GLOBAL POWER PLATFORM BOOTCAMP 2023

Organized Globally, Held Locally

Taking Microsoft Teams to the next Level... using Power Platform!

Federico Porceddu

Microsoft® Most Valuable Professional

POWER PLATFORM BOOTCAMP

Microsoft

#GlobalPowerPlatformBootcamp
#GPPB2023

Federico Porceddu

- Microsoft MVP in M365 Development
- In Avanade dal 2011
- Modern Workplace Technical Architect e Factory Lead
- M365 Patterns and Practices (PnP) Community Contributor

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European
Power Platform
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20–22 JUNE . 23

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Agenda

- **Why low-code**
  - Transform with Power Platform
  - Connectivity & App Makers
  - Power Apps Myth Busting
- **Power Platform e Microsoft Teams**
  - Teams Exstensibility Model
  - Microsoft Dataverse for Teams [*fast*]
  - Power Apps & Teams Integration
  - **DEMO** – Teams App Manifest
  - **DEMO** – Power Automate Teams Connectors
  - **DEMO** – Power Apps Teams integration Object

WHY LOW-CODE

TRADITIONAL BUSINESS APPLICATIONS DON'T MEET CUSTOMER NEEDS

- We are moving in a digital direction…
- …demand is growing more quickly than supply…
- …we cannot find people to close the demand gap.

CUSTOMERS CAN'T EXECUTE LOW-CODE ALONE

- Tech talent limitations
- Ground up software development takes time
- Surging digital demand
- Security and compliance Risks

LOW-CODE EXTENDS YOUR DEVELOPMENT POTENTIAL

The average cost to develop an app is less with Power Platform than with traditional coding methods.

Transform with Power Platform

No Code

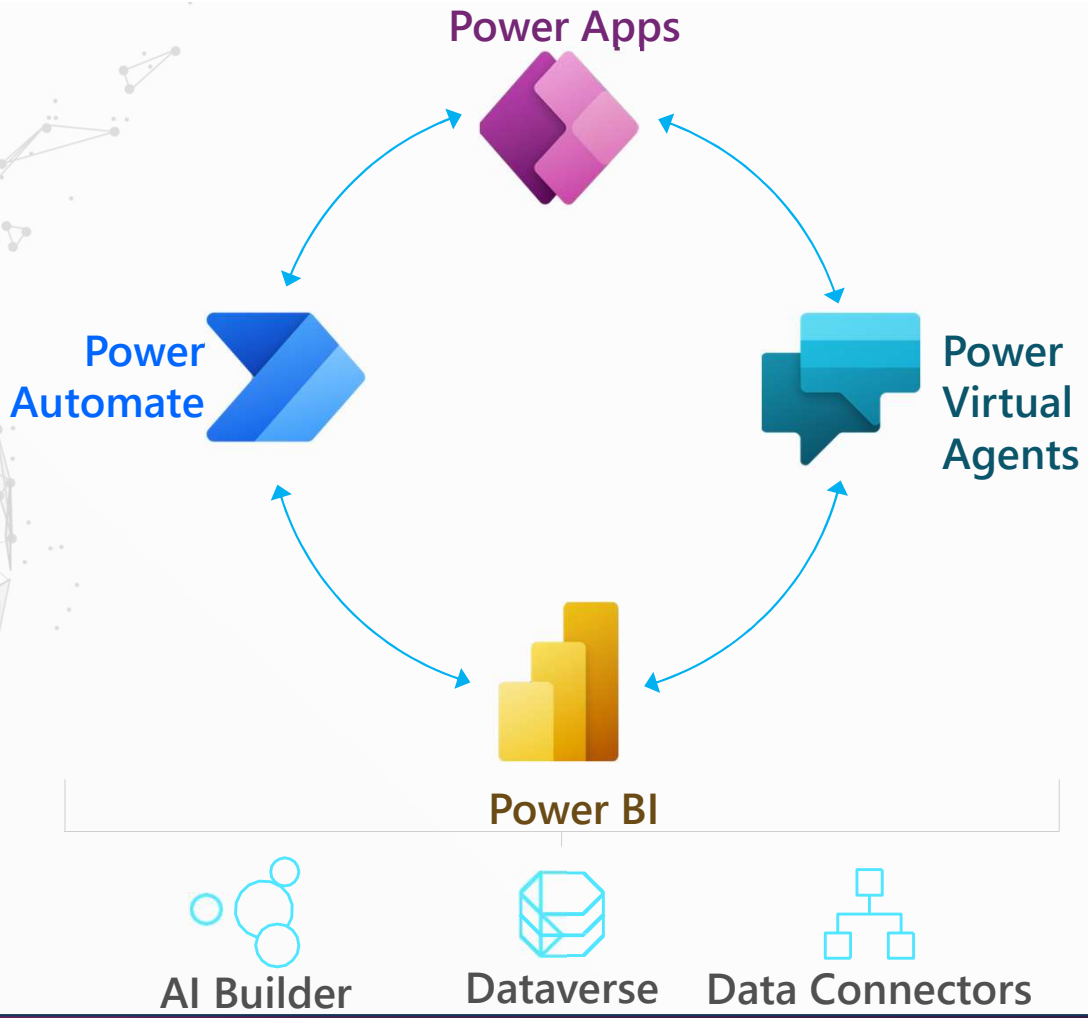
Drag and drop experiences that are like PowerPoint

Low Code

Drag and drop plus Excel-like formulas for functionality

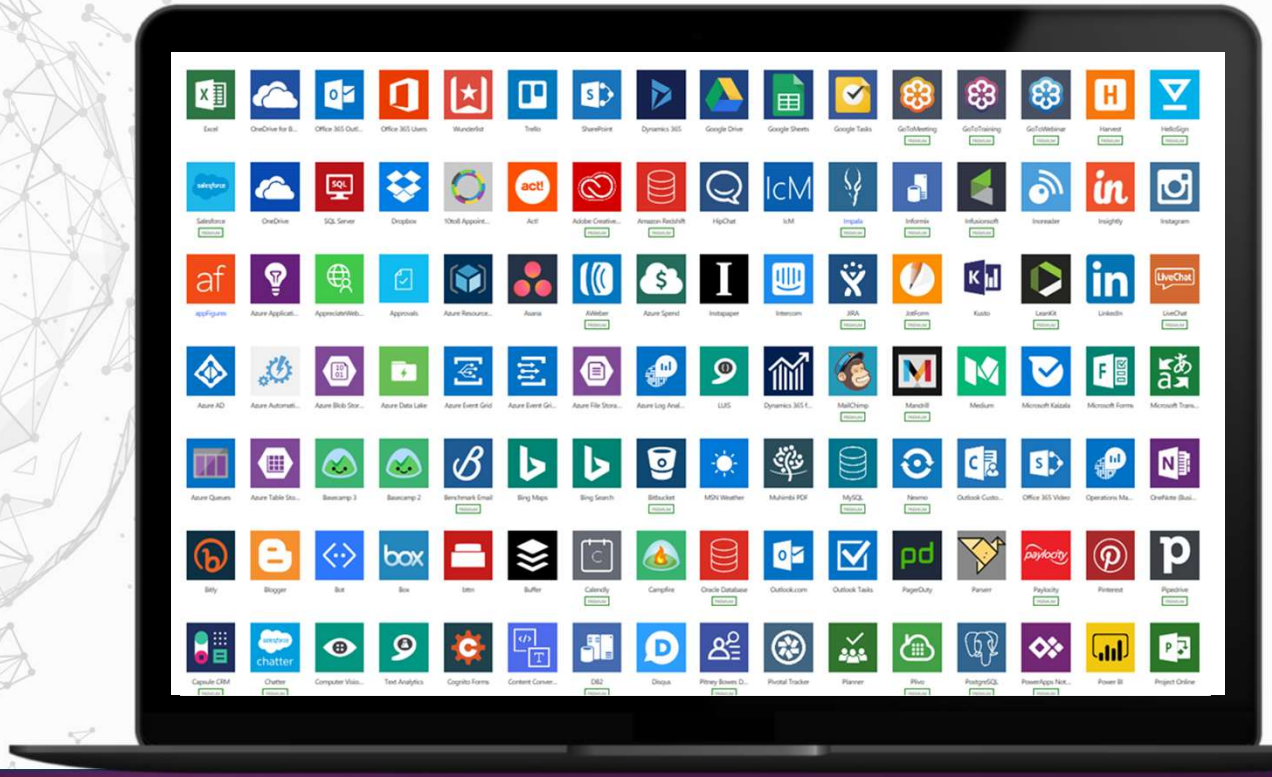
Code First

Professional development & extensibility across Microsoft



MAKE IT EASIER TO UNLOCK DATA SILOS WITH CLOUD AND ON-PREMISES CONNECTIVITY

- Built-in connectivity to 415+ cloud services, content services, databases, APIs, etc.
- Seamless hybrid connectivity to on-premises systems via the on-premises data gateway.
- Develop and register custom connectors as a building block for citizen developers.
- Break down data silos by using multiple data sources in a single application.
- Easily integrate any Azure services, like Azure Functions, Azure Kubernetes Service, Azure SQL, or Cosmos DB



A PLATFORM FOR ALL APP MAKERS FROM CITIZEN DEVELOPER TO PRO DEVELOPER

Citizen Developers | IT Professionals | Pro Developers

SIMPLE — COMPLEX

Low-Code Capabilities

- Self-service capabilities for users to take their own ideas on how to optimize or automate their work in the form of a Power Apps app
- Unlocks app development backlog – Individual or Team Productivity apps that would otherwise never get built

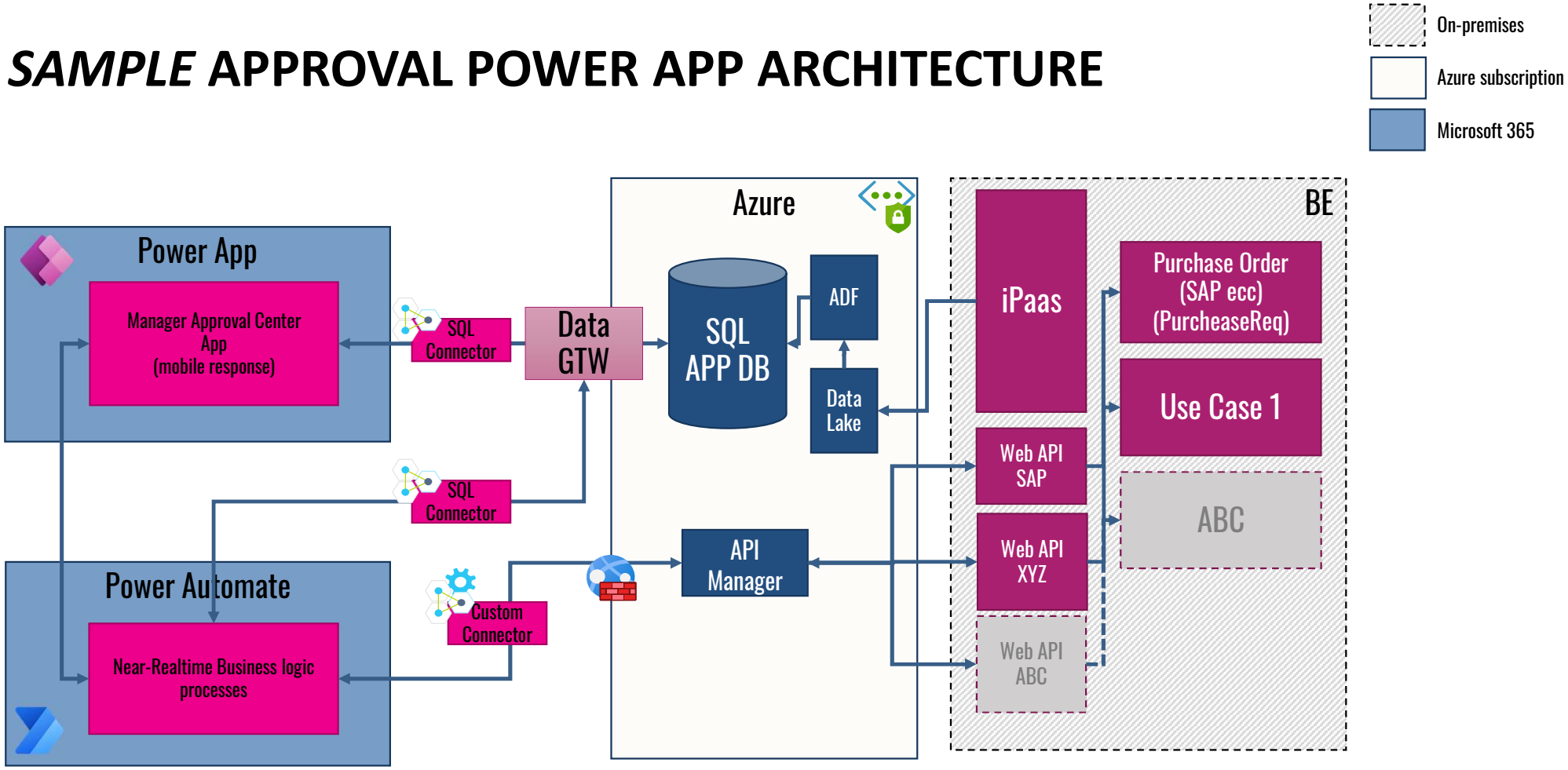
Advanced Capabilities

- High productivity app development – reduce time to develop and deploy
- Powerful tools for existing apps customization and legacy app modernization – Use code to unblock complex requirements
- "No limits" extensibility – build complex, customized applications
- Add powerful BI, AI and chatbot functionality
- Extend Dynamics 365, Office 365 and Azure solutions
- Use pre-built templates and entities with pro developer business logic and rules
- Standard dev tools – Visual Studio, VS Code, Azure DevOps
- Enterprise-grade governance and world-class app lifecycle management

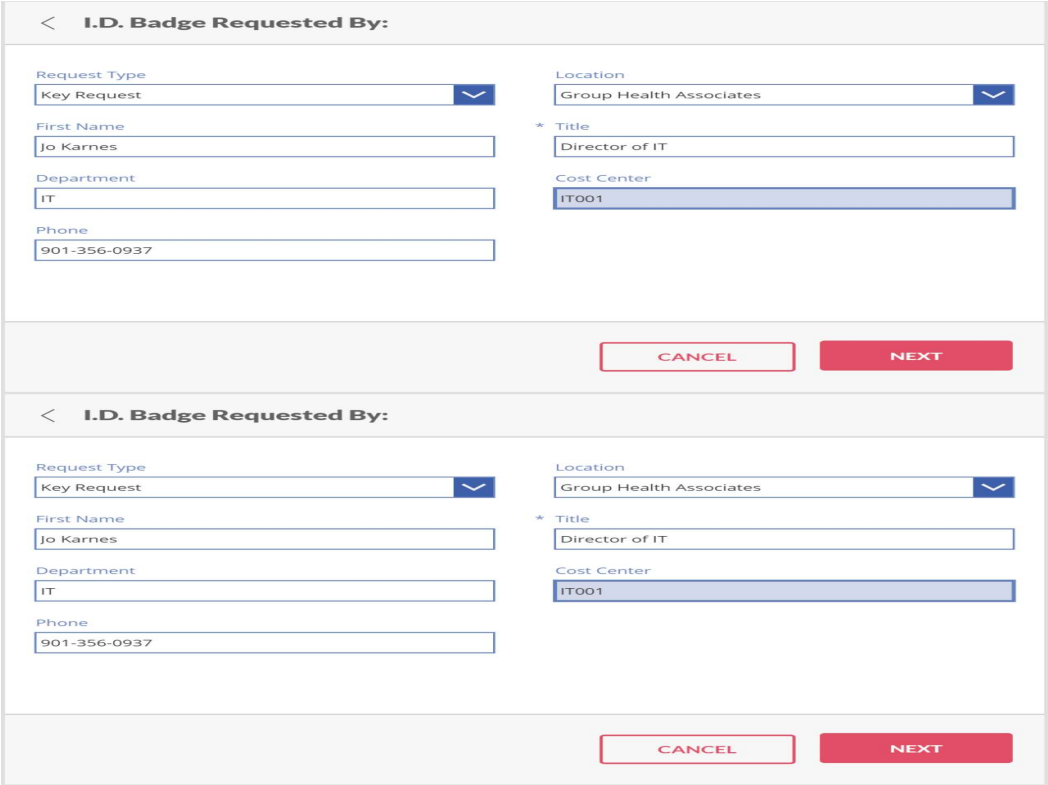
POWER APPS MYTH BUSTING

Myth	Reality
Power Apps in only for building mobile apps	Power Apps is for building Cloud Apps that work across devices
Power Apps is only good for building basic functionality apps, but not for building sophisticated and complex apps	Dynamics 365 apps are built on Power Apps. Those are very complex and sophisticated apps
Power Apps is low code so customers don't need our help building Power Apps	Business users will not build complex apps. E.g. Dynamics 365 apps are built on Power Apps. Could a business user build those? Not a chance!
Power Apps doesn't make sense for Azure Line of Business ISV apps	Power Apps and Azure work better together to accelerate innovation and to extend functionality
Power Apps only make sense for Dynamics 365 ISVs	Most of the apps that are built on Power Apps take no dependency on Dynamics 365
Power apps can only be used for building net new applications and not for enhancing existing applications	Power Apps accelerates innovation for enhancing existing apps

SAMPLE APPROVAL POWER APP ARCHITECTURE



Bonus Myth: Power Apps Are Ugly. You can't make them look like "real" apps

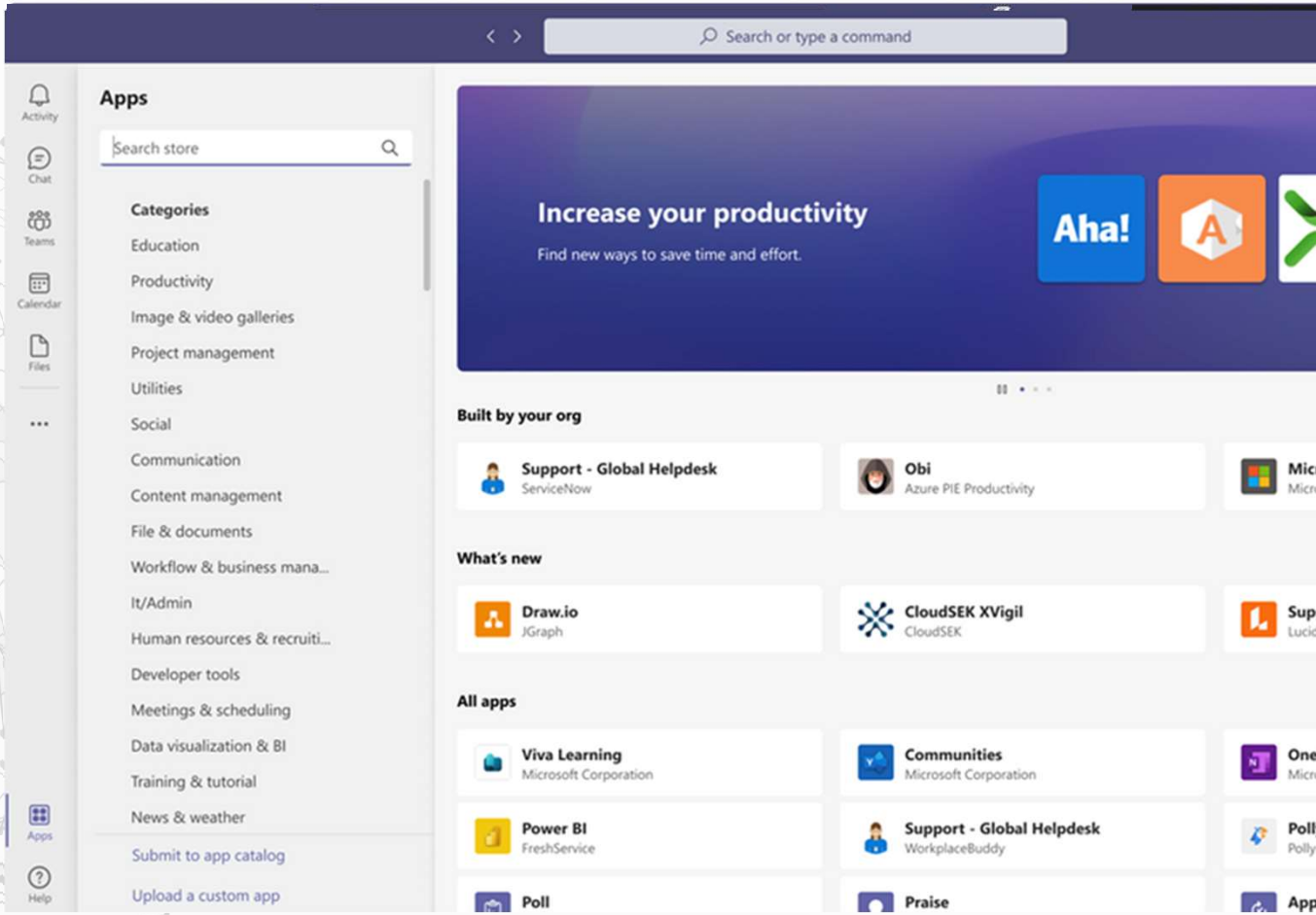


Where does Teams fit into all of this?

Microsoft Teams

is the hub for teamwork in Microsoft 365

- Chats
- Meetings
- Calls
- Files
- Apps and workflows



TEAMS IS A PLATFORM FOR YOUR APPS AND WORKFLOWS

Microsoft Teams

Productivity apps

Low-code dev and automation

Processes and custom apps

Departmental tools

Employee resources

Processes and workflow

Support and info

Integrated apps, processes automation, and business intelligence

HARNESSING THE GROWTH OF MICROSOFT TEAMS AND THE POWER PLATFORM

Microsoft Teams

Chat, collaboration, meetings, calls and application integration for more than 280 million daily active users.

Power Platform

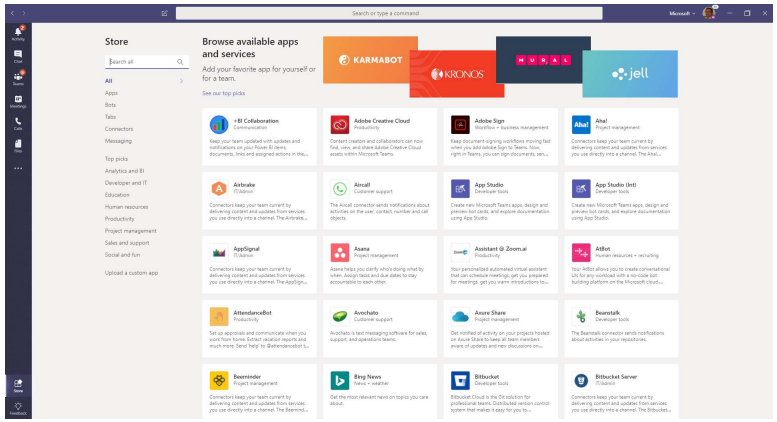
Used by 97% of Fortune 500 companies to accelerate the development of internal applications and enable Citizens Developers to create customized solutions.

TEAMS AS AN APPLICATION PLATFORM

Microsoft Teams provides a powerful and extensible platform

Build apps with a rich set of capabilities to reach your users through chat, channels, notifications and personal workspace.

Integrate with new or existing business processes and services



Tabs — Power Apps, Power BI

Surface rich content as well as Power Apps and SharePoint Framework* based solutions

Bots

Help users get tasks done in conversations

Power Virtual Agents

Message Extensions

Allow users to query and share rich cards in conversations

Connectors

Post rich updates to channels

Adaptive Cards — Power Automate

Add rich interaction to your connector cards

Activity Feed — Power Automate

Engage users via feed notifications

Microsoft Graph

Build in intelligence and connect to data that drives productivity

App Store — Power Apps

Drive engagement by submitting your app to our app store or just to certain company stores

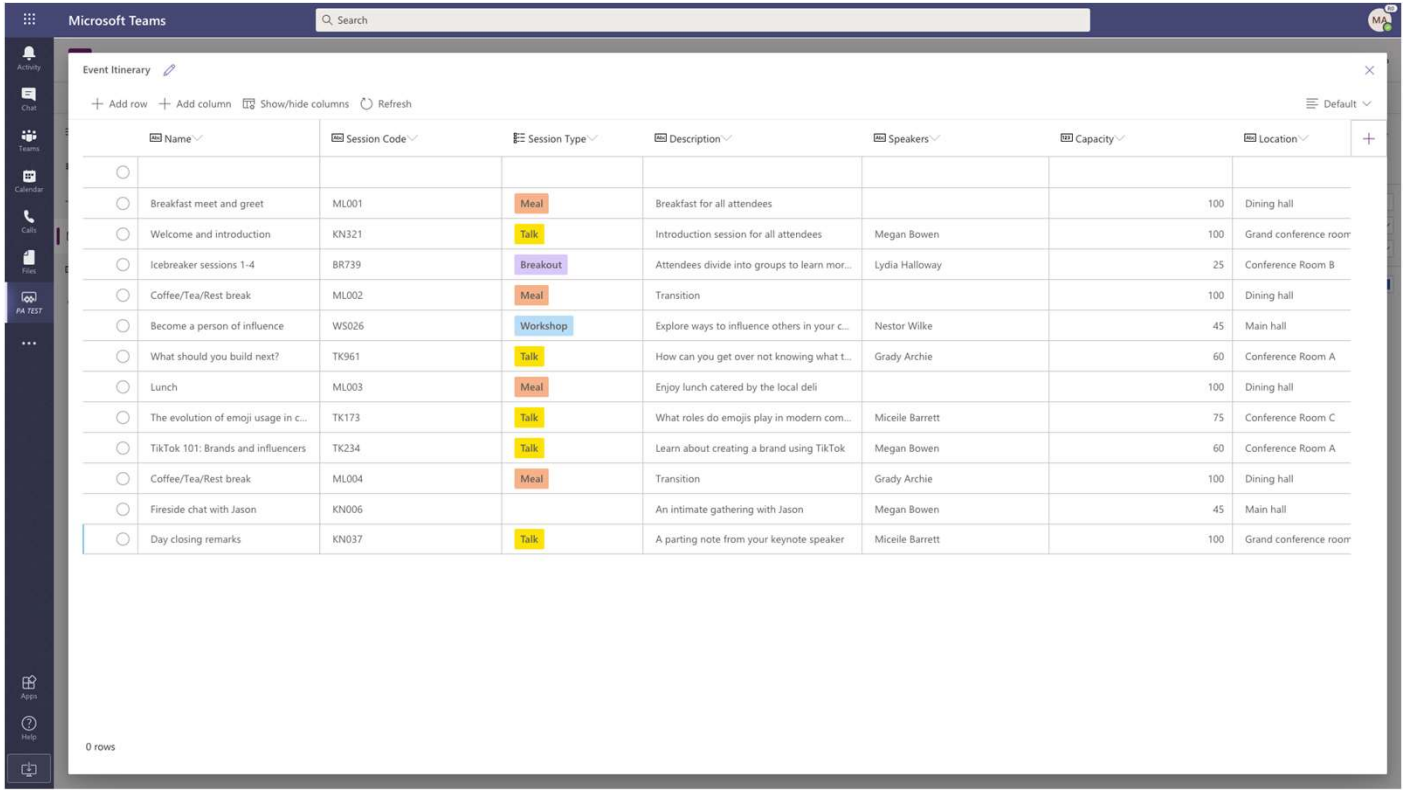
MICROSOFT DATAVERSE FOR TEAMS

A built-in low code data platform for Microsoft Teams

A subset of the capabilities of the data platform behind Dynamics 365 and Power Platform.

Provides storage, rich data types with enterprise capabilities, and one-click solution deployment.

Included for every Teams customer, governable by IT.

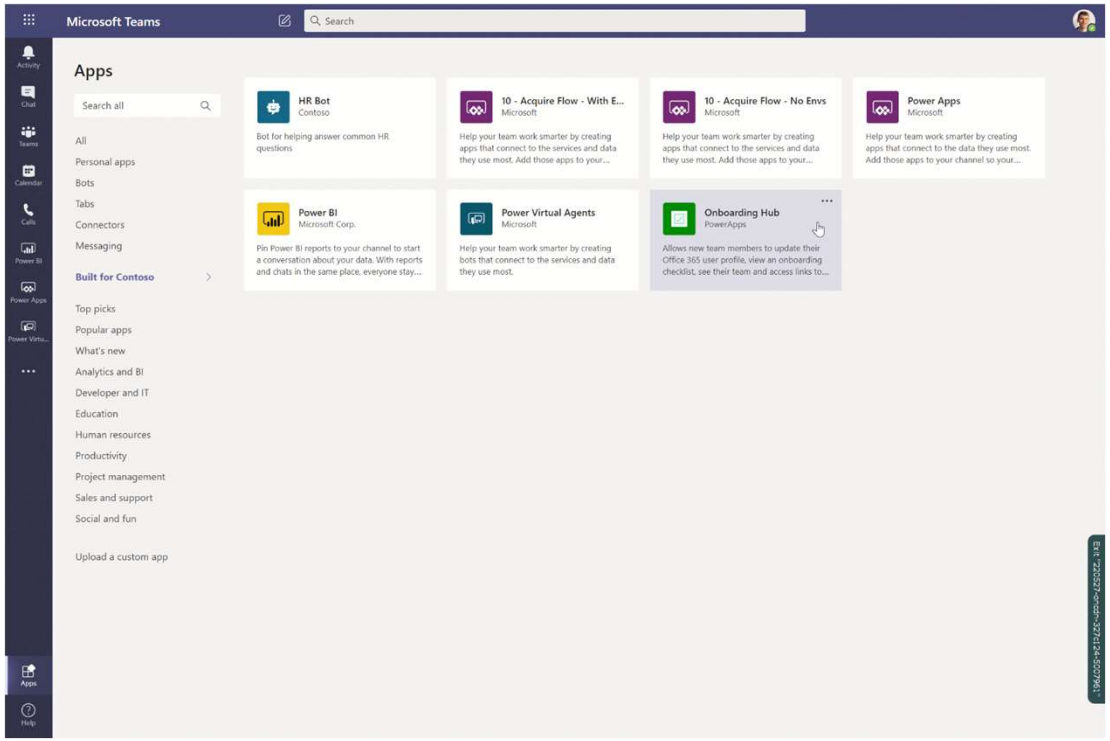


Name	Session Code	Session Type	Description	Speakers	Capacity	Location
Breakfast meet and greet	ML001	Meal	Breakfast for all attendees		100	Dining hall
Welcome and introduction	KN321	Talk	Introduction session for all attendees	Megan Bowen	100	Grand conference room
Icebreaker sessions 1-4	BR739	Breakout	Attendees divide into groups to learn mor...	Lydia Halloway	25	Conference Room B
Coffee/Tea/Rest break	ML002	Meal	Transition		100	Dining hall
Become a person of influence	WS026	Workshop	Explore ways to influence others in your c...	Nestor Wilke	45	Main hall
What should you build next?	TK961	Talk	How can you get over not knowing what t...	Grady Archie	60	Conference Room A
Lunch	ML003	Meal	Enjoy lunch catered by the local deli		100	Dining hall
The evolution of emoji usage in c...	TK173	Talk	What roles do emojis play in modern com...	Miceile Barrett	75	Conference Room C
TikTok 101: Brands and influencers	TK234	Talk	Learn about creating a brand using TikTok	Megan Bowen	60	Conference Room A
Coffee/Tea/Rest break	ML004	Meal	Transition	Grady Archie	100	Dining hall
Fireside chat with Jason	KN006		An intimate gathering with Jason	Megan Bowen	45	Main hall
Day closing remarks	KN037	Talk	A parting note from your keynote speaker	Miceile Barrett	100	Grand conference room

INSTALL POWER PLATFORM SOLUTIONS INTO TEAMS WITH A SINGLE CLICK

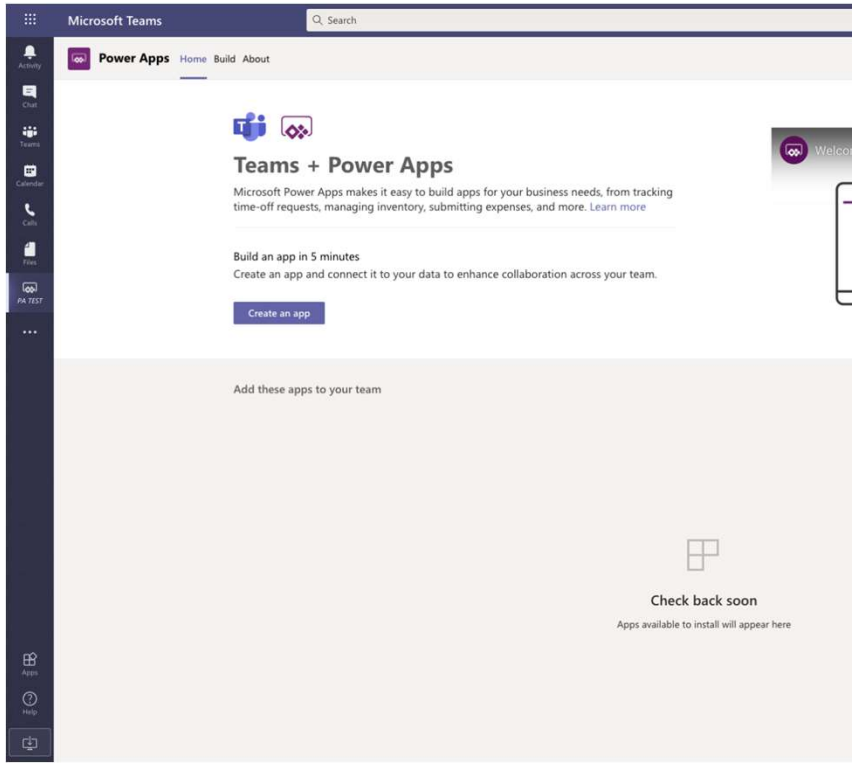
Thanks to Microsoft Dataverse for Teams, Teams users can find and install custom solutions in the Teams app store

Citizen developers or partners can now easily put their solutions where Teams users know where to look



MICROSOFT DATAVERSE FOR TEAMS – BUILT IN SECURITY AND GOVERNANCE

- Microsoft Dataverse for Teams is enterprise grade and designed to work within Teams.
- Focused on Teams, it aligns with the core roles identified in that environment, e.g. Owners, Members, and Guests.
- Access to the environment is restricted just to the Teams owners, members and guests
- Ability to assign different security role to Teams Owners and Members. No security settings management for Business Unit and Teams is required.



POWER PLATFORM AND MICROSOFT TEAMS INTEGRATION

Enablers and Models

PERSONAL APP VS TAB APP

Use the Power Apps tab for Teams to embed a canvas app as a tab app in Teams.

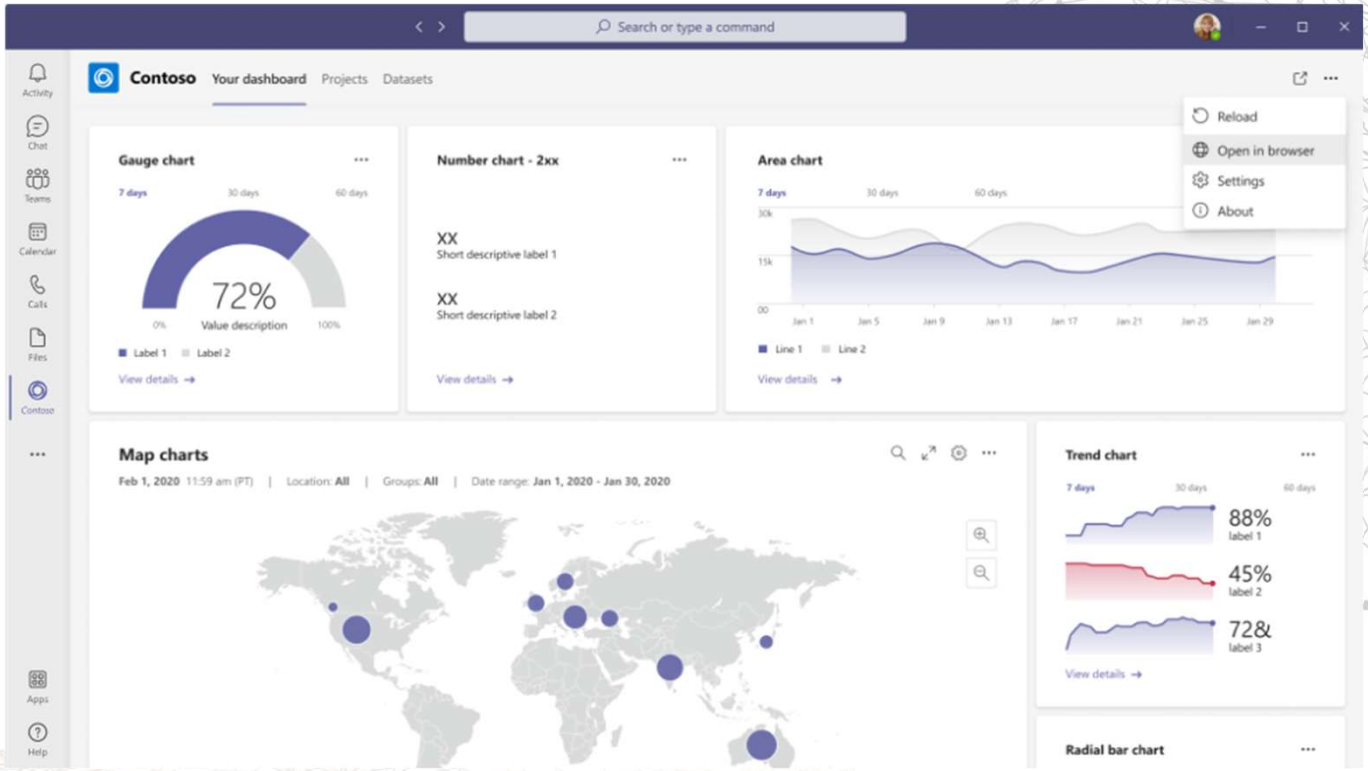
MICROSOFT TEAMS CONNECTORS

It allows you to work with teams, channels, chats, tag, meetings, mentions, adaptive cards and more!

MICROSOFT TEAMS INTEGRATION OBJECT

You can use the Teams integration object to easily find and access the Teams integration features and use the improved usability of expressions while integrating your canvas app with Teams.

TEAMS PERSONAL APP VS TAB APP



DEMO – Teams App Manifest

MICROSOFT TEAMS CONNECTORS - TRIGGERS

Triggers - A trigger is an event that starts a flow

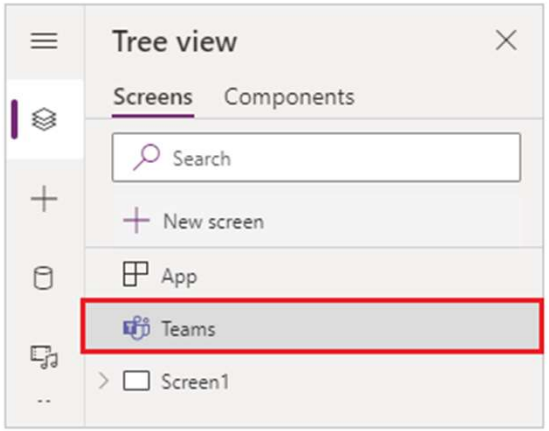
- When a new channel message is added
- When I am mentioned in a channel message
- When a new chat message is added
- When a new team member is added
- When a new team member is removed
- When I'm @mentioned
- When keywords are mentioned

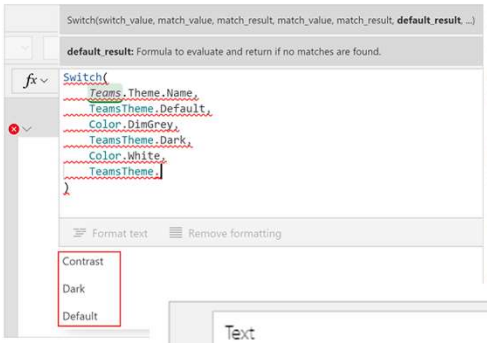
MICROSOFT TEAMS CONNECTORS - ACTIONS

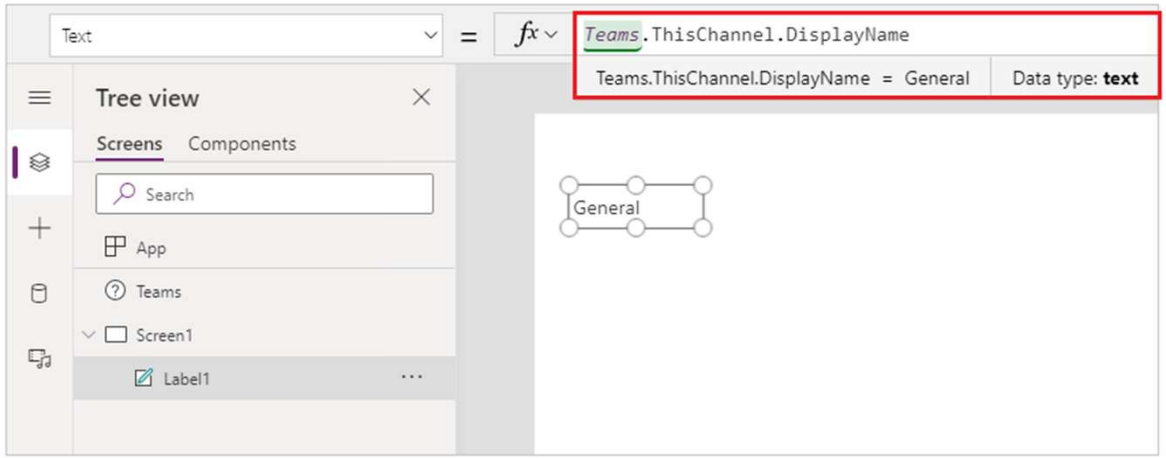
- Add a member to a team
  Microsoft Teams
- Create a Teams meeting
  Microsoft Teams
- Create a chat
  Microsoft Teams
- Create a team
  Microsoft Teams
- Get message details
  Microsoft Teams
- Get messages
  Microsoft Teams
- Post a choice of options as the Flow bot to a user
  Microsoft Teams
- Post adaptive card and wait for a response
  Microsoft Teams
- Post adaptive card in a chat or channel
  Microsoft Teams
- Post message in a chat or channel
  Microsoft Teams
- Reply with a message in a channel
  Microsoft Teams
- Reply with adaptive card in a channel
  Microsoft Teams
- Respond in Teams task module
  Microsoft Teams
- Update an adaptive card in a chat or channel
  Microsoft Teams
- Add a member to a tag
  Microsoft Teams
- Create a channel
  Microsoft Teams
- Create a tag for a team
  Microsoft Teams
- Delete a member from a tag
  Microsoft Teams
- Delete a tag
  Microsoft Teams
- Get a team
  Microsoft Teams
- Get an @mention token for a tag
  Microsoft Teams
- Get an @mention token for a user
  Microsoft Teams
- List all tags for a team
  Microsoft Teams
- List channels
  Microsoft Teams
- List chats
  Microsoft Teams
- List teams
  Microsoft Teams
- List the members for a tag
  Microsoft Teams
- Post a feed notification
  Microsoft Teams

DEMO – Power Automate Teams connectors

MICROSOFT TEAMS INTEGRATION OBJECT







- Get the Teams theme
- Get the Teams channel name to filter app data

DEMO – Power Apps Teams integration Object

RESOURCES

Microsoft 365 Developer program

https://developer.microsoft.com/en-us/microsoft-365/dev-program

Build collaborative apps with Microsoft Teams

https://developer.microsoft.com/en-us/microsoft-teams

Any Questions?

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Please fill out the survey!

https://aka.ms/gppb23mifeedback

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Thank you

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