

Importante!

- ❖ Material elaborado pelo time de especialistas em Power Platform da Microsoft Brasil para ser utilizado em **demonstrações online para seus clientes**.
- ❖ O uso deste material é permitido **apenas para clientes** Microsoft que participaram da sua apresentação em ambiente online e para **fins de referência e/ou autoestudo**.
- ❖ Este conteúdo é de **propriedade intelectual da Microsoft**. Todos os direitos reservados.
- ❖ Este material utilizou como referência as funcionalidades da **Power Platform** disponíveis conforme a **documentação oficial** e previstas para lançamento em seu **guias de lançamento** na data de sua elaboração (ver slide de abertura). Como o conteúdo destas fontes é dinâmico, sempre consulta-las em caso de dúvidas.

Em caso de dúvidas ou questões acesse nosso site (Power Platform Connect)
<https://microsoft.github.io/powerplatformconnect/>

App and portal development with Power Platform

V2.3 from Mai 15, 2024

Agenda

The opportunity

A unified low-code platform

- About Power Platform
- AI features
- Responsible AI

Power Platform patterns of value

Power Platform deep dive

- Canvas App
- Dataverse and model-driven apps
- Power Pages

Next steps



The opportunity

Surging digital demand

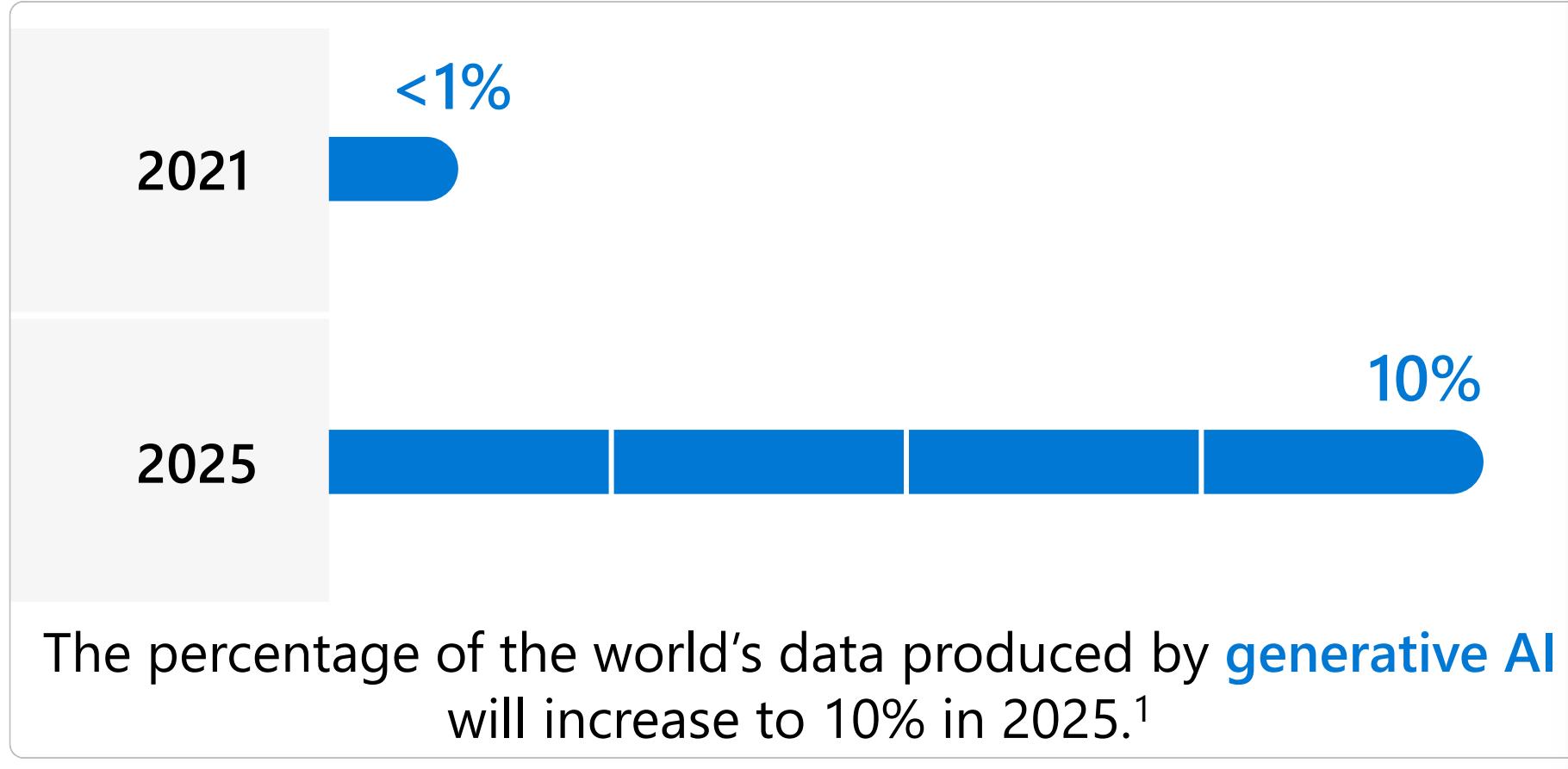


**new apps need to be built
by 2025**



**of digital work can be
automated with current tech**

The union of low code and AI is a game changer



65% +
More than
65% of app
development
will be
low-code by
2024.²

1. Source: Gartner® Press Release ,Gartner Identifies the Top Strategic Technology Trends for 2022, October 18, 2021. GARTNER is a registered trademark and service mark of Gartner, Inc. and/or its affiliates in the U.S. and internationally and is used herein with permission. All rights reserved.

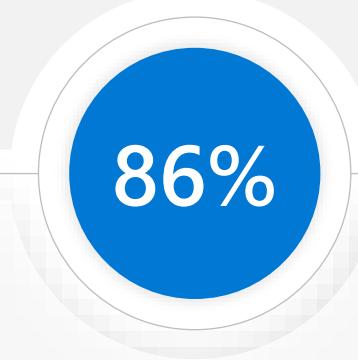
2. Source: Gartner 2019 Magic Quadrant for Enterprise Low Code Application Platforms

Not enough developers



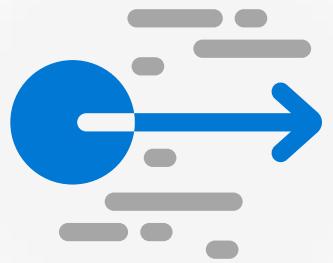
4M

developer shortfall



86%

of companies struggle to hire
tech talent



**Accelerate developers and
empower new makers**

Digital transformation is powered by people





About Power Platform

Our mission is to empower



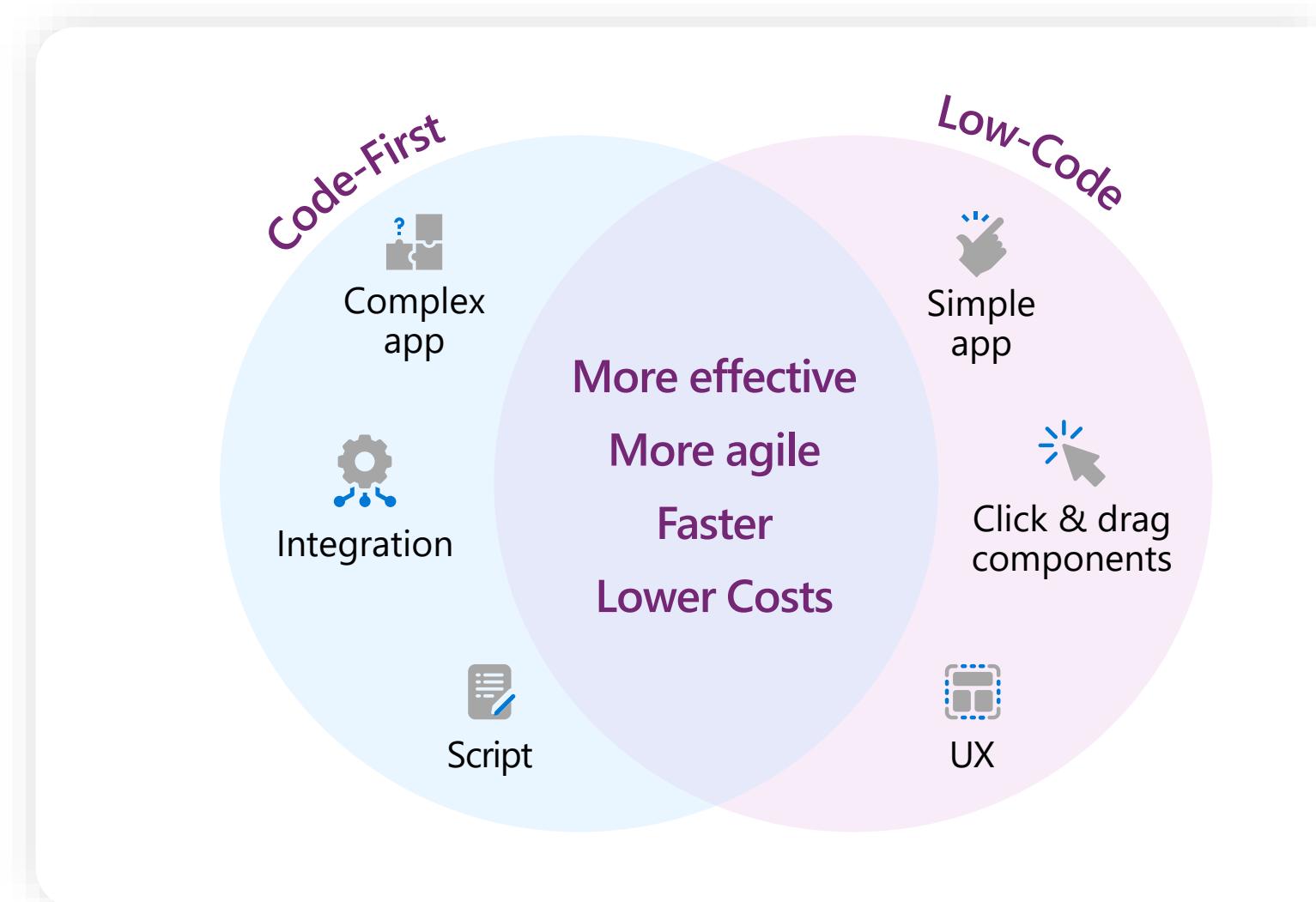
Every developer



Every level of the stack



Every solution



Microsoft Power Platform

Comprehensive platform to build solutions for business problems in fast and collaborative way



Power Apps

Application development



Power Automate

Process automation



Power BI

Business analytics



Copilot Studio

Intelligent copilots



Power Pages

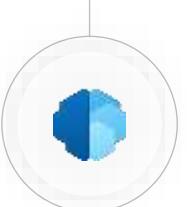
Business websites



Copilot
AI-Assisted development



**Data
connectors**



AI Builder



**Microsoft
Dataverse**



Power Fx



**Managed
Environments**

CONNECT TO ALL YOUR INTERNAL AND EXTERNAL DATA SOURCES

Over 1,000 Power Platform data connectors

Built-in connectivity to cloud services, content services, databases, and APIs

Seamless hybrid connectivity via the on-premises data gateway

Custom connectors as building blocks for citizen developers

Robotic Process Automation is the ultimate connector, if necessary



Develop Faster than Ever Before

Power Platform



Power BI
Business analytics



Power Apps
Application development



Power Automate
Workflow automation



Copilot Studio
Customize & create copilots



Power Pages
Secure external business websites



AI Builder
AI assistance at your users' fingertips



Copilot
AI-Assisted development



GitHub

Azure services



Analysis services



API management



Function apps



Kubernetes services



Logic apps



Cognitive services



Bot Services



Power Platform Developer Tools



Azure DevOps

Azure / Office data services



Azure OpenAI



Dataverse



Microsoft Graph



SQL Database



SQL Data Warehouse



Cosmos Database

Every
Developer
(Low Code)

Code-First
developer



Visual Studio



VS Code

Fusion team (all devs and business users/makers)

Easily publish your custom APIs to Power Platform

Azure API Management enables professional developers to publish their backend service as APIs, and easily export these APIs to the Power Platform

With this capability, citizen developers can use the **Power Platform** to create and distribute apps that are based on internal and external APIs managed by API Management.

[Learn more](#)

The screenshot shows the Azure API Management interface for creating a connector to the Power Platform. The left sidebar lists various management options: APIs, Products, Subscriptions, Named values, Backends, API Tags, and Power Platform. The 'Power Platform' option is highlighted with a red box. The main right-hand pane is titled 'Create a connector' and contains sections for selecting an API and a PowerApps environment. The 'API' section shows 'Demo Conference API' selected. The 'PowerApps' section shows 'Personal Productivity' selected as the environment to publish to, and 'MyAPIMConnector' entered as the API display name. A checkbox for 'Create subscription key connection parameter' is checked. At the bottom are 'Create' and 'Back' buttons.

Disconnected Solutions

Increased complexity

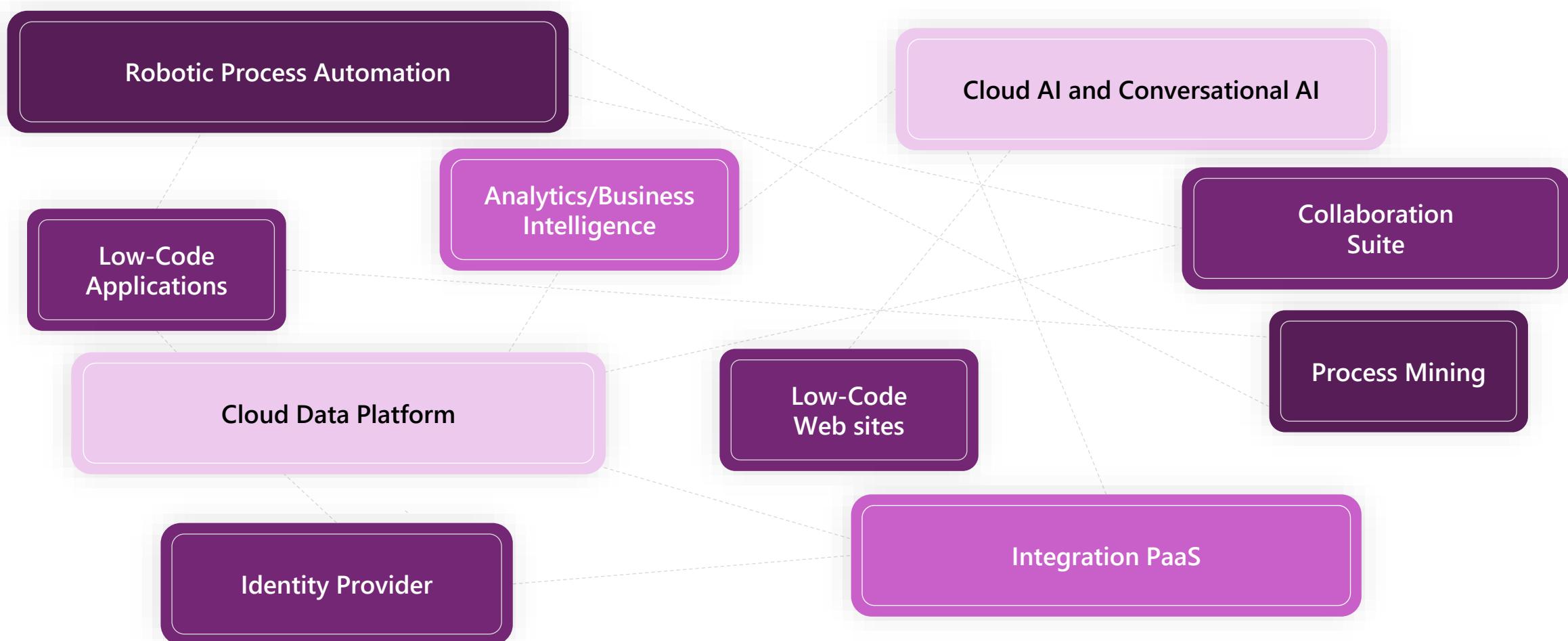
disparate admin/security/governance

Higher TCO

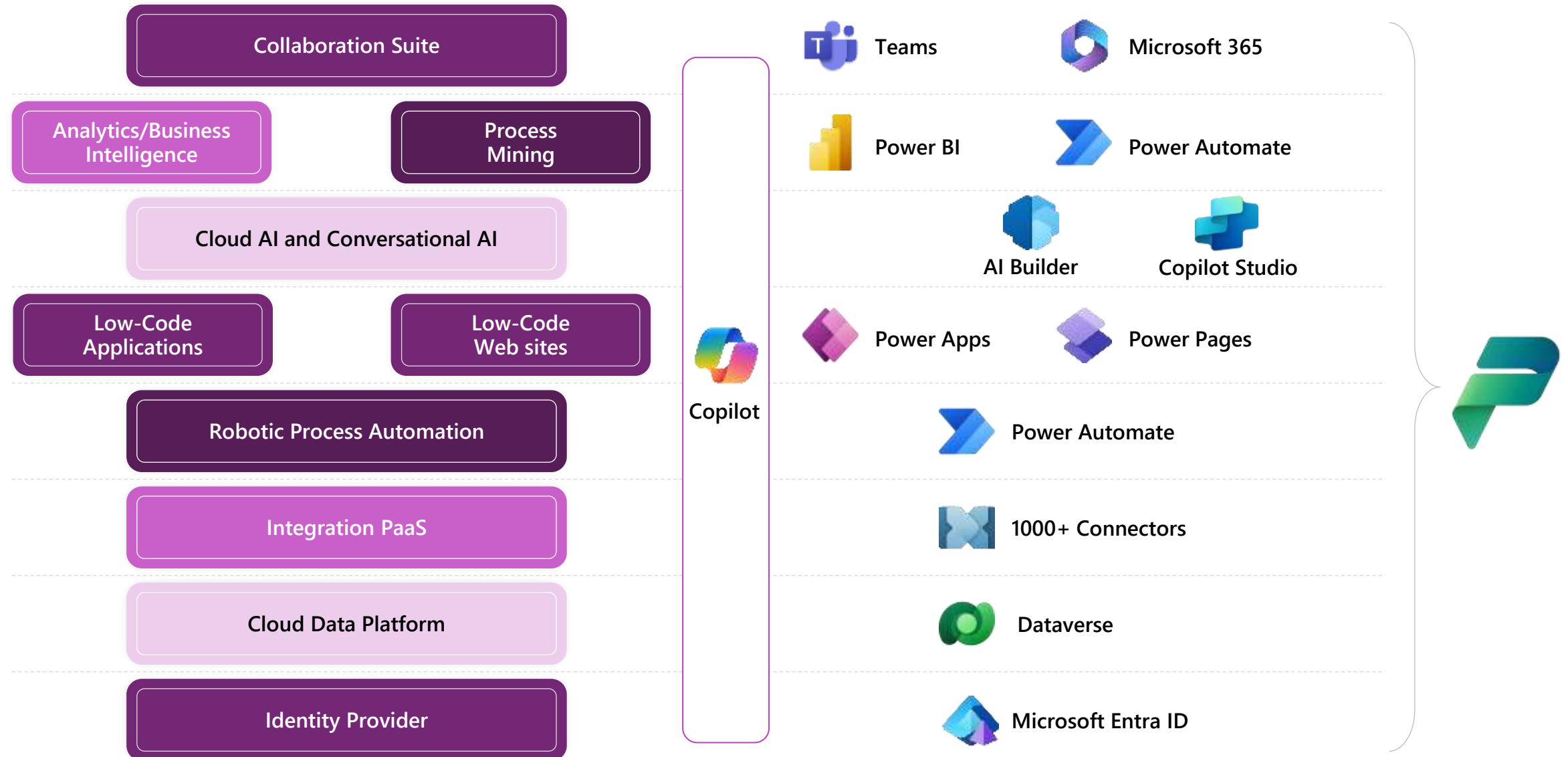
multiple vendors = multiple bills

Additional support considerations

multiple specialist experts



The Microsoft Approach – An Orchestrated Platform



Building with Power Platform pays off

Using all available tools and resources to build solutions faster brings great returns

140%

Return on Investment
over 3 years

45%

Reduction in app
development cost

58%

Increased revenue

Results are for a composite organization based on interviewed customers. The Total Economic Impact of Power Apps commissioned study conducted by Forrester Consulting, August 2022

[Read the study](#)

Customers save time and reduce costs with Power Platform!



~20%

expected decrease in
rent spend

[Read more](#)



1/3

of the cost to develop & maintain the
solution with previous system

[Read more](#)



\$3M

savings in one app for optimizing
refinery furnace trimming

[Read more](#)



10x

faster solution development than
centralized IT solutions

[Read more](#)



Seattle Visiting Nurse Association

97.5%

faster client
processing time

[Read more](#)



~95%

reduced
lead time

[Read more](#)



Power Platform and AI

Era of the AI Copilot

Augmenting human productivity and ingenuity

The role of technology

From

To

Tools

Helpful “copilot”

Data input / output

Conversational interface, using
natural language

Perform linear tasks

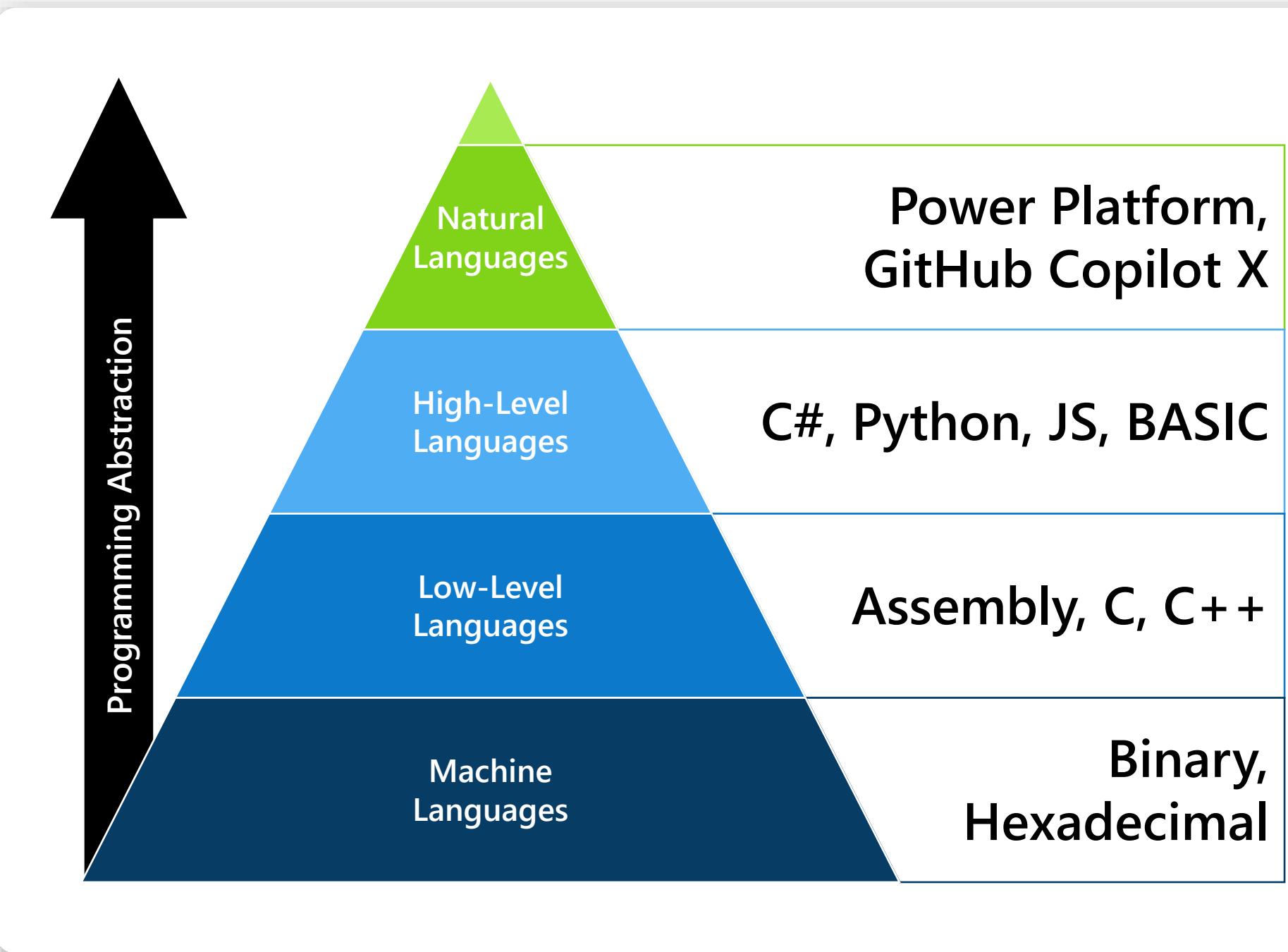
Performs complex, generative
tasks

Follow commands

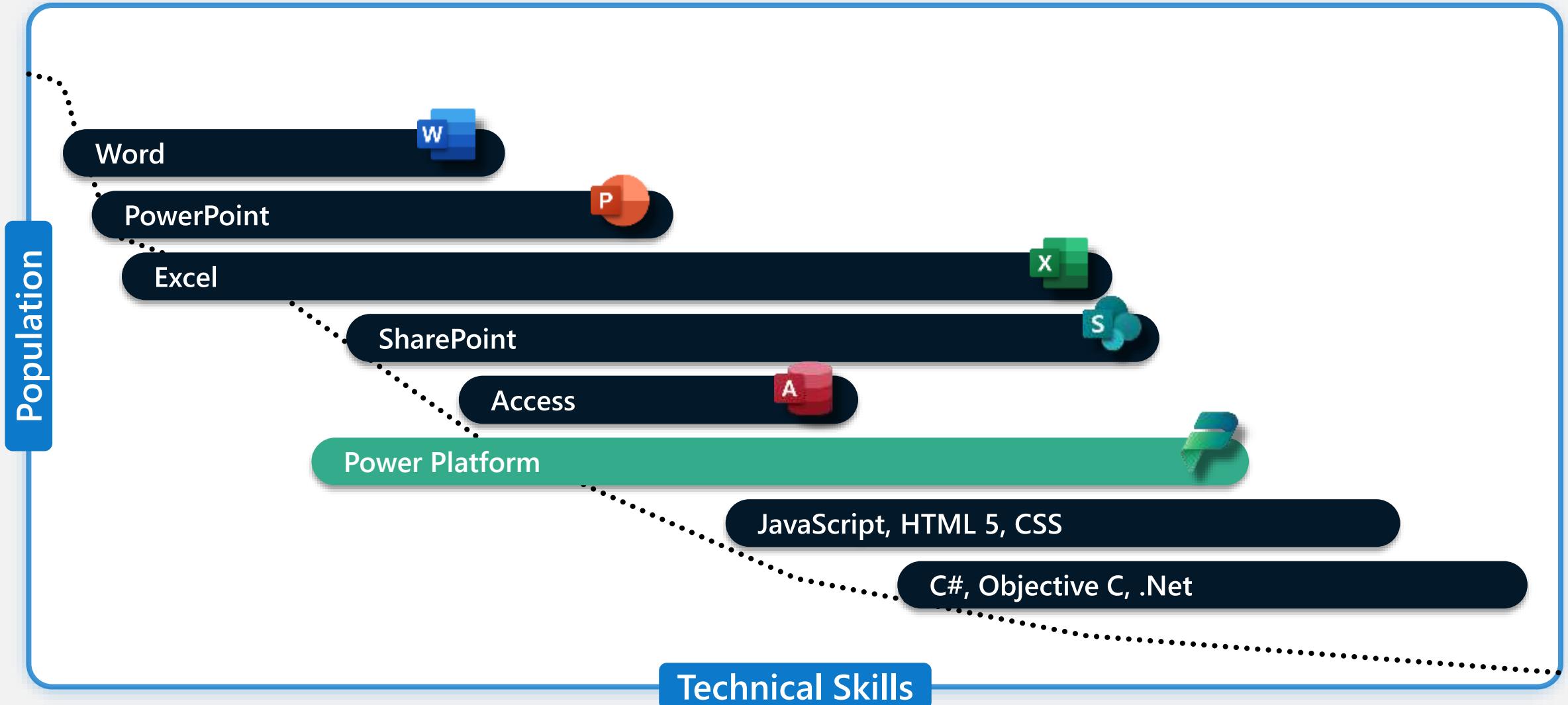
Iterate ideas and output, with
human in the loop



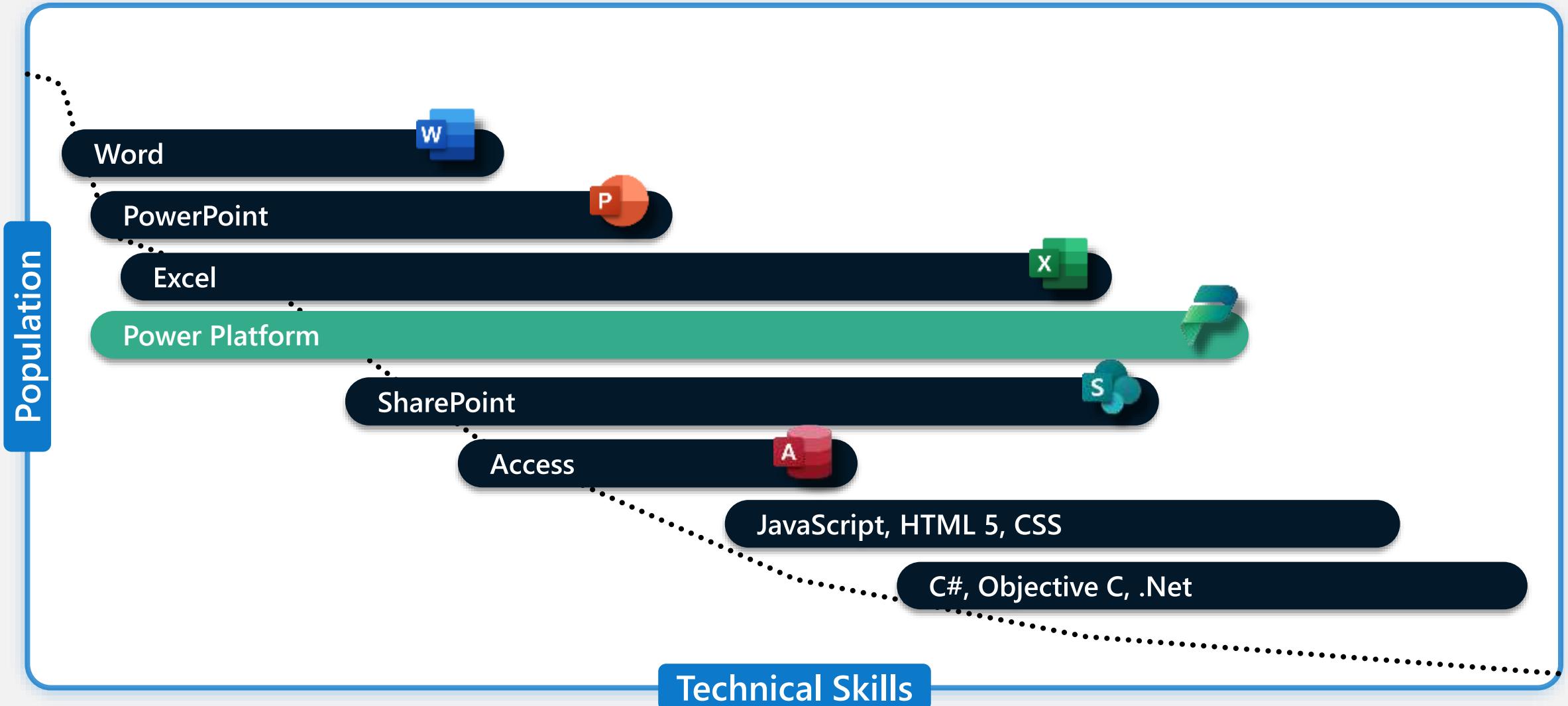
**With Copilot in
Power Platform,
your language is
now a
Programming
Language**



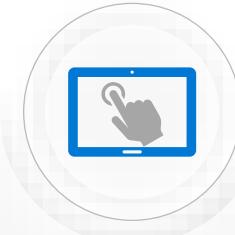
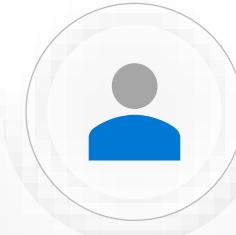
Low Code Adoption



Low Code Adoption + AI Copilot



What AI does for Power Platform



Next generation AI for developers

- NEW** Copilot in Power Platform
- NEW** Generative AI templates
- NEW** AI assisted data integration

Next generation AI for users

- NEW** AI generated analytics
- NEW** Generative answers
- NEW** Generative actions

AI in Power Platform

Easier to make. Richer to use.



Power Apps

- [Copilot - Natural Language to App \(Generally Available\)](#)
- [Power FX Ideas \(Generally Available\)](#)
- [Express Design \(Public Preview\)](#)
- [Excel to Canvas App \(Generally Available\)](#)
- [Custom Copilot Control \(Limited Preview\)](#)
- [Generative actions/plugins \(Public Preview\)](#)
- [Customization with Copilot Studio \(Public Preview\)](#)



Power Automate

- [Copilot - Natural Language to Cloud Flow \(Generally Available\)](#)
- [Cloud flows designer \(Generally Available\)](#)
- [Format data by Examples \(Generally Available\)](#)
- [Copilot for Desktop Flows and Scripts \(Public Preview\)](#)
- [Create and run flows from ChatGPT \(Generally available\)](#)
- [Copilot to analyze automation activity \(Public Preview\)](#)
- [Copilot experiences in Process Mining \(Public Preview\)](#)



Copilot Studio

- [Copilot - Generative Building \(Generally Available\)](#)
- [Generative Answers \(Generally Available\)](#)
- [Azure conversational language understanding \(Generally Available\)](#)
- [Generative Answers sourcing documents \(Public Preview\)](#)
- [Generative Actions \(Public Preview\)](#)
- [Extend Copilot for M365 \(Public Preview\)](#)
- [Plugin Builder \(Public Preview\)](#)
- [Prompt Builder \(Public Preview\)](#)



Power Pages

- [Copilot - Natural Language to Site \(Public Preview\)](#)
- [Generate forms with Natural Language \(Public Preview\)](#)
- [Contextual chatbots \(Public Preview\)](#)
- [AI to write code \(Public Preview\)](#)



Power BI (now part of Microsoft Fabric)

- [Copilot - Natural Language to Reports \(Public Preview\)](#)
- [Azure AI Studio integration \(Public Preview\)](#)
- [Write prompts for Copilot report pages \(Public Preview\)](#)
- [Enhanced Q&A with Copilot \(Public Preview\)](#)
- [Write prompts for Copilot narrative \(Public Preview\)](#)
- [Natural Language to DAX Quick Create \(Generally Available\)](#)



AI Builder, Managed Environments, Dataverse

- [Azure OpenAI models with Templates \(Public Preview\)](#)
- [Power Platform Advisor \(Public Preview\)](#)
- [Excel to table in Dataverse \(Generally Available\)](#)
- [AI generated App Descriptions \(Public Preview\)](#)
- [ALM Deployment Notes \(Generally Available\)](#)
- [AI Models \(Generally Available\)](#)
- [Dataverse and AI \(Limited Preview\)](#)



Responsible AI

Microsoft and OpenAI

OpenAI is an AI research and deployment company. Azure OpenAI Service brings OpenAI API + Azure enterprise-level security, compliance, and regional availability.

 Microsoft

Power Platform | Microsoft 365 | Dynamics 365 | Partner Solutions



Azure AI

Scenario-Based Services - Applied AI Services



Bot Service Cognitive Search Form Recognizer Video Analyzer Metrics Advisor Immersive Reader

Customizable AI Models - Cognitive Services



Vision Speech Decision Language

ML Platform



Azure Machine Learning

 OpenAI

 OpenAI

ChatGPT
Conversational AI chatbot

GPT-3
Understand and generate natural language

Whisper
Automatic speech recognition

CodeX
Understand and generate code

DALL-E
Creating images from text

Microsoft and OpenAI

OpenAI is an AI research and deployment company. Azure OpenAI Service brings OpenAI API + Azure enterprise-level security, compliance, and regional availability.

	Azure OpenAI Service	OpenAI
Security & Data Privacy	Enterprise Security, RBAC, Customer-Managed Keys	Basic Security
Compliance	SOC2, ISO, HIPAA, CSA STAR	None
Reliability	Azure SLA	No SLA
Responsible AI	Built-in, enterprise-grade, low latency moderation, and harm prevention	Separate Safety Classifier (adds latency)
Holistic Solution	OpenAI Models, Complete AI Solution, and a Complete PaaS	Advanced LLM & Image Generation, Basic Speech
APIs	REST APIs + Python, C#, etc. SDKs	REST APIs + Python SDK

[Azure OpenAI Service](#)

Enterprise Grade AI

Enterprise Security

Your data does not leave the **Microsoft ecosystem**

Microsoft **cannot see your data**, except for debugging or abuse

Your data respects existing **permissions models**

Azure security, enterprise promises, compliance

Published availability **SLA**

Responsible AI

Your data is not used to train AI for **other customers** or for ChatGPT

Content moderation

Hallucination filter

Fairness and inclusive policies

Red-teaming and adversarial testing

Governance

Respects **existing security and privacy guardrails**

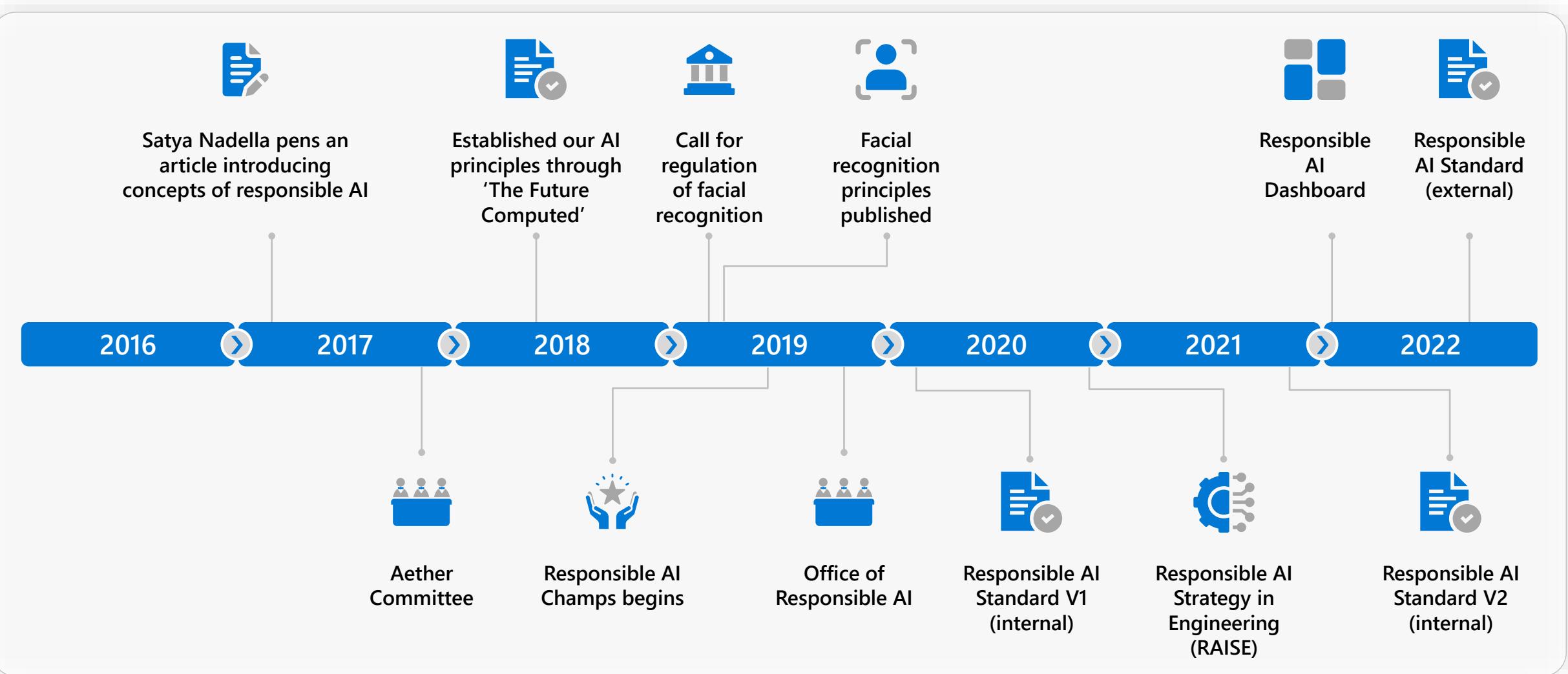
Data loss prevention policies to safeguard data

Analytics reports to provide admin visibility

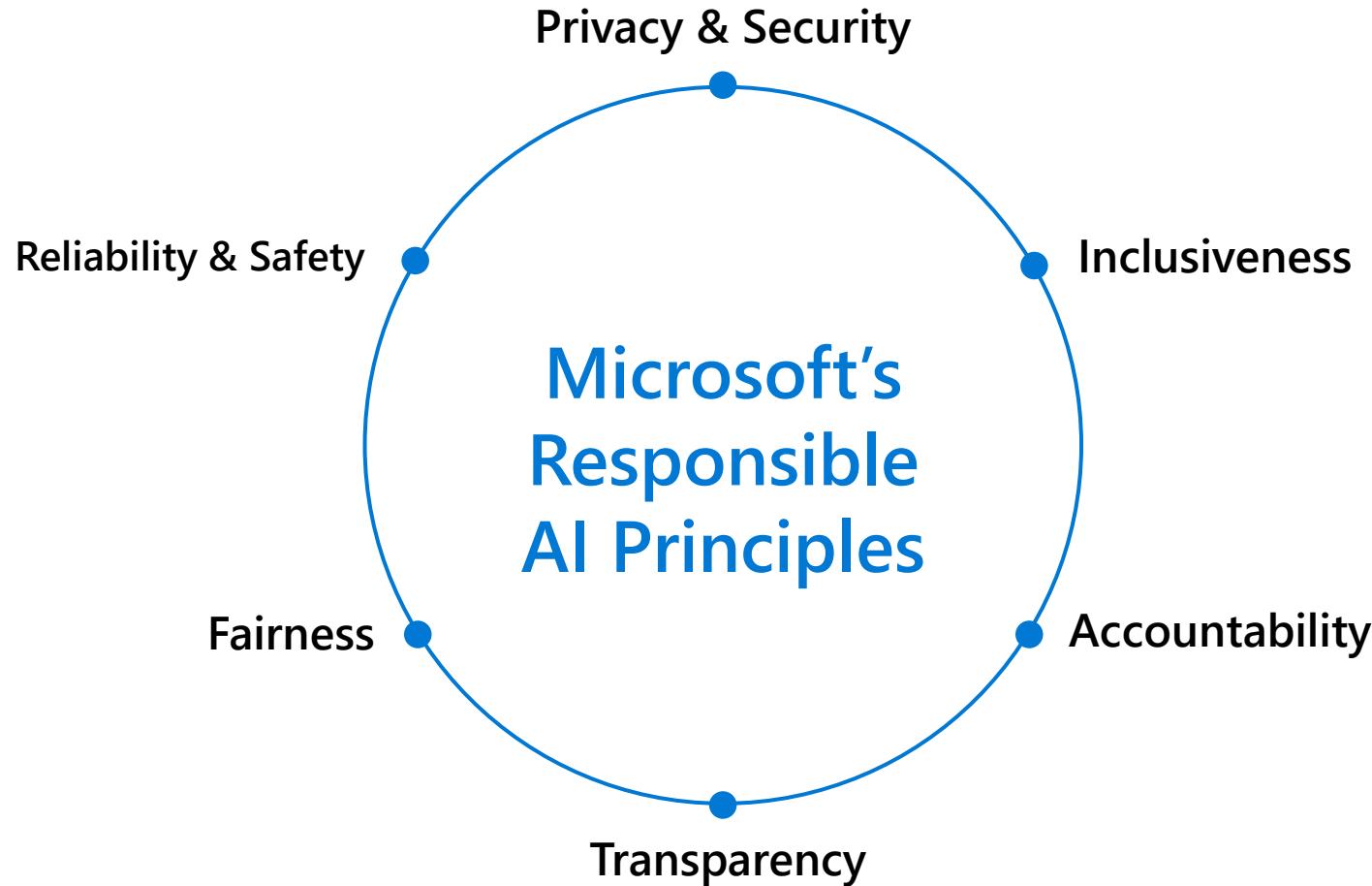
Data sharing is opt-in only

Data, Privacy, & Security

Microsoft's Responsible AI journey

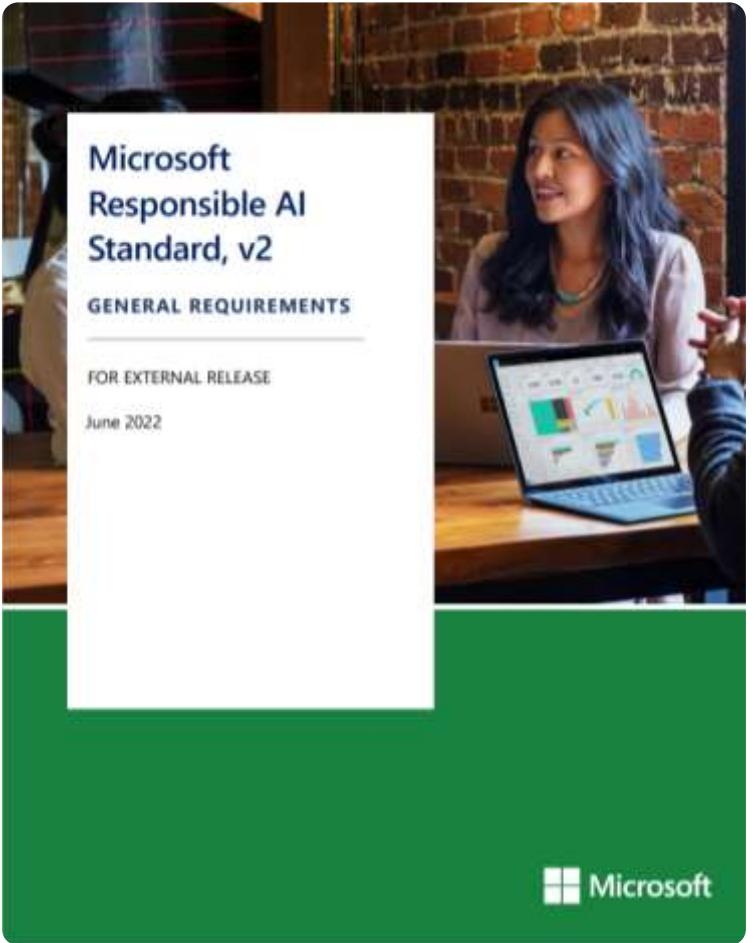


Microsoft's Responsible AI principles



Building blocks
to enact principles





Rules

Responsible AI Standard



Records

Our practice of **Responsible AI by Design** – the proactive ways in which we guide the design, build, and testing of AI systems



Establishes

A durable framework for the maturing practice of responsible AI and evolving regulatory requirements



Reflects

Our deeper exploration of what our six AI principles mean and the steps that must be taken to uphold them

Establish a responsible AI strategy
at [Aka.ms/AIBS](https://aka.ms/AIBS)

Design, build, and manage your AI
solution at [Aka.ms/RAIresources](https://aka.ms/RAIresources)

Power Platform patterns of value

Power Platform Patterns of Value

Why IT chooses Power Platform



Agility

Create rich apps, automations, and bots fast with AI Copilot and low-code tools.



Governance

View, control, and manage policies, usage, onboarding, ALM via Managed Environments.



Security

Built-in Identity and user management, DLP, encryption, compliance, and privacy.



Responsible AI

AI that is fair, reliable, safe, private, secure, transparent, accountable, and inclusive.



Pro Dev Friendly

APIs, Connectors, Custom Connectors, PCF controls, Azure DevOps, and Visual Studio support.



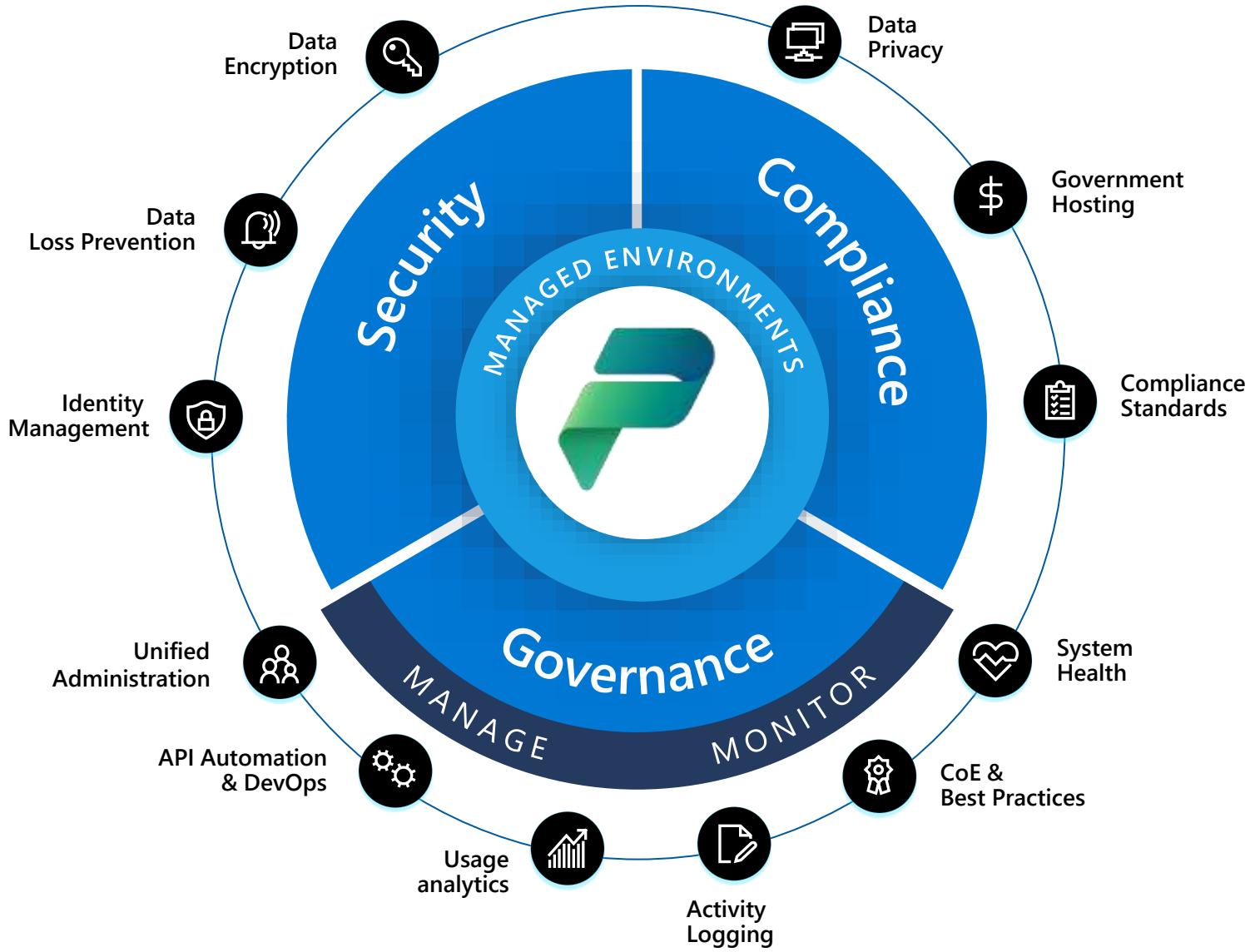
Accessibility

Build accessible and compliant apps easily for Windows, Web, iOS, and Android.

With Power Platform, organizations can reimagine business, IT, and developer **culture** and elevate all employees.

Power Platform Gartner 2023

Power Platform
offers
unmatched
governance and
security controls
at scale today



Gain Insight in the Power Platform Admin Center

The place to manage users, environments, policies and more



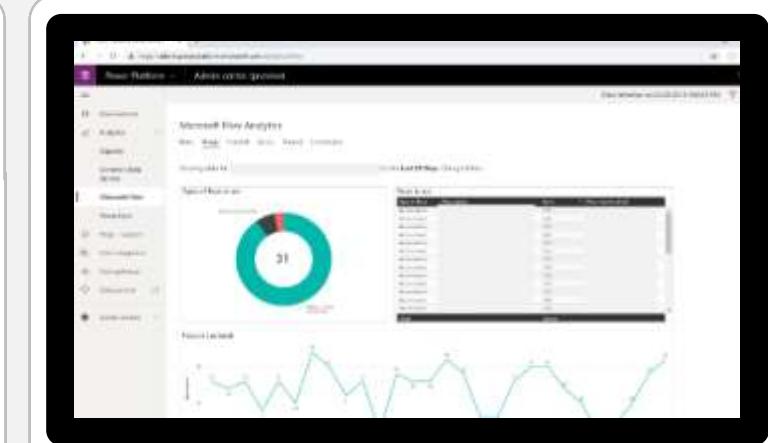
Power Apps analytics

A view into environment level usage, errors, service performance helps drive governance, and change management services to users.



Dataverse analytics

Quickly view adoption and user metrics for your organization right from the Power Platform Admin Centre.

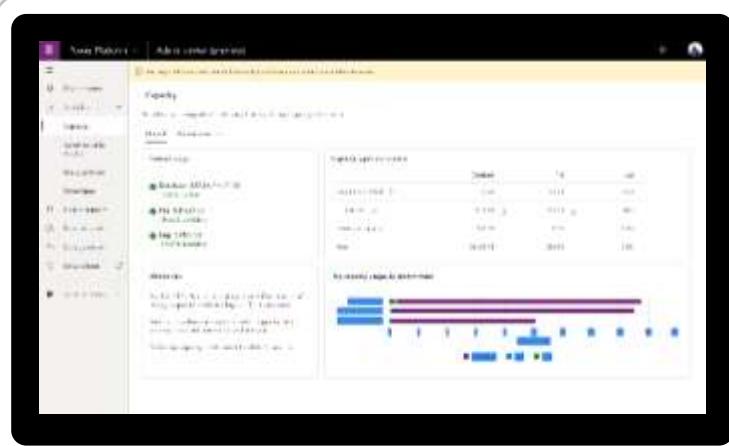


Power Automate analytics

Reports provide insights into runs, usage, errors, types of flows created, shared flows, and details on connectors

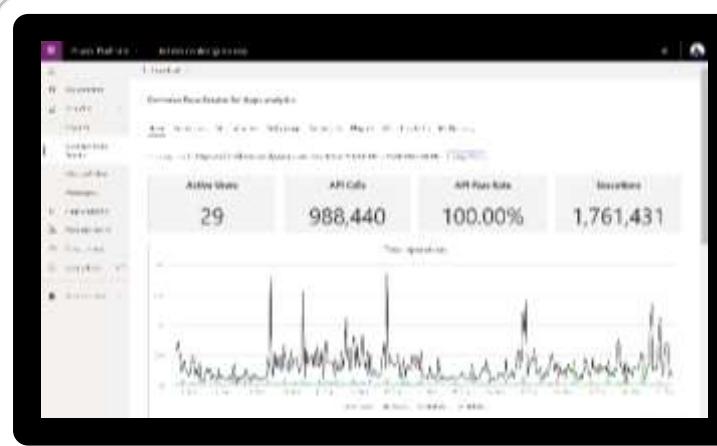
Providing analytics of adoption, usage, and health across Power Platform.

Understand What Happens in your Environments



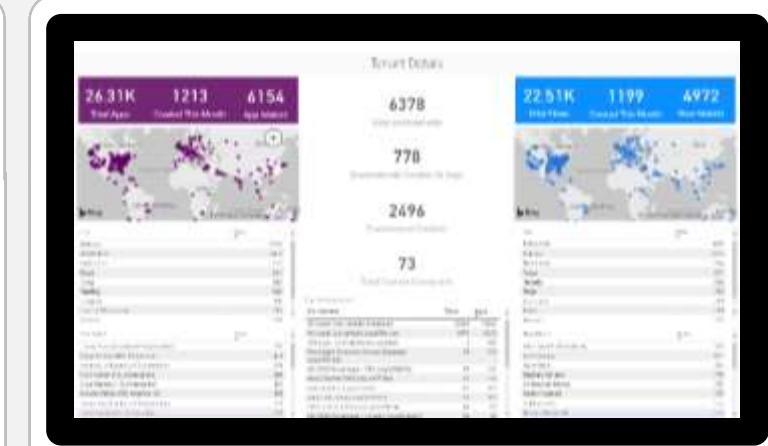
Admin insights provide deep visibility into usage and performance of applications

- Users
- Locations
- Capacity



Analytics track health and implementation metrics and help keep users on track

- Service performance
- Error reporting
- App usage



Personalize insights and drive action with custom Power BI reports and Power Automate

- All up view of what's being created
- Discover your champions
- Trigger automated actions

Managed Environments

More visibility, more control, all with less effort

Managed Environments is a suite of capabilities that allows admins to **manage Power Platform at scale** with more control, less effort, and more insights..

1

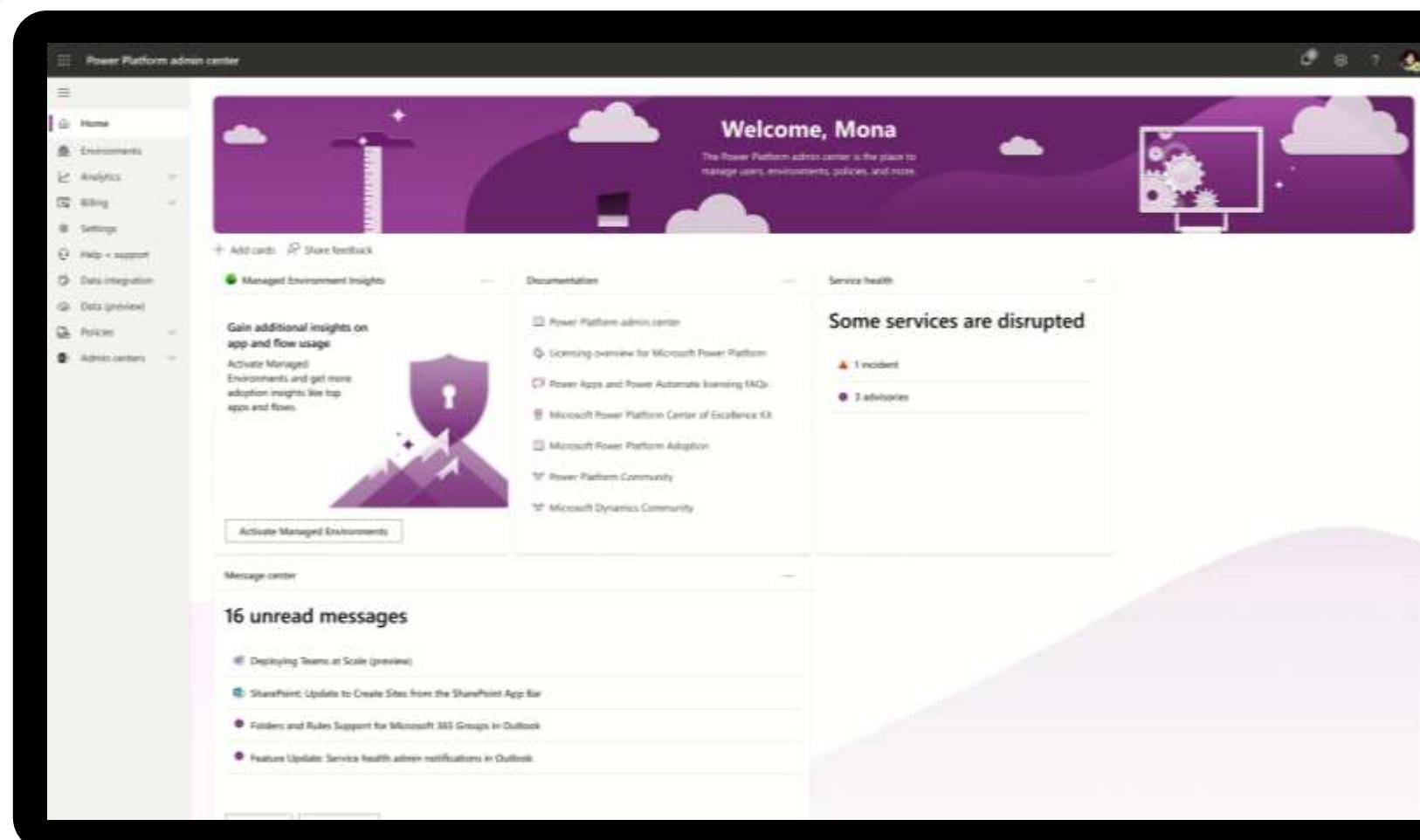
More visibility into the apps and automations in your organization

2

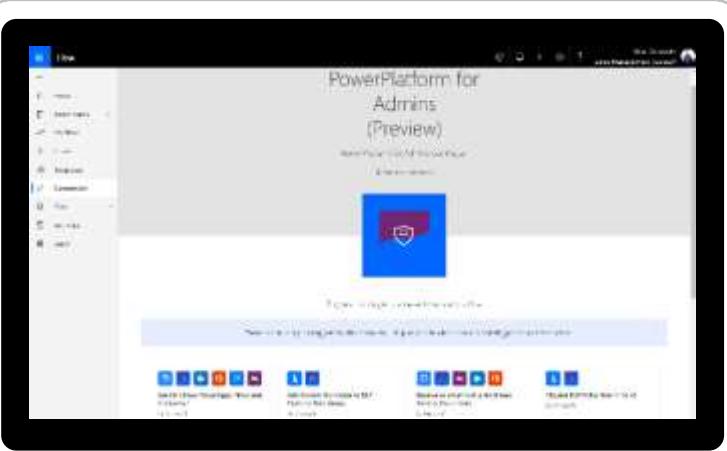
More control over which apps are deployed and who builds them

3

Less effort to manage and govern your entire application estate

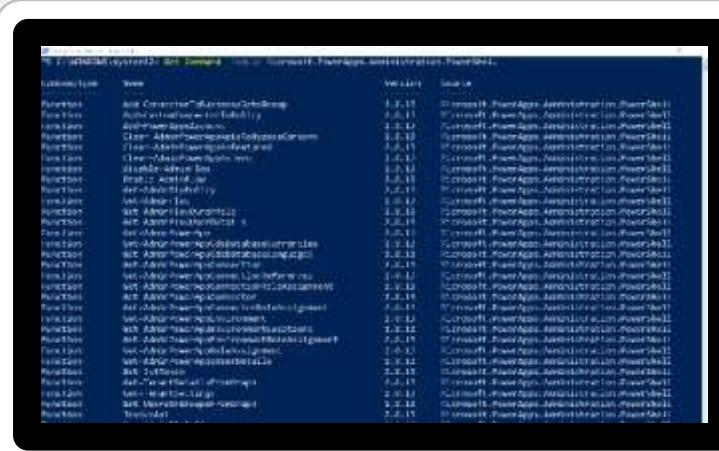


Automate Management and Control



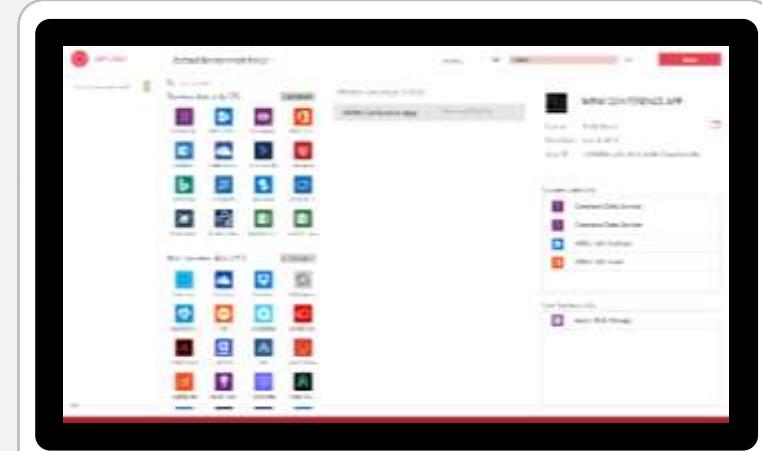
Power Platform management connectors

Automate management through the ease-of-use of Power Apps and Power Automate



PowerShell cmdlets

Script the automation you
need with the administrator and
maker cmdlets



Center of Excellence starter kit

A set of tools to help manage resources and information for a company get started with adopting the Power Platform

Power Platform Patterns of Value

How Business uses Power Platform



App Modernization
Update, rearchitect, and rebuild apps at scale and address backlog.



Business Agility
Improve processes and experiences for core systems: SAP, Oracle, Salesforce.



Accelerate Pro Development
Reduce time and effort in creating enterprise-grade apps.



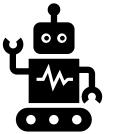
Enhance Employee Experience
Interact with business data with ease in Microsoft 365 and Teams.



Empower Departments
Enable departments to solve business challenges with IT governance.



Optimize Hyperautomation
End-to-end automation with RPA, DPA, AI, chatbots, more.



[Caterpillar](#)
Rental equipment turn around processing app reduced entire process to **1-day**

[Ernst and Young](#)
General ledger posting process connected to SAP yields **30% Cost reduction** from

[Blackmores Group](#)
Pro-code plus No-code practice reduced time to produce key supplier reports by **50%**

[American Airlines](#)
Frontline connected through Teams and Power Apps save **10 hours** of taxi time per day

[T-Mobile](#)
Employee led initiatives facilitated by Marketing team saves **\$4M+** from employee initiatives

[Pacific Gas & Electric](#)
Digital productivity program supported by Cognizant saved **75,000 hours** across organization

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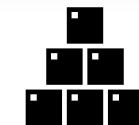
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Interact with business data with ease in Microsoft 365 and Teams.



Empower Departments

Enable departments to solve business challenges with IT governance.



Optimize Hyperautomation

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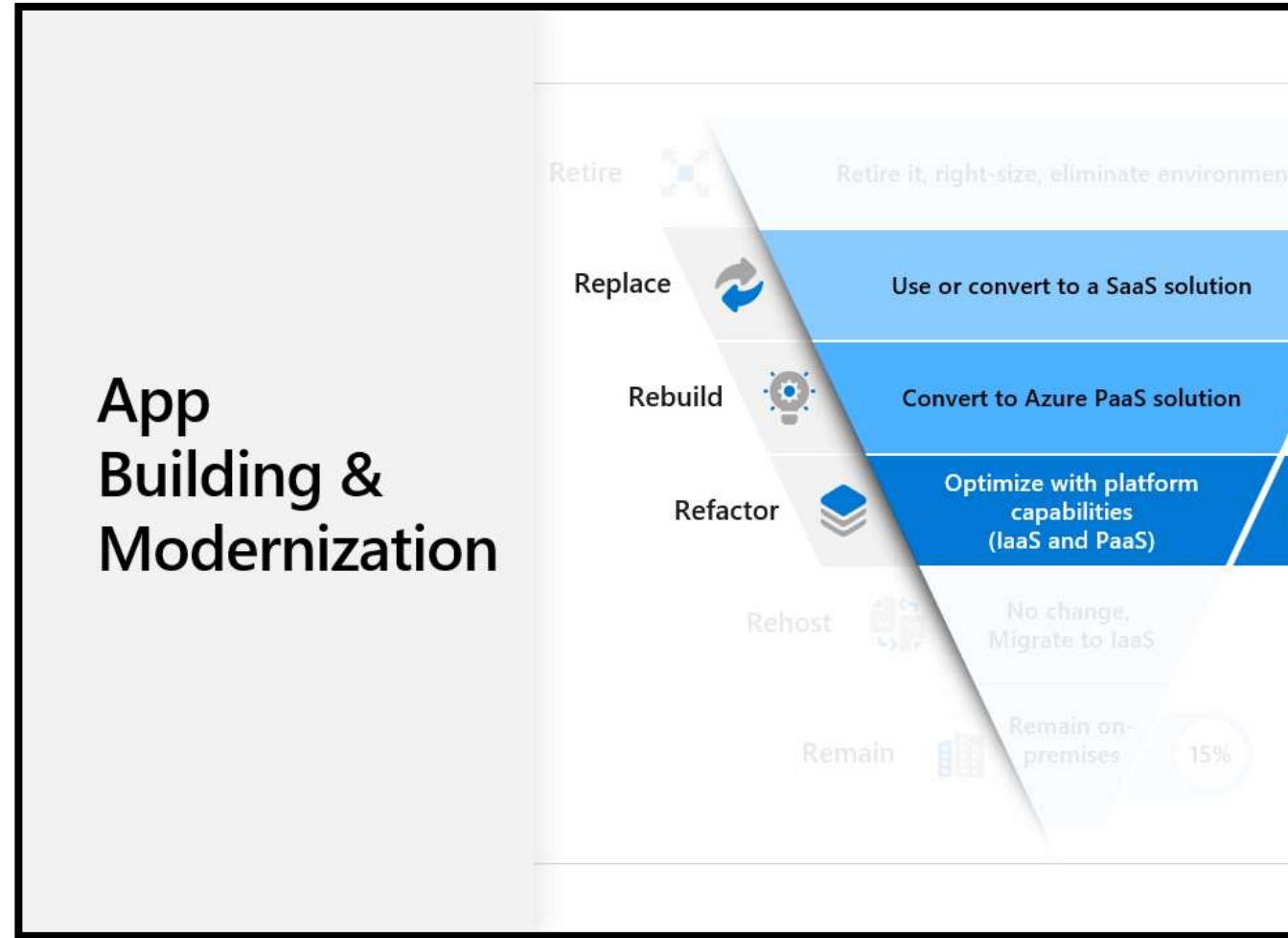
Additional recommended content

Power Platform patterns of value

Get more information about the scenarios for low-code adoption.

Section “**Additional slides / Patterns of value**” In
this presentation

App Building & Modernization



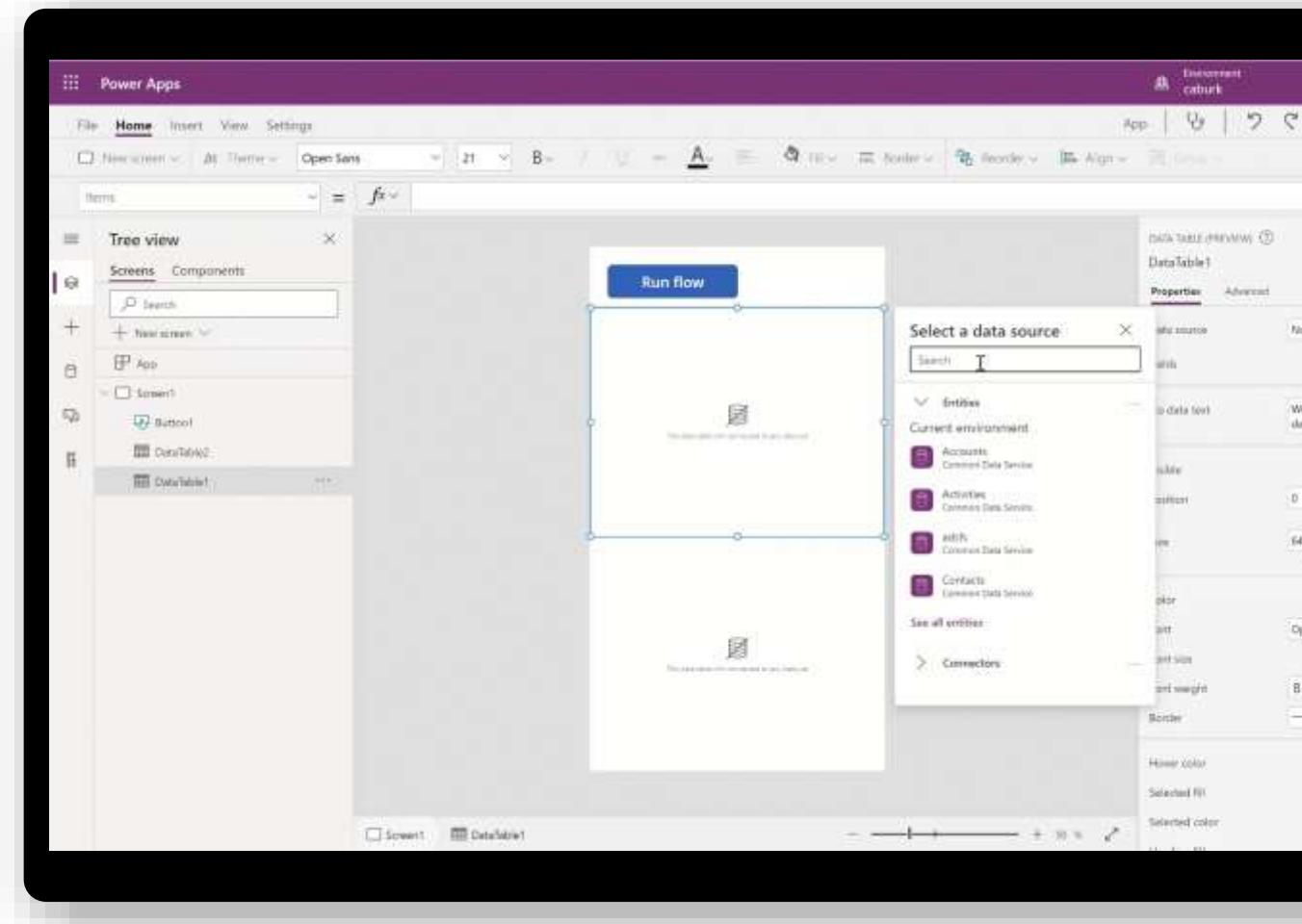


Power Platform deep dive

Canvas App

Power Apps – a plataforma low-code mais completa do mundo

- 1 Integração com **Azure**, **Visual Studio**, and **GitHub** permite que todos criem com as **ferramentas que mais usam**
- 2 Experiências assistidas por IA com **linguagem natural** para geração de fórmulas e aplicativos a partir de imagens
- 3 Componentes **nativos** para **mapas**, **sensores de dispositivos** e **realidade aumentada**
- 4 Customize com **Power FX**, linguagem de código aberto para **criar lógica** que é familiar para qualquer pessoa **que use o Excel**



Power Apps + Teams

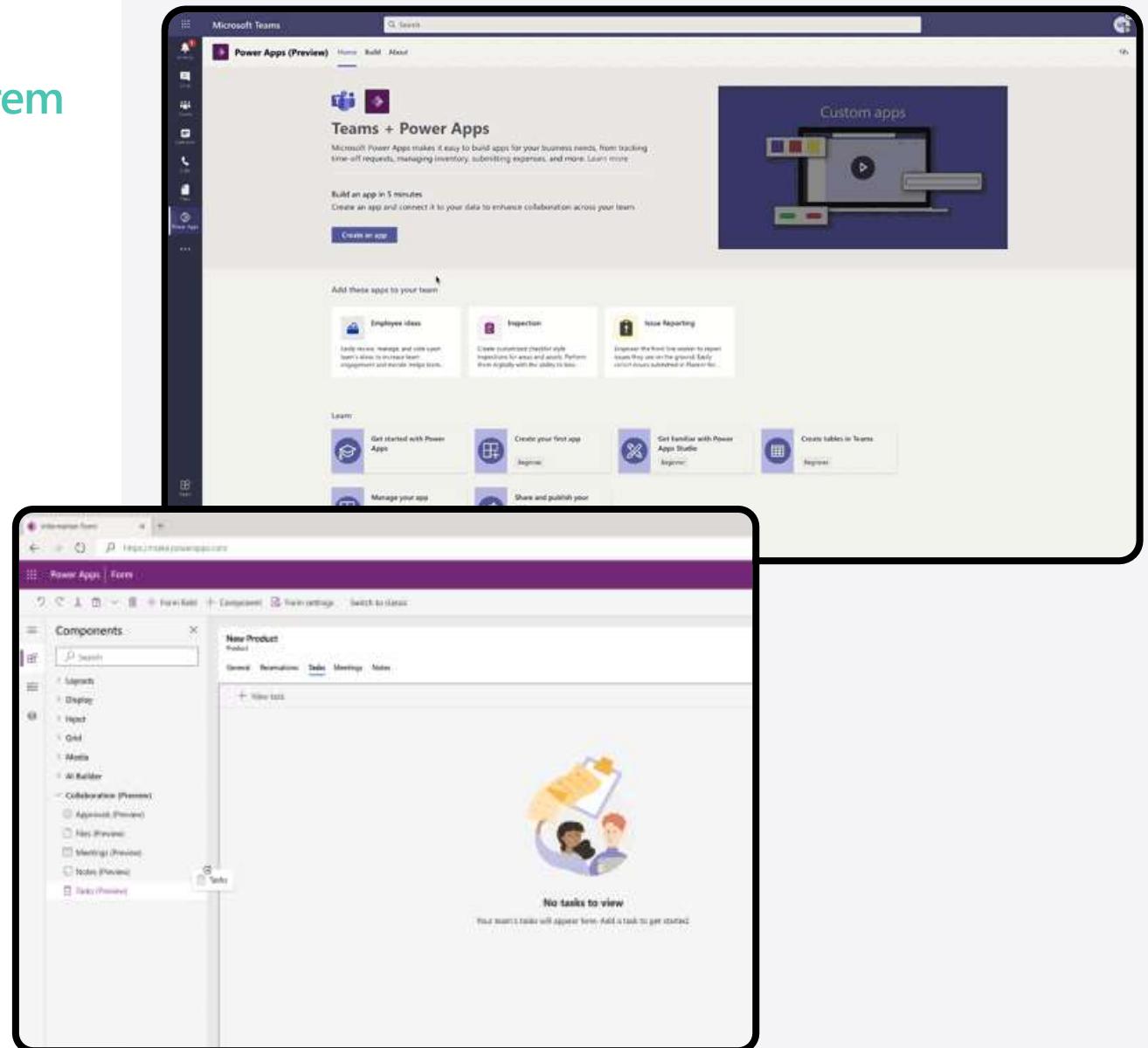
Para que os criadores se conectem e colaborem

Os criadores podem colaborar usando comentários e menções para trabalhar juntos em um aplicativo no **Modern App Designer**

Adicione notas, comentários e conversas com outras pessoas diretamente no seu bot, assim como faria no **Office**

Os comentários terão suporte no **Power Apps**, no **Power Automate** e no **Power Virtual Agents**

Conecte-se com outros criadores em sua organização por meio do **Maker Matching**



Crie rapidamente aplicativos da Web e móveis para resolver seus desafios de negócios.

Power Apps simplifica e acelera o desenvolvimento

1

O designer de aplicativos permite que você crie e implante aplicativos com **aparência profissional mais rapidamente**

2

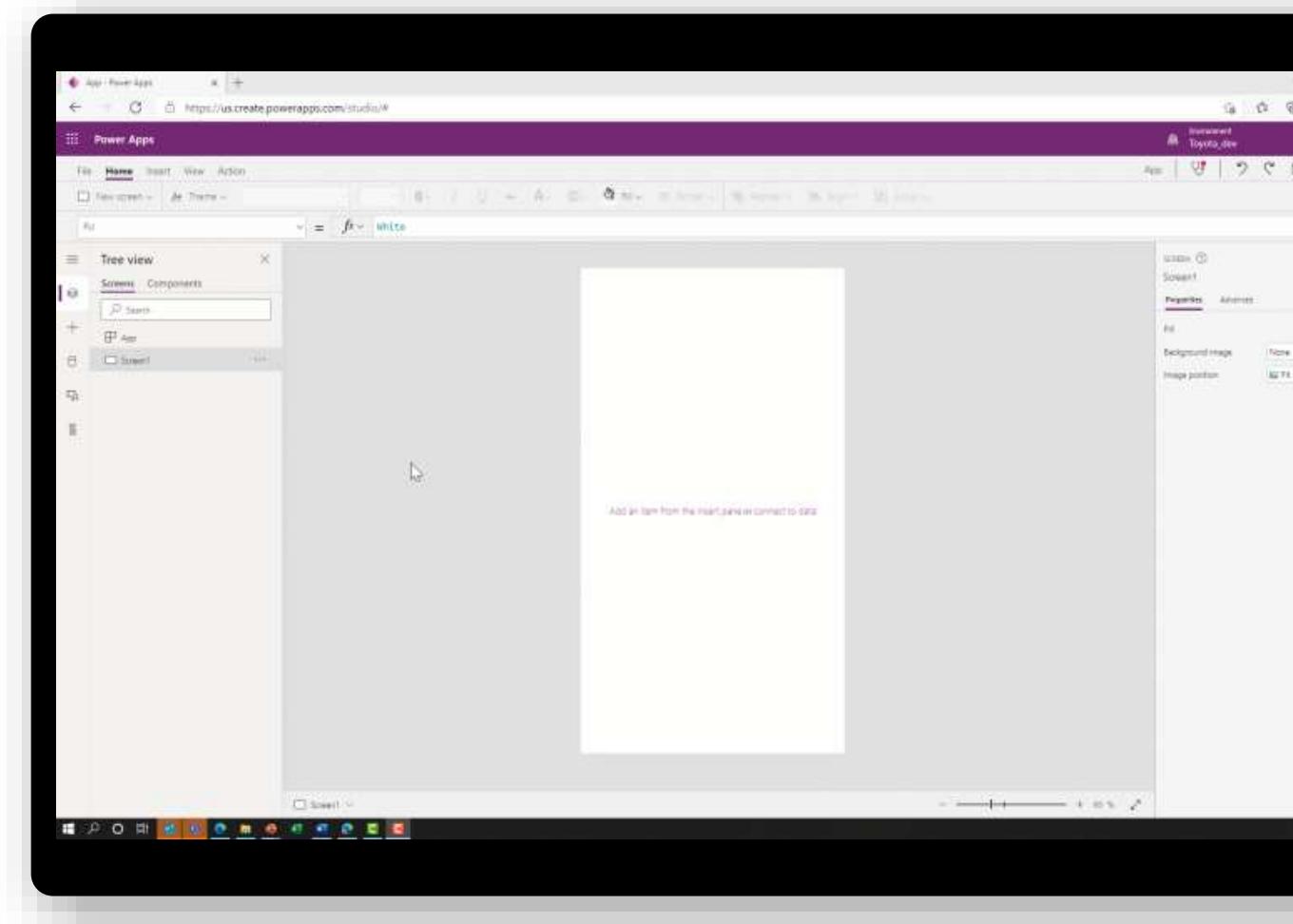
Aplicativos que funcionam em **múltiplos dispositivos: implante uma vez, use em qualquer lugar**

3

Conecte-se com seus aplicativos legados de forma rápida e segura

4

Integrado nativamente com Microsoft Teams, Office e Dynamics 365

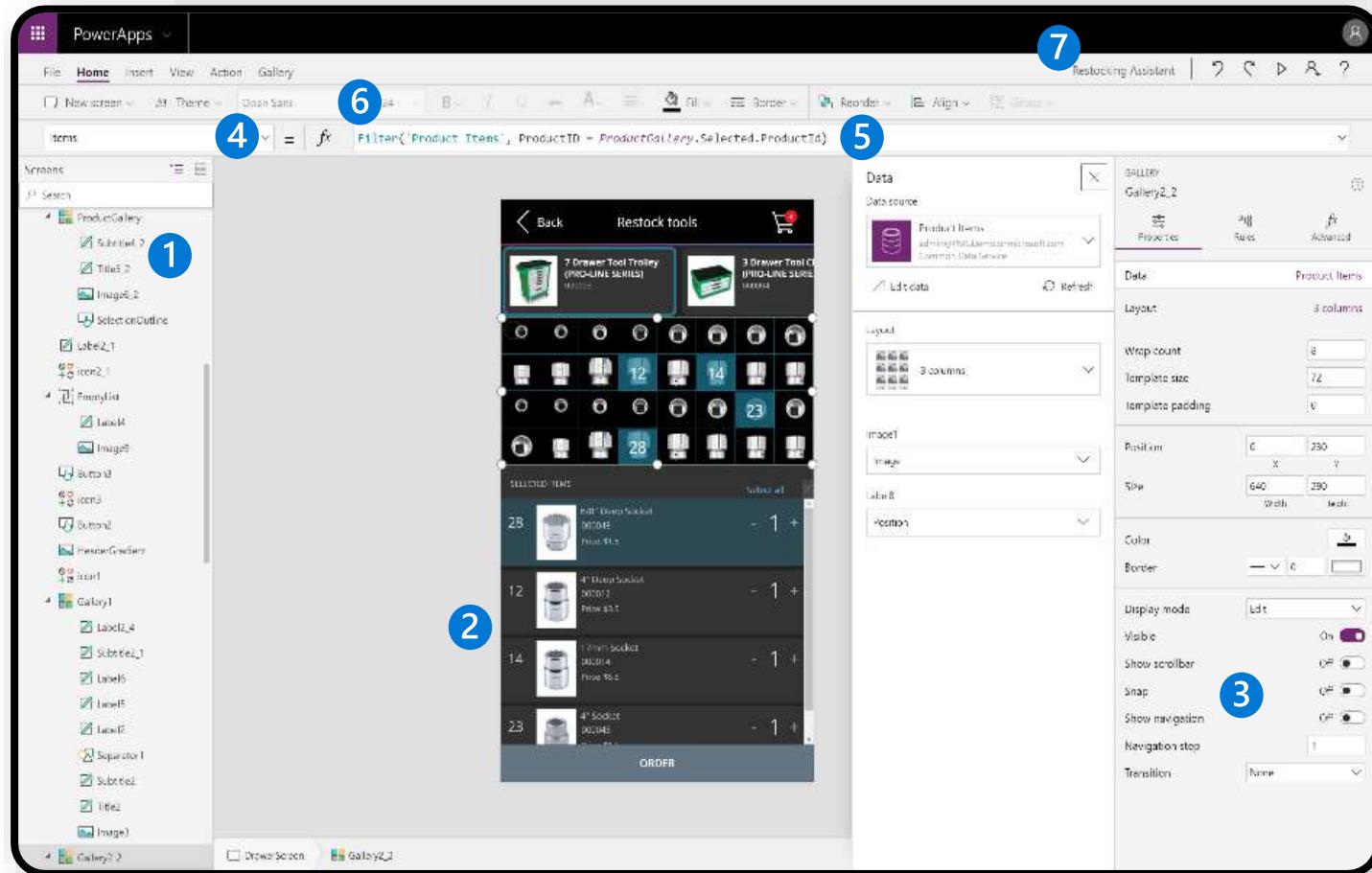


Power Apps Studio

Experiência para criar Power Apps

Sempre atualizado com as versões mais recentes e permite que você trabalhe em seu navegador, esteja você no trabalho ou em casa em um Mac ou PC

- 1 Barra de navegação
- 2 Canvas
- 3 Painel direito
- 4 Propriedades
- 5 Barra de fórmulas
- 6 Faixa de comandos
- 7 Itens adicionais



Microsoft Power Fx

A linguagem low-code para personalização lógica na Power Platform

```
fx ▾ Notify( "Hello, World!" )
```

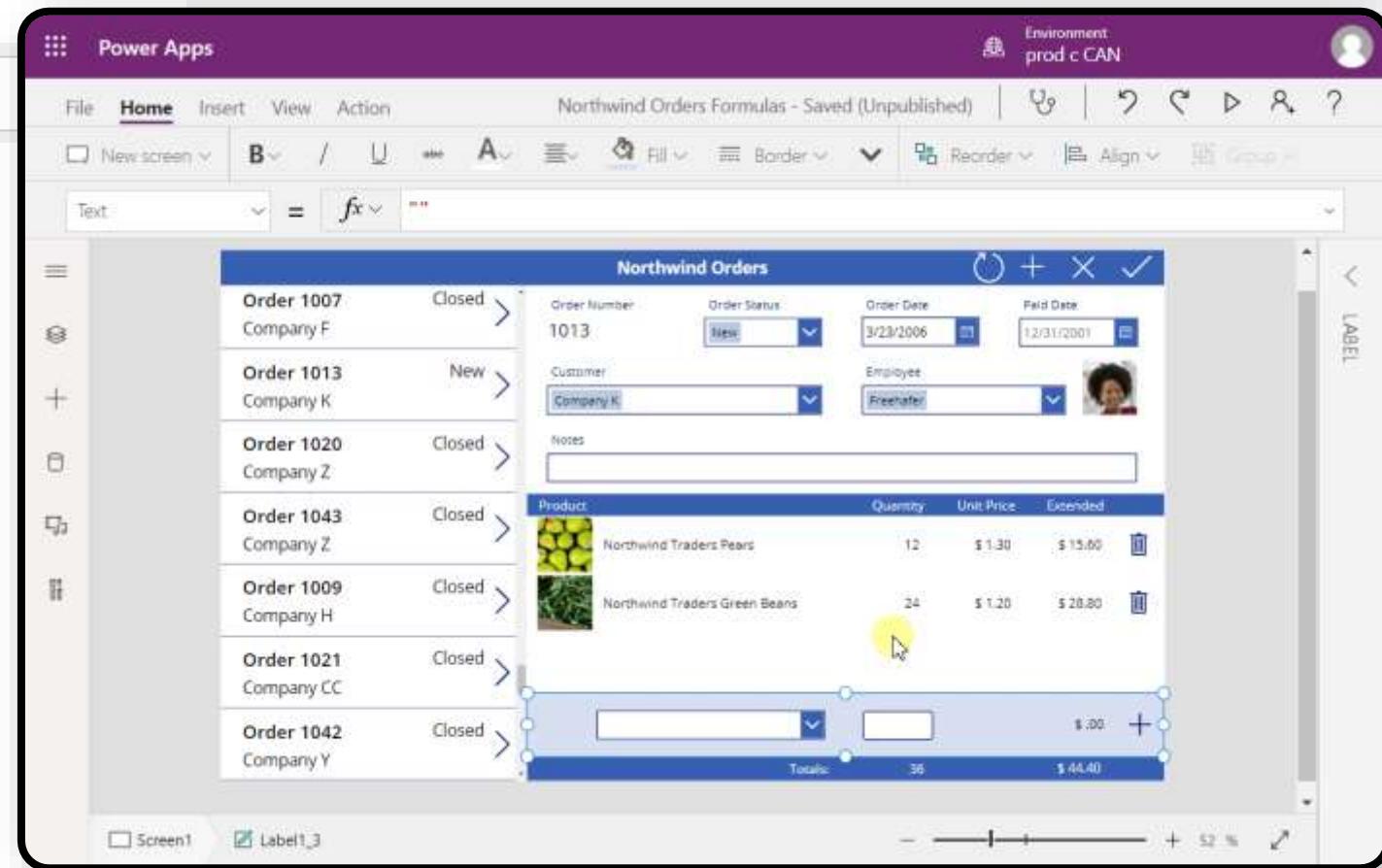
Uma linguagem de código aberto que estará disponível para todos usarem e implementarem

Expressa em texto, é uma linguagem low code com a qual os criadores podem trabalhar diretamente

Reduza as barreiras para começar com um idioma que aproveita o conhecimento dos usuários do Excel

Acelere com a simplicidade das fórmulas e adicione código onde for importante usando as ferramentas de desenvolvedor favoritas

Função ParseJSON para analisar cadeias de caracteres JSON em objetos e tipos PowerFx

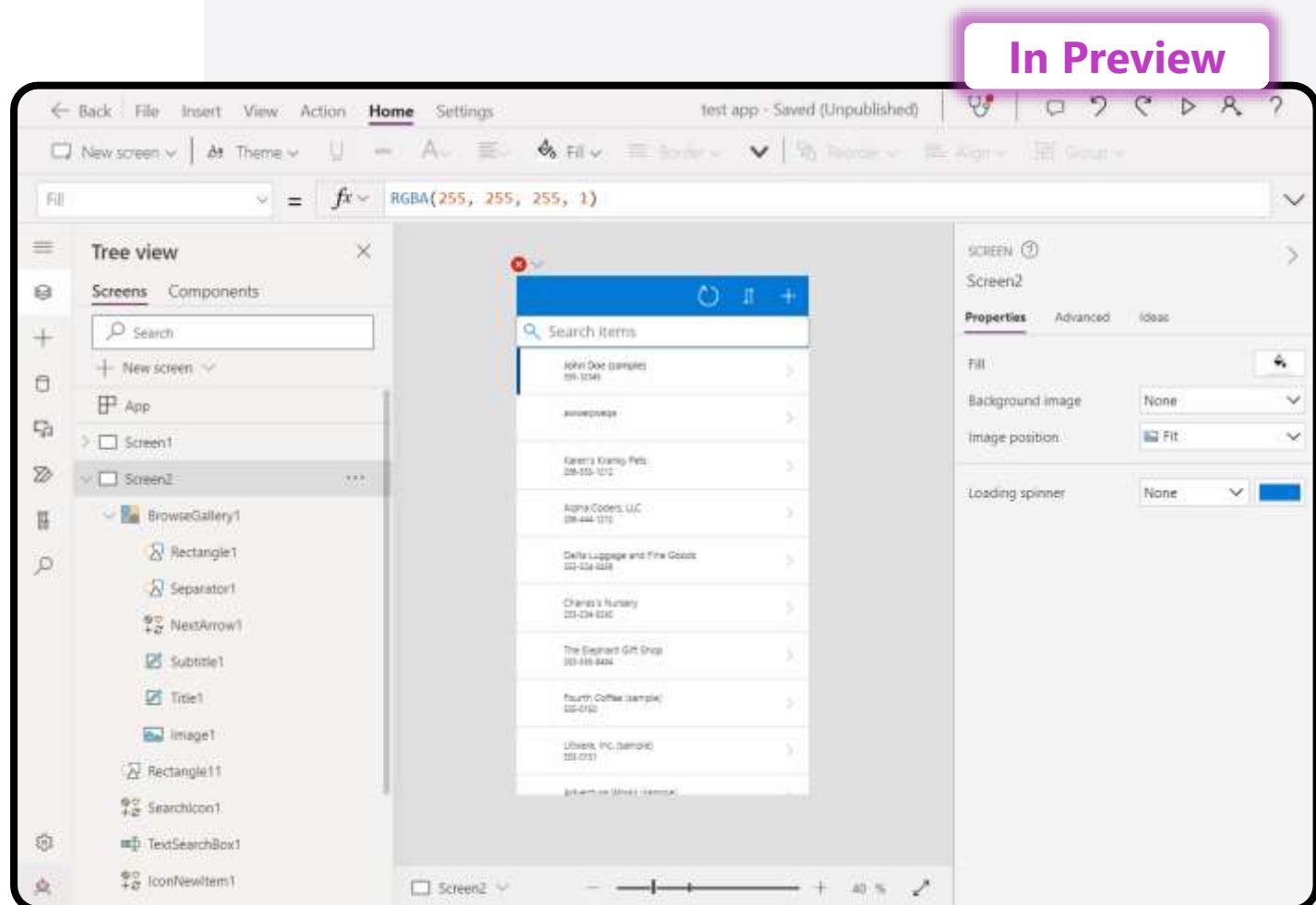


<https://powerapps.microsoft.com/en-us/blog/what-is-microsoft-power-fx/>

Formula Repair

Acelere sua verificação de erros com a ajuda de correções sugeridas.

Corrija parênteses e aspas ausentes, erros de digitação facilmente identificáveis, operadores ausentes e muito mais.



Named Formulas

Crie suas próprias propriedades de fórmula e pontos de reutilização

Defina funções sem parâmetros e use-as em qualquer lugar em um aplicativo Canvas

Ganhe tempos de carregamento mais rápidos

Criar e atualizar em um só lugar, usar em todos os aplicativos

The screenshot displays the Advanced Formula Environment interface. On the left, a table titled 'Employee' is shown with columns: Employee, Manager, DirectReports, and TotalReports. The data includes rows for Charles, Sandra, John, Tina, Julia, Fred, Kim, and Jane. The formula for 'TotalReports' is =TotalReports[@Employee]. On the right, the 'Editor' tab of the Advanced Formula Environment shows two Lambda functions:

```
1 DirectReports =
2   Lambda( Employee,
3     IfError(
4       Rows( Filter( Employees[[Employee]:[Manager]],
5             Employees[Manager] = Employee ) ),
6       0
7     );
8
9 TotalReports =
10  Lambda( Employee,
11    IfError(
12      Reduce( 0,
13        Filter( Employees[[Employee]:[Manager]],
14              Employees[Manager] = Employee ),
15        Lambda( Partial, Manager, Partial +
16          If( Employee <> Manager, 1 + TotalReports( Manager ), 0 )
17        )
18      ),
19      0
20    );
21
22
```

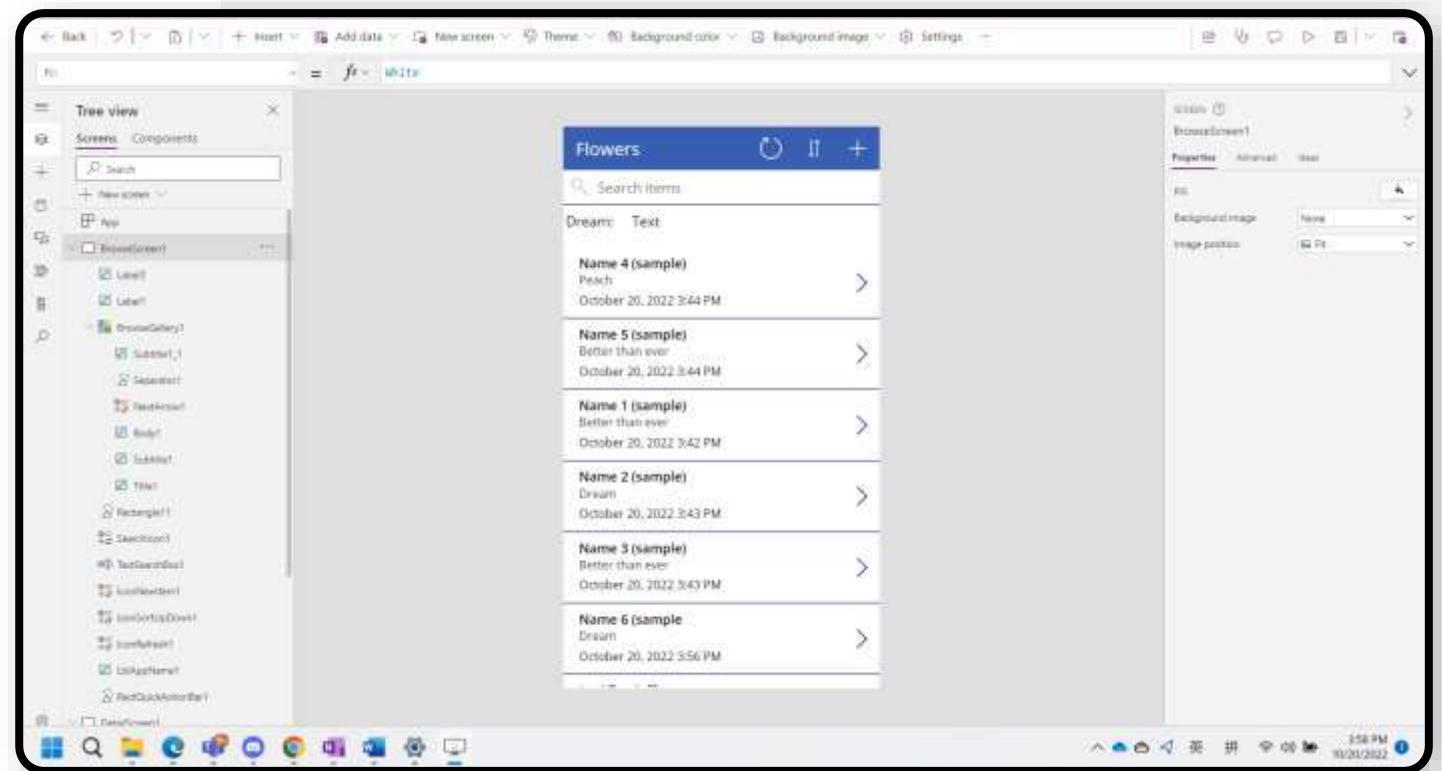
Power Apps Ideas

Use as sugestões de IA para acelerar seu processo de criação

Disponível em galeria, tabela de dados, rótulos, entrada de texto e controles suspensos

Ele agora suporta mais fórmulas, como contagem e formatação condicional

Powered by GPT-3 para compreensão de linguagem natural, e PROSE para programação por exemplos



Copilot in Power Apps

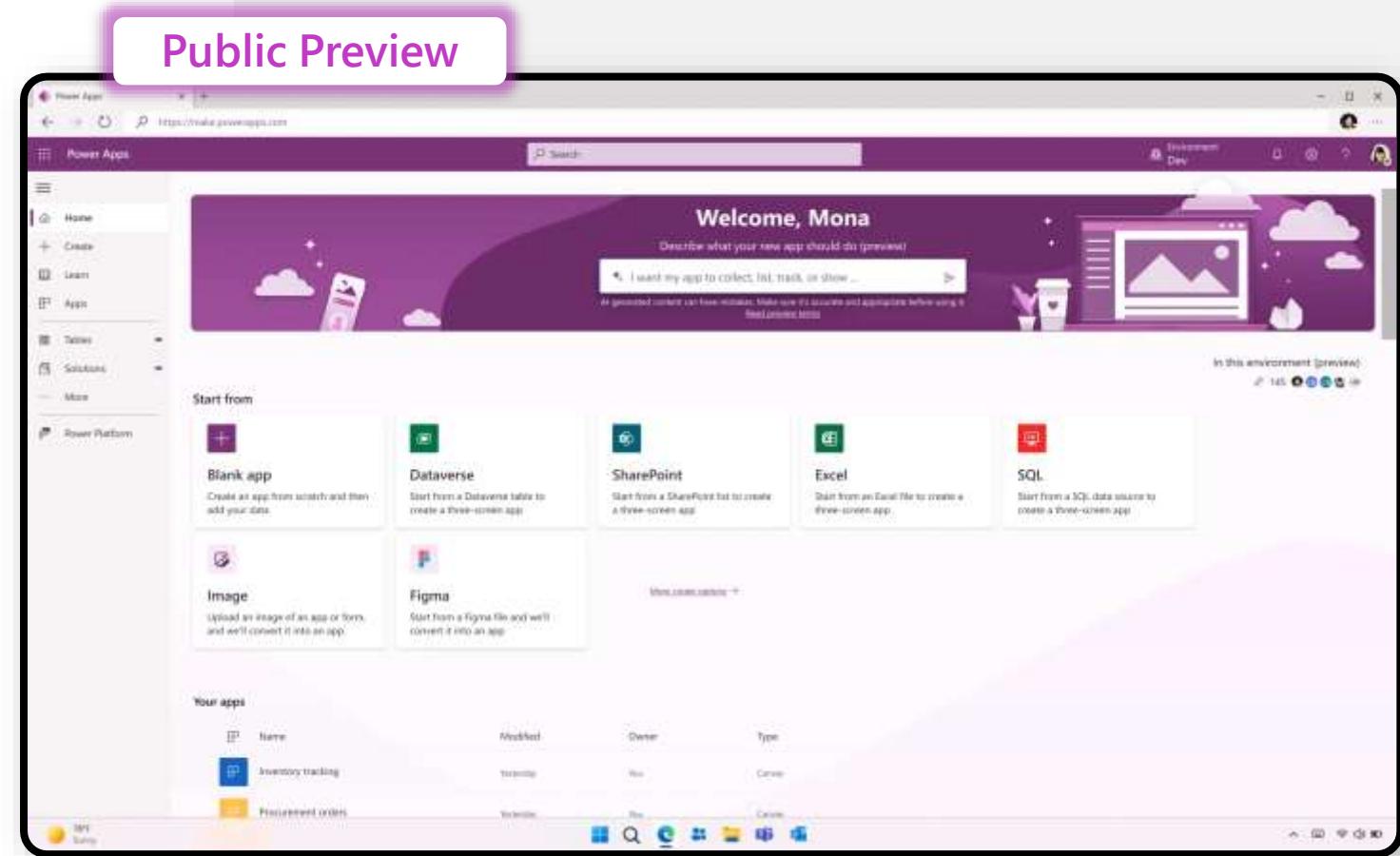
Descreva. A Power Apps cria

Crie novos aplicativos apenas descrevendo em linguagem natural o **que você precisa**

Conversação em vários turnos e várias etapas através do processo de criação de dados e personalização de UX

Os criadores podem criar um **aplicativo completo com Dataverse** começando com linguagem natural

Fácil de utilizar



Copilot in Power Apps

Copilot enhancements

Importando dados do Excel

A capacidade de entender dados não estruturados de arquivos do Excel como entradas e transformá-los em dados estruturados, como tabelas e aplicativos

Criar interfaces no aplicativo

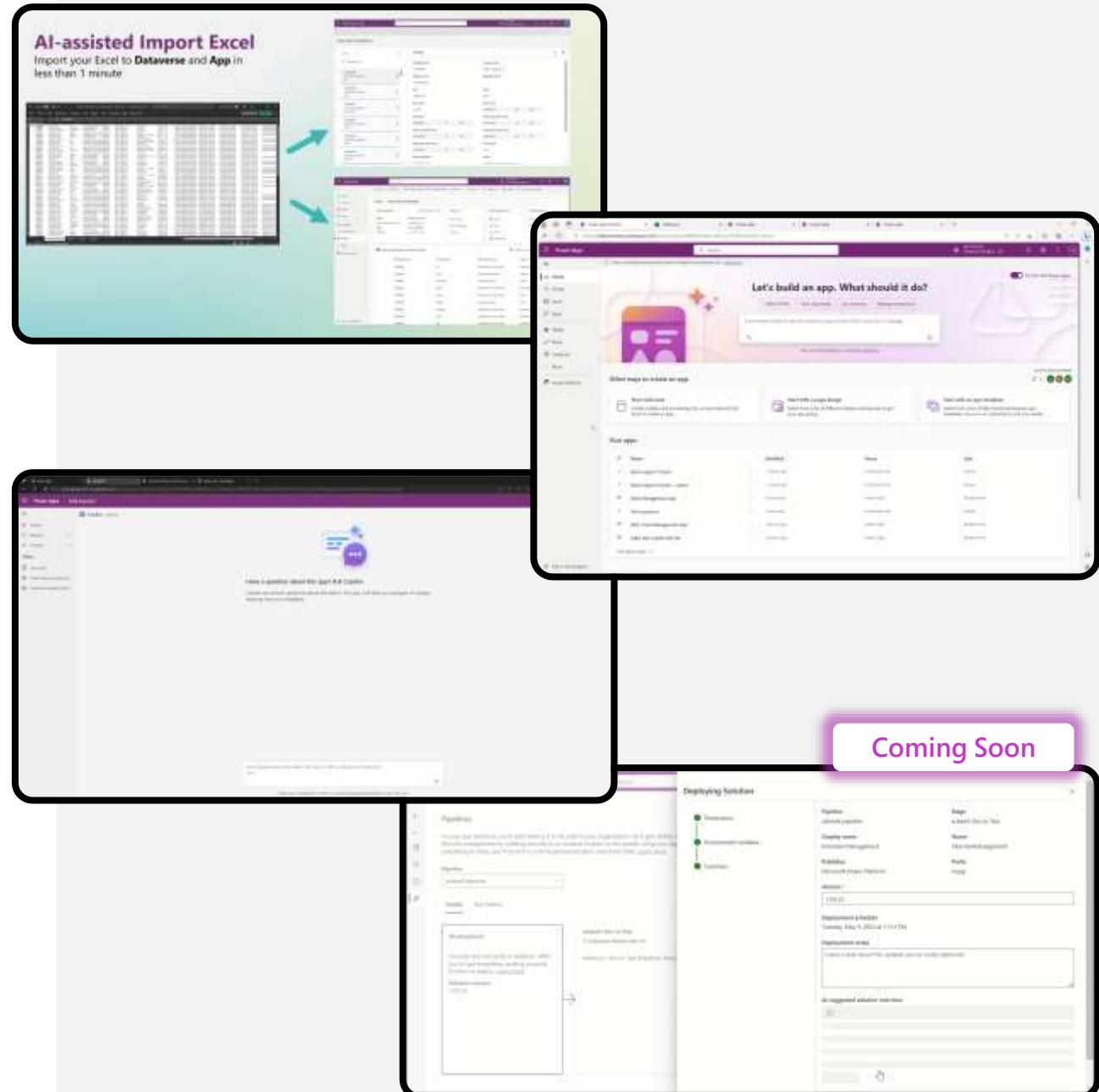
Use linguagem natural para gerar ações que transformem o trabalho manual de projetar uma interface do usuário em uma tarefa orientada pelo Copilot

IA em todos os aplicativos

O controle do copiloto e o novo sidebar oferecem uma experiência consistente em toda a plataforma, enquanto suas habilidades para ajudar, analisar e agir são detectáveis por meio de gatilhos e certas experiências de aplicativos, criando um verdadeiro fator "uau"

Descrições de aplicativos e soluções

Descrições geradas por IA ao publicar aplicativos ou implantar soluções que aliviam a tarefa manual de adicionar anotações escritas à mão para explicar o que um aplicativo faz ou aborda a solução



Transforme imagens e rascunhos em aplicativos com o AI Builder

Passe do rascunho ao protótipo mais rápido

Use o poder da IA para criar os aplicativos a partir do seu esboço no papel ou do Figma

Passe mais rápido de uma ideia para um protótipo

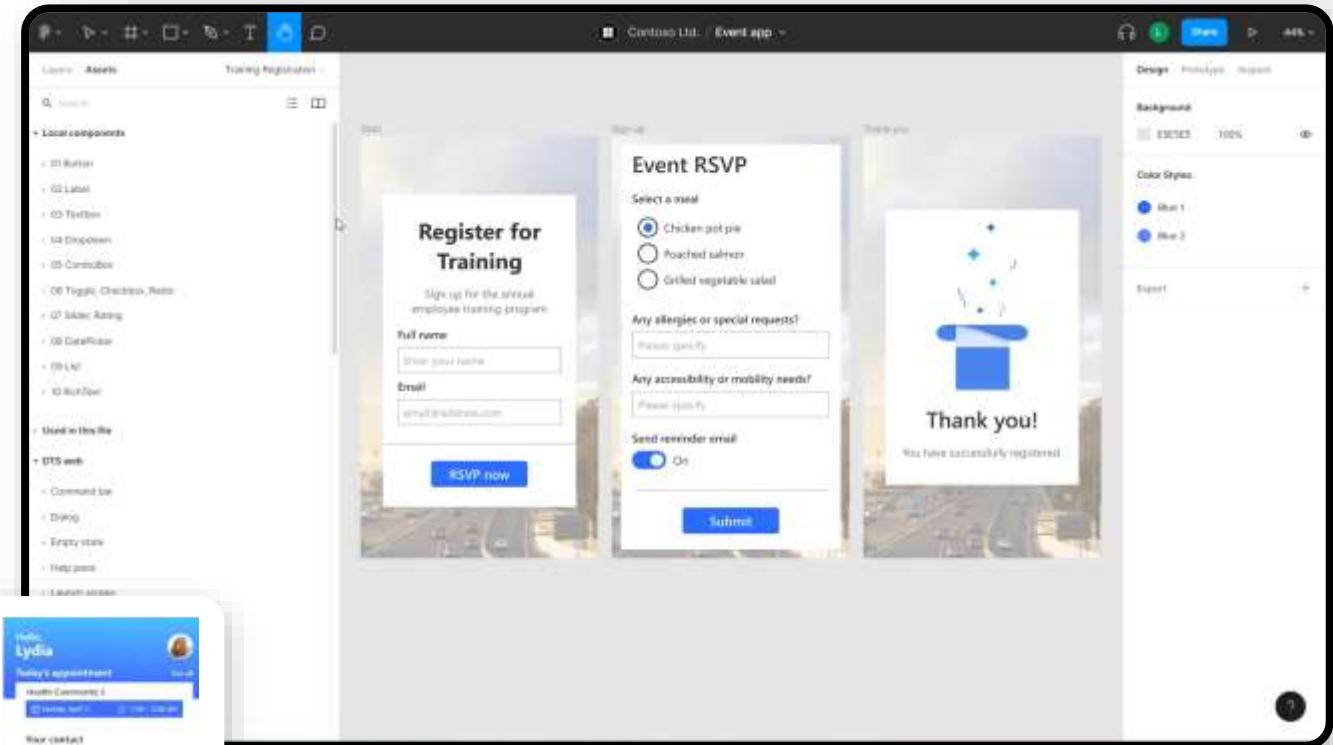
 Figma design files

 PDFs and paper forms

 Hand-drawn sketches



Express Design



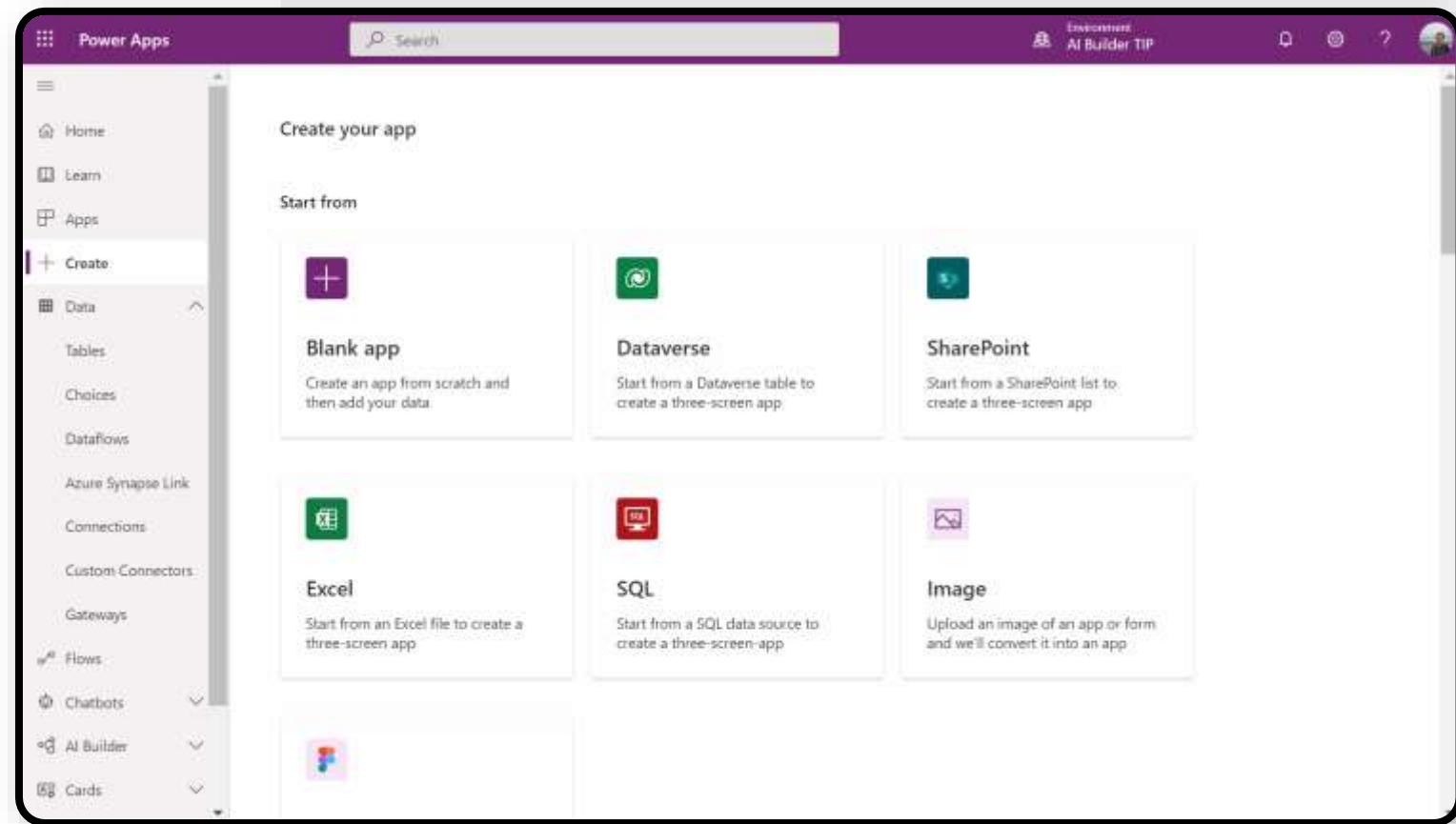
AI Express Design – Image to app

Carregar uma imagem e mapear seus elementos para componentes do Power Apps

Suporte aos controles mais comuns, como entradas, botões, caixa de seleção, listas suspensas, entradas de texto, etc.

Fornece etapas opcionais de configuração de dados para você extrair campos da imagem e criar uma tabela do Dataverse imediatamente

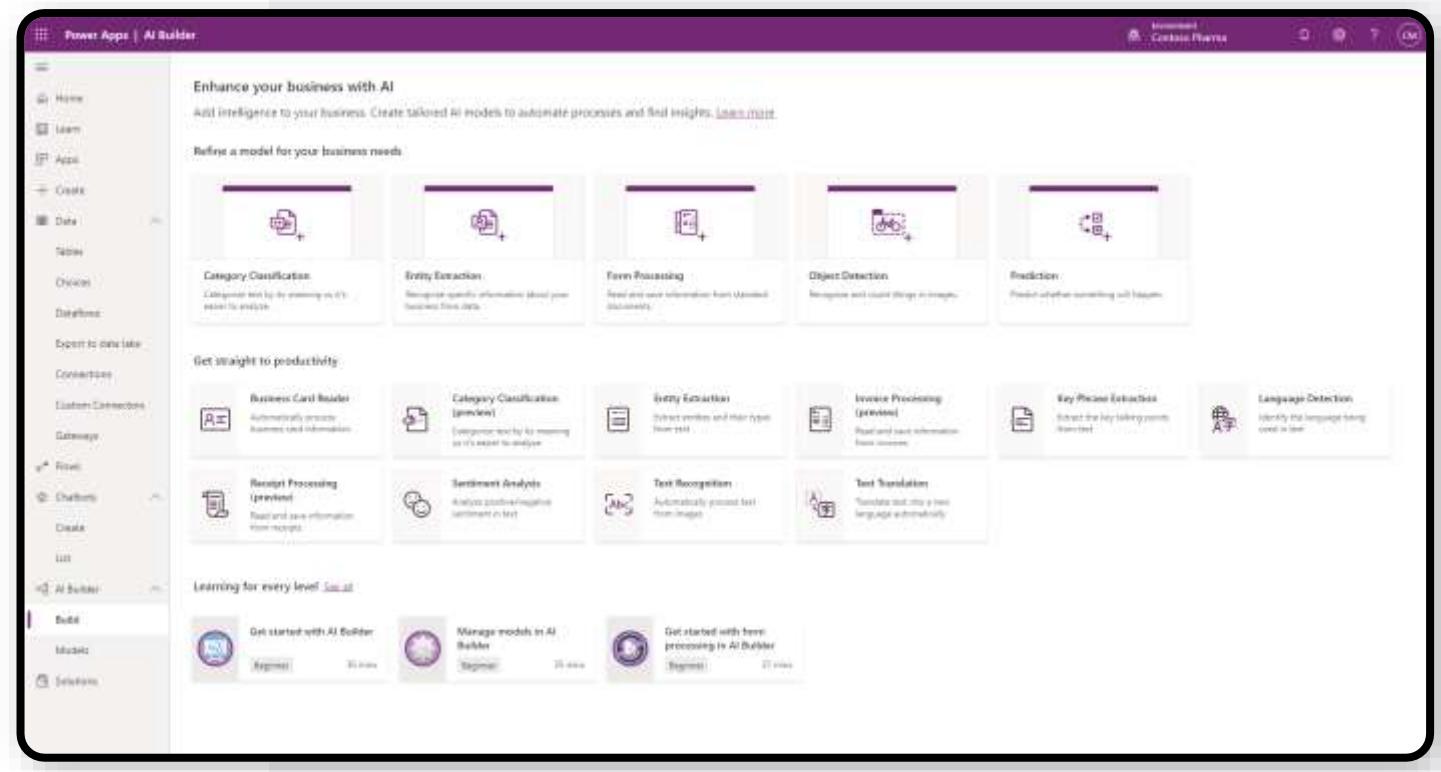
Um aplicativo funcional baseado no conteúdo da imagem é gerado automaticamente



Adicione IA para seus aplicativos

Dê aos usuários finais recursos de IA com o AI Builder

Proporcione aos usuários de seus aplicativos uma experiência aprimorada com IA que é fácil de criar e configurar no Power Apps



DataVerse and Model Driven App

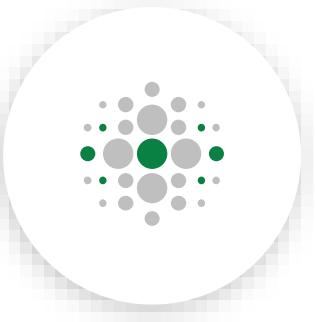
O que é Dataverse?

É muito mais do que um banco de dados!



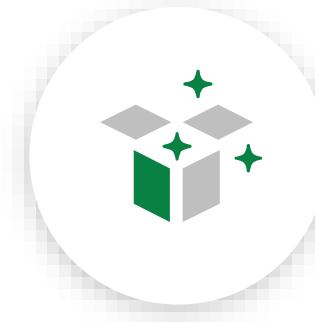
Mais do que um servidor

Embora o Dataverse **seja baseado no SQL do Azure**, ele é muito mais do que um servidor SQL, permitindo que os usuários capturem, analisem, prevejam, apresentem e relatem dados com um alto nível de agilidade.



Uma plataforma acionável

O Dataverse vem com um rico **conjunto de recursos acionáveis** que permitem que ele opere como uma plataforma para fazer mais com seus dados.

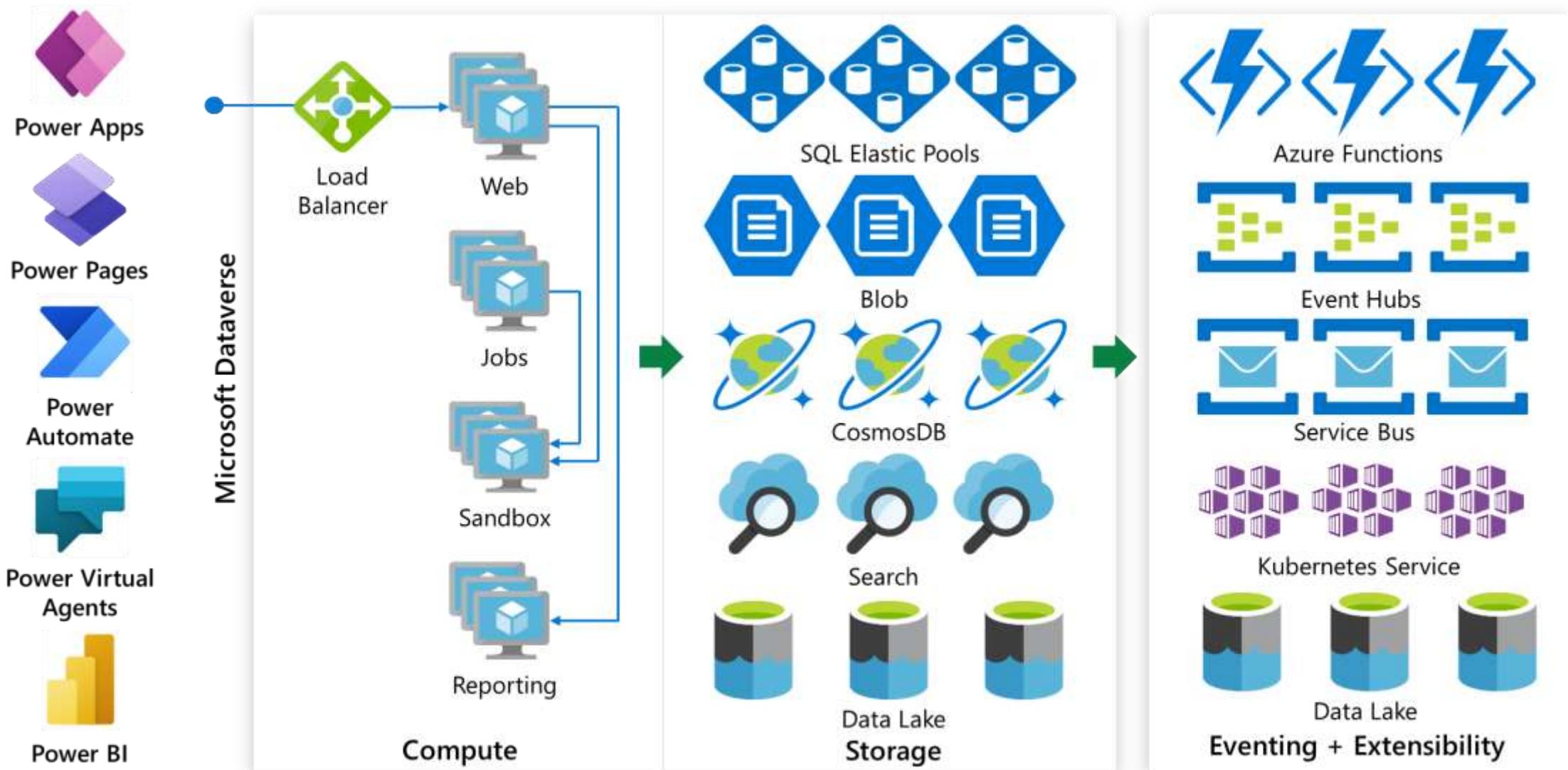


Controles prontos para uso

Um banco de dados tradicional **precisaria de camadas de aplicativos** para lidar com elementos como segurança e lógica de negócios, mas **com o Dataverse tudo isso é resolvido nativamente**, permitindo que você vá direto para modelagem de dados, aplicativos de negócios e apresentação de dados.

O que é Dataverse?

Executado e se estende no Azure



What is Dataverse?

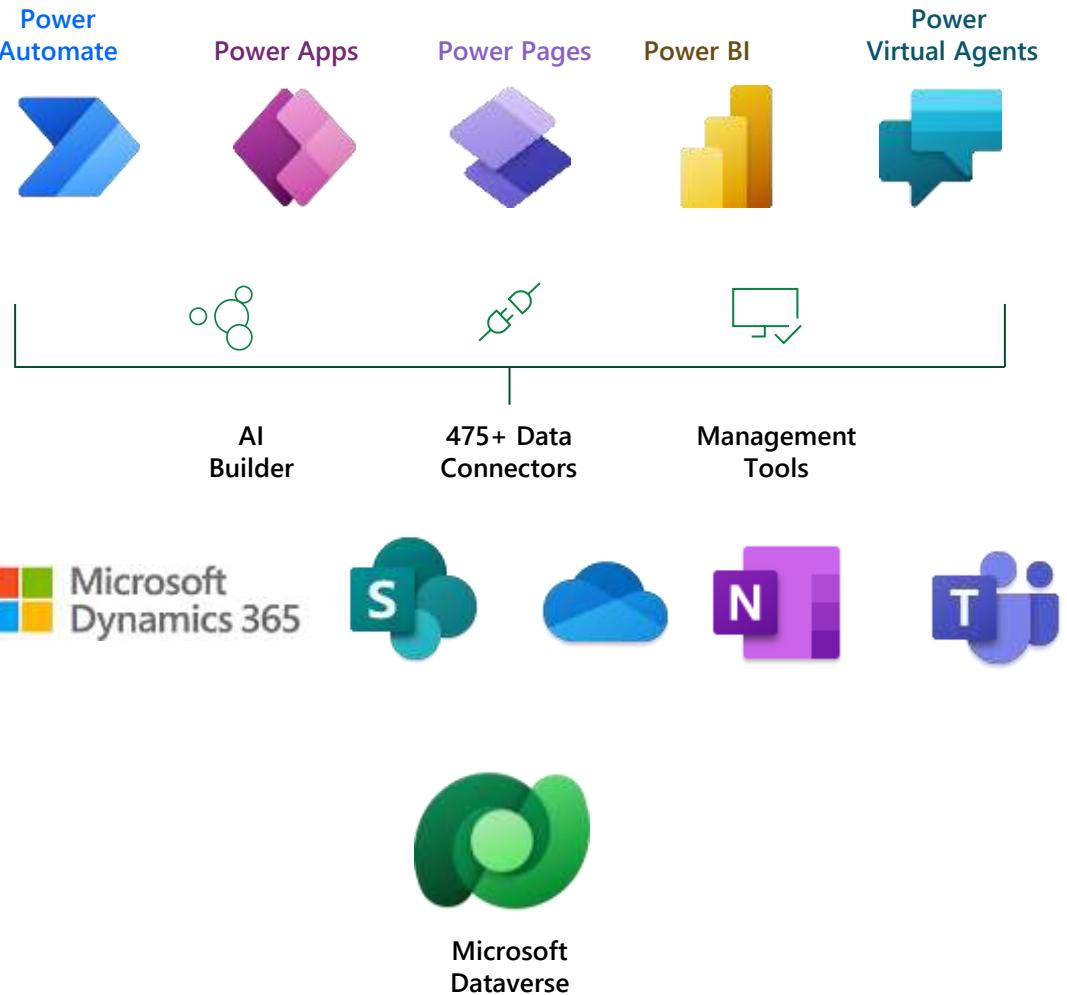
O Dataverse é uma solução **fácil** e **escalável** para **seus dados** em uma variedade de serviços da Microsoft

O **Microsoft Dataverse** é a **plataforma de dados** para o Microsoft Power Platform que permite armazenar e gerenciar dados corporativos.

O Dataverse também é a plataforma na qual os aplicativos do **Dynamics 365 são criados**, portanto, se você for um cliente do Dynamics 365, seus dados já estarão no Dataverse.

O Dataverse fornece suporte para **integração** com **SharePoint, OneDrive e OneNote**.

O **Microsoft Dataverse for Teams** é um subconjunto essencial de recursos do Dataverse incluído como uma poderosa plataforma de dados integrada para milhões de usuários do Teams sem custo adicional.



Por que Dataverse?

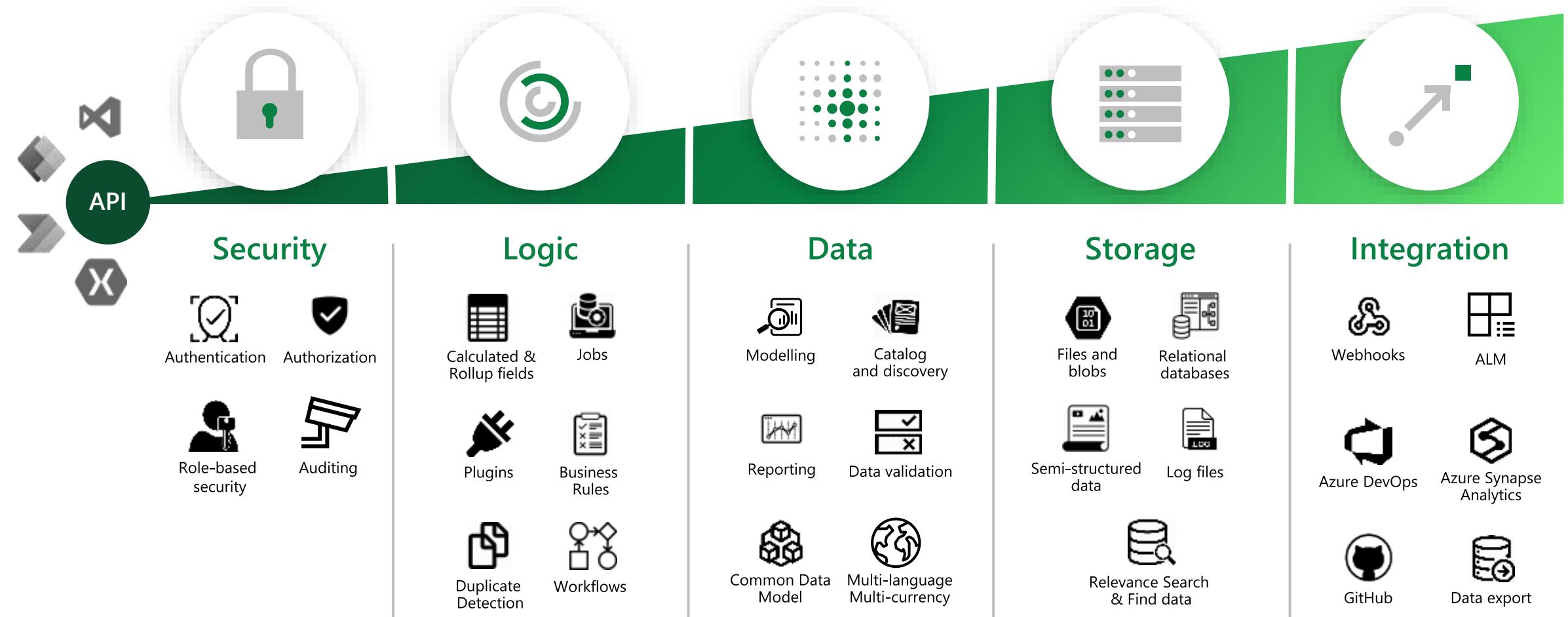


Os dados são responsáveis pelo **desempenho do aplicativo** e podem fornecer insights profundos sobre o comportamento do usuário.

O Dataverse oferece **soluções poderosas e escaláveis para seus dados**, aproveitando a **segurança** e a **conectividade** da Power Platform para que você possa controlar, automatizar e fortalecer totalmente seus negócios.

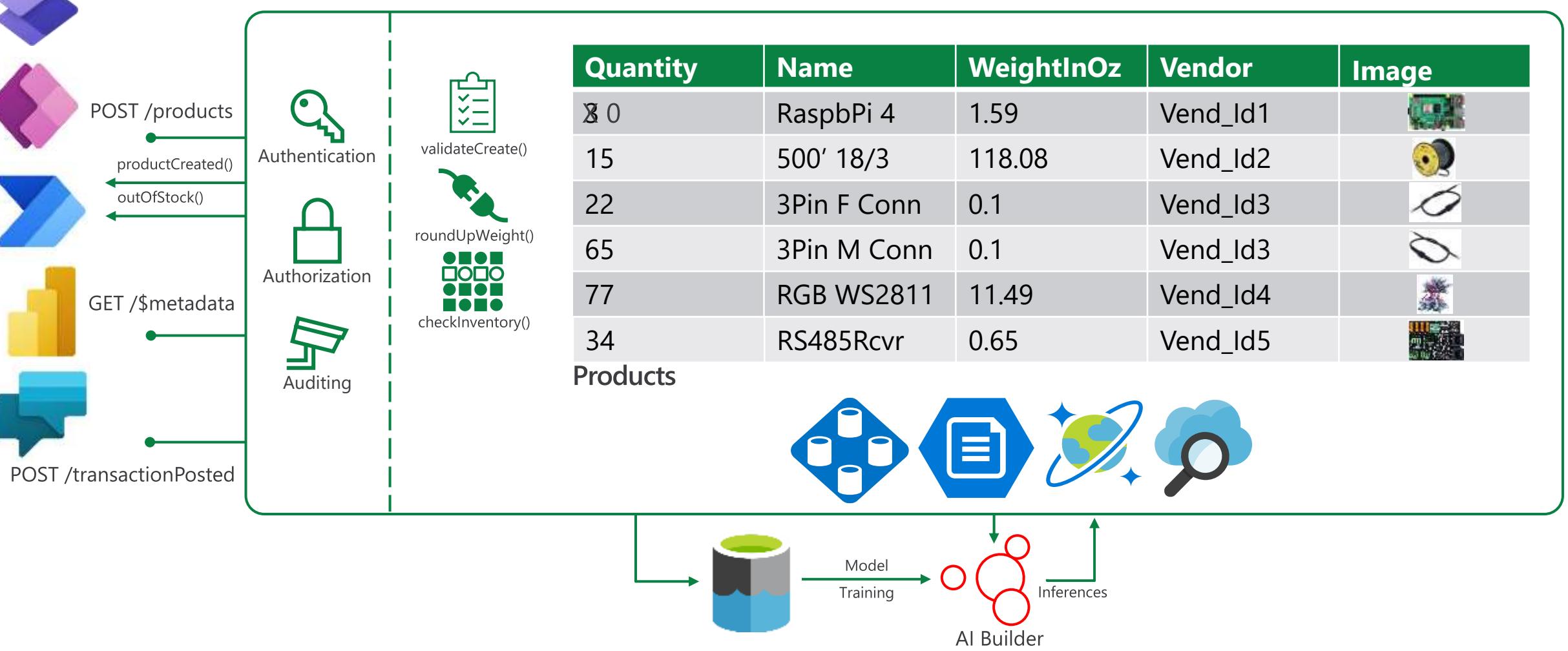
Por que Dataverse?

Uma plataforma de desenvolvimento de aplicativos low-code em que você pode confiar



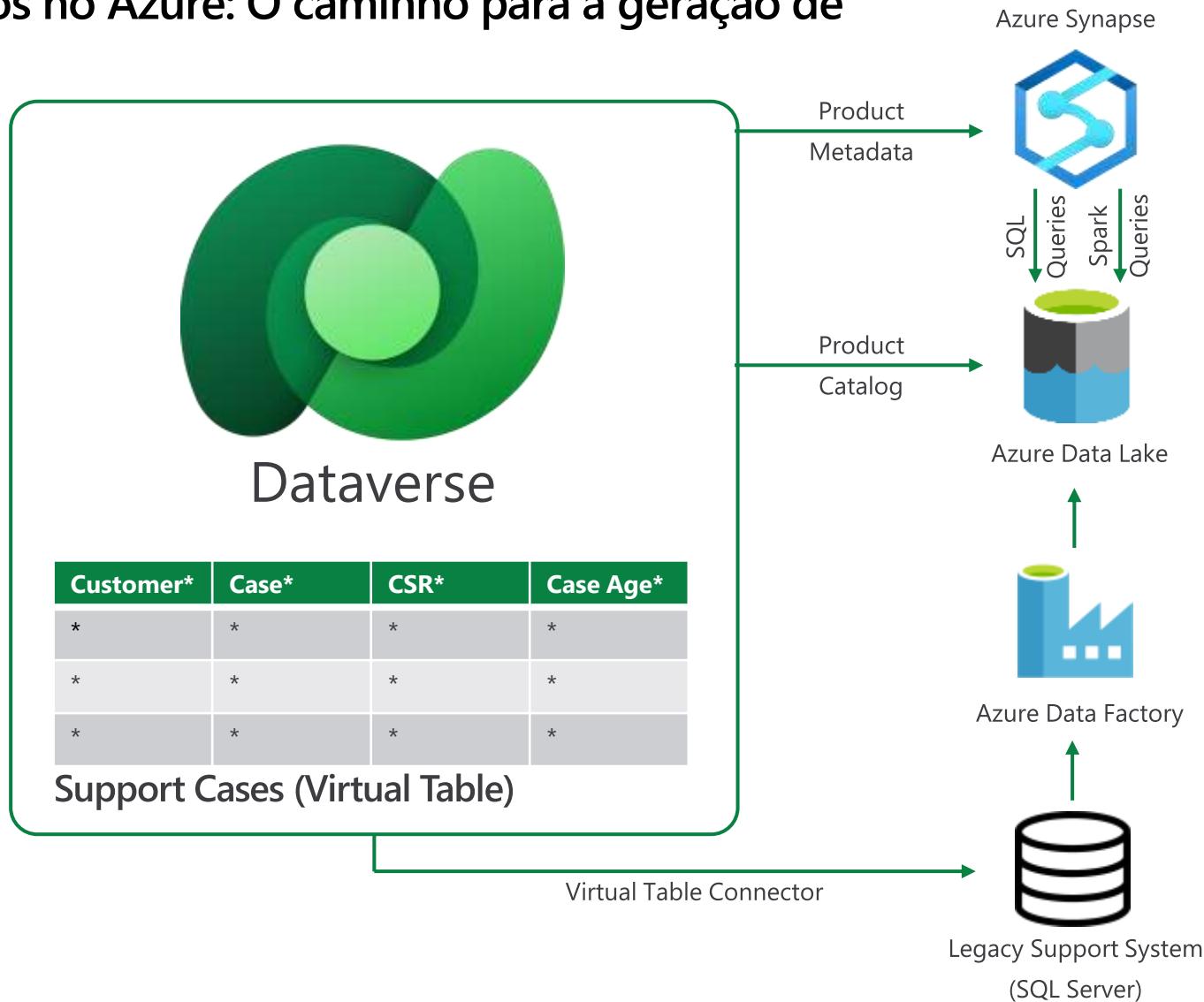
Por que Dataverse?

Uma plataforma de dados low code



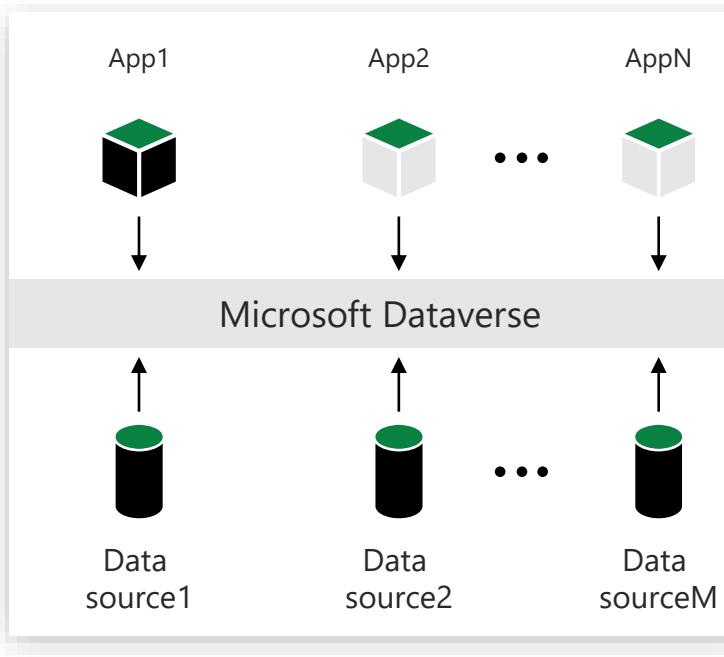
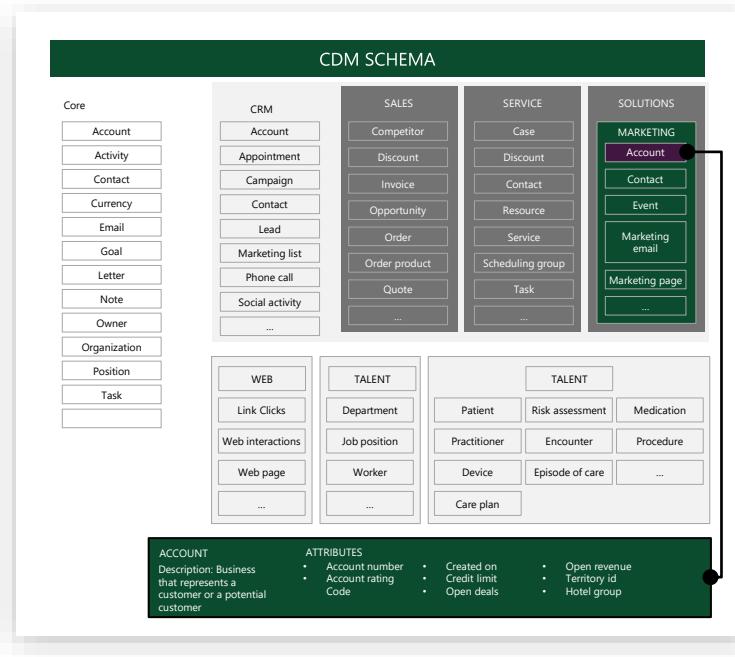
Por que Dataverse?

Dataverse + Dados no Azure: O caminho para a geração de insights



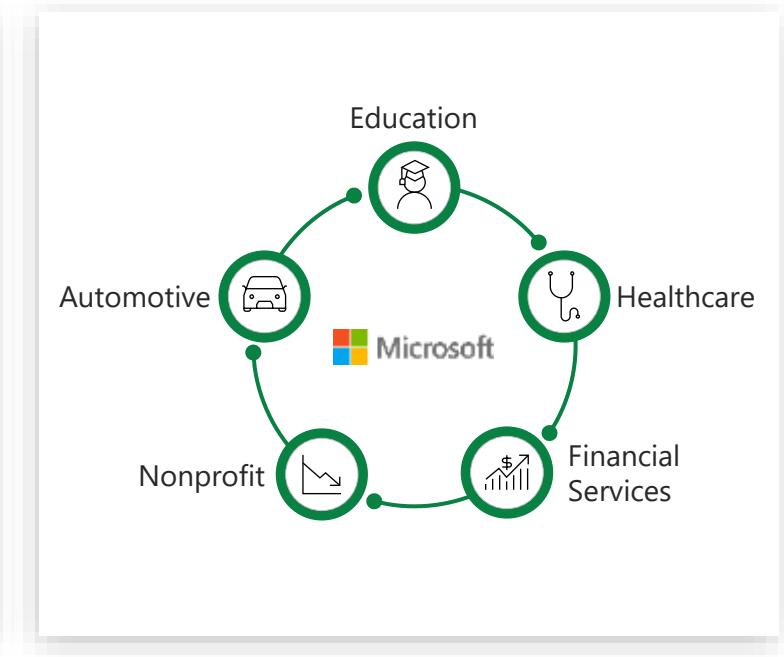
Por que Dataverse?

Modelo de dados de código aberto com CDM (Common Data Model)



Modelo de dados de código aberto e compartilhado que fornece consistência semântica para dados

Permite que os makers desenvolvam aplicativos e integrações mais rapidamente para interagir mais facilmente em vários sistemas



Um conjunto crescente de soluções e parceiros que contribuem para o esforço implementando o CDM ou estendendo-se com domínios específicos do setor

Model Driven Apps

Aplicativos para suportar processos complexos

1

Crie aplicativos responsivos baseados na sua **estrutura de dados** no **Dataverse**

2

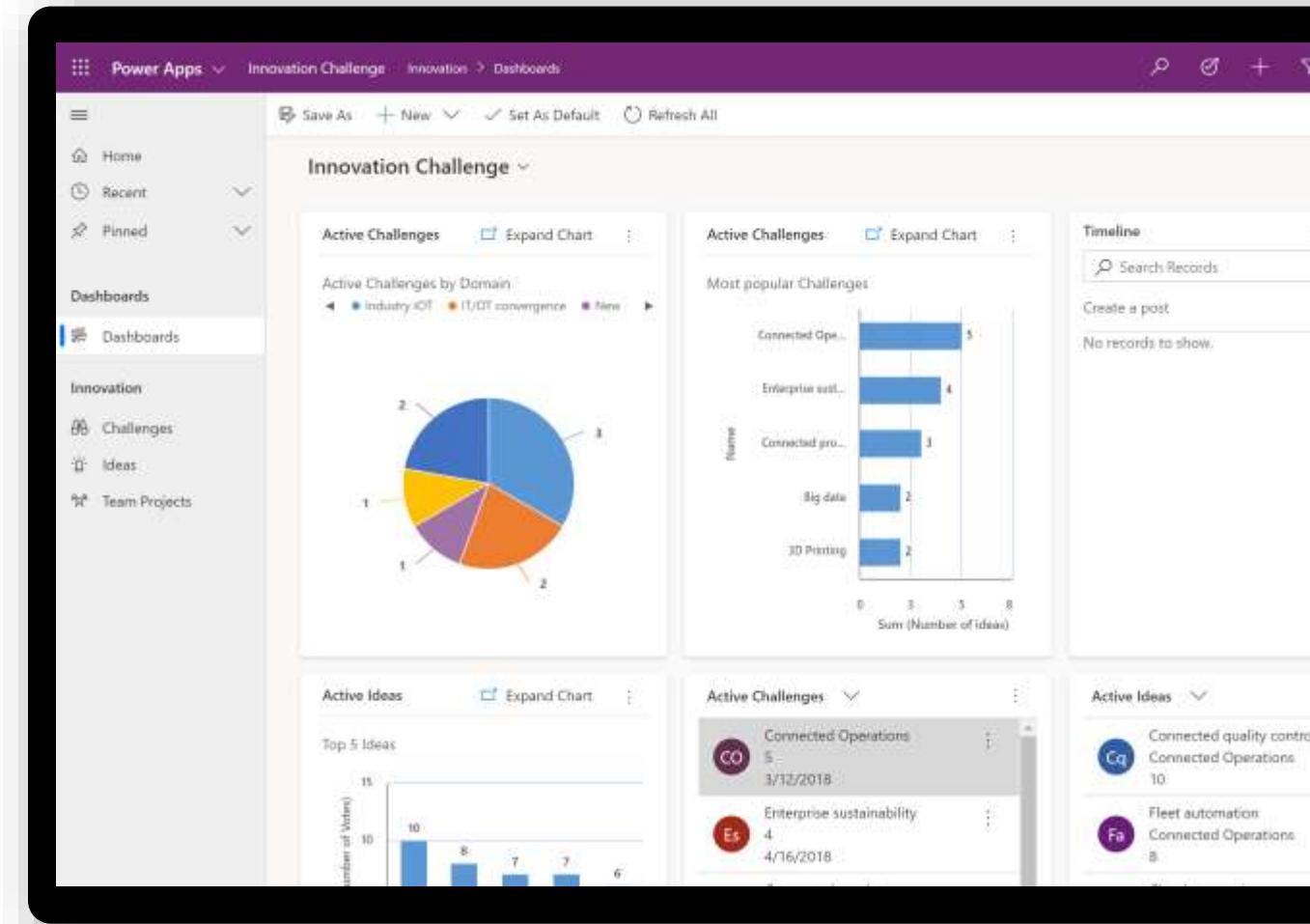
Forneça uma **experiência** de uso **consistente** para todos os seus aplicativos, independentemente do dispositivo

3

Aumente a **eficiência** do processo ao fornecer uma **navegação** e manipulação de dados **ágil**.

4

Migração entre ambientes **ágil** e **simples**



Model Driven Apps versus Canvas Apps

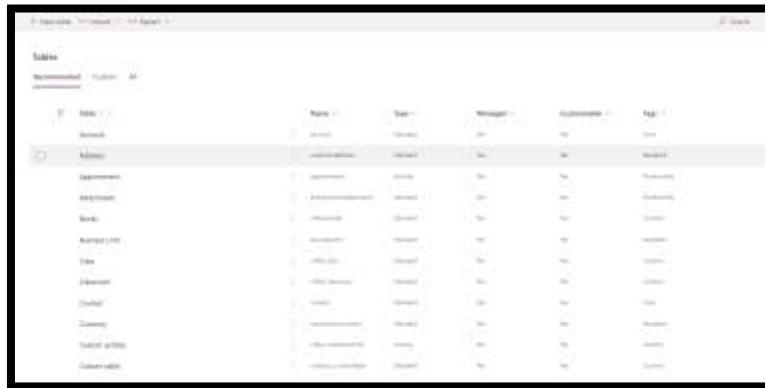
Tabela comparativa

Categoria	Model-driven apps	Canvas apps
Plataforma de dados	Somente Dataverse	Dataverse + outras plataformas através de conectores
Experiência de design	Design focado em componentes sem código	Manipulação usando expressões Power Fx
Controle de interface do usuário	Personalização limitada, predominante	Controle total
Consistência do aplicativo	Alto – difere predominantemente com base nas tabelas e exibições escolhidas	Muitas vezes baixo, dado o controle significativo que os designers têm da experiência do usuário
Migração entre ambientes	Simples	Potencialmente complexo, dado que as fontes de dados podem precisar ser atualizadas
Velocidade de criação	Rápido	Depende da complexidade do projeto
Responsividade	Automática	Somente responsivo se projetado dessa maneira
Navegação por relacionamentos	Automático, desde que existam relacionamentos	Somente quando projetado e aplicado usando fórmulas Power Fx
Recursos de acessibilidade	Nativos	Deve ser projetado no aplicativo: Create accessible canvas apps

Model Driven Apps

Ferramentas para criação

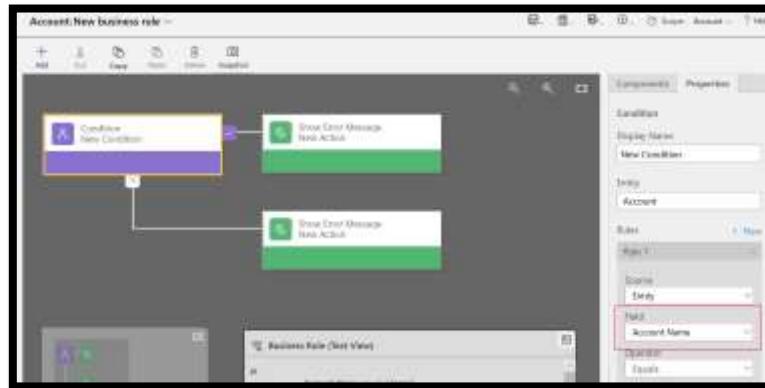
Editor de tabelas



Criação de **tabelas** e seus componentes, dentre eles:

- Campos
- Formulários
- Exibições
- Relacionamentos

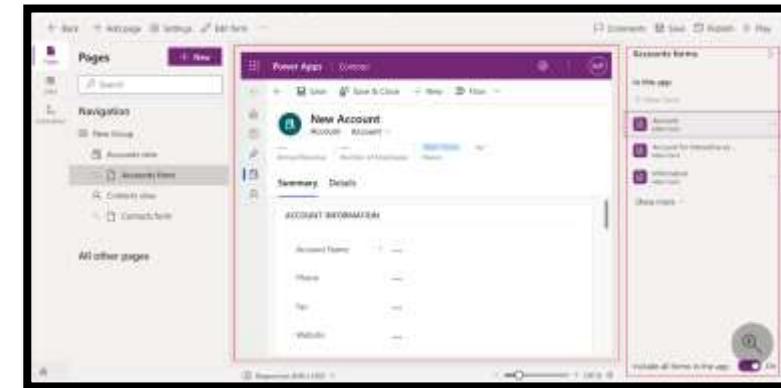
Editor de regras de negócio



Criação de **regras condicionais** a serem aplicadas nos formulários:

- Obrigatoriedade
- Valor padrão
- Controle de exibição de campos

Editor de aplicativos



Definição dos **componentes** que farão parte do aplicativo.

Model Driven Apps

Grid de dados editáveis

Edição em linha

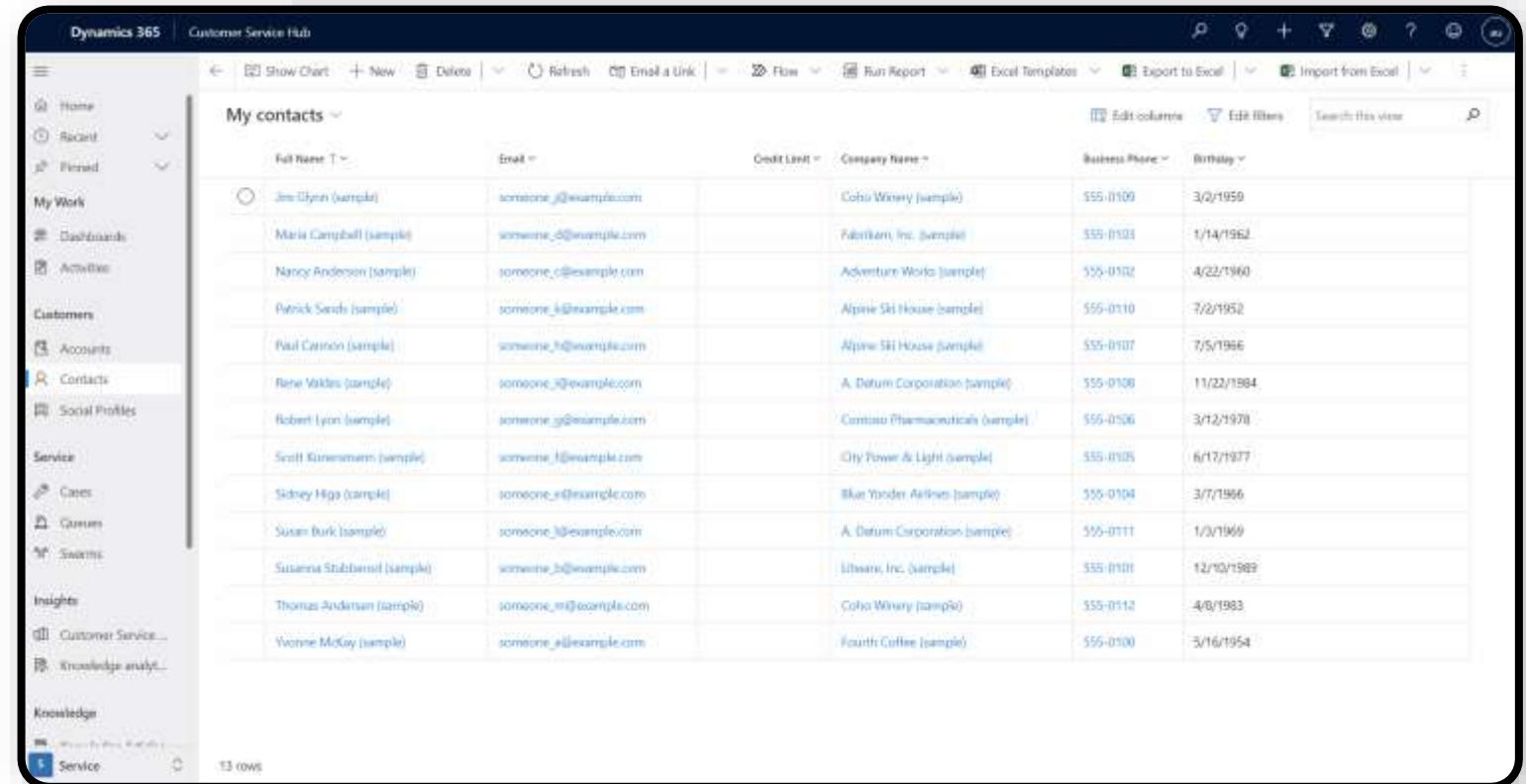
Exibir e abrir registros em modos de exibição e subgrades e habilitar alterações diretamente na grade sem navegar para um formulário

Rolagem infinita

Uma experiência de navegação moderna que permite aos usuários rolar indefinidamente os dados

Renderizadores/editores de células personalizados

Para fazer modificações em uma ou mais colunas por meio da propriedade "Controle do personalizador"



The screenshot shows the Dynamics 365 Customer Service Hub interface. On the left is a navigation sidebar with links like Home, Recent, Folders, My Work, Dashboards, Activities, Customers, Accounts, Contacts, Social Profiles, Service, Cases, Curations, Surveys, Insights, Customer Service, and Knowledge. The main area is titled 'My contacts' and displays a grid of 13 rows of contact information. Each row includes columns for Full name, Email, Credit limit, Company name, Business phone, and Birthday. To the right of each row is a small circular icon with a pencil symbol, indicating that the data can be edited directly from the grid.

Full name	Email	Credit limit	Company name	Business phone	Birthday
Jim Glynn (sample)	someone_j@example.com		Coho Winery (sample)	555-0109	3/2/1959
Maria Campbell (sample)	someone_c@example.com		Fabrikam, Inc. (sample)	555-0103	1/14/1962
Nancy Anderson (sample)	someone_n@example.com		Adventure Works (sample)	555-0102	4/22/1960
Patrick Sando (sample)	someone_p@example.com		Alpine Ski House (sample)	555-0110	7/2/1952
Paul Cannon (sample)	someone_h@example.com		Alpine Ski House (sample)	555-0107	7/5/1966
Rene Wilders (sample)	someone_r@example.com		A. Datum Corporation (sample)	555-0108	11/22/1984
Robert Lyon (sample)	someone_g@example.com		Contoso Pharmaceuticals (sample)	555-0106	3/12/1978
Scott Koenemann (sample)	someone_f@example.com		iCity Power & Light (sample)	555-0105	6/17/1977
Sidney Higa (sample)	someone_e@example.com		Blue Yonder Airlines (sample)	555-0104	3/7/1966
Susan Burk (sample)	someone_d@example.com		A. Datum Corporation (sample)	555-0111	1/3/1969
Susanna Stubben (sample)	someone_b@example.com		Uhura, Inc. (sample)	555-0101	12/10/1989
Thomas Andersson (sample)	someone_m@example.com		Coho Winery (sample)	555-0112	4/6/1983
Yvonne McKay (sample)	someone_s@example.com		Fourth Coffee (sample)	555-0100	3/16/1954

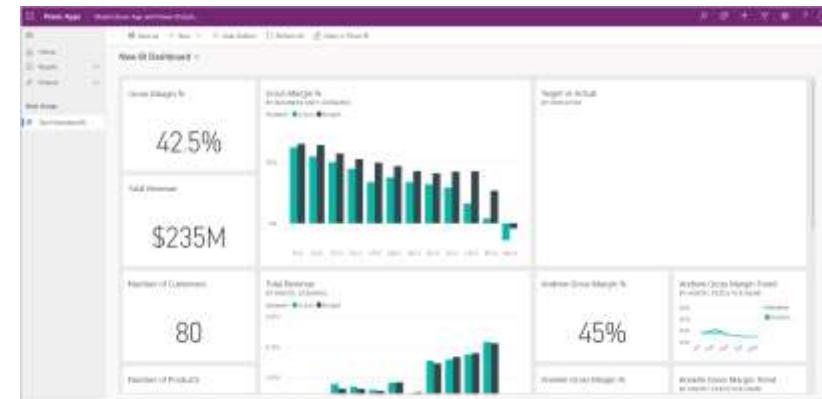
Model Driven Apps

Integrações nativas disponíveis

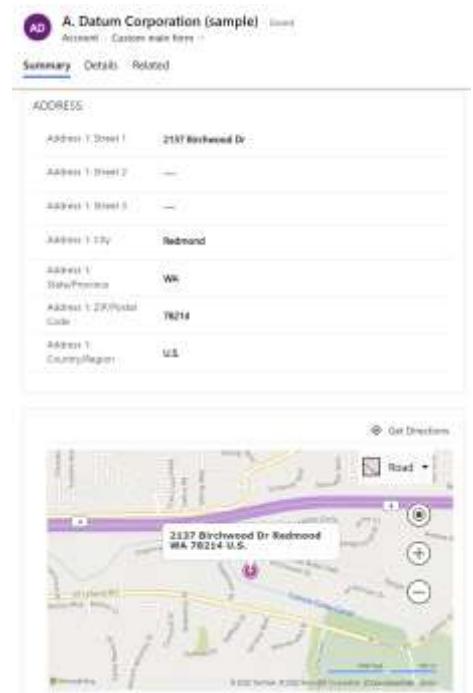
Gestão de documentos no Sharepoint

The screenshot shows the SharePoint interface for managing documents. It includes a navigation bar at the top, a search bar, and a main content area displaying a list of documents. The sidebar on the left provides navigation links for Home, Recent, and Recently added items.

Dashboards do Power BI



Mapas do Bing Maps



Execução de fluxos do Power Automate

The screenshot shows the Power Automate interface. The top navigation bar includes icons for Email a Link, Flow, Export to Excel, Import from Excel, and a search bar. Below the navigation is a 'Manage' section with 'Create a flow' and 'See your flows' buttons.

Edição de dados no Excel Online

The screenshot shows the Excel Online interface. On the left, there's a sidebar with navigation links for Home, Recent, and Recently. The main area displays a table titled 'Active Ideas' with columns for 'Name', 'Last updated', 'Number of likes', and 'Last activity'. One row in the table has a red box around the 'Open in Excel Online' button. The table also includes rows for 'Cloud computing', 'Big Data', 'Integrated service management', 'Rapid prototyping', 'Quality control sample', 'Solar panels', and 'Automation sample'.

Name	Last updated	Number of likes	Last activity
Cloud computing	Termination	7	—
Big Data	AI training	7	—
Integrated service management	Connected Operations	8	—
Rapid prototyping	Industrial manufacturing	6	— 11/7/2020 11:30 PM
Quality control sample	Connected Operations	5	6 11/7/2020 11:30 PM
Solar panels	Enterprise sustainability	5	6 11/7/2020 11:30 PM
Automation sample	Connected Operations	5	6 11/7/2020 11:30 PM

Opções escalonáveis de modelagem e armazenamento de dados



SharePoint Online Lists

- Built and maintained by **citizen developers**
- Connect natively with a **standard connector**
- Good for **low volume and simple non-relational data model** shared across O365 and Power Platform
- **Simple Permission Groups** managed by IT Professionals and super users



Dataverse for Teams

- Built and maintained by **citizen developers**
- Connect natively with **Microsoft Teams**
- Good for **low volume of relational data structures** to use exclusively within Microsoft Teams
- **One-click upgrade to Dataverse**
- **OMG** (Owner, Member, Guest) permissions



Microsoft Dataverse

- Built and maintained by **super users**
- Connect natively with a **premium connector¹**
- Good for **large volume of transactional data** (Data, Files, Log)
- Out-of-the-box **multi-language and multi-currency support**
- **Advanced Role Based Access Control (RBAC)**
- Auto **Load-Balancing, Backup, Restore and audit log**
- Customizable **duplicate detection** and **business rules**



On Premises Data

- Built and maintained by **IT professionals**
- Connect with an **On-Premises data gateway¹**
- Good for connecting to **legacy master data and systems**
- **Share same Gateway** across Power Apps, Power Automate and Power BI
- Can be configured for **load balancing**



SQL On Azure

- Built and maintained by **IT professionals**
- Connect with a **premium connector¹**
- Good for **very large volumes of master data** shared with heterogeneous systems
- Role Based Access Control (**RBAC**) **customizable by IT Professionals**
- Data Quality Tools and Business rules **customizable by IT Professionals**

¹Feature requires standalone Power Apps or Power Automate user license

Opções escalonáveis de modelagem e armazenamento de dados

	SharePoint Lists	Dataverse for Teams	Dataverse	On Premises Data	Azure SQL
Maximum data capacity	25 TB per site collection <i>limits when accessing and operating on lists in an app</i>	2 GB per environment <i>no option to increase but can upgrade to Dataverse environment</i>	4 TB per environment	-	100 TB
Hierarchical security	None	None	Out of the box <i>via Business units</i>	-	Customization
Field level security	None	None	Out of the box	-	Out of the box
Who will create and manage the app and data model?	Business	Business	Business or IT	IT	IT
Data model complexity	Simple or flat	Simple or complex	Simple or complex	Complex	Very complex
Platform	PaaS	SaaS	SaaS	-	PaaS
Advanced analytics and reporting	Simple reporting on non-real time data. Refresh is on a schedule.	Direct Query with security trimming and near real-time updates.	Connects to Data Lake Gen 2 for advanced analytics. Direct Query with security trimming and near real-time updates.	-	Direct Query available for near real-time update.

Power Pages

Evite desafios comuns do desenvolvimento web com o Power Pages



Restrições orçamentárias e de tempo



Fluxos de negócios complexos



Restrições de hospedagem de sites



UX Design



Integração de produtos



Silos de dados



Riscos de segurança e conformidade

Diferenciação do Power Pages na Power Platform

Necessidades do público do usuário e suas respectivas opções

Historicamente requer desenvolvimento de aplicativos tradicionais, poucas soluções prontas

Public/Anonymous
Usuários externos



Externo
Clientes,
Parceiros,
Fornecedores,
Vendedores, etc.

Interno
Usuários dentro
da minha
organização

Produtividade no local de trabalho
Desenvolvimento low-code



Public/Anonymous
Usuários externos



Usuários internos



Power BI



Power Automate



Power Apps



Dynamics 365



Office 365

Capaz de atender a todos os públicos de usuários



Power Pages



Power Virtual Agents



Power BI Embedded

O Power Pages oferece suporte a sites de negócios



Digitalização de serviços públicos

Atenda a comunidade em escala

Permissões

Licenças

Pedidos

Relato de
incidentes/interrupções

Autoatendimento ao Cliente

Forneça suporte 24/7

Inscrição

Devoluções

Suporte

Compromissos

Agendamentos

Fóruns

Operações de parceiros

Simplifique os processos de negócios

Onboarding

Rastreio

Solicitações

Supporte

FAQs

Fornecer respostas para perguntas comuns

Produtos

Serviços

Eventos especiais

Políticas

Procedimentos



Brochures

Photography portfolios

Blogs

Crie sites de negócios modernos, seguros e responsivos



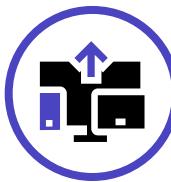
Facilite a criação para todos

Permita que todos em sua organização projetem e iniciem sites envolventes – sem necessidade de codificação.



Construa sem limites

Capacite seus desenvolvedores com ferramentas avançadas de web design que podem levar suas páginas a um nível totalmente novo.



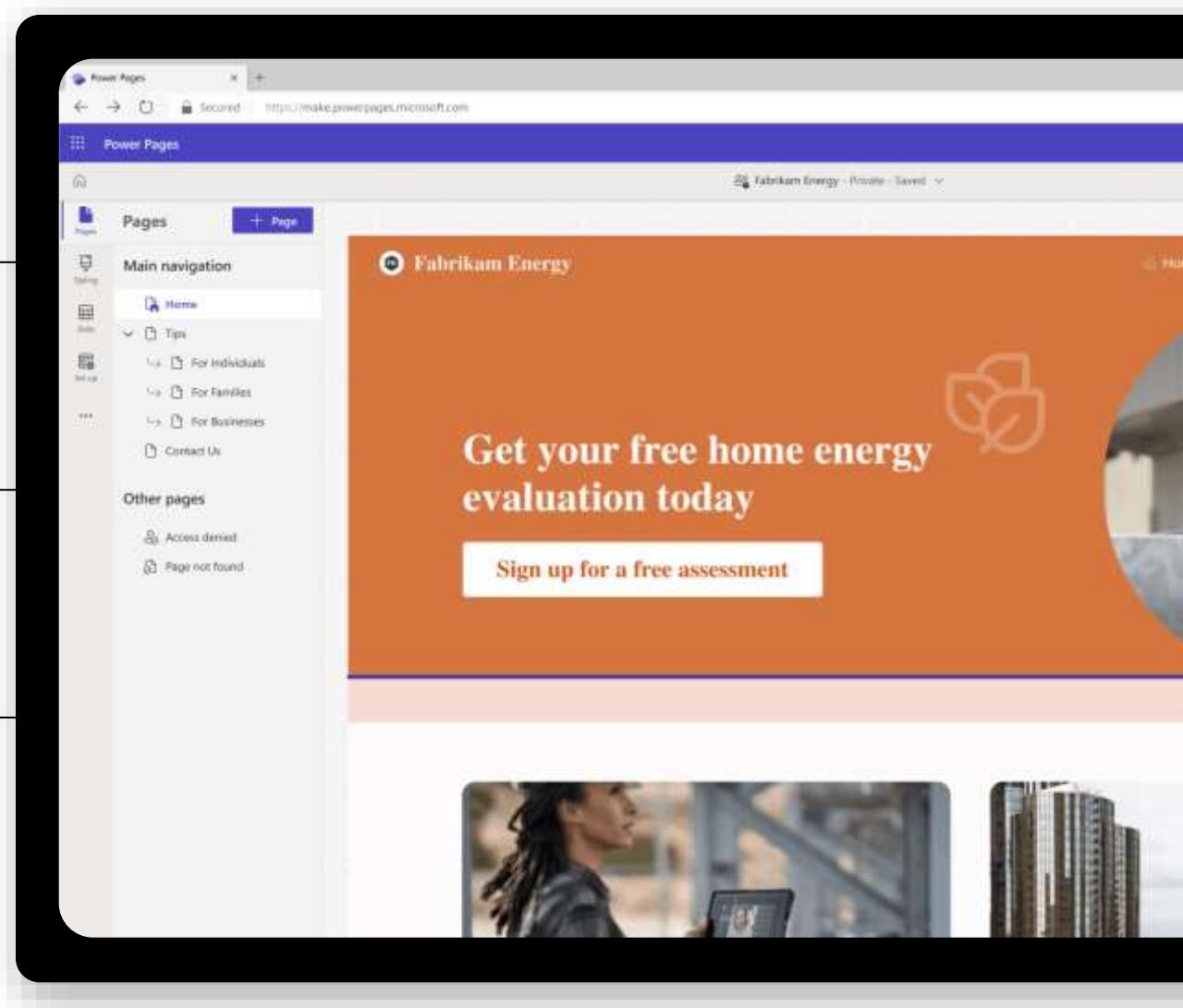
Compartilhe com segurança

Gerencie todos os seus sites em um único local e atenda aos seus requisitos de segurança e conformidade mais exigentes.



Aproveite os novos e empolgantes recursos de desenvolvimento

Adicione painéis, compartilhamento de documentos, chatbots, automação e muito mais para uma experiência mais inteligente, com **integração nativa** com Power Platform e a outros serviços da Microsoft.



Crie sites de negócios modernos, seguros e responsivos



Facilite a criação para todos



Design pixel perfect web pages with ease



Make secure login easy



Add a search functionality



Extend Dynamics 365 and other business apps



Support multiple languages



Construa sem limites



Customize your sign-in experience



Expand your existing websites



Accelerate development with your own templates



Bring custom code to low-code



Streamline your app lifecycle management



Compartilhe com segurança



Unify your management experience



Support multiple security scenarios



Make your site more accessible



Manage and remediate, faster



Meet your privacy requirements



Snap in exciting new pro-dev capabilities



Display business intelligence reports and dashboards



Share documents and files

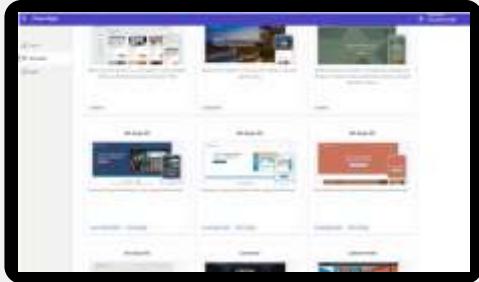


Enable chatbot agents



Get a better understanding of your website traffic

Conheça o Power Pages Studio



Template Hub

Crie seus sites corporativos a partir de modelos e personalize facilmente a partir de **16 novas opções**.

Resolva casos de uso comuns entre setores, simplifique processos de negócios específicos e estenda aplicativos **do Dynamics 365**.

Design Studio

Use-o para **personalizar, configurar e publicar** sites de negócios modernos, responsivos e centrados em dados.

Os criadores agora podem criar **formulários de várias etapas** e adicionar **CSS personalizado**

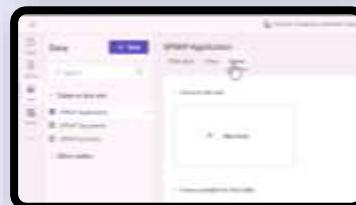
Quatro espaços de trabalho



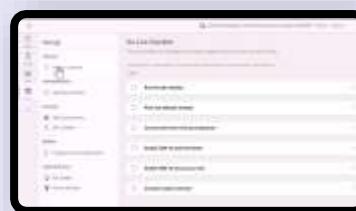
Pages workspace



Styling workspace



Data workspace



Setup workspace



Learn Hub

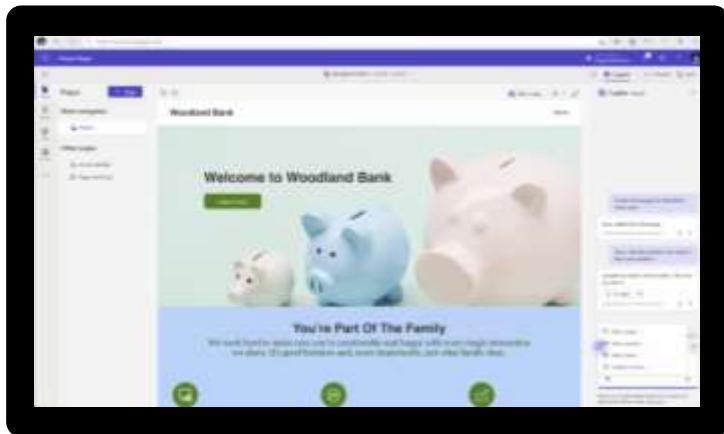
Explore guias, tutoriais e vídeos rápidos para aprender a **criar, modelar, visualizar** e muito mais.

A recém-adicionada seção **Tutoriais** oferece mais suporte para desenvolvedores profissionais e cidadãos

Copilot no Power Pages | Recursos generativos de IA

Crie páginas do site

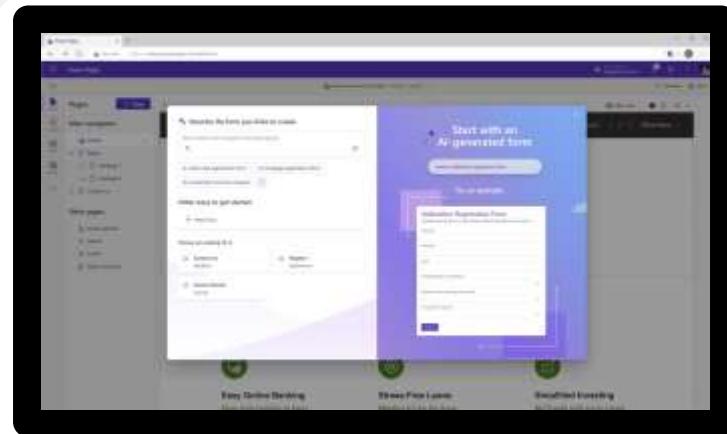
Linguagem natural para página



Crie layouts de página com o conteúdo inicial apropriado do site por meio de linguagem natural.

Crie formulários

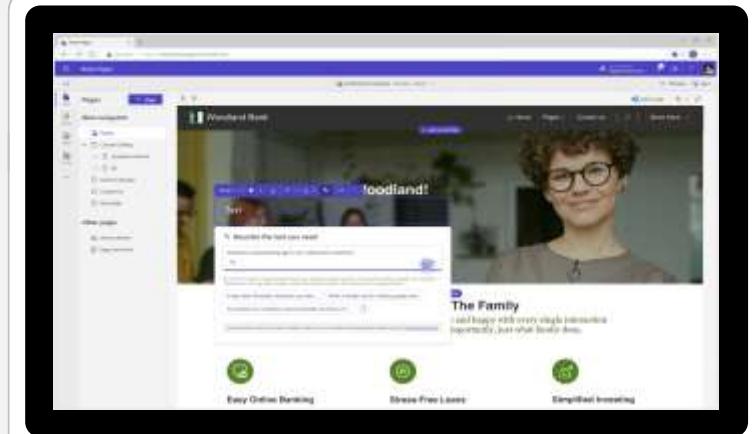
Linguagem natural para formulários



Crie formulários e as tabelas apropriadas para armazenar os dados do formulário.

Crie conteúdo de texto

Linguagem natural para texto

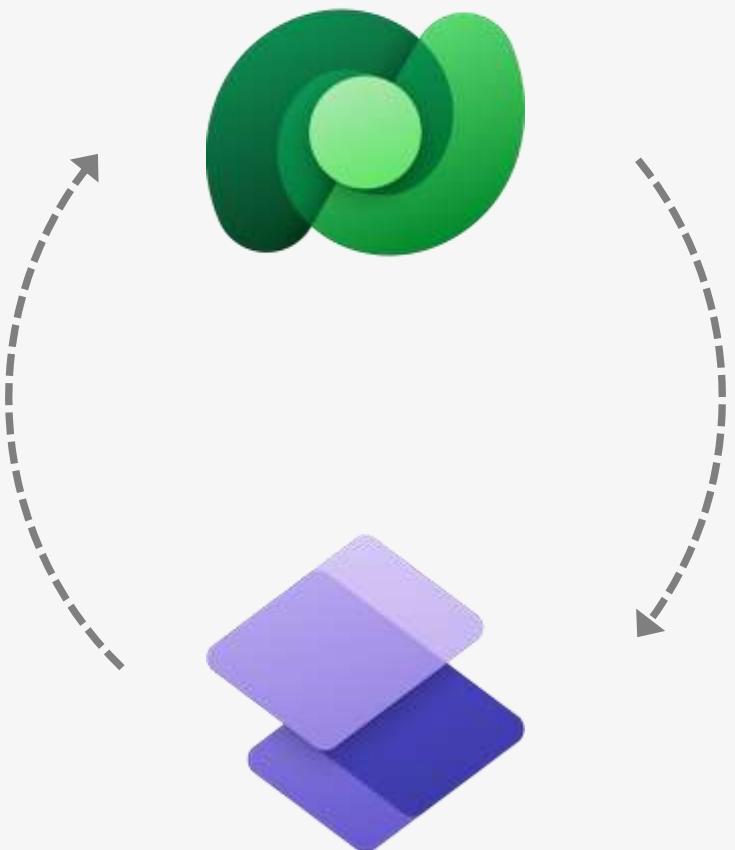


Use linguagem natural para gerar o conteúdo de texto que pode ser ajustado para comprimento, tom e muito mais.

Verificações responsáveis de IA + verificações de moderador de conteúdo do Power Pages + verificações de moderador de conteúdo do Azure Open AI

Azure OpenAI

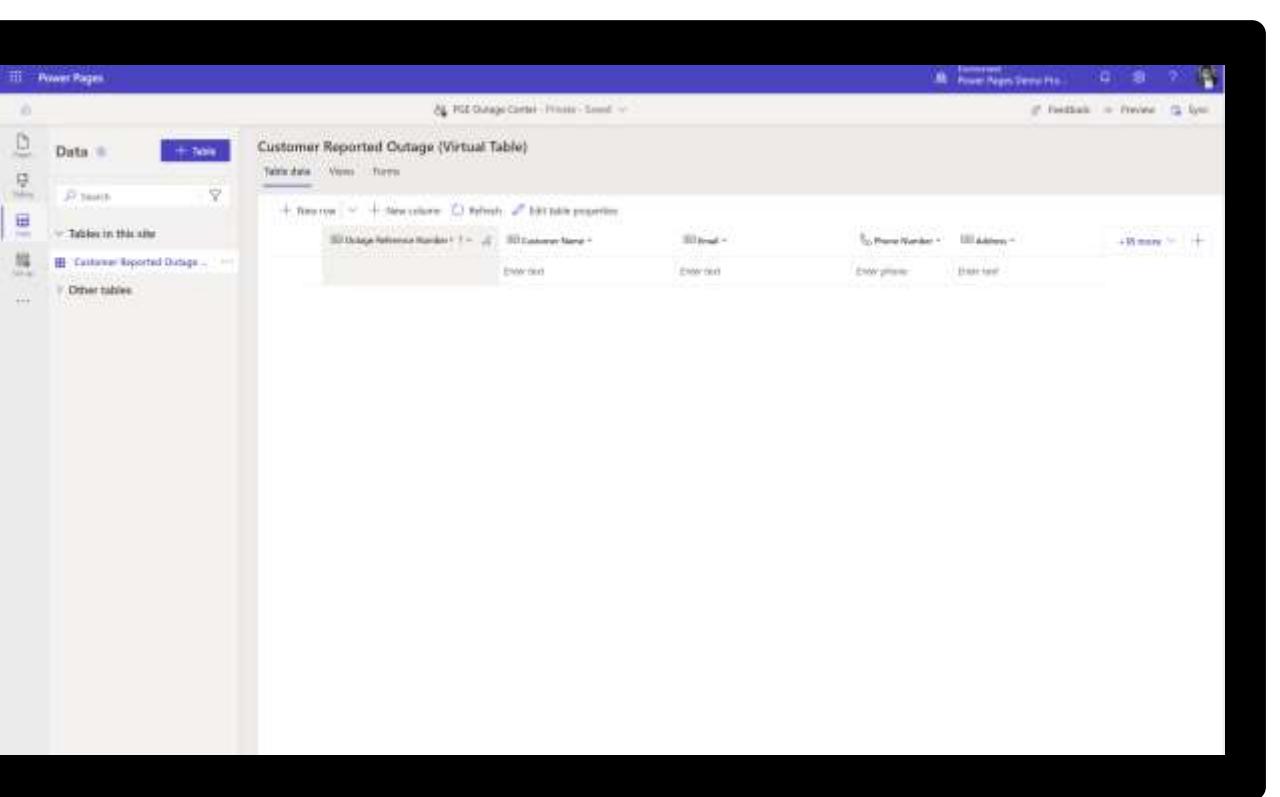
Power Pages utiliza Microsoft Dataverse



O Dataverse é a plataforma de dados low-code da Microsoft

- O Dataverse extrai perfeitamente dados de uma variedade de fontes e armazena esses dados em uma única fonte de verdade que é executada **na segurança do Azure**, habilita análises simplificadas e vem equipada com automação interna.
- Os dados do Dataverse são usados para executar **rapidamente o Power Pages**, aproveitando os mesmos componentes utilizados nas apps Model Driven
- O Power Pages não tem seu próprio armazenamento de dados, portanto, **não há atraso de sincronização** e a interação de dados em tempo real no Dataverse permite que você aja, automatize e avalie com as demais soluções da Power Platform.

Fontes de dados externas: tabelas virtuais



Generally Available

O suporte para Tabelas Virtuais do Dynamics 365 F&O permite a interação em tempo real a partir do Power Pages

Public Preview

Suporte para tabelas virtuais com conectores virtuais

- Habilita o suporte para SQL e SharePoint como fontes de dados no Power Pages
- A tabela virtual funciona como tabelas normais e vem com suporte para componentes OOB como formulários, formulários de várias etapas, lista etc.
- Oferece suporte a permissões de tabela (escopo de Contato e Conta), permitindo o acesso a dados em nível de linha

Fontes de dados externas: Fluxos do Power Automate como APIs

```
POST https://demo.powerappsportals.com/_api/cloudflow/v1.0/trigger/ddf31952-b344-4b72-9785-ed3c0b5cafd5
Accept: application/json
Content-Type: application/json; charset=utf-8
Body:
{
    "text": "abc@contoso.com"
}

Response
Cloud flow without response action
HTTP/1.1 Accepted
Content-Type: application/json

Cloud flow with response action
HTTP/1.1 200 OK
Content-Type: application/json
Body
{
    "Name": "Sample Account",
    "Credit On Hold": false,
    "Description": "This is a sample account",
    "Revenue": 50000000
}
```

Permite chamar um fluxo de nuvem do Power Automate de forma segura a partir do site do Power Pages (em visualização)

- Novo gatilho de Power Pages que só seria ativado quando chamado a partir de Power Pages. Nenhum gatilho HTTP necessário.
- Defina qual fluxo pode ser chamado por qual usuário (função Web).
- O fluxo é chamado de forma síncrona como qualquer outra API da Web.

Como vai funcionar:

- Crie um fluxo com Power Pages como gatilho (novo tipo de gatilho).
- Dê permissão a uma função Web para chamar um fluxo específico.
- No site, chame o fluxo como uma API da Web. Passar parâmetros para o fluxo como uma API normal, também inclui contexto OOB padrão, como informações do site e do usuário

Analytics and out-of-box granular security

Obtenha informações sobre o uso do seu site usando provedores de análise padrão do setor



Integração com fornecedores de análise padrão do setor

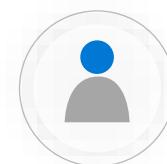
Obtenha informações sobre o comportamento do usuário em seu site integrando provedores de análise padrão do setor, como insights de aplicativos do Azure, Google Analytics, Microsoft Clarity, etc..

Gerencie a exposição de dados – do nível da tabela ao nível da coluna – com permissões de tabela



Confie na sua plataforma de dados

O Dataverse é executado no SQL TDE e é compatível com FIPS 140-2 (com criptografia e descriptografia em tempo real) e arquivos de log para dados em repouso.



Os dados certos para as pessoas certas

Cada usuário autenticado do site é associado exclusivamente a um registro de contato no Dataverse, o que permite recursos como o gerenciamento de perfis para garantir que as pessoas tenham acesso apenas aos dados para os quais têm permissões.

Segurança e governança aprimoradas

Suporte integrado para autenticação



Autorização baseada em função



Checklist do Go Live



Integração com o Azure Web Application Firewall



Sites mais rápidos com suporte à Content Delivery Network



Controle total sobre quem torna o site público



Additional recommended content

Tutorials and training

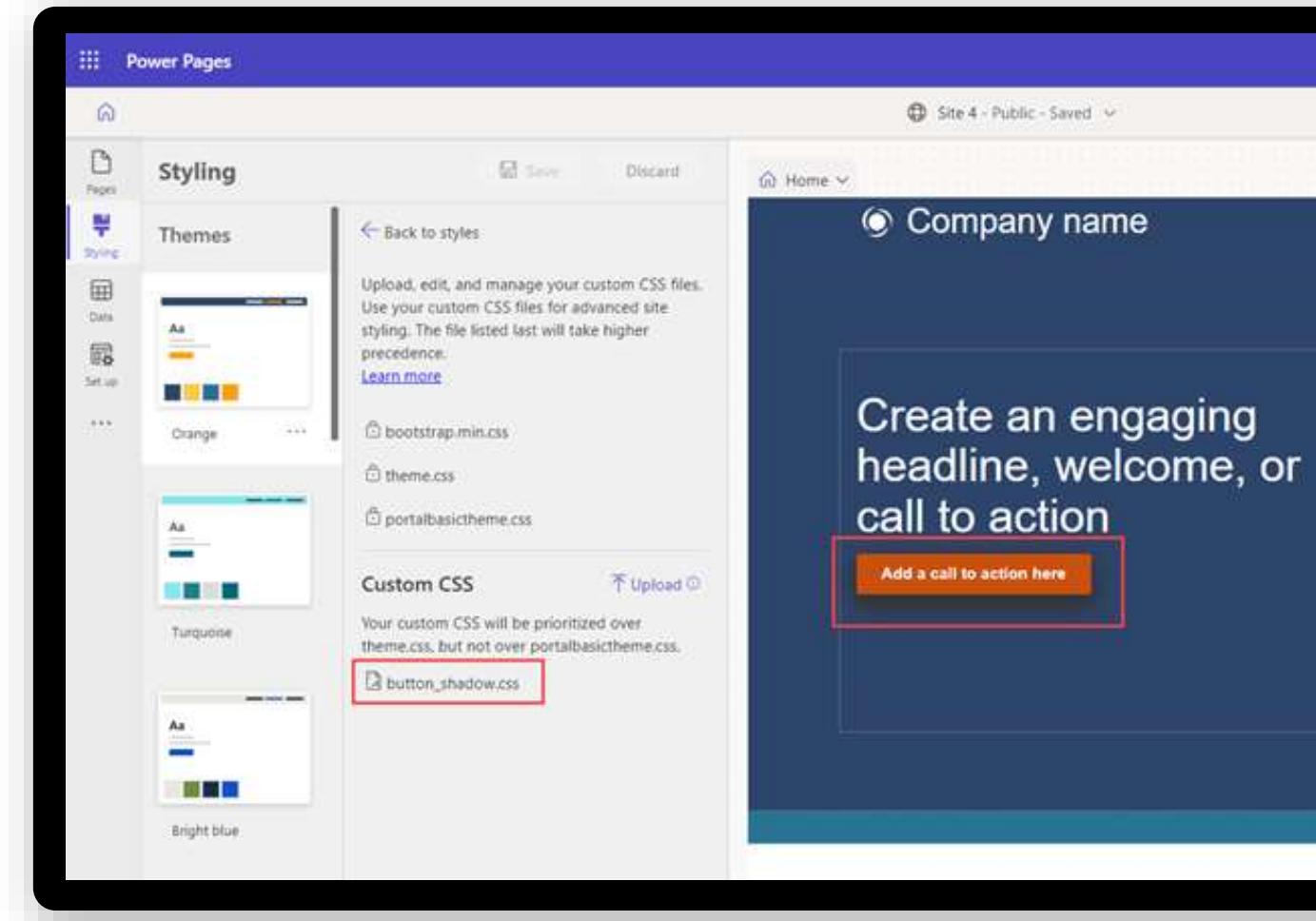
Get started quickly

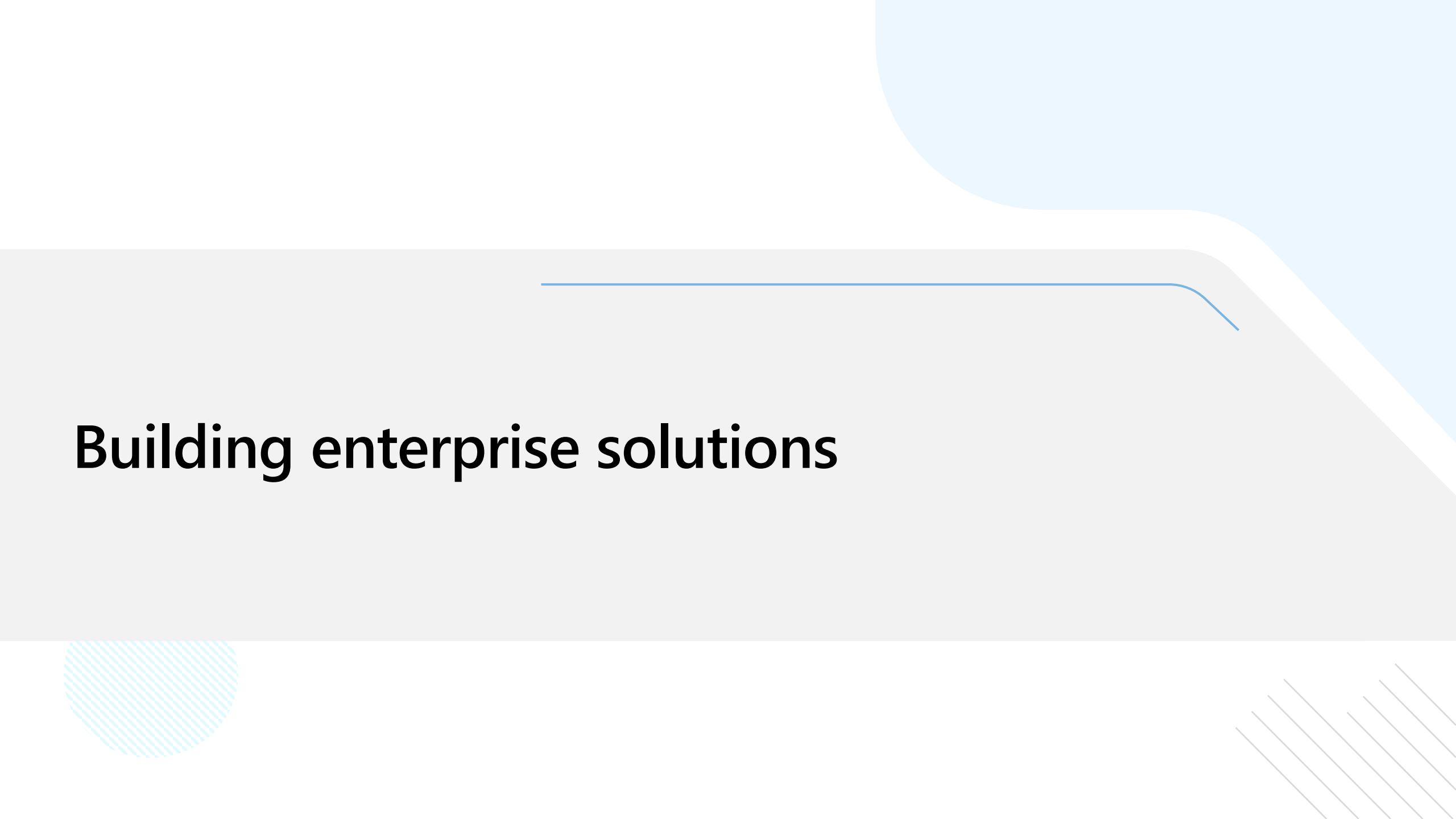
- [Get started with Power Pages tutorials](#)
- [Power Pages training videos](#)

Technical walkthroughs

Learn with our technical team

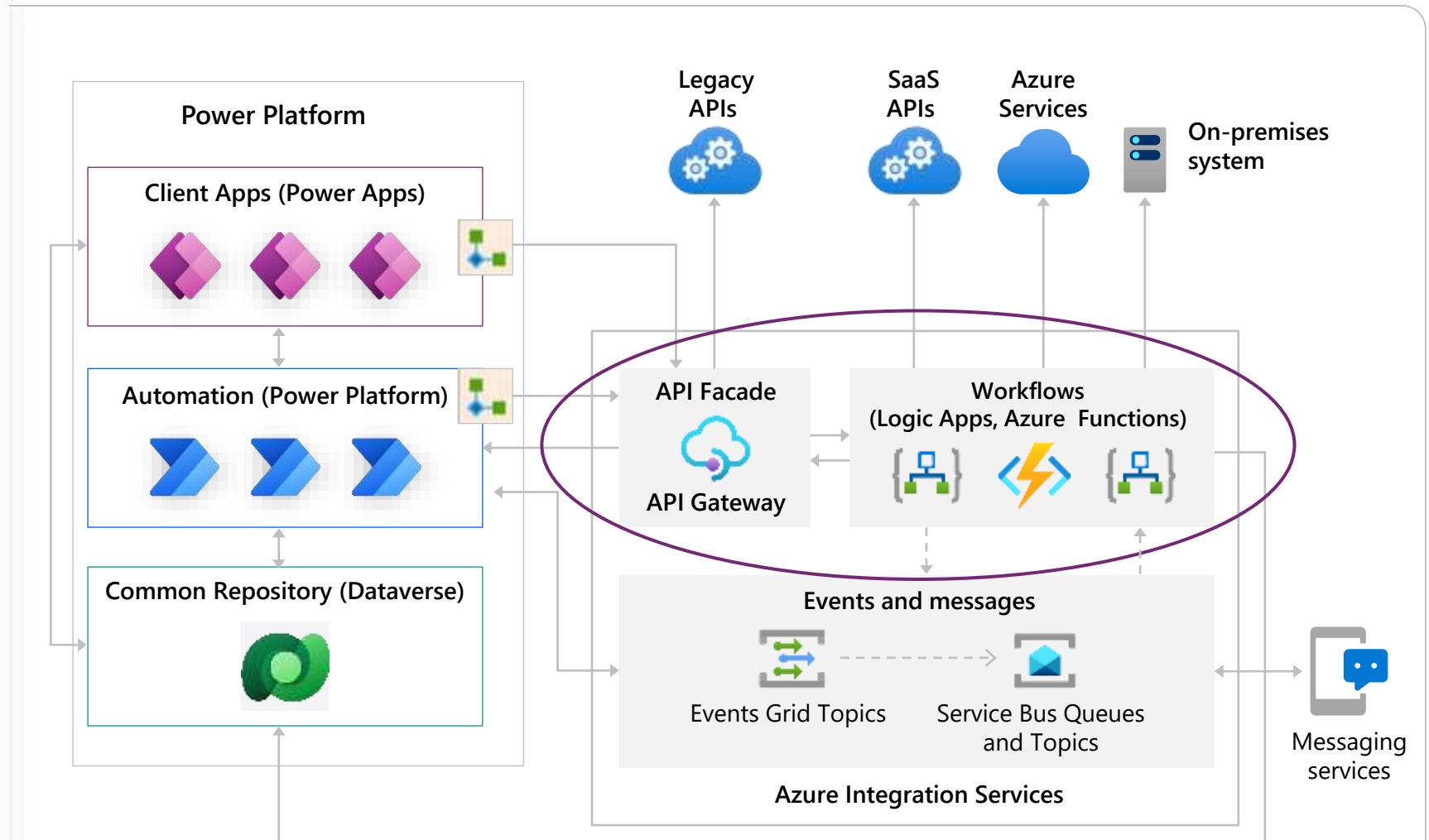
- [Power Pages Governance and Admin](#)
- [Introduction to Table Permissions, Web Roles, Users](#)
- [Power Pages Run Everywhere with Progressive Web Apps](#)





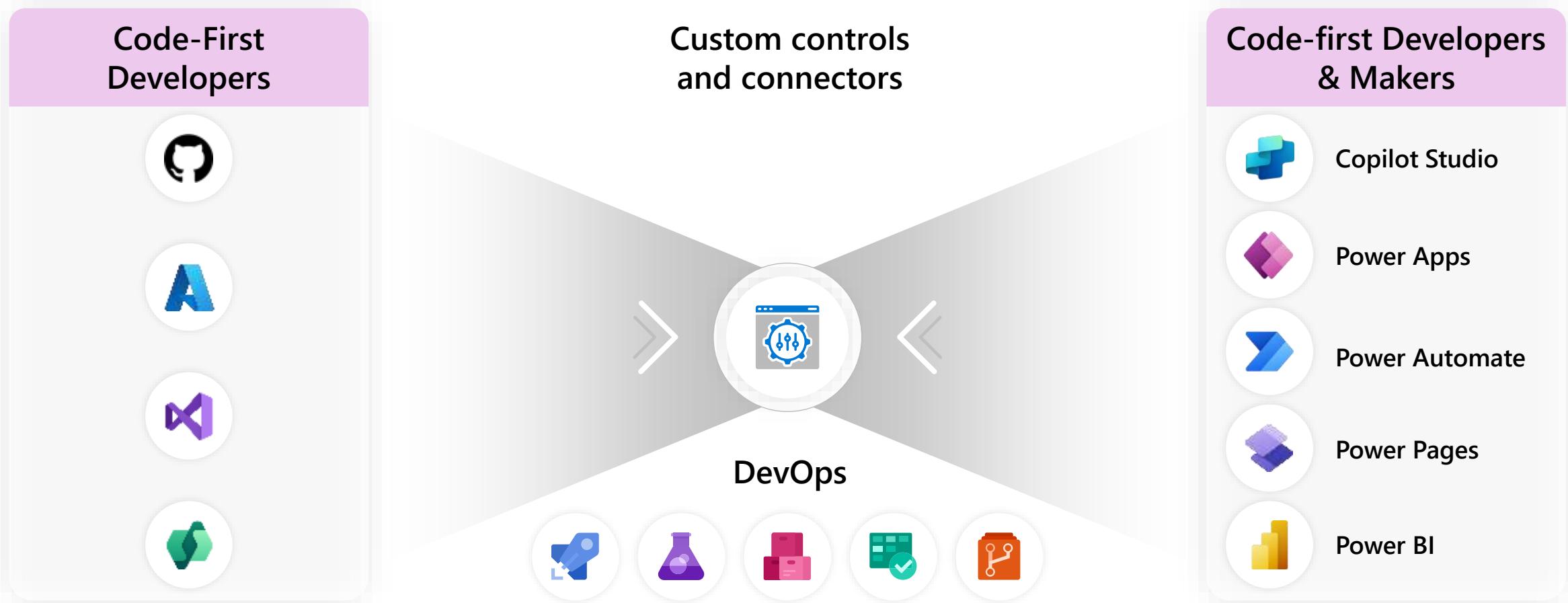
Building enterprise solutions

Enterprise solutions can be a little of everything...



Integration services are a gateway to Azure!

Azure + Power Platform = Rapid Application Development



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.

Build Custom Components with the Power Apps Component Framework

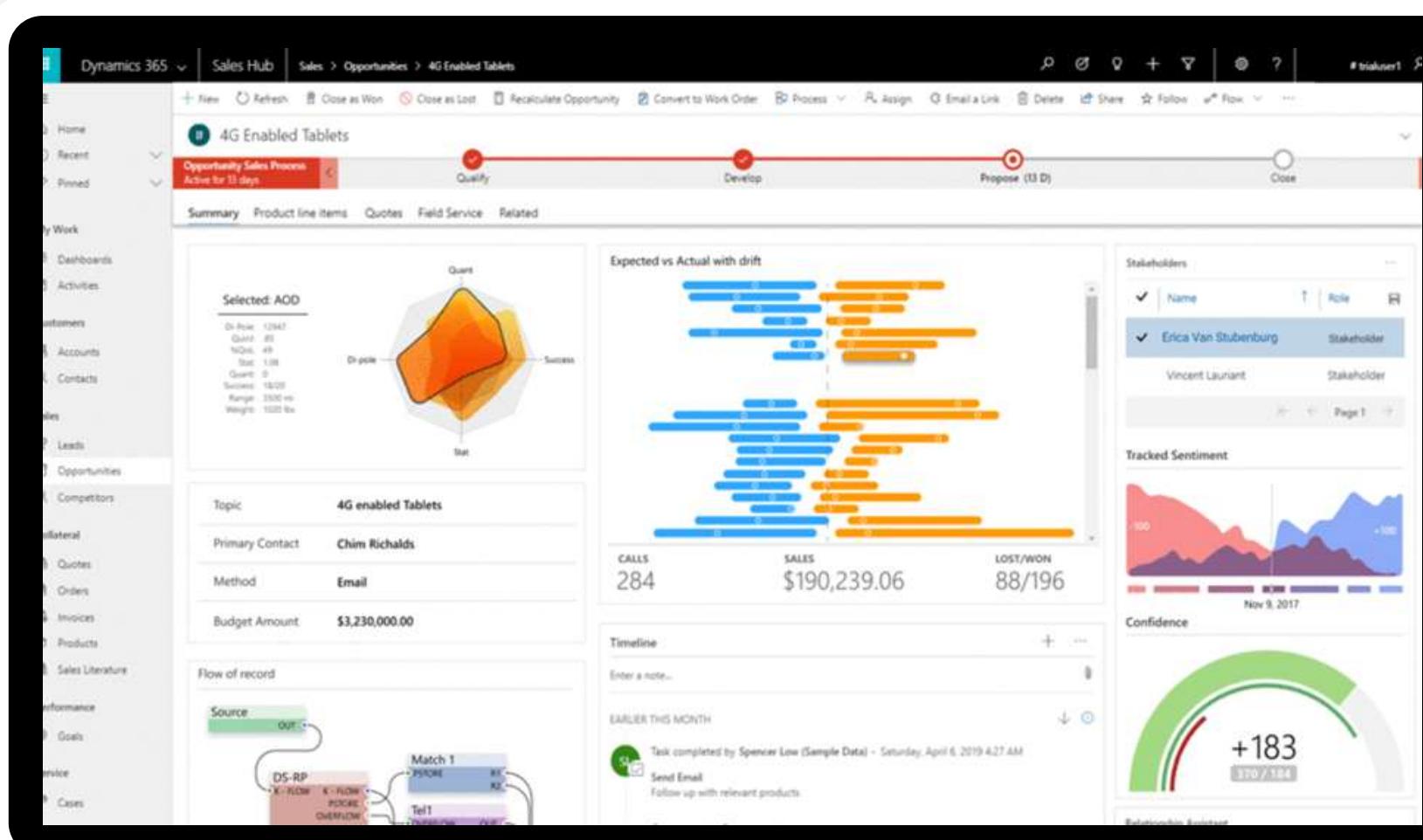
Developers can build compelling visual components for Power Apps

Custom components are responsive, reusable and support multiple form factors

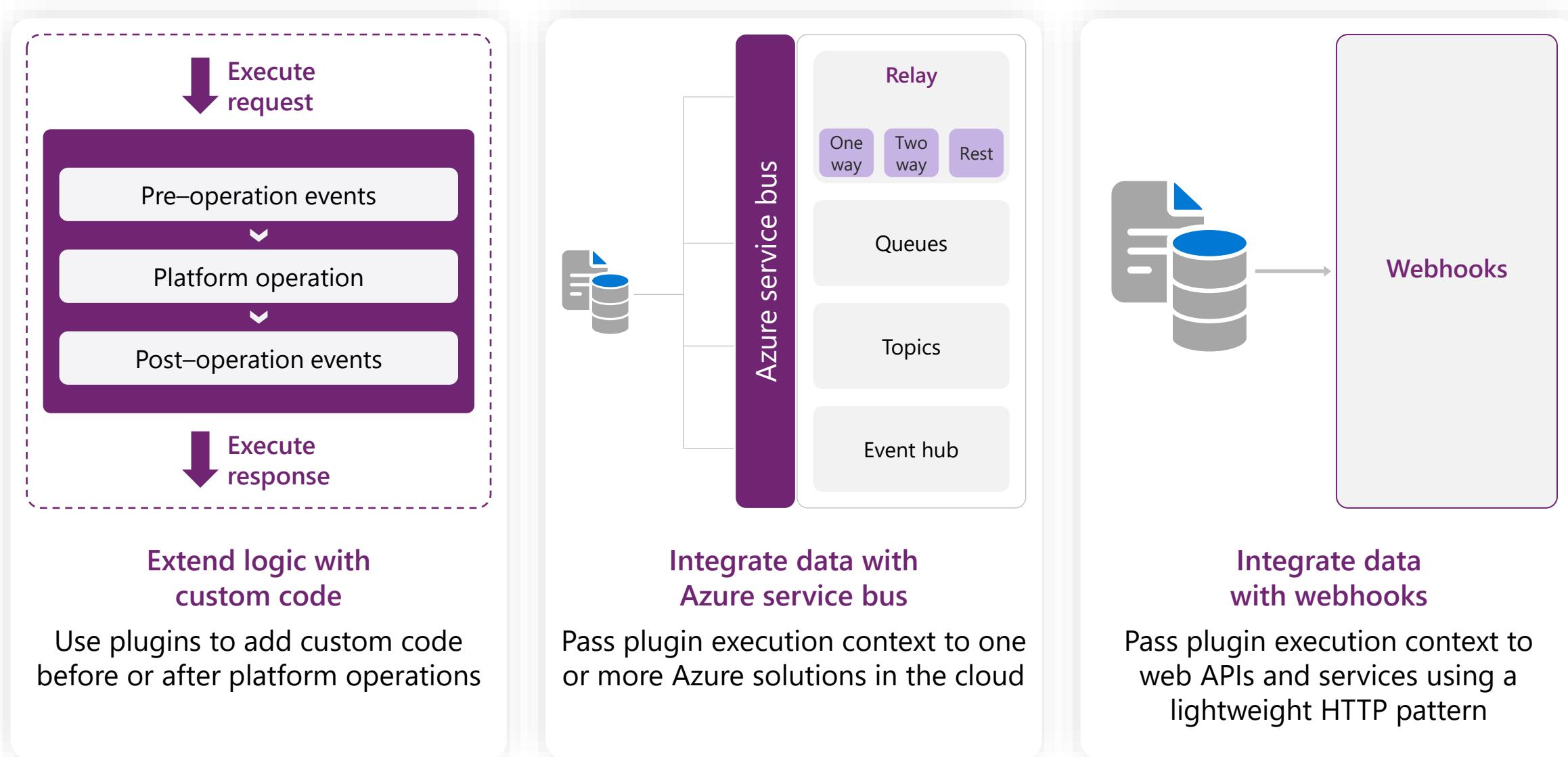
Reuse your current IP and skills—framework is based on standard web technologies TypeScript/JS, CSS and HTML5

React and fabric support available in preview

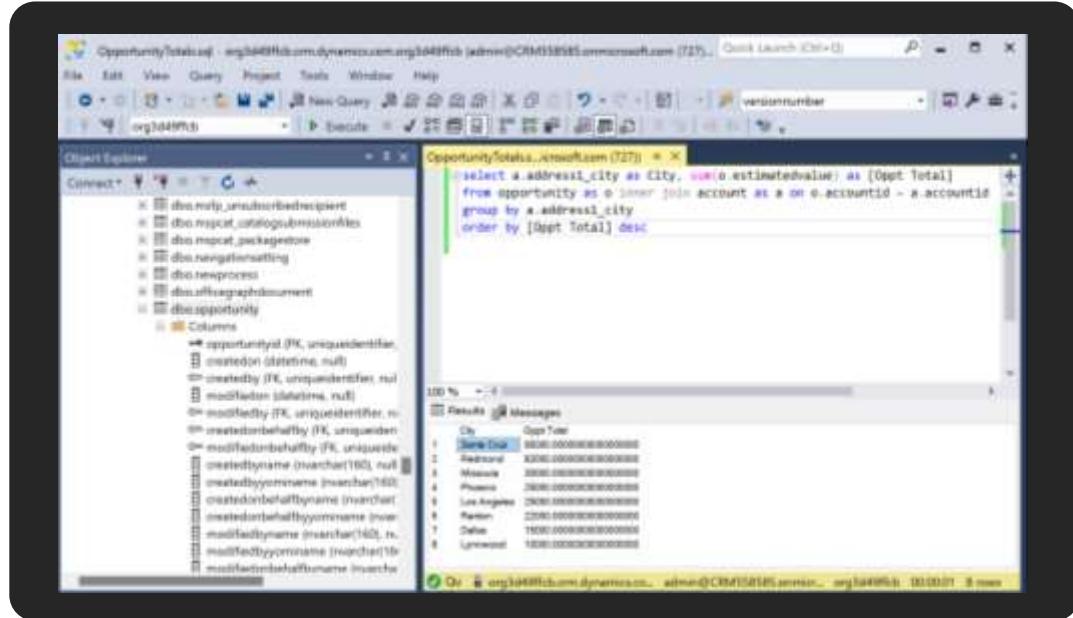
[Learn more!](#)



Service-side Extensibility for Dataverse



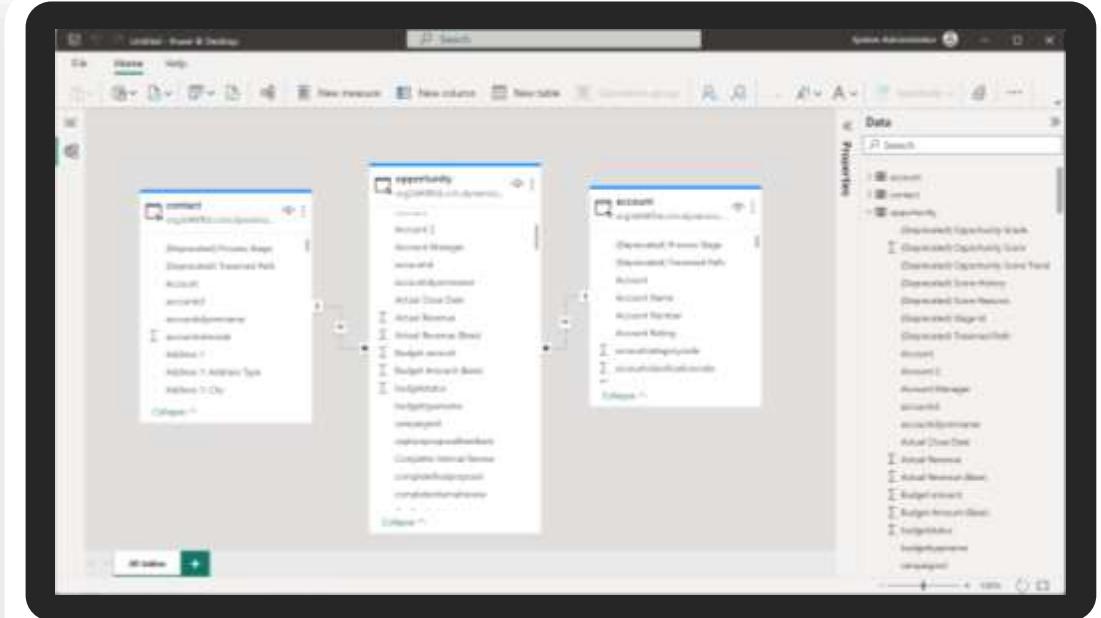
More Powerful Data Tools for Dataverse



T-SQL endpoint for
Microsoft Dataverse

SQL Server Management
Studio WORKS!

AAD auth means all
security WORKS!
(e.g. RLS trimming)



Microsoft Dataverse Direct
Query for Power BI

The full stack runs –
e.g. security and rules

Entity Framework
WORKS!

Virtual Connection Provider

Make the process of creating virtual tables easier by letting Dataverse do some of the work for you

Virtual tables connect to existing data outside of Dataverse and allows you to access it within an app so you no longer need to:

- Create plug-ins for APIs
- Create Service Principles
- Search for which tables/lists are compatible in your data source

Virtual Table Creation Wizard

Set up your connection, pick your site or database, select your list or SQL table and your virtual table will appear ready to use!

The screenshot shows the Microsoft Power Apps portal interface. At the top, there's a purple header bar with the Microsoft logo, a search bar, and navigation links. Below the header, a main content area has a purple banner that reads "Build business apps, fast" and "Create apps that connect to your data and work across web and mobile. [Learn about Power Apps](#)". Underneath this, there's a section titled "Start from:" with five options: "Blank app", "Dataverse", "SharePoint", "Excel", and "SQL". Each option has a small icon, a title, a brief description, and a "Watch video" link. Below these, there's a "Learning for every level" section with four cards: "Get started with Power Apps" (Beginner, 31 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), and "Manage and share apps in Power Apps" (Beginner, 42 mins). At the bottom, there's a "Your apps" section with a table showing two items: "Asset Checkout" and "Innovation Challenge". The "Asset Checkout" row includes columns for Name, Modified, Owner, and Type, with values like "1 wk ago", "Frank Lin", and "Model-driven". A yellow bar at the bottom of this section says "2 connection references needs to be updated".

In Preview

[Click here for more info](#)

Leverage existing Skills and Code Investments

Use the tools you're familiar with

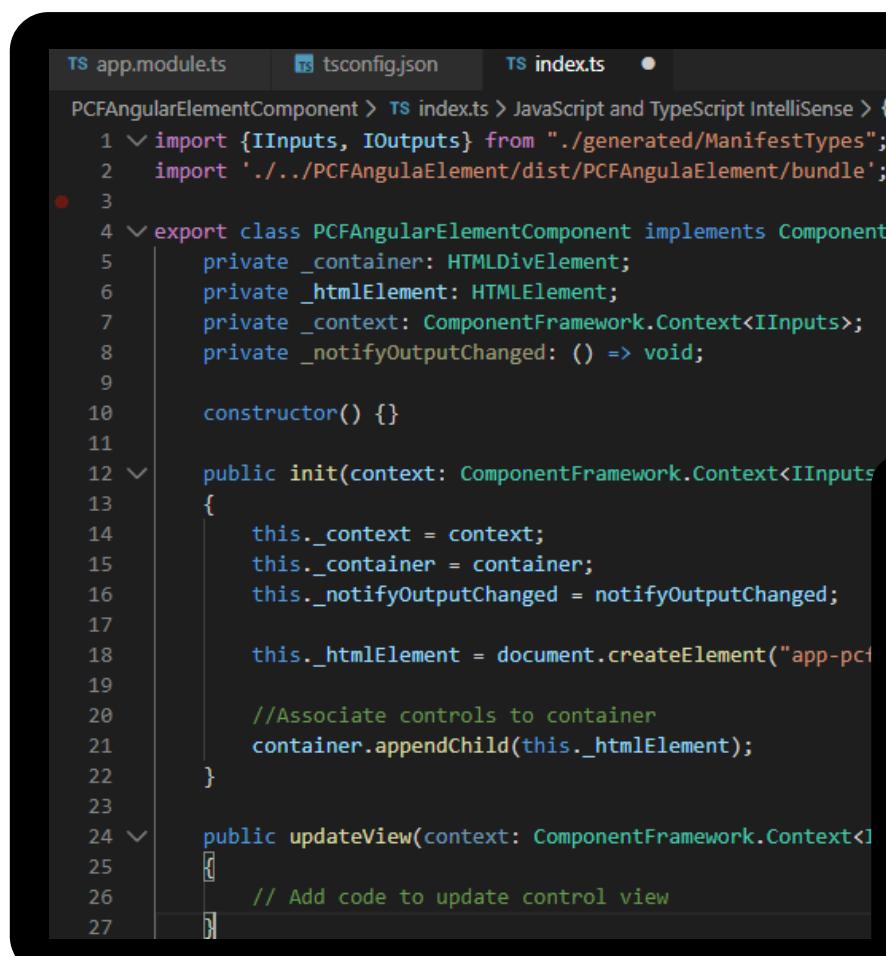
Extension for visuals in the Power Platform is based on TypeScript

Developers can use Visual Studio or Visual Studio Code

APIs with many helper functions

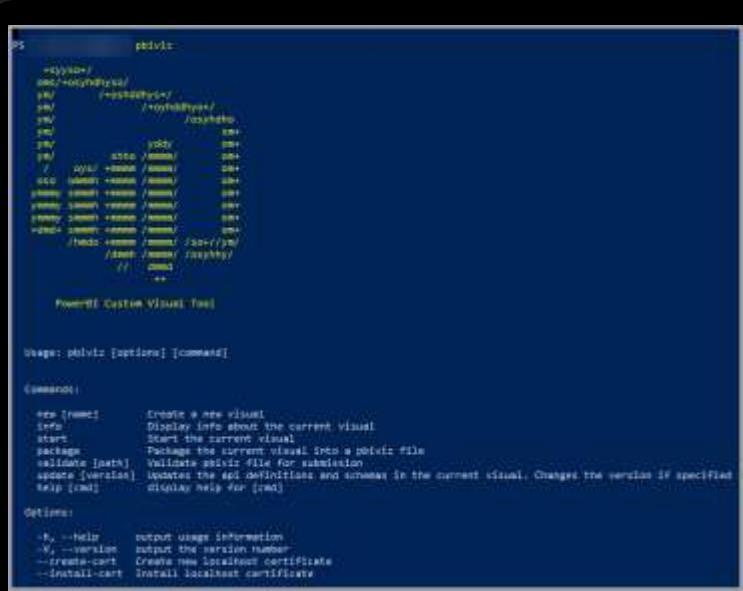
Use common frameworks like React

Command-line tools for building and testing



The screenshot shows a code editor with three tabs: `app.module.ts`, `tsconfig.json`, and `index.ts`. The `index.ts` tab is active, displaying the following TypeScript code:

```
PCFAngularElementComponent > TS index.ts > JavaScript and TypeScript IntelliSense > {} "index" > PCFAngularElementComponent > updateView
1 import {IInputs, IOOutputs} from "./generated/ManifestTypes";
2 import './../../../PCFAngularElement/dist/PCFAngularElement/bundle';
3
4 export class PCFAngularElementComponent implements ComponentFramework.StandardControl<IInputs, IOOutputs> {
5     private _container: HTMLDivElement;
6     private _htmlElement: HTMLElement;
7     private _context: ComponentFramework.Context<IInputs>;
8     private _notifyOutputChanged: () => void;
9
10    constructor() {}
11
12    public init(context: ComponentFramework.Context<IInputs>){
13        this._context = context;
14        this._container = container;
15        this._notifyOutputChanged = notifyOutputChanged;
16
17        this._htmlElement = document.createElement("app-pci");
18
19        //Associate controls to container
20        container.appendChild(this._htmlElement);
21    }
22
23
24    public updateView(context: ComponentFramework.Context<IInputs>){
25        // Add code to update control view
26    }
27}
```



The command-line interface shows the following help text for the `pbivt` command:

```
Usage: pbivt [options] [command]

Commands:
  new [name]      Create a new visual
  info            Display info about the current visual
  start           Start the current visual
  package         Package the current visual. Spans a package file
  validate [path] Validate manifest file for submission
  update [version] Updates the apx definitions and schema in the current visual. Changes the version if specified
  help [cmd]       Display help for [cmd]

Options:
  -h, --help      Output usage information
  -v, --version   Show the application version
  --create-crt   Create a new localhost certificate
  --install-crt  Install localhost certificates
```

Why Host Logic in Azure?

Azure provides an extensibility surface for hosting many different types of logic

APIs for connecting to modern or legacy systems

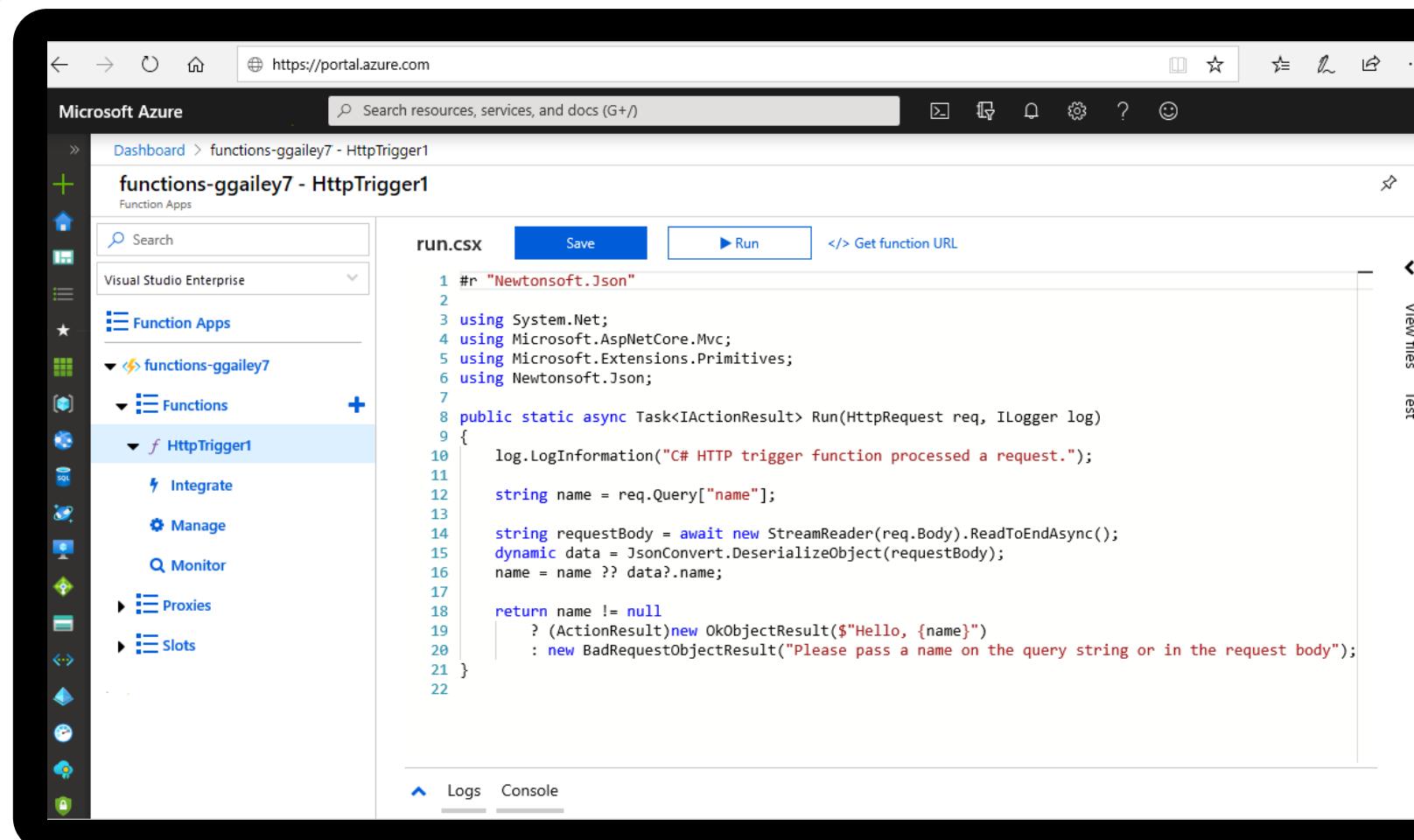
APIs and Functions for hosting and running custom logic

Data storage and compute

Environment for data scientists to build, deploy, and share advanced analytics solutions

Bot Framework Composer for deep integration with Azure services like LUIS and QnA maker

Build apps as a guest in another tenant for increased collaboration across subsidiaries and partners with Azure B2B Maker



The screenshot shows the Microsoft Azure portal interface. The left sidebar navigation bar includes icons for Home, Function Apps, Storage, SQL, and more. Under 'Function Apps', 'functions-ggailey7' is selected, and under 'Functions', 'HttpTrigger1' is selected. The main content area displays the 'run.csx' file code:

```
1 #r "Newtonsoft.Json"
2
3 using System.Net;
4 using Microsoft.AspNetCore.Mvc;
5 using Microsoft.Extensions.Primitives;
6 using Newtonsoft.Json;
7
8 public static async Task<ActionResult> Run(HttpContext req, ILogger log)
9 {
10    log.LogInformation("C# HTTP trigger function processed a request.");
11
12    string name = req.Query["name"];
13
14    string requestBody = await new StreamReader(req.Body).ReadToEndAsync();
15    dynamic data = JsonConvert.DeserializeObject(requestBody);
16    name = name ?? data?.name;
17
18    return name != null
19        ? (ActionResult)new OkObjectResult($"Hello, {name}")
20        : new BadRequestObjectResult("Please pass a name on the query string or in the request body");
21}
22
```

Below the code editor are tabs for 'Logs' and 'Console'.

Power Apps + Azure API Management

Empower developers with no-cliff extensibility from Teams and Power Platform to Azure

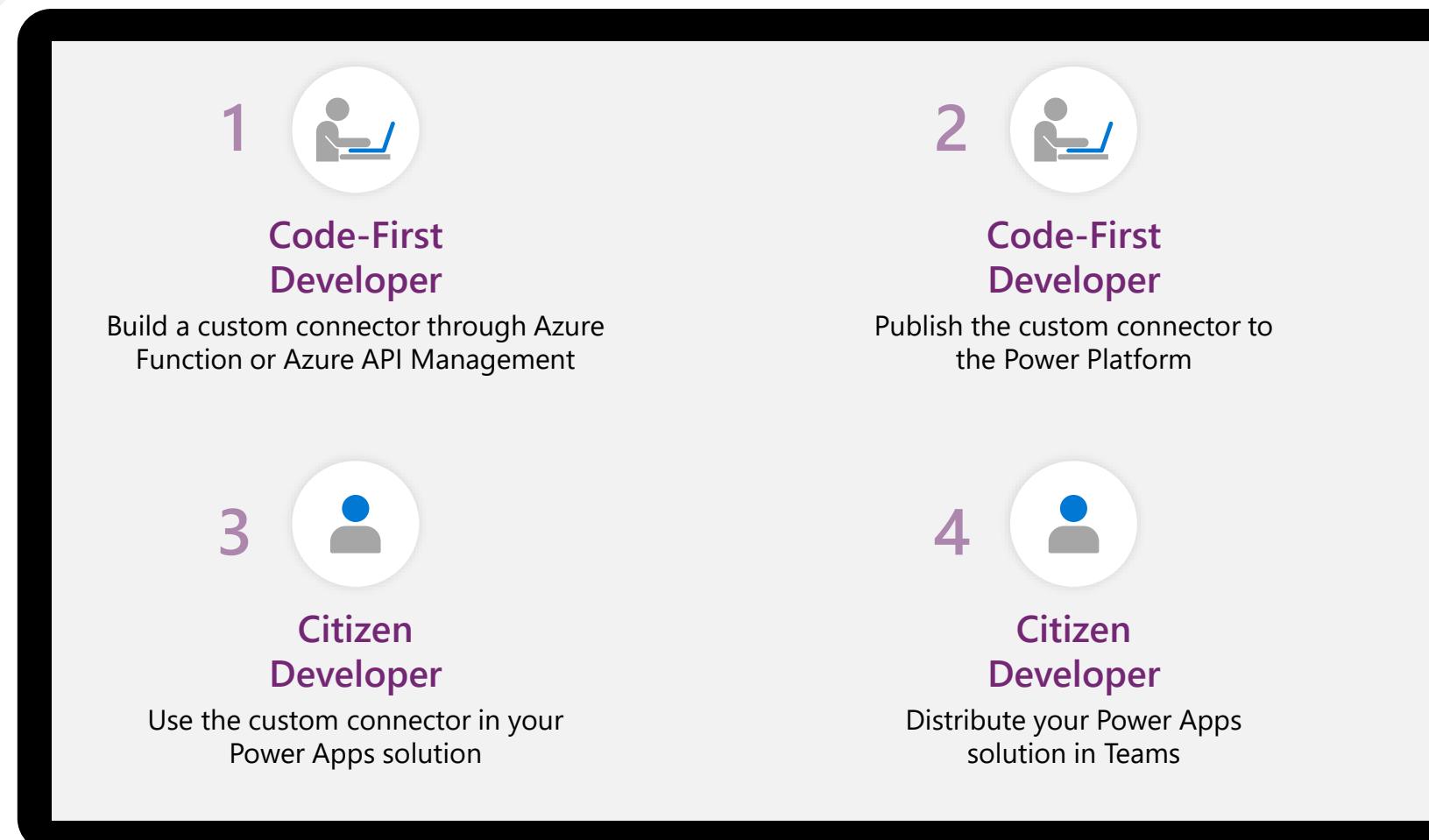
Extend and distribute your Azure APIs as Power Platform connectors

Create custom connectors to unlock access to any Microsoft cloud hosted data source

Seamlessly push custom connectors to dedicated Power Platform environments for easy discovery in Power Apps

Leverage Azure Functions and Azure API Management to enable citizen developers to distribute Power Apps in Teams at no additional licensing cost

Automatically create a Power App from a REST API

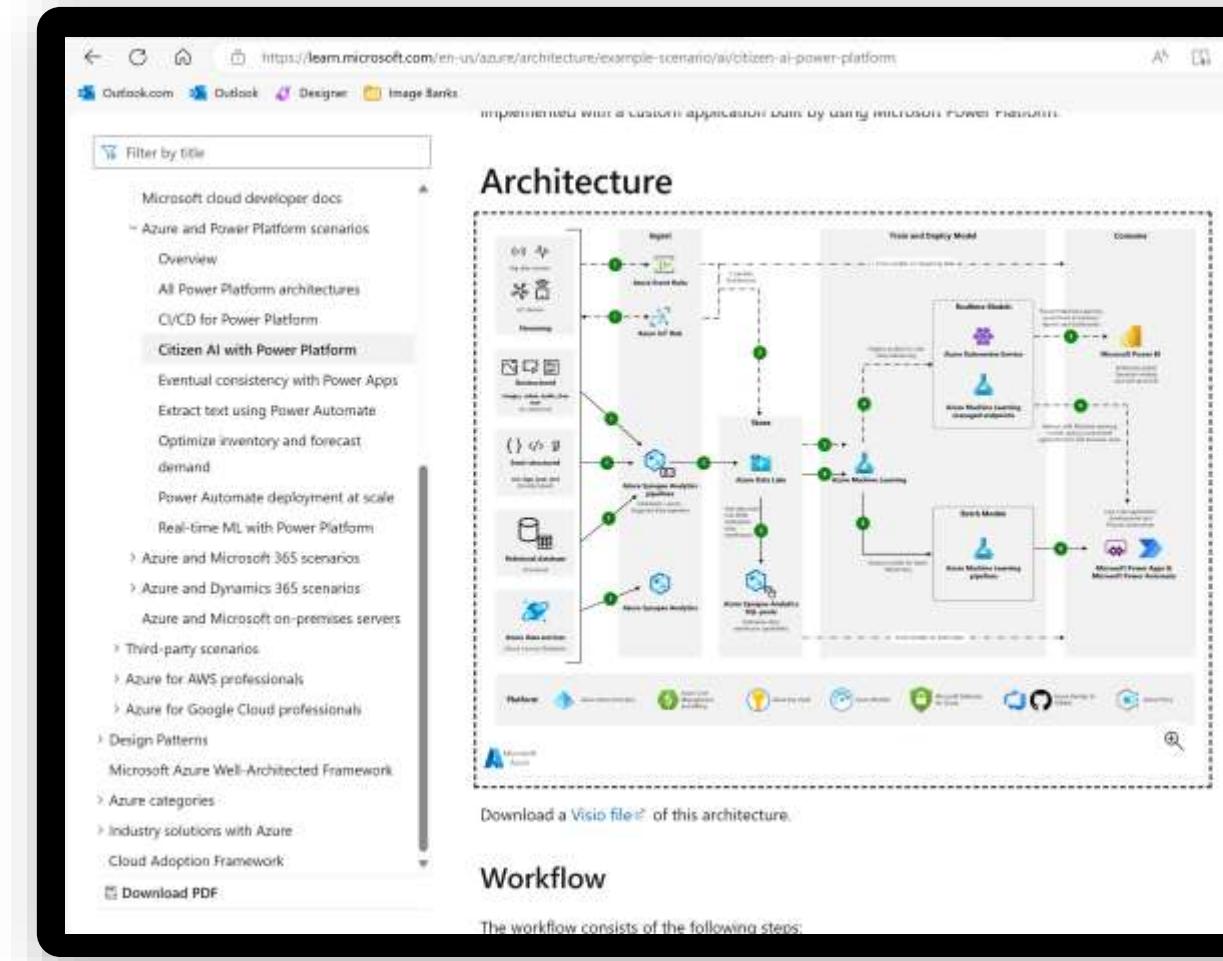


Additional recommended content

Azure and Power Platform scenarios

Solutions and architectures that use Power Platform together with Azure services.

[Learn more!](#)



Next steps

A large white and blue supply vessel, the 'PACIFIC SHARAV', is shown sailing on dark blue ocean waves under a clear sky. The ship's superstructure is visible, featuring multiple levels of walkways, ladders, and equipment. A tall metal lattice mast stands prominently on the deck.

~~"Como criamos um aplicativo mais rápido?"~~

**“Como transformar 1.000
processos por ano?”**

Make it Real!

“Como transformar 1.000 processos por ano?”



1

Cultura

Patrocínio executivo de cima para baixo em TI e LOB. [Mudança de cultura](#) para convidar e conectar LOB com TI e Pro Devs para participar da criação de soluções

2

Fundação de TI

Liderança de TI [no centro de excelência](#) e orientação para governança, segurança, orçamento e adoção para ambientes centralizados ou distribuídos

3

Pro Developers

Desenvolvedores profissionais [reformulando fluxos](#) de trabalho para dimensionar e interagir com operadores de informações de LOB em soluções novas e existentes

4

LOB

Departamentos identificando "[usuários avançados](#)" para adoção e representação antecipadas e identificando recursos e orçamentos administrativos

5

Formação

Capacitação e capacitação via [hackathons](#) e programas de certificação para adotantes da Power Platform na organização

6

Nurture

Cadências de [qualificação](#) e celebração de soluções ao adotar novas inovações da Power Platform

Executive Sponsor ● Governance Lead ● Adoption Lead ● Community and Skilling Lead ● Power Platform Admin ● Pro Devs ● Architect ● Security

Suporte e recursos externos da Microsoft, parceiros ou consultores profissionais

Basic capabilities

1

Aplicativos e automações em pequena escala

2

Automação pessoal ou somente em equipe

3

Conectividade selecionada pronta para uso

4

Sharepoint, Excel ou Dataverse para equipes

5

Opções limitadas para compartilhar e reutilizar soluções já criadas



Resolva problemas apenas para equipes ou indivíduos

Ganhos de eficiência limitados a indivíduos, equipes ou pequenos departamentos.

A necessidade de troca de solução, entrada de dados repetida e risco de dados ruins

Permite estruturas de dados simples e gerenciamento de acesso limitado a dados.

Construção repetida de aplicativos e automações semelhantes, perda de eficiência.

Premium investment

1

Aplicativos e soluções podem se estender por toda a organização



Dimensionamento rápido e fácil, ganhos de eficiência e melhorias de desempenho

2

Automações entre sistemas e departamentos



Resolução acelerada de problemas, trabalho mais rápido e menor necessidade de repasses manuais.

3

Conecte tudo



Dados conectados significam resolução rápida de tarefas e menos esforço na manutenção de dados.

4

Dataverse



Gerencie dados e aplicativos para obter insights, impulsionar o negócio e reduzir custos.

5

Compartilhamento e dimensionamento fáceis e gerenciáveis



As pessoas que precisam dos aplicativos e dados podem ser concedidas facilmente sem medos.

Impacto do Power Platform premium



Revenue

4-5x growth

Companies with developer velocity in top quartile experience

McKinsey & Company

[McKinsey & Company - Developer Velocity: How software excellence fuels business performance](#)



Efficiency

23%

Increase in developer efficiency

Forrester

Total Economic Impact of Power Platform Premium Capabilities



Costs

45%

Development cost reduction

63%

Lower costs to develop a large-scale solution using premium connectors and Dataverse

Forrester

Total Economic Impact of Power Platform Premium Capabilities



Agility

63%

Improved agility to changes

Forrester

Total Economic Impact of Power Platform Premium Capabilities



Security

91%

better security and visibility around data connections

Forrester

Total Economic Impact of Power Platform Premium Capabilities

24%

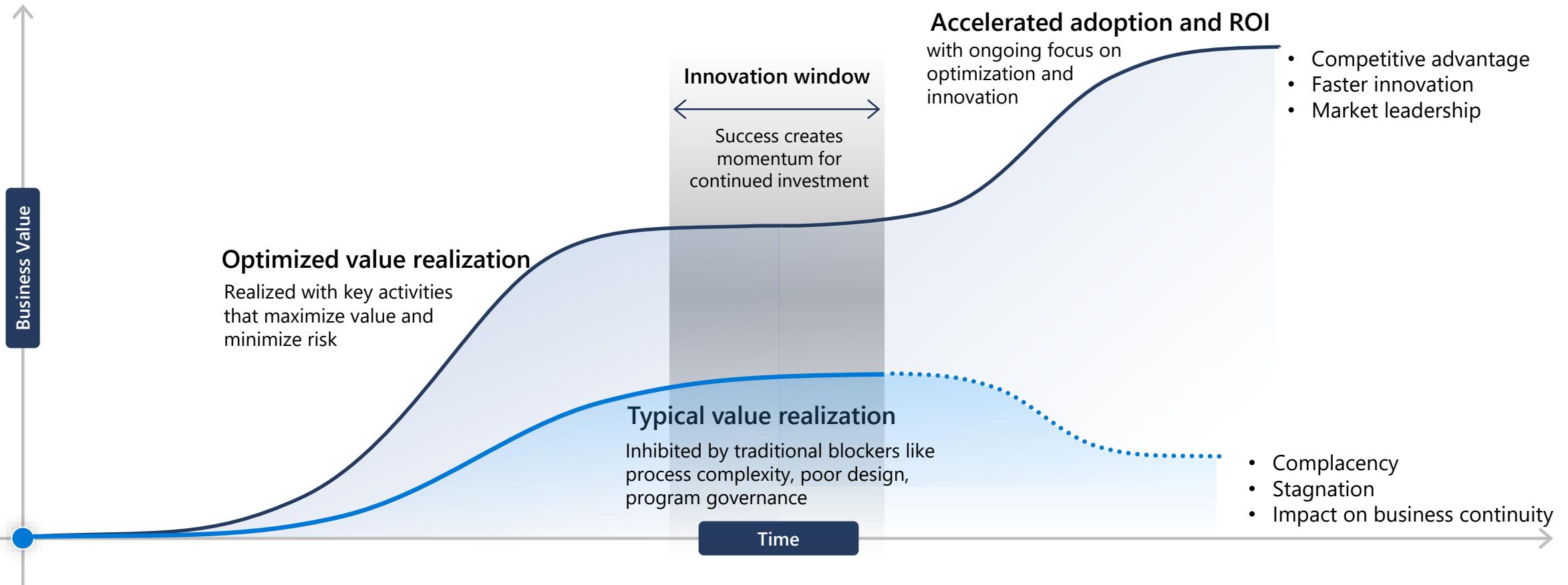
Cost reduction using Power Platform and Azure due increased DevOps efficiency a reducing spending third-party solution

Microsoft

[Microsoft Power Platform and Azure for Corporate IT TEI](#)

Maximize seus investimentos com o Microsoft Unified

Acelere seu tempo de implantação com serviços liderados por especialistas, desde o planejamento até a implantação e muito mais



Conte com especialistas para construir seus aplicativos

Com acesso direto aos especialistas da Microsoft, você pode criar aplicativos personalizados usando o Power Platform para resolver desafios de negócios e automatizar processos de negócios

O que você quer alcançar...

- Estabeleça um modelo de governança e padrões e prepare-se para a IA
- Implantação bem-sucedida da plataforma de energia em toda a empresa
- Validação de processos de projeto e desenvolvimento de arquitetura de soluções

Como entregamos...

- Assistência na criação de um Centro de Excelência (COE) para governar a criação de aplicativos e acelerar a adoção em toda a organização
- Orientação prescritiva de especialistas para acelerar a implantação com workshops de Maker e Developer para melhorar as habilidades da equipe
- Revisões técnicas e funcionais para validar planos e abordar problemas e riscos

Saiba Mais

Visite aka.ms/Enhanced-Solutions para agendarmos uma sessão com objetivo de determinar como nossas **Soluções Aprimoradas** podem ajudá-lo a alcançar os resultados desejados

Continue sua jornada de **conhecimento**

Demonstrações técnicas de Power Platform

Eventos no **Microsoft Teams** conduzidos pelos especialistas em Power Platform da Microsoft Brasil. Para participar procure seu **gestor(a) de conta** (AE) ou **especialista** (SSP).



Desenvolvimento de aplicativos

Tópicos

- Canvas Apps
- Microsoft Dataverse
- Model Driven Apps
- Power Pages

Duração

03 horas

[Saiba mais](#)

Governança e ALM

Tópicos

- Governança
- Segurança
- Monitoramento
- Centro de Excelência (CoE)
- ALM/DevOps

Duração

03 horas

[Saiba mais](#)

Hiper automação

Tópicos

- Process e Task Mining
- Cloud flows (DPA)
- Desktop flows (RPA)
- Gerenciamento e monitoramento
- Hosted machines (VMs SaaS)
- Automações e integrações

Duração

03 horas

[Saiba mais](#)

Criando copilots com Copilot Studio

Tópicos

- Ecosistema Microsoft de copilots
- Visão geral do Copilot Studio
- Recursos baseados em IA generativa
- Automações e integrações

Duração

03 horas

[Saiba mais](#)

Continue sua jornada de **conhecimento**

Power Platform Connect

Site mantido pelos especialistas em **Power Platform** da **Microsoft Brasil**. Nele você encontrará:



Biblioteca de conteúdo

Coleção de links oficiais das soluções que compõem a Power Platform



Eventos online

Eventos online promovidos pela Microsoft ou seus parceiros.

<https://microsoft.github.io/powerplatformconnect>

Microsoft Power Platform Adoption

Saiba como o low code pode **acelerar** sua transformação digital e como adotar de forma **segura** e **eficiente** a Power Platform em toda a sua organização.

A screenshot of the Microsoft Power Platform Adoption website. The page has a purple header with the title "Microsoft Power Platform Adoption". Below the header, there's a section with three main cards: "Adoption workbook" (with a download button), "Adoption best practices" (with a link to learn more), and "Adoption maturity model" (with a link to learn about the model). On the right side, there are images of a smartphone, a laptop, and a desktop screen displaying Power Platform interfaces.

<https://adoption.microsoft.com/en-us/powerplatform/>

Thanks !

Ricardo de Souza

Technology Specialist - Power Platform

✉️ rdesouza@microsoft.com

.linkedin https://www.linkedin.com/in/ricardodesouza/

Additional slides

Power Platform patterns of value

App modernization

Build and update solutions at scale



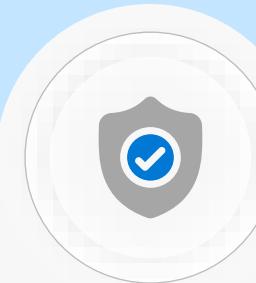
Develop solutions at scale.

Free up limited pro dev resources and enable them to work faster on mission critical solutions.



Build solutions where you work.

Adapt and save money with scalable solutions that solve your greatest business challenges.

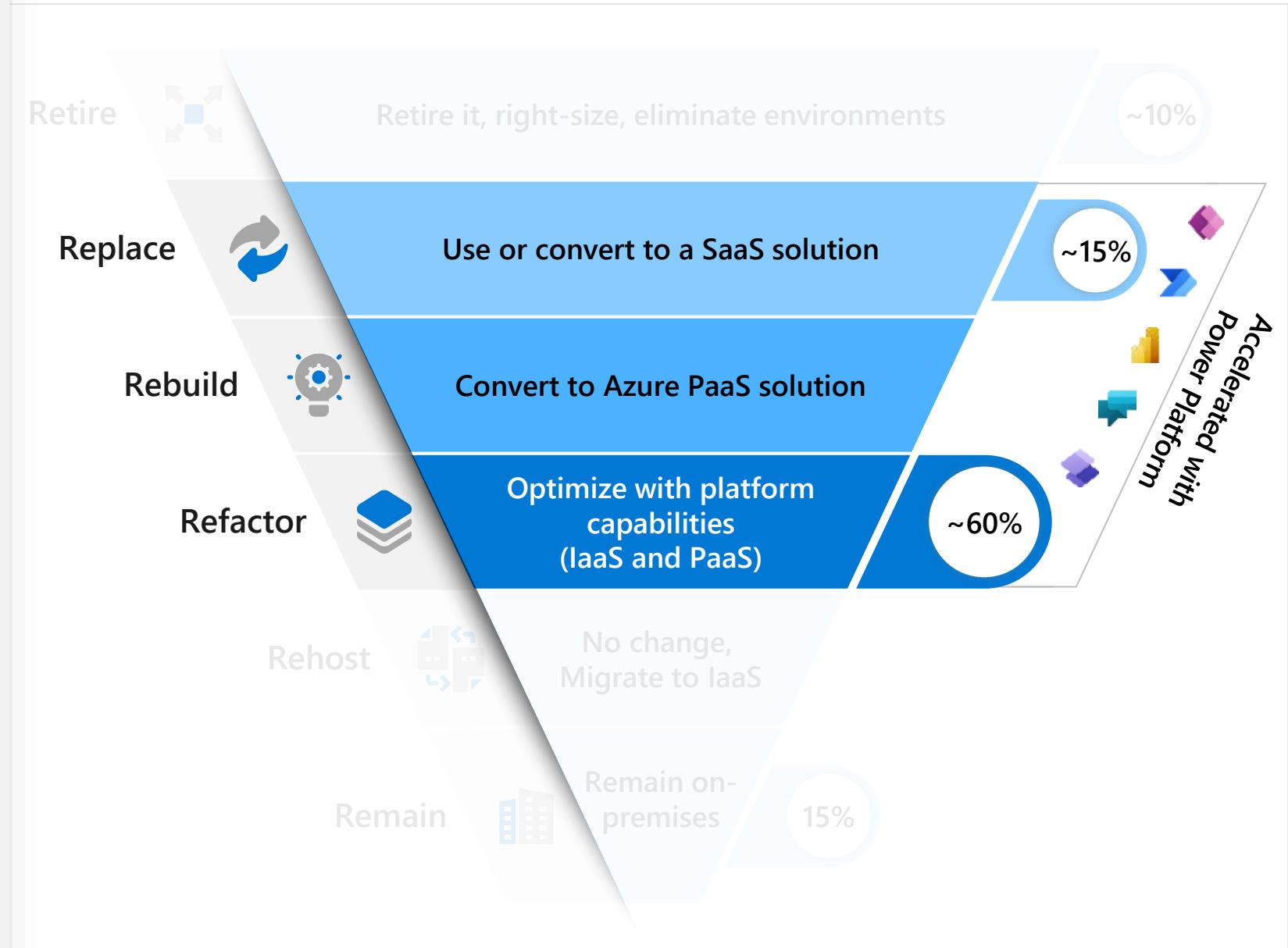


Create secure external websites.

Refresh your existing websites or quickly launch new ones at scale using built-in, easy to use components.

87% of CIOs and IT pros say low-code is very useful in helping their organizations modernize legacy applications.¹

App Building & Modernization



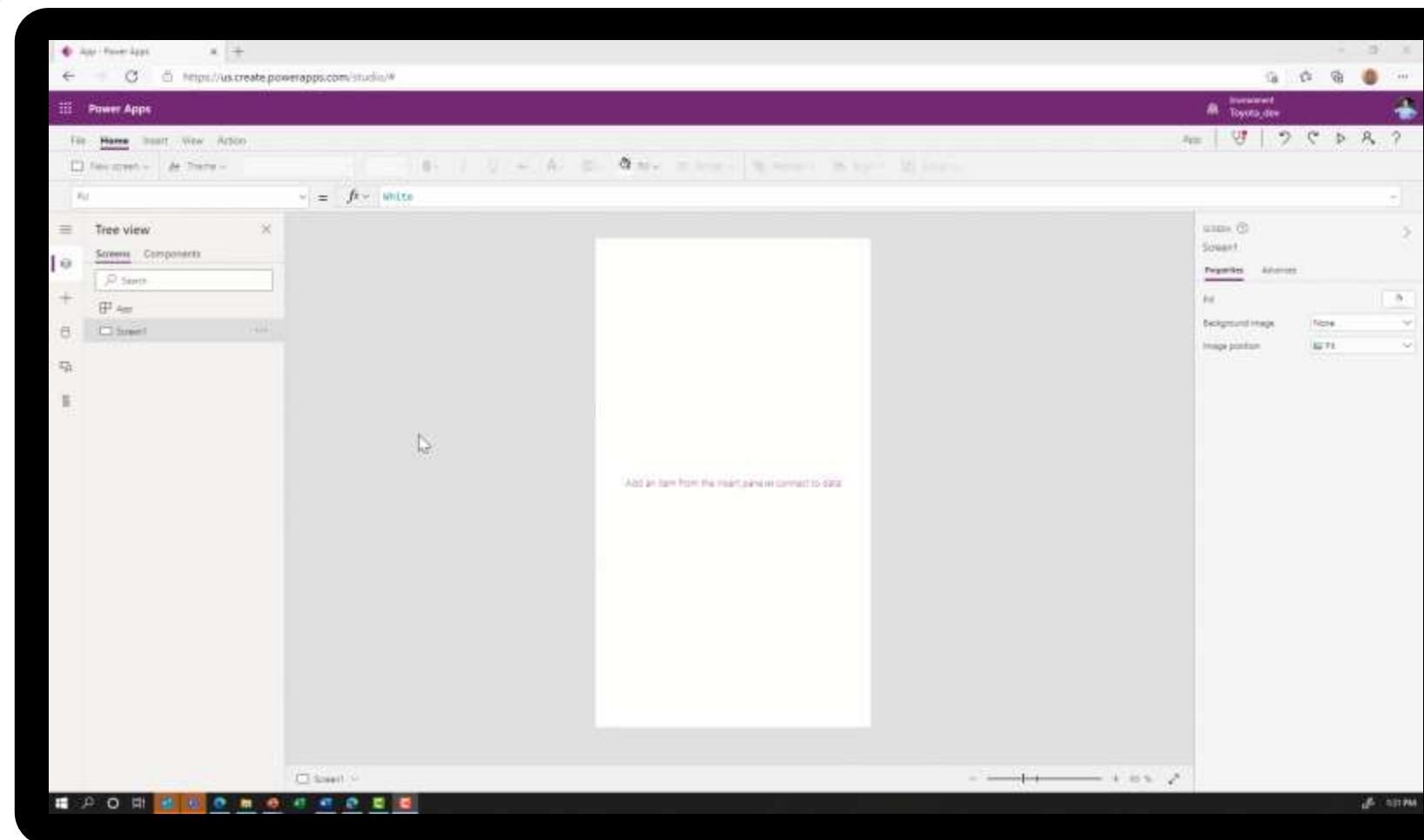
Simplify & accelerate development

Pixel perfect **visual app designer** enables you to build and deploy **professional looking apps faster**

Applications that work across **many form factors: Deploy once, use everywhere**

Integration with **Azure, Visual Studio, and GitHub** enables everyone to build with the **tools they use most**

AI assisted experiences with **natural language to formula generation and apps from images**



Business agility

Improve and extend your core systems



Improve processes and user experience across your company's core systems like SAP, Oracle, and Salesforce.



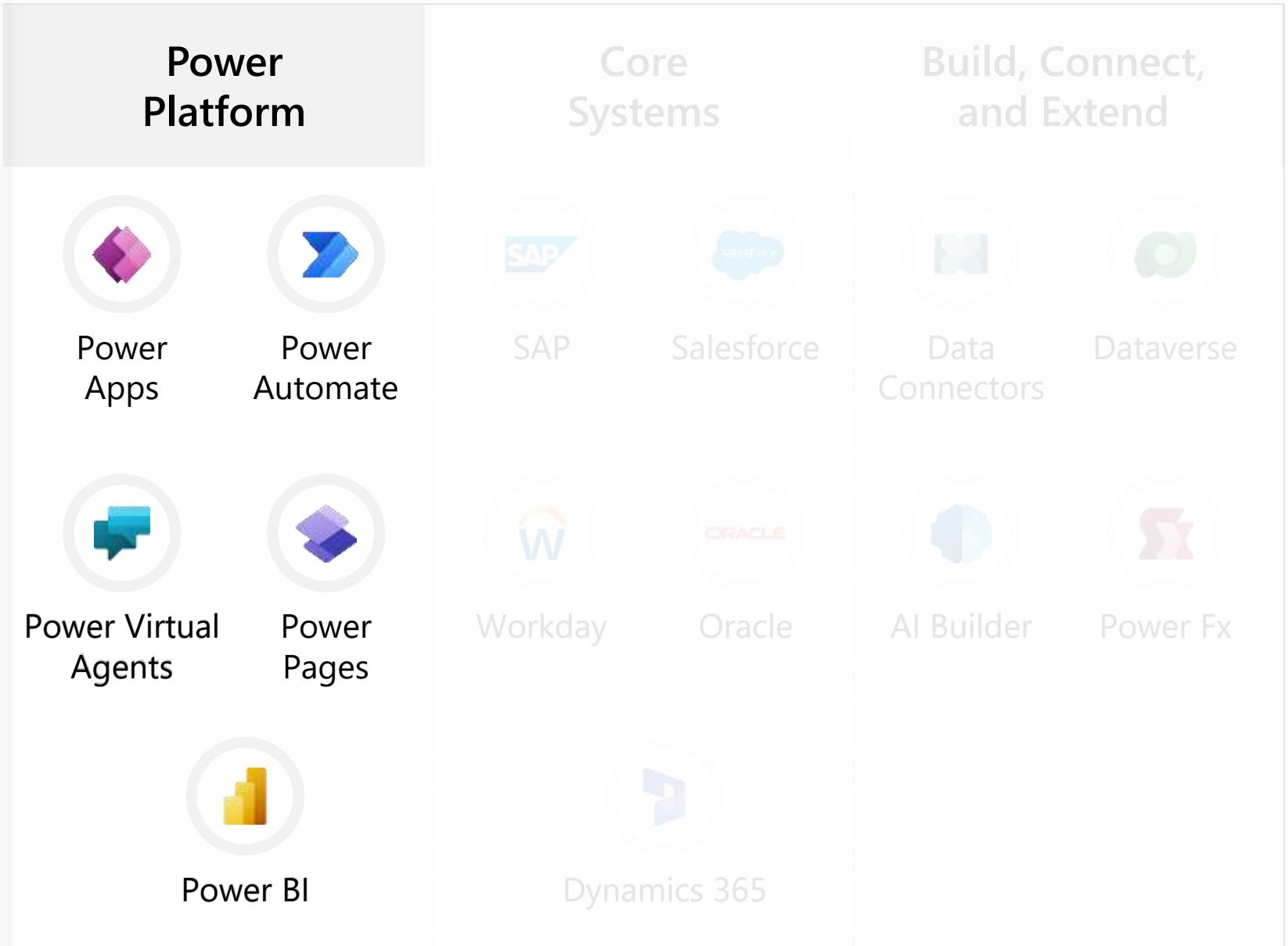
Extend your core systems with apps, flows, external websites, chatbots and dashboards to fill gaps and deliver flexibility.



Get more out of your existing investments with a modern solution that keeps the user experience seamless and extends the life of your core systems.

89% of CIOs and IT pros surveyed say low-code is effective in increasing efficiency.¹

Agility for core business systems



Extend LOB Systems with Power Platform



Build low-code apps, workflows, external websites, chatbots and dashboards to deliver simple, modern and powerful experiences across your data and processes on any device.



Automate processes that span your key line of business systems without the need for complex code using digital and robotic process automation.



Empower users wherever they work by surfacing apps and processes in the productivity tools they use every day, such as Teams and Outlook.



Safeguard mission critical data that supports your core processes with strict security and governance tools.

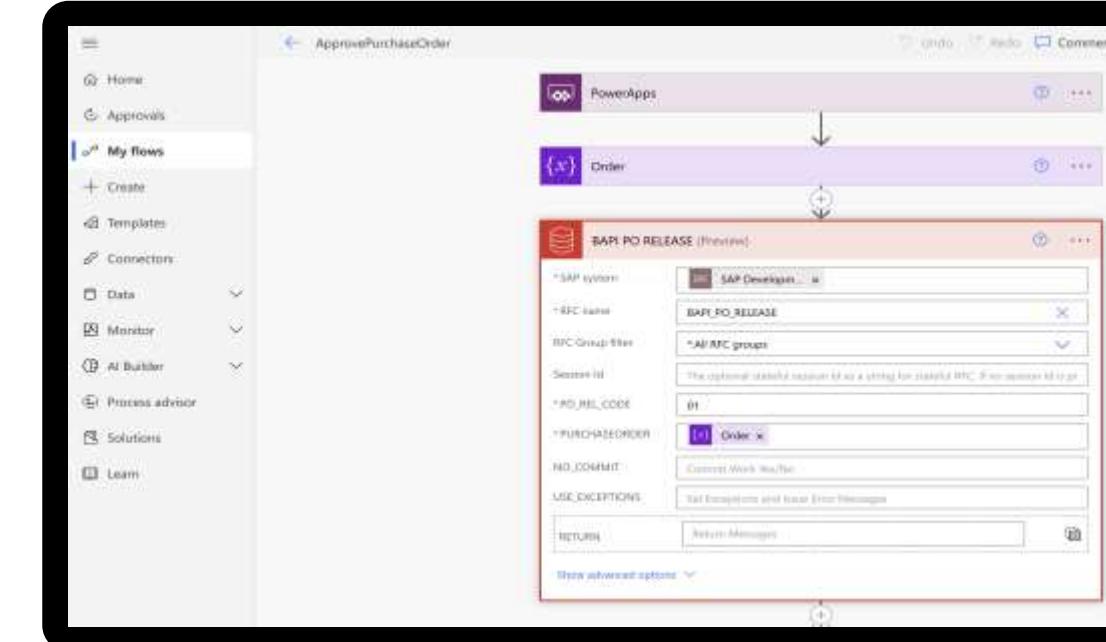
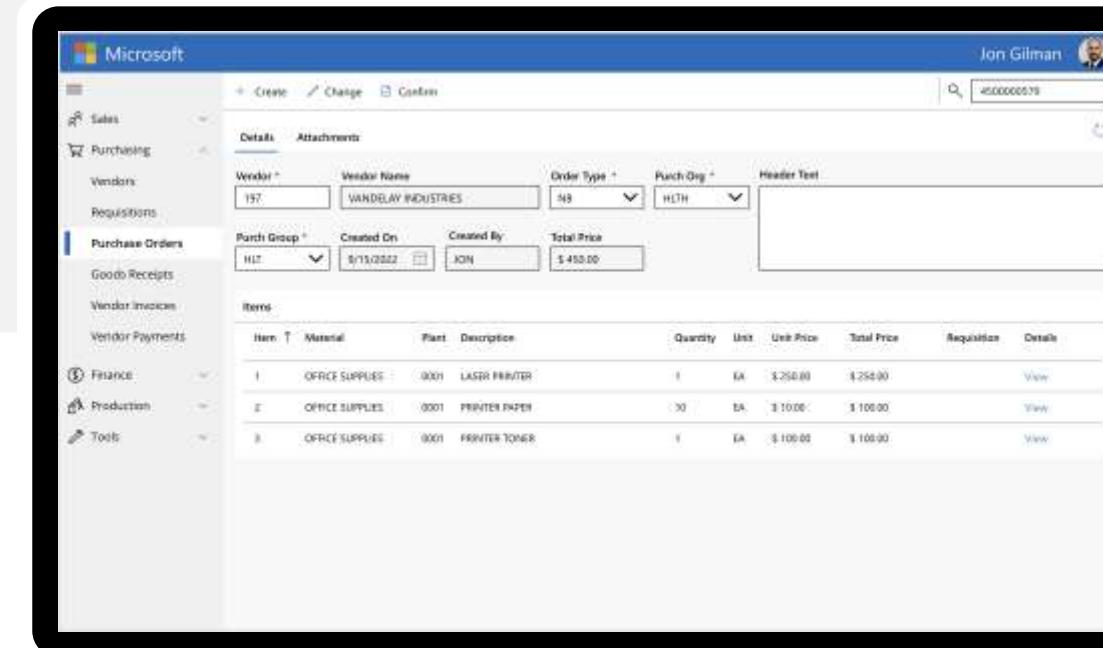
Deeper integration with your core systems out of the box

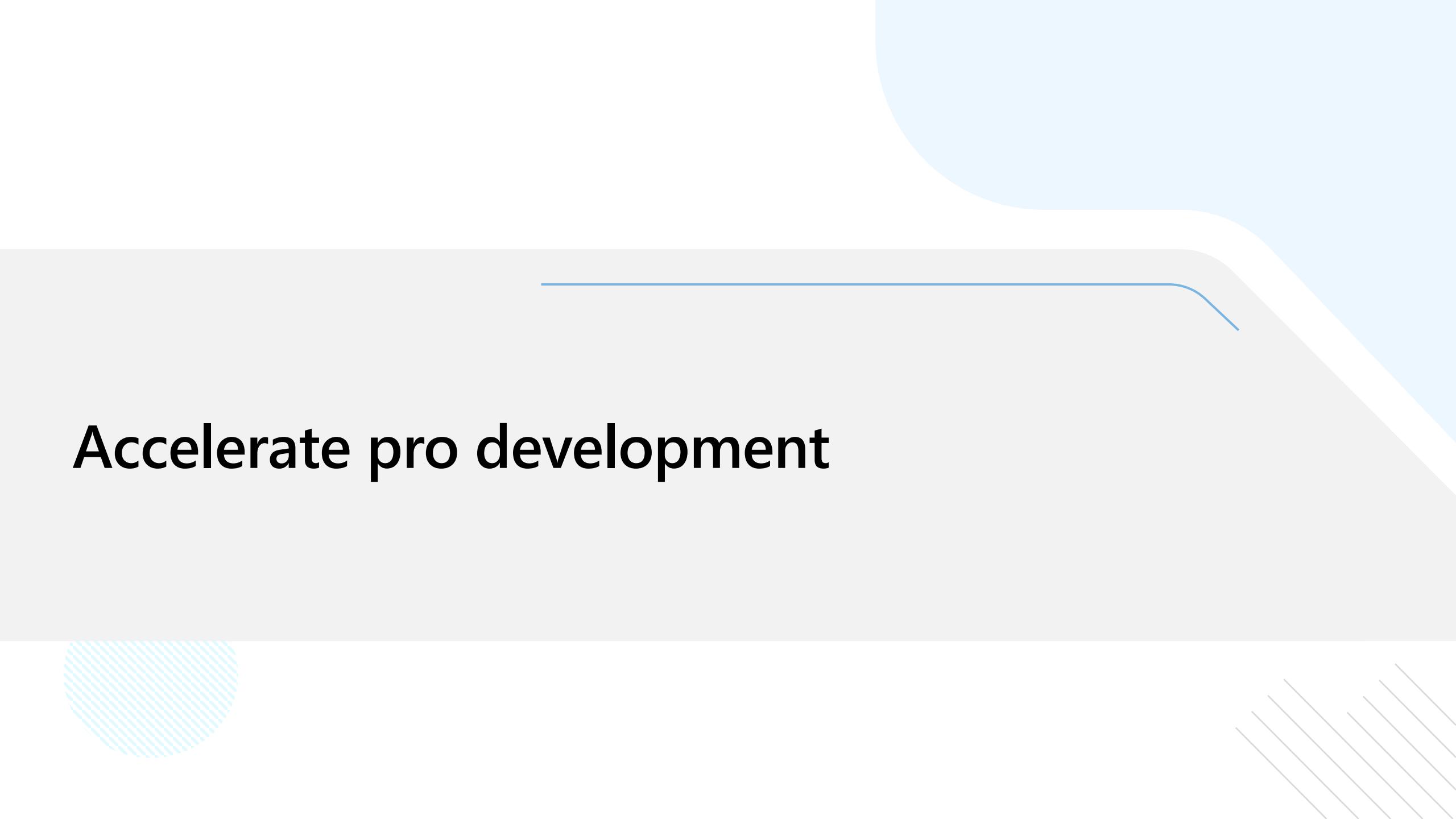
Quickly build solutions on top of your core systems data with 1000+ prebuilt connectors

Build custom connectors to consume and expose data through a secure gateway

Prebuilt templates and flows enable makes to quickly build solutions for common process

Extend your core systems with native integration to the Microsoft ecosystem including Azure and Microsoft 365





A horizontal blue line swooshes across the slide, starting at the center and curving towards the right edge. In the bottom left corner, there's a circular graphic with a light blue background and a darker blue diagonal striped pattern.

Accelerate pro development

Build complex solutions faster with low code



Reduce time and effort needed to create new solutions with low code to accelerate development and enable faster time to value.



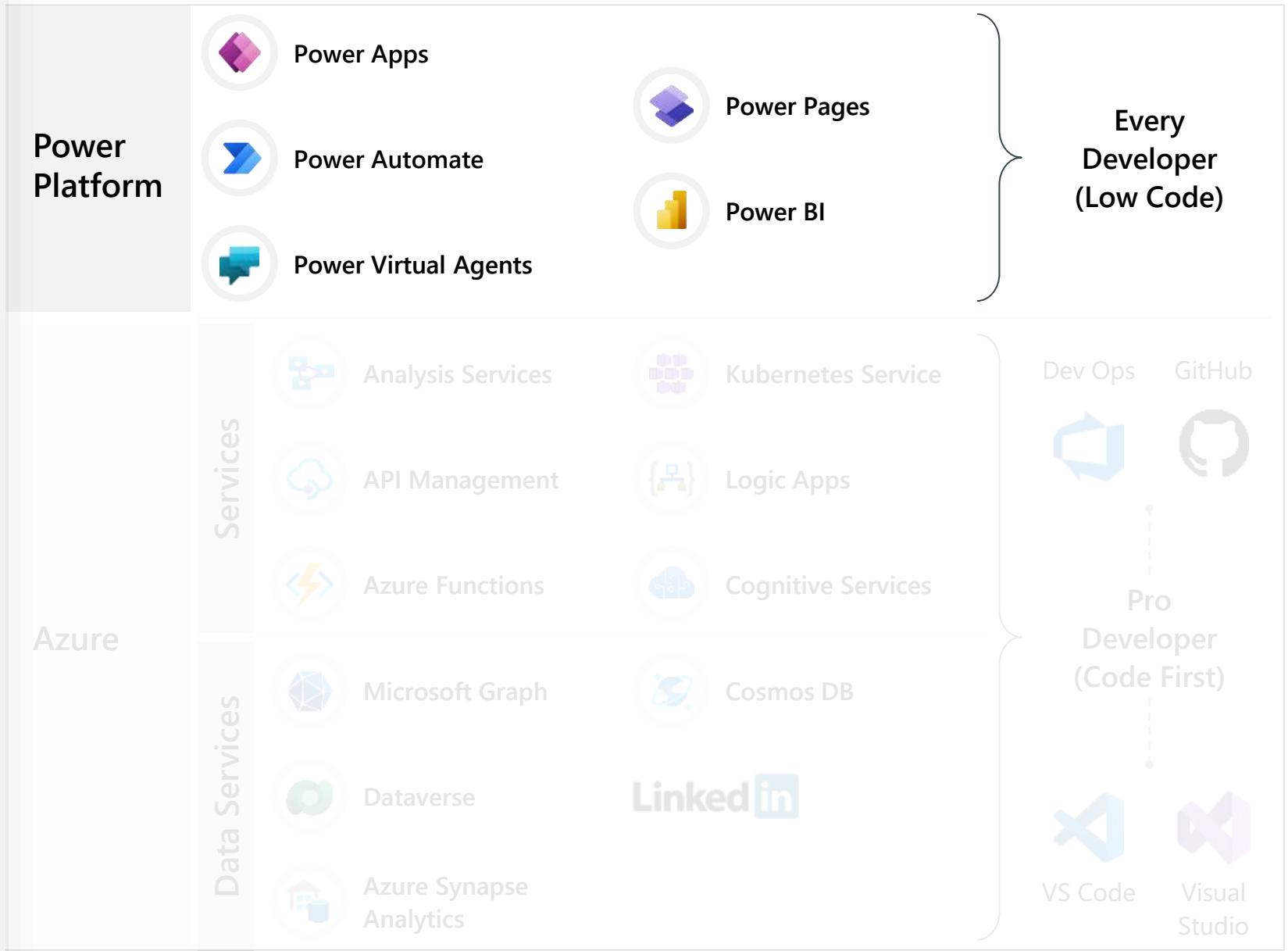
Extend and integrate your solution with professional developer tools to create complex solutions quickly and easily.



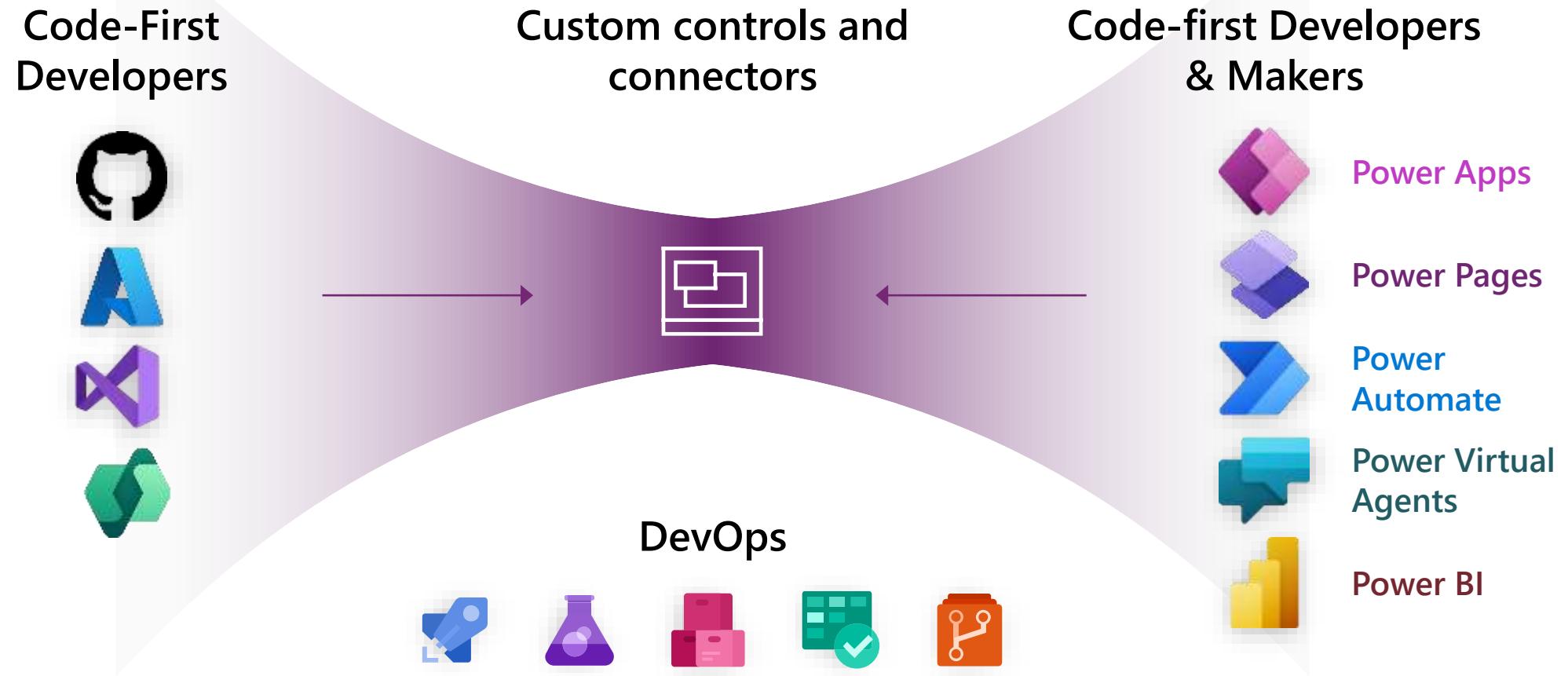
Maintain governance and control at scale with built in administration and security tools that work across all your solutions.

Power Platform and Azure helped reduce costs by 24% due to increased developer efficiency, increased DevOps efficiency, and reduced spending on third-party solutions.¹

Integrated experience



Azure + Power Platform = Rapid Application Development



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.

Easily publish your custom APIs to Power Platform

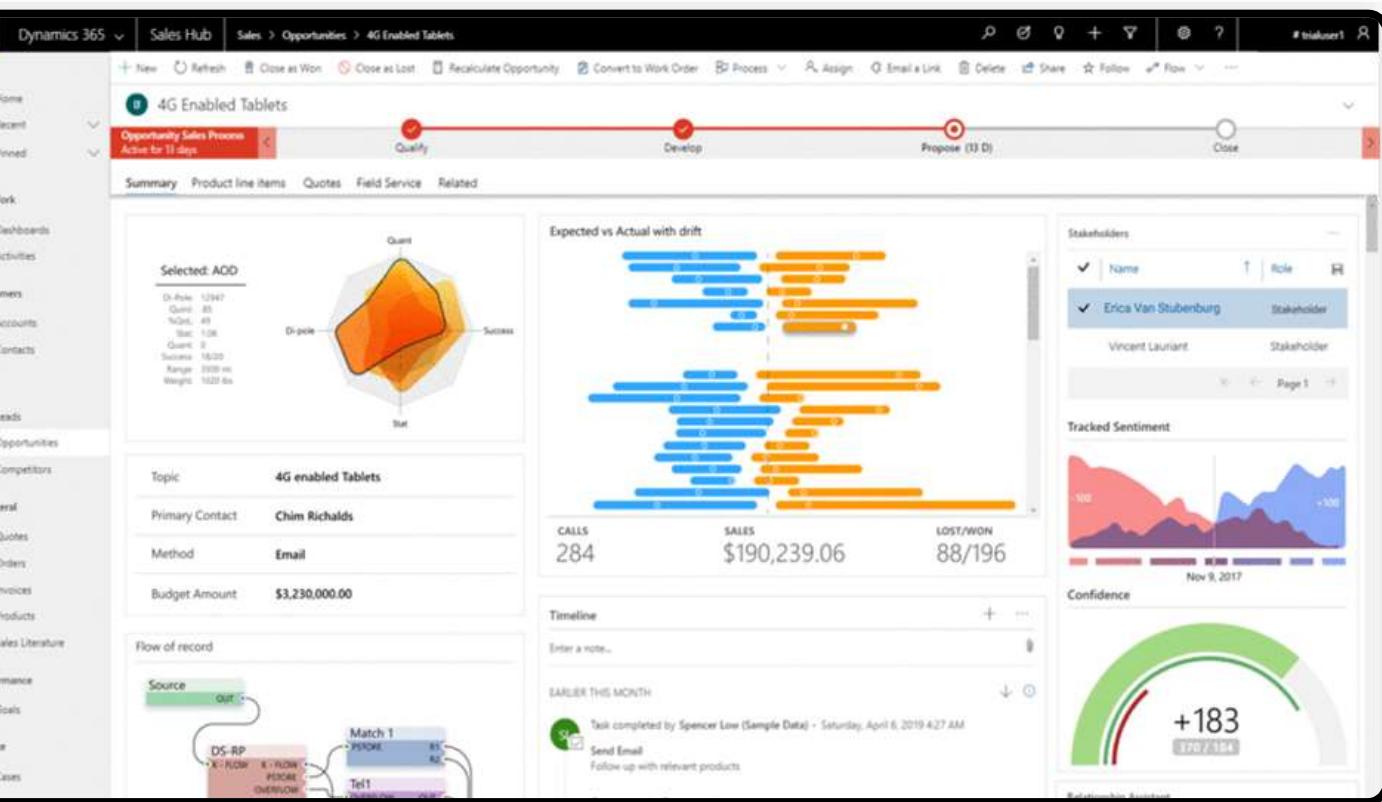
Azure API Management enables professional developers to publish their backend service as APIs, and easily export these APIs to the Power Platform

With this capability, citizen developers can use the **Power Platform** to create and distribute apps that are based on internal and external APIs managed by API Management.

[Learn more](#)

The screenshot shows the Azure API Management interface for creating a connector to the Power Platform. The left sidebar lists various management options: APIs, Products, Subscriptions, Named values, Backends, API Tags, and Power Platform. The 'Power Platform' option is highlighted with a red box. The main right-hand pane is titled 'Create a connector' and contains sections for selecting an API and a PowerApps environment. The 'API' section shows 'Demo Conference API' selected. The 'PowerApps' section shows 'Personal Productivity' selected as the environment to publish to, and 'MyAPIMConnector' entered as the API display name. A checkbox for 'Create subscription key connection parameter' is checked. At the bottom are 'Create' and 'Back' buttons.

Build Custom Components with the Power Apps Component Framework



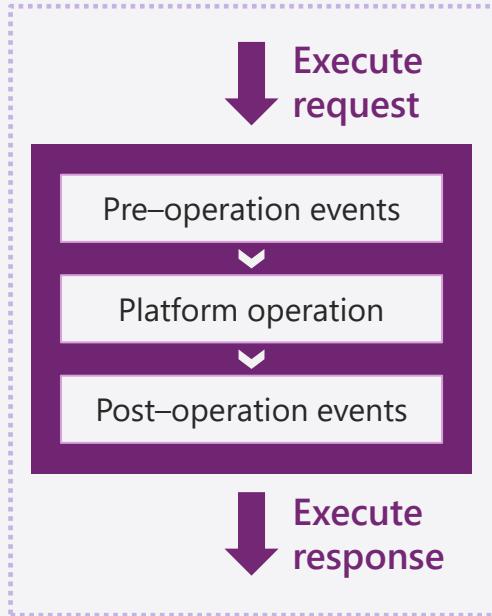
Developers can build compelling visual components for Power Apps

Custom components are responsive, reusable and support multiple form factors

Reuse your current IP and skills—framework is based on standard web technologies
TypeScript/JS, CSS and HTML5

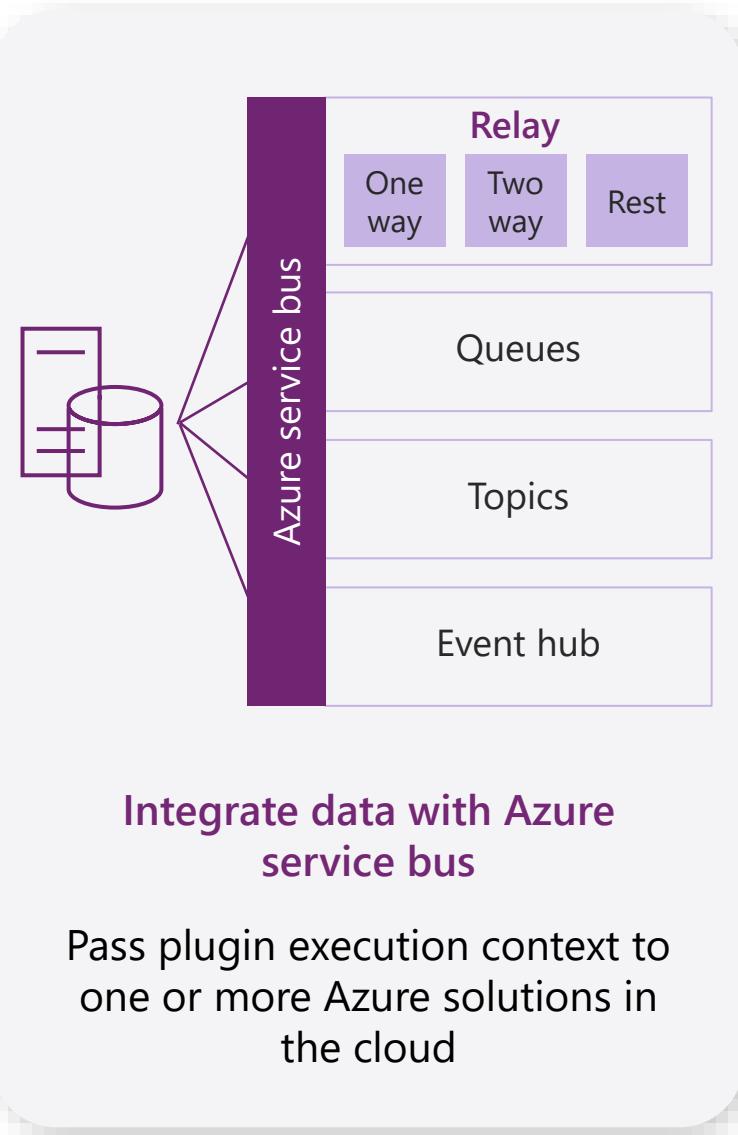
React and fabric support available in preview

Service-side Extensibility for Dataverse



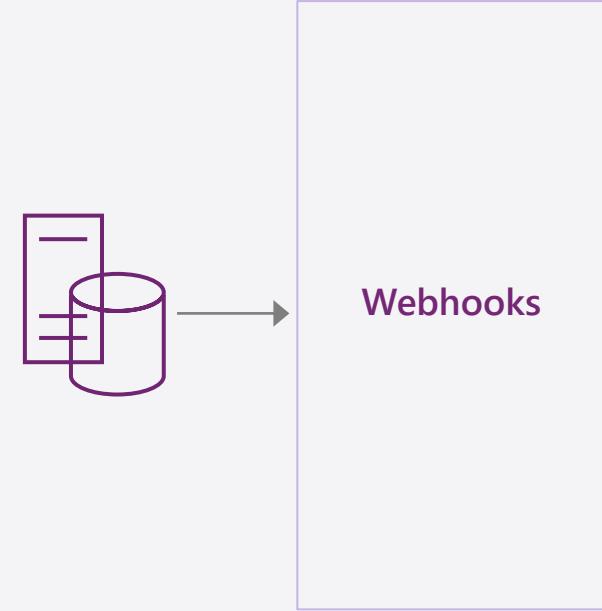
Extend logic with custom code

Use plugins to add custom code before or after platform operations



Integrate data with Azure service bus

Pass plugin execution context to one or more Azure solutions in the cloud



Integrate data with webhooks

Pass plugin execution context to web APIs and services using a lightweight HTTP pattern

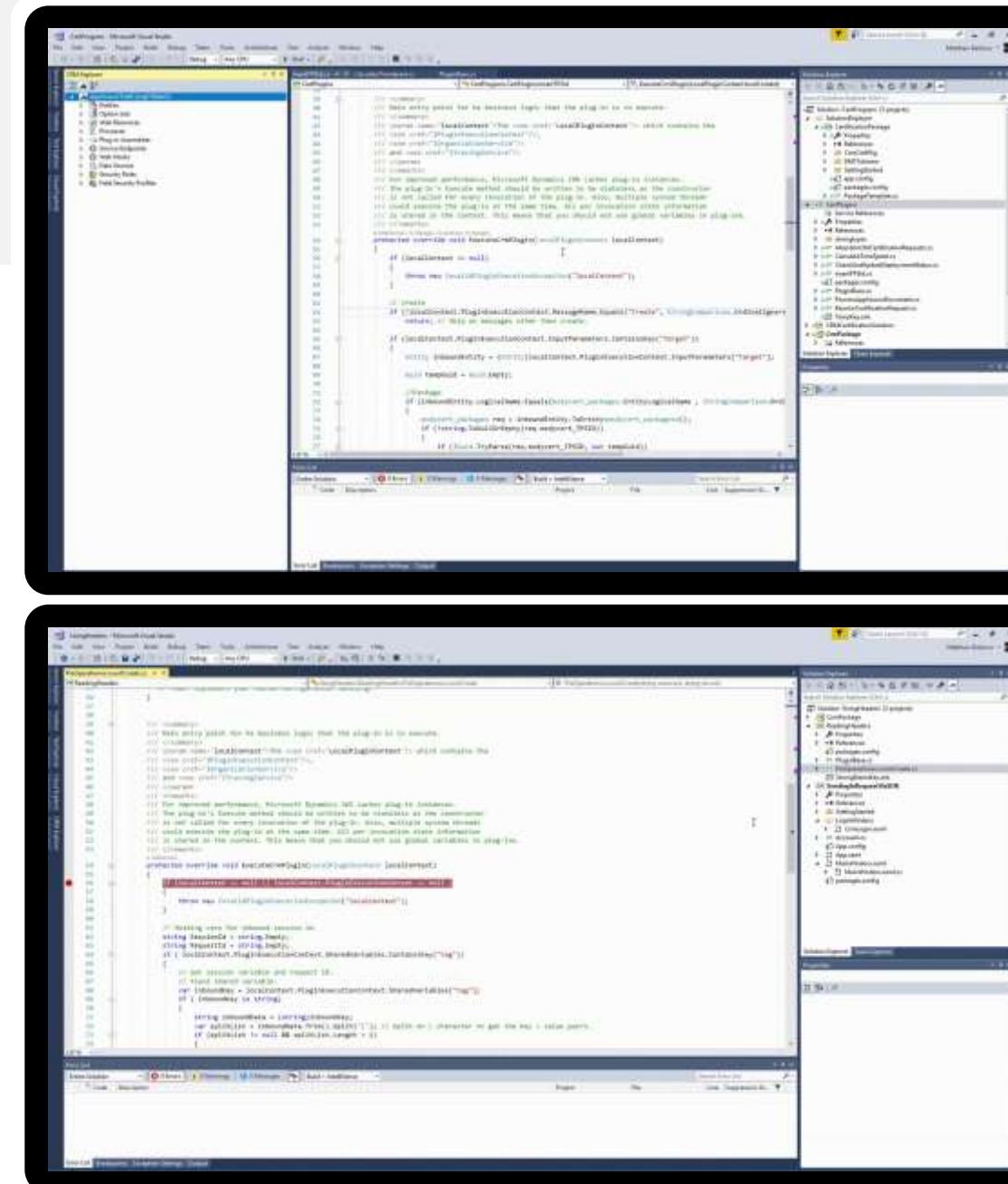
Leverage code-first tools

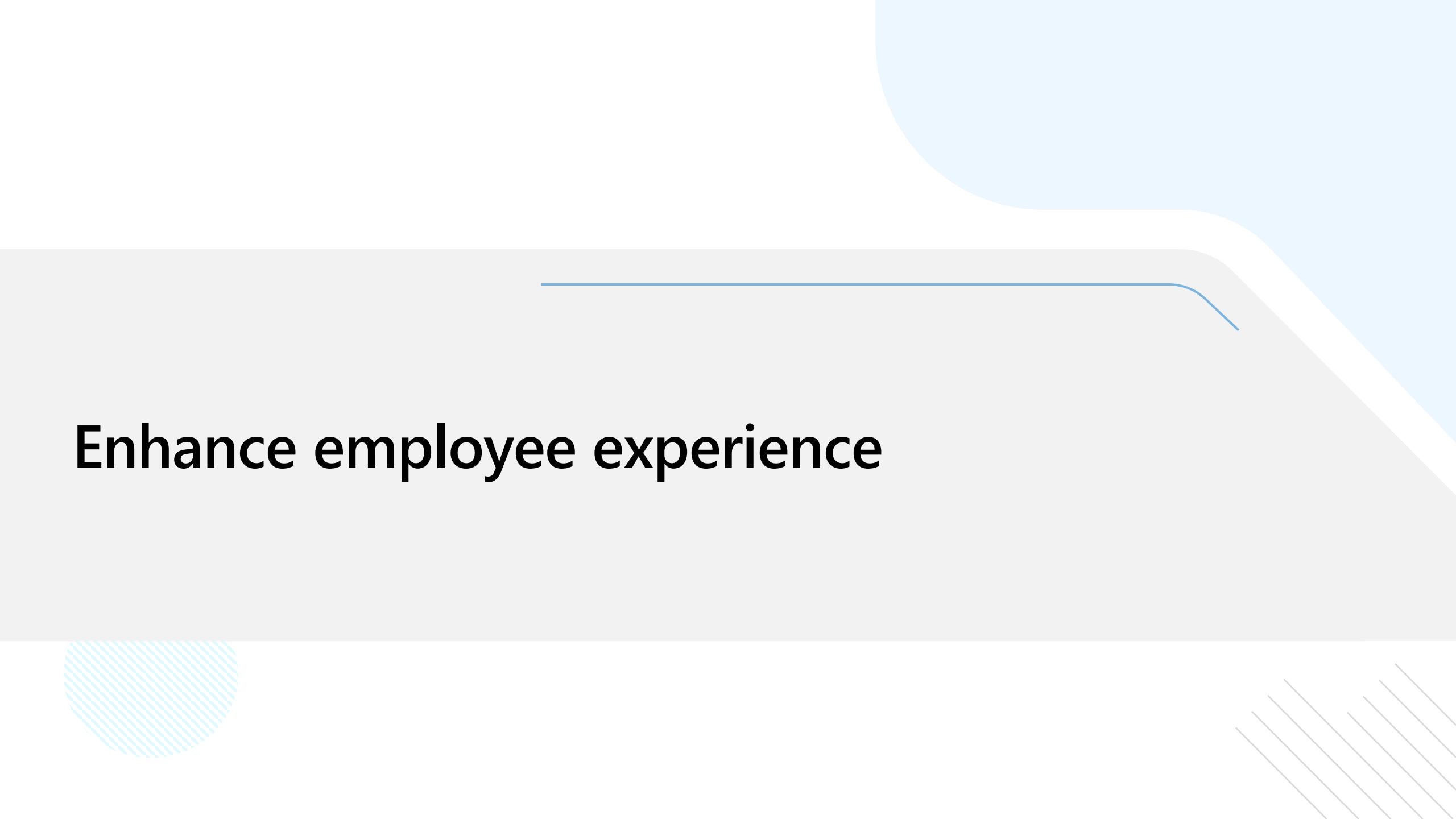
Full range of **customization and development experiences** with rich pro developer tools

Integrated with professional development tools such as Visual Studio

Extend and distribute Azure APIs in Power Platform and leverage Azure API Management

Build compelling and responsive **custom components** for reuse





Enhance employee experience

Boost employee engagement & productivity



Connect your internal and external data sources and give employees information they need to decide & act fast.



Improve communication, focus, and collaboration with apps, workflows, and bots available in the flow of work through Teams and M365.



Simplify work with applications and automations that streamline activities and experiences both in the office and on the front line.

The use of no-code or low-code platforms or apps is shown to have led to an 83% positive impact on work satisfaction.¹

Integrate with productivity tools

Power Platform



Power Apps



Power Automate



Power Virtual Agents



Power Pages



Power BI

Connect, extend and integrate with productivity tools



Microsoft 365



Dynamics 365



Microsoft Teams



Dataverse



Outlook



OneDrive



SharePoint



Forms



Data Connectors

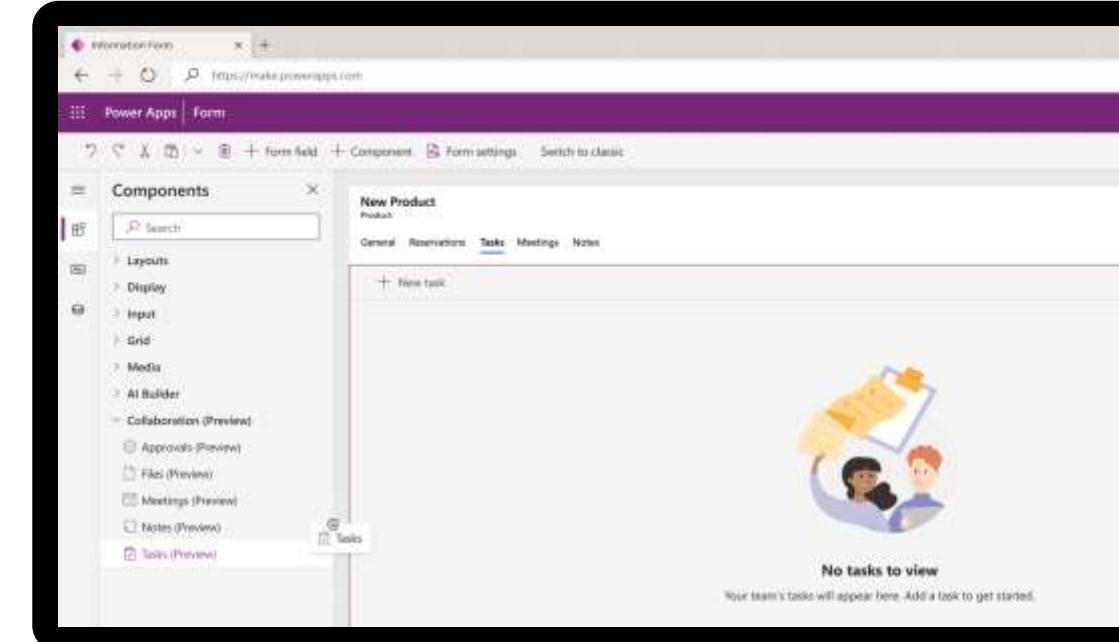
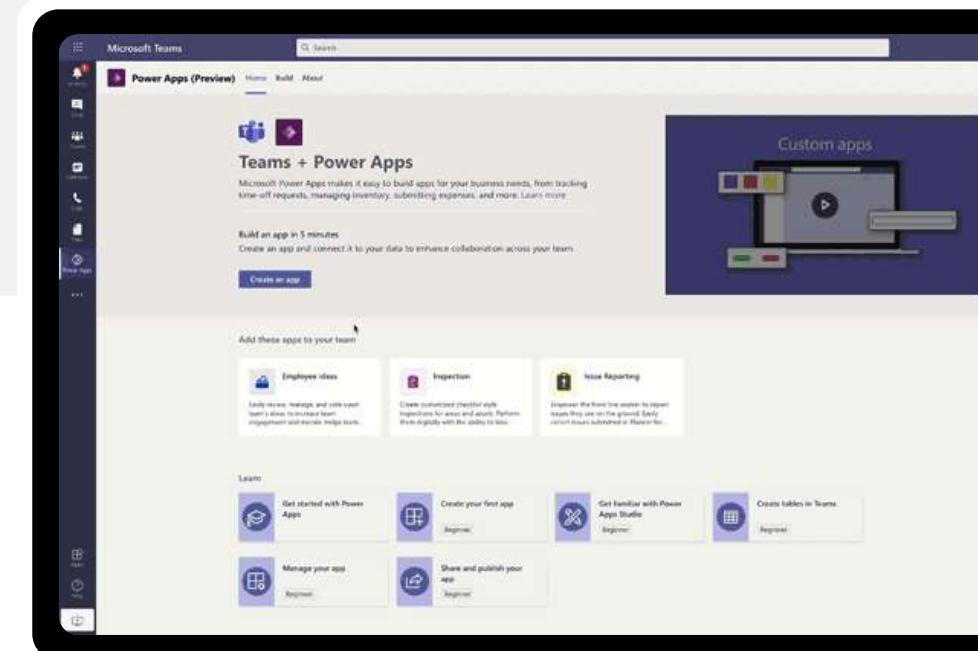
Power Platform + Teams

Keep the focus in the flow of work with app deployment through Teams

Enable collaboration between business and technical users, decreasing costs and time to delivery

Use adaptive cards and link unfurling to take simple action directly in chat

Start with pre-built solutions to common scenarios with out of the box templates



Empower departments

Empower departments to solve business challenges



Accelerate developers and empower business users to develop solutions faster and at scale with safeguards in place.



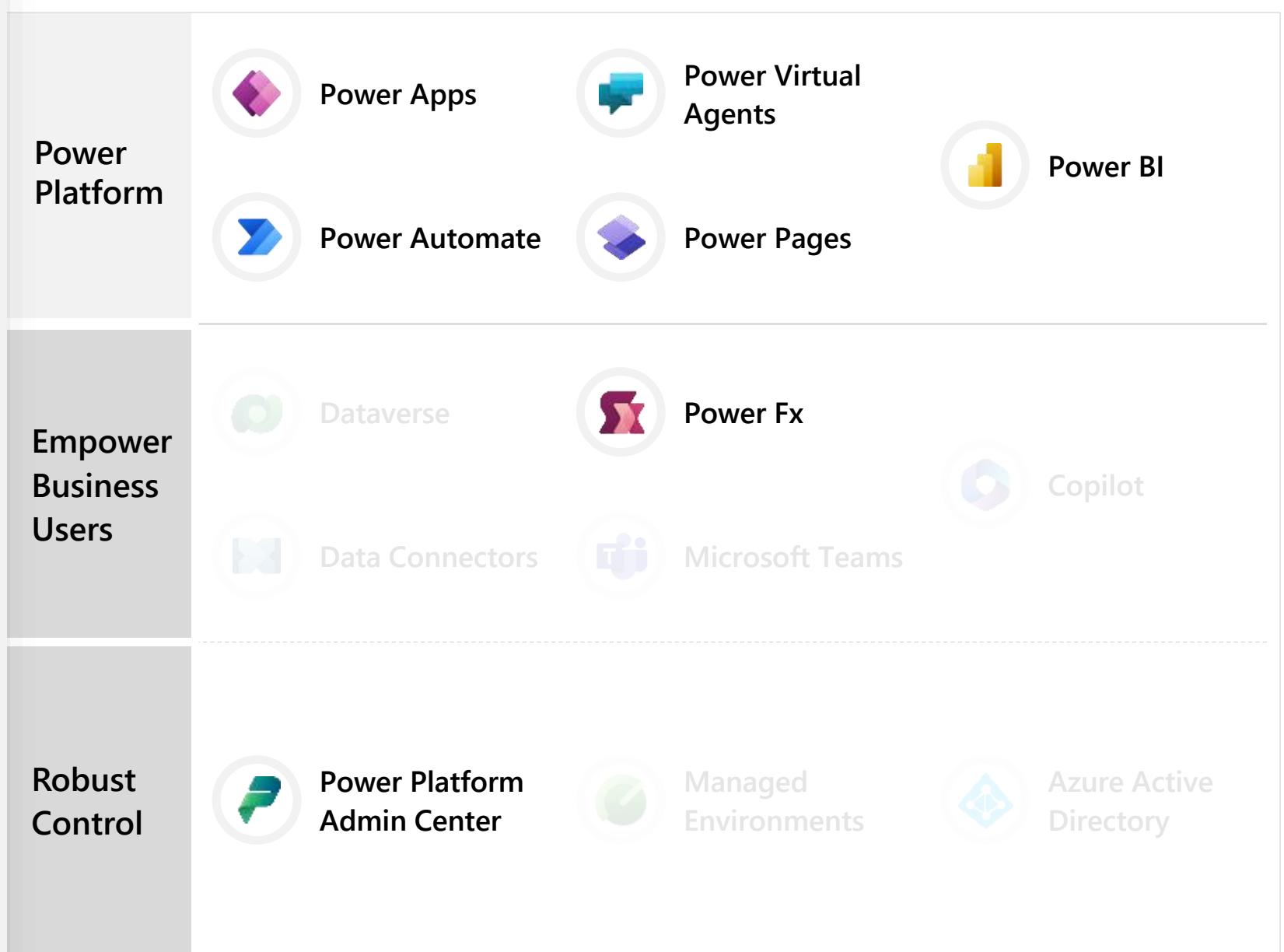
Build solutions with less effort with next generation AI copilot to quickly go from idea to solutions with natural language.



Keep IT in full control and reduce the risk of shadow IT with centralized administration and governance.

More than 80% of users and potential users of low-code or no-code platforms report that they would be more willing to work for a company that invests in their technical upskilling.¹

Enable all makers



Empower people in your organization to create solutions with less effort

Give **developers and business makers tools** to solve problems quickly through an intuitive maker experience

AI assisted experiences enable natural language authoring to go from idea to solution faster

Intuitive UI makes it easy for more people to build productivity solutions

Maintain control and prevent shadow IT with built in governance and administration tools

