

# Governance...

"Establishment of policies, and continuous monitoring of their proper implementation, by the members of the governing body of an organization.

It includes the mechanisms required to balance the powers of the members (with the associated accountability), and their primary duty of enhancing the prosperity and viability of the organization."

**Business Dictionary** 



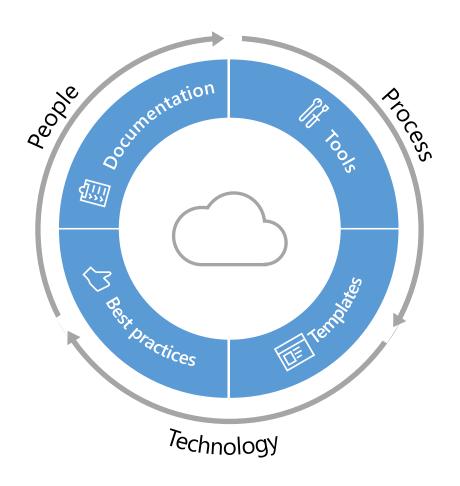
# Governance...

"Who can do what, when and under which conditions."

(my simplified version)

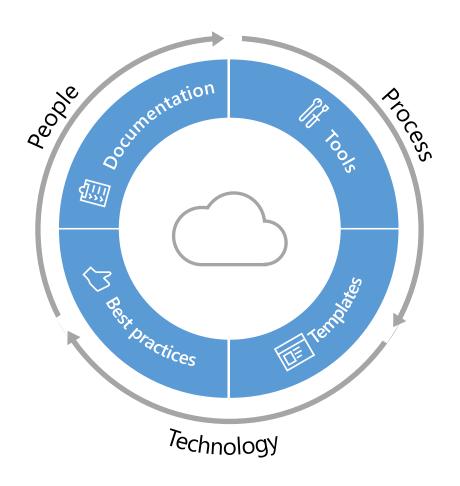


# The Governance principle



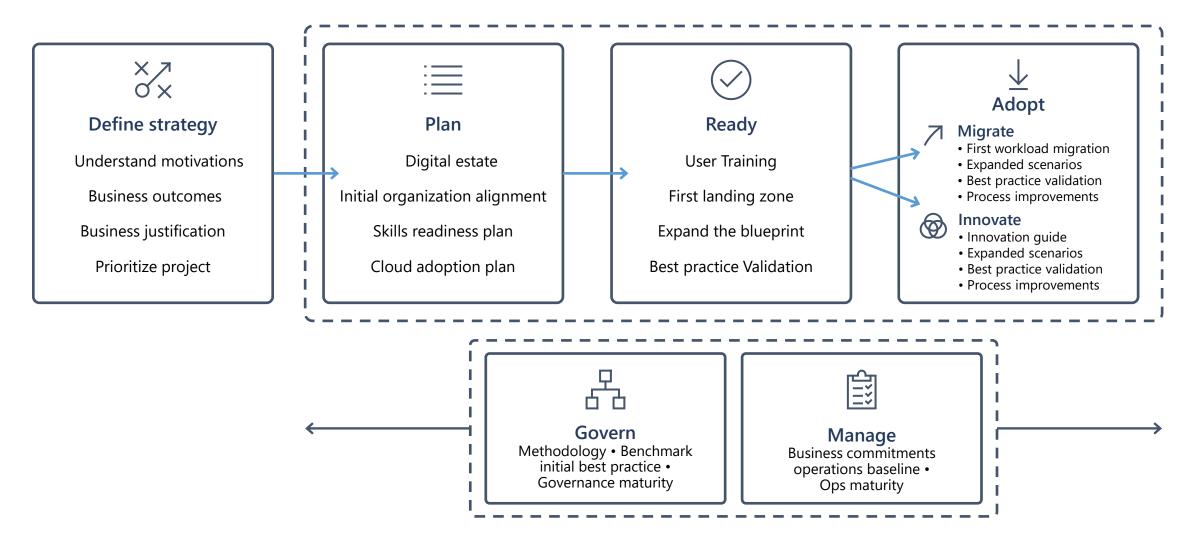


# The Governance principle





# Governance principles (for all technologies)



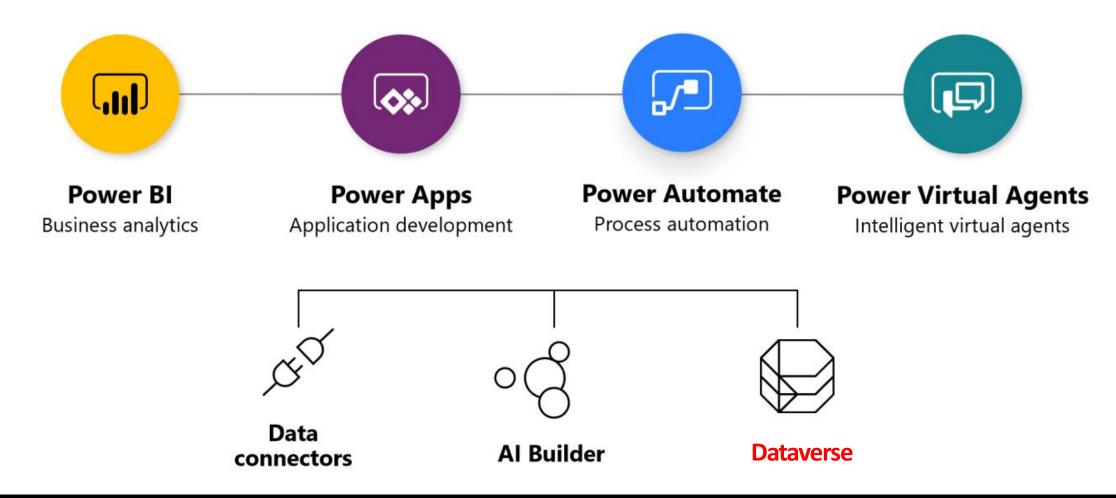


# Governance for the Power Platform



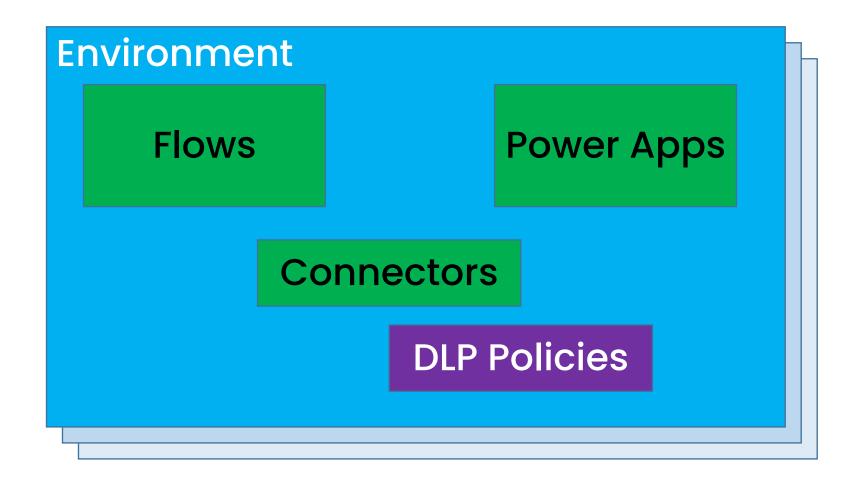
## Microsoft Power Platform

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





# The Power Platform management architecture

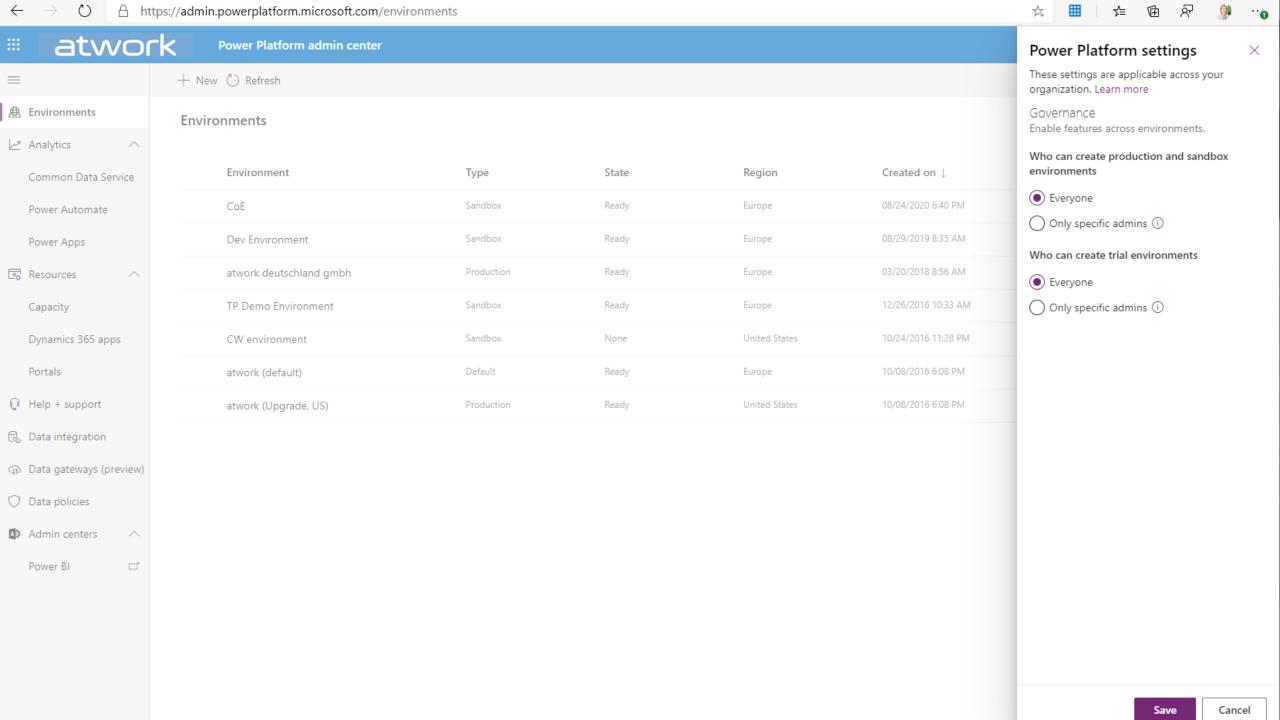




# **Best practices #1**

- Organize environments
- Use Admin-roles only for actual admins (use PIM)
- Assign User Licenses (later, not by default)
- aka.ms/ppac
- https://app.powerbi.com/admin-portal



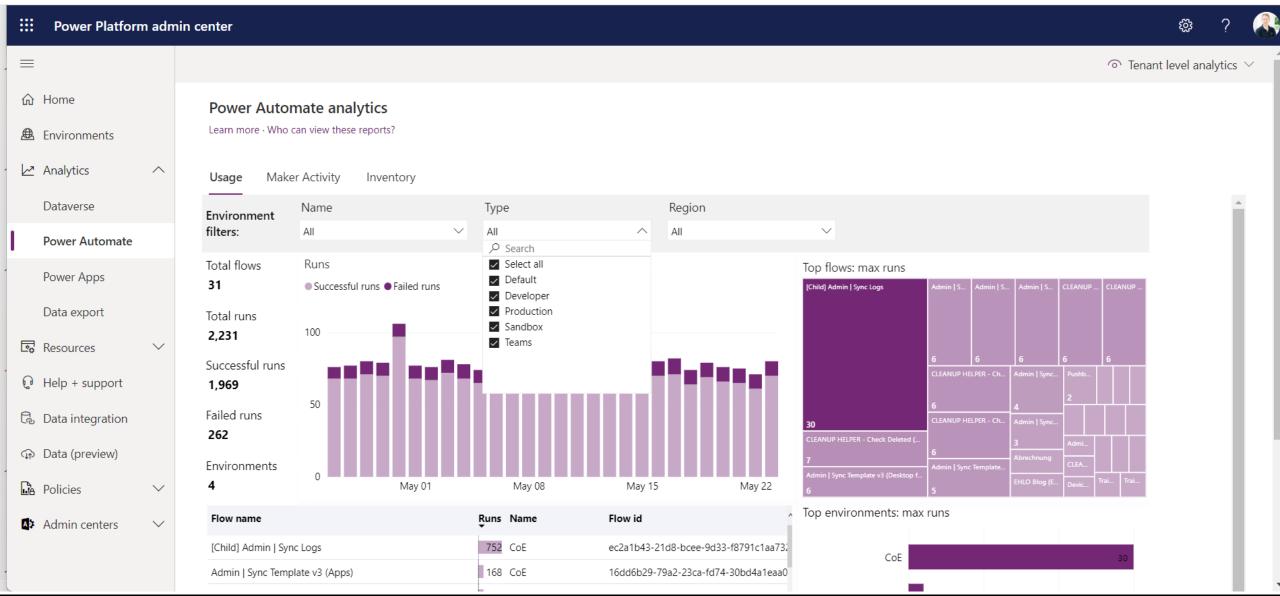


# Data governance in Power Platform

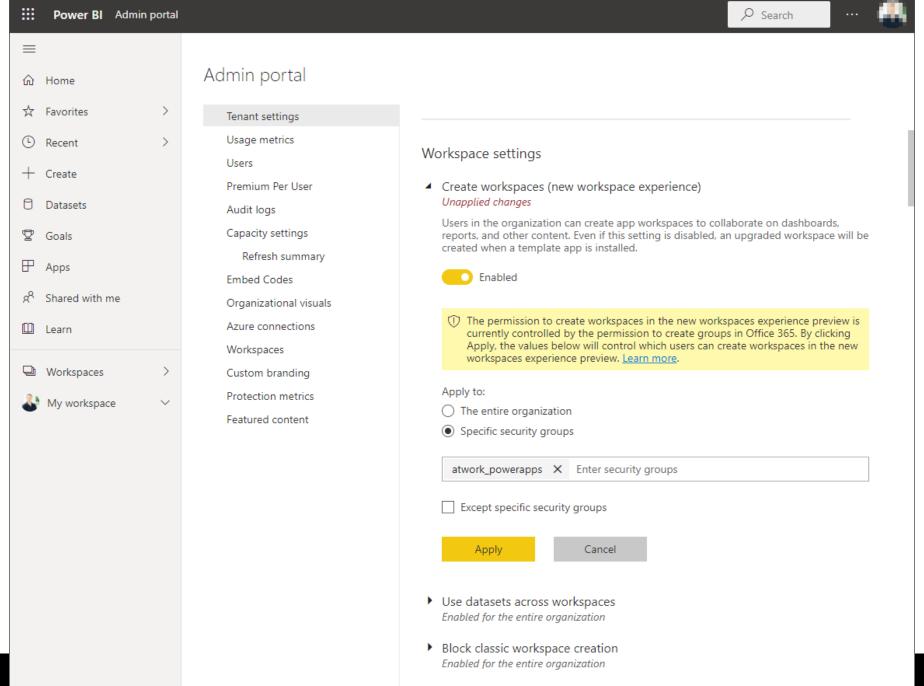
- Power Platform environments protect data using encryption at rest
- Define general and group-bases environments permissions
- Define allowable / restricted connectors
- Define DLP policies



# Tenant level analytics







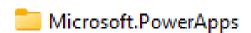


# Power Apps & Automate When to use what?

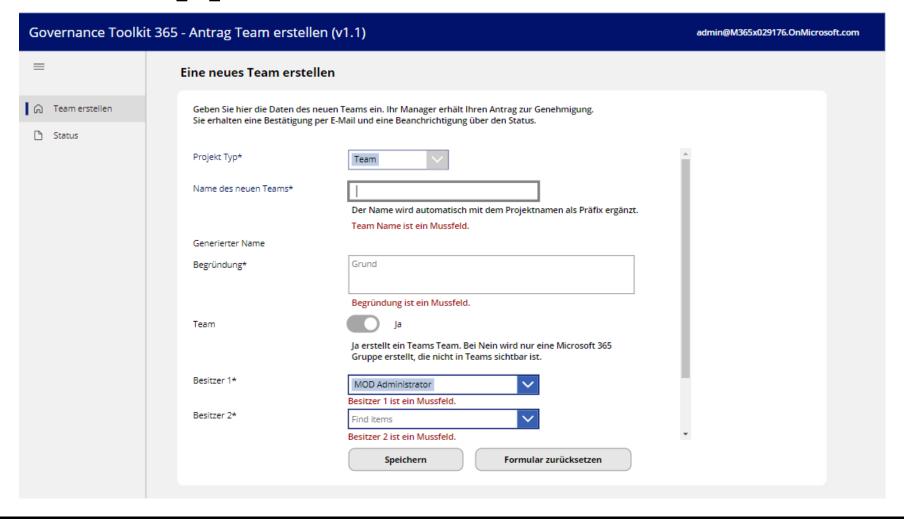
Best practices #2



# What is a Power App



o manifest.json





# When to use Power Apps



Access

Work account or MSA Every user must have a license

Standard Connectors

SharePoint, OneDrive, Excel, Outlook, Azure AD, etc. Records < 500

Simple apps

Not too much screens & controls Not too complex: dependencies ...

Offline scenarios!

Guidance

Support your users with rules, training & best practices



Device Order









ΗP

EliteBook

1049

ΗP

ProBook

499

Samsung

Series 9

1599.99

Microsoft

Surface Pro

999

John.Doe@mycompany.org

Order

Back

# When NOT to use Power Apps



Access

External users
No license

Premium Connectors (key users)

HTTP, Azure SQL, SAP, Custom Connectors, Third party,... Records > 500

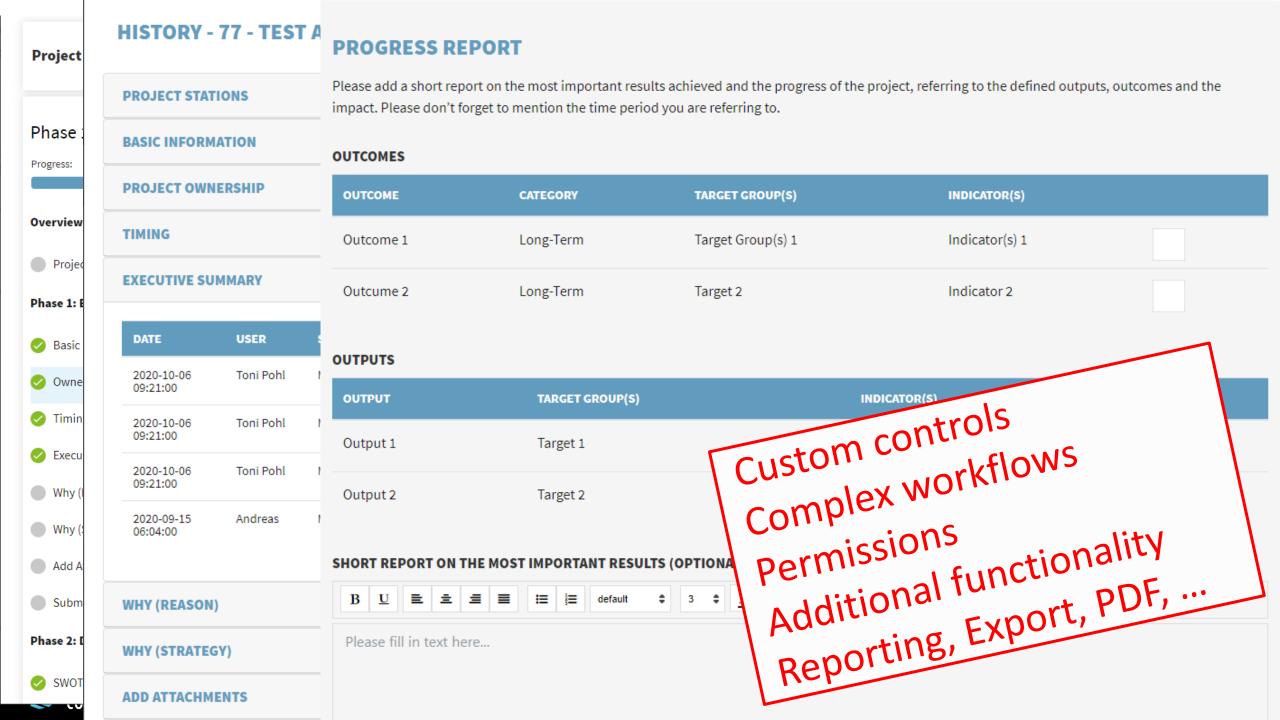
Complex apps

Many screens & controls
Dependencies, Permissions

Performance

Power Apps are no native apps...





### When to use Power Automate



Usage

Users have a license coming with their "Ex" license assignment
Using the M365 connectors

Personal scenarios

Get data from another source into M365 or vice versa Automate personal workflows



### When NOT to use Power Automate



Licenses

No Power Automate licenses
HTTP & enterprise connectors

Organization or Department scenarios

Use Azure Logic Apps for "organization" tasks
Require HTTP connections
Pay per use in Azure = leave budget for personal flows

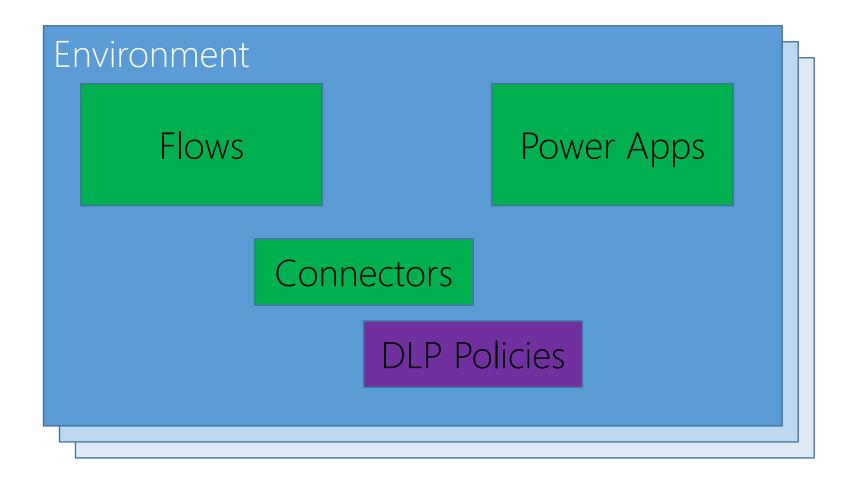


# Best practice #3

Plan your environments

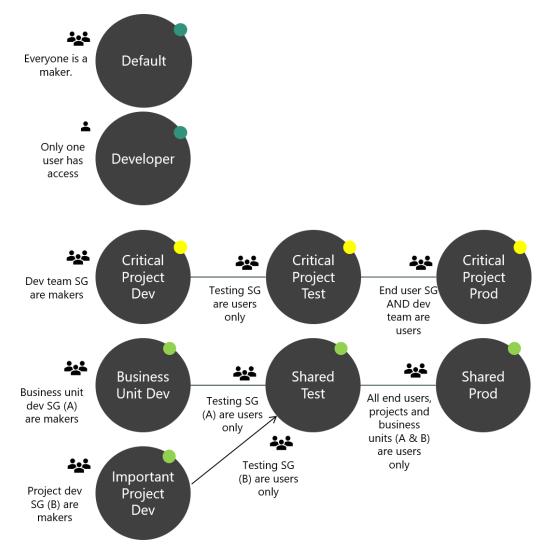


# The Power Platform management architecture





# Example environment strategy diagram



Communicate with everyone that **Default** is not for development of critical apps.

**Developer** environments are completely locked for any other user except the user who subscribed to the community plan. Applications can be moved out of the environment if needed.

**Dedicated** dev/test/prod environments for each critical application. Developers have Environment Maker access in the dev environment, but only user access in test and prod. End users only have end user access to the production solution so no one can modify the applications.

**Shared** test/prod environments for important but medium complex apps can be shared between multiple projects or business units.

Individual projects and business units should always have their own development environment to protect data. End users only have basic user access to solutions and data in production environments.

Critical project Individual project Personal productivity apps



# Best practices #4 – Configure Data loss prevention policies (DLP)

#### DLP

 DLP policies enforce rules for which connectors can be used together by classifying connectors as either Business or Non-Business.

#### Business

 If you put a connector in the **Business** group, it can only be used with other connectors from that group in any given app or flow.

#### Block

 Sometimes you might want to block the usage of certain connectors altogether by classifying them as **Blocked**.



# Best practices #5 (Must Have)

- Center of Excellence (CoE)
- aka.ms/coestarterkitdownload
- aka.ms/coestarterkit



# Center of Excellence (CoE)

aka.ms/coestarterkitdownload aka.ms/coestarterkit



# **CoE Starter Kit**



#### Overview

Define goals and expected outcomes of your CoE

- Overview
- Motivation
- Download



#### Admin

Gain insights into your Microsoft Power Platform adoption

- Set up
- Use
- Deep dive



#### Govern

Establish audit and compliance processes

- Set up
- Use
- Deep dive



#### Nurture

Accelerate your adoption by thriving with a community of makers

- Set up
- Use

...a collection of components and tools for adopting and supporting Microsoft Power Platform, with a focus on Power Apps, Power Automate, and Power Virtual Agents.

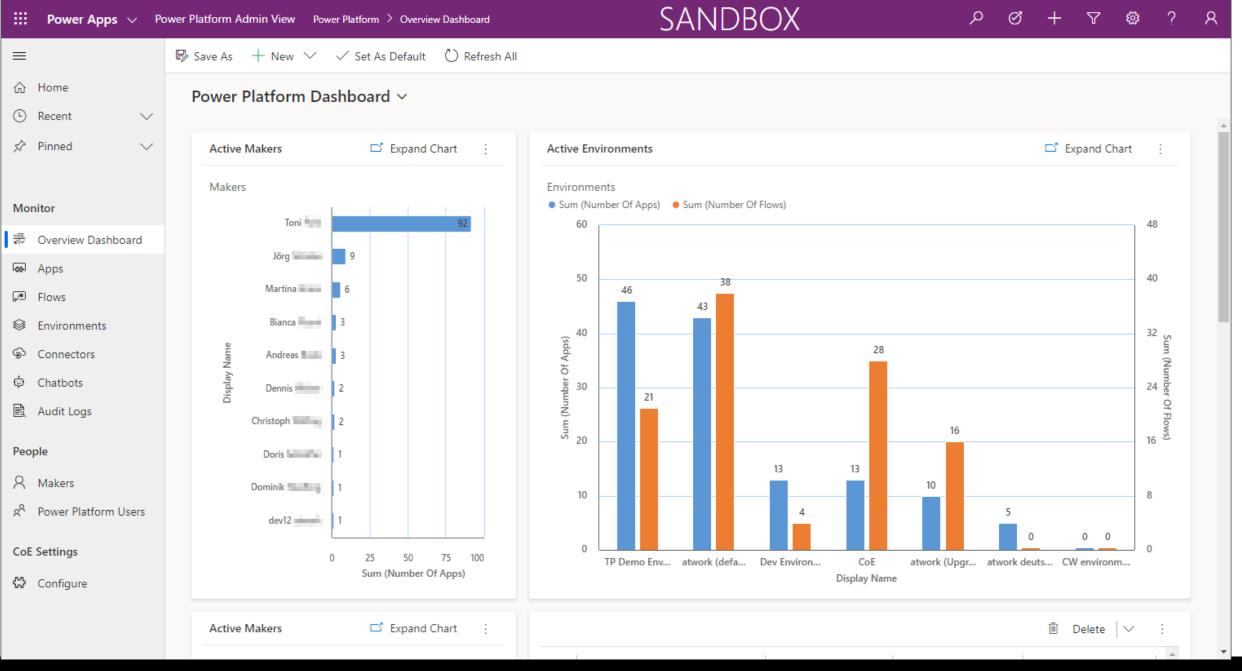


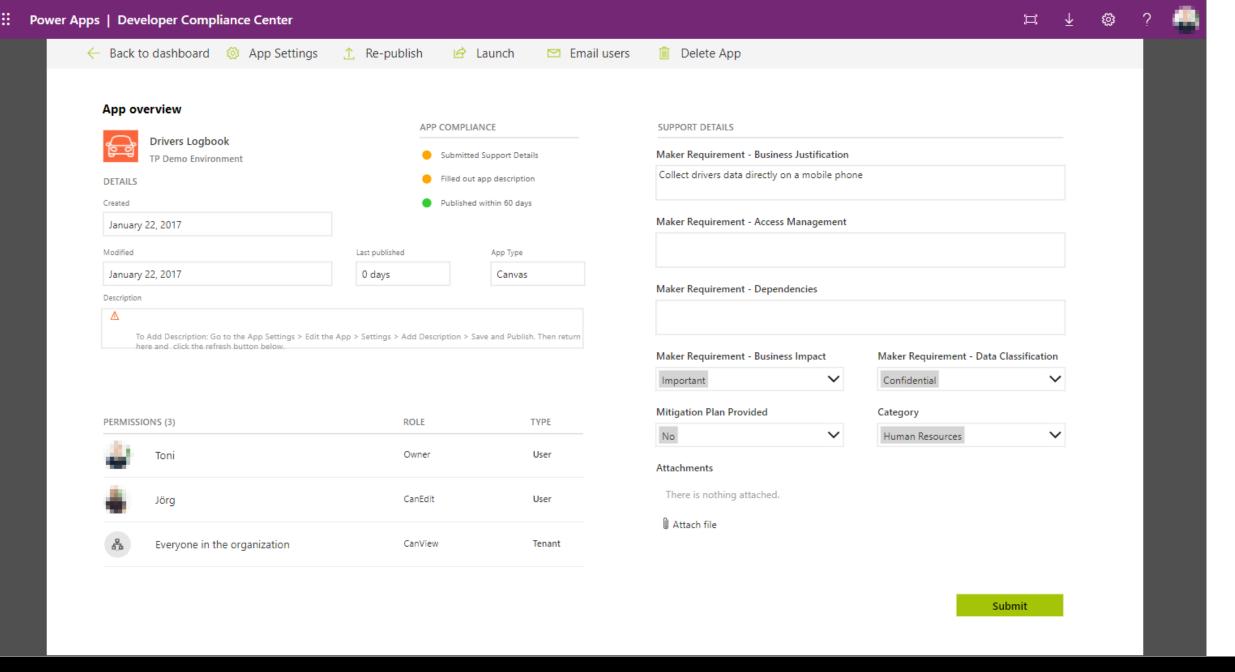
# Install CoE requirements

- https://aka.ms/CoeStarterKitDownload
- Microsoft Power Platform service admin, global tenant admin (or Dynamics 365 service admin)
- Power Apps Per User license (non-trial) and Microsoft 365 license
- Power Automate Per User or Per Flow license (non-trial)
- The identity must be email-enabled
- If you'd like to collect telemetry information, such as applaunches and unique users per app, the identity must have access to the Microsoft 365 audit log



#### **CoE Architecture** Developer CoE Power BI Compliance Admin dashboard Center Center **Environment** Custom apps or dashboards **Power Apps** Flows Data Connectors CoE process verse **DLP Policies** flows Archive **Notifications** unused apps & flows (orphaned apps, etc) Modern information technologies at the top event in Slovenia





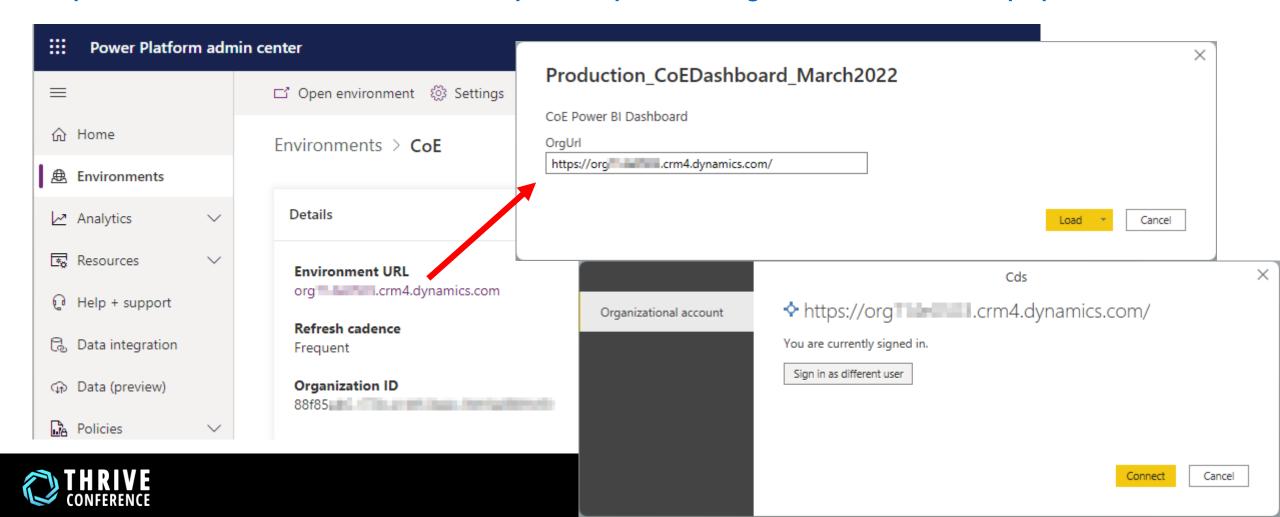
### **CoE Power Bl**

- https://docs.microsoft.com/en-us/powerplatform/guidance/coe/setup-powerbi
- Use the Production\_CoEDashboard\_MMMYY.pbit file if you have installed the CoE Starter Kit in a Production environment.
- Use the Teams\_CoEDashboard\_MMMYY.pbit if you have installed the CoE Starter Kit in a Dataverse for Teams environment. This version connects to Microsoft Dataverse using the TDS endpoint, therefore the TDS Endpoint has to be enabled for the environment: Manage feature settings.



## Connect Power BI to the CoE environment

https://docs.microsoft.com/en-us/power-platform/guidance/coe/setup-powerbi



# **CoE Upgrade**

- https://docs.microsoft.com/en-us/powerplatform/guidance/coe/after-setup
- "We recommend upgrading at least every three months."
- https://github.com/microsoft/coe-starter-kit



# Automation of the Power Platform with PowerShell

Best practices #6

Automation of the Power Platform & Power BI governance is possible with PowerShell (& API)

Note: Power BI is not covered in the CoE



```
▶ 🖟 🗆 …
≥ modify-app-roles.ps1 × ■ apps.csv
                                        ≥ login.ps1
 ≥ modify-app-roles.ps1 > ...
       # modify-app-roles.ps1
       Get-AdminPowerAppEnvironment | ft
       #$environment = Get-AdminPowerAppEnvironment -Default
       $environment = Get-AdminPowerAppEnvironment -EnvironmentName 'a19c40e9-731d-4338-aa9e-c83c502185d8'
        $environment
   9
       # Senvironmentid = Senvironment.Internal.id
  10
       # 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"
  14
  15
       $apps = Get-AdminPowerApp | Where-Object {$ .EnvironmentName -eq $environmentid }
  16
       # $apps | Format-Table -Property DisplayName, CreatedTime, EnvironmentName
       $apps | ft
  18
       $apps | export-csv .\apps.csv -Delimiter "," -Encoding UTF8 -NoTypeInformation
       $apps.count
  20
  21
  22
       # AppName
       $myapp = $apps | Where {$_.DisplayName -eq "DeviceOrder2" }
  24
       $myapp.AppName
  25
       # Get the permissions for a specific app
  26
  27
       # Get-AdminPowerAppRoleAssignment (previously Get-AdminAppRoleAssignment)
       Get-AdminPowerApp -AppName $myapp.AppName -EnvironmentName $environmentid
  28
             Get-AdminPowerAppRoleAssignment
  29
             Select PrincipalDisplayname, PrincipalObjectId, RoleType, AppName, EnvironmentName
30
            ft
  31
  32
       # Add a user. We need the UserID from Azure AD.
  33
       # BiancaP
       $userid = "ffc33f12-5f31-4fff-a1c1-60ddd3d617d3"
  36
 TERMINAL PROBLEMS (7) OUTPUT DEBUG CONSOLE
                                                                                                                                   + II iii ^ ×
                                                                                                             2: PowerShell Integrater >
```

PS C:\TFSRepo\Session\CoE> Write-Output "Environment ID: \$environmentid" Environment ID: a19c40e9-731d-4338-aa9e-c83c502185d8 PS C:\TFSRepo\Session\CoE> □

Home > Logic apps > CoE-Report-PowerApps > **Logic Apps Designer** 🖫 Save 🔀 Discard 🕨 Run Trigger 🗸 👬 Designer 💔 Code view 📵 Parameters 🛅 Templates 🔁 Connectors 🔞 Help 🕦 Info 100% 0 Recurrence Initialize variable List rows For each Create HTML table

Send an email (V2)



# Summary: Plan your governance



#### Phase 1: Analyse, Planning, Controlling

- Monitor Power Apps and control new solutions
- Architecture, License and Security
- ppac, Environments, Connectors, Common Data Services, Data Loss Prevention (DLP)
- Define roles and responsibilities



#### Phase 2: Use tools

- Tools like PowerShell, CoE, or 3rd party solutions: governancetoolkit365.com, etc
- 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 about the Business Requirements (app life cycle)



## References

- SharePoint PnP
- Microsoft 365 Groups creation
- Microsoft 365 Groups Governance
- Techcommunity: Governance Plan with Teams
- Susan Hanley: Governance Questions for SharePoint
- Governance Toolkit
- Microsoft 365 Governance Resources
- CloudHub
- Training: Microsoft Teams Governance
- Groups Architecture Poster
- Excel Sheet
- www.GovernanceToolkit365.com

















