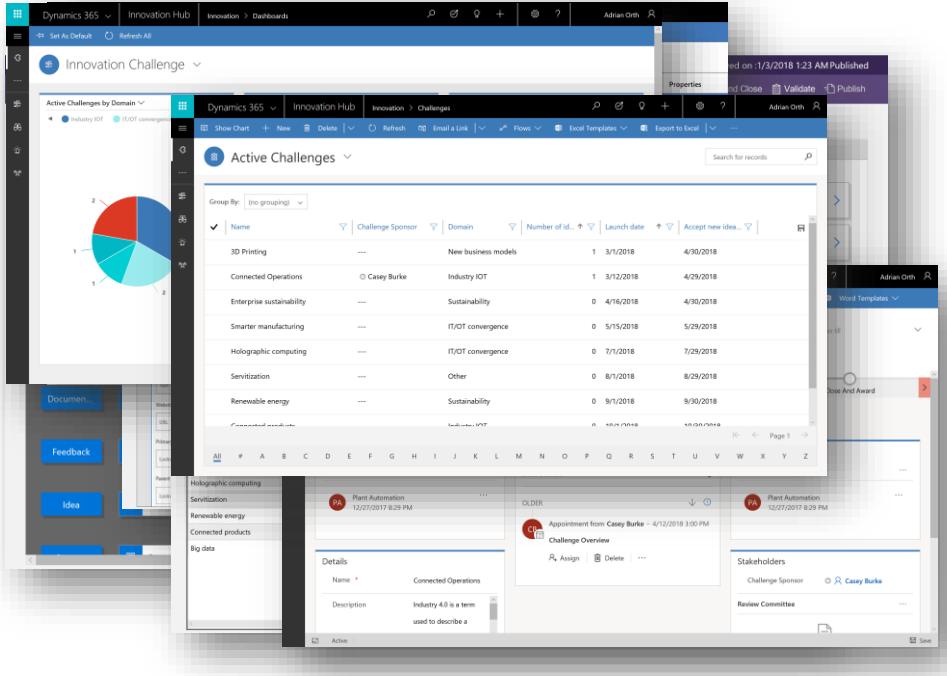
Build with intelligence including **Natural Language Processing**, image detection, and other built-in cognitive services powered by Azure

Starting with Power Apps



The screenshot shows the Microsoft Power Apps Canvas app designer interface. On the left, there's a navigation bar with 'File', 'Home', 'Insert', 'View', 'Action', and 'Screen'. Below it is a 'Screens' section with a tree view of 'HomeScreen' and 'Step1_Screen'. The main area displays a grid of numerous icons representing different data sources and business applications. A smartphone icon is overlaid on the designer interface, showing a similar grid of icons on its screen.

Canvas apps
Start with user experience
WYSIWYG designer
Task-based & role-based apps
Mash-up data from hundreds of sources

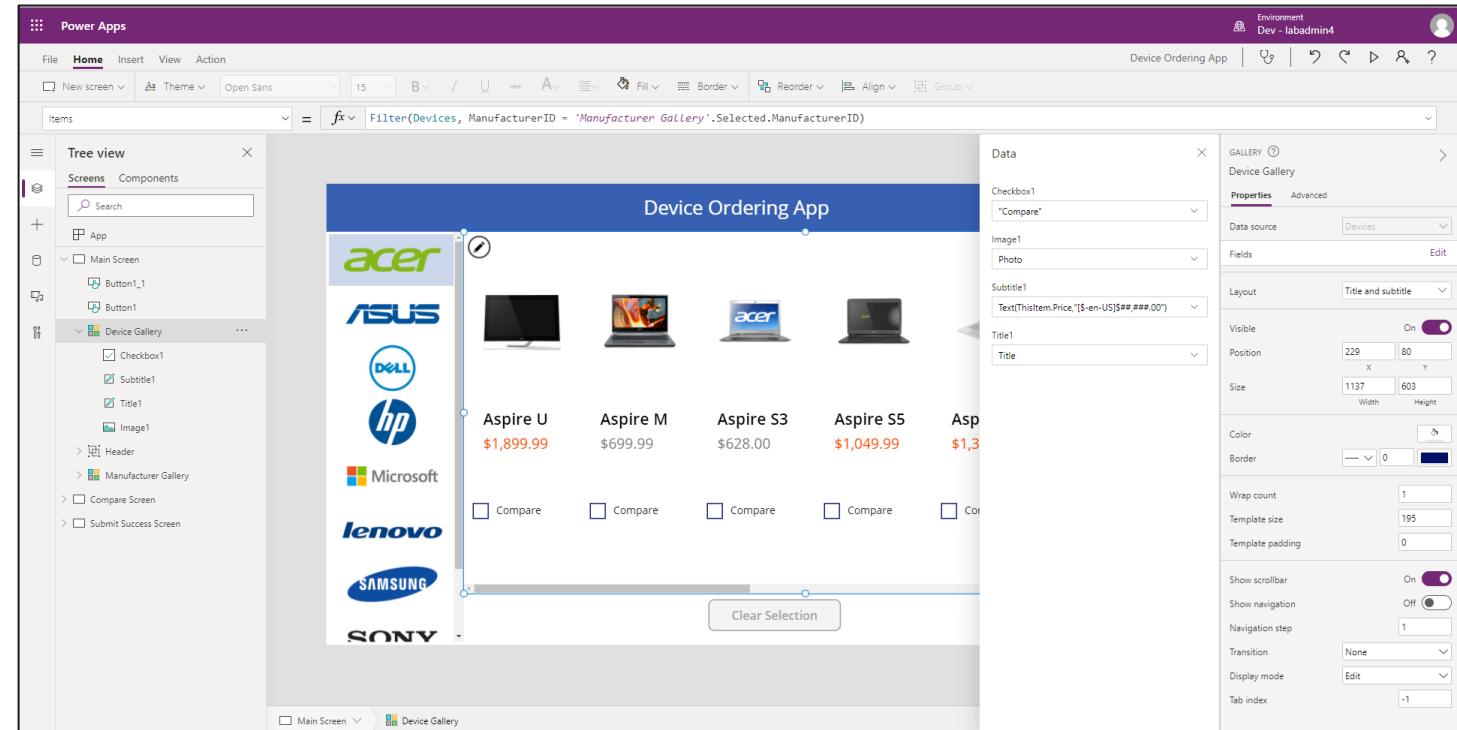


The screenshot shows the Microsoft Dynamics 365 Innovation Hub interface. It features a 'Active Challenges by Domain' chart at the top, followed by a table listing various challenges. The table includes columns for Name, Challenge Sponsor, Domain, Number of id., Launch date, and Accept new idea. Below the table, there are sections for 'Holographic computing', 'ServiceNow', 'Renewable energy', 'Connected products', and 'Big data'. The overall interface is clean and modern, designed for managing business challenges and innovation projects.

Model-driven apps
Built on Dataverse
Start with a data model, relationships, and business processes
Build End-to-End business applications

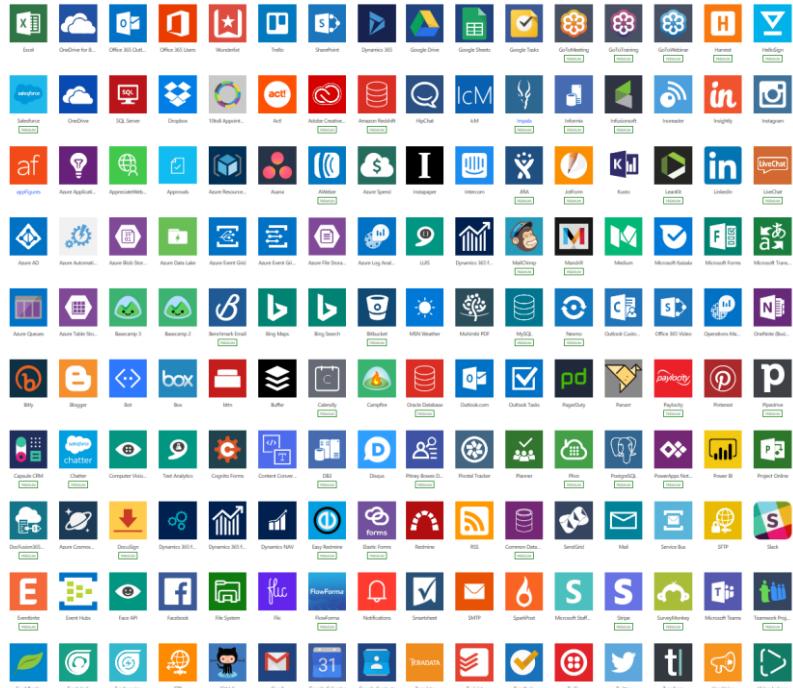
Easy Authoring

- Truly WYSIWYG – full control over user experience, use it as you build it
- Create app logic with familiar Excel-like expressions
- Mash up data from multiple sources right at the app level



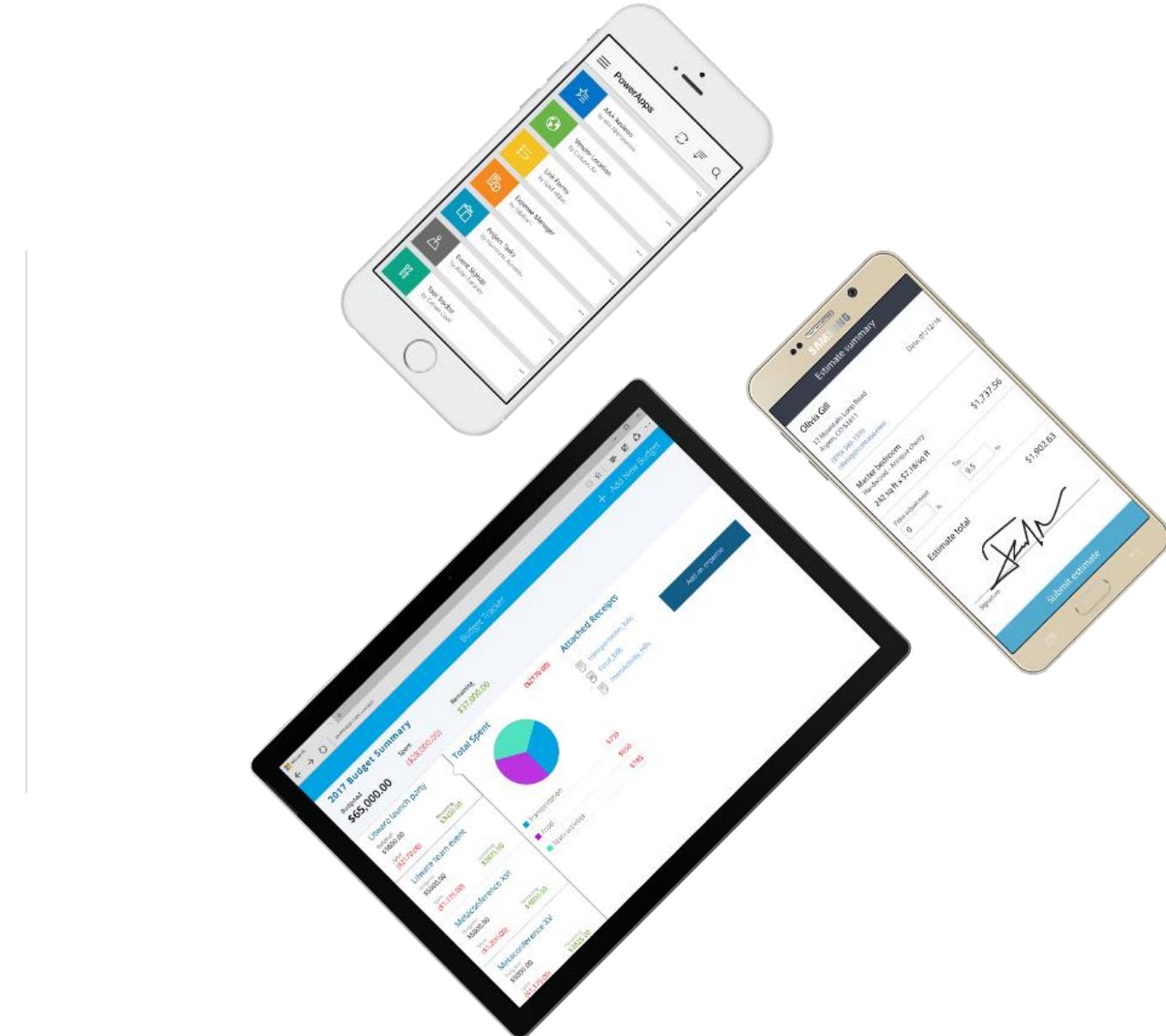
Cloud and on-premises connectivity

- Built-in connectivity to hundreds of cloud services, files, databases, web APIs, etc.
- Seamless hybrid connectivity to on-premises systems via the on-premises Data Gateway
- Build custom connectors for everyone to leverage



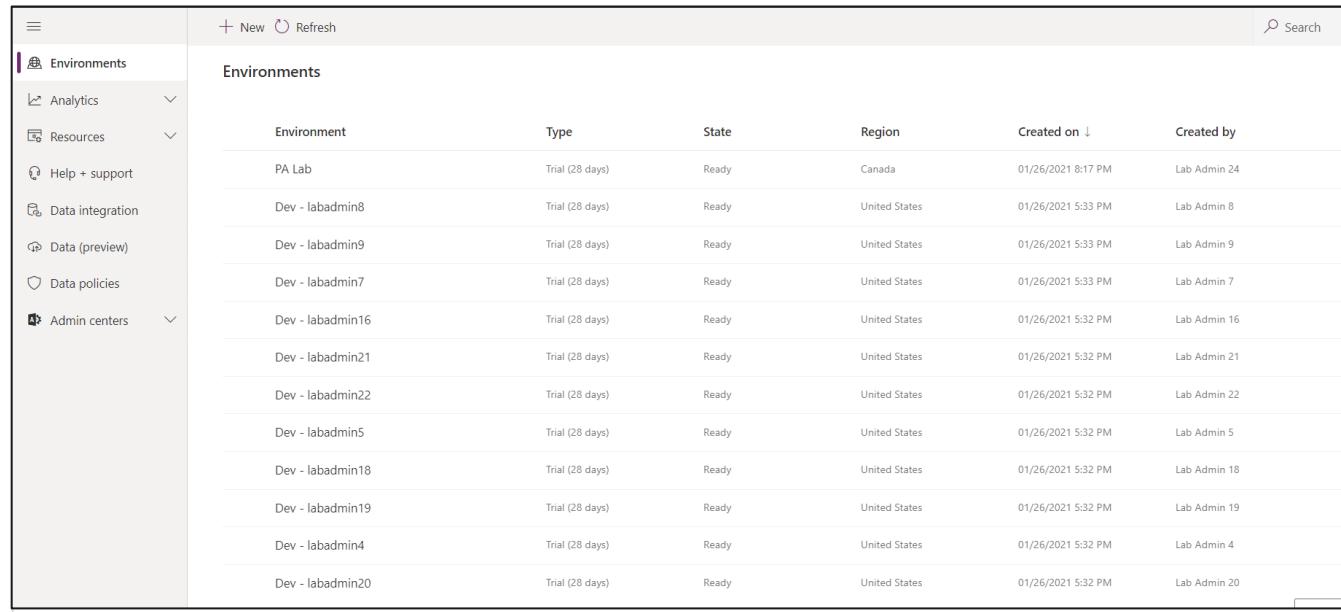
Cross-platform

- Publish instantly to iOS, Android, Windows, and the web
- Sharing apps is like sharing documents
- Manage across environments



Enterprise-grade management and control

- All identity is managed through Azure Active Directory, enabling rich policies and multi-factor authentication
- Admin Center provides full audit logs, usage analytics, data loss prevention, security and data management
- Centrally manage all your apps, first and third party, deployed across your organization

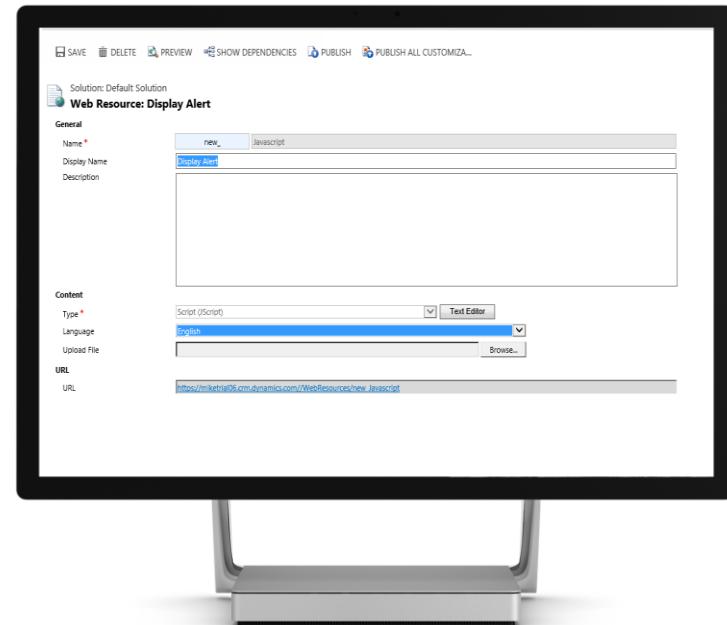


The screenshot shows the Microsoft Admin Center's Environments page. On the left, there is a sidebar with navigation links: Environments (selected), Analytics, Resources, Help + support, Data integration, Data (preview), Data policies, and Admin centers. The main area is titled "Environments" and contains a table with the following data:

Environment	Type	State	Region	Created on	Created by
PA Lab	Trial (28 days)	Ready	Canada	01/26/2021 8:17 PM	Lab Admin 24
Dev - labadmin8	Trial (28 days)	Ready	United States	01/26/2021 5:33 PM	Lab Admin 8
Dev - labadmin9	Trial (28 days)	Ready	United States	01/26/2021 5:33 PM	Lab Admin 9
Dev - labadmin7	Trial (28 days)	Ready	United States	01/26/2021 5:33 PM	Lab Admin 7
Dev - labadmin16	Trial (28 days)	Ready	United States	01/26/2021 5:32 PM	Lab Admin 16
Dev - labadmin21	Trial (28 days)	Ready	United States	01/26/2021 5:32 PM	Lab Admin 21
Dev - labadmin22	Trial (28 days)	Ready	United States	01/26/2021 5:32 PM	Lab Admin 22
Dev - labadmin5	Trial (28 days)	Ready	United States	01/26/2021 5:32 PM	Lab Admin 5
Dev - labadmin18	Trial (28 days)	Ready	United States	01/26/2021 5:32 PM	Lab Admin 18
Dev - labadmin19	Trial (28 days)	Ready	United States	01/26/2021 5:32 PM	Lab Admin 19
Dev - labadmin4	Trial (28 days)	Ready	United States	01/26/2021 5:32 PM	Lab Admin 4
Dev - labadmin20	Trial (28 days)	Ready	United States	01/26/2021 5:32 PM	Lab Admin 20

Amplify traditional developer productivity

- Extend applications using custom code
- Build custom connectors that everyone can use
- Write advanced client or server-side logic leveraging Azure Machine Learning, Cognitive Services, Bing APIs, custom code, or any service of your choice



Better together!

Embed canvas apps

- In websites
- In SharePoint
- In Power BI
- In model-driven

Home EDIT LINKS

Settings › Form Settings

Form Options

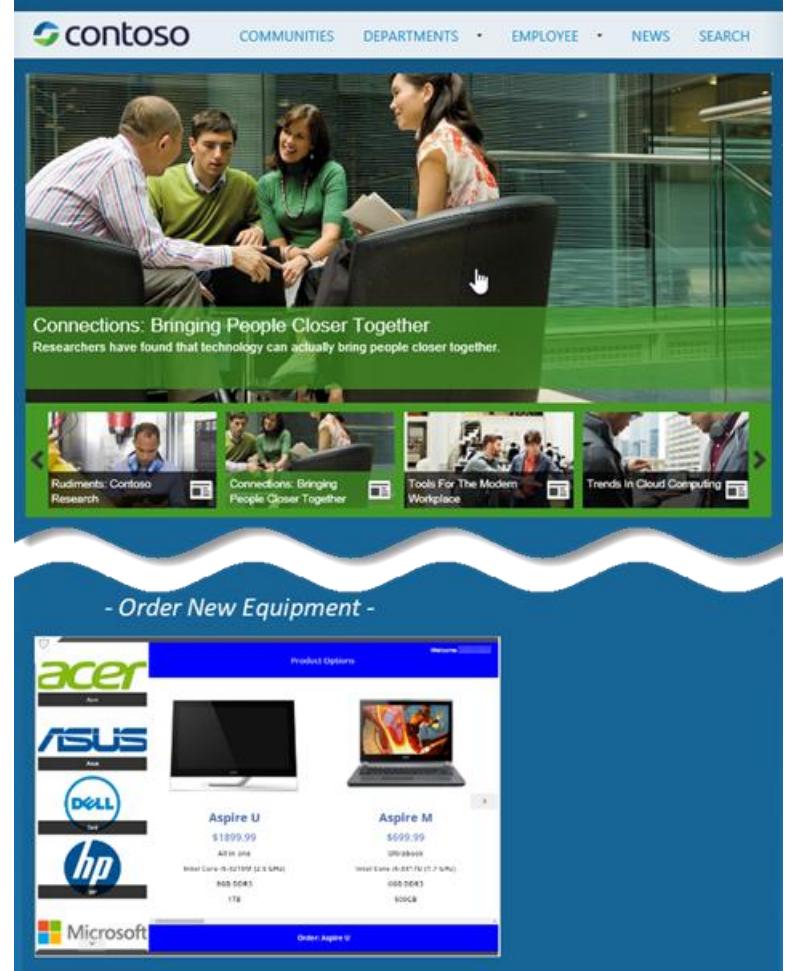
Use Microsoft PowerApps to customize the forms for this list. You can modify the form layout, add pictures and formatted text, add custom data validation, create additional views, and add rules.

Microsoft InfoPath is also provided as an option for backwards compatibility. Using PowerApps is recommended over using InfoPath.

Use the default SharePoint form

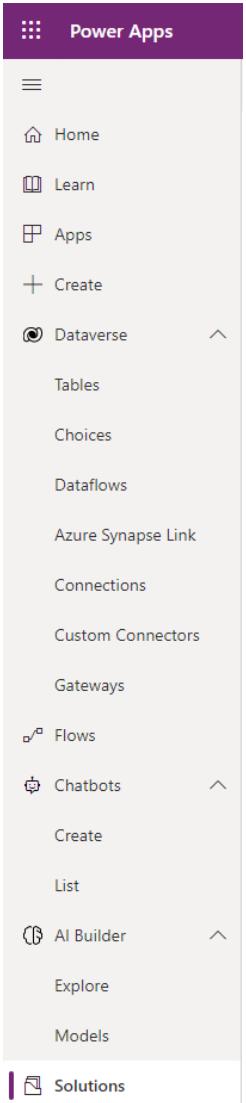
Use a custom form created in PowerApps [Modify form in PowerApps](#)

Use a custom form created in InfoPath [Customize in InfoPath](#)



Key Maker Concepts

Power Apps Maker Portal [<https://make.powerapps.com/>]



- Learn
- Manage Apps
 - View apps, open apps, create new apps, run sample apps, create apps from sample apps
- Data
 - Manage entities, option sets, data integration, connections, custom connections & gateways
- Chatbots: create and view your bots here
- Business Logic: Add flows to your apps
- AI Builder: Democratized artificial intelligence for all
- Solutions: They hold and transport customizations and apps

Power Apps Studio experience

- Canvas apps authoring experience
- Start with your data
- Start with a blank canvas
- Start with a template

Build business apps, fast

Create apps that connect to your data and work across web and mobile. [Learn about Power Apps](#)

Start from

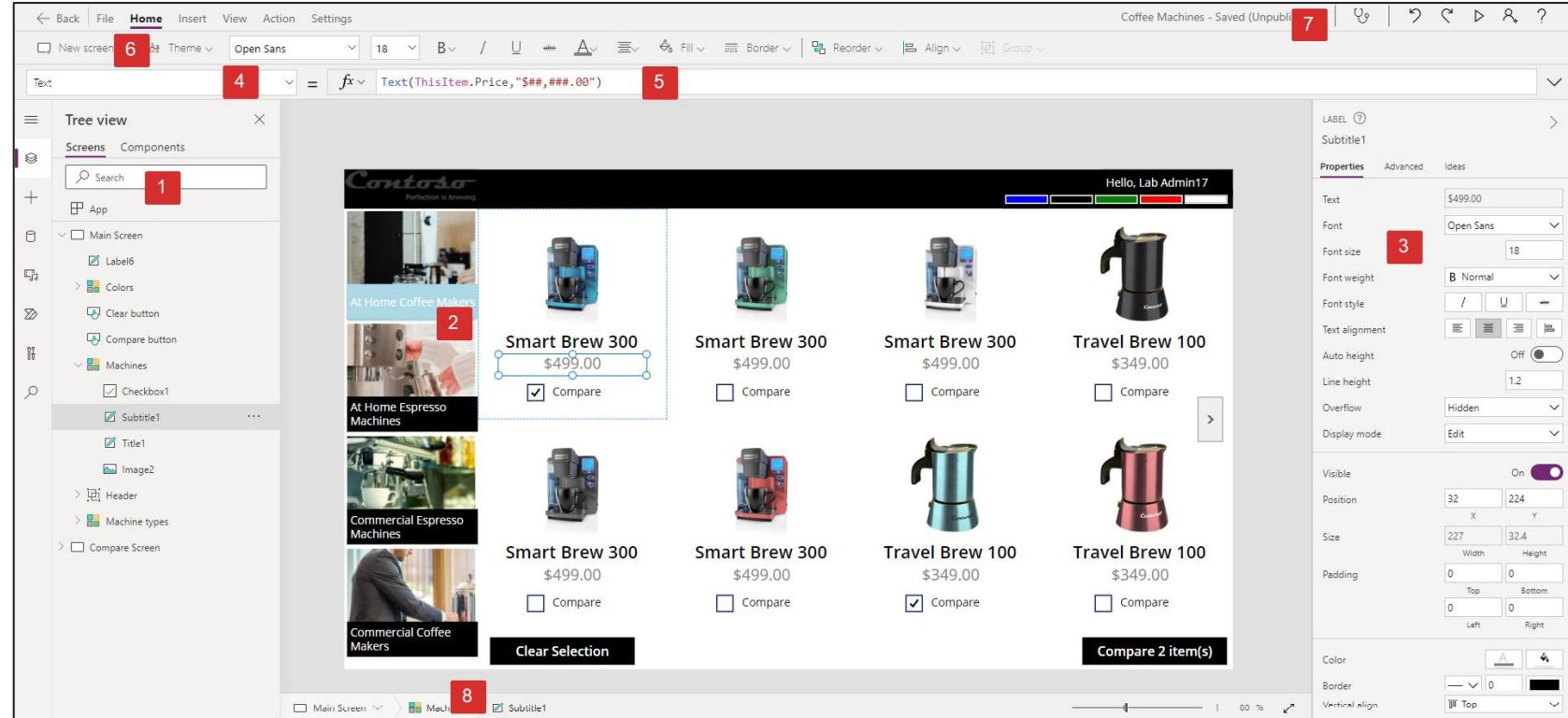
 Blank app Create an app from scratch and then add your data	 Dataverse Start from a Dataverse table to create a three-screen app	 SharePoint Start from a SharePoint list to create a three-screen app	 Excel Start from an Excel file to create a three-screen app	 SQL Start from a SQL data source to create a three-screen-app
 Image (preview) Upload an image of an app or form and we'll convert it into an app	 Figma (preview) Start from our Figma UI kit and convert it into an app			
More create options →				

Learning for every level

 Get started with Power Apps Beginner 51 mins	 Author a basic formula to change properties in a... Beginner 42 mins	 Work with external data in a Power Apps canvas app Intermediate 43 mins	 Manage and share apps in Power Apps Beginner 42 mins
---	---	--	---

Explore the app designer experience

1. Left navigation bar
2. Middle pane
3. Right-hand pane
4. Property
5. Formula bar
6. Ribbon
7. Additional items
8. Breadcrumbs



Power Apps Mobile (Player)

Power Apps Mobile for Windows, iOS, and Android

- Available from respective app-stores as a free app
- Sign-in using your work account (Office 365 / Dynamics 365 Azure AD credentials)
- Access all your apps or apps shared with you across environments



Google Play: <https://aka.ms/powerappsandroid>

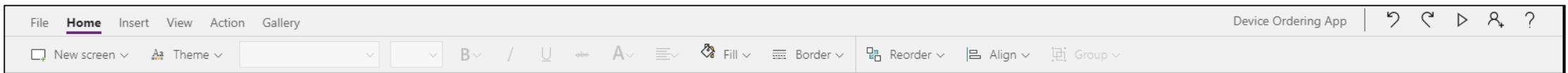
Apple App Store: <https://aka.ms/powerappsiOS>

Microsoft Store: <https://aka.ms/powerappswin>

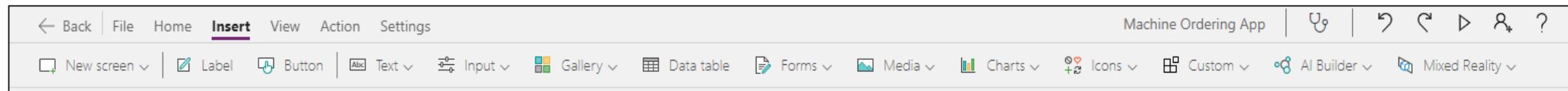


Power Apps Studio

Common Properties



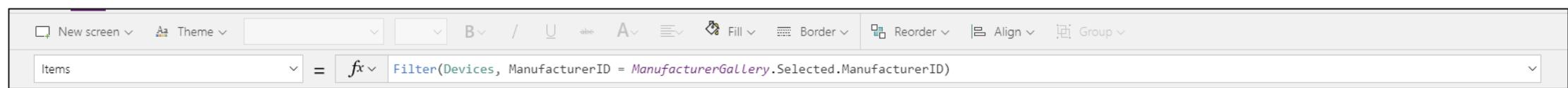
UI: Controls



View: Data



UI-Data Binding: Properties & Formula bar



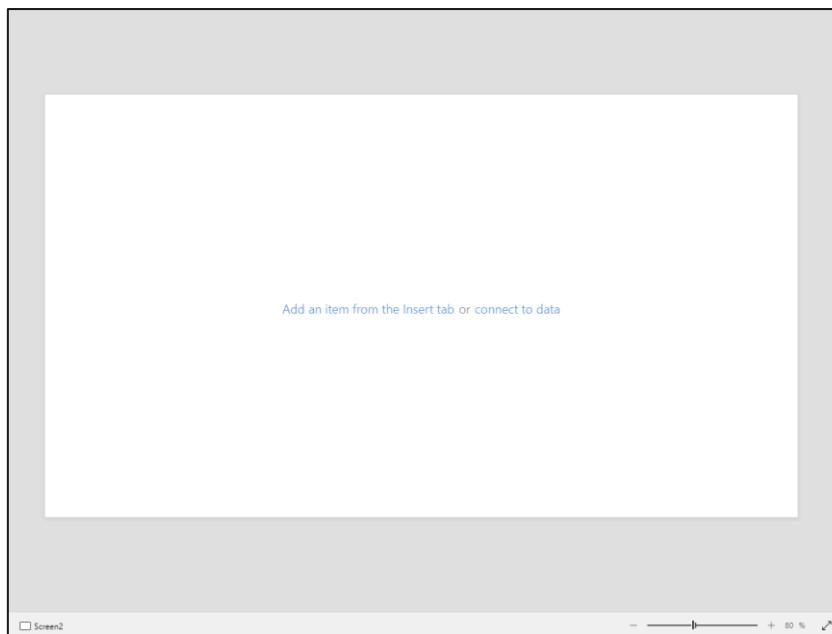
Screens & Controls View

Screens

Search

- MainScreen
 - Button2_1
 - Button2
 - ManufacturerGallery
 - Image3
 - DeviceGallery
 - Checkbox1
 - Subtitle1
 - Title1
 - Image1
 - Label3
 - HeaderLabel
- CompareScreen
 - icon1
 - CompareListGallery
 - Title1_6
 - Title1_5
 - Title1_4
 - Title1_3
 - Title1_2
 - Subtitle1_1
 - Title1_1
 - Image1_1
 - Label3_1
 - HeaderLabel_1

Canvas



Properties Panel

New screen

Items =

GALLERY Device Gallery

Properties Advanced Ideas

Data source

Fields

Layout

Visible On

Position X Y

Size Width Height

Color

Border

Wrap count

Template size

Template padding

Show scrollbar On

Show navigation Off

Navigation step

Transition

Display mode

Tab index

SCREEN Main Screen

Properties Advanced Ideas

Search for a property ...

ACTION

OnVisible

OnHidden

DATA

BackgroundImage

ContentLanguage

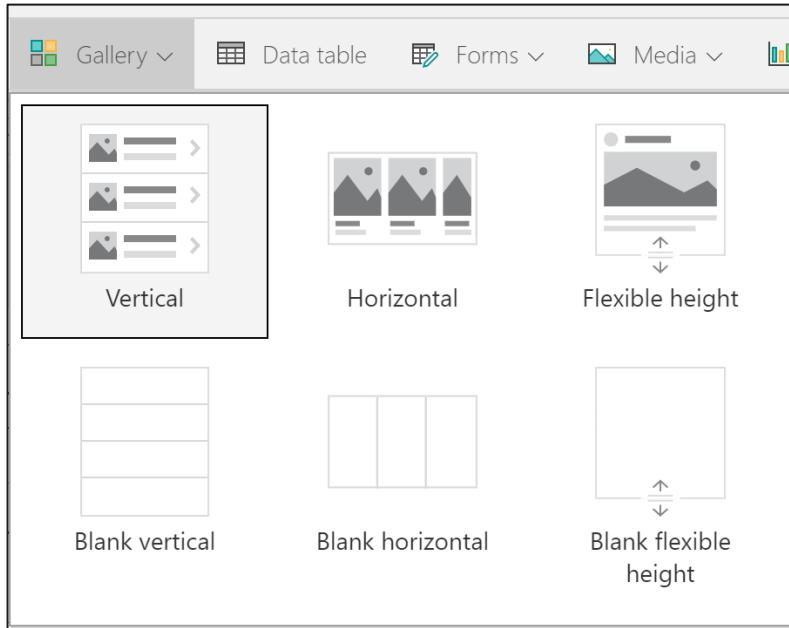
DESIGN

Fill

ImagePosition

Height

Galleries



The screenshot shows the Power BI visual editor interface. At the top, there are tabs: 'Data' (selected), 'Visual', 'Format', and 'Preview'. Below the tabs, there is a main canvas area with a gallery visualization. A blue arrow points to the first item in the gallery, which has a yellow background and a green border. The text 'First item is used to edit the gallery template' is displayed above the gallery. The gallery contains four items, each with an image, title, and subtitle. To the right of the canvas, there is a 'Data' pane with the following settings:

- Data source:** CustomGallerySample (Sample data)
- Layout:** Image, title, and subtitle
- Image2:** SampleImage
- Subtitle2:** SampleText
- Title2:** SampleHeading

Hands-on-lab introduction

Business scenario



Imagine an organization where every few years the employees request an updated coffee machine for their employee break room



We will streamline the device order, procurement and approval process and view aggregate reports



The employee-facing device ordering app needs to run in a web browser and on mobile devices

This screenshot shows the Microsoft Dynamics 365 Business Central interface. A card for a 'Device Requested' item is open, showing details like 'Requested Date: 04/09/2018', 'Approval Status: ---', and 'Price: \$899.99'. The card has a 'Next Stage >' button at the bottom.

This screenshot shows the Contoso Machine Ordering app. It displays a grid of coffee makers with images, names, prices, and compare buttons. Categories like 'At Home Coffee Makers', 'Commercial Espresso Machines', and 'Commercial Coffee Makers' are visible on the left.

This screenshot shows a Microsoft Flow workflow titled 'Device approval request'. It starts with a trigger 'When a record is created (Admin Only) [Review]'. The main logic is 'Start an approval' followed by a condition 'Response K is equal to Approve'. If 'Yes', it updates a record and sends an email notification. If 'No', it updates another record. The flow includes options to 'Add an action' and 'Save flow'.

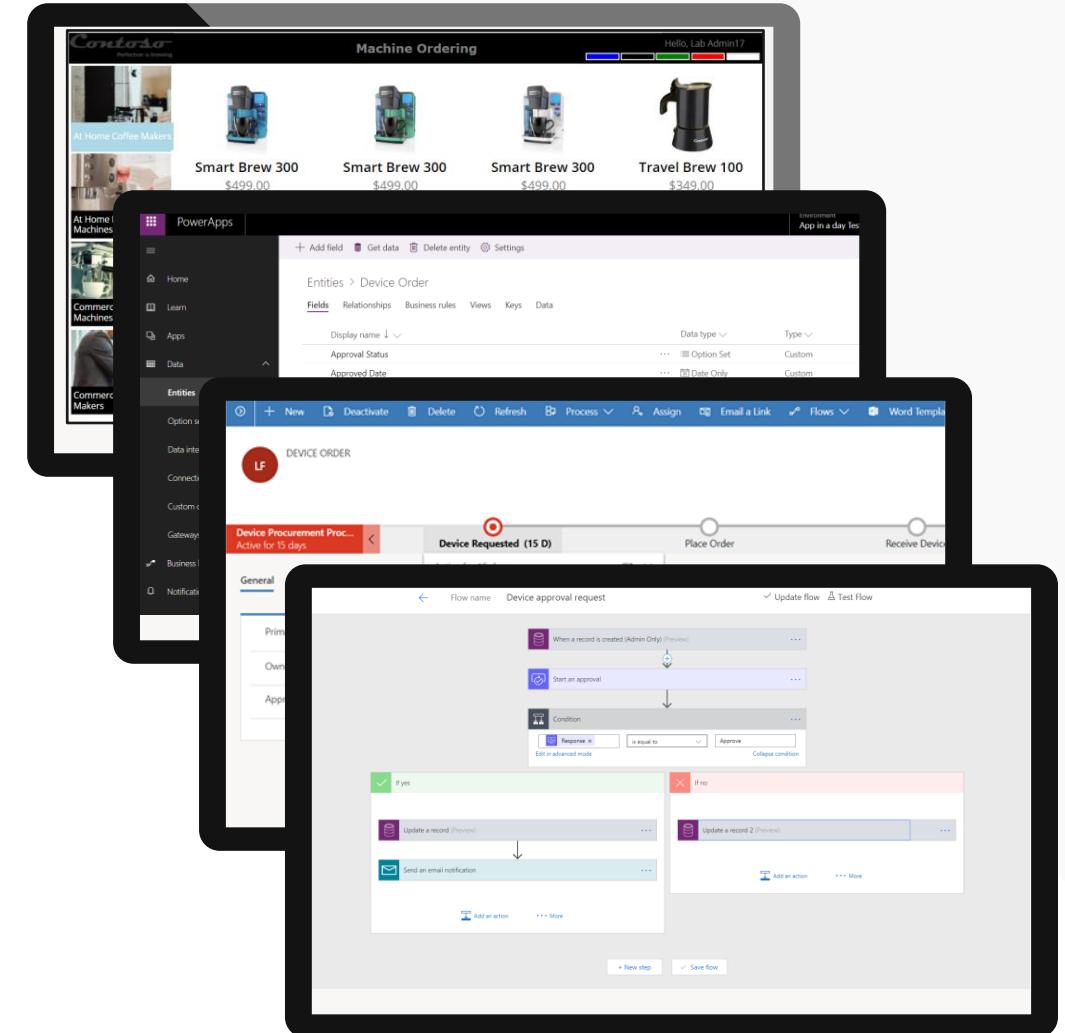
Lab objectives

Build a **Power Apps Canvas app** for employee facing device ordering experience

Use **Dataverse** to store the device orders in the cloud

Build a **Power Apps Model-driven app** to complete the procurement process

Use **Power Automate** to build an approval workflow for device approval



Lab content

Package: <http://aka.ms/appinaday>

Unzip the package on your local machine

| Follow instructions: "00-AppinaDay Lab Overview.pdf"



Contains 4 modules with a lab doc for each

- 01-Power Apps Canvas App
- 02-Dataverse
- 03-Power Apps Model-driven App
- 04- Power Automate



Completed Modules

- The \Completed folder contains solution packages that you can import
- e.g. To work on Module 4 without completing previous modules -> see \Completed\Module3

Lab docs:

Name	Status
Completed	✓
00-AppInADay Lab Overview	✓
01-PowerApps Canvas App Lab Manual	✓
02-Common Data Service for Apps La...	✓
03-PowerApps Model-driven App Lab ...	✓
04-Microsoft Flow Lab Manual	✓
05-PowerBI Lab Manual	✓
Device-Order-Data	✓
Historical Device Orders	✓

Completed modules:

Name	Status
Module 1	✓
Module 2	✓
Module 3	✓
Module 4	✓

Lab overview



Hands-on-lab 1

Module 1: Power Apps Canvas App

Module 1:Learning objectives



Sign-in and create a new canvas app



Connect to data sources



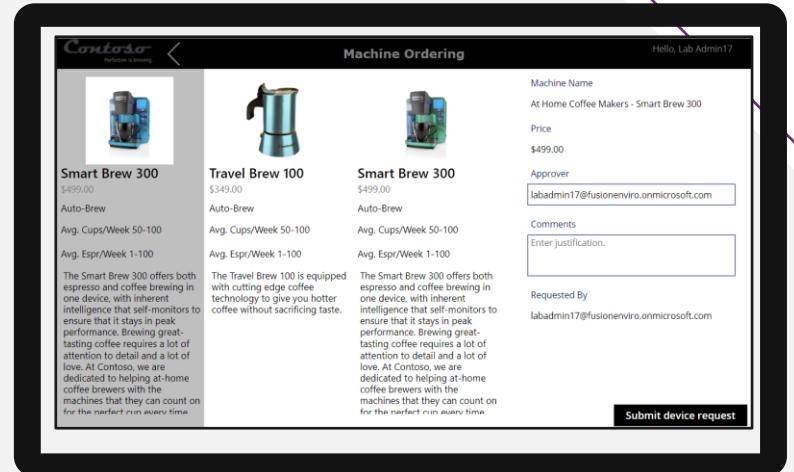
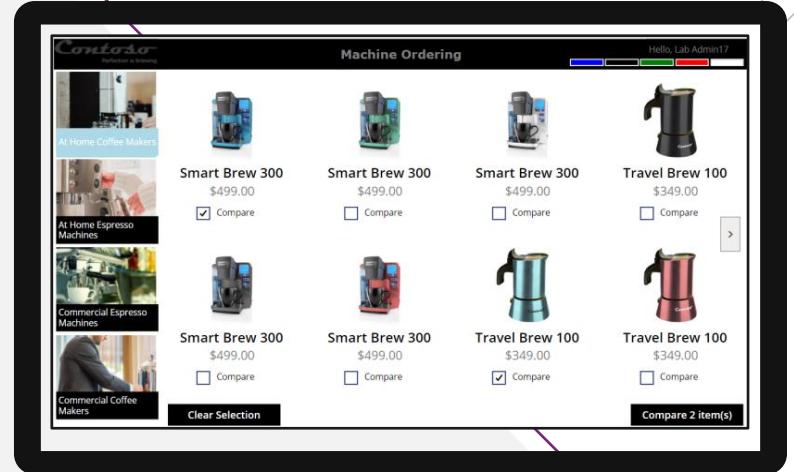
Filter data



Work with multiple screens and navigation



Customize the user experience – galleries and controls





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