Microsoft Power Platform

Tech Talk Friday
Power Platform Premium

7th of June 2024, 2 PM

Adriano Perolini
SR Partner Solution Architect for
Business Applications

Agenda

Agenda
Introduction to Power Platform Premium
Premium Features
Real life use case
Resources
Closing Q&A

Microsoft Power Platform

Introduction to Power Platform Premium

Microsoft Power Platform

A comprehensive development platform – powered by low-code and AI

Power Apps

for
web and mobile
application
development

Power Automate

for
process
or workflow
automation

Copilot Studio

for
customizing
Microsoft Copilots
or building your
own copilot

Power Pages

for
building secure,
data-centric
business websites

Power BI

for
data exploration,
analytics and
reporting

1000+ Data connectors

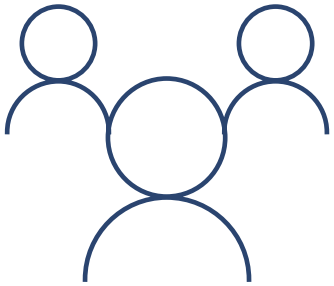
AI Builder

Dataverse

Power Fx

Managed Environments

Digital Transformation is Powered By People



End Users

4x

Experienced Developers

End users will be creating many more apps than experienced developers in the coming years

Power Platform Copilot

Copilot **accelerates and simplifies development** and is for everyone. Imagine your solution, describe it in everyday language, and copilot will create it for you via an intuitive and intelligent low code experience.

Power Platform Copilots

Maker copilots assist

Prompt: *"I want a ticketing app that connects to a Dataverse table to display, add, edit and delete tickets stored in the table."*

App copilots answer

Prompt: *"How many high risks deals are in my client portfolio this year?"*

Build & Extend any copilot

Prompt: *"Create a Power Point presentation based on the numbers and information in the CRM system"*

Dataverse

Reach set of capabilities

Tables that represent commonly used concepts and activities across a variety of business & app domains

Ability to **extend** the standard entities by adding **custom columns** and **relationships**

Add **custom tables** to support your scenario and application

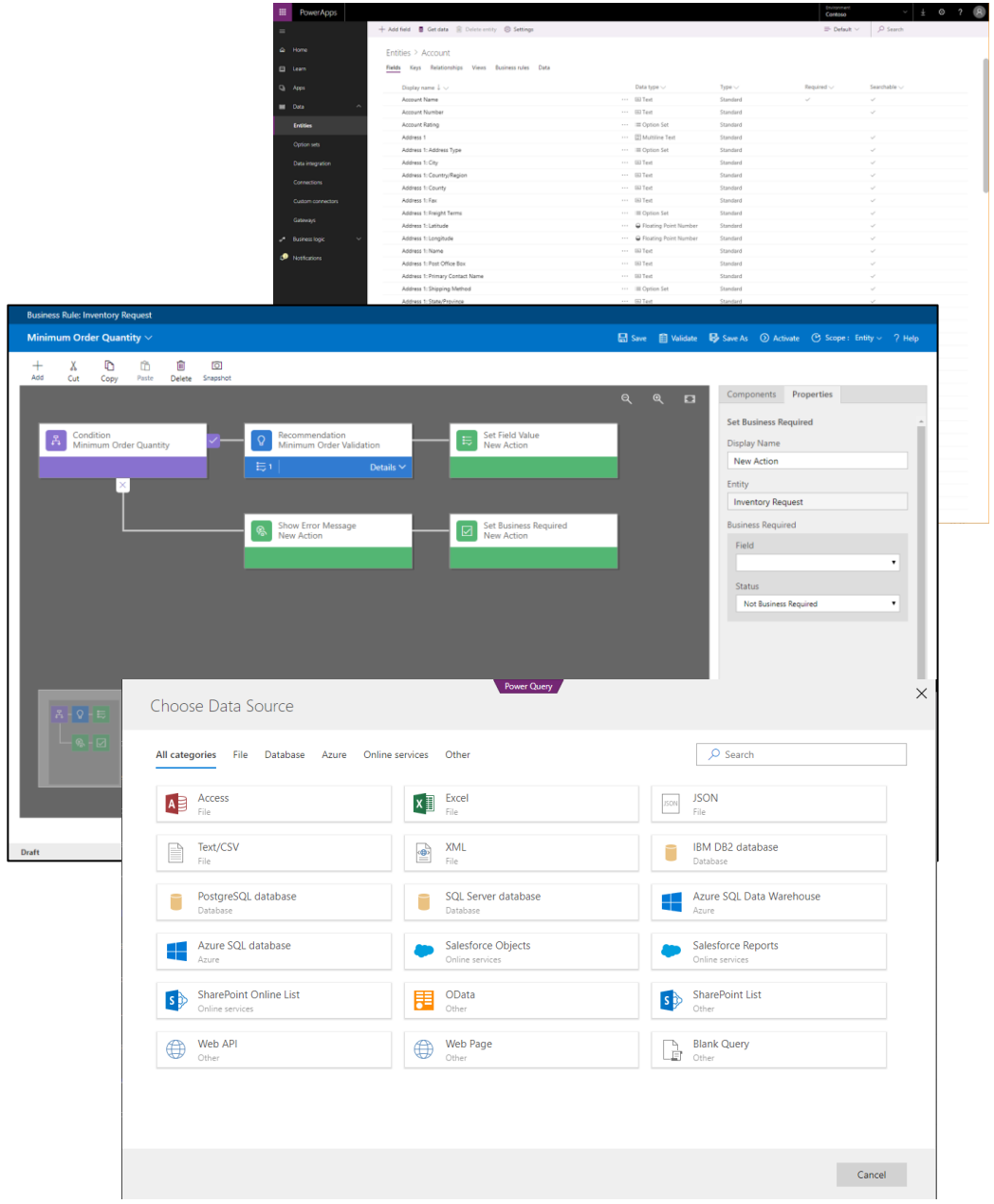
Create **calculated and roll up columns** to provide consistent calculations across apps

Define **business rules and validation** to ensure data quality

Easily **import and synchronize** your data using **Power Query**

Sophisticated ***security model*** providing row level security and even models hierarchies.

Production ready ***pro developer SDK*** allowing Dataverse access from any pro-dev application



SharePoint and Dataverse

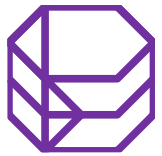
Comparison Areas

- Primary Use Cases
- Volume
- Data Model
- Data & Access
- Data Ingestion & Migration
- Intelligent Processing
- Roles & Permissions

Primary Use Cases

Collaboration

- Good choice for **collaborative/productivity scenarios**, where content is expected to be widely shared and edited by multiple parties
- Data is recorded as “List Items” in a SharePoint list. Users can use the SharePoint interface to access the data. Scope of data access is intended to be **broad**.
- Support for collaboration on **unstructured** content, e.g. Documents, images.



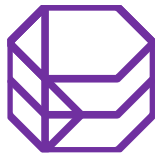
Transactional Records

- Good choice for **capturing of business data** as operational records, ready for audit/reporting use.
- Data is recorded as an “Entity record” in the Dataverse. Scope of data access is controlled by Role-based access control.
- Content is expected to be **highly structured**. Unstructured content is supported via File or Image data types and is treated as part of the Entity record.

Volume

Large volume for latent storage, but low volume for high CRUD operations

- When SharePoint reaches 5,000 items, it is considered a “Large List”. **Certain CRUD operations may be prevented**, though indexing and filtered views will allow certain operations in SharePoint pages, but not for external applications accessing its list items.



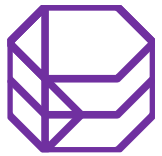
Very large volume with auto-scale

- The Dataverse is backed by multiple Azure SQL Elastic Pools and will automatically scale as required. There is **no theoretical limit** on the volume of data supported.

Data Model

Limited lookups

- SharePoint lists **limits to up to 12 look-ups per list**. Look-ups provide a simple relationship by creating references from a list column to another list. The options provided include one-to-one or one-to-many lookups.
- Limited query operations supported, using XML-based CAML query



Full relational model support

- The Dataverse implements the Common Data Model, which is an **open data model** as part of the Open-Data Initiative (ODI). The data model describes common business entities with a common schema that is understood by any Microsoft Business applications as well as business applications from partners.
- The Dataverse supports one-to-many and many-to-many relationship. This **supports simple to complex relationships**, including what is known as “polymorphic relations”.
- Powerful query operations using T-SQL statements or via FetchXML.

Data & Access

Via any SharePoint tools or interface

- SharePoint lists can be accessed from SharePoint's native interface, or via any tools that are allowed to connect to SharePoint (e.g legacy tools such as SharePoint Designer, or third-party tools available on the Internet).
- Data export to Excel is exposed as an end-user function.

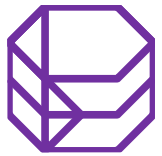
Through Power Platform

- Data access available through the Power Apps Maker portal or via programmatic interfaces (Rest API). No additional user interface access available for end-users except through Power Apps.
- Data export to Excel is via Power Automate or using Admin functions.
- T-SQL end-point provides read-only access for data professionals using existing tools such as SQL Management Studio.

Data Ingestion & Migration

Via scripts and 3rd party tools

- Use of third-party tools to import data from other sources, or via SharePoint PnP scripts, or via Power Automate. Data-shaping capabilities depends on codes or third-party tools.



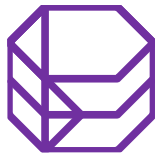
Full Power Query capability in Data Flow

- Data ingestion supported via Power Query, which provides data shaping and transformation as an ETL tool (Extract, Transform and Load).

Intelligent Processing

No native capability

- No native AI capabilities built-in. For intelligent analytics, data needs to be extracted and loaded into another platform. Data export require scripting or use of Power Automate, or third-party tools.
- No Direct Query support – data needs to be refreshed on a periodical schedule.



AI capability available

- Native AI capabilities built in via AI Builder. AI Builder capabilities include prediction models, text classification, sentiment analytics, OCR, and more.
- Links to Azure Data Lake Gen2 with continuous refresh.
- Direct Query support in Power BI for real-time updates.

Summary

Use SharePoint if:

1. There is a **collaborative need for the data –** e.g. Documents need to go through co-authoring.
2. **Data volume is relatively small**, no requirement for highly normalized data models.
3. There is **no item-level permissions** across all items. Item-level permission should be exceptions (not norm).
4. Data Access is **not exclusive to the app** and can be accessed via SharePoint's native UI as well.
5. **No requirement for intelligent processing** (e.g. Prediction, duplicate detection, etc.)
6. **Basic analytics requirement** (report and visuals on tabular data structure).

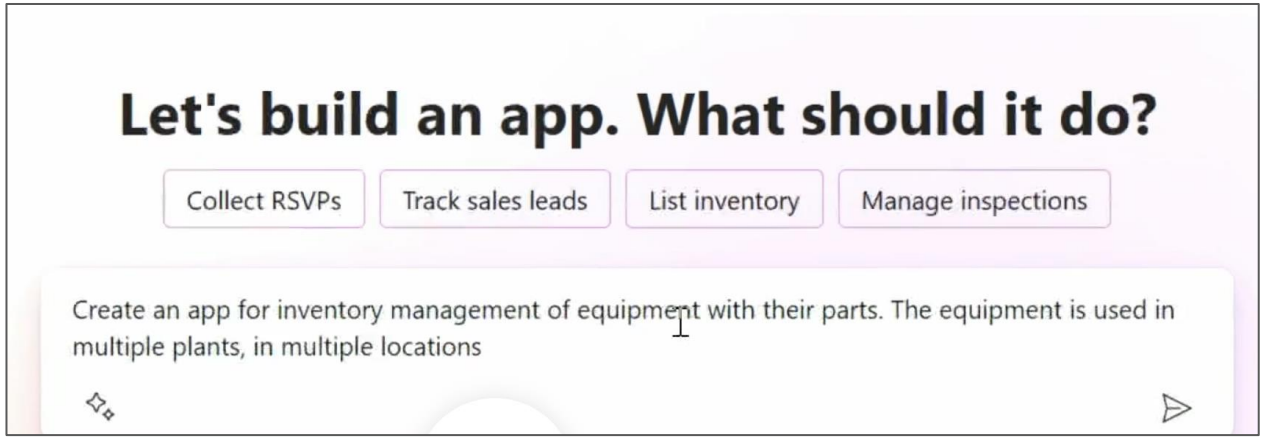
Use Dataverse if:

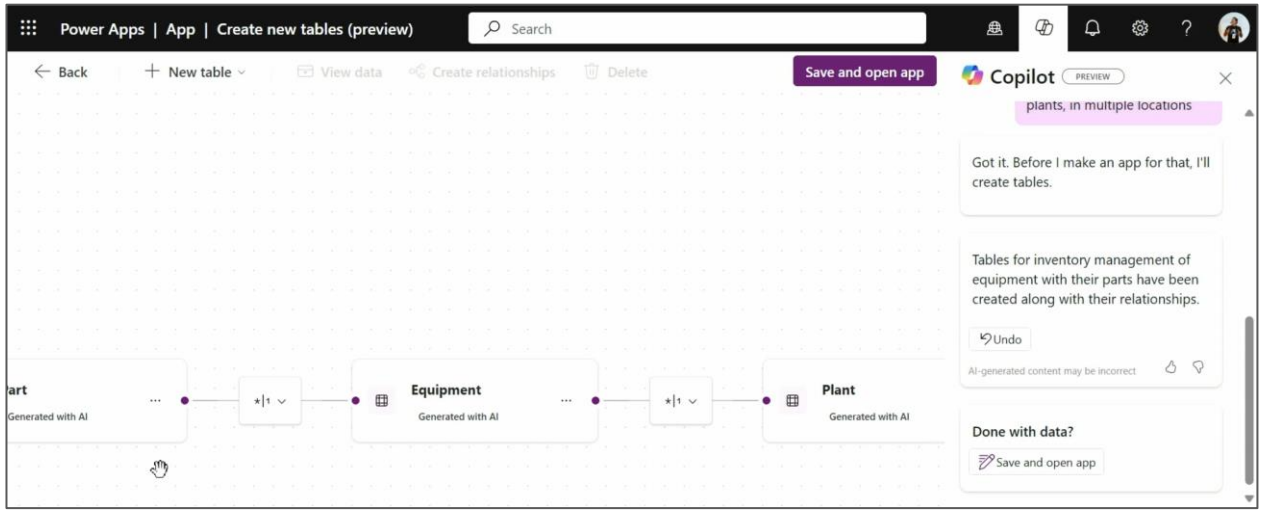
1. There is a need for data to be **created and updated frequently**.
2. Data volume can grow **beyond 5,000 records**, and solution can benefit from normalized data models.
3. **Role-based access** control is required.
4. **Data Access is limited** to only the required application interfaces.
5. Solution can benefit from **Artificial Intelligent capabilities**.
6. Solution can benefit from **analytic reporting** through Azure Data Lake.

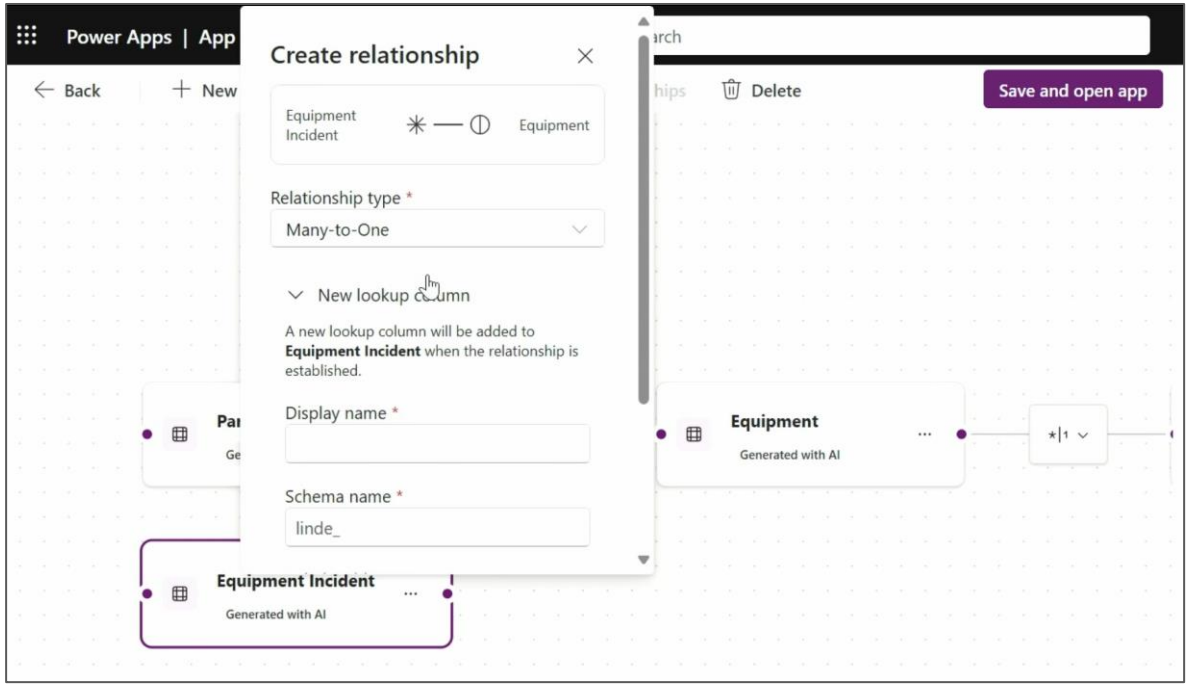
Microsoft Power Platform

Demo of Premium Features

Maker Copilots Assist

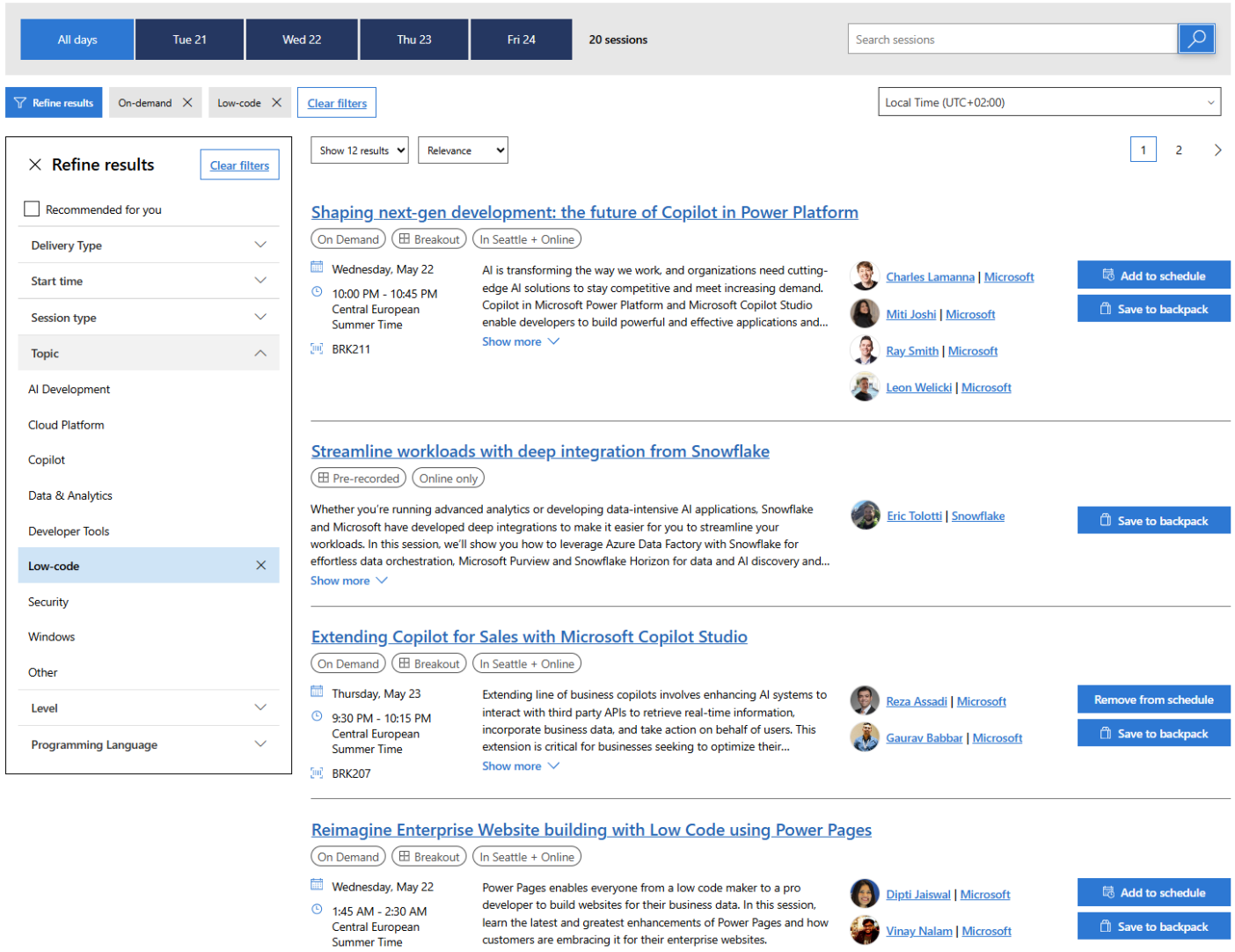






Source: ***Building the apps of the future today with Power Platform and Copilot –*** MS Build Session**: BRK201** [Link]

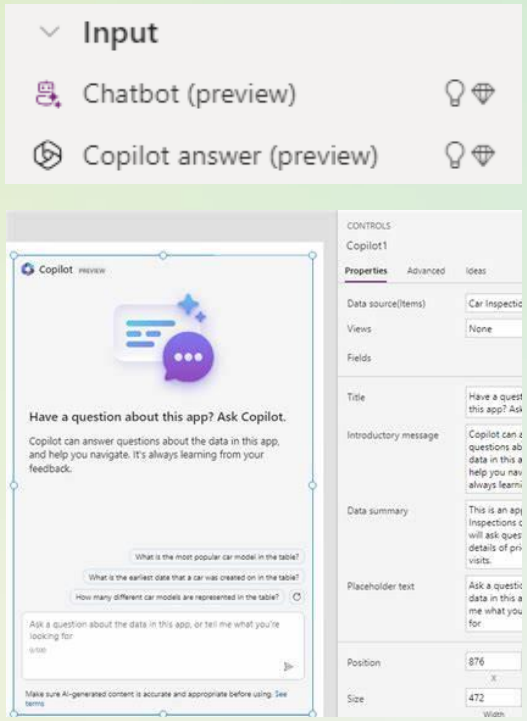
MS Build 2024 | 20+ sessions on Power Platform



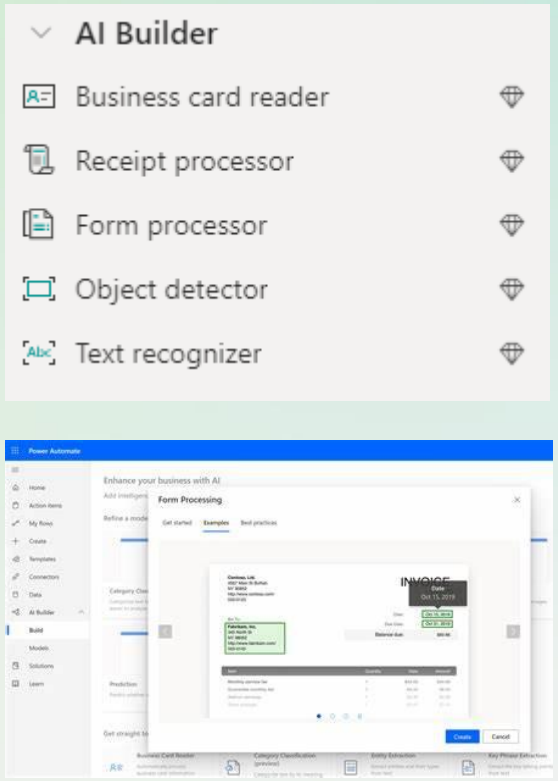
[Session scheduler (microsoft.com)]

Premium Controls

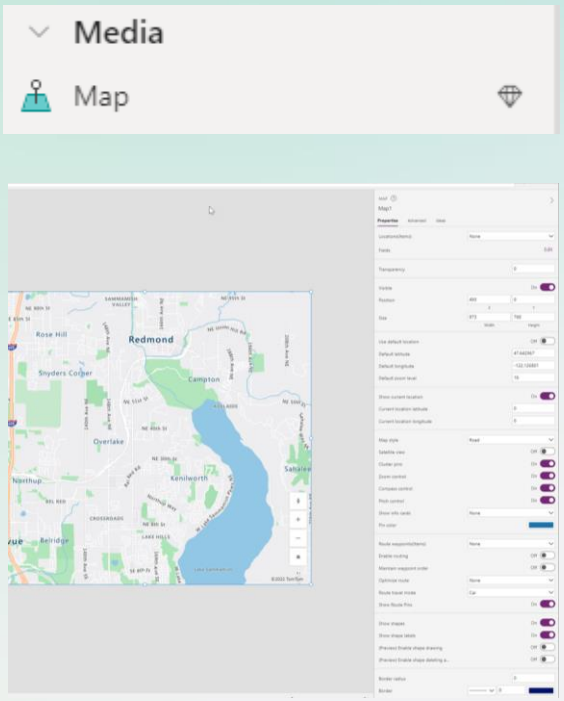
Copilot



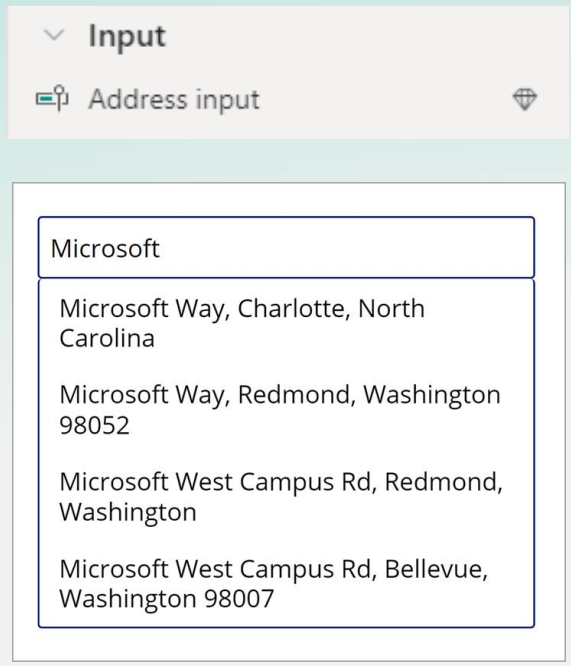
AI Builder



Maps



Address input



Governance is key to an Enterprise Scale Platform

Better Together

Managed Environments for Power Platform

More Visibility | More Control | Less Effort

Enhanced **out-of-the-box governance capabilities** that will simplify, automate, and **streamline IT administration** of Microsoft Power Platform **at scale**.

Power Platform Admin Center

A **unified portal** for administrators **to manage** environments and settings for **Microsoft Power Platform**.

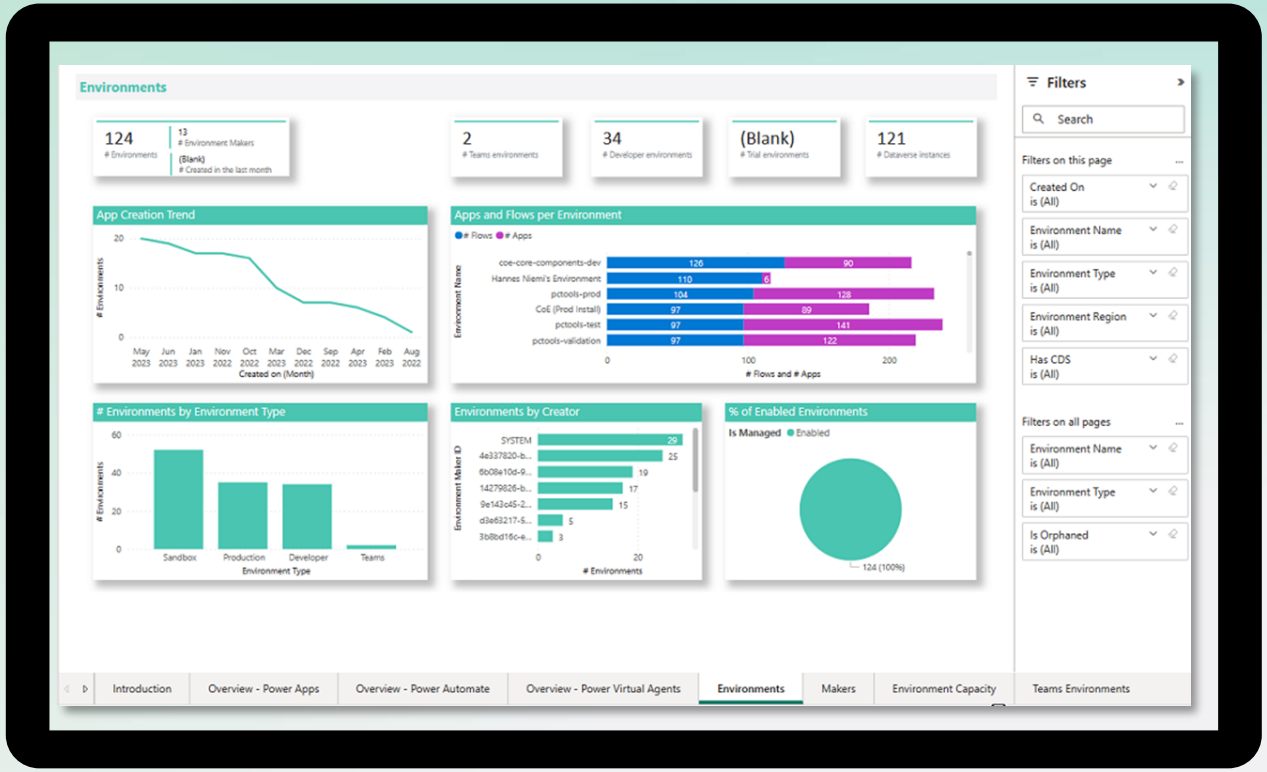
Center of Excellence Kit

A collection of components and tools designed to help you **get started** with developing a strategy for **adopting and supporting** Microsoft Power Platform

What is Center of Excellence Starter Kit

WHAT:

- A reference implementation of proven practices designed to give you a starting point when adopting, governing and nurturing Microsoft Power Platform
- Representative of what we have learned from customers
- Innovation and experimentation
- Implemented in an open-source low code model



WHY:

- Learn from some of the largest organizations implementing Power Platform.
- Provide signals on what matter most to you to influence the future product roadmap

LEARN MORE:

https://aka.ms/coestarterkit

Better together

Managed Environments

Out of the box governance capabilities to manage the Power Platform at scale with **more visibility**, **more control** and **less effort.**

https://aka.ms/MEGuidance

CoE Starter Kit

An open-source low code reference implementation of proven practices to get started, accelerate and nurture your Power Platform Adoption, based on years of customers experiences and feedback

https://aka.ms/coeskme

Getting Started: Start with the out of the box Power Platform Admin Center and Managed Environments. Explore the CoE Starter Kit and adopt workflows and insights to **augment your governance strategy**

On Going: Follow what's new in Managed Environments, and what innovations have been added to the COE Starter Kit (Influence by joining https://aka.ms/coeofficehours). Extend your toolbox with homegrown or 3rd party solutions where needed.

Microsoft Power Platform

Real life use case

Power Care

Christa Geller

Hearth Surgeon DIR

- Ask to Angel in Teams
- Explore Insights
- Explore News and Alerts
- We love your feedback
- Other PowerApps for you

Exit

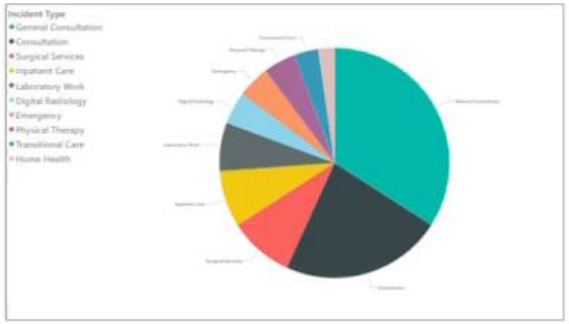
Patient management

Bed management

Appointments

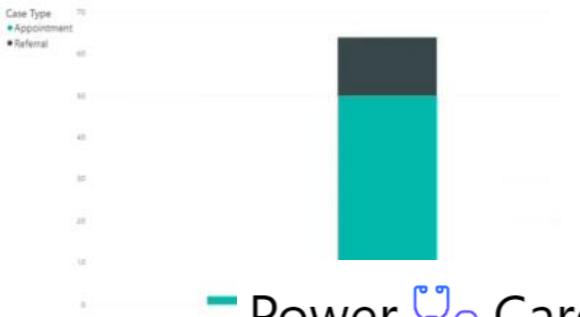
Help center

Appointments



Patient Visits by Location

Cases per Type



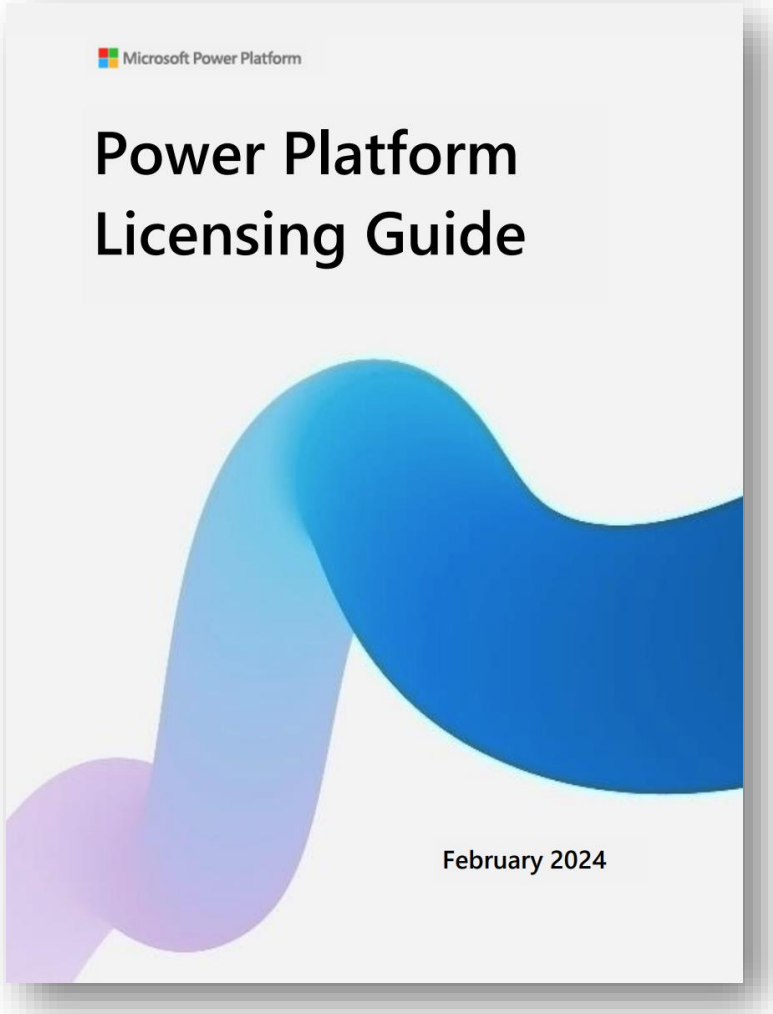
w meta-analysis examines 40 years' worth of research... -Experimental drug may prevent Alzheimer's disease...-Can diabetes influen

Power Care

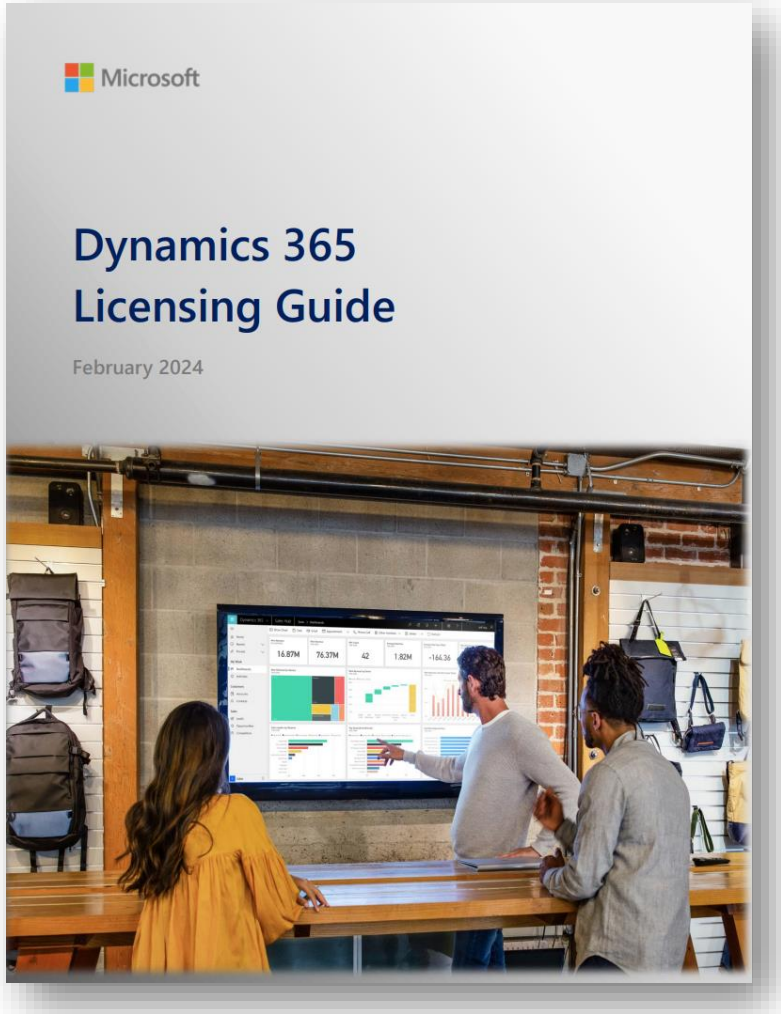
Microsoft Power Platform

Resources & Events

Licensing Guides



[Download]



[Download]

European Power Platform Conference

BRUSSELS
11–13 JUNE 24

Learn

- Get ready to deep-dive into Microsoft's Power Platform & Dynamics 365 stack with top class keynotes, insightful sessions and in-depth tutorials, delivered by Microsoft leaders, independent experts, Microsoft RD's & MVP's.
- Raise your game with key industry insights, discuss best practices, real-world scenarios, and access expert & peer knowledge to solve your project challenges.
- Build your skills across Power Platform, Power Automate, Power BI, Power Apps and Dynamics 365.

Connect

- Meet and network with 800-1500 Power Platform and Dynamics 365 peers from across Europe. After a prolonged period of virtual connection, experience the magic that happens when this community comes together.
- Forge powerful alliances with industry leading solution providers at the EXPO and learn about solutions to help your business progress with confidence.
- Network with product teams, trend setters and the key decision makers in this friendly community.

Be Inspired

- Experience the power of knowledge and connections across 3 days with a dedicated Power Platform and Dynamics 365 Conference.
- Get future focused with the latest innovations, expert advice, product advancements and announcements to take your career to the next level.
- Achieve mastery in specialist topics through full-day, hands-on tutorials from proficient community leaders.

https://aka.ms/EPPCWebsite

Microsoft Power Platform

Q&A

Microsoft

Thank you