Indian Health Service Power Platform

ANTHONY RAMIREZ

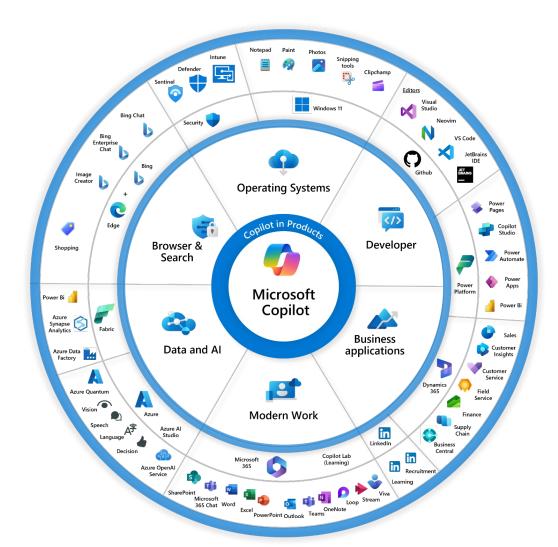
SR. SPECIALIST — POWER PLATFORM

ANTHONYR@MICROSOFT.COM

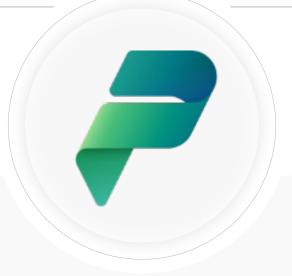


Microsoft Cloud

Embedded AI experiences across the ecosystem



Introducing



Power Platform

97%

of Fortune 500 use Power Platform

#1

adopted low-code platform

50%+

CIOs would choose Microsoft































































































Low-code in reality

We are sitting at the midpoint of the low-code shift, the low-code revolution. The low-code shift is going to happen in five to six years and we're right in the middle of it.

Charles Lamanna, Microsoft Build, May 2023

89%

CIOs & IT pros say low-code is increasing efficiency¹

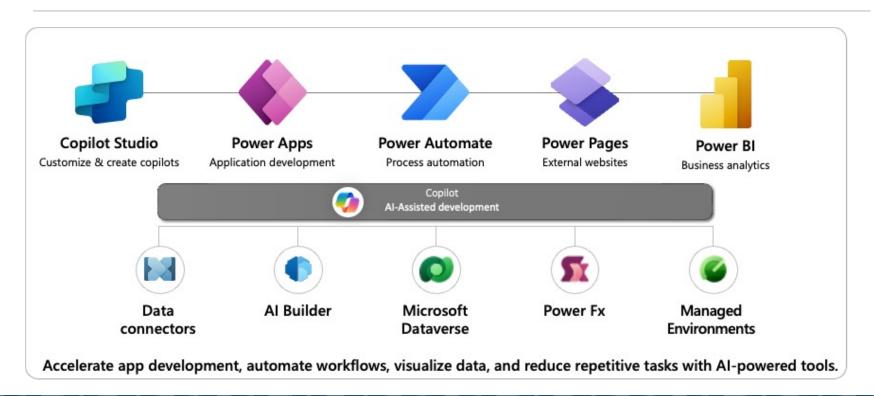
33M

monthly active users of Power Platform²

7.4M

monthly active developers

Microsoft Power Platform



Power Apps

Power Apps simplifies & accelerates development



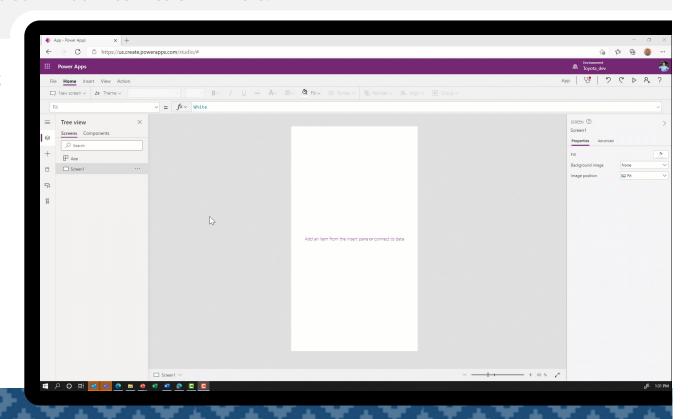
RAPIDLY BUILD WEB AND MOBILE APPS TO SOLVE YOUR BUSINESS CHALLENGES.

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

Connect **to your** legacy line of business applications quickly and securely

Natively integrated **into** Microsoft Teams, Office, Dynamics 365



Power Apps

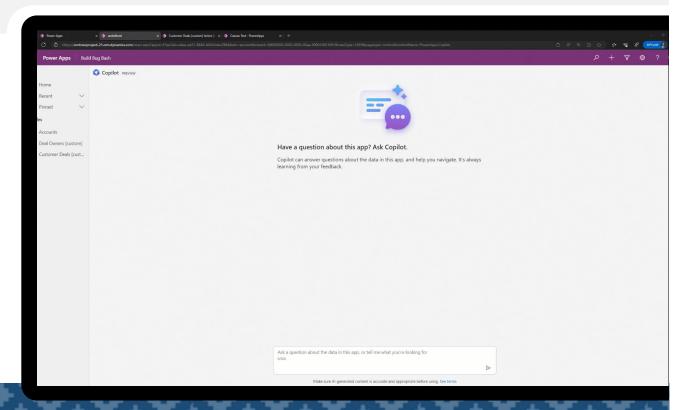


Al assistance in building topics, designing and modifying the app all through natural language

Al-assisted table creation that takes your existing data and turns it into an app in just a few steps

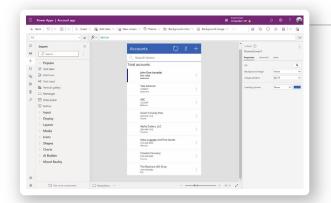
Accelerate simple or repetitive tasks, use reusable components to move from idea to deployment faster

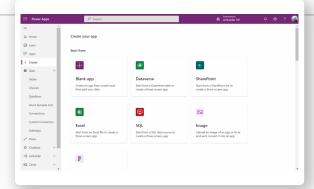
Build, reimagine, and deploy business applications all through intuitive natural language

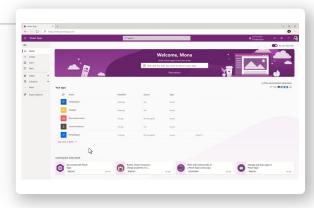


Power Apps









Ideas

Makers only need to describe their goal using natural language and Power Apps will generate code.

Save time and build more complex solutions by using natural language to give commands.

Express design

Auto-generate working apps and data within seconds from images and design files.

Accelerate app development and enable anyone to easily create a to scale

Copilot

Makers can build a complete app just by describing what they need in natural language.

Build, reimagine, and deploy business applications all through intuitive natural language.

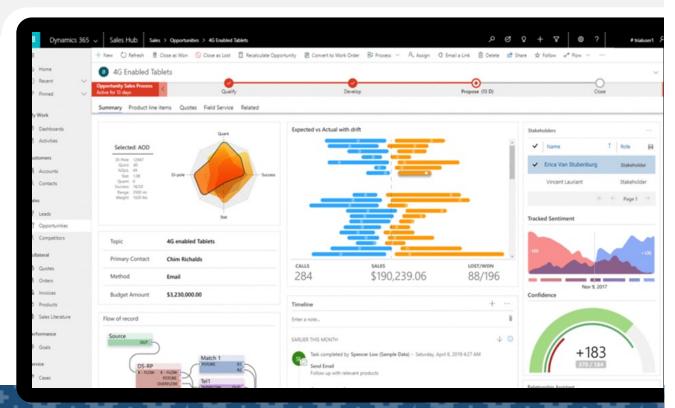
Build Custom Components with the Power Apps Component Framework

Developers can build compelling visual components for Power Apps

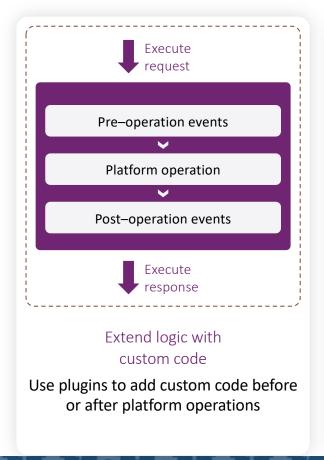
Custom components are responsive, reusable and support multiple form factors

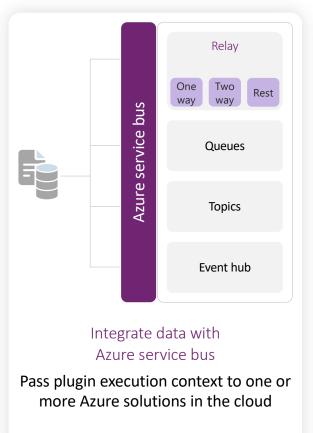
Reuse your current IP and skills—framework is based on standard web technologies TypeScript/JS, CSS and HTML5

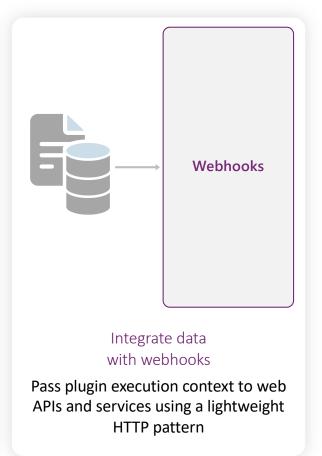
React and fabric support available in preview



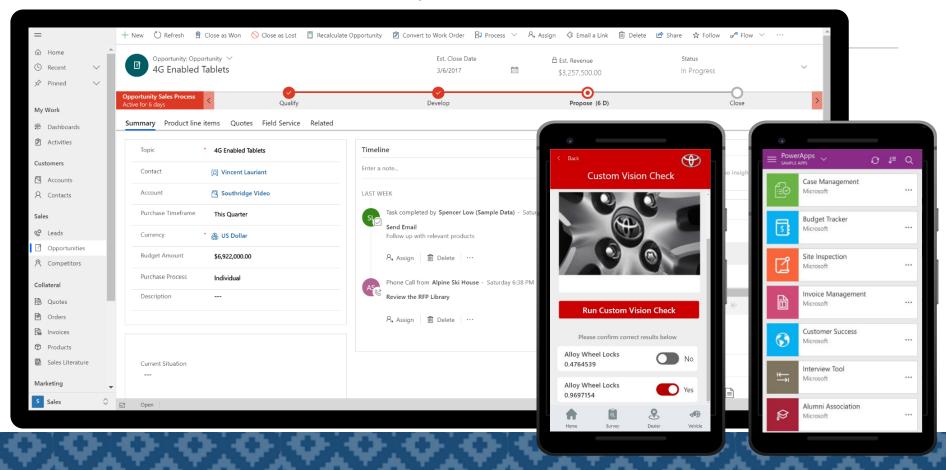
Service-side Extensibility for Dataverse





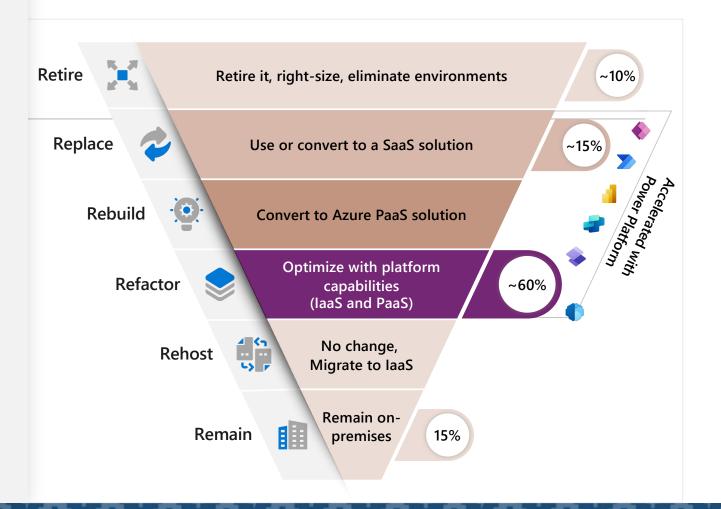


Out-of-the-Box Components

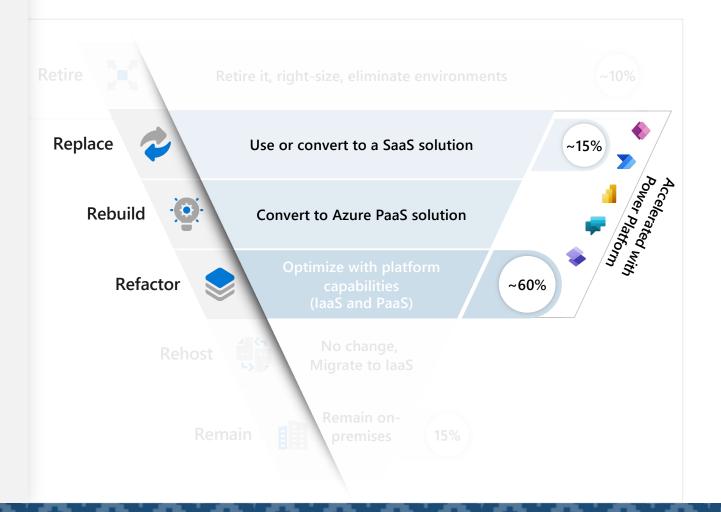


App Building & Modernization

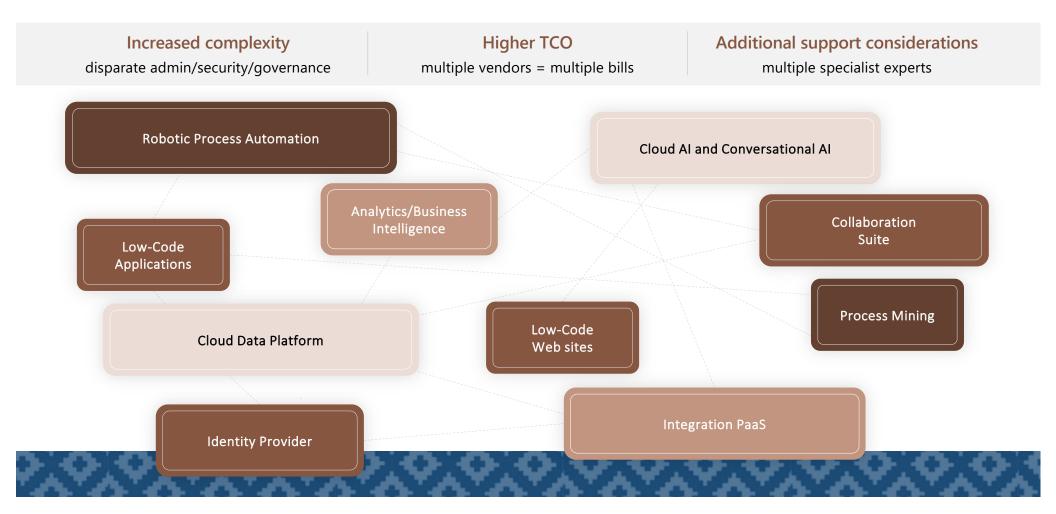
75% of legacy apps can be modernized faster with Power Platform



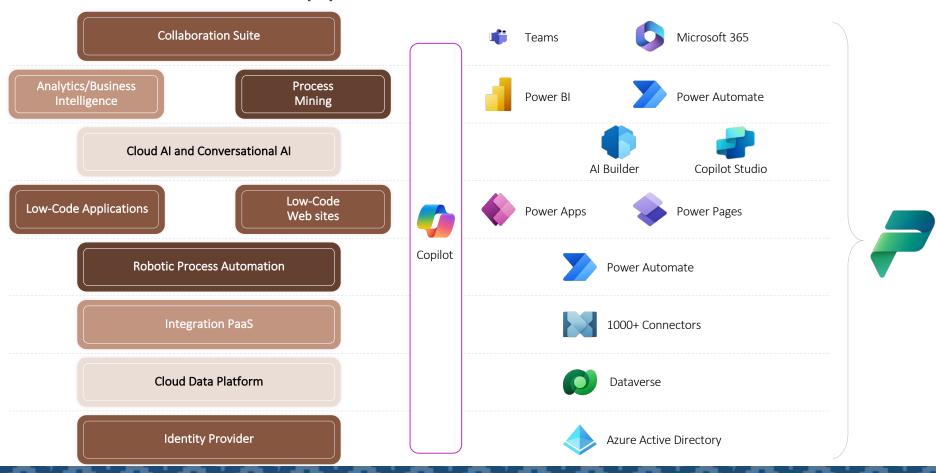
App Building & Modernizati on



Disconnected Solutions



The Microsoft Approach – An Orchestrated Platform



Power Apps + Makers

Digital transformation is powered by people





Low-code moves part of development responsibility

Business users can create more apps than experienced developers in the coming years, they can unburden the codefirst developers from simpler projects.

Runs on a Global, Hyper-scale, Enterprisegrade Infrastructure (20,000+ Engineers)



Enterprise reliability via 100+ data centers and Microsoft's global network edge.

Compliance leadership with standards and commitments including ISO 27001, FedRamp and EU model clauses.

No standing access to data, transparent operational model and 99.9% financial-backed uptime guarantee. Secure by design operationalized at the physical, logical and data layers.

The world's most trusted cloud

Get security from the ground up—backed by a team of experts, and proactive compliance trusted by enterprises, governments and startups.



Microsoft invests more than USD 1 billion annually on cybersecurity research and development.



We employ more than 3,500 security experts who are dedicated to data security and privacy.



Azure has more certifications than any other cloud provider. View the comprehensive list.



90+ compliance offerings including CIS Benchmark, CSA STAR Self-Assessment, SOC 1 Type 2. Recognized as a
Leader in low-code
development
platforms and robotic
process automation
by both Gartner and
Forrester

A Leader in

Low-Code Applications Platform, 2023

Robotic Process Automation Attended & Unattended, 2022 Low-Code Development Platforms for Professional Developers, 2023

Robotic Process Automation, 2022

Digital Process Automation, 2022

Gartner

FORRESTER®

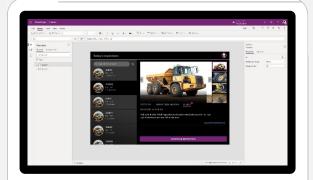
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Power Apps



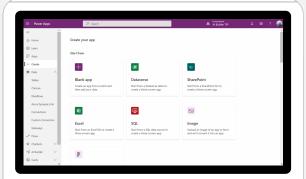
Ideas



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Auto-generate working apps and data within seconds from images and design files.

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Power Automate

Power Automate

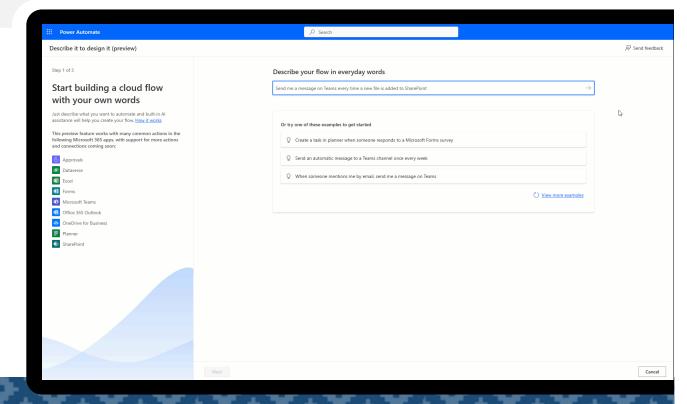


Bring ideas to life with AI powered automation development

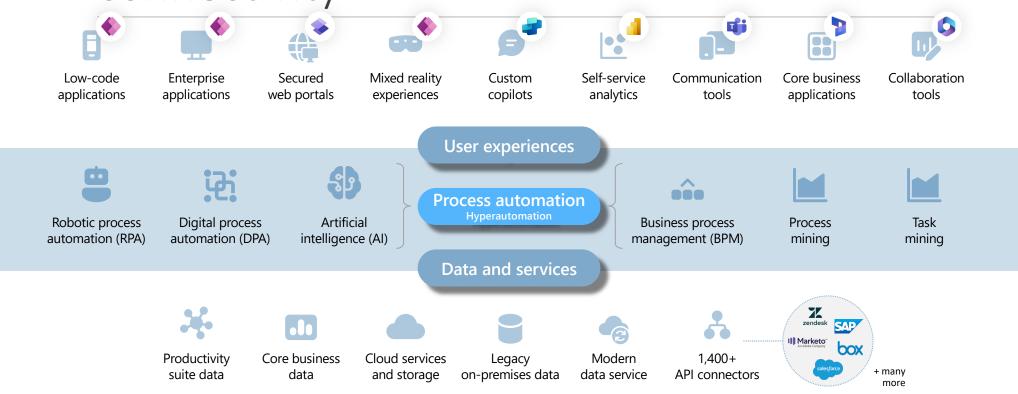
Al powered insight empowers everyone in your organization to make data-driven decisions

This new way to create flows runs on OpenAI Codex, an AI model descendant of GPT-4 that can translate natural language to code, in this case, Power Automate cloud flows

Al assisted authoring available "at your fingertips" allows developers and non-developers alike to build, edit, and extend solutions using natural language



Orchestrate an ecosystem of seamless connectivity



The future of automation is here

Al-first workflow automations

Cloud flows

Copilot-assisted cloud automations

UI Automation

Attended + Unattended UI Automation

Hosted RPA

New Al Recorder for natural language to desktop flow and self-healing

Al Flows

New Copilot-assisted dynamic workflow automation

Intelligent Content Processing

Content creation, extraction, and understanding with Al Builder and GPT

Integrated Experiences

Embedded in experiences used every day

Business process insights

Process insights

Copilot-assisted business process insights

Task mining

Democratize insights and task automation

Governance and observability

New Automation center

Maker and CoE level observability for operational excellence

Power Platform Admin Center

Tenant level reports & policies for governance at scale

Microsoft Purview Portal

Integrated risk and compliance management across the whole tenant

AUTOMATION FOR THE AGE OF AI



Al flows for outcome-based automation

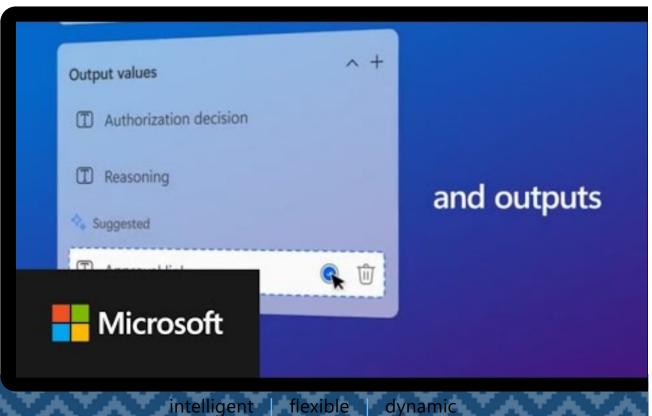
Early Access Program NEW

A new approach to automation that is dynamic and outcome-driven.

User and AI collaboratively design automation plan, including parameters and guidelines.

Process steps are determined and executed by the LLM to achieve the process goal

Monitor flow success with run history, analytics, and individual flow run details.



UI AUTOMATION REDEFINED

Al recording for desktop flows



NEW

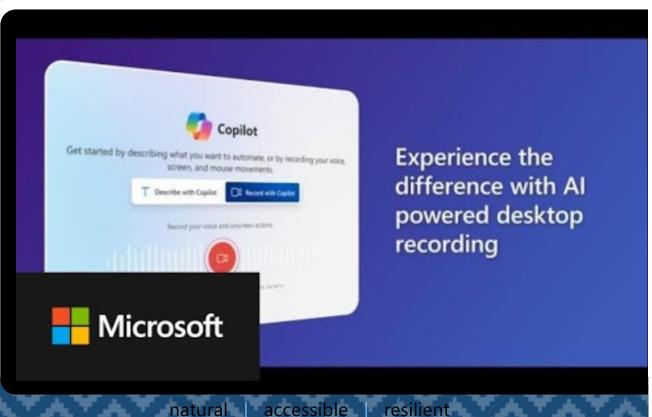
Early Access Program

Multi-modal AI recording with screen understanding and speech processing

"Show and tell" user experience is like training a new team member

Generative Al builds the flow when recording is complete

Self-healing with Al when user interfaces change

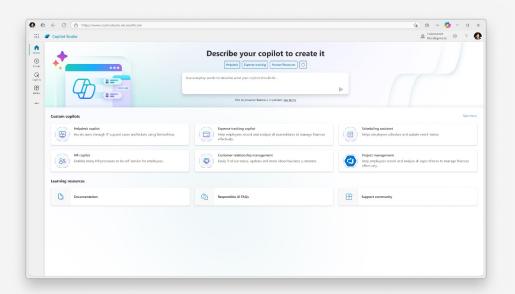




Power Automate + Copilot Studio

Integrate automation with custom copilots

Copilot Studio is an end-to-end conversational AI platform for building your own copilot or extending Microsoft Copilot with generative AI, large language models and your data.



- Bend the curve on innovation
- Optimize business processes
- Enrich customer & employee experiences
- Improve efficiency & time to value
- Reduce development costs & risks

Identify. Analyze. Optimize. Repeat.

Improve processes with task and process mining

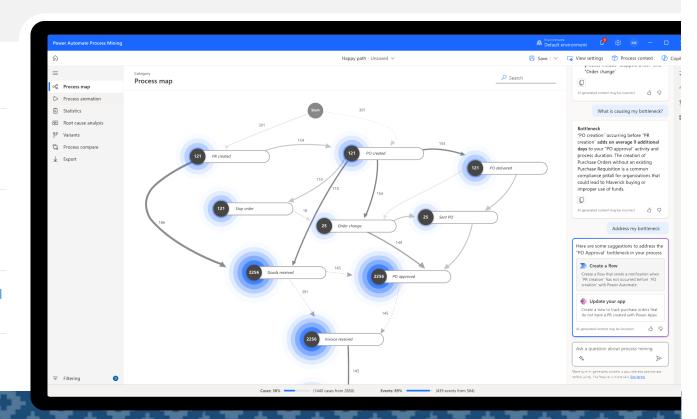
USE OUT-OF-THE-BOX TEMPLATES FOR RAPID DEPLOYMENT FROM DATA INGESTION TO PRE-DEFINED CUSTOM REPORTS

Gain deep insights with powerful features including rework detector, root cause analysis, process compare and custom metrics

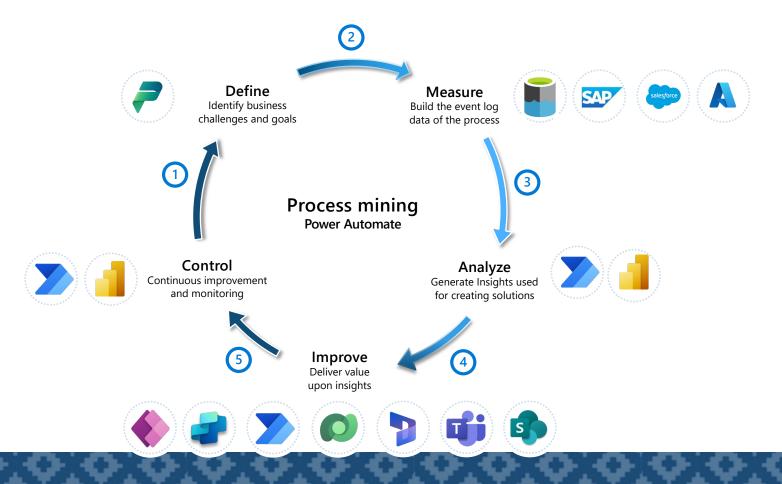
Create views, publish them to create custom Power BI reports and share across the organization

Discover possibilities for automation of individual workflows

Seamlessly integrate with Power Automate flows to turn insights into action



end process intelligence



Manage. Monitor. Troubleshoot.

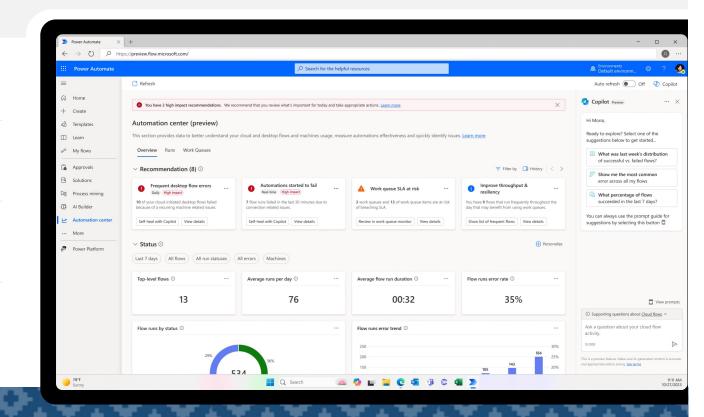
Get 360 visibility with automation center

Gain an end-to-end view of your automation status with flow analytics and insights

Dedicated work queue monitoring to closely track SLA attainment, average processing time, and throughout

Recommendation area provides users with actionable insights and best practice recommendations.

Use Copilot to query cloud and desktop flow telemetry, work queue throughput, and documentation





Build your own copilot

Create and publish a custom copilot for your organization using the intuitive building experience enhanced with large language models and generative AI

Customize Microsoft Copilot

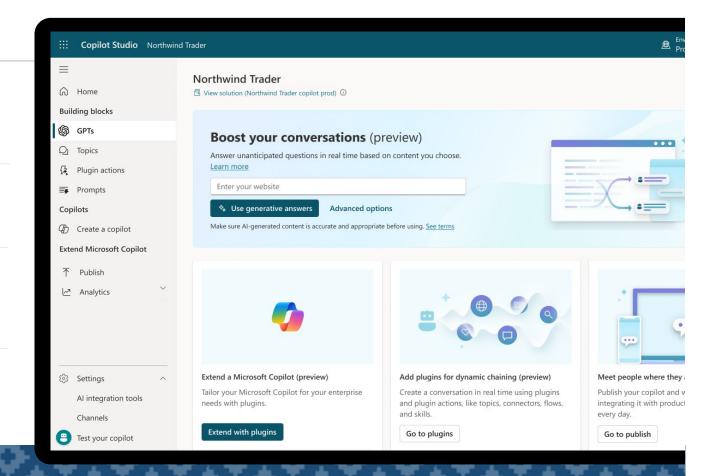
Extend and customize 1st party Microsoft Copilots with your own enterprise scenarios. Copilot Studio will be included with the Microsoft 365 Copilot SKU.

Connected platform

Integrates and exposes various Microsoft's conversational Al technology stacks - integrated with Azure Al Studio, Azure Cognitive Services, Azure Bot Framework, Power Platforms Al models and more

Manage copilot experiences

Governance and control features to monitor usage with full visibility of customizations, standalone copilots as well as who is building and customizing them.



Copilot in Power Pages

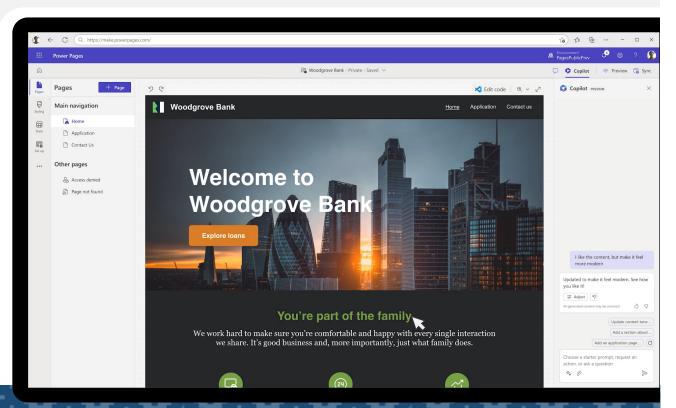


Al assistance in building topics, designing and modifying the bot all through natural language.

Build page layouts with the appropriate starting website content through natural language

Create forms and the appropriate table to store the form data

Use natural language to generate the right text content that can be adjusted for length, tone, and more



Microsoft Power

The low-code language for logic customization across Power Platform



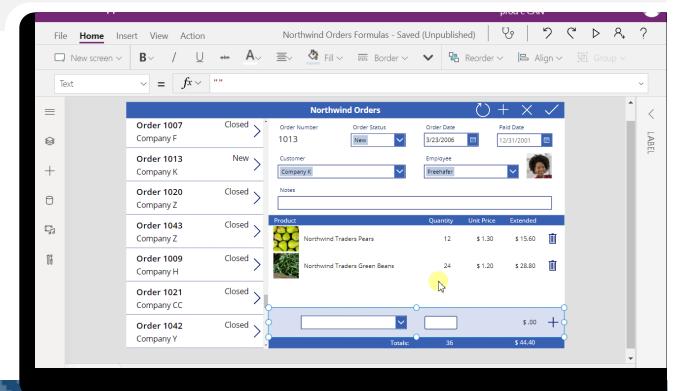
An open-source language that will be available for everyone to use and implement

Expressed in text, it's a low code language that makers can work with directly

Reduce barriers for getting started with a language that leverages the knowledge of excel users

Accelerate with the simplicity of formulas and add code where it matters using favorite developer tools

ParseJSON function to parse JSON strings into PowerFx objects and types

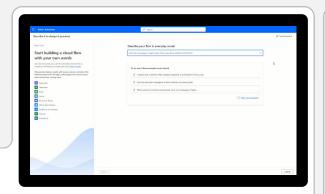


https://powerapps.microsoft.com/en-us/blog/what-is-microsoft-power-fx/

Next generation AI for developers

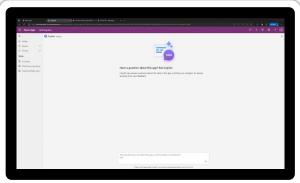


Rapidly Upskill



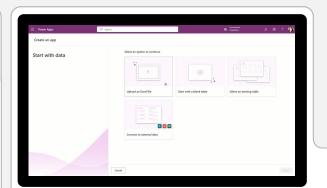
Leverage the in-product assistant to learn how it generated your app, bot, flow, etc.

Develop Faster



Auto-generate working websites, data reports, and more within seconds using natural language.

Streamline data integration



Drag-and-drop data sources, like an Excel sheet, into Power Apps and in a couple clicks Copilot will build your app. **Dataverse**

Microsoft Dataverse

Ingest the data you need



Dataverse easily
structures a variety of
data and business logic
to support
interconnected
applications and
processes in a secure
and compliant manner



More than a server

Although the Dataverse database is based on Azure SQL, it is so much more than a SQL server, allowing users to capture, analyze, predict, present, and report data with a high level of agility.



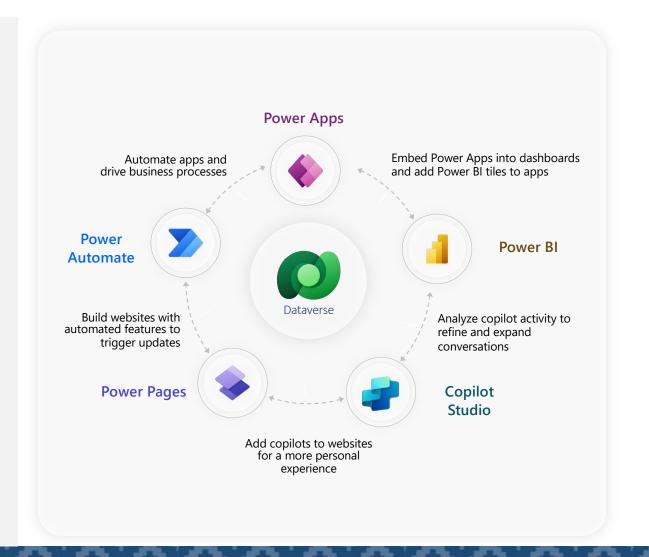
An actionable platform

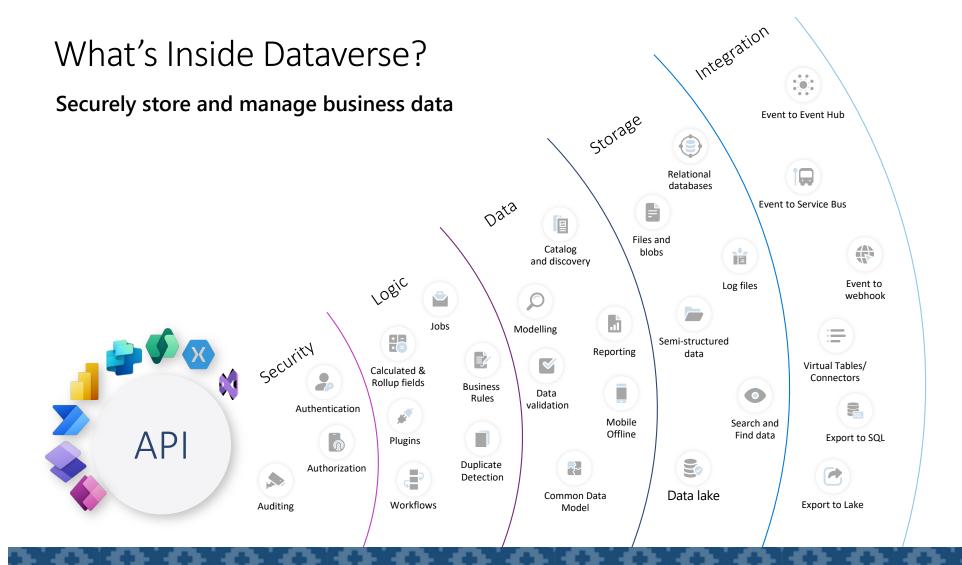
Dataverse comes with a rich system of actionable features that enable it to operate as a platform to do more with your data.



Out-of-the-box controls

A traditional database would need to layer applications over your data to handle things like security and business logic, but with Dataverse all that is taken care of out-of-the-box, allowing you to get right to data modelling, business applications, and presentation of data. Dataverse is fully integrated into the Power Platform





Low-Code Backend with Dataverse

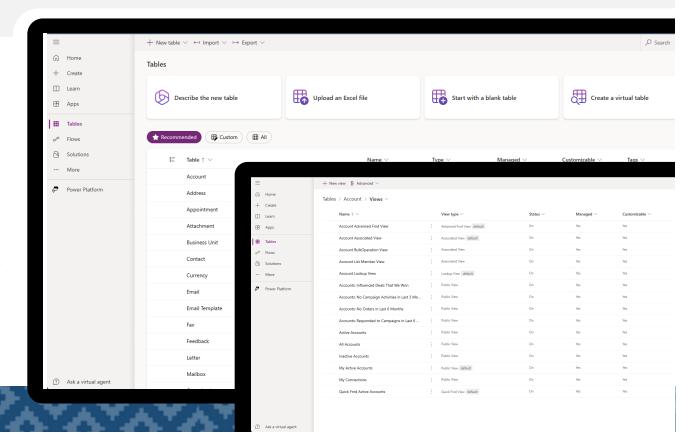
Jumpstart apps using an extensible data model with business logic, security and integration built in

Enable AI through built-in cognitive services powered by AI Builder and Azure

Extend data and processes to external and anonymous users with Power Apps portals

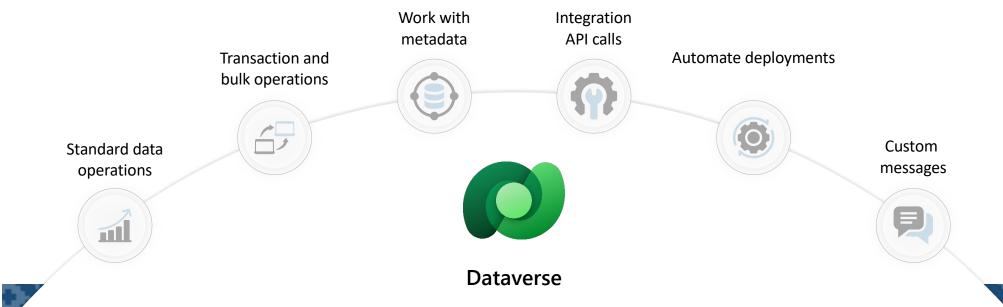
Support all your data: relational data, file and blob storage, logs and search indexing

Effortless Dynamics 365, Microsoft 365 and Azure integration as well as powerful integration capabilities



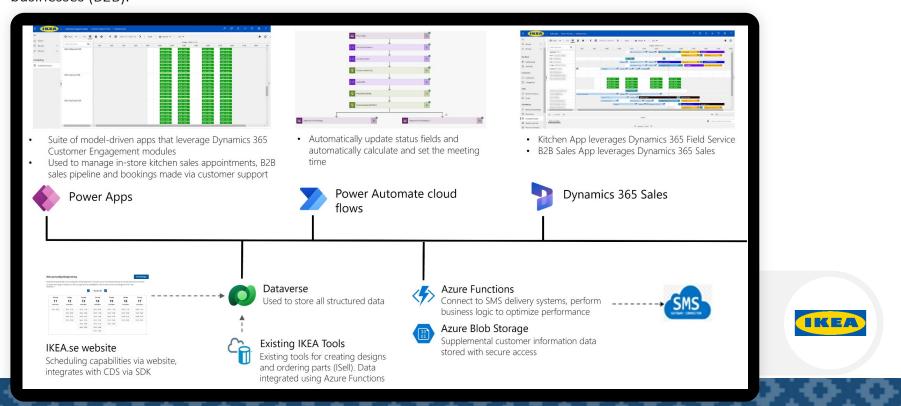
Integrate and Build Custom Apps on Dataverse

Working with Dataverse APIs



Solution Architecture Using Dataverse

How <u>IKEA Sweden</u> partnered with <u>Cappenini</u>, a Microsoft Gold Partner, to build a Dynamics 365 and Power Platform solution for its sales staff to improve the kitchen buying experience for individual customers (B2C) and businesses (B2B).

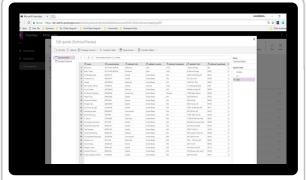


Connect to All the Data You Need

Easily integrate information from just about anywhere



Dataverse connects in different ways to support your business needs. APIs, webhooks, eventing, and data exports give you flexibility to get data in and out.



Data integration capabilities builtin to Dataverse include Excel Power Query and Built-in management features like CDM entity mapping UX, environments, and scheduled refresh.



Leverage external data through custom connectors or 1000+ prebuilt connectors for cloud and on-premises connectivity. Break down data silos by using multiple data sources in a single application.

Virtual Connection Provider

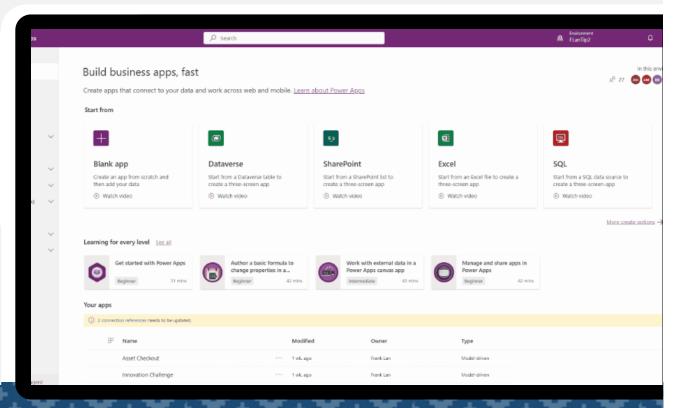
Make the process of creating virtual tables easier by letting Dataverse do some of the work for you

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!



Power BI product portfolio

Author

Share and collaborate

Large scale deployments

App dev











Power BI Desktop

Power BI Report Builder

Power BI service

Power BI Premium

Power BI Embedded

Data exploration and report authoring tools

Cloud-based modern business analytics solution, includes free mobile app Dedicated capacity for:

- Increased performance and advanced capabilities
- Sharing with large groups

Visual analytics embedded in your applications

Free download

Power BI Pro

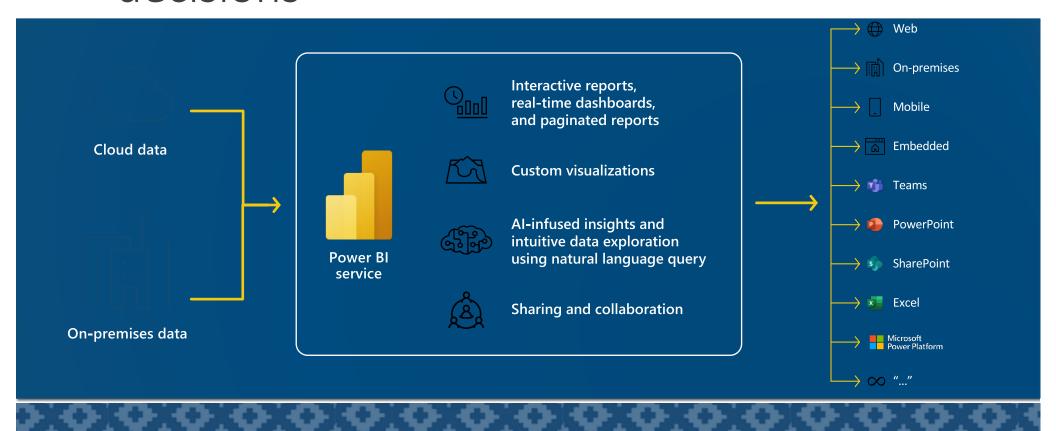
Power BI Premium per user

Power BI Premium per capacity

Power BI Premium per user

Power BI Embedded

Power BI: The bridge between data and decisions



Power BI Desktop



Get data

Easily connect, clean, and mashup data



Analyze

Build powerful models and flexible measures



Visualize

Create stunning interactive reports



Publish

Share insights with others



Collaborate

Empower your organization with self-service analytics



Download free from PowerBl.com or the Windows Store

Power BI Report Builder



Get data

From Power BI, or cloud and on-prem sources



Design

Create pixel-perfect report layouts



Visualize

Use mature and rich data regions, ideal for data grid layouts



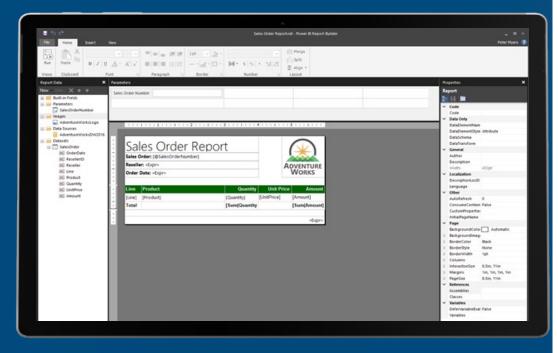
Publish

Share insights with others



Collaborate

Print or distribute multi-page report documents



Download free from PowerBl.com

Power BI Report Server



On-premise reporting solution

Power BI reports and SSRS reports on-premises



Connect to data

Over 100+ connectors. Data can be imported, queried or through live connections to SSAS



Power BI reports

Fully interactive reports on-premises to visualize your data and gain insights



SSRS reports

Precisely formatted operational reports



Consume in multiple ways Mobile Apps, Web Portal, Embedded in your organizational apps







- Secure, live connection to your data sources, onpremises and in the cloud
 - Al-infused insights and intuitive data exploration using natural language query
- Pre-built dashboards and reports for popular SaaS solutions
- Live, real-time dashboard updates
 - Deliver insights through other services such as Teams, SharePoint, Power Apps, Power Automate, and Power Virtual Agent



Power BI Mobile



Monitor your critical business data – anywhere, anytime



Discover new insights using mobile optimized views and features



Tap to explore, filter, cross highlight, bookmark, and zero-in on your data



Collaborate and share critical insights, in real-time



Power BI Mobile app is free

Power BI Embedded



Spend time focusing on your product instead of building analytics features from scratch



Connect to countless data sources so that you can expose insights to your customers



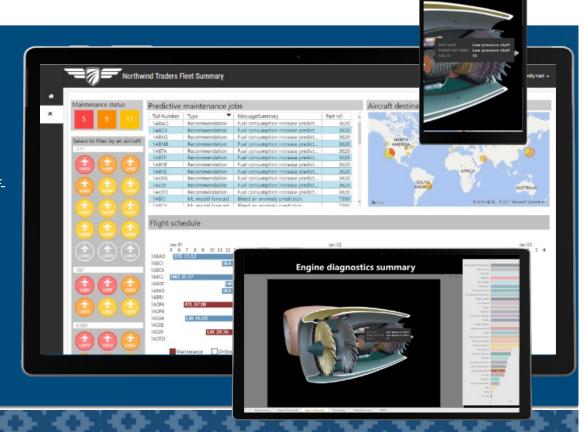
Choose the best way to visualize your data with out-ofthe-box, certified, and custom-built visuals



With visualizations optimized for desktop and mobile, your users can easily make decisions from anywhere

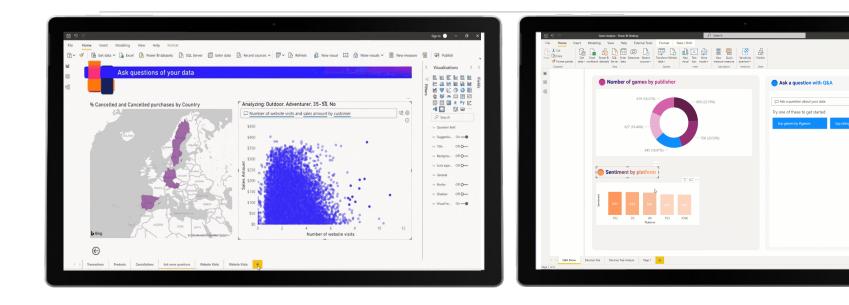


From preparing the development environment to deploying analytics in your application, make all of it simple and secure with Power BI Embedded APIs, SDKs, and wizards

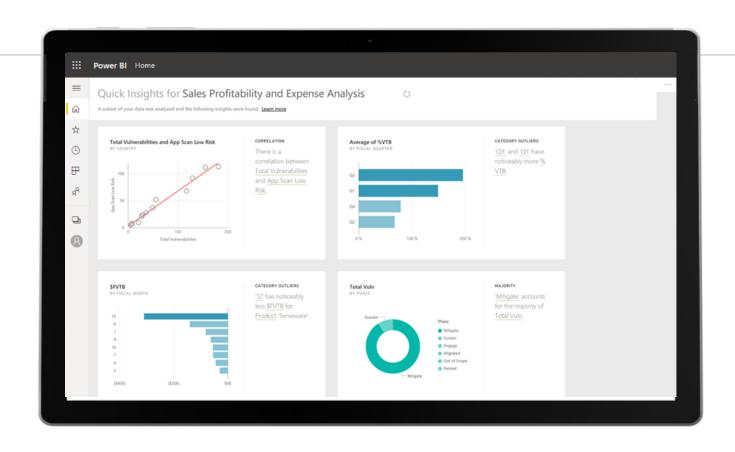


Engine diagnostics summar

"PowerPoint for Data"



Automatically discover insights from your data



Automatically generate data insights

Automatically generate visualizations based on your data

Build a dashboard quickly

Find insight in your data you may have missed

Built on a growing set of advanced algorithms

Cuick Insights for Exer reports - Sales

Author if nor day one margine and the following ranges was hove. Mexicol in Sales Services of Alles Margin

Committee Property

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Committee Property

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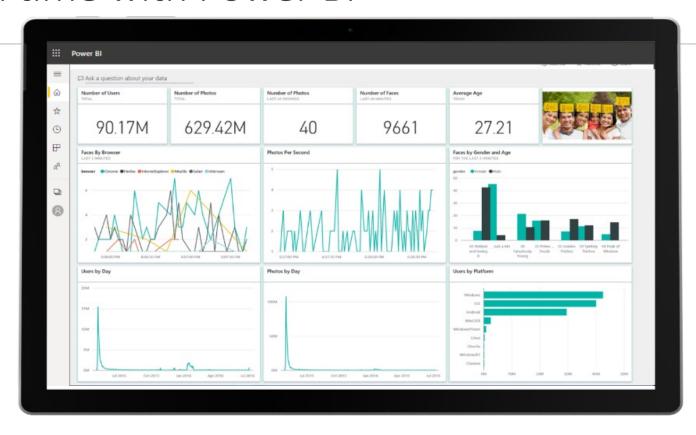
Committee Property

Committ

Quick insights

See online for more details >

Run your business with dashboards that update in real time with Power BI



Create dashboards for what matters most

Build dashboards to monitor your most important business metrics

Combine on-premises and cloud data in a single pane of glass

Data is visualized as tiles that you can resize, move, rename, pin, delete, or add a hyperlink

Choose different views (Full Screen, Fit to Screen, In-Focus)

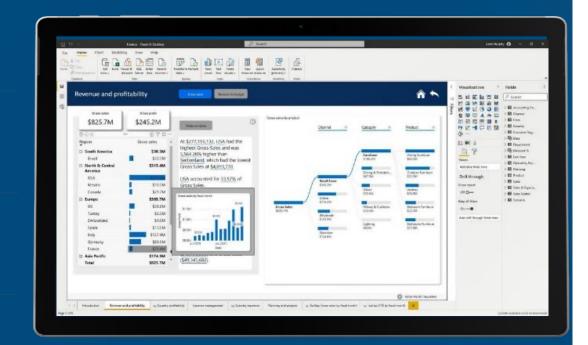
Set your featured and favorite dashboards for what you visit the most

Customize with images, videos, web code, text boxes and color schemes

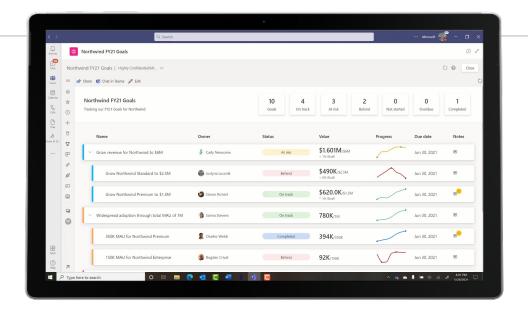


Built-in intelligence to empower everyone

- Quick measures for advanced calculations
- Out-of-the-box forecasting and through custom visuals
- 3 Grouping, binning, and clustering
- Built in integration for R and Python visualizations



Metrics in Power BI









Built for teams





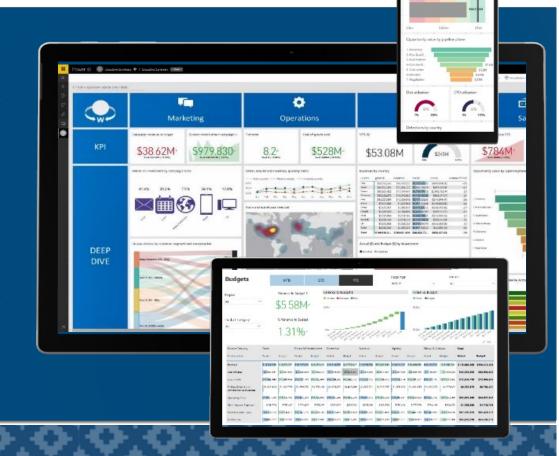
Share your work and collaborate with others

Share reports and dashboards with colleagues and other users

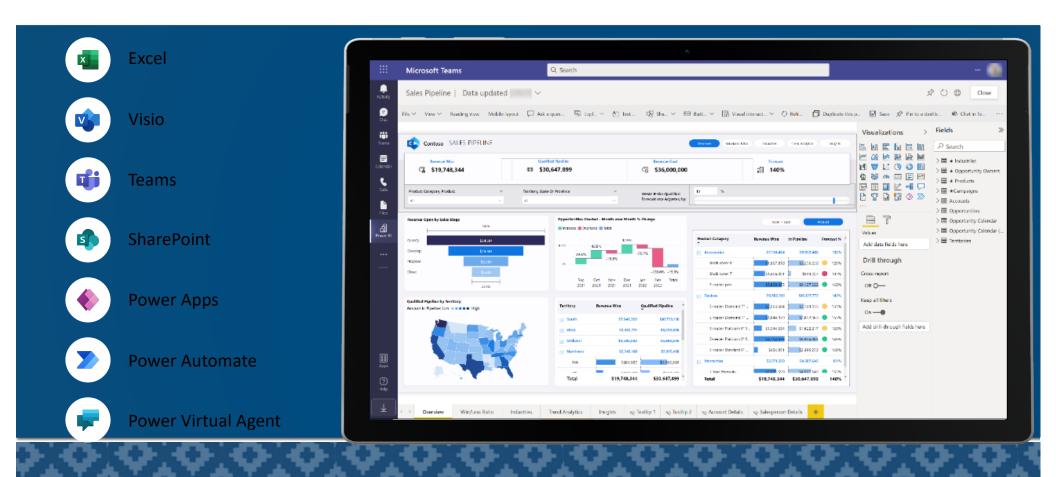
Collaborate in a workspace with granular membership control

Extend collaboration using an app and publish it to individuals, teams, or your whole organization

Personalize your collaboration by embedding visuals into your own applications



Deliver insights through



Support hybrid data



Al-powered analytics



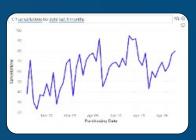
Information workers



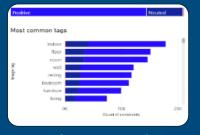
Business analysts



Data scientists











Q&A



Key driver analysis



Key phrase extraction



Sentiment analysis



Create ML models



Smart narratives

Root cause analysis

Explore predictions

Python and R integration

Extend with Azure ML

Taxonomy

Robotic Process Automation (RPA)

Process automation that encompasses the use of an application's graphical user interface (GUI), in which a user records a series of steps/actions/tasks for the automation technology to then perform as a process by repeating directly in the GUI.

RPA robot or "bot"

A GUI-based process running on a desktop or virtualized environment.

Attended bot

- Triggered by an explicit user action on their workstation, i.e., a local or remote desktop.
- Must operate concurrently with the user on the same workstation.
- Can run more than one discrete process, but each process must be serialized to run sequentially.

Unattended bot

- Runs autonomously without requiring user actuation.
- Can be deployed on a local, remote desktop, or other virtualized environment.
- Can run more than one discrete process, but each process must be serialized to run sequentially.
- Concurrent instances of a singular process require an additional unattended bot for each instance.

Digital Process Automation (DPA)

Digital Process Automation (DPA) is API-based automation in Power Automate that empowers citizen developers to build powerful automation across 370+ native connectors through no-code APIs. This enables streamlining and optimization of systems across people, processes, and technology to put focus on outcomes.

Desktop flow

A feature in Power Automate targeting the RPA market by enabling legacy apps to be automated via GUI vs API.

Processes executed via desktop flows can be contained within a broader API-based automation scenario or exist standalone.

Dataverse

- Dataverse enables the user to store and manage data used by business applications.
- Dataverse for Teams, built atop the Dataverse, delivers a built-in low code data platform for Microsoft Teams providing relational data storage, rich data types, enterprise grade governance, and one-click solution deployment.
- Dataverse is designed to be used in any application (not just Teams) and includes additional security features such as auditing, sharing, field level and hierarchical security. For a detailed comparison on Dataverse for Teams and Dataverse capabilities, please refer to the public documentation here.

Power Platform Licensing Resources

	Awareness	\rangle	Learning	>	Support
Resources	Power Platform Pricing & Licensing Pages Power Apps Pricing and Licensing Power Automate Pricing and Licensing Microsoft Copilot Studio Pricing and Licensing Power Pages Pricing and Licensing		Other Recommended Licensing Resources • Power Platform Licensing Guide • Power Platform Licensing FAQ • Microsoft Product Terms – Power Platform • Power Platform licensing training - Get Licensing Ready		Self-Help Support Power Platform admin center (PPAC) Help + Support Technical Support Overview Professional Direct support Unified Support (for Enterprise solutions)

