



POWER UP!

A composite image featuring a woman with short blonde hair speaking into a microphone, a man gesturing while speaking, and two men looking at a laptop screen.

WELCOME
TO

VIENNA 2025

JOIN THE
CONVERSATION

....
#EPPC25



Advanced Platform Automation: When Power Automate Is Not Enough

George Doubinski & Mats Necker

Are happy to be in Vienna!

WELCOME!



George Doubinski



- 📍 Sydney, Australia
- 🎉 Power Platform & Azure
- 🏗 Build products, runs, & talks
- 🌈 Rejected by ColorCloud

Mats Necker



- 📍 Hamburg, Germany
- 🎉 Focus PP & Azure & CRM
- 🏗 Build products & freelances
- 🌈 Organizes ColorCloud

Agenda / Timetable

09:00 – 09:20 Welcome & Introduction 

09:20 – 10:30 Lab 1: Custom Connectors

10:30 – 10:45 Break 

10:45 – 12:00 Lab 2: Azure Functions & Dataverse Integration

12:00 – 13:30 Lunch  

13:30 – 15:15 Lab 3: Logic Apps & Custom Code

15:15 – 15:30 Break 

15:00 – 16:30 Lab 4: Azure Data Factory

16:30 – 17:00 Q&A & Closing Up

Let's go!



POV

The
moment we
came up
with this
session



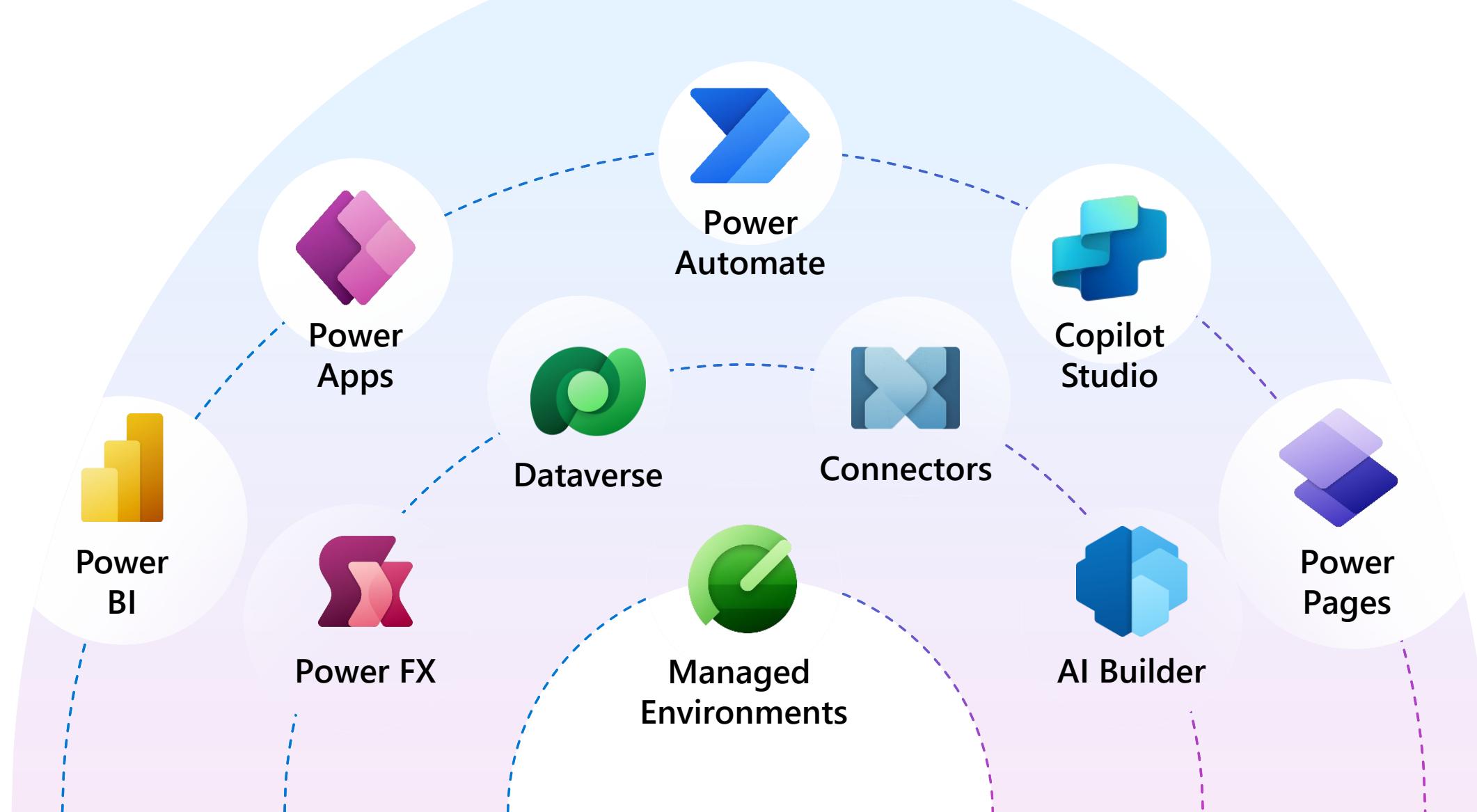
If you only have
a hammer...

..aka if you use
Power Automate
for
EVERYTHING



Microsoft Power Platform

AI-Enabled Low-Code Platform



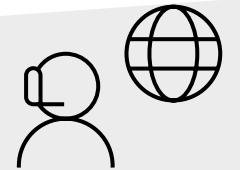
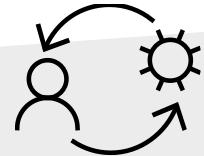
A platform for every type of maker



Simple



CITIZEN DEV



PRO DEV



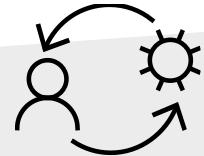
A platform for every type of maker



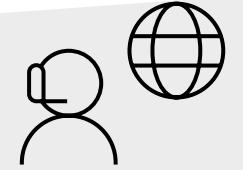
Simple



CITIZEN DEV



Complex

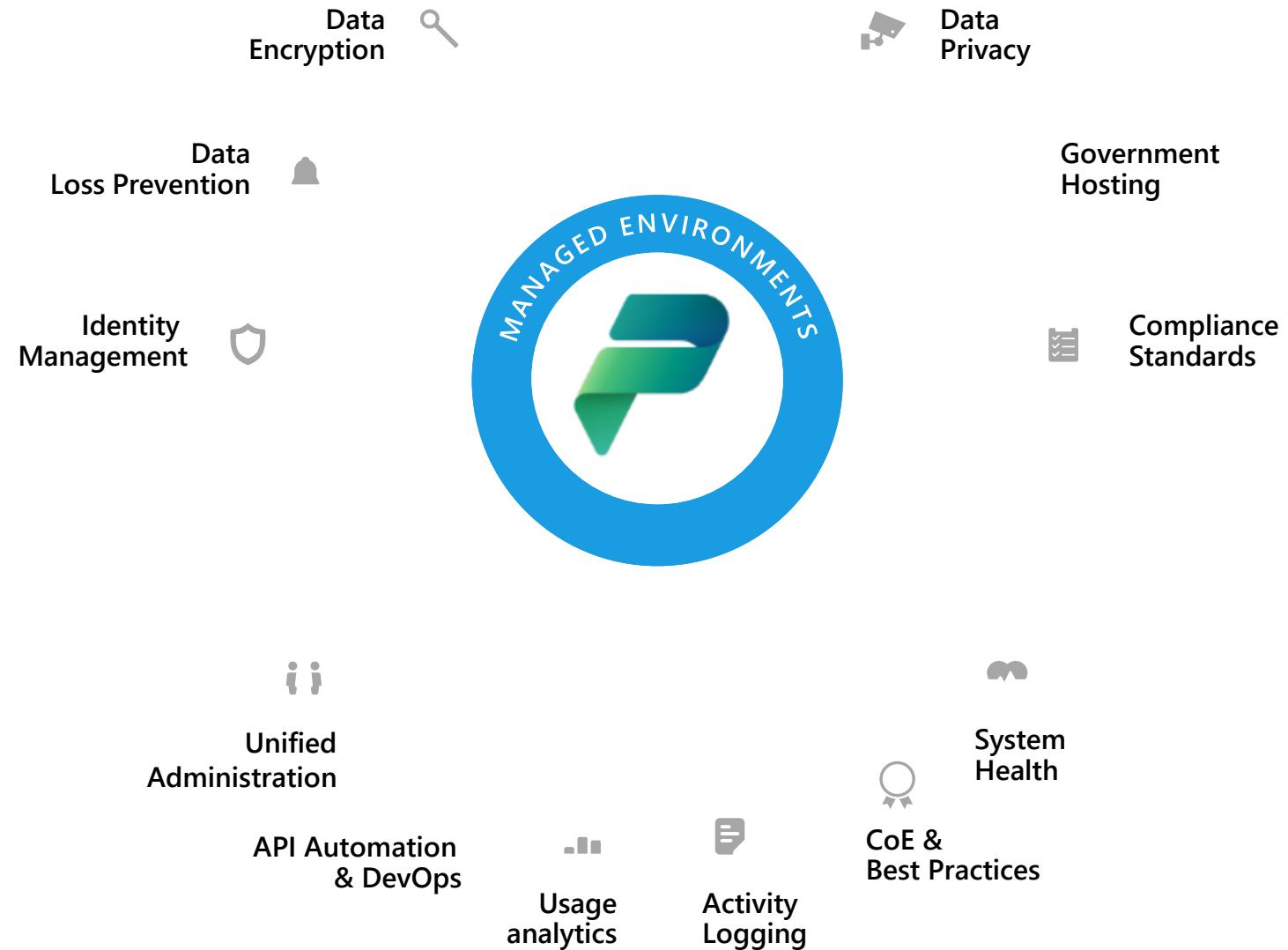


PRO DEV



Power Platform
offers unmatched governance and security controls at scale today

offers ≠ enforces



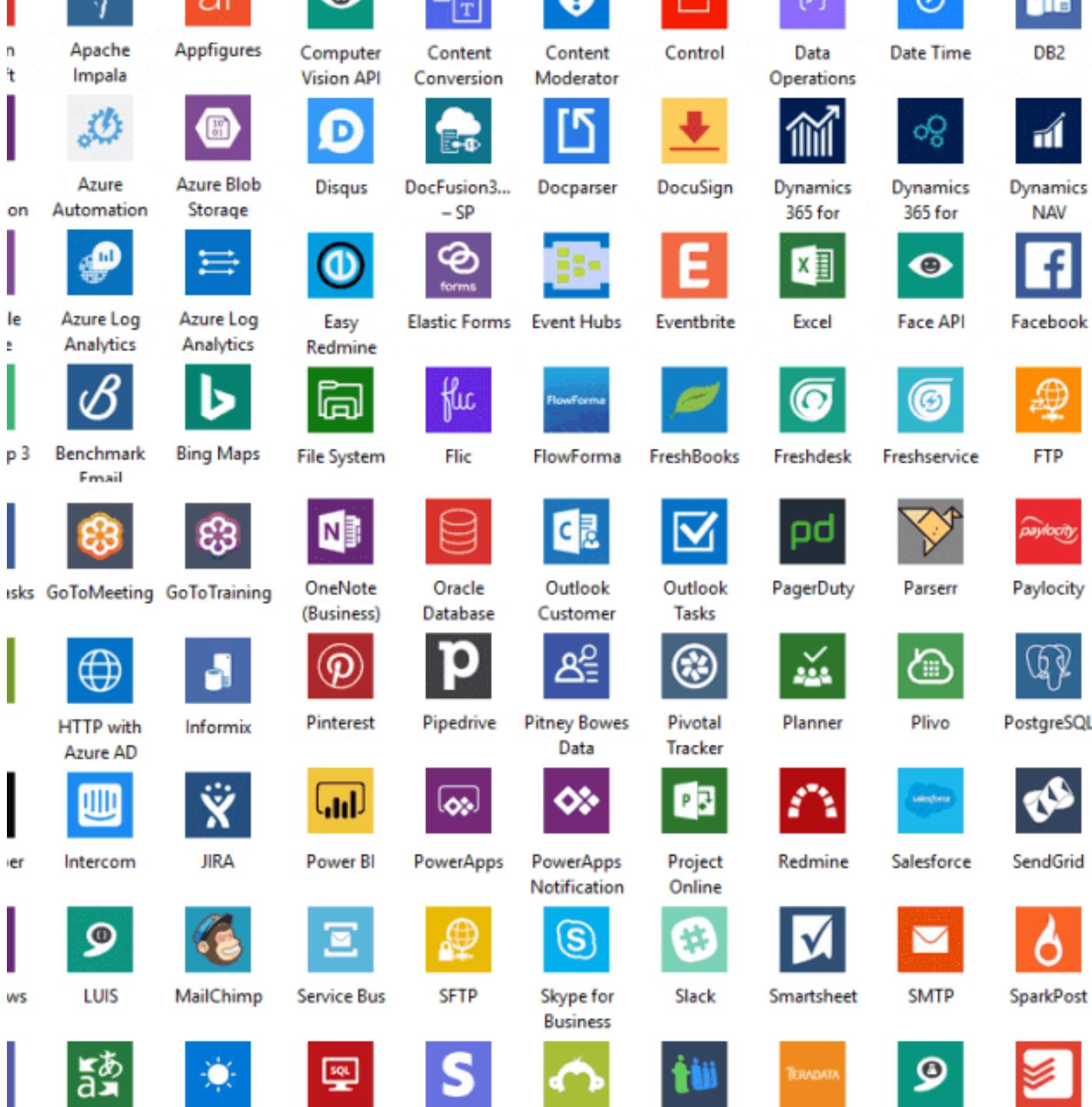


Connections

🔌 Connections

📈 Over 1600

Not all are the same –
different kinds of how to
connect



Managed Identities

are better than

Service Principals / App. Users

are better than

Service Accounts

are better than

User / Names Accounts

(User) Connections

Premium flows without premium licenses	14 days	Flows that were created with premium features (premium connectors, custom connectors, HTTP connectors, on-premises gateway, and business process flows) but don't have a premium Power Automate license will be turned off after 14 days. This situation happens if the original owner leaves the organization, or if they have an expired trial or premium license. The flow owner and co-owners will get an email when the trial or premium license expires, or when the owner isn't found in Microsoft Entra ID (Microsoft Entra ID). The flow will continue to work for 14 days. If a premium license isn't assigned to the flow within 14 days, the flow is automatically turned off, and the owner and co-owners are notified through email. Newly created or edited premium flows without a premium license are saved but turned off. Once a premium Power Automate license is assigned to the owner or flow, you can turn on the flow. Admins can find these flows . Assign a Power Automate Process license or a per-user license to the owner to keep the flow running.
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Performance and limits

Limits of the platform

Learn / Power Platform / Power Automate /



Limits of automated, scheduled, and instant flows

Article • 09/04/2024 • 26 contributors

Feedback

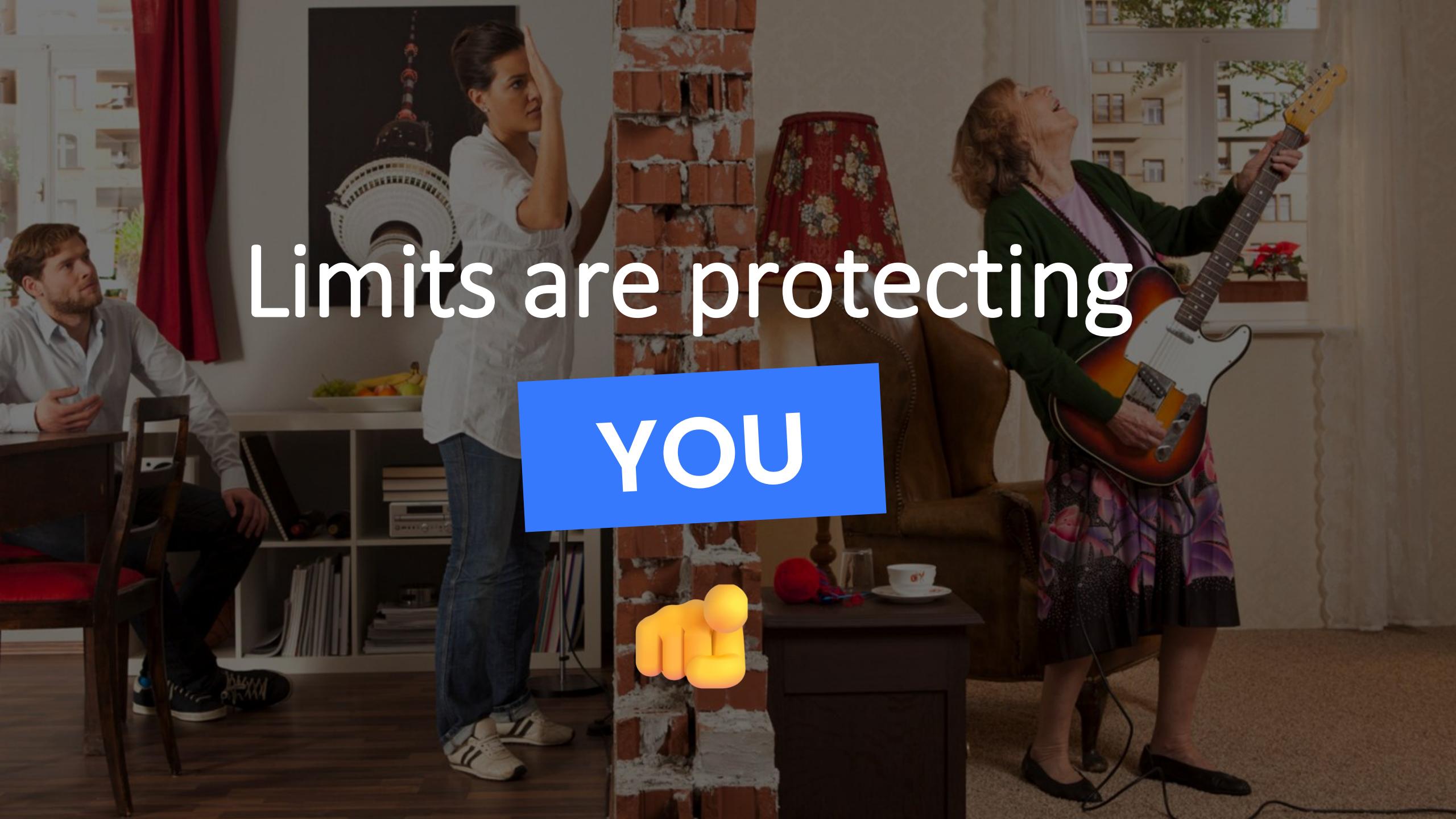
In this article

- [Performance profiles](#)
 - [Flow definition limits](#)
 - [My flows limit](#)
 - [Duration and retention limits](#)
 - [Concurrency, looping, and debatching limits](#)
 - [Throughput limits](#)
 - [Gateway limits](#)
 - [Request limits](#)
 - [Turn off or delete flows](#)
 - [Custom connector limits](#)
 - [SharePoint limits](#)
 - [IP addresses](#)
 - [Allowlist of namespaces endpoints required for runtime](#)
 - [Other configuration details](#)
 - [Flow suspension because of runtime limits](#)
- [Show less](#)

https://learn.microsoft.com/en-us/power-automate/limits-and-config

What limits
can feel
like..



A woman in a white shirt and jeans stands in a living room, covering her ears with her hands. A man sits on a chair to her left, looking up at a brick wall that has been partially demolished. A woman in a green cardigan and floral skirt stands to the right, playing a guitar. A blue rectangular overlay contains the text.

Limits are protecting

YOU





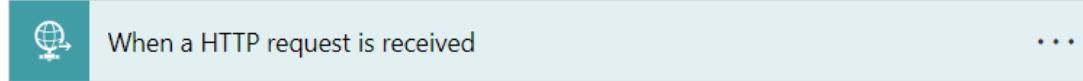
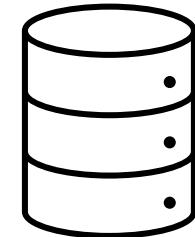
Overload by external source

Limits

Transform, finds
& update record



Triggers on
changed record



External System

Performance & Limits

Limits

**Guaranteed performance
within limits to protect from
„Noisey Neighbors”**

**Performance and limits
depending on license(s)**

Products	Requests per paid license per 24 hours
Paid licensed users for Power Platform (excludes Power Apps per App, Power Automate per flow, and Microsoft Copilot Studio) and Dynamics 365 excluding Dynamics 365 Team Member ¹	40,000
Power Apps pay-as-you-go plan ² , and paid licensed users for Power Apps per app, Microsoft 365 apps with Power Platform access, and Dynamics 365 Team Member ²	6,000
Power Automate per flow plan ³ , Microsoft Copilot Studio base offer, and Microsoft Copilot Studio add-on pack ⁴	250,000
Paid Power Apps Portals login	200

Performance profiles

A flow's *performance profile* determines its Power Platform request limits. The following table describes the plans that are associated with each of the four performance profiles.

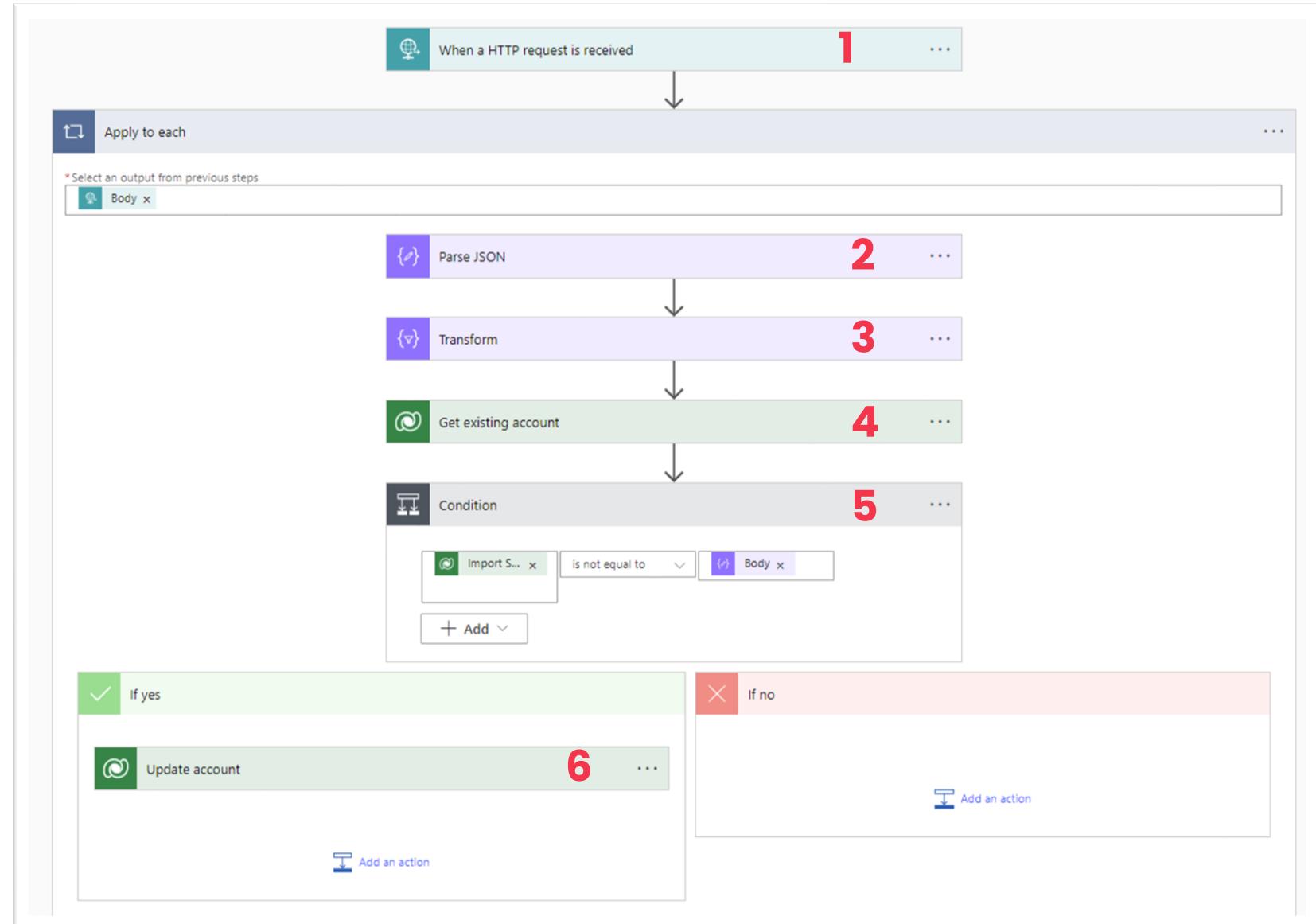
To learn more about how Power Automate consumes Power Platform requests, go to [Types of Power Automate licenses - Power Platform requests](#).

[Expand table](#)

Performance profile	Plans
Low	<ul style="list-style-type: none">- Free- Microsoft 365 plans- Power Apps Plan 1, Per App plans- Power Automate Plan 1- All license trials- Dynamics 365 Team Member- Microsoft Power Apps for Developer
Medium	<ul style="list-style-type: none">- Power Apps triggered flows, manual flows, child flows, Power Apps Plan 2, Power Apps per user plan- Power Automate Plan 2, Power Automate Premium (previously Power Automate per user), Power Automate Premium plans (previously Power Automate per user with Attended RPA plans)- Dynamics 365 Enterprise plans, Dynamics 365 Professional plans- Dynamics 365 non-licensed users, application users, users with special free licenses
High	<ul style="list-style-type: none">- Power Automate Process plan, Power Automate per flow plan
Unlimited Extended	<ul style="list-style-type: none">- Pay-as-you-go flows, Dynamics in context flows running under service principal

💀 Overload by external source

# Records	# Request
1	6
100	501
10.000	50.001
100.000	500.001
1.000.000	5.000.001





ERP updated all 1,5M records in one day..

- Flows were heavily throttled
- Lots of Flows „waiting“
- A lot of http request returned an error (which ones!?)
- Took a week to clean up

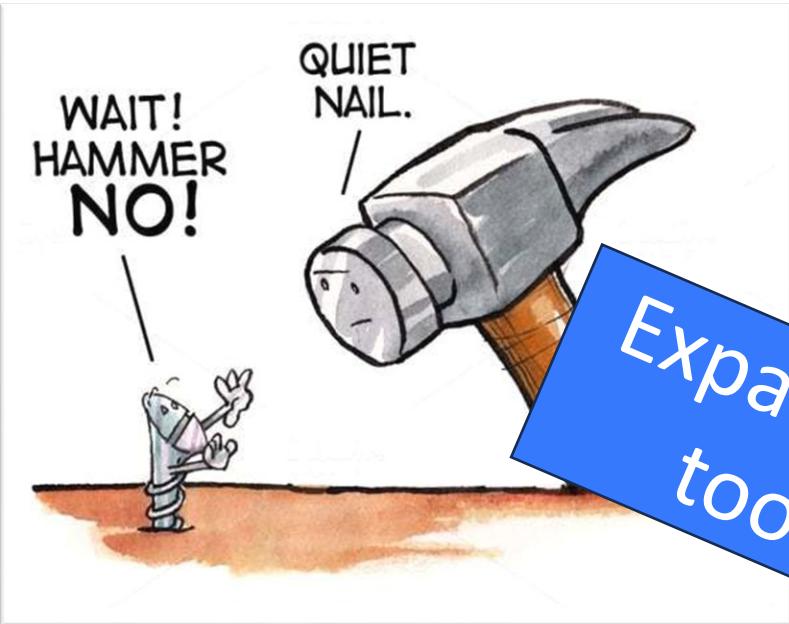


Did I use the
right tool
here!?

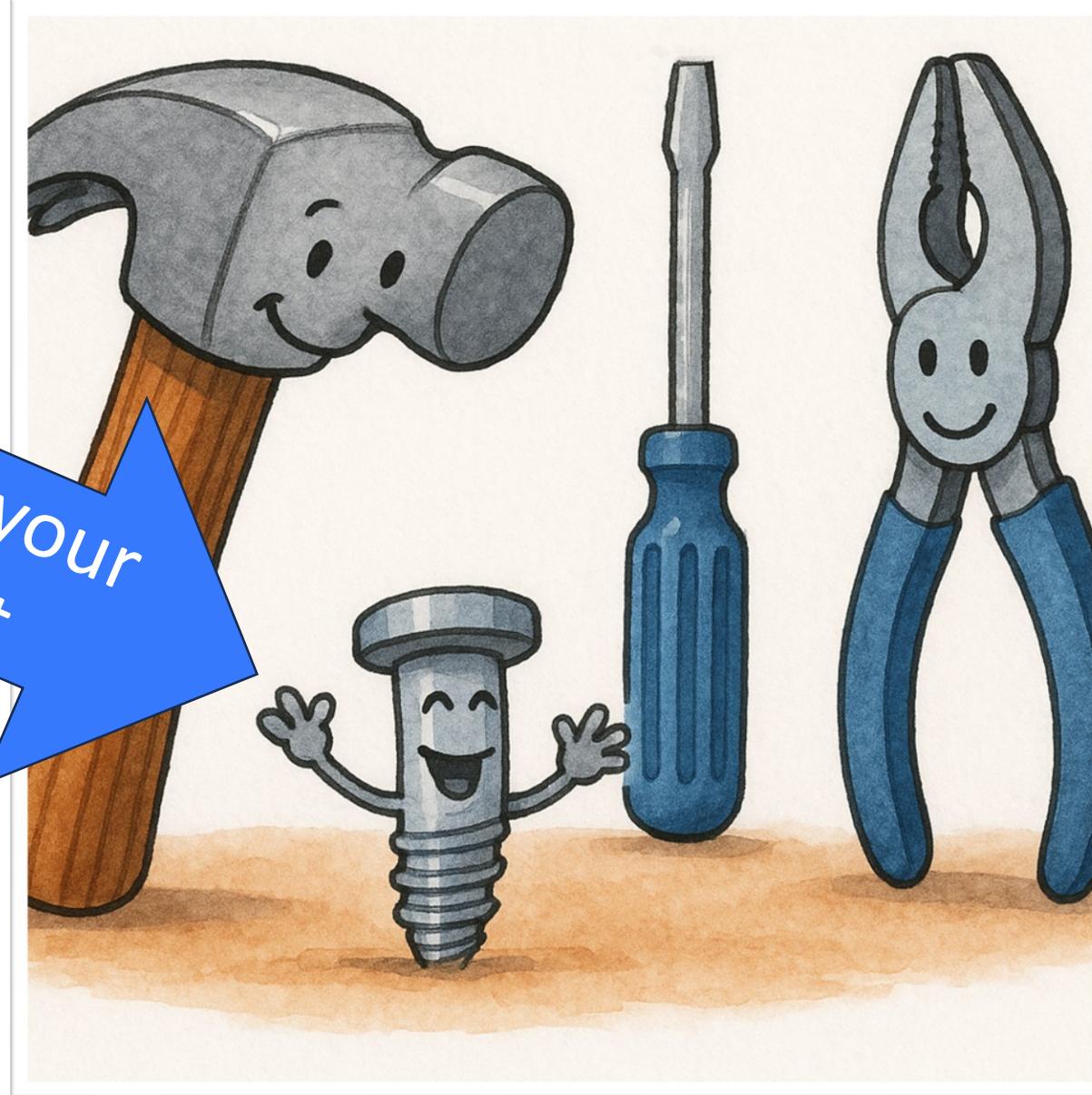


Goal of this workshop





*Expand your
toolset*



HOW LONG CAN YOU WORK ON MAKING A ROUTINE TASK MORE
EFFICIENT BEFORE YOU'RE SPENDING MORE TIME THAN YOU SAVE?
(ACROSS FIVE YEARS)

		HOW OFTEN YOU DO THE TASK					
		50/DAY	5/DAY	DAILY	WEEKLY	MONTHLY	YEARLY
HOW MUCH TIME YOU SHAVE OFF	1 SECOND	1 DAY	2 HOURS	30 MINUTES	4 MINUTES	1 MINUTE	5 SECONDS
	5 SECONDS	5 DAYS	12 HOURS	2 HOURS	21 MINUTES	5 MINUTES	25 SECONDS
	30 SECONDS	4 WEEKS	3 DAYS	12 HOURS	2 HOURS	30 MINUTES	2 MINUTES
	1 MINUTE	8 WEEKS	6 DAYS	1 DAY	4 HOURS	1 HOUR	5 MINUTES
	5 MINUTES	9 MONTHS	4 WEEKS	6 DAYS	21 HOURS	5 HOURS	25 MINUTES
	30 MINUTES	6 MONTHS	5 WEEKS	5 DAYS	1 DAY	2 HOURS	
	1 HOUR	10 MONTHS	2 MONTHS	10 DAYS	2 DAYS	5 HOURS	
	6 HOURS			2 MONTHS	2 WEEKS	1 DAY	
	1 DAY				8 WEEKS	5 DAYS	

Alternative Tools

Manual labour, good old Excel, XrmToolbox

Custom connectors

Logic Apps

Azure Functions

Low-code and pro-code plug-ins

Dataflows

Azure Data Factory

3rd Party Tools

Did we miss anything? AI (lol)?

Click to edit Master title style

Power Automate



Logic App



Classic Workflow / BR



Azure Function



Azure Data Factory



Dataflows



Manual tools / Excel



n8n (and other tools)



The Lab Material

mnecker / workshop-advanced-power-platform-automation Public

Code Issues Pull requests Actions Projects Security Insights

main 2 Branches 0 Tags

Mats Necker and Mats Necker initial structure with examples 8d819f1 · 4 days ago 2 Commits

labs initial structure with examples 4 days ago

README.md initial structure with examples 4 days ago

README

Advanced Platform Automation: When Power Automate Is Not Enough 🚀

A one-day workshop for developers and advanced makers working with the Power Platform and Azure. This hands-on session will guide you through the full suite of automation options available, so you can make informed decisions about what to use, and how to optimise any automation or application.

<https://github.com/mnecker/workshop-advanced-power-platform-automation>



Student Environment

- User: devN@wpaine.onmicrosoft.com
-  : hello42@EPPC
- Resource group: rgdevN
- SQL Server: wpaine.database.windows.net
- User: reader
-  : hello42@EPPC