

Digitalizace výroby s využitím Microsoft nástrojů

Ing. Jan Dvořák | Lektor digitální
transformace | Microsoft a Autodesk |
Procesní a datová automatizace | Průmysl
4.0

Certifikovaný trenér Microsoft | 1000+ lidí |
Excel, Power BI, Power Platform, AI



Digitalizace, automatizace



Microsoft Power Platform

The low code platform that spans Microsoft 365, Azure, Dynamics 365, and standalone apps.



Power BI

Business analytics



Power Apps

App development



Power Automate

Process automation

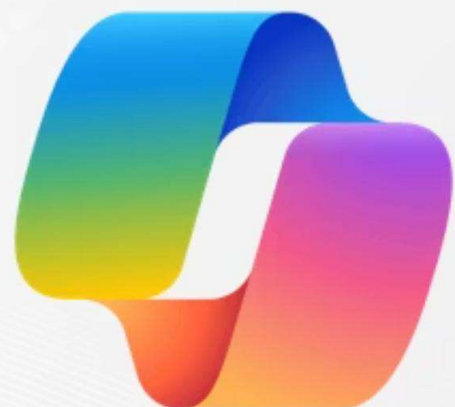


Power Pages

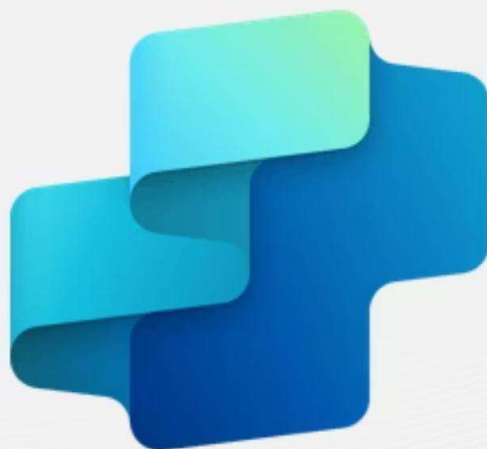
External-facing
websites

AI automatizace

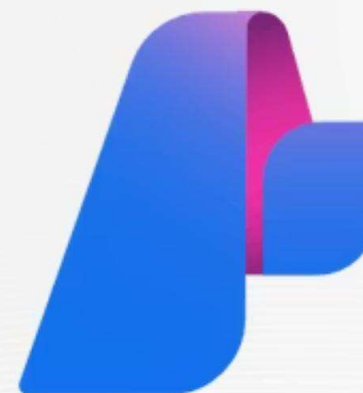
Copilot (M365)



Copilot Studio

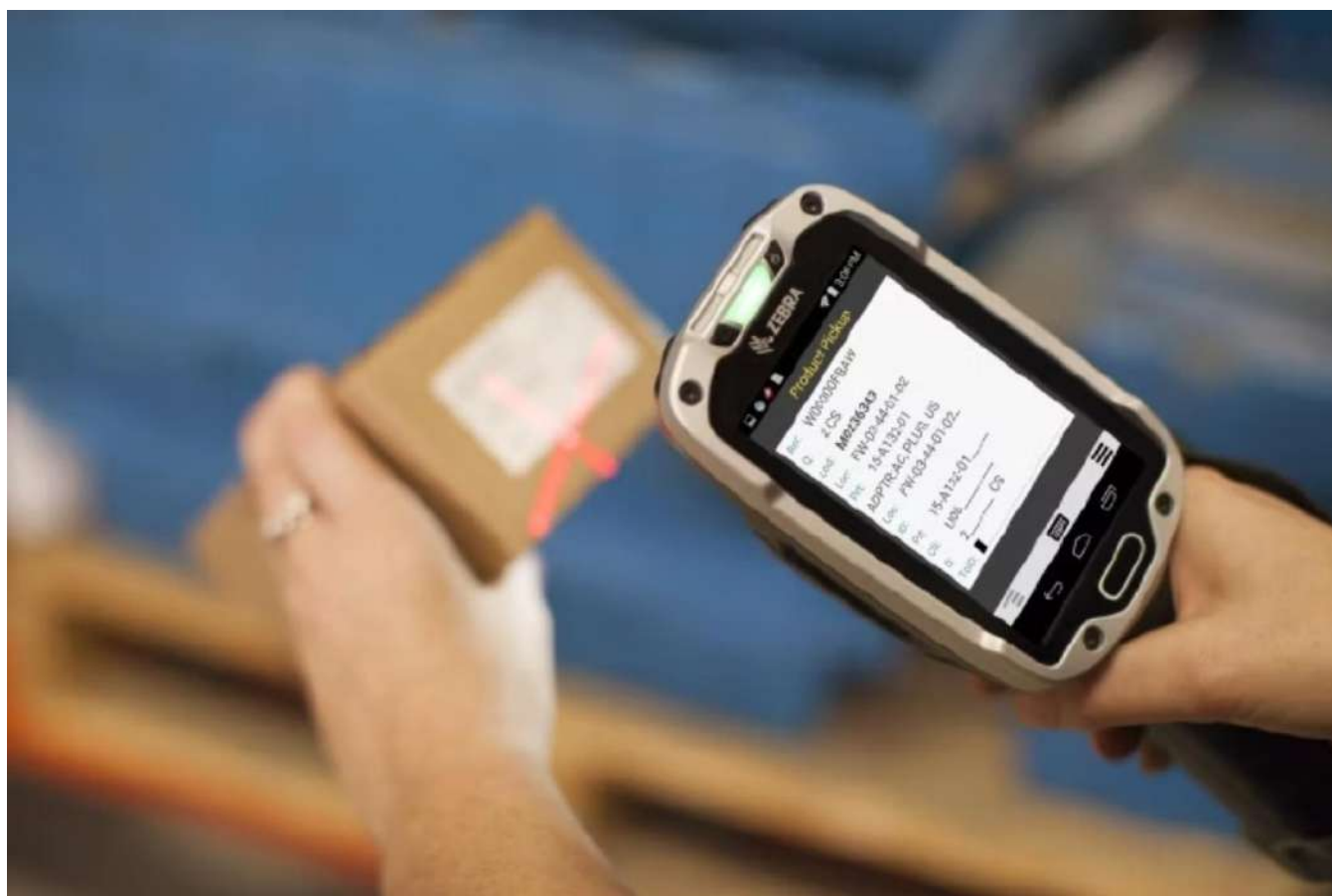


Azure AI Foundry

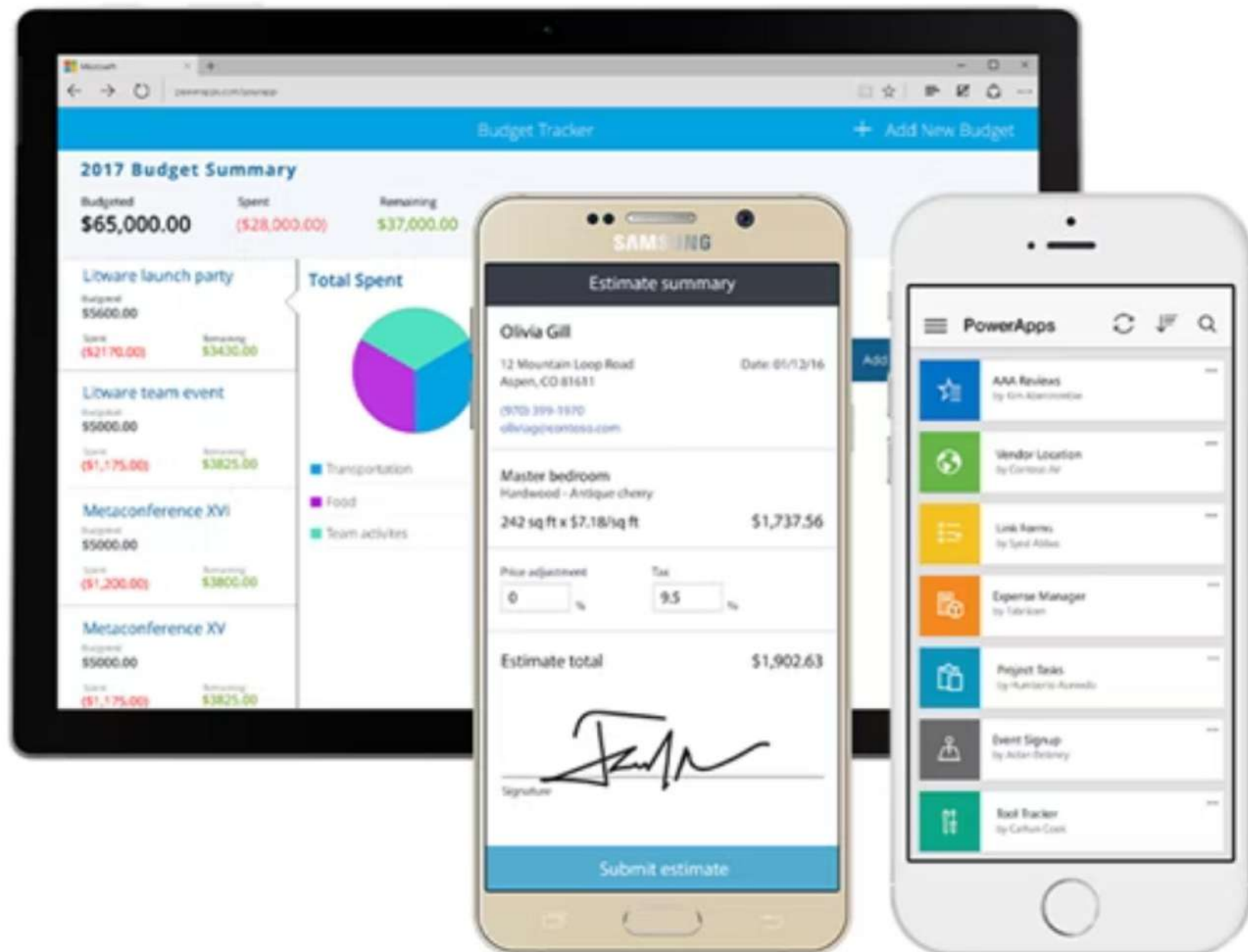


Představte si



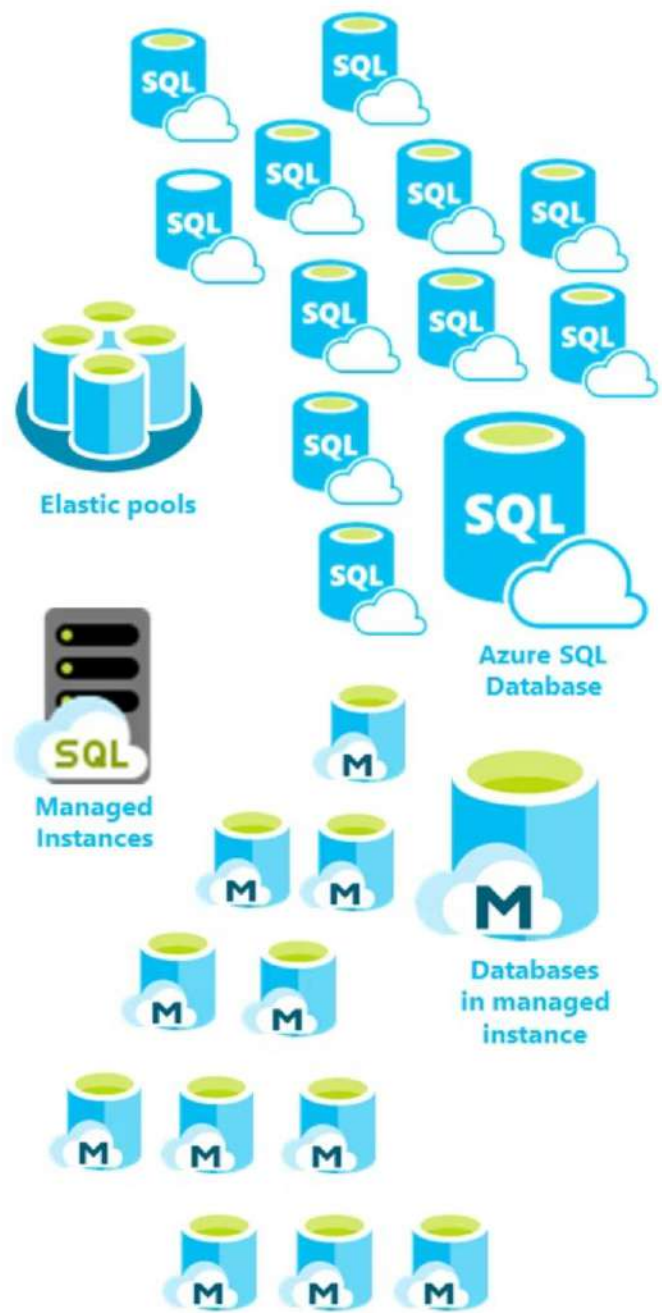


Low-Code Programování





+ New ▾ Edit in grid view Undo Share Export ▾ Forms New Automate ▾ Integrate ▾ ⋮						
Product List ☆						
Title ▾	Code Name ▾	Product L... ▾	Product T... ▾	Color ▾	Notes ▾	+ Add column
Game Controller 3300w	GC33w	Gaming	Gaming accessories	White		
Game Controller 3300b	GC33b	Gaming	Gaming accessories	Black		
Game Controller 3300p	GC33p	Gaming	Gaming accessories	Pink		
Car Audio 1000	CARAud1000	Audio	Car audio	Chrome/Black		
DG-1000 SLR Camera	DG1b	Cameras & Camcorders	SLR camera	Blue		
DG-2000b SLR Camera	DG2b	Cameras & Camcorders	SLR camera	Green		
DG-2000g SLR Camera	DG2g	Cameras & Camcorders	SLR camera	Green		
DG-2000y SLR Camera	DG2y	Cameras & Camcorders	SLR camera	Yellow		
NC320 46" Ultra-Smart TV	NC320-46	Home Theater	Video	Chrome/Black		
NC460 55" Ultra-Smart TV	NC460-55	Home Theater	Video	Chrome/Black		





Sales



Customer
Service



Marketing



Talent



Finance
via Data Integrator



Power Apps

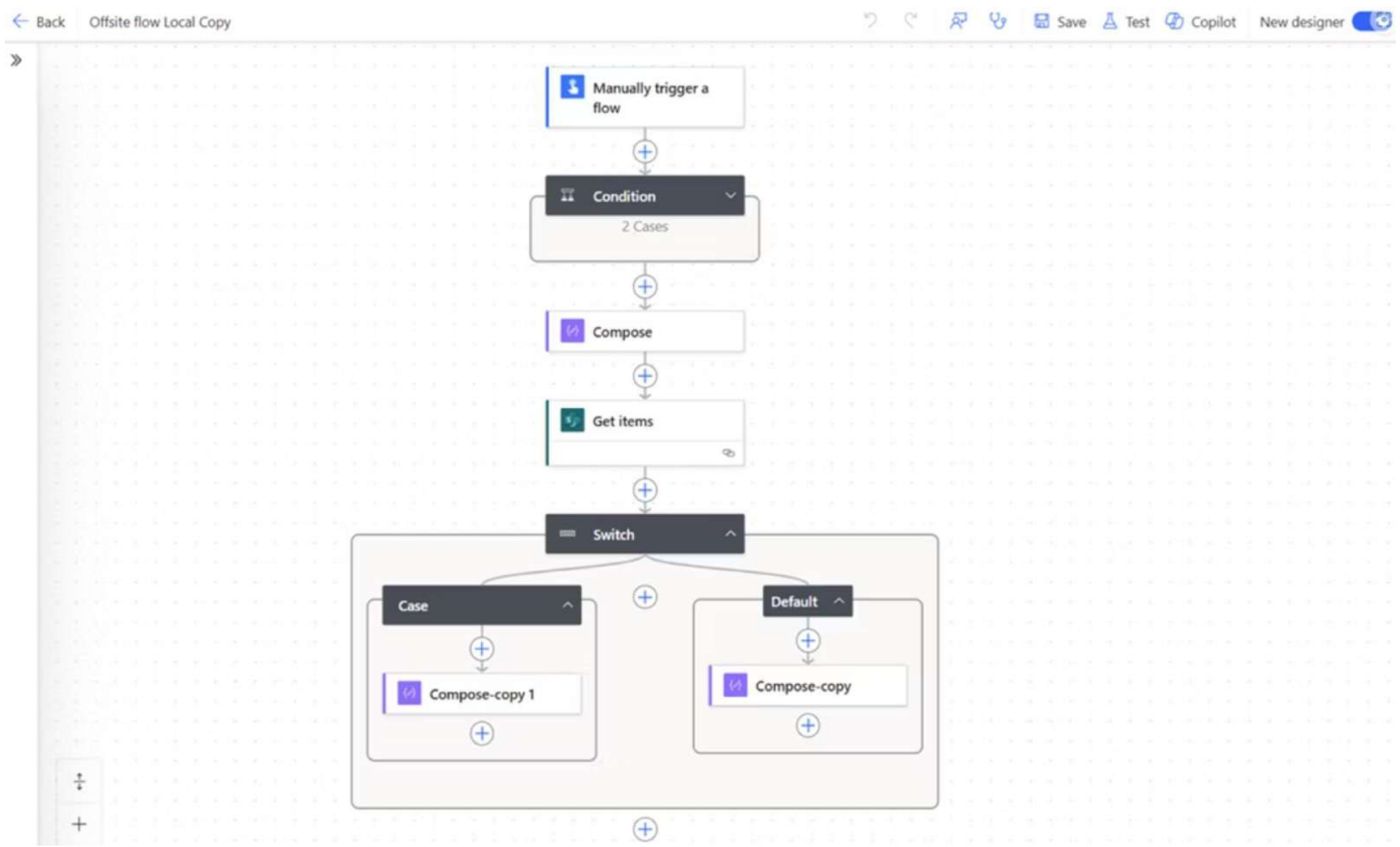


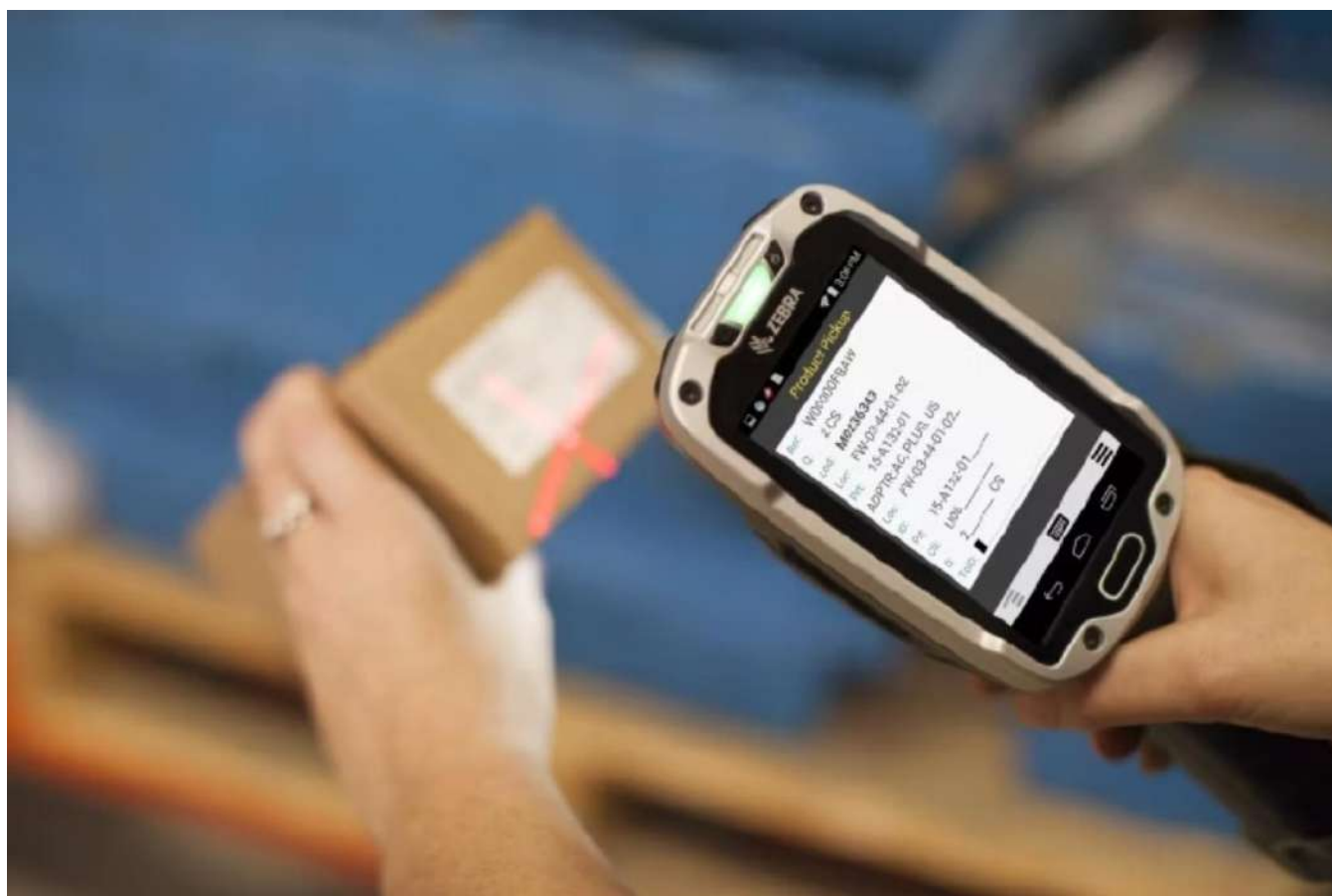
Power BI



Dataverse

Power Automate





Low-Code Programování

+ New

Edit in grid view

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Power BI



Konkrétní využití

Globální chemický výrobce zefektivňuje prodejní procesy pomocí Microsoft Power Platform a AI Builderu.

The image displays four sequential screenshots of the Hexion ScanIt mobile application, demonstrating its workflow for scanning business cards and entering contact details.

- Home Screen:** Features the Hexion logo with the tagline "Responsible Chemistry". The app is titled "ScanIt" with version "1.20 D". A circular icon shows a camera scanning a card. The footer states "Copyright 2020 - Hexion Inc".
- New Scan (Initial):** A screen titled "New Scan" with a close button. It instructs the user: "To begin, tap the 'Scan business card' button, or choose to enter card manually." It features a "Scan business card" button with a camera icon and a "Tap button to scan" label. At the bottom is an "Enter manually" button.
- New Scan (Scanned):** After scanning, the screen shows the captured image of a Hexion business card. It displays "Image Captured: ✓" and "Fields Captured: 13 of 15 possible". A large green "Accept Scan" button is present. The "Enter manually" button remains at the bottom.
- Edit Details:** A screen titled "Edit Details" with a close button. It prompts the user to "Edit fields below to provide as much contact information as possible." and notes "* Required fields remaining". It includes a "Select Contact or Lead" section with "Contact" and "Lead" tabs. Below are input fields for "First Name" (John), "Last Name" (Doe), "Company Name" (Hexion Inc.), and "Email" (noemail@hexion.com). There is also a dropdown for "Address Country Region" and a "Job Title" field. A bottom navigation bar contains a back arrow and four status indicators.



External Sharing Request

Use this form to submit a request for access to external content sharing. This access will allow a user to share documents and folders from OneDrive with external parties.

[Learn More...](#)

Request will be submitted for

Jim



[Change](#)

Approving manager will be

Chad

1. Purpose

Please describe the purpose and need for sharing files externally

2. How many external users will you be sharing with?

Please estimate the number of external people that will be accessing the files

- ☐ 1-5 people
- ☐ 6-20 people



External Sharing Request

Use this form to submit a request for access to external content sharing. This access will allow a user to share documents and folders from OneDrive with external parties.

[Learn More...](#)

Change Routing Information



To change the routing information for this request, use the options below to select the proper recipient.

Requesting external sharing access for:

- ☐ Me
- ☒ Someone else



Clear

Cancel

Ok

1. Purpose

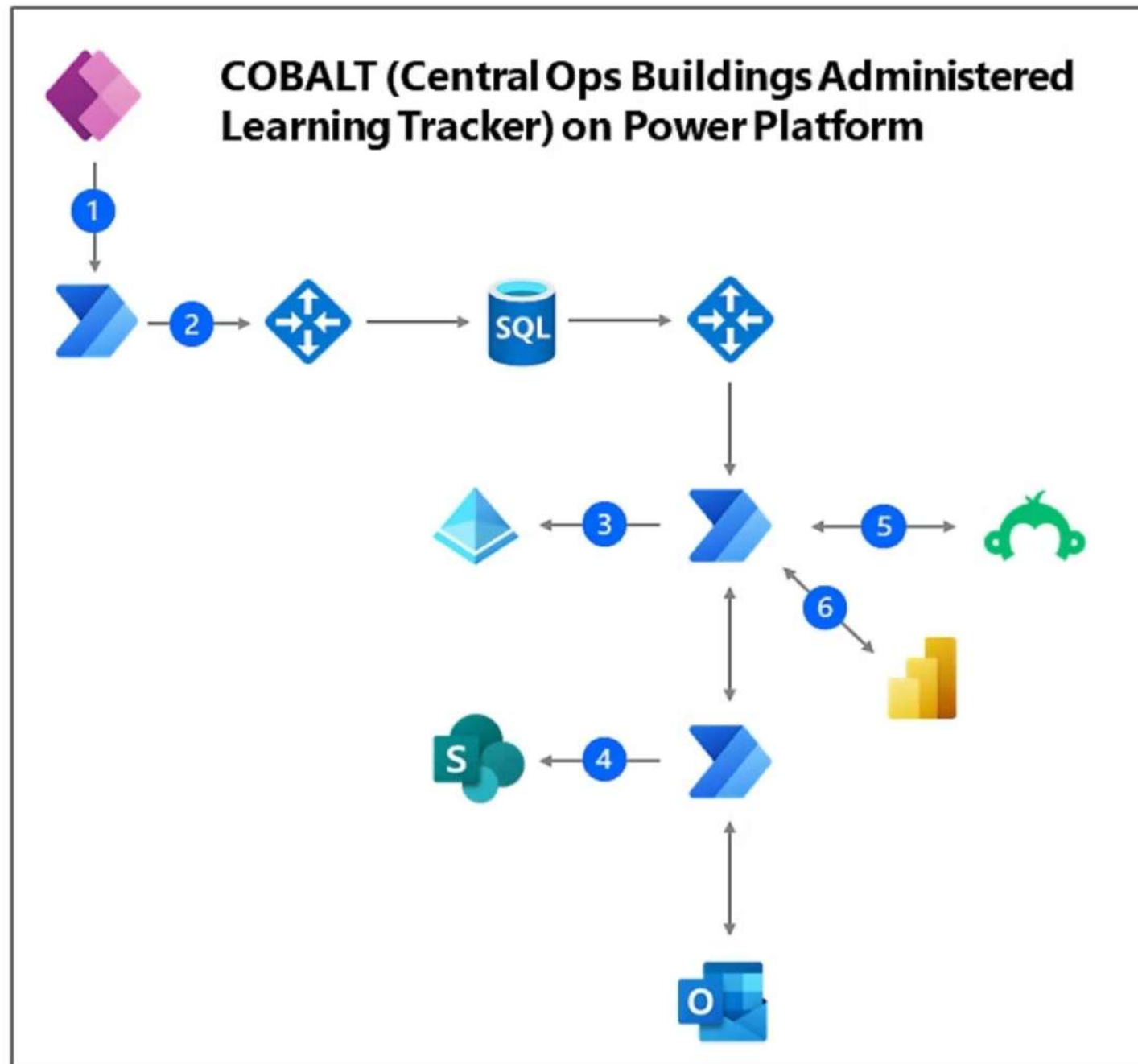
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Johnson Controls překonává očekávání v oblasti podnikového vzdělávání díky škálovatelnému řešení postavenému na Power Platform.



1 Instruktor vytvoří akci, účastníci se registrují (Power Apps).

2 Data proudí do SQL Serveru (brána).

3 Účastníci přidání do Azure AD skupiny.

4 Akce v SharePointu + Outlooku, potvrzení přes e-mail.

5 Sbírá se zpětná vazba (SurveyMonkey).

6 Výsledky a data v Power BI dashboardu.

Event Participants

Business

Course

Participant Name

Event ID

Event Start Date:

Last Change Date:

pWave	Beginning	Ending	Event Status	Graduated	Business	FullName	pEmail	Completion	Dropped	LastChange	pfname	pLName
4.5	8/11/2021	8/11/2021	Planned	NO	SEDU	Christopher Wulfe	Christopher.Wulfe@sedu.com			7/28/2021 1:26:12 PM	Christopher	Wulfe

[illegible]

Central Operations - Buildings - Administered Learning Tracker (COBALT)			
David	MAXPRO NVR & VMS Certified Installer	OK-OklahomaCity	Completed - 07/20/21 - 07/22/21
1177		4 Students	8:00-16:00 (Central)
Allen	CSG	Kansas City*	Planned - 08/23/21 - 09/17/21
1176		0 Students	7:00-15:30 (Central)
Trisha	EDO - Elizabeth	Kansas City*	Planned - 08/23/21 - 09/17/21
1175		0 Students	13:00-21:30 (Central)
Elizabeth	CSG	Kansas City*	Canceled - 07/26/21 - 08/20/21
1174		0 Students	13:00-21:30 (Central)
Trisha	EDO - Adam	Kansas City*	In-Progress - 07/26/21 - 08/20/21
1173		8 Students	7:00-15:30 (Central)
Charles	CSG	Aurora*	Planned - 08/16/21 - 09/10/21
1172		0 Students	12:00-20:30 (Mountain)

*If site has * - hover for more info.
Italics indicates remote/virtual training*

☐ My Events ☒ All (Search) All Events 

Create Event

Search Courses

View All Events

Dashboards

☒ Event ID
 ☐ Start Date
 ☐ End Date
 ☐ Site
 ☐ Course
 Sort Options
 ☐ Ascending
 ☒ Descending

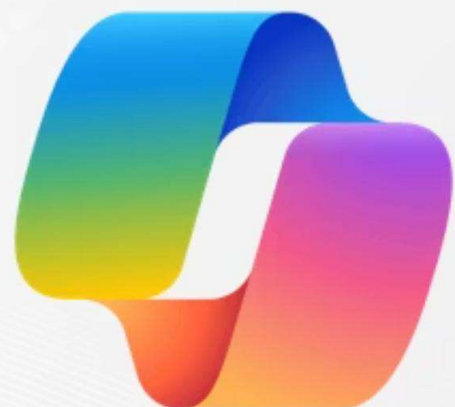
Proč se to vyplatí?

Automatizace – žádné ruční zpracování, nastavení běží automaticky a lze ho dál rozšiřovat.

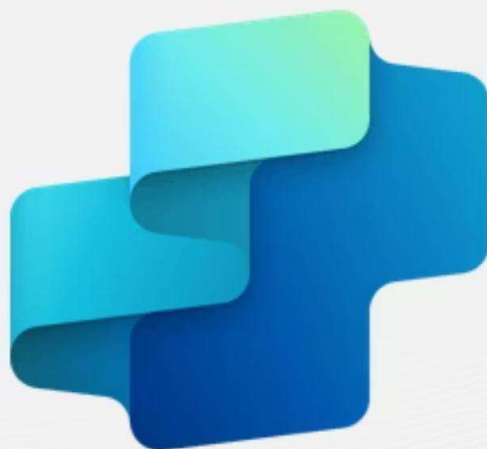
- 1** Jednodušší než čisté programování – složitější než papír/Excel, ale mnohem snazší než klasický vývoj.
- 2** AI asistence – kód se dá generovat pomocí AI („vibe-coding“).
- 3** Bezpečnost a ekosystém – Microsoft prostředí = vyřešené zabezpečení a integrace.
- 4** Rychlost a cena – vývoj i 4× rychlejší, levnější, často i zdarma v rámci firemních účtů.

AI automatizace

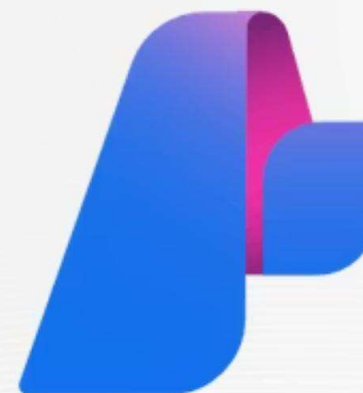
Copilot (M365)



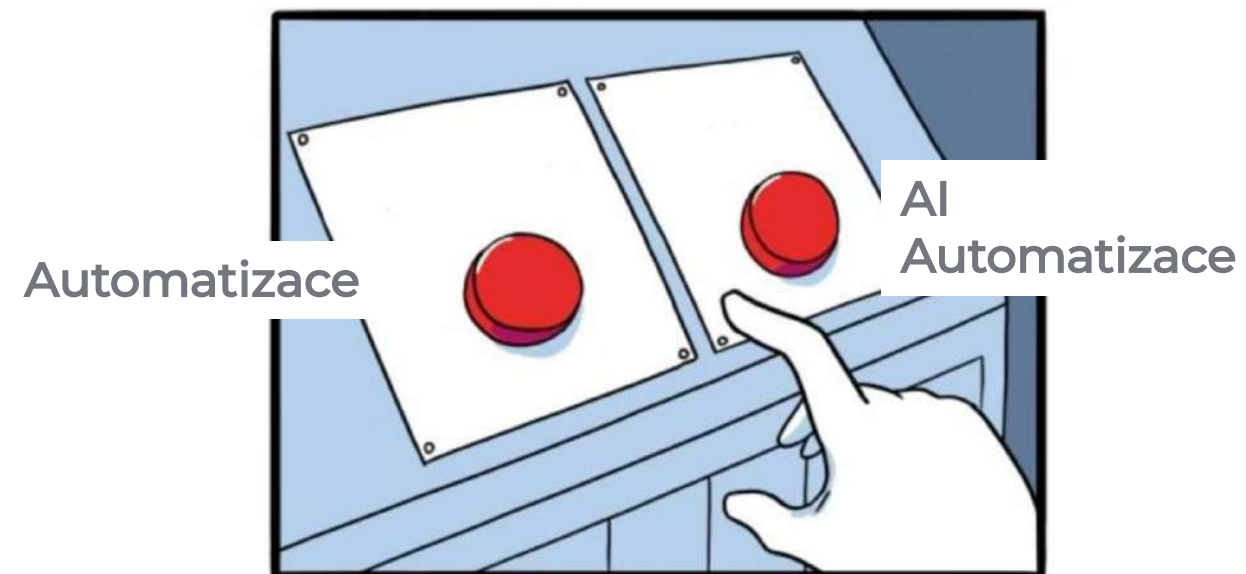
Copilot Studio



Azure AI Foundry



Kdy použít Automatizaci a kdy AI automatizaci?



IoT analytics



April 2025



Enterprise generative AI application landscape

Mapping 530 real world projects across 68 common business activities

XX% = Share of GenAI projects that support the respective activity

Supporting activities	IT/technology	Software develop.* 15%	IT support 8%	Cybersecurity 5%	Network mgmt. 2%	
	R&D	Product design 8%	Prototyping 8%	Feasibility studies 8%	Collaboration 2%	IP management -
	Legal/compliance	Regulatory compl.* 5%	Contract drafting 3%	Risk assessment 2%	Litigation mgmt. <1%	IP protection <1%
	Human resources	Recruitment 3%	Onboarding 3%	Engagement 3%	Training 2%	Performance mgmt. 2%
	Corporate strategy	Growth planning 3%	Competitive analysis 2%	Market expansion 1%	Partnership develop.<1%	M&A -
	Finance/account.*	Financial reporting 3%	Accounts mgmt. <1%	Tax compliance <1%	Payroll <1%	Budgeting -
	Procurement	Sourcing <1%	Supplier relationship<1%	Contract negotiation<1%	Supplier selection -	Purchase processing -
	Facility mgmt.*	Safety management <1%	Energy management<1%	Building maintenance -	Security systems -	Space planning -

Primary activities	Supply Chain	Operations/Mfg.*	Marketing	Sales	Customer support	Maintenance/FS*
	Demand forecasting 2%	Process optimization 11%	Content creation 17%	Lead generation 3%	Issue resolution 35%	Inspections <1%
	Order fulfillment 2%	Resource planning <1%	Digital marketing 7%	Account management 2%	Inquiry handling 34%	Preventive maintenance <1%
	Inventory management <1%	Quality control <1%	Market research 6%	Negotiation <1%	Post-sale support 19%	Word order management <1%
	Transportation management <1%	Production scheduling <1%	Campaign planning 4%	Pipeline management <1%	Feedback collection 7%	Reporting <1%
	Warehouse management -		Marketing analytics 3%	Forecasting <1%	SLA management <1%	Asset management -

* Account. = Accounting, Mgmt. = Management, develop. = Development, Comp. = Compliance, Mfg. = Manufacturing, FS = Field Service. Source: IoT Analytics Research - Generative AI Market Report 2025-2030. List of Generative AI Projects 2025. We welcome republishing of images but ask for source citation with a

Low

Adoption level

High

IoT česky

Řešení problémů v zákaznické podpoře (35 %) – chatboti, automatizace odpovědí, rychlejší vyřízení požadavků.

Zpracování dotazů zákazníků (34 %) – AI pomáhá třídit a odpovídat na velký objem požadavků.

Podpora po prodeji (19 %) – návody, doporučení, personalizovaná péče.

Tvorba obsahu v marketingu (17 %) – texty, kampaně, grafika, personalizace sdělení.

Vývoj softwaru (15 %) – generování kódu, testování, zrychlení vývoje.

Optimalizace procesů ve výrobě (11 %) – plánování výroby, automatizace kroků.

Sbírání zpětné vazby (7 %) – analýza zákaznických reakcí a sentimentu.

Design produktů a studie proveditelnosti (8 %) – návrhy, prototypy, R&D podpora

Copilot

M365 Copilot

Hledat

Chat

Agenti

Výzkumník

Analytik

Kontrolor výdajů

Plánovač

Kontrolor výdajů

Všichni agenti

Vytvořit agenta

Konverzace

Pages

Poznámkové bloky

Vytvořit

Aplikace

PráceWeb

GPT-5 Vypnout

Dobrý den, Jan, můžu vám pomoci s rekapitulacemi a přípravou na schůzky.

Používáte Copilot s funkcí GPT-5. [Přečtěte si další informace.](#)

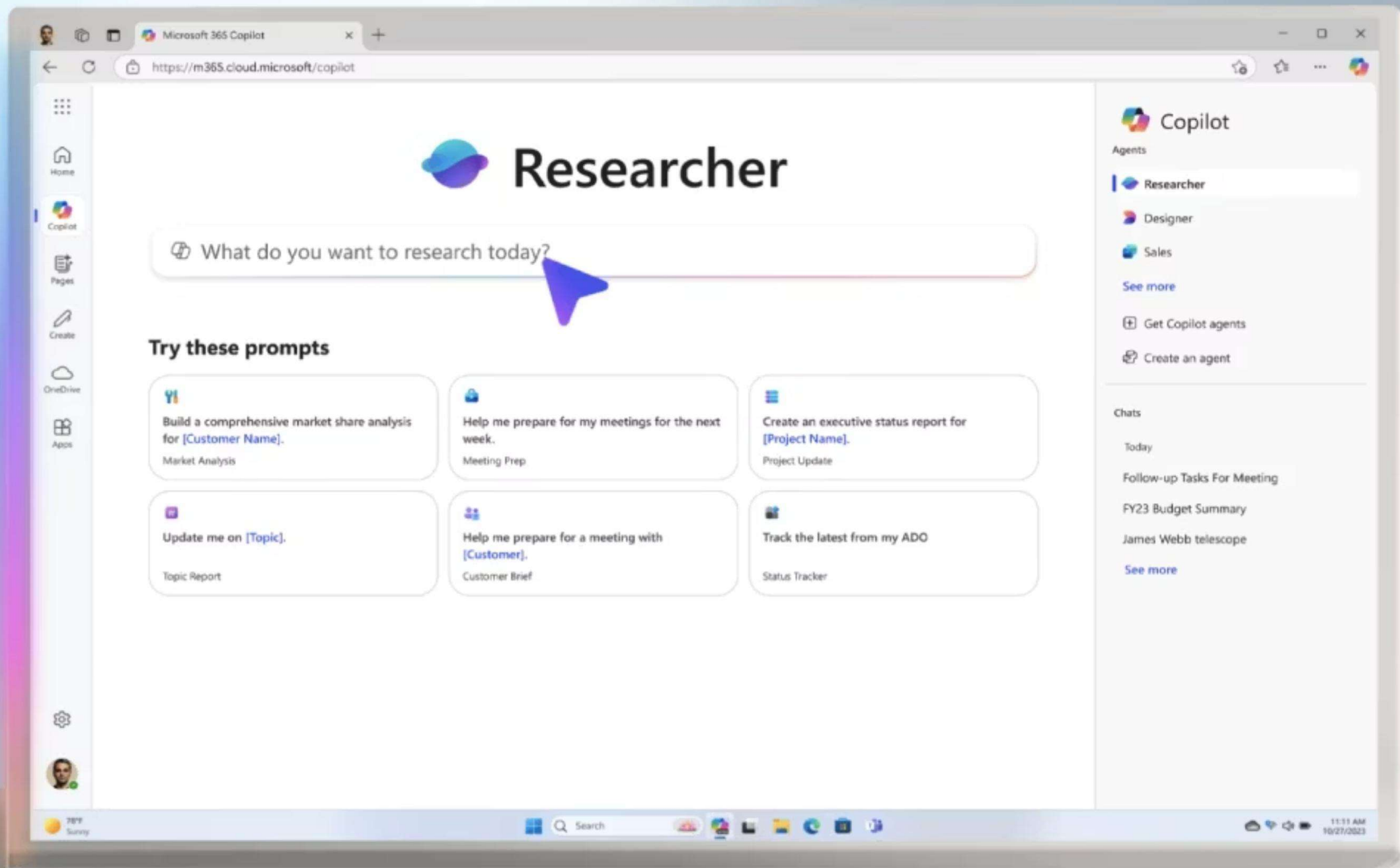
Poslat zprávu Copilotu

Shrň zprávy od nadřízeného za posledních 48 hodin.

Shrň zprávy v Teams z tohoto týdne, ve kterých mě někdo...

Kdy mám další schůzku s **jméno osoby?**

Zobrazit více



Copilot Studio

⋮

Copilot Studio

Environment trail

⚙️ ? MG

Home

Create

Agents

Library

⋮

🗨️

Sales Copilot Power Virtual Agents Bot

Overview Knowledge Topics Actions Activity Analytics Channel: Published 1/8/2025

Publish Settings ⋮

Test

Untitled ▾

Copilot

Comments

Variables

Topic checker

Details

⋮

More

Save

Test your agent

↶ ▾ | ✂️ 📄 🗑️

Phrases

📄 Edit

Phrases

show time

⋮

Paste

Send a message

Ask a question

Ask with adaptive card

Add a condition

Variable management >

Topic management >

Call an action >

Advanced >

← Select an action

✕

Basic actions Connector (preview) Plugin (preview)

🔍 Search

🔗 Create a flow

Launches Microsoft Flow

🔗 Create a prompt

Create an action using Natural Language

🔗 Skill or Skill action

Go to Skills to add a skill to your agent

🔗 The current time and date

Updated

View details

🔗 Current time an date

Updated

🔗 Search Dynamics 365 knowledge article flow

(Disabled)

Muthu,

come to Copilot. Select one of the

gestions below to get started.

Get info

Get latest news for accounts

Ask questions

What's newly assigned to me

Stay ahead

Prepare for sales meetings

Use "View Prompts" for more suggestions.

ago

a question or describe what you need

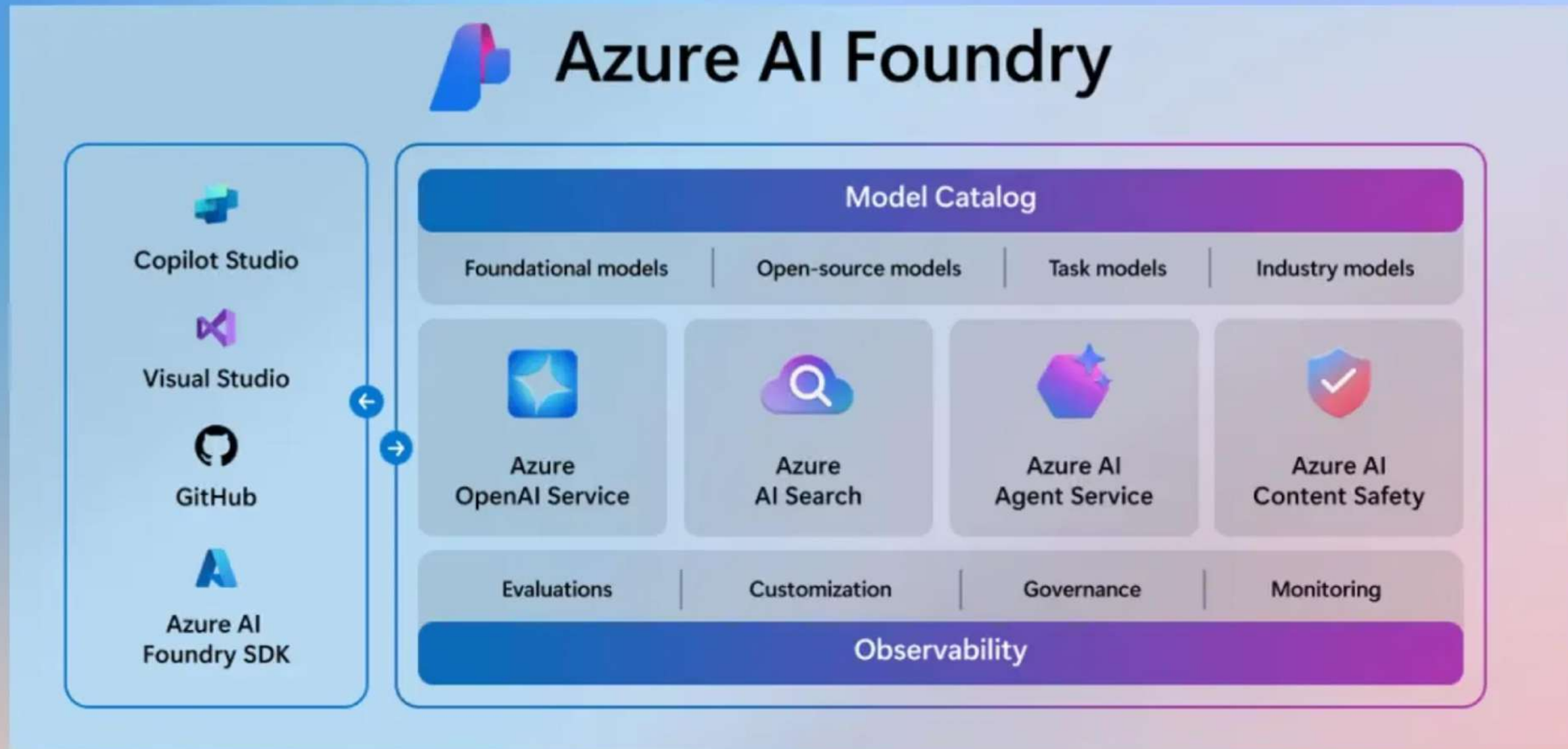
📎 ▶️

are AI-generated content is accurate and appropriate

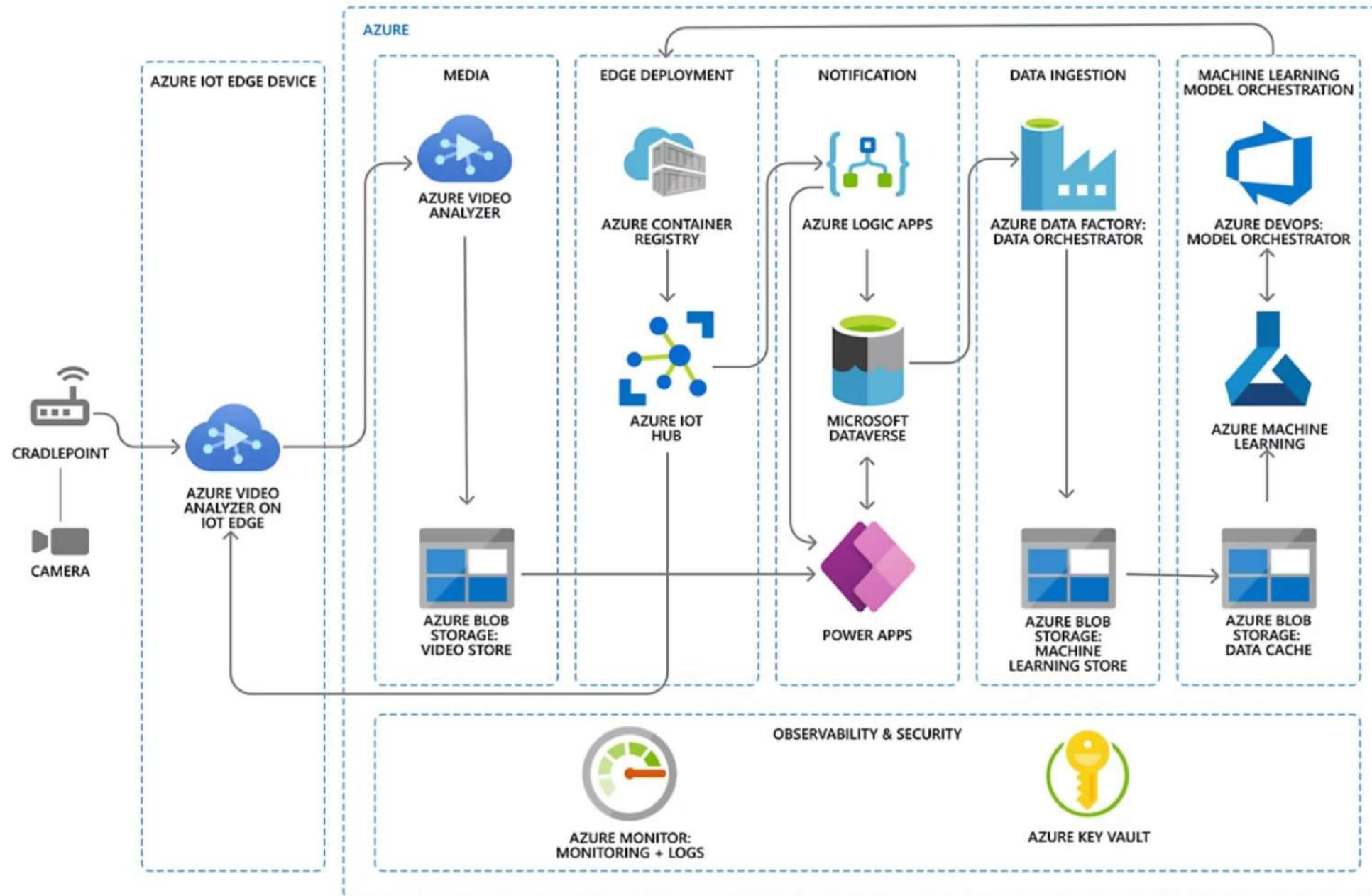
using. [See terms](#)

Siemens propojuje pracovníky v první linii a inženýry pro řešení problémů v reálném čase s využitím Azure AI.

Azure AI Foundry



Dow využívá vision AI na okraji sítě k posílení bezpečnosti a ochrany zaměstnanců pomocí Azure.



Reálné udržitelnostní projekty s Azure IoT

Azure IoT + analytika + AI pomáhají snižovat spotřebu energie, odpad a náklady, a zároveň zvyšují provozní efektivitu.

Celanese (chemie): Azure (Cognite), AKS + Azure Functions + Data Lake + Azure ML → milionové úspory, lepší energetická účinnost ve 30 provozech.

Watts (chytré domácnosti): Aplikace pro sledování spotřeby

SGS (větrné turbíny): OCM-Online na IoT Edge + IoT Hub sleduje stav oleje (17+ parametrů) u 315+ turbín, mění olej jen, když je to nutné, nasazeno ve velkém offshore parku (2,4 mil. domácností).

Poslední slova na závěr