

# Let's Get Cognitive - Microsoft Power Platform Special Edition

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# What we do...

Microsoft  
Cloud Solution Provider

**atwork**  
We get you in the cloud!

Gold  
**Microsoft  
Partner**  
 Microsoft



Collaboration



Consulting

Security &  
Governance

Power  
Platform

Migrations

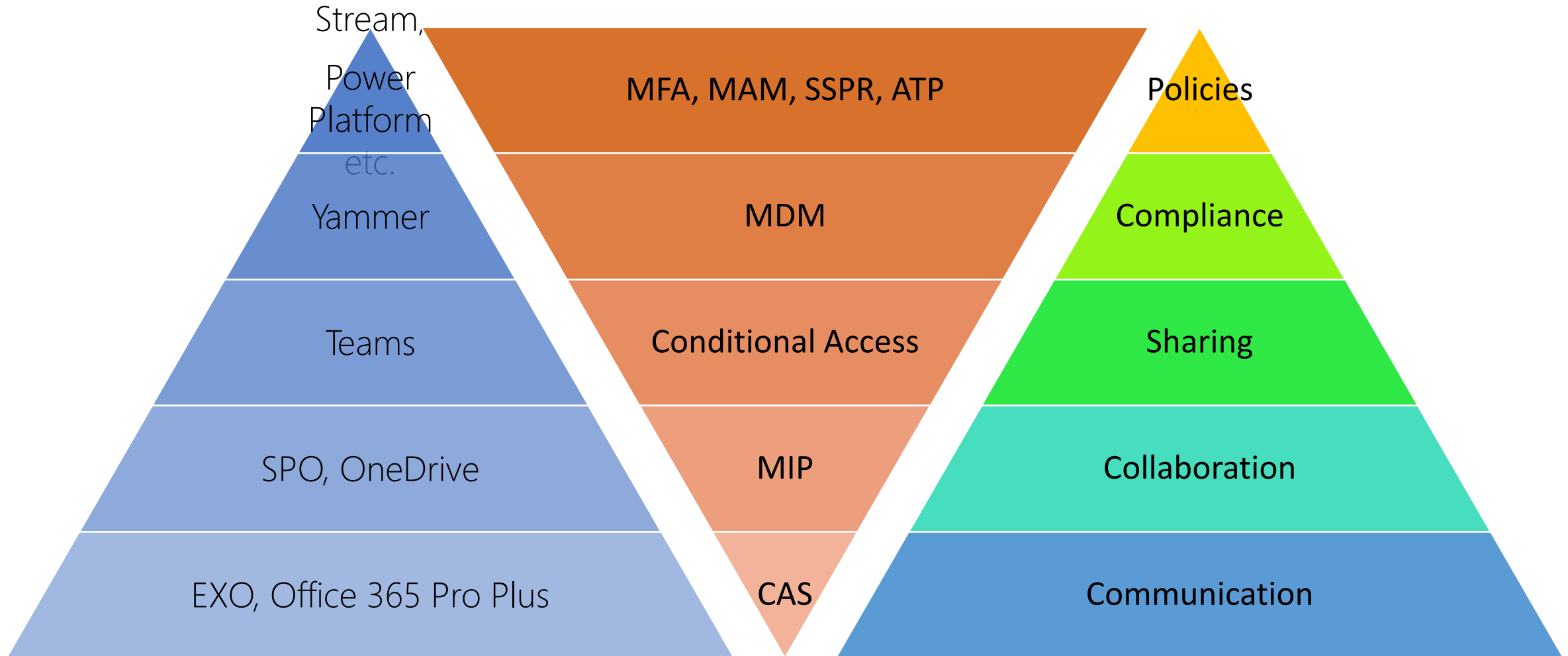
Apps

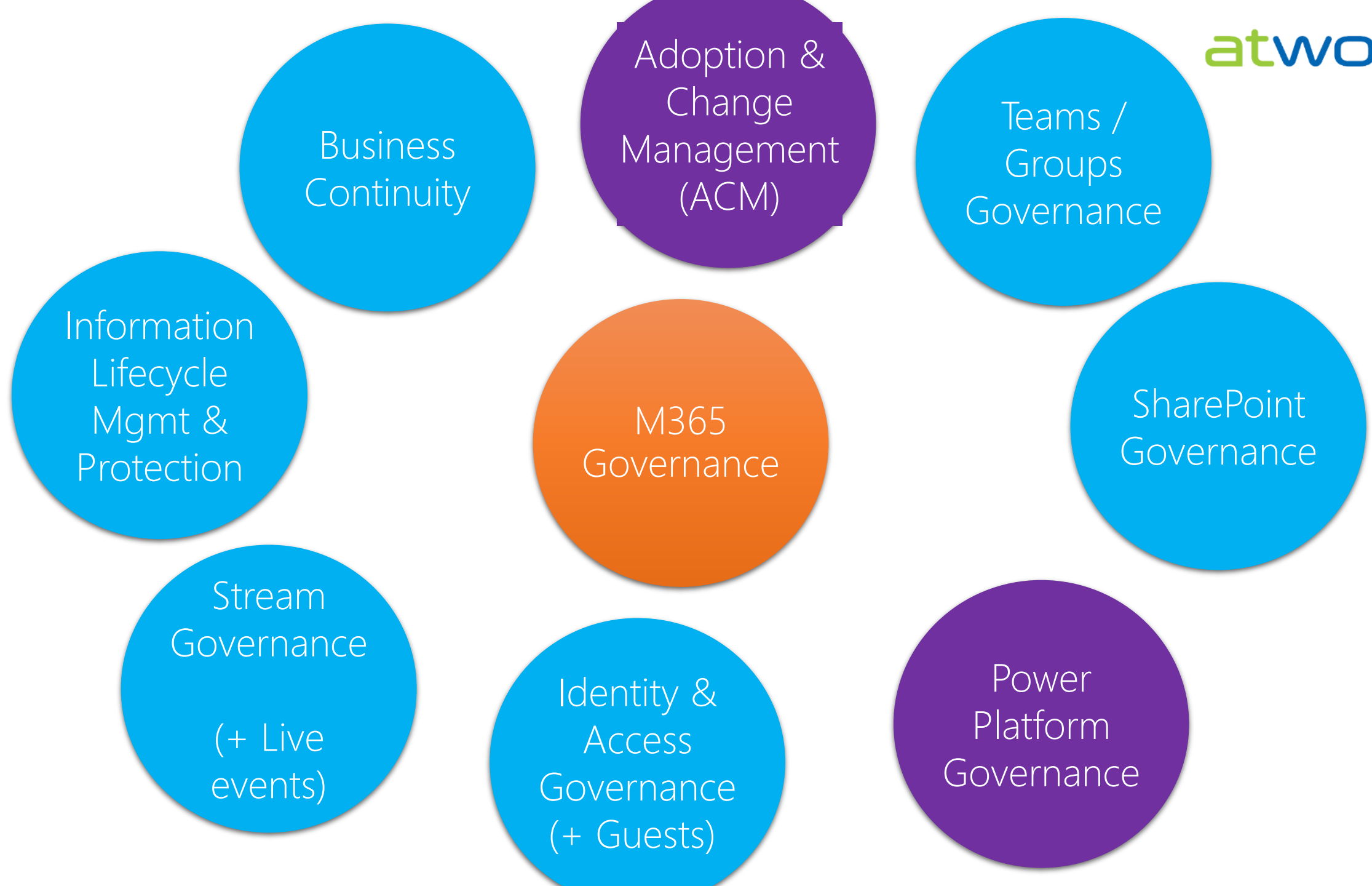
Development

# What is IT governance?

"IT Governance is a process used to monitor and control key information technology capability decisions - in an attempt - to ensure the delivery of value to key stakeholders in an organization."

# The Governance Challenge





# Microsoft Power Platform

The low-code platform that spans Office 365, Azure, Dynamics 365, and standalone applications



## Power BI

Business analytics



## Power Apps

Application development



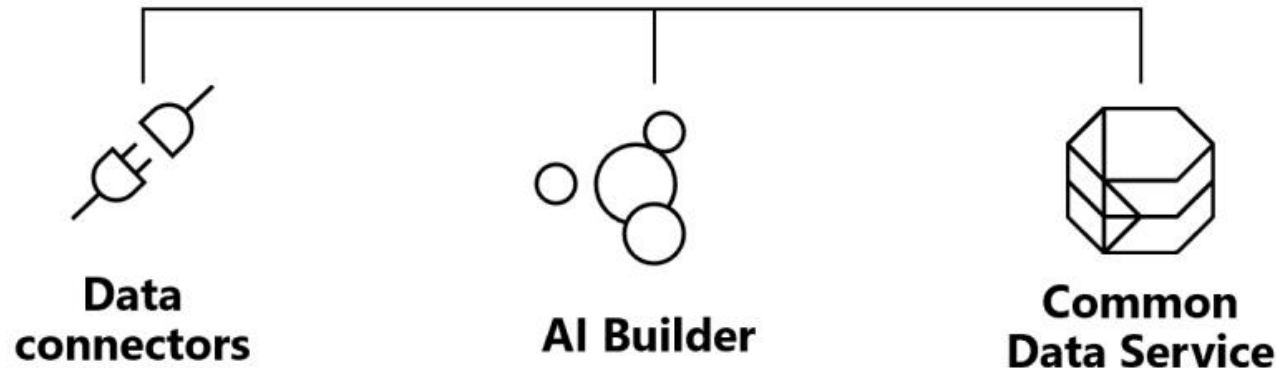
## Power Automate

Process automation



## Power Virtual Agents

Intelligent virtual agents



# PPAC

The new admin portal

# Best Practices

Environments Strategy

Types of Environments  
Dev / Test / Production Segregation

Policies for Connectors

Data Allowed / Blocked  
Standard / Premium

Activity Logs and Analytics

Usage Analysis

Automatic Audit processes

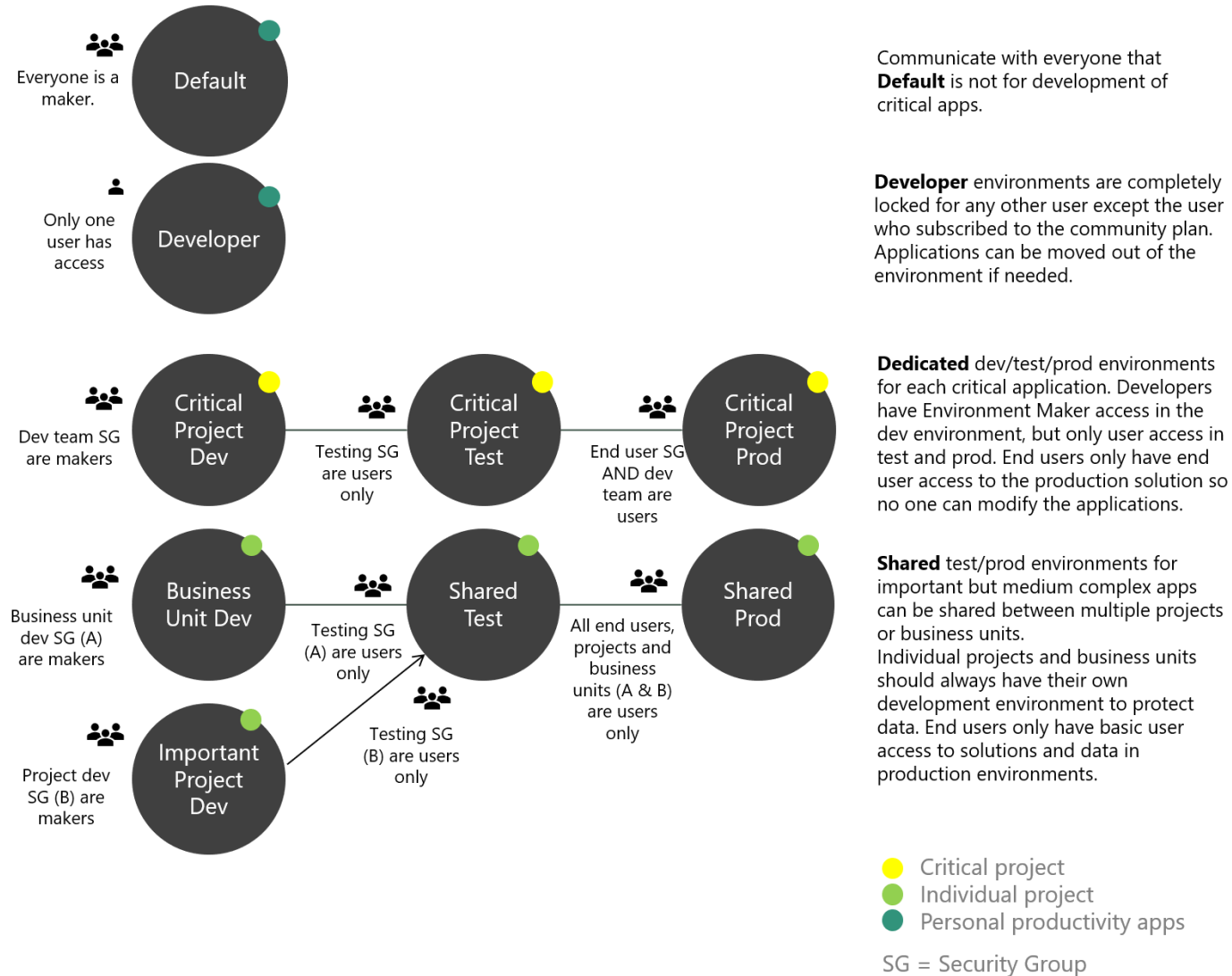
Outdated / Orphaned Flows and Apps  
App Classification

Makers Onboarding

Trainings & Templates



# Example environment strategy diagram



# Managing environments and apps with PowerShell

Automation of the Power Platform

# Install the Power Platform PowerShell modules

*# PowerShell in this topic requires PowerShell version 5.x.*

```
Install-Module -Name Microsoft.PowerApps.Administration.PowerShell
```

```
Install-Module -Name Microsoft.PowerApps.PowerShell -AllowClobber
```

*# Get static analysis checks of solutions against a set of best practice rules*

```
Install-Module Microsoft.PowerApps.Checker.PowerShell
```

*# check the latest installed version*

```
Get-InstalledModule -Name Microsoft.PowerApps.Administration.PowerShell,  
Microsoft.PowerApps.PowerShell
```

# Sign-in

*# Ask for credentials*

```
Add-PowerAppsAccount
```

OR

*# Alternatively: You can pass in credentials (avoiding opening a prompt)*

*# This works only without MFA.*

```
$pass = ConvertTo-SecureString "password" -AsPlainText -Force
```

```
Add-PowerAppsAccount -Username foo@bar.com -Password $pass
```

# Sign-in

*# Ask for credentials*

```
Add-PowerAppsAccount
```

OR

*# Alternatively: You can pass in credentials (avoiding opening a prompt)*

*# This works only without MFA.*

```
$pass = ConvertTo-SecureString "password" -AsPlainText -Force
```

```
Add-PowerAppsAccount -Username foo@bar.com -Password $pass
```

# Sample to get the environment

```
# Get the environment
```

```
Get-AdminPowerAppEnvironment | ft
```

```
$environment = Get-AdminPowerAppEnvironment -Default
```

OR

```
$environment = Get-AdminPowerAppEnvironment -EnvironmentName 'a123...'
```

```
# $environmentid = $environment.Internal.id
```

```
# We need to extract the ID only from
```

```
# "/providers/Microsoft.BusinessAppPlatform/scopes/admin/environments/Default-<someid>"
```

```
$environmentid = $environment.Internal.id.split("/")[-1]
```

```
Write-Output "Environment ID: $environmentid"
```

# Sample to get all apps in one enviroment

```
$apps = Get-AdminPowerApp | Where-Object {$_.EnvironmentName -eq $environmentid }
```

```
$apps | Format-Table -Property DisplayName, CreatedTime, EnvironmentName  
$apps.count
```

*# Get one specific app by AppName*

```
$myapp = $apps | Where {$_.DisplayName -eq "DMyApp" }  
$myapp.AppName
```

# Modify app permissions

*# Get the permissions for a specific app (prev. Get-AdminAppRoleAssignment)*

```
Get-AdminPowerApp -AppName $myapp.AppName -EnvironmentName $environmentid `
    | Get-AdminPowerAppRoleAssignment `
    | Select PrincipalDisplayname, PrincipalObjectId, RoleType, AppName `
    | ft
```

*# Add a user. We need the UserID from Azure AD.*

```
$userid = "c345..."
```

*# Add permissions to an app = Share the app.*

*# The user gets an email if -Notify \$true (default)*

```
Set-AdminPowerAppRoleAssignment -PrincipalType Group `
    -PrincipalObjectId $userid -RoleName CanEdit `
    -AppName $myapp.AppName -EnvironmentName $environmentid -Notify DoNotNotif
```





Home

Learn

Apps

Create

Data

Flows

Chatbots

AI Builder

Solutions

[+ New app](#) [← Import canvas app](#) [▶ Microsoft Dynamics 365](#)[My apps](#)[Search](#)

## Apps

[Apps](#) [Component libraries \(preview\)](#)

	Name		Modified	Owner	Type
	DemoApp2	...	1 d ago	Martina Grom	Canvas
	Device-Order	...	1 d ago	Toni Pohl	Canvas
	DemoApp3	...	1 d ago	Martina Grom	Canvas
	devportal1	...	3 d ago	SYSTEM	Portal
	ContactsDemo	...	2 d ago	Toni Pohl	Model-driven
	Portal Management	...	3 d ago	Toni Pohl	Model-driven
	Solution Health Hub	...	1 mo ago	SYSTEM	Model-driven

# Change the owner of an app

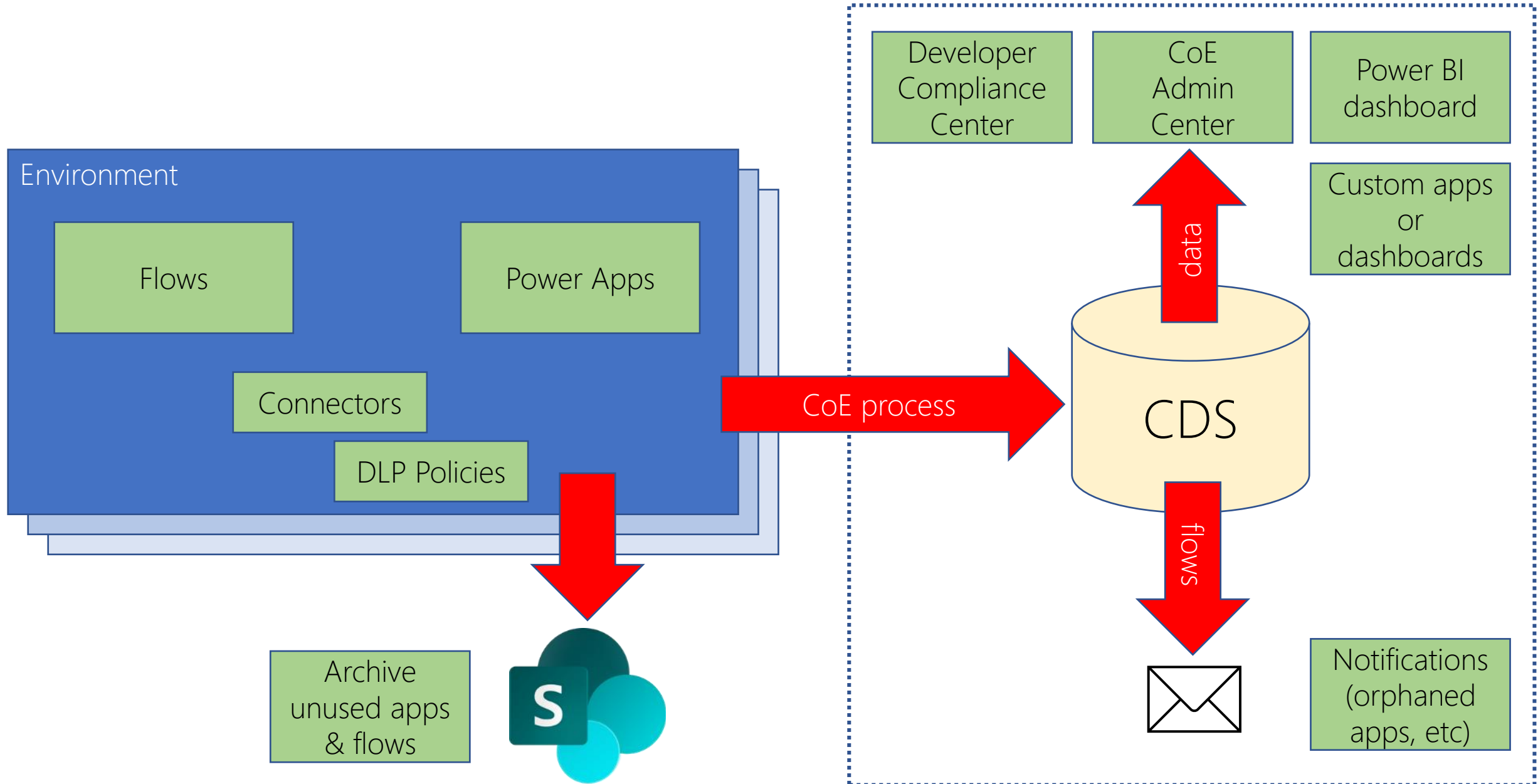
*# Change owner: Set-AdminPowerAppOwner (previously Set-AdminAppOwner)*

```
Set-AdminPowerAppOwner -AppName $myapp.AppName `
    -AppOwner $userid `
    -EnvironmentName $environmentid
```

# Center of Excellence (CoE)

Microsoft Add-On for governance of the Power Platform

# CoE Architecture



# CoE Demo

Components of the starter kit & Walkthrough



## Tenant Overview

## OVERVIEW

## ENVIRONMENTS

## APPS

## FLOWS

## CUSTOM CONNECTORS

## MAKERS

## CONNECTIONS

## VIRTUAL AGENTS

38

Total Environments



(Blank)

Environment Created This Month



12

Total Environment Makers



29

Total Custom Connectors



19

Total App Makers

510

Total # of Apps

(Blank)

Created this Month

17

Total Flow Makers

437

Total # of Flows

(Blank)

Created this Month

## Top 20 Environments by App Count

Environment	Apps	Flows
Contoso (Development) (contosodev)	133	60
PowerApps CAT Demos (orgcebea810)	48	39
Contoso CoE (contosoCoE)	45	197
Playground	37	9
Test Environment (orgc7b9acef)	27	18
Contoso (default) (default)	23	22
Covid Response (org83ddd0e0)	20	6
Lee Zuckett's Environment (orgb9edd30b)	19	34
Contoso CoE (Test) (org450dee36)	15	4
Lee Gu's Environment (orgd7554cfd)	14	7
Build Tools - Prod (contosoprod)	13	7
Test COE (org1acc665c)	13	4
Contoso CoE (Prod and Demo) (org78df9b64)	12	12
Daniel Wang's Test Environment (org96b14e10)	12	13
CoE Setup (org94a1e051)	11	0
John Test (orgc39e69c8)	8	0

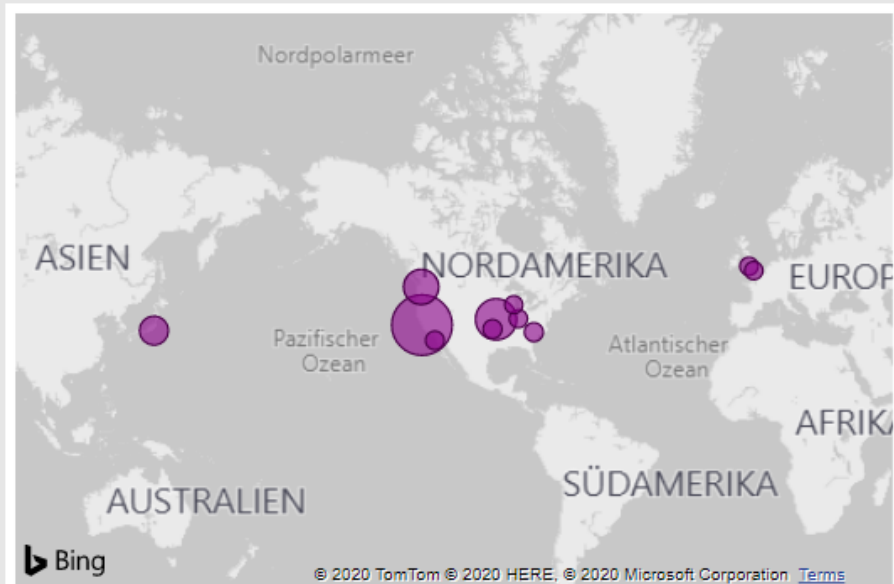
## Power Apps

## Flows

## Top App Maker

App Maker	Apps
Megan Bowen	193
Lee Gu	106
Emily Braun	51
Debra Berger	46
Adele Vance	33
Kenneth Gray	23
Daniel Wang	11
John Kim	7
SYSTEM	7
Joni Sherman	6
Alex Wilber	5
Demo	4
Ben Walters	3
<b>Total</b>	<b>510</b>

## Top App Maker Cities





## Power Virtual Agents Overview

OVERVIEW

ENVIRONMENTS

APPS

FLOWS

CUSTOM CONNECTORS

MAKERS

CONNECTIONS

VIRTUAL AGENTS

19

Total # of Bots

(Blank)

Created this Month



8

Total Bot Makers



19

Published Bots

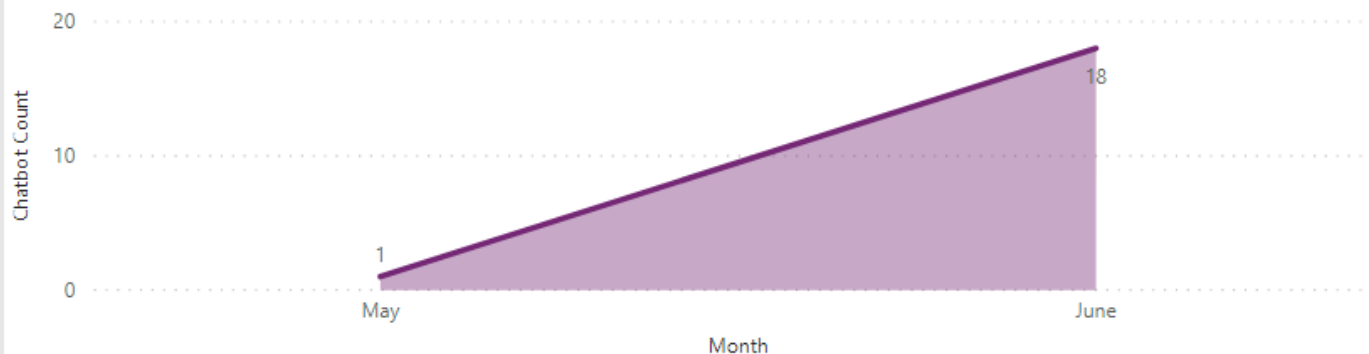
Owner

All

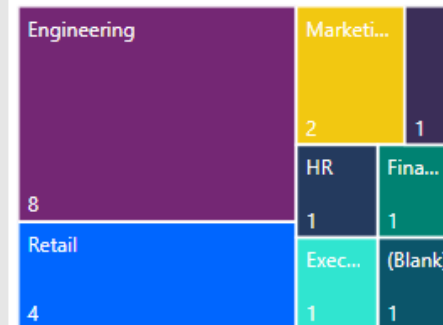
Environment

All

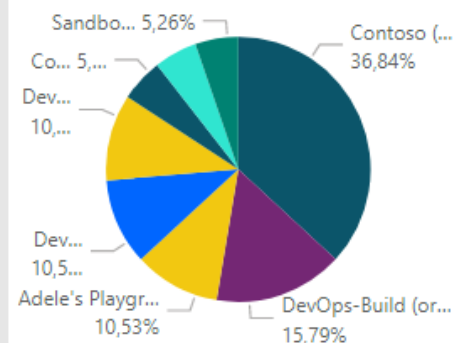
## Chatbot Creation Trend



## Top 10 Active Departments



## Top Environments by % of Bots



Display Name	State	Last Launched	# of Sessions	# of Bot Components	# of Flows	Environment
Adele Playground Bot	Published	28.06.2020 17:06:38	6	15	1	Adele's Playground (orgacafd0bf)
ALM Sample Bot	Published	02.07.2020 04:18:04	14			DevOps-Dev (org7a3fb188)
ALM Sample Bot	Published		0	16	1	DevOps-Build (org1a892f71)
ALM Sample Bot	Published		0	15	1	DevOps-Prod (orgd0ea932d)
bot in the sand	Published		0	14	1	Sandbox (orgd4e4f7b5)
BotPlayground	Published		0	14	1	Contoso (Development) (contosodev)
CoE Starter Test Bot	Published	19.06.2020 13:52:44	1			Contoso (default) (default)
Contoso Bot	Published	01.01.1900 00:00:00	0			Contoso (default) (default)
hotel example	Published	16.06.2020 15:44:46	6	15	2	Adele's Playground (orgacafd0bf)
Long First DVA	Published	01.01.1900 00:00:00	0			Contoso (default) (default)

# Planning

## Phase 1: Analyse and Planning

- Architecture, License and Security
- Environments, Connectors, Common Data Services, Data Loss Prevention (DLP)

## Phase 2: Implement and configure CoE

- Monitoring, Alerts and Deployment (DevOps)
- Monitor Power Apps and control new solutions.

## Phase 3: End User Adoption

- Let your users transform into Makers!
- Listen and learn to Business Requirements!



# Summary

## Governance Tools for the Power Platform

- Develop a governance plan & strategy
- Admin Center
- Auditing
- Manage with PowerShell & Automating
- Center of Excellence Starter Kit

# Call to action!

Contact us and see our  
M365 governance solutions

[www.atwork.at](http://www.atwork.at)

[www.governancetoolkit365.com](http://www.governancetoolkit365.com)

<https://github.com/tonipohl/PowerPlatformGovernance>