Expert Summit 2023

All about Microsoft® technologies ONLINE

Konrad Sagala

Monitorowanie i ochrona Power Platform z użyciem narzędzi Microsoft

Sala B

Godz. 11:30

lingaro · bec FINANCIAL TECHNOLOGIES · vsoft · eficode · Demant · Trek2Summit · DS STREAM BIG DATA SOLUTIONS · kursySQL.pl · spark-it

- **Cloud Security Architect - Azure**
- **Microsoft Certified Trainer**
- **Microsoft MVP since 2007 – M365 Apps & Services**
- **Twitter - @sagus**
- **LinkedIn - @konradsagala**
- **Github - https://github.com/ksagala**
- **Blog – https://pepugmaster.blogspot.com**
- **Hobby - Śpiew, Taniec, Podróże**

Agenda

- Problemy
- CoE
- Best Practices
- Plany na przyszłość

Problemy

Czy wiecie po co wdrażacie Power Platform?

"Kupiliśmy bo konkurenci chwalili się, że mają!"

- Firma A

"Chcemy wdrożyć aplikację i się nie martwić"

- Firma B

"Kupiliśmy i uruchomiliśmy razem z M365 ale nie wiemy, jakie działy firmy korzystają z tego rozwiązania."

- Firma C

"Dlaczego zabrakło nam przestrzeni?"

- Firma D

"Kto teraz używa Power Apps i do czego?"
- Firma E

Zagrożenia i mitygacje

- Domyślne środowisko i opcja "share with everyone"
- Użycie konektorów do wykradzenia danych
- Customer Lockbox
- Customer Key Encryption
- OWASP Low-Code/No-Code Top 10
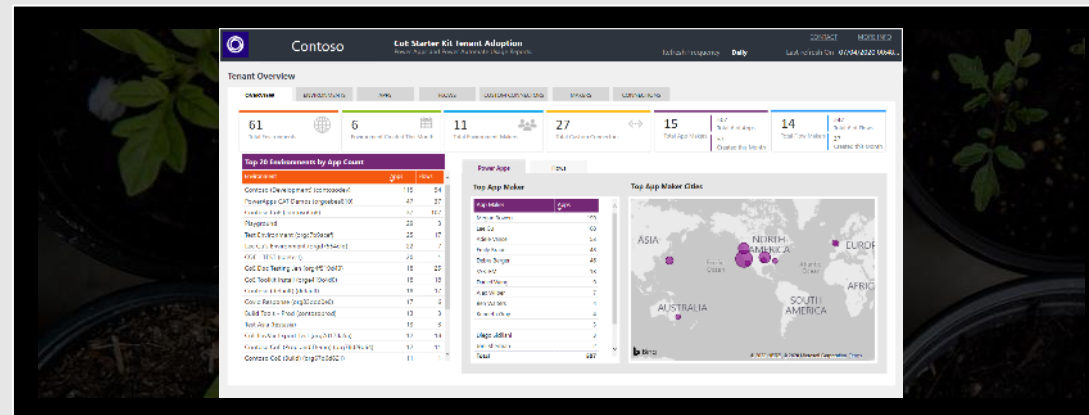
Centre of Excellence (CoE)

Center of Excellence
Grupa doświadczonych fachowców, strategii, narzędzi i procesów skupionych na rozwoju skali Power Platform oraz wdrażaniu innowacji w organizacji.

Center of Excellence Starter Kit
Zbiór narzędzi Microsoft ułatwiających pracę CoE I zapewniającej warunki przyspieszenia rozwoju środowiska Power Apps i Power Automate.
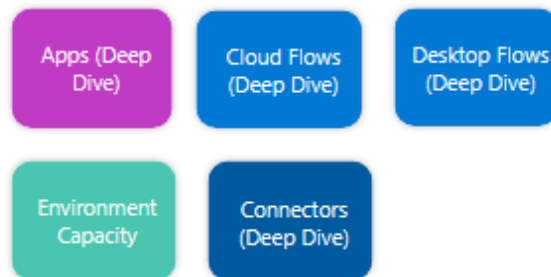

Oba te elementy są kluczowe.

CoE Starter Kit Dashboard

MONITOR

|		
Power Apps (Overview)	Power Automate (Overview)	Custom Connectors
Environments	Teams Environments	Business Process Flows
Bots (Overview)	Bots (Deep Dive)	Power Pages
Solutions	AI Builder	

Query Power Platform inventory (Environments, Apps, Flows, Makers, Connectors, Bots, Solutions, AI Builder models, Pages) at scale and monitor usage across your entire tenant and at environment level. These reports also support appropriate drill downs, trending, filtering (by maker department/country/city, connector usage, premium feature usage)

GOVERN

Apps (Deep Dive)	Cloud Flows (Deep Dive)	Desktop Flows (Deep Dive)
Environment Capacity	Connectors (Deep Dive)	

Perform risk assessments based on viral sharing, connector or operation usage, identify complex flows and orphaned or unused resources. Take action through an embedded app to take ownership, email the maker or delete the resource.

NURTURE

Makers	App Usage	Desktop Flow Usage
Power Apps Adoption	YoY Adoption	Cloud Flow Usage
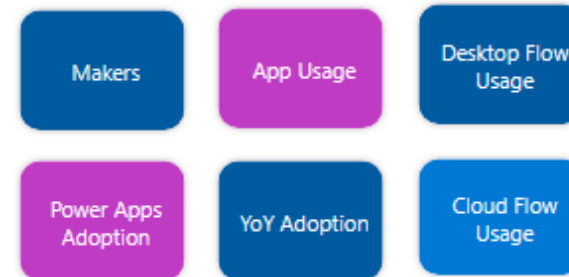
Find your star app and flow makers, see what connectors they are using, where they are based (department/city/country) and how they are adopting the Power Platform.

Environments

124
Environments

13
Environment Makers

(Blank)
Created in the last month

2
Teams environments

34
Developer environments

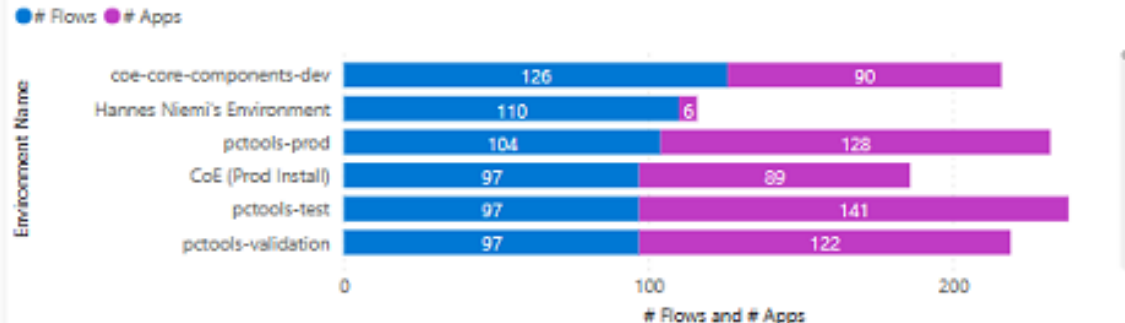**(Blank)**
Trial environments

121
Dataverse instances

App Creation Trend

Apps and Flows per Environment

● # Flows ● # Apps

Environment Name	# Flows	# Apps
coe-core-components-dev	126	90
Hannes Niemi's Environment	110	6
pctools-prod	104	128
CoE (Prod Install)	97	89
pctools-test	97	141
pctools-validation	97	122
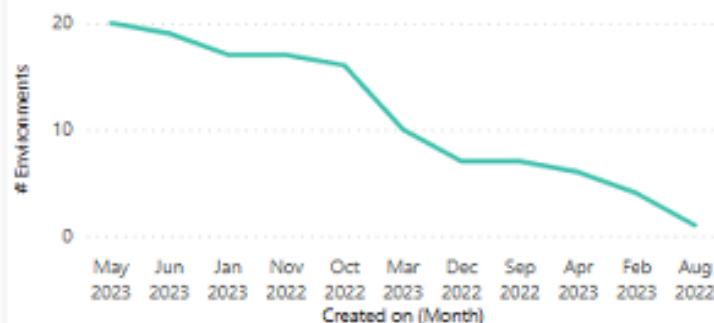
Environments by Environment Type
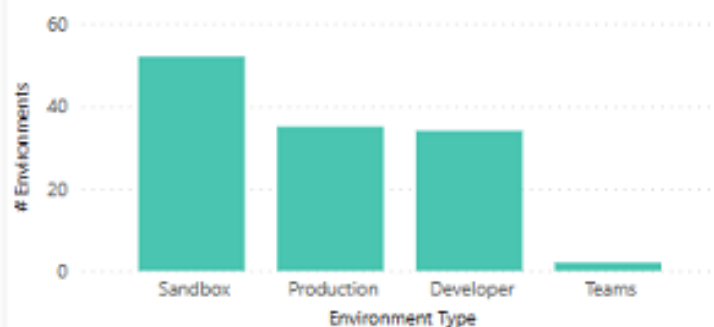
Environments by Creator

Environment Maker ID	# Environments
SYSTEM	29
4e337820-b...	25
6b08e10d-9...	19
14279826-b...	17
9e143c45-2...	15
d3e63217-5...	5
3b8bd16c-e...	3
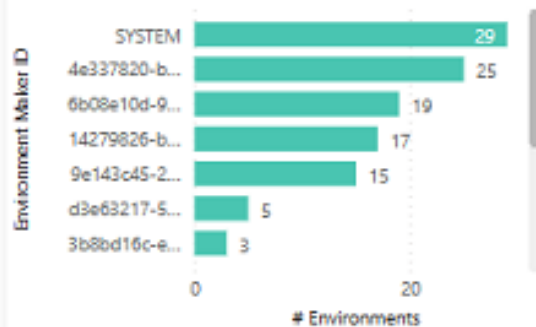
% of Enabled Environments

Is Managed ● Enabled

124 (100%)
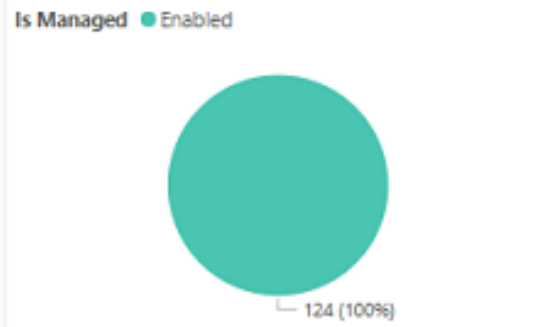
Filters

Search

Filters on this page

Created On
is (All)

Environment Name
is (All)

Environment Type
is (All)

Environment Region
is (All)

Has CDS
is (All)

Filters on all pages

Environment Name
is (All)

Environment Type
is (All)

Is Orphaned
is (All)

Microsoft Teams Environments

1	1	(Blank)		1	2
# Environments	# Makers	# Created this month		# Flows	# Apps

Environment Creation Trend

Apps and Flows per Environment

● # Flows ● # Apps

Environment Details

Environment Name	PPAC	Created On	Environment Maker	Latest App Launched on
CoE Team	🔗	12/5/2022 3:58:54 PM	Lee Gu	

App Details

App Name	App Owner	Last Launched	Created On
Power CAT Component Library	Adele Vance		4/6/2023 1:44:17 PM
test app	Lee Gu		12/5/2022 4:07:31 PM

Power Apps

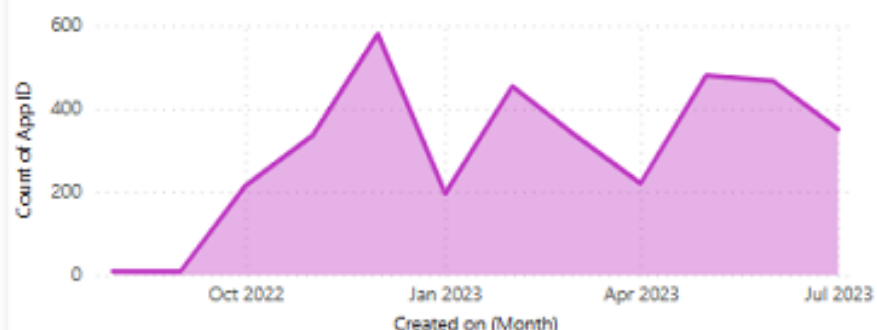| 3648	550	13		631	626	3648
# Apps	# Created in the last month	# App Makers		Canvas Apps	Model Driven Apps	Production Apps

App Creation Trend

Makers over time
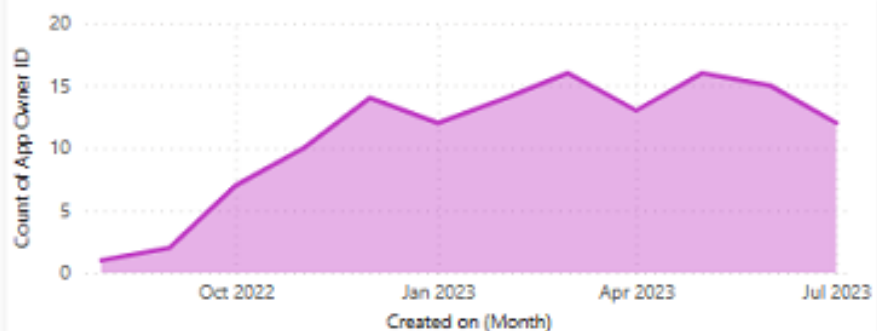
Apps per Environment

Environment	# Apps
pctools-test	174
pctools-prod	165
pctools-validation	154
creator-kit-dev	136
coe-byodl-test	121
coe-febrelease-test	118
coe-governance-com...	117

Connectors used in apps

Connector Name	# Apps
Microsoft Dataverse	2.8K
Logic flows	0.8K
Office 365 Users	0.8K
Office 365 Outlook	0.5K
Office 365 Groups	0.4K
Power Apps for Makers	0.3K
Power Automate for ...	0.3K
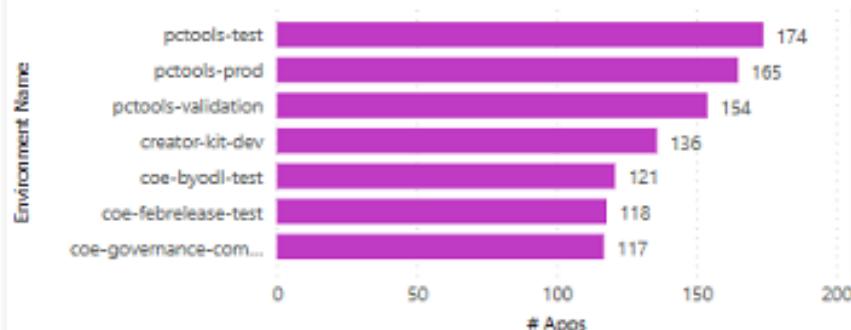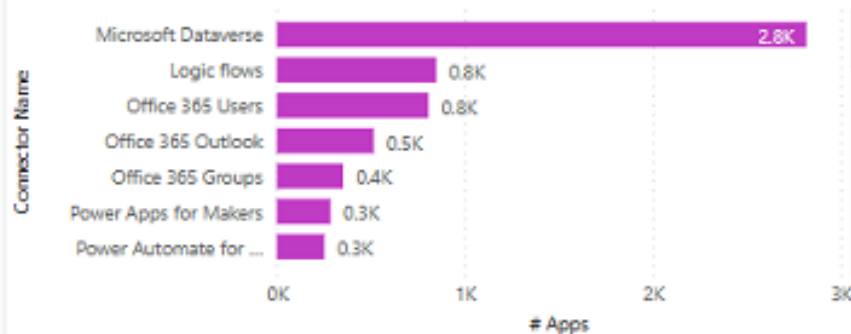
Filters

Search

Filters on this page

Deleted
is False

App Name
is (All)

App Owner
is (All)

App plan classification
is (All)

App Type
is (All)

Environment Name
is (All)

Shared with tenant
is (All)

Environment Type
is (All)

App Shared With (Total)
is (All)

Connector Tier
is (All)

Connector Name
is (All)

Power Automate Cloud Flows

1990	341	21		1556	421	13
# Flows	# Created in the last month	# Flow Makers		# of cloud flows: started	# of cloud flows: stopped	# of cloud flows: suspended

Flow Creation Trend

Makers over time

Flows per Environment

Environment Name	# Flows
coe-core-component...	127
Hannes Niemi's Envir...	109
pctools-prod	104
coe-byodl-componen...	96
CoE (Prod Install)	95
pctools-validation	91
pctools-test	90

Connectors used in flows

Connector Name	# Flows
Microsoft Dataverse	1615
Microsoft Dataverse (I...	527
Power Platform for A...	332
Power Apps for Admins	255
Office 365 Users	212
Power Automate Man...	188
Office 365 Groups	108
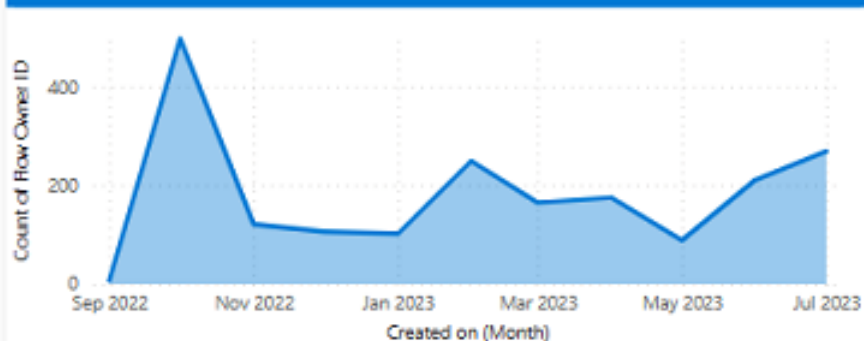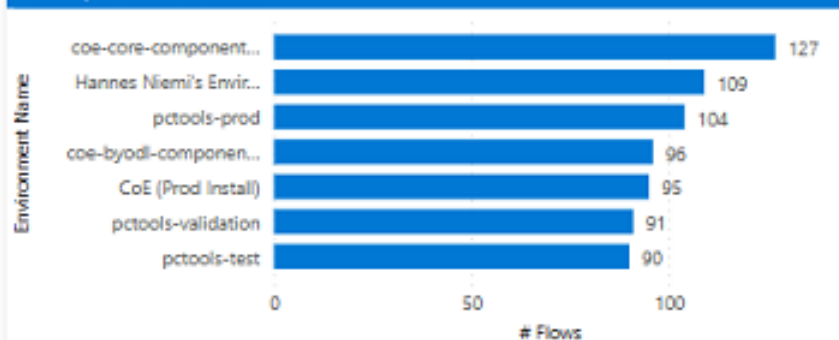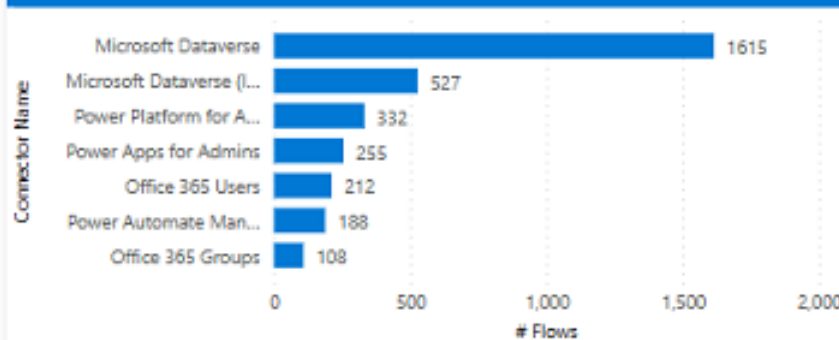
Filters

Search

Filters on this page

Environment Type
is (All)

Deleted
is False

Flow Name
is (All)

Flow Maker
is (All)

State
is (All)

Environment Name
is (All)

Connector Tier
is (All)

Connector Name
is (All)

Teams Environments | Apps | **Cloud Flows** | Custom Connectors | Desktop Flows | Bots | AI Builder Models | Power Pages | Solutions | Business Process Flows | App

Environment Capacity

119	13
# Environments	# Environment Makers
	3
	# Created in the last month

210	95	113	2
Total Consumption (GB)	Database Consumption (GB)	File Consumption (GB)	Log Consumption (GB)

Environment Capacity Overview

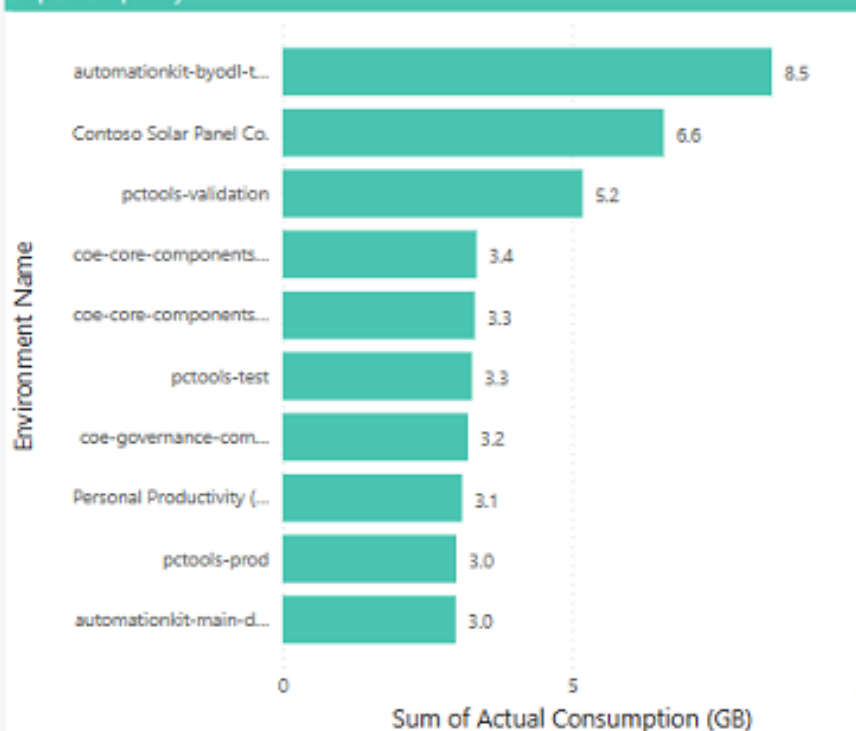| Environment Name	Consumption (GB)	Capacity Type	Environment Maker	PPAC (Capacity)
automationkit-byodl-test	4.83	Database	Nestor Wilke	🔗
Contoso Solar Panel Co.	4.18	File	SYSTEM	🔗
pctools-validation	3.86	File	Lee Gu	🔗
automationkit-byodl-test	2.41	Log	Nestor Wilke	🔗
Contoso Solar Panel Co.	2.40	Database	SYSTEM	🔗
coe-core-components-dev	1.83	Database	Nestor Wilke	🔗
coe-core-components-dev-copy	1.81	Database	Lynne Robbins	🔗
coe-governance-components-dev	1.80	Database	Nestor Wilke	🔗
automation-satellite-validation	1.79	File	Lee Gu	🔗
pctools-test	1.75	File	Nestor Wilke	🔗
Personal Productivity (default)	1.75	File	SYSTEM	🔗
automationkit-main-dev	1.67	File	Nestor Wilke	🔗
AppsourcePackager_Main	1.64	File	Lee Gu	🔗
automation-satellite-test	1.64	File	Lee Gu	🔗
pctools-prod	1.63	File	Nestor Wilke	🔗
pctools-codereview-dev	1.61	File	Nestor Wilke	🔗
coe-nurture-components-dev	1.59	File	Nestor Wilke	🔗
pctools-proof-of-concept-dev	1.59	File	Nestor Wilke	🔗
coe-core-components-dev-copy	1.54	File	Lynne Robbins	🔗
coe-febrelease-test	1.52	Database	Lee Gu	🔗

Top 10 Capacity

Environment Name	Sum of Actual Consumption (GB)
automationkit-byodl-t...	8.5
Contoso Solar Panel Co.	6.6
pctools-validation	5.2
coe-core-components...	3.4
coe-core-components...	3.3
pctools-test	3.3
coe-governance-com...	3.2
Personal Productivity (...	3.1
pctools-prod	3.0
automationkit-main-d...	3.0

Introduction | Overview - Power Apps | Overview - Power Automate | Overview - Power Virtual Agents | Environments | Makers | Environment Capacity | Teams Environments

Power Apps

Explain apps by ...

Apps
3648

- 🔍 High value
- 🔍 Low value
- Environment Name
- **App plan classification**
- Department
- Connector Name
- Connector Tier
- App Type
- Archive Score
- Is Orphaned

App Details

App Name	Total Shared With	Unique Users	Latest Launched on	Archive Score	Environment
ALM Accelerator for Power Platform	6	5	7/14/2023 7:28:12 PM	1	alm-accelerat
ALM Accelerator for Power Platform	61	4	7/6/2023 3:13:26 PM	1	pctools-prod
ALM Accelerator for Power Platform	53	3	7/6/2023 3:14:55 PM	1	pctools-valid
Admin - Environment Request	6	2	6/19/2023 4:20:17 PM	1	coe-core-con
Automation Project	2	2	7/13/2023 2:48:02 AM	1	automationki
Automation Solution Manager	3	2	7/13/2023 12:50:37 PM	1	automationki
AutomationKit ROI Calculator	2	2	7/4/2023 1:11:34 AM	1	automationki
DLP Editor V2	4	2	6/9/2023 11:45:22 AM	1	coe-core-con
Fluent Theme Designer	9	2	7/13/2023 8:14:02 PM	1	creator-kit-de
Innovation Backlog	2	2	6/16/2023 2:10:43 PM	1	coe-innovatic
Maker - Environment Request	33	2	6/19/2023 4:20:06 PM	1	coe-core-con
Power Apps Review Tool	4	2	6/28/2023 9:53:32 AM	1	pctools-code
Set Flow Permissions	4	2	7/10/2023 12:38:38 PM	1	coe-core-con
SubwayNav Canvas	2	2	4/20/2023 7:05:22 PM	0	creator-kit-de
[Deprecated] Business Approval Process Manager	1	1	4/20/2023 10:09:57 PM	1	biz-approvals
Admin - Access this App [works embedded in Power BI only]	24	1	7/1/2023 2:53:10 PM	1	CoE (BYODL
Admin - Access this App [works embedded in Power BI only]	24	1	6/15/2023 3:08:22 PM	1	CoE (Prod Ins
Admin - Access this Flow [works embedded in Power BI only]	24	1	4/4/2023 4:55:28 PM	1	CoE (Prod Ins
Admin - Environment Request	2	1	7/12/2023 7:19:46 PM	1	CoE (Prod Ins
App Catalog	51	1	4/14/2023 2:49:09 PM	2	coe-byodl-co
Automation Project	1	1	5/4/2023 8:05:54 PM	1	Graham Barn
Automation Project	24	1	5/5/2023 2:44:20 AM	1	pctools-valid
Automation Project - Test	1	1	6/22/2023 9:33:08 AM	2	automationki

Filters

🔍 Search

Filters on this page ...

Deleted
is False

App Name
is not blank

App Owner
is (All)

App plan classification
is (All)

App Type
is (All)

Environment Name
is (All)

Shared with tenant
is (All)

Environment Type
is (All)

App Shared With (Total)
is (All)

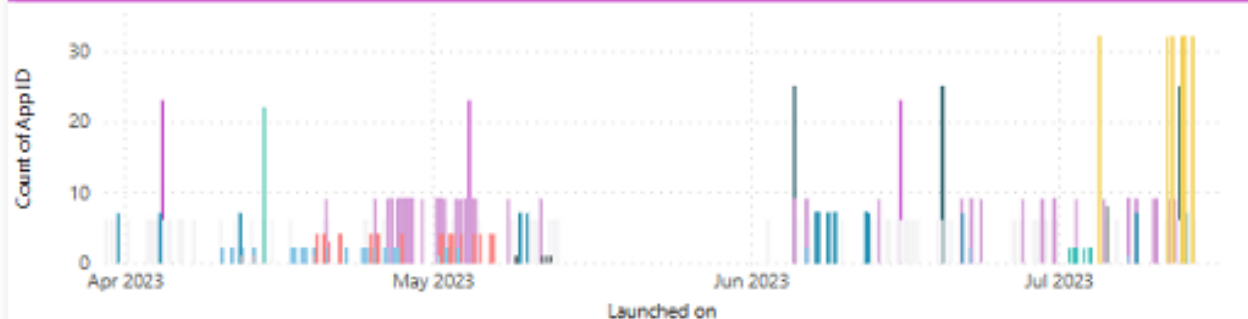Shared groups
is (All)

Shared users
is (All)

◁ ▷ | Business Process Flows | **App Deep Dive** | Flow Deep Dive | Connector Deep Dive | App Usage | SharePoint Form Apps | Desktop Flow Usage | Power Apps Adoption | Power

Cloud Flows

Explain flows by ...

Connector Tier ✕

Custom
4

Flows
1990

Premium
1773

Standard
930

Flow Details

Flow Name	Flow Maker	Sum of Archive Score	State	Environment Name
[EPA] Ad-hoc test case run	Graham Barnes	0	Started	Graham Barnes's Environment
[EPA] Run test cases (child)	Graham Barnes	0	Started	Graham Barnes's Environment
add data	Mario Rogers	2	Started	creator-kit-dev
Add Maker Asse:		0	Started	coe-nurture-components-dev
Add Maker Asse:		0	Stopped	coe-byodl-components-dev
Add pain points	rator	0	Started	pctools-validation
Add pain points		0	Started	coe-innovation-backlog-compo
Add pain points	by	1	Started	automationkit-main-dev
Add PowerFx Ru	rs	0	Started	creator-kit-dev
Admin | Add M				CoE (BYODL Prod Install)
Admin | Add M				CoE (Prod Install)
Admin | Add Maker to Group	Adele Vance			coe-auditlog-components-dev
Admin | Add Maker to Group	Adele Vance			French CoE
Admin | Add Maker to Group	Adele Vance			Japanese CoE
Admin | Add Maker to Group	Adele Vance	1	Started	temp - remove CC
Admin | Add Maker to Group	Adele Vance	0	Started	temp - setup testing 1
Admin | Add Maker to Group	Adele Vance	1	Started	temp - setup testing 4
Admin | Add Maker to Group	Hannes Niemi	1	Started	Hannes Niemi's Environment
Admin | Add Maker to Group	Hannes Niemi	0	Started	Hannes Niemi's Environment
Admin | Add Maker to Group	Lee Gu	0	Started	coe-byodl-components-dev
Admin | Add Maker to Group	Lee Gu	0	Started	coe-byodl-test
Admin | Add Maker to Group	Lee Gu	0	Started	coe-core-components-dev
Admin | Add Maker to Group	Lee Gu	0	Started	coe-febrelease-test
Admin | Add Maker to Group	Lee Gu	0	Started	coe-governance-components-d
Admin | Add Maker to Group	Lee Gu	0	Started	coe-nurture-components-dev
Admin | Add Maker to Group	Lee Gu	0	Started	temp-coe-byodl-leeg
Admin | Add Maker to Group	Lee Gu	0	Stopped	pctools-prod

Context menu:
- Copy
- Share
- Show as a table
- Include
- Exclude
- Drill through
  - Manage Flow Access
  - Review Flow Archive Score
  - Review Flow Connectors

App Deep Dive | **Flow Deep Dive** | Connector Deep Dive | App Usage | SharePoint Form Apps | Desktop Flow Usage | Power Apps Adoption | Power Platform YoY Adopti

Power Apps

App Launch Trend

App Details

App Name	Total Shared With	Unique Users	Latest Launched on	Environment Name
ALM Accelerator for Power Platform	6	5	7/14/2023 7:28:12 PM	alm-accelerator-dev
		4	5/12/2023 7:05:21 AM	
ALM Accelerator for Power Platform	61	4	7/6/2023 3:13:26 PM	pctools-prod
ALM Accelerator for Power Platform	53	3	7/6/2023 3:14:55 PM	pctools-validation
Admin - Environment Request	6	2	6/19/2023 4:20:17 PM	coe-core-components
Automation Project	2	2	7/13/2023 2:48:02 AM	automationkit-main-d
Automation Solution Manager	3	2	7/13/2023 12:50:37 PM	automationkit-satellite
AutomationKit ROI Calculator	2	2	7/4/2023 1:11:34 AM	automationkit-main-d
DLP Editor V2	4	2	6/9/2023 11:45:22 AM	coe-core-components
Fluent Theme Designer	9	2	7/13/2023 8:14:02 PM	creator-kit-dev
Innovation Backlog	2	2	6/16/2023 2:10:43 PM	coe-innovation-backlo
Maker - Environment Request	33	2	6/19/2023 4:20:06 PM	coe-core-components
Power Apps Review Tool	4	2	6/28/2023 9:53:32 AM	pctools-codereview-d
Set Flow Permissions	4	2	7/10/2023 12:38:38 PM	coe-core-components
SubwayNav Canvas	2	2	4/20/2023 7:05:22 AM	creator-kit-dev

App Launches per App Maker
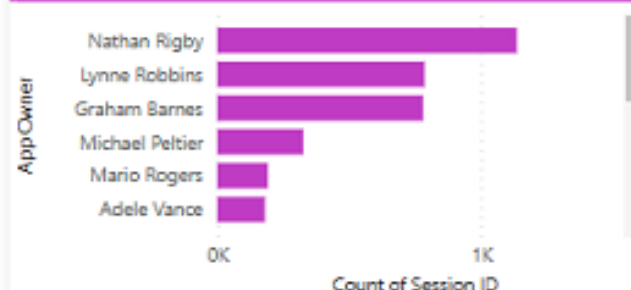
App Launches per App
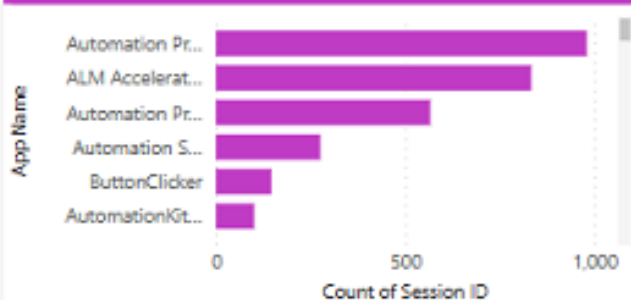
App Launches per App Classification

Filters

Search

Filters on this page   ...

Deleted
is False

App Owner
is (All)

App plan classification
is (All)

App Type
is (All)

Environment Name
is (All)

Shared with tenant
is (All)

Environment Type
is (All)

App Shared With (Total)
is (All)

Shared groups
is (All)

Shared users
is (All)

Launched on
is (All)

Power Apps Adoption Deep Dive

626	10	0.00%	0.00%	0.00%
App Sessions in the last month	Unique Users in the last month	Month over Month change of App Users	Month over Month change of Launches	Month over Month change of App Makers

3648
Apps

631
Canvas Apps

626
Model Driven Apps

1
SharePoint Apps

2426
Premium Apps

(Blank)
SQL Apps

2822
Dataverse Apps

44
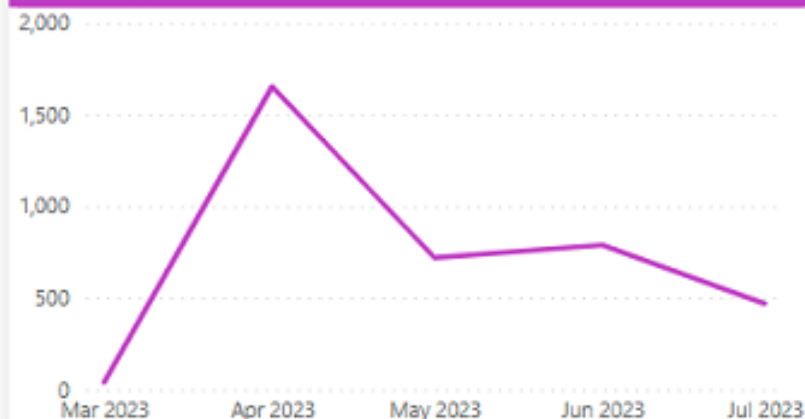# Azure * Apps

25
Makers

23
Canvas App Makers

18
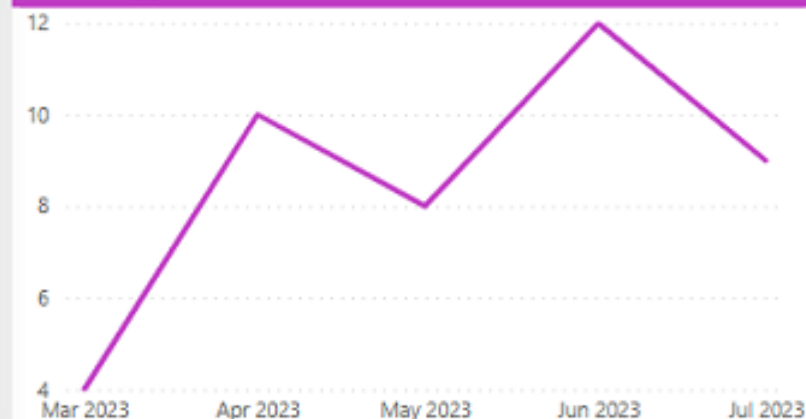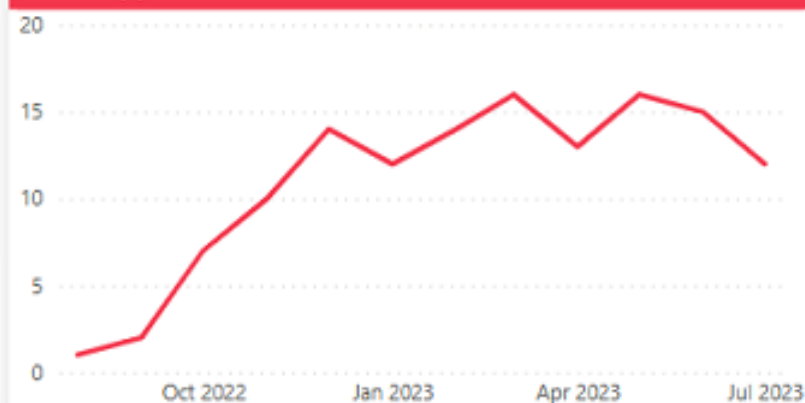# Model Driven App Makers

23
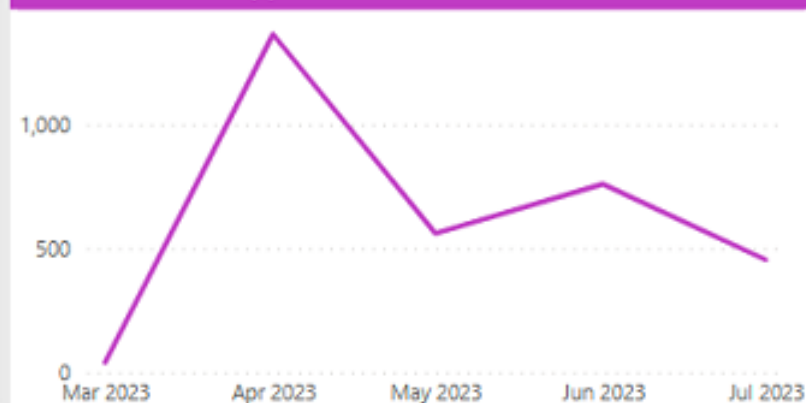# Premium App Makers

Canvas Apps Launched sessions over time

Canvas Apps Users over time

Power Apps Makers over time

Premium Canvas Apps Launched sessions over time

Filters

Power Platform Compliance and Governance

(Blank) Apps with no owners	**55** Apps not in solutions	**(Blank)** Flows with no owners	**96** Flows not in solutions	**458** Cross-tenant connections
3 Non-Compliant Apps	**(Blank)** Grandfathered apps	**13** Suspended flows	**(Blank)** xt passwords	**6** Environments with no apps or flows
1 Apps shared with everyone	**(Blank)** Apps shared with > 100 users	**627** Flows with demo, test, ... in the name	Flows with duplic	...ank) ith open complianc...
3619 Apps not launched in the last month	**3619** Apps not launched in the last quarter	**1** Flows with open compliance reque...	**22** Flows Pending Suspension	**2** Open Environment Requests
256 Apps with demo, test, ... in the name	**3437** Apps with duplicate names	**135** Flows using HTTP actions		**4** Custom Connectors with Http Endp...
108 Apps with open compliance requests	**3** Quarantined Apps			**118** Non-Managed Environments

Copy >
Share >
⊕ Drill through >

Flow details
Flow license suspension details
Flow HTTP action details

Power Platform Adoption Insights

29
Apps launched this month

10
Unique users in the past month

66
Apps launched in the past 90 days
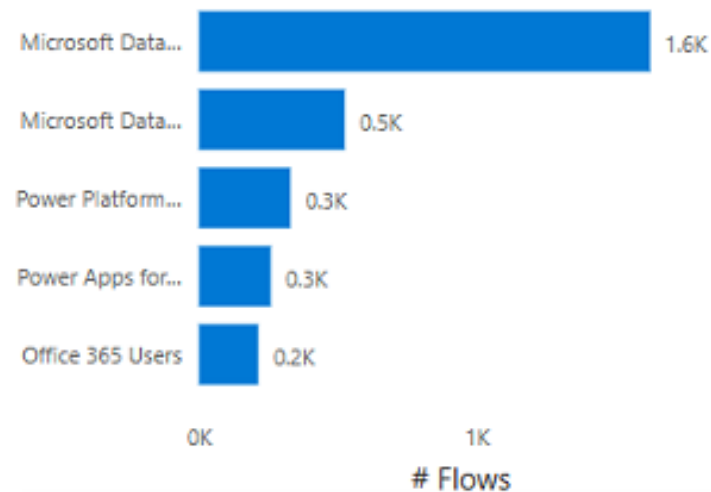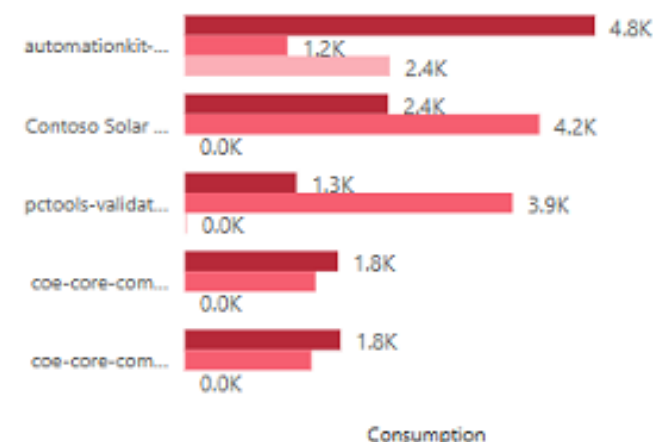
30
Total Makers

Top 5 connectors used in apps

Connector	Count of App ID
Microsoft Data...	2.8K
Logic flows	0.8K
Office 365 Users	0.8K
Office 365 Outl...	0.5K
Office 365 Gro...	0.4K

Count of App ID

Top 5 connectors used in flows

Connector	# Flows
Microsoft Data...	1.6K
Microsoft Data...	0.5K
Power Platform...	0.3K
Power Apps for...	0.3K
Office 365 Users	0.2K
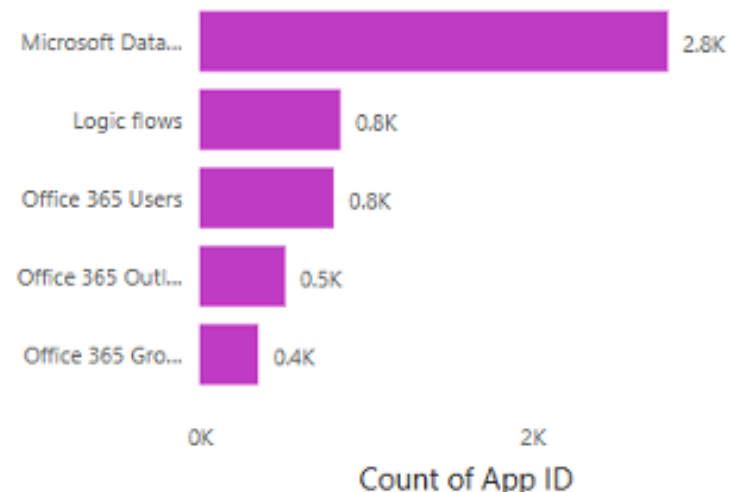
Flows

Top 5 Capacity

Capacity Ty... ● Database ● File ● Log

	Database	File	Log
automationkit-...	4.8K	1.2K	2.4K
Contoso Solar ...	2.4K	4.2K	0.0K
pctools-validat...	1.3K	3.9K	0.0K
coe-core-com...	1.8K	0.0K	
coe-core-com...	1.8K	0.0K	

Consumption

Top 5 most launched apps

Display Name	Owner	Sessions	U: U:
Automation Project - Test	Nathan Rigby	981	
Automation Solution Manager	Michael Peltier	276	
ALM Accelerator for Power Platform	Lynne Robbins	695	
Automation Project	Graham Barnes	515	
ButtonClicker	Graham Barnes	135	

Top 5 makers with most used apps

Owner	Sessions	Unique Users	Users Shared	Groups
Nathan Rigby	981	1	0	0
Lynne Robbins	695	5	0	0
Graham Barnes	650	2	0	0
Michael Peltier	276	2	2	0

Top 5 countries where makers create most used apps

Country	Sessions	Unique Users	Users Shared	Groups
	1907	3	2	0
United States	695	5	0	0

Default Environment Tech Debt

(Blank)	(Blank)	3	(Blank)	458
Apps with no owners	Grandfathered apps	Non-Compliant Apps	Flows with no owners	Cross-tenant connections

1	(Blank)		(Blank)	74
Apps shared with everyone	Apps shared with > 100 users		Flows using plain text passwords	Custom connectors

Top #5 launched apps

Display Name	Owner	Sessions	Unique Users	Users Shared
Automation Project - Test	Nathan Rigby	981	1	
ALM Accelerator for Power Platform	Lynne Robbins	695	5	
Automation Project	Graham Barnes	515	2	
Automation Solution Manager	Michael Peltier	276	2	
ButtonClicker	Graham Barnes	135	1	

Top #5 shared apps

Display Name	Owner	Sessions	Unique Users	Users Shared
Automation Solution Manager	Michael Peltier	276	2	
ALM Accelerator for Power Platform	Lynne Robbins	695	5	
Automation Project	Graham Barnes	515	2	
Automation Project - Test	Nathan Rigby	981	1	
ButtonClicker	Graham Barnes	135	1	

Latest non-compliant apps

Display Name	Owner	Sessions	Unique Users	Users Shared
Sample App	Adele Vance	44	1	
PipelinesTest Canvas	Marc Schweigert			
Test button visibility	Debra Berger			

Latest suspended flows

Flow Name	Maker
Admin	Audit Logs	Sync Audit Logs (V2)	Hannes Niemi
Automation Project - Approvals	Nathan Rigby
cloudFlow for Testing	Nathan Rigby
Excel Automation Scheduled	Nestor Wilke
My Flow's Flow	Adele Vance

Dobre praktyki

- Szkolenie administratorów z komponentów centrum administracyjnego (PPAC) oraz komponentów CoE Core/Audit/Governance
- Analiza działania DLP
- Strategia wdrożenia DLP
- Podstawowe polisy DLP
- Rozpoznanie czym jest i dlaczego należy włączyć rozwiązanie tenant isolation
- Tuning dashboardu CoE
- Konfiguracja zaawansowanej analityki w Application insights
- Konfiguracja podstawowego ALM i Devops dla Power platform

Plany

The Microsoft Sentinel Solution for Power Platform (Preview available soon)

Data Connectors:

Connector Name	Covered Logs / Inventory
Power Platform Inventory (using Azure Functions)	Power Apps and Power Automate inventory data
Microsoft Power Apps (Preview)	Power Apps activity logs
Microsoft Power Automate (Preview)	Power Automate activity logs
Microsoft Power Platform Connectors (Preview)	Power Platform connector activity logs
Microsoft Power Platform DLP (Preview)	Data loss prevention activity logs
Dynamics365	Dataverse and model-driven apps activity logging

Przydatne strony

- https://adoption.microsoft.com/en-us/powerplatform/
- https://learn.microsoft.com/en-us/power-platform/guidance/adoption/methodology
- https://learn.microsoft.com/en-us/power-platform/guidance/coe/starter-kit
- https://learn.microsoft.com/en-us/power-automate/guidance/planning/application-lifecycle-management
- https://learn.microsoft.com/en-us/power-platform/guidance/adoption/admin-best-practices
- https://learn.microsoft.com/en-us/training/modules/get-started-center-excellence/
- https://learn.microsoft.com/en-us/power-platform/admin/cross-tenant-restrictions
- https://www.darkreading.com/black-hat/azure-ad-guests-steal-data-microsoft-power-apps
- https://owasp.org/www-project-top-10-low-code-no-code-security-risks/