



Power BI for the Enterprise

What should you think about...?



Marc Lelijveld

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Consultant with a specialization in Power BI at Macaw Netherlands. On daily bases I am working on project bases for the bigger international companies. I like to share my thoughts and enthusiasm about Power BI and related Microsoft Product in public speaking & user groups.

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in /in/MarcLelijveld

🌐 data-marc.com

The image shows a page titled "POWER BI CHEAT SHEET" from the "BI SUMMIT" series, dated March 2015. The page is divided into sections for "Power Query" and "Data Model".

Power Query (Top Left):

- 1. Give every step a meaningful name and merge steps if of the same type, for better manageability.
- 2. Use generic and informative column names so it is also meaningful to others (Q&A).
- 3. Always use the right type for all columns to make sure the model is smaller and thus better performing.
- 4. Always use the right type for your report, Power Query can't infer the type of a query.
- 5. Always use the right type for fact and measure changes in your data model.
- 6. When using Power Query, always use the right type for the source, when using Power Query, measure types are merged with fact types.
- 7. You can't use Power Query to change the type of a column, so make sure you do this before you start.
- 8. Make sure your queries are properly grouped before they are used in the source.
- 9. Make sure your queries are properly grouped before they are used in the source.
- 10. Make sure your queries are properly grouped before they are used in the source.
- 11. Make sure your queries are properly grouped before they are used in the source.
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- 30. Make sure your queries are properly grouped before they are used in the source.
- 31. Make sure your queries are properly grouped before they are used in the source.
- 32. Make sure your queries are properly grouped before they are used in the source.

Data Model (Top Right):

- 1. Always use a reasonable Data table in your data model. It is on a Data Table.
- 2. Use calculated columns when needed, but try to use Power Query. This improves clarity and management.
- 3. If you have multiple tables in your data model, consider using multiple files for a clear separation.
- 4. Assign specific properties to PPT, PPS, PP and other presentation files for a clear distinction.
- 5. Make sure that all relationships are bidirectional (e.g. Dimension) in the Data Model.
- 6. Make sure that all relationships are bidirectional (e.g. Dimension) in the Data Model.
- 7. Make sure that all relationships are bidirectional (e.g. Dimension) in the Data Model.
- 8. Make sure that all relationships are bidirectional (e.g. Dimension) in the Data Model.
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- 30. Make sure that all relationships are bidirectional (e.g. Dimension) in the Data Model.
- 31. Make sure that all relationships are bidirectional (e.g. Dimension) in the Data Model.
- 32. Make sure that all relationships are bidirectional (e.g. Dimension) in the Data Model.

Code Examples (Bottom Left):

```
let
    Source = "C:\Users\jeroen\OneDrive - Macaw\Power BI\Power Query\My first Power Query\My first Power Query.xlsx",
    Data = Excel.Workbook(Source, null, true),
    Data = Data[Sheet1],
    Data = Data{0}[Table1]
in
    Data
```

Resources (Bottom Right):

1. Power Query & Formula Reference: <https://msdn.microsoft.com/en-us/library/mt681084.aspx>
2. Practical Data Flow with successive expressions: <https://www.powerquery.us/>
3. Dynamically named table support: <https://msdn.microsoft.com/en-us/library/mt681084.aspx>
4. Use DAX Studio to analyze DAX expressions: <https://daxstudio.org/>
5. Power BI Data Model: <https://powerbi.microsoft.com/>
6. Show the best practices of your dataset: <https://bi-best-practices.com/>

I'VE GOT THE POWER BI

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Agenda

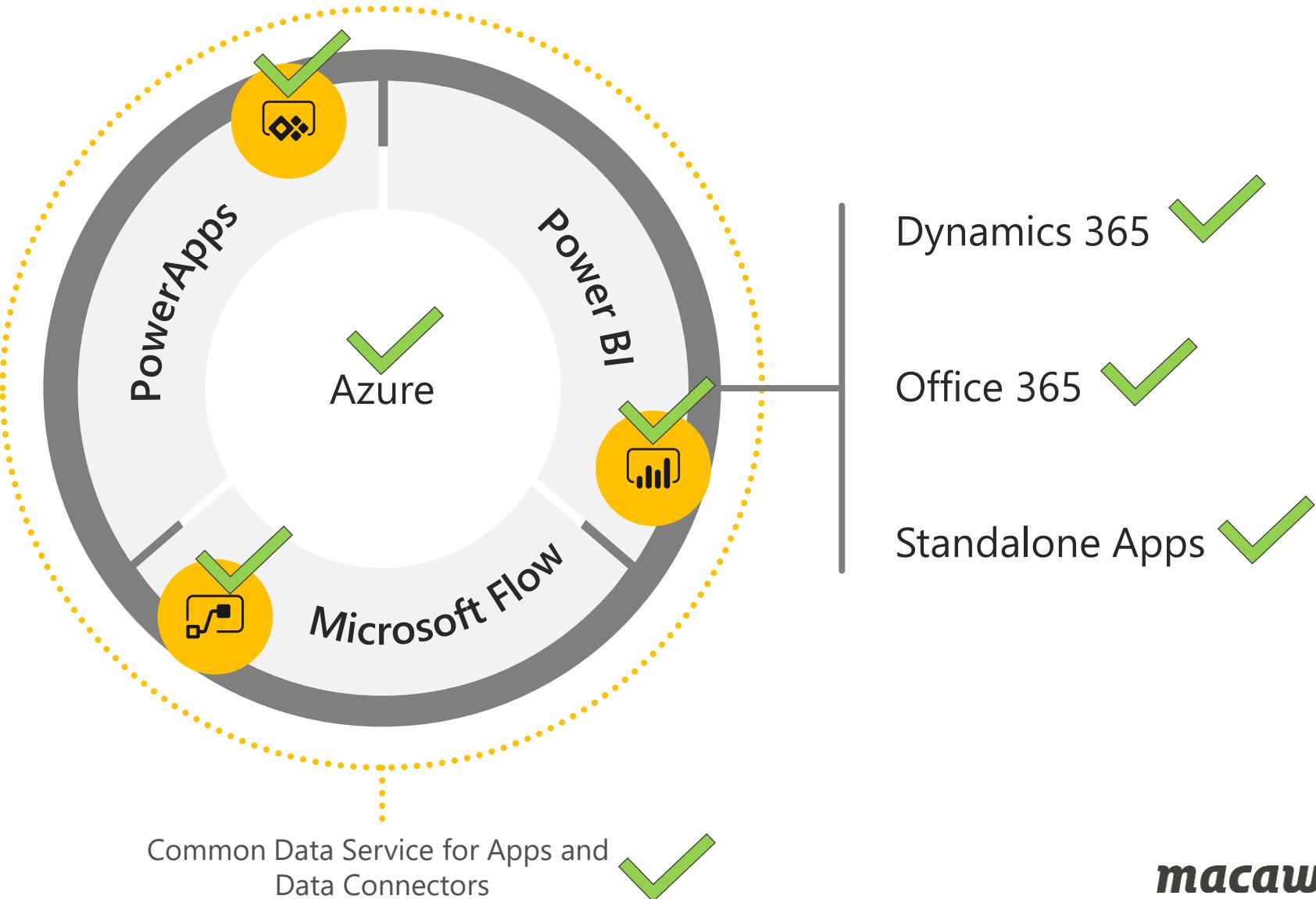
- Power BI for the enterprise
- Parameters for re-use
(Workshop)
- Application Lifecycle Management
- Power BI monitor
(Workshop)



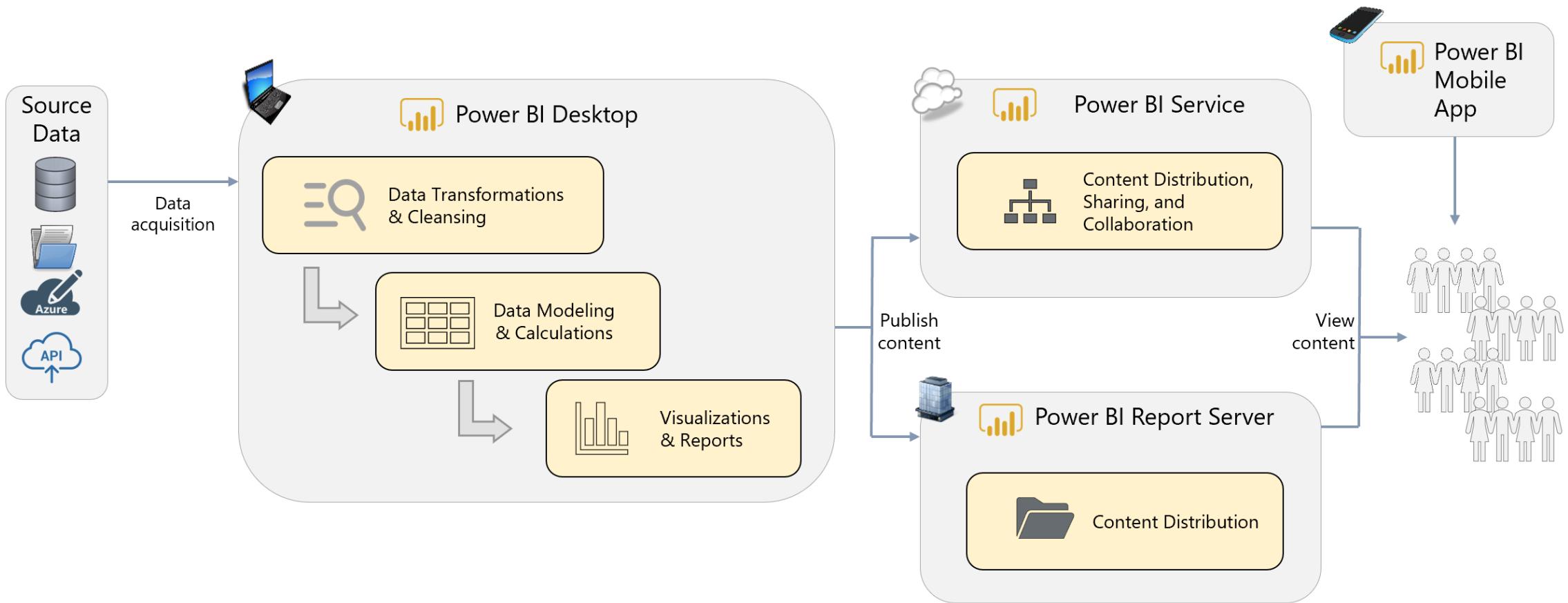
Power BI for the Enterprise

What should you think about...?

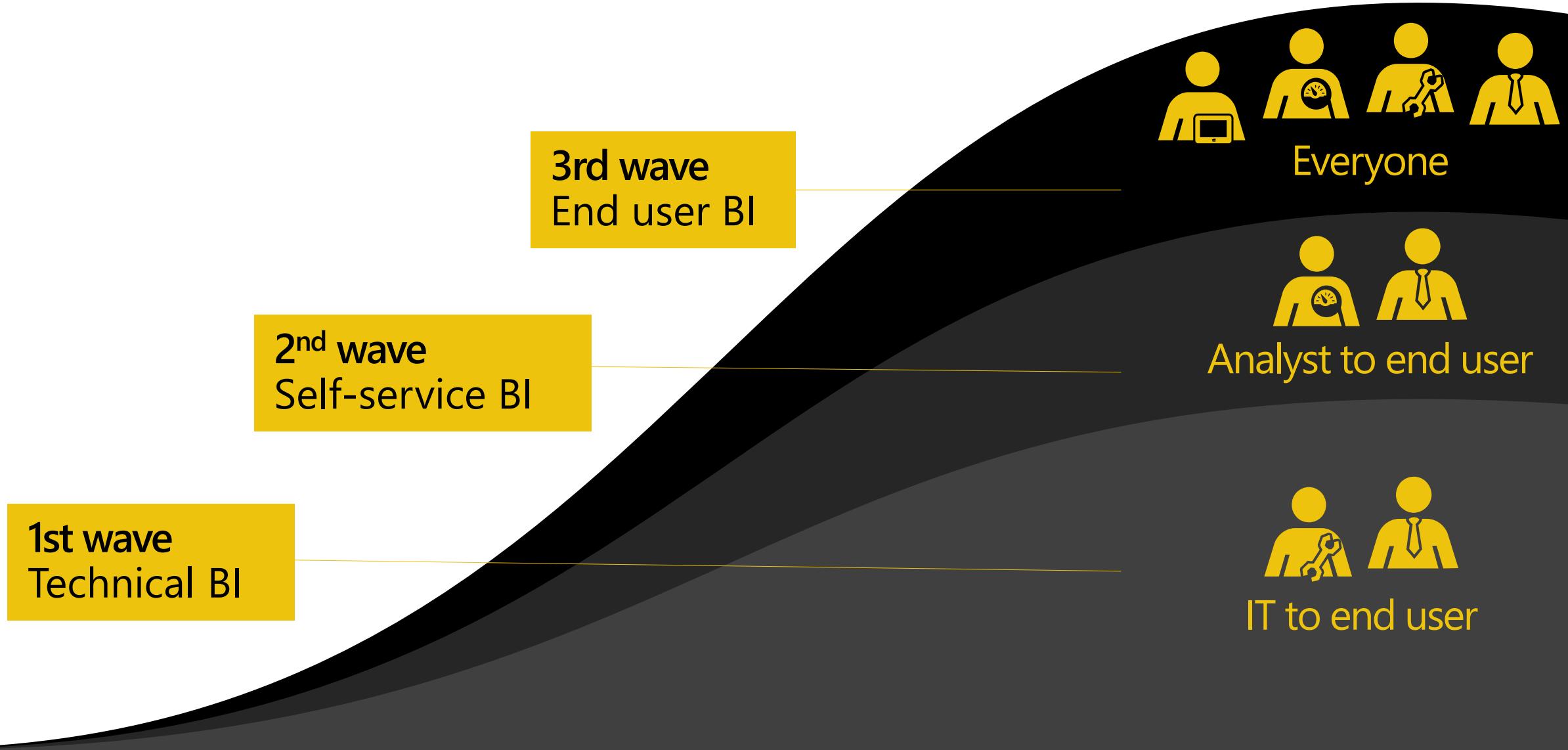
Power Platform



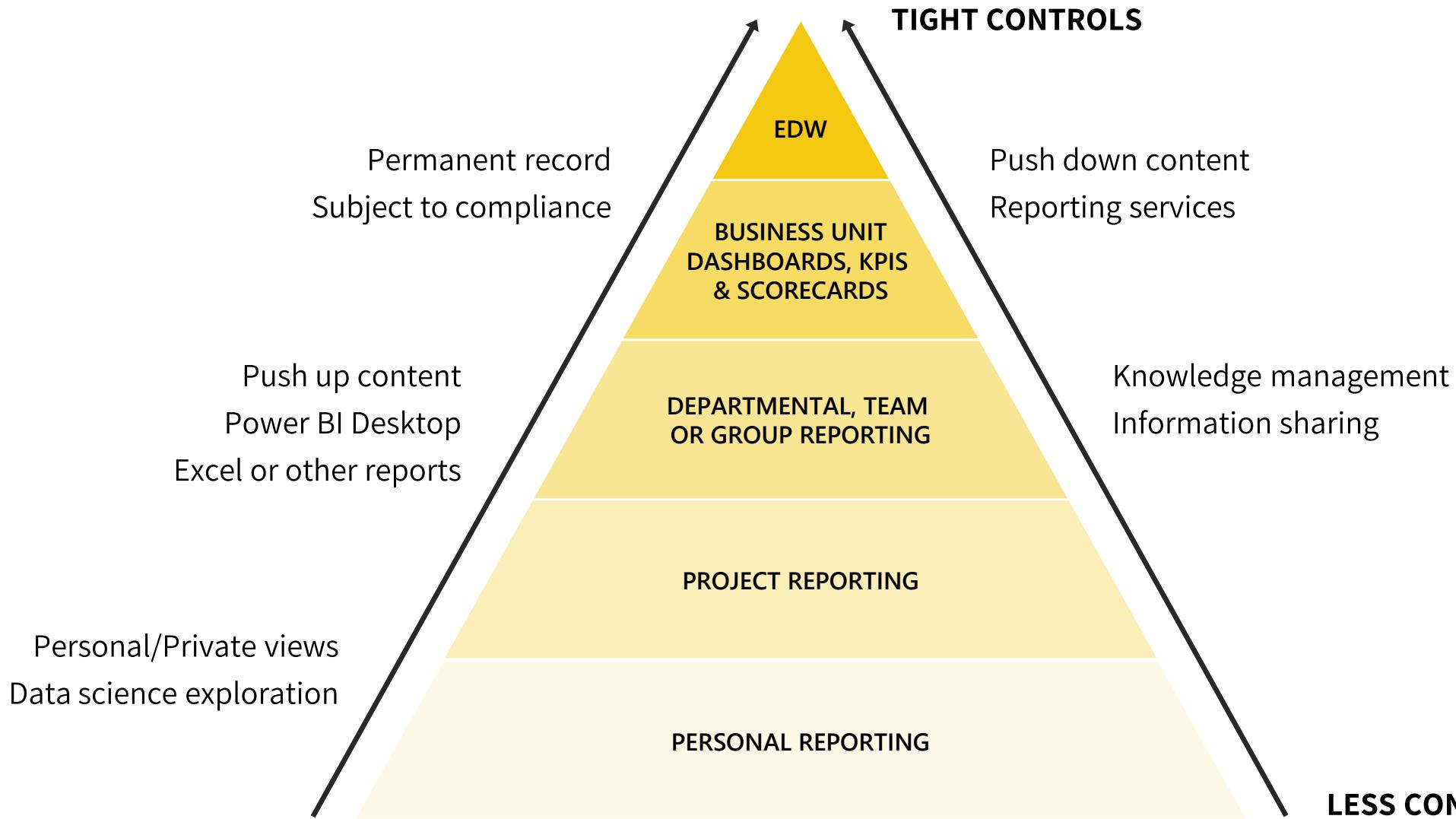
High level overview of Power BI



BI for everyone



Governance Model



Everyone engages with software



Implementing Power BI



imgflip.com

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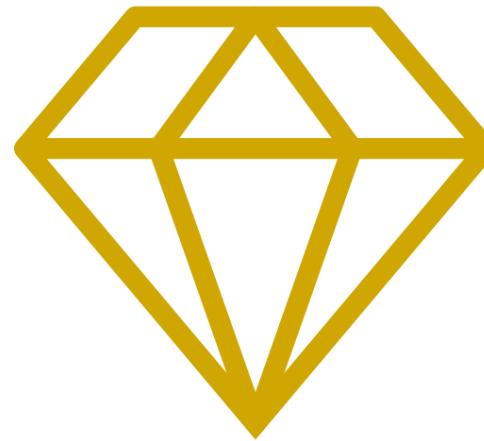
Licensing



Free



Pro

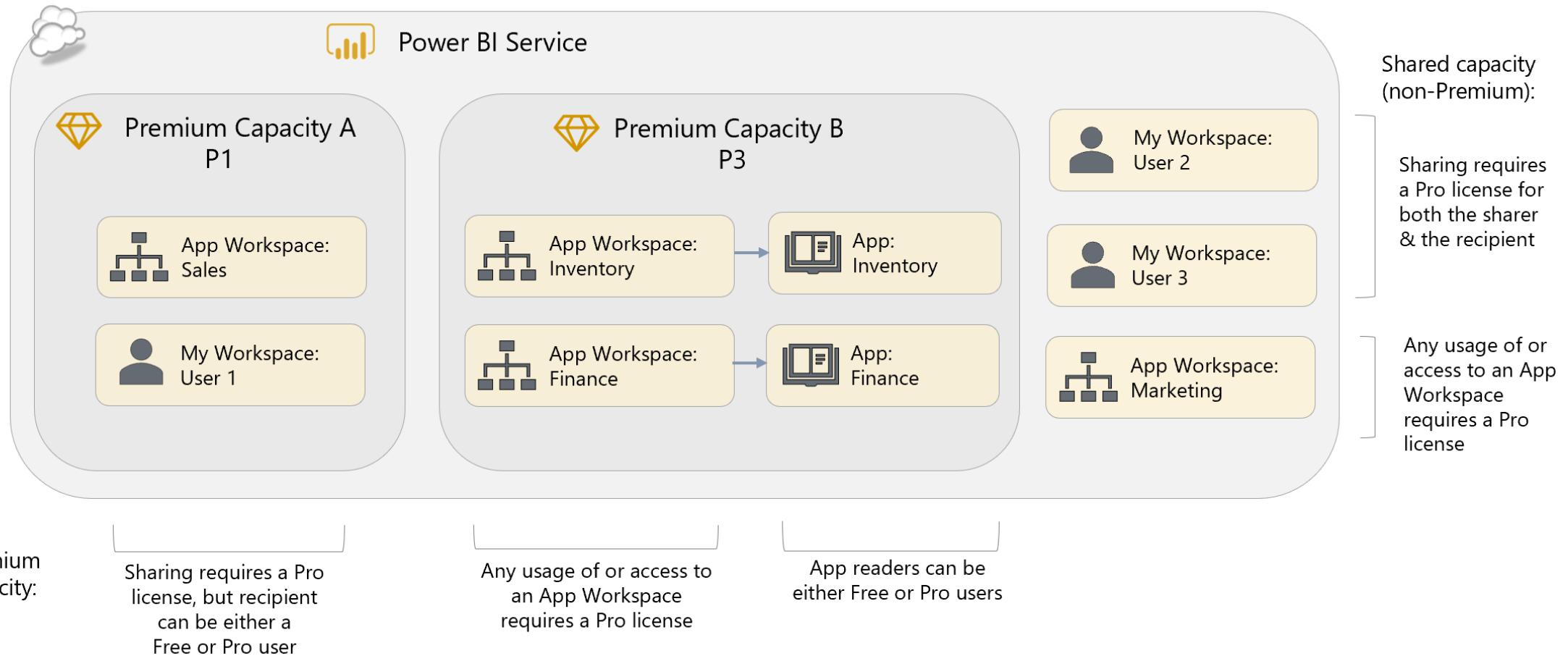


Premium

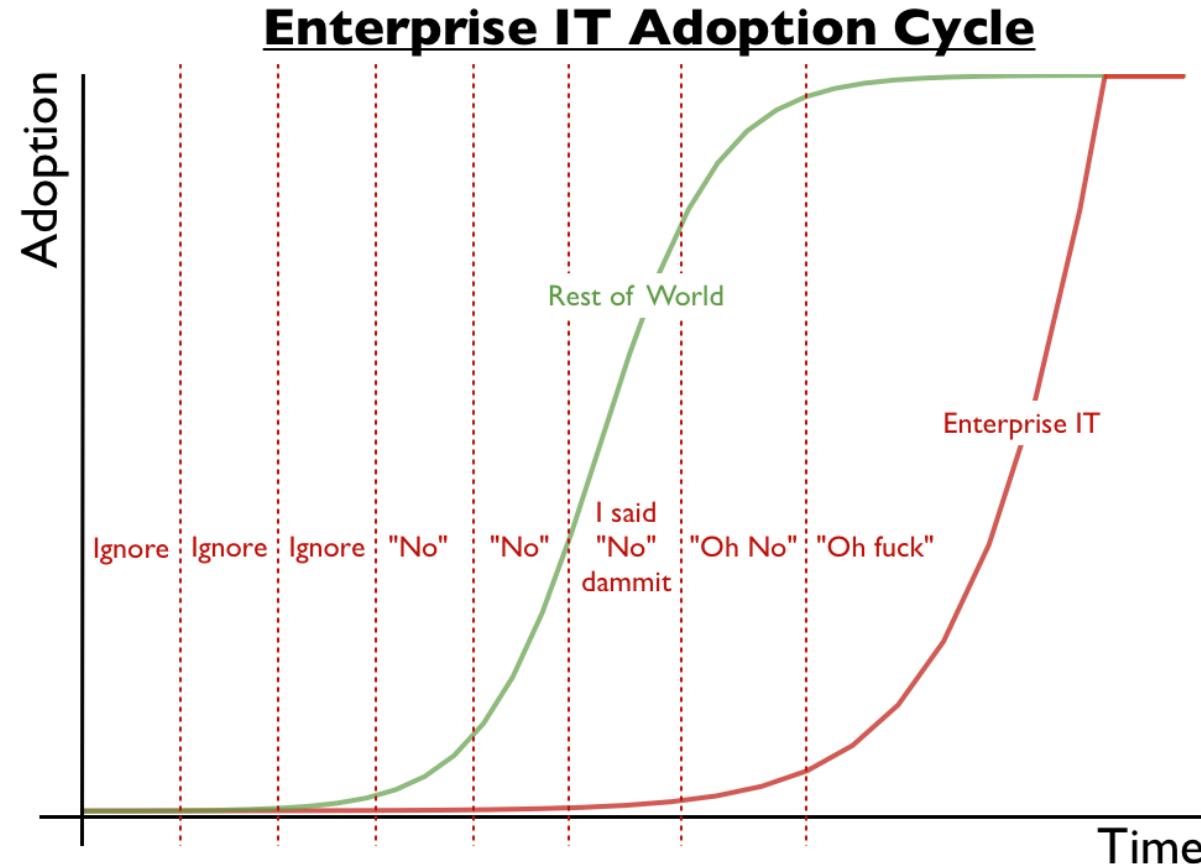


Embedded

Enterprise = premium?



Enterprise rollout



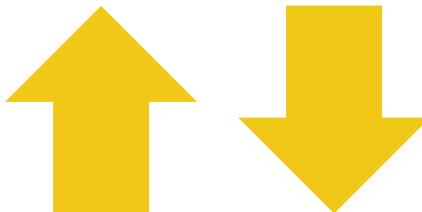
Delivery approaches

**Business-Led
Self-Service BI**



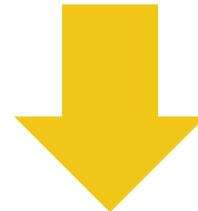
Bottom-Up

**IT- Managed
Self-Service BI**



Blended

Corporate BI



Top-Down

Guidance, support and expertise as a service

Best
practises

Training
&
Support

ALM
&
Monitoring

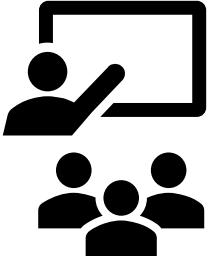
Grow
Scenario's

Power BI
Friends



Best practises

You are the expert



Use that to make your business users a hero



- Modelling standards
- Power BI standards (Query → Front-end)
- Naming conventions
- Security awareness (possibilities)
- Training (competences, skills)
- Templates
- Application Lifecycle Management
- Collaboration standards

Power BI Solution Categories

100% Business 0% IT	100% Business: <ul style="list-style-type: none">Reports build and managed by businessData models build and managed by businessNo direct connections to IT managed data sources
75% Business 25% IT	75% Business: <ul style="list-style-type: none">Reports build and managed by businessData models build and managed by businessDirect connections to IT managed data sources
50% Business 50% IT	50%-50% Business and IT: <ul style="list-style-type: none">Reports build and managed by businessData models build and managed by ITDirect connections to IT managed data sources
0% Business 100% IT	100% IT Managed: <ul style="list-style-type: none">Reports build and managed by ITData models build and managed by ITDirect connections to IT managed data sources

Exponential growth of content

Business-Led
Self-Service BI



Bottom-Up



Chuck
Finance



Rose
Human Resources



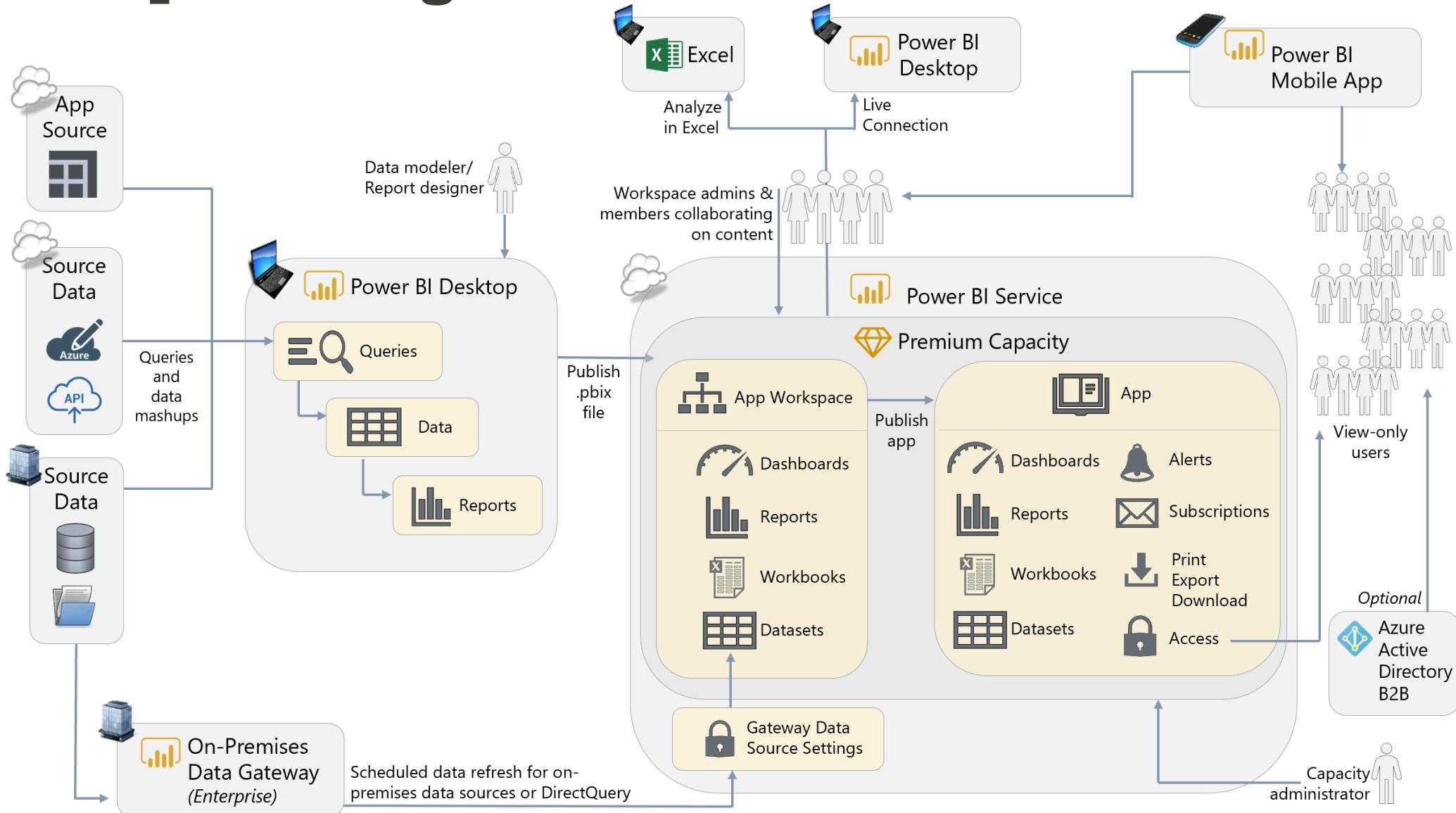
Jena
Marketing



Kasper
Engineer



Enterprise usage scenario



Re-use

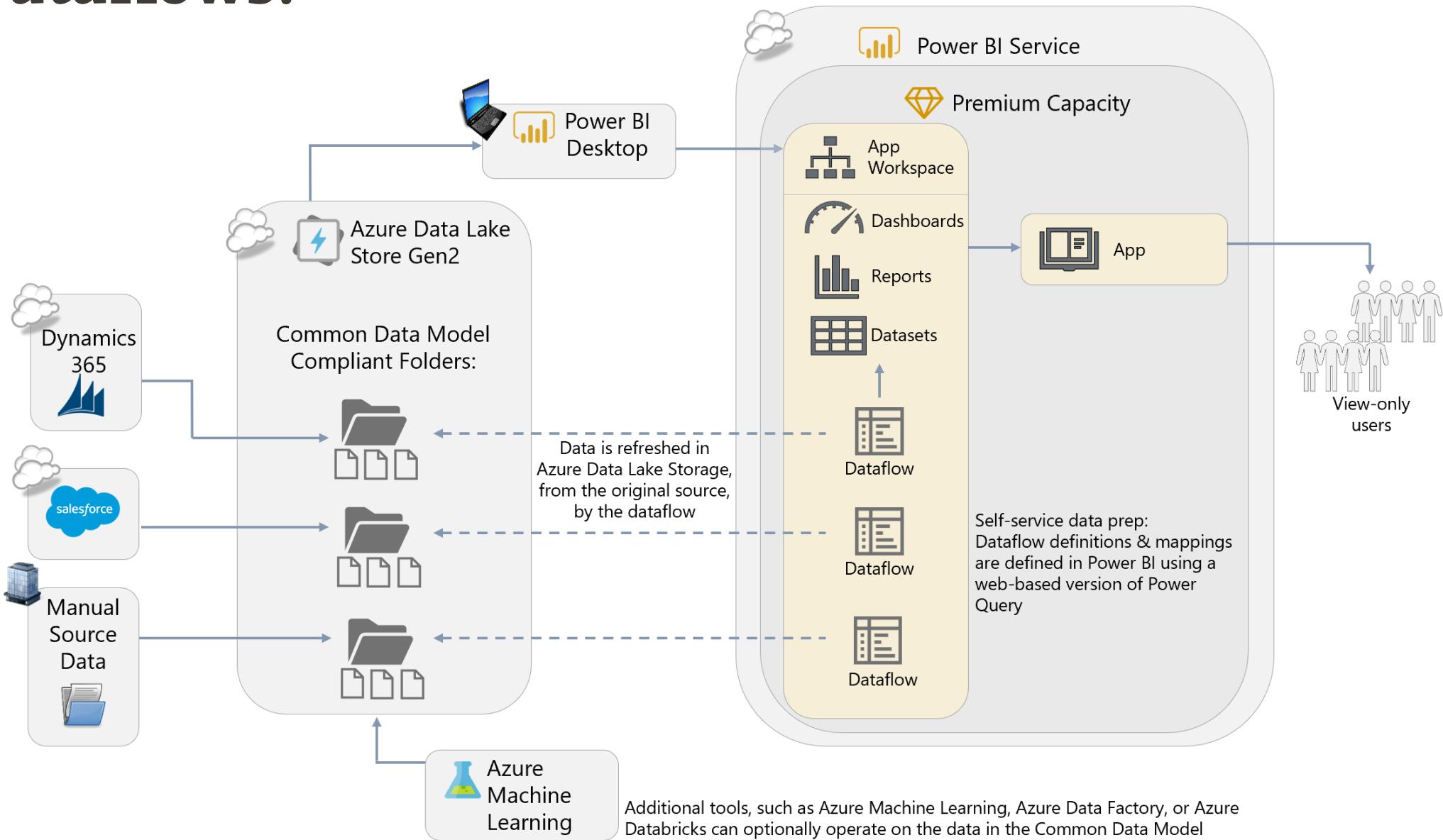
Select a dataset to create a report

All datasets

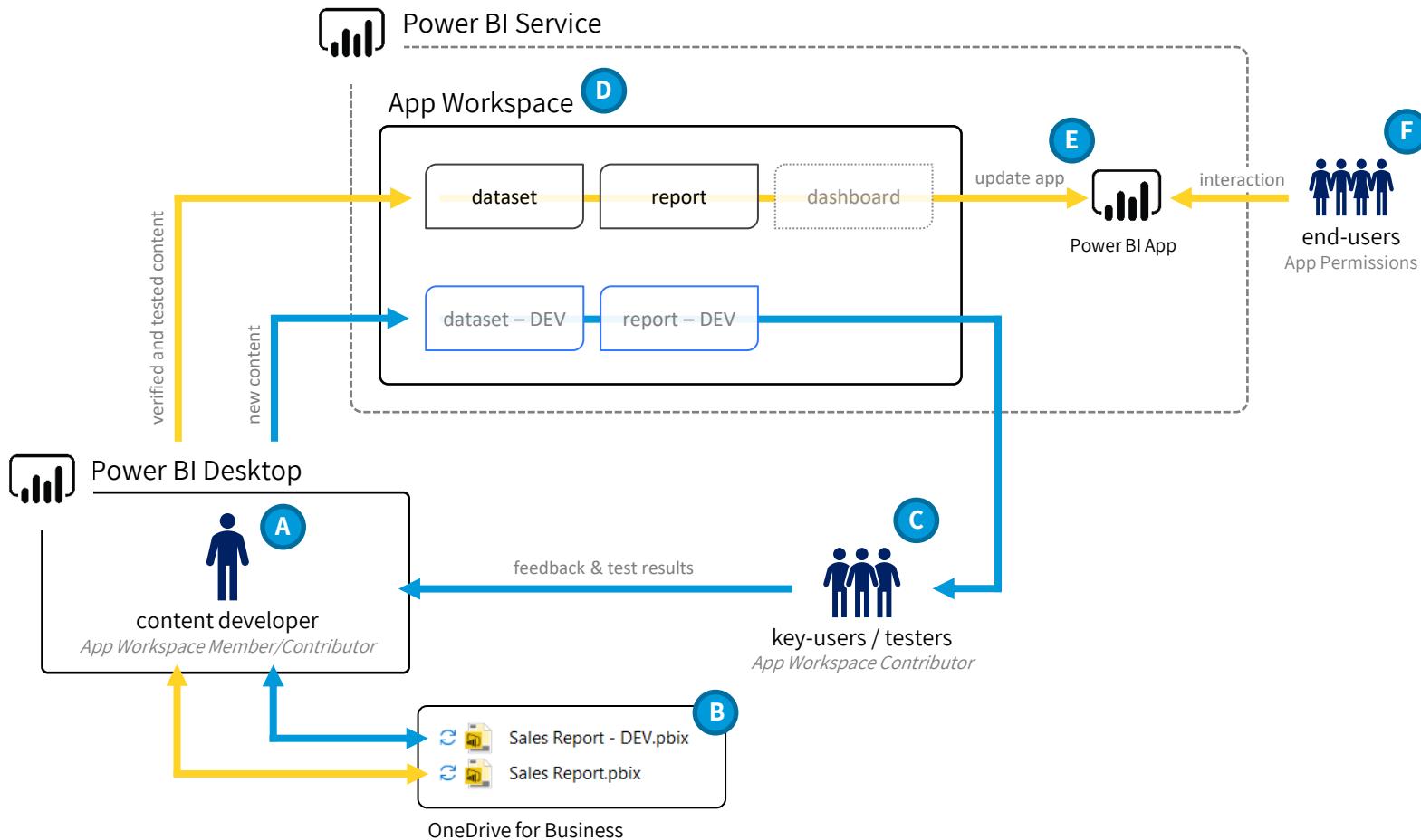
Name	ENDORSEMENT ↓	Owner	Workspace/App	Refreshed
Retail Analysis	Certified	Steve Myer	Retail	4 days ago
Customer Profitability	Certified	Susan Mailer	Customer	6/23/17
Vantage Global	Promoted	Lane Barnes	Vantage	3/3/18
IT Spend Analytics	Promoted	Ari Gold	IT	3 hours ago
Team Analytics	Promoted	Ana Smith	Analytics	7/12/18
Opportunity Analysis	Promoted	Lane Barnes	My Workspace	6/12/17
Retail		Lane Barnes	My Workspace	2 days ago
Procurement Analysis		Lane Barnes	My Workspace	7/22/18
Sales		Lane Barnes	My Workspace	1/24/17

OK Cancel

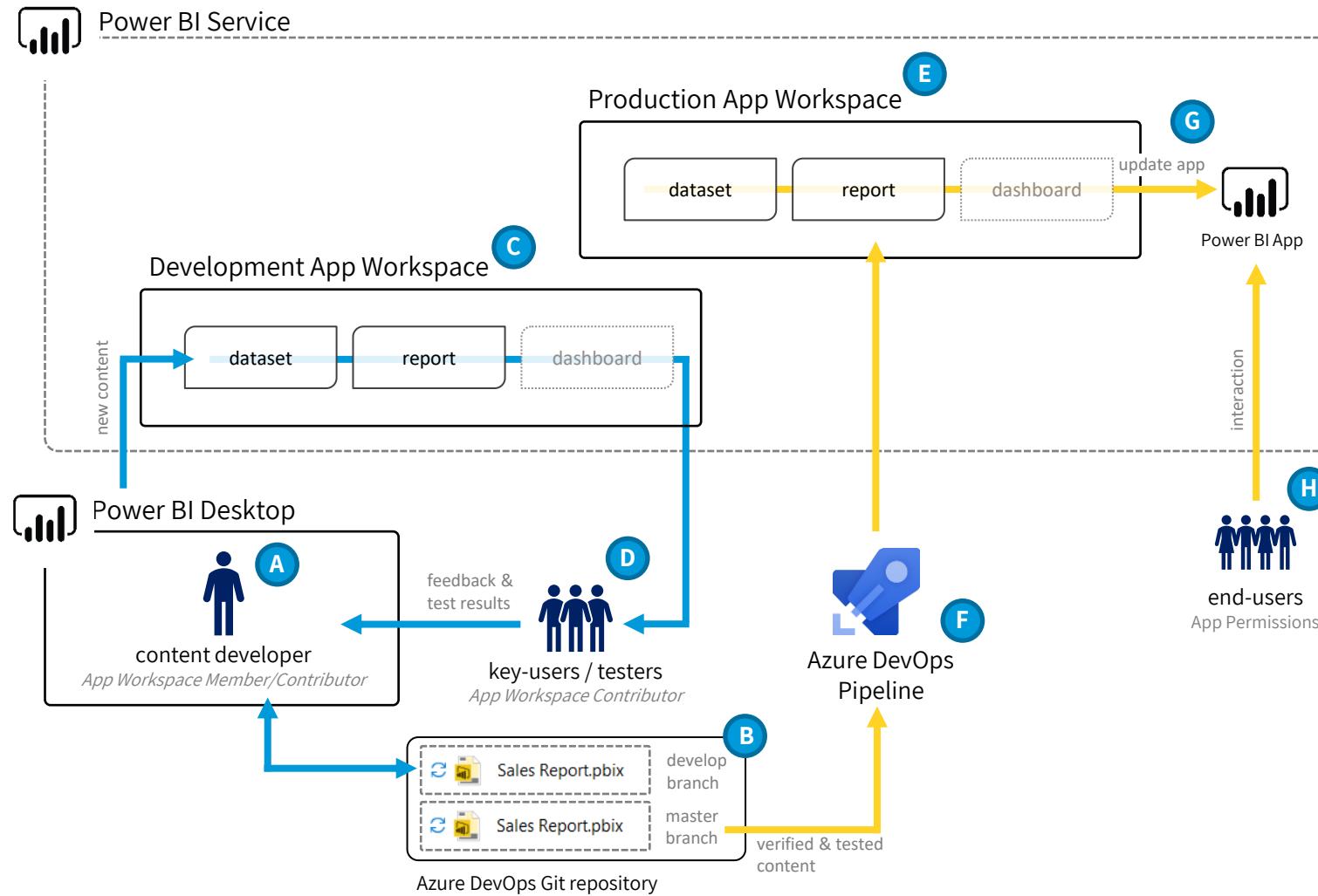
Dataflows!



Multi-Tier Lifecycle Management by Business Users



Multi-Tier Lifecycle Management by Business & IT



- A**: Report author uses Power BI Desktop to create content and publishes content to the Development App Workspace.
Requires a Power BI Pro license. Power BI Desktop should be installed via the Windows 10 Store where possible, to ensure automatic updates and a consistent version in the organization.
- B**: Collaboration and version history is taken care of using a Azure DevOps Git repository folder. Development content is promoted to the master branch using a pull request.
- C**: The Development App Workspace is used to continuously develop and improve the Power BI Solution. Dashboards are developed inside this Workspace.
- D**: Key-user accesses content in the App Workspace for verification and testing purposes. Uses the comments functionality of the App Workspace to provide feedback.
Requires Contributor role until a read-only Viewer role is available. Requires a Power BI Pro license.
- E**: The sole purpose of the Production App Workspace is to facilitate publishing the Power BI App.
- F**: An Azure Pipeline in Azure DevOps Services is used to implement the automated deployment of the Power BI file to the Power BI Service.
- G**: Power BI App is published or updated. Preferably 'Install app automatically' is used. Preferably a mail-enabled security group is used (Active Directory).
Requires Admin or Member role.
- H**: End-user accesses Power BI App. Uses the comment functionality of the App.

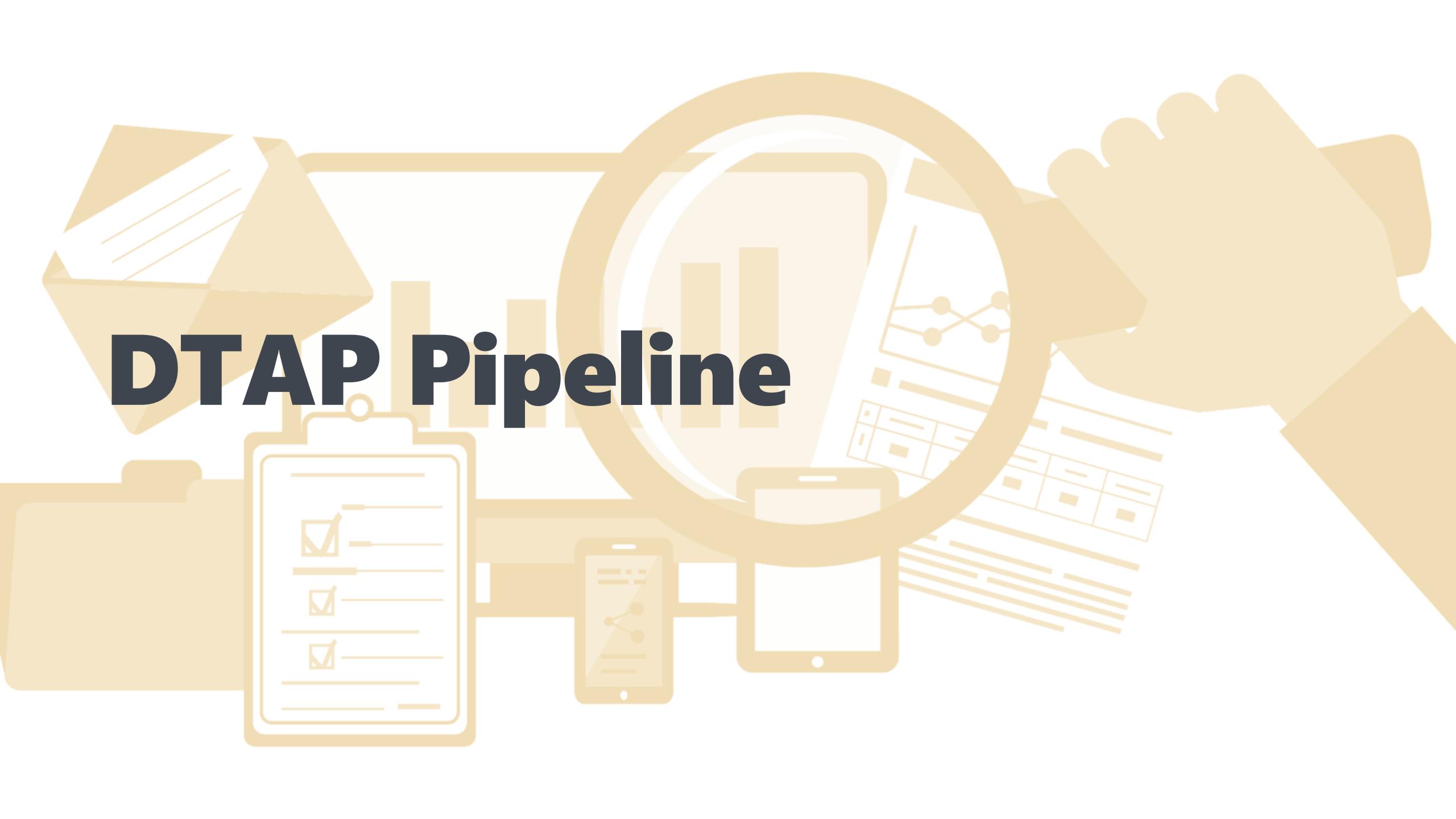




Use parameters

To add extra flexibility to your Power BI content

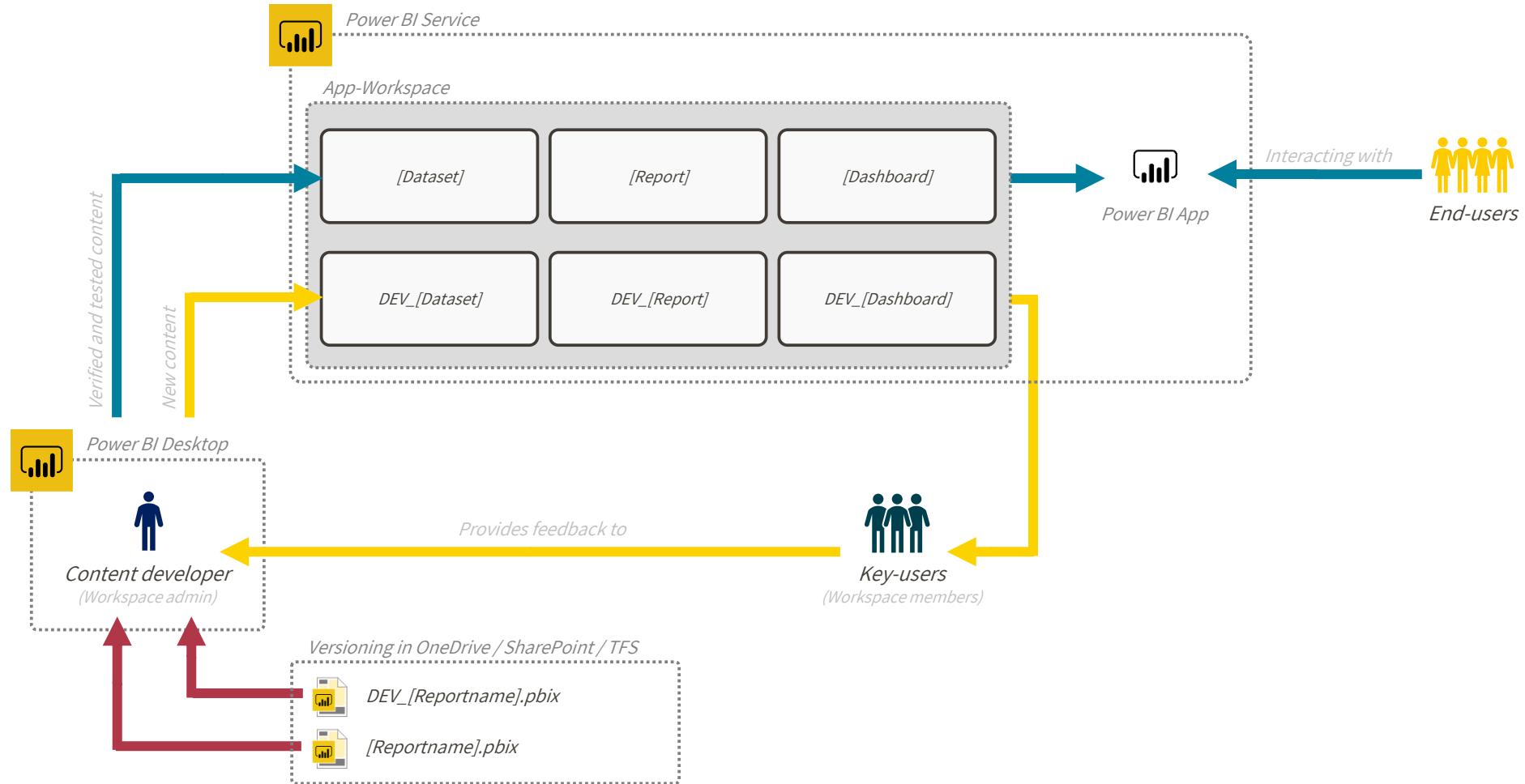
DTAP Pipeline



DTAP

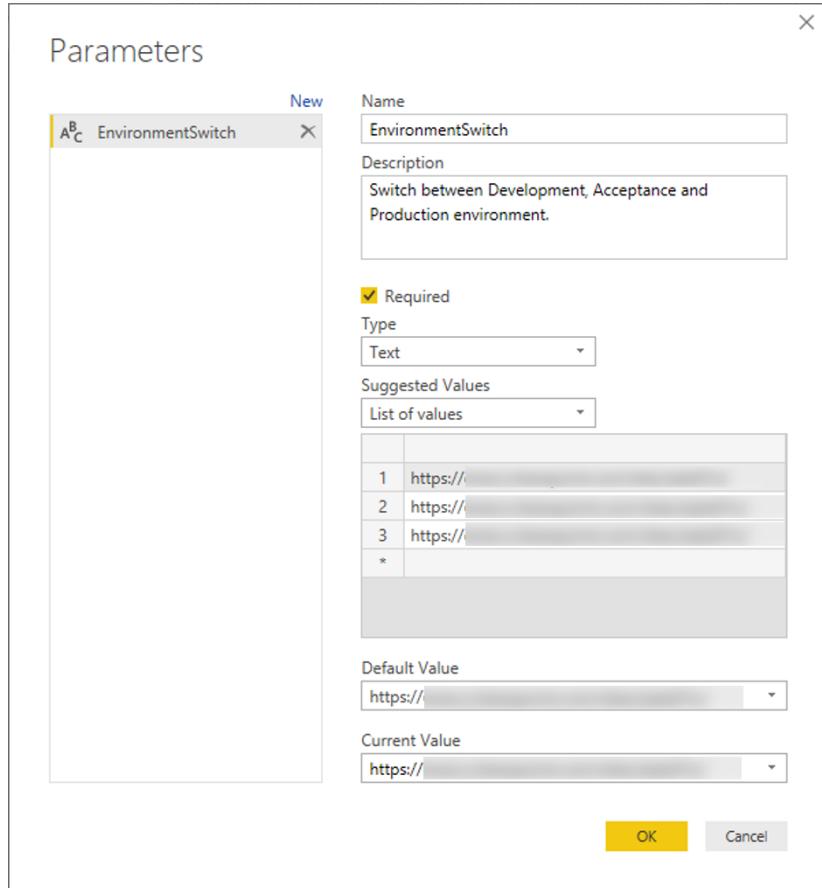


Power BI Deployment



Parameter settings

Desktop



Service

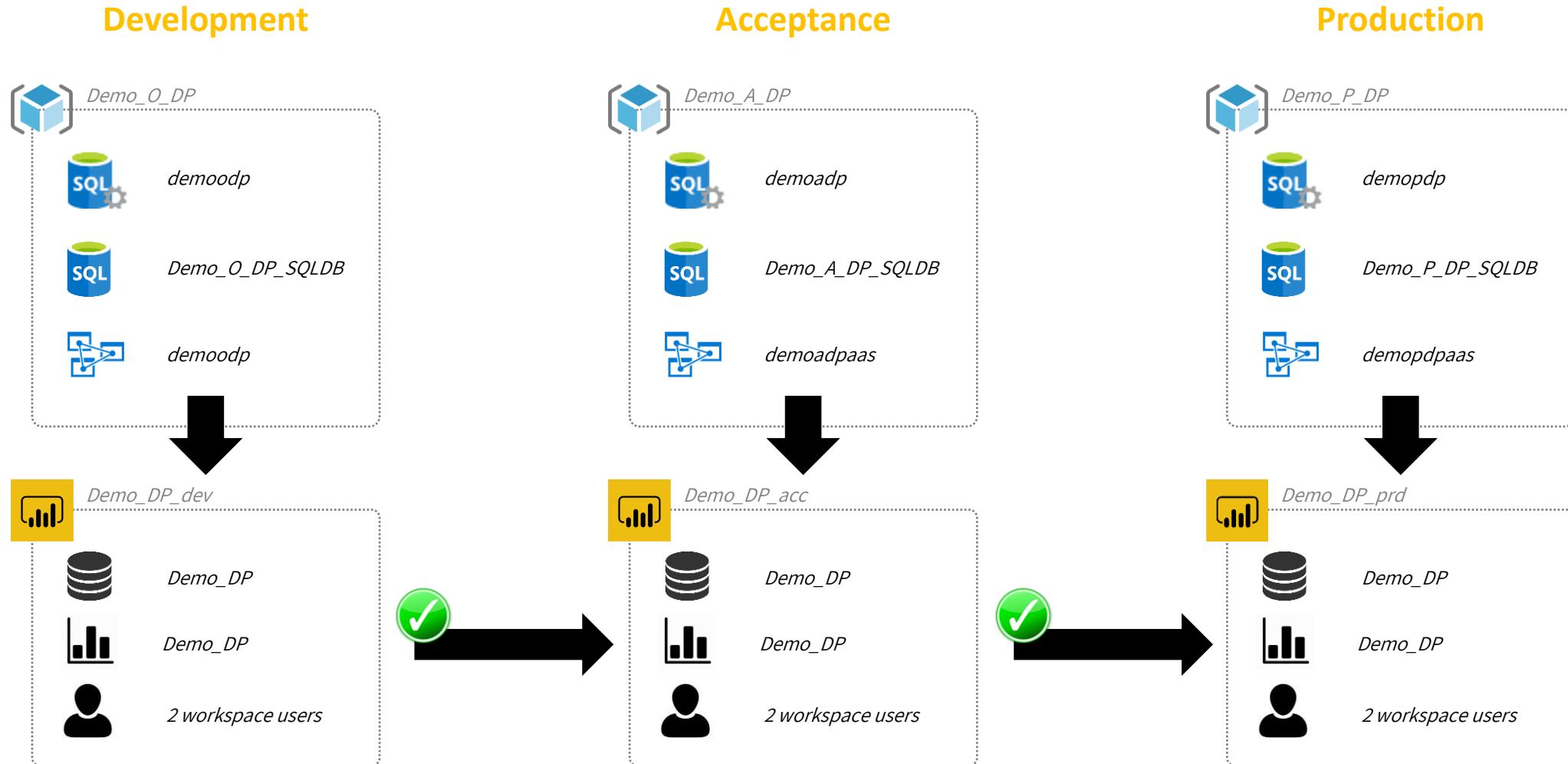
The screenshot shows the 'Settings for Parameterize Datasource' dialog box with the following details:

- Parameters**
 - EnvironmentSwitch**
Switch between Development, Acceptance and Production environment
Value: https://SomeSite.sharepoint.com/sites/Site01/
- SwitchFolderLocation**
Switchs folders
Value: C:\Users\Marcl\Documents\Study.xlsx

At the bottom are 'Apply' and 'Discard' buttons.

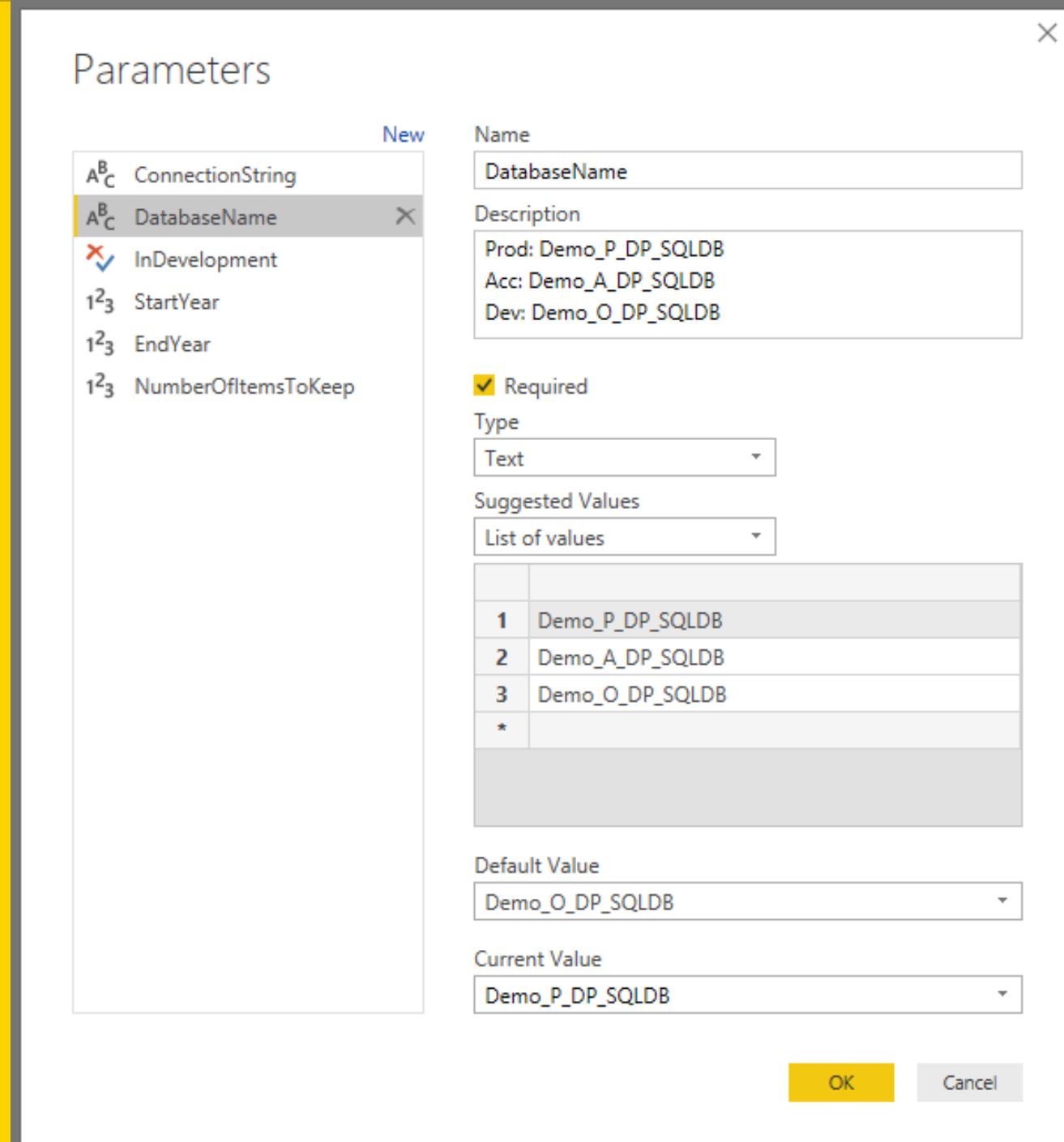
Below the main settings are sections for **Scheduled refresh**, **Q&A and Cortana**, and **Featured Q&A questions**.

Demo Context

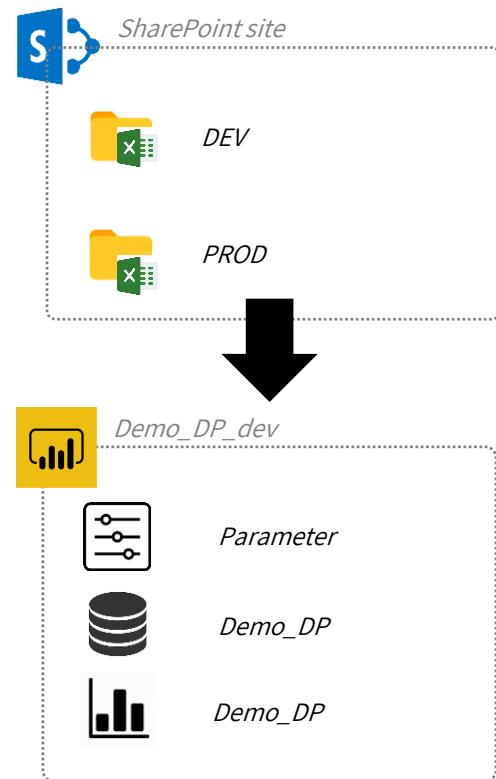


Demo:

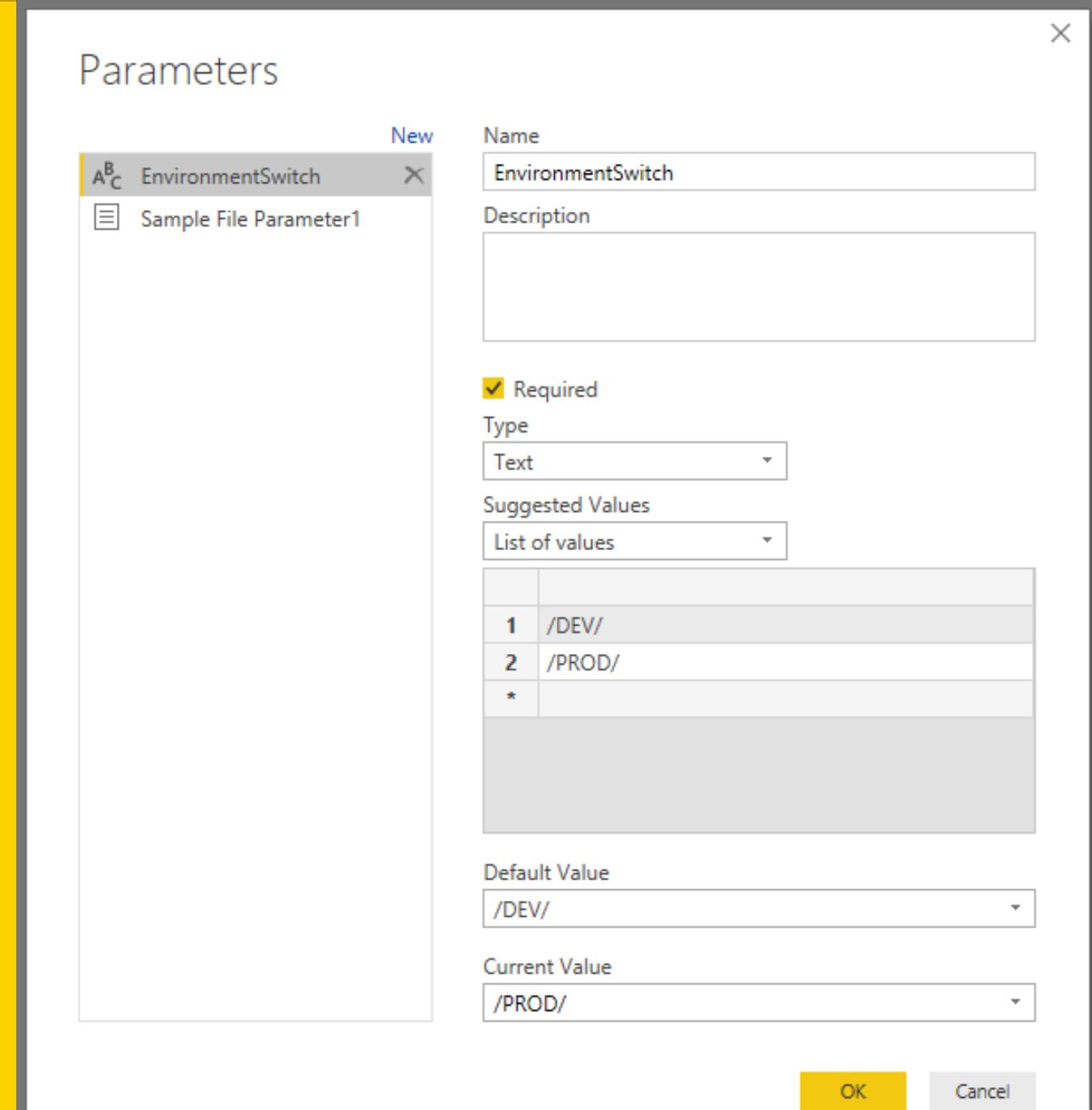
Change data source connection string

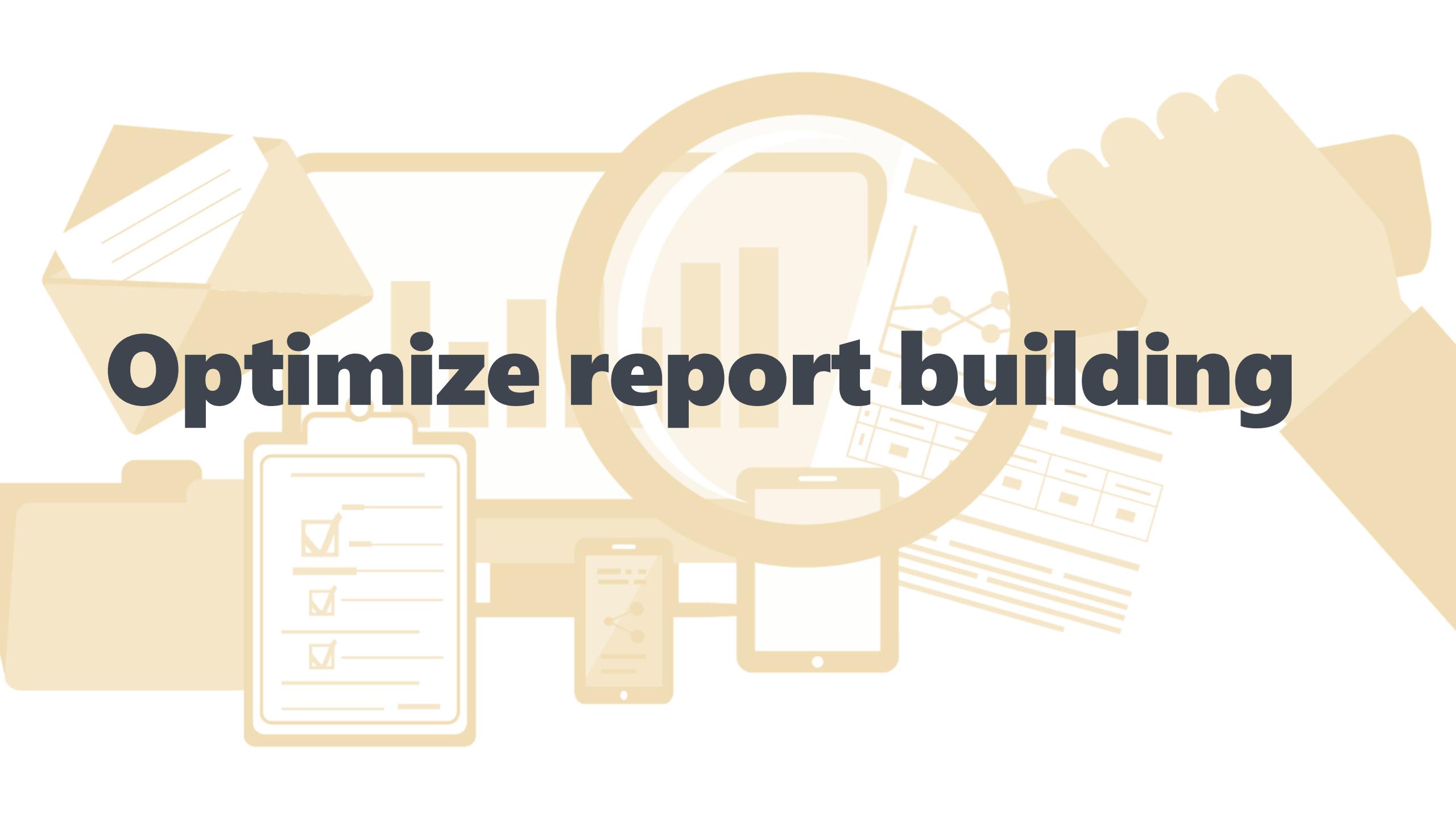


Switching folders!



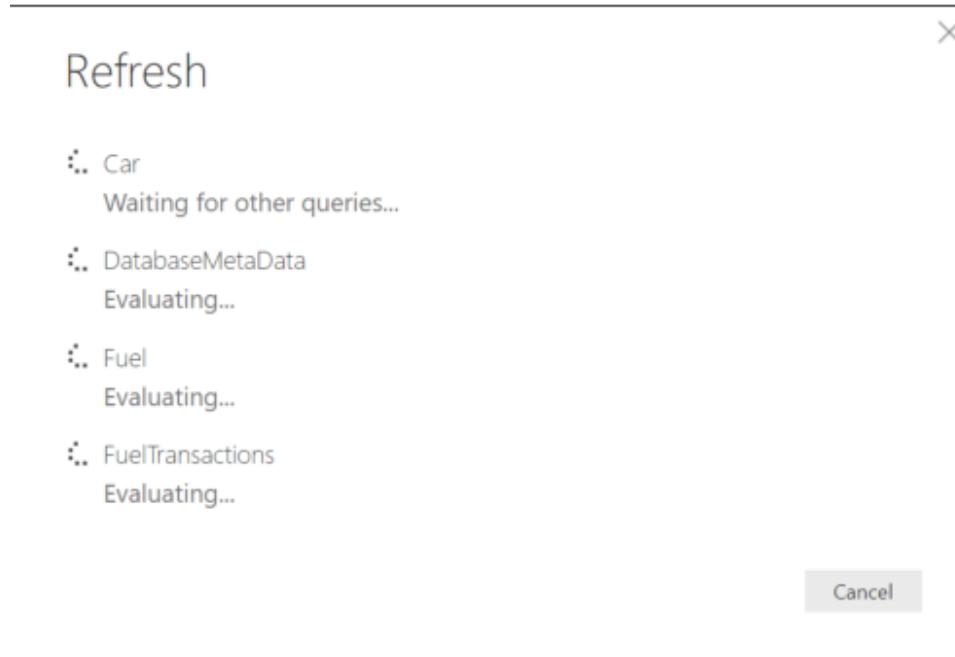
Demo: Change folder



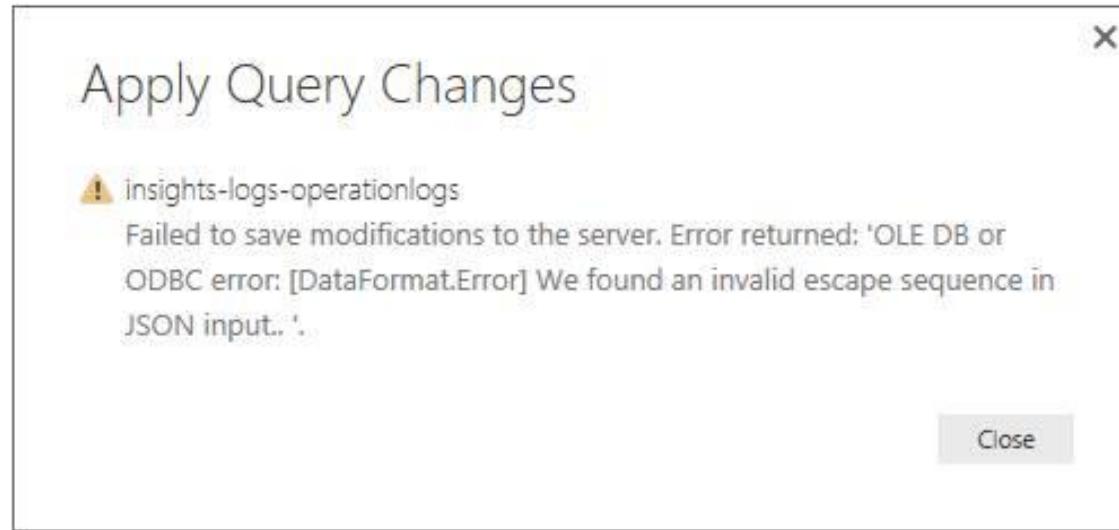


Optimize report building

Big loads of data!



Big loads of data!



Query folding



Generate SQL queries



Push queries back to
the source



Improve performance
in Power Query

Query folding

Supported Sources

- Relational data sources (SQL Server, Oracle...)
- OData sources (SharePoint lists...)
- Active Directory
- Exchange

Query folding

Supported Operations

- Filtering (both rows and columns)
- Joins
- Aggregation (Group By)
- Pivot and Unpivot
- Numeric Calculations
- Simple transformations (Uppercase / Lowercase)

Lab:

Apply top N rows

FuelTransactions

```
let
    Source = Sql.Databases((ConnectionString)),
    Database = Source{[Name=(DatabaseName)]}[Data],
    dbo_FuelTransactions = Database{[Schema="dbo",Item="FuelTransactions"]}[Data],
    #"Kept First Rows" =
        if (InDevelopment) = true
            then Table.FirstN(dbo_FuelTransactions,(NumberOfItemsToKeep))
        else #"dbo_FuelTransactions",
    #"Inserted Parsed Date" = Table.AddColumn(#"Kept First Rows", "ParsedDate", each
in
    #"Inserted Parsed Date"
```

✓ No syntax errors have been detected.

Parameters...

- ...makes it easier to move through your DTAP pipeline.
- ...improves the development performance and experience.
- ...are still changeable after publishing.
- ...easy to use for creating templates.
- ...add extra flexibility for explorative reporting.



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Challenge accepted.

Transactions

Transaction date Car brand Type Fuel Licenseplate

Last 1 Select All All All All

No filters applied

Insights Navigation

Cars Transactions Fuel

Transactions by supplier

	Shell Nederland Verkoop...	EG Re...	DKV ...
716		254	241
BP Europa SE - BP Nederla...	Total ...	Coöp...	
456	146	139	
Diverse Stations	ESSO N...		
380	132		

cars vs # transactions

Jaar 2012 2013 2014 2015 2016 2017 2018

# Auto's	# Transactions	Jaar
2	20	2012
3	40	2013
4	50	2014
5	60	2015
6	70	2016
7	80	2017
8	90	2018
9	100	2012
10	110	2013
11	120	2014
12	130	2015
13	140	2016
14	150	2017
15	160	2018
16	170	2012
17	180	2013
18	190	2014
19	200	2015
20	210	2016
21	220	2017
22	230	2018
23	240	2012
24	250	2013
25	260	2014
26	270	2015
27	280	2016
28	290	2017
29	300	2018

A map of Europe with various locations highlighted in different shades of gray, indicating the distribution of data points across the continent.

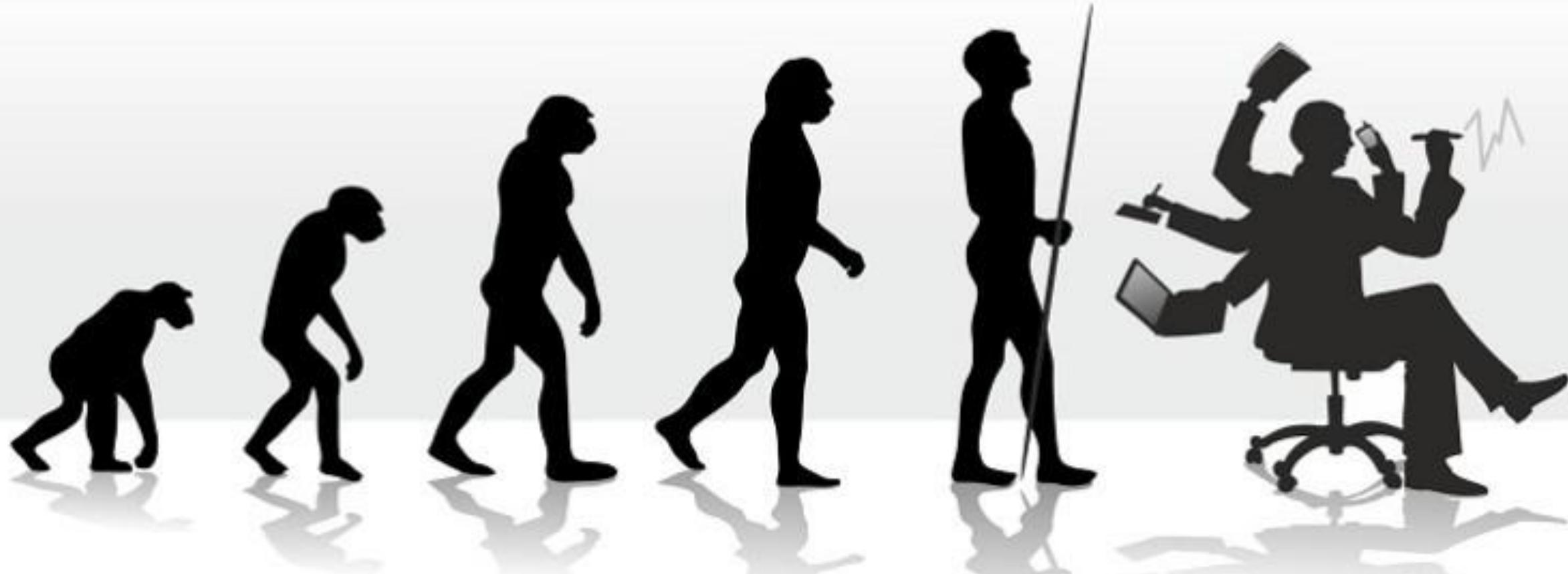
Power BI Enterprise Deployment



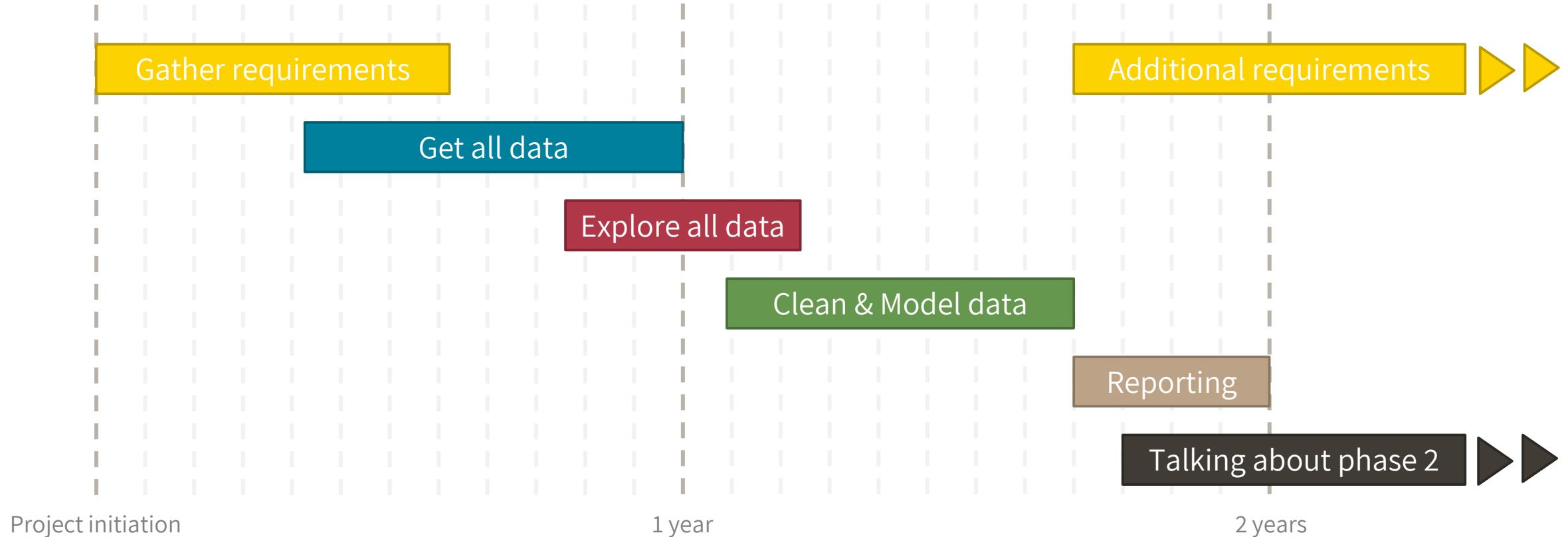
Our way of working

macaw

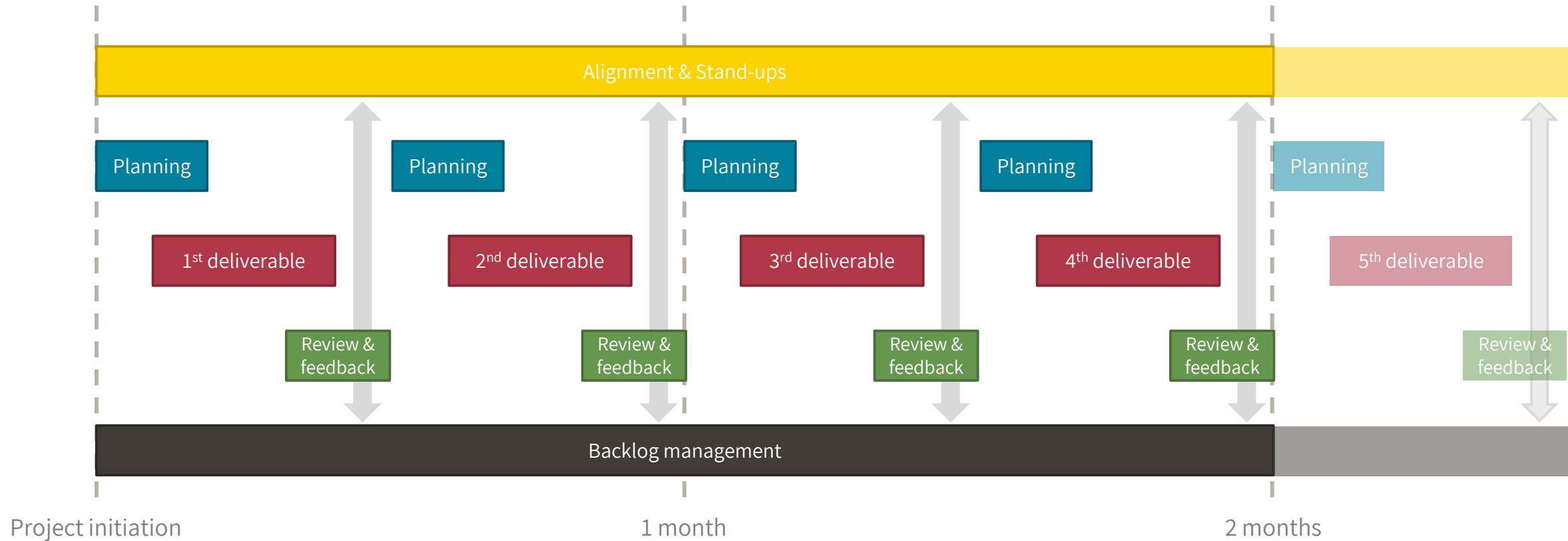
Busy era

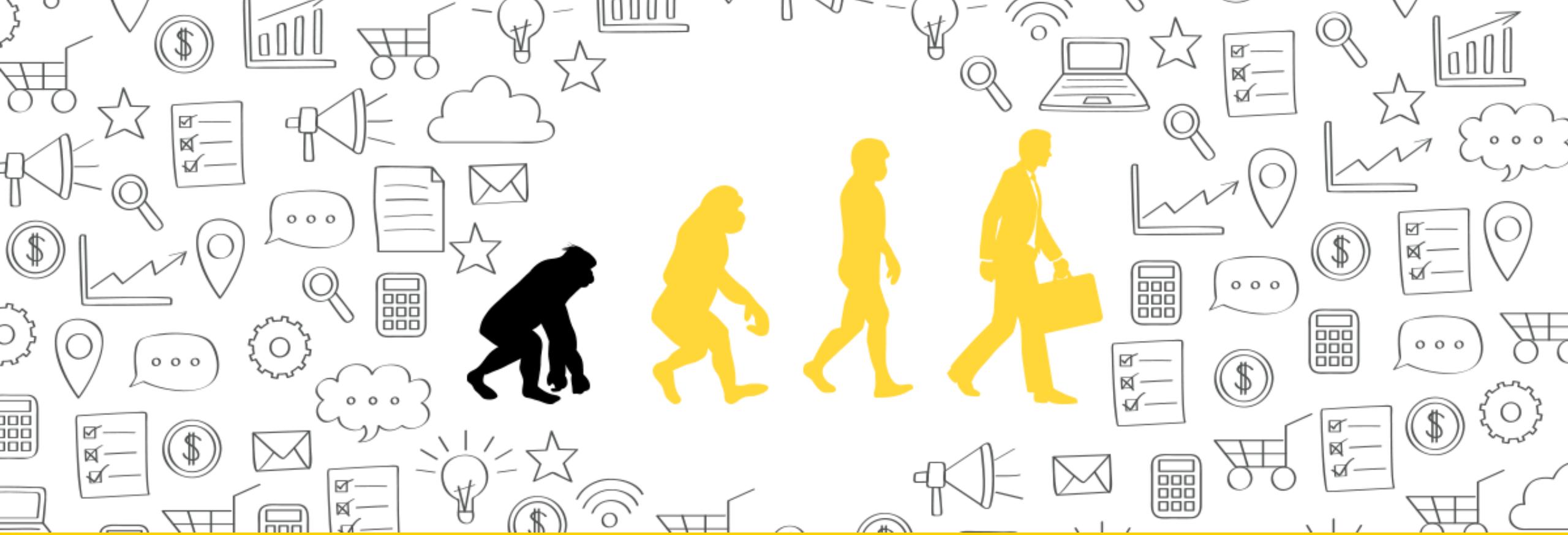


Classic approach



Start working agile

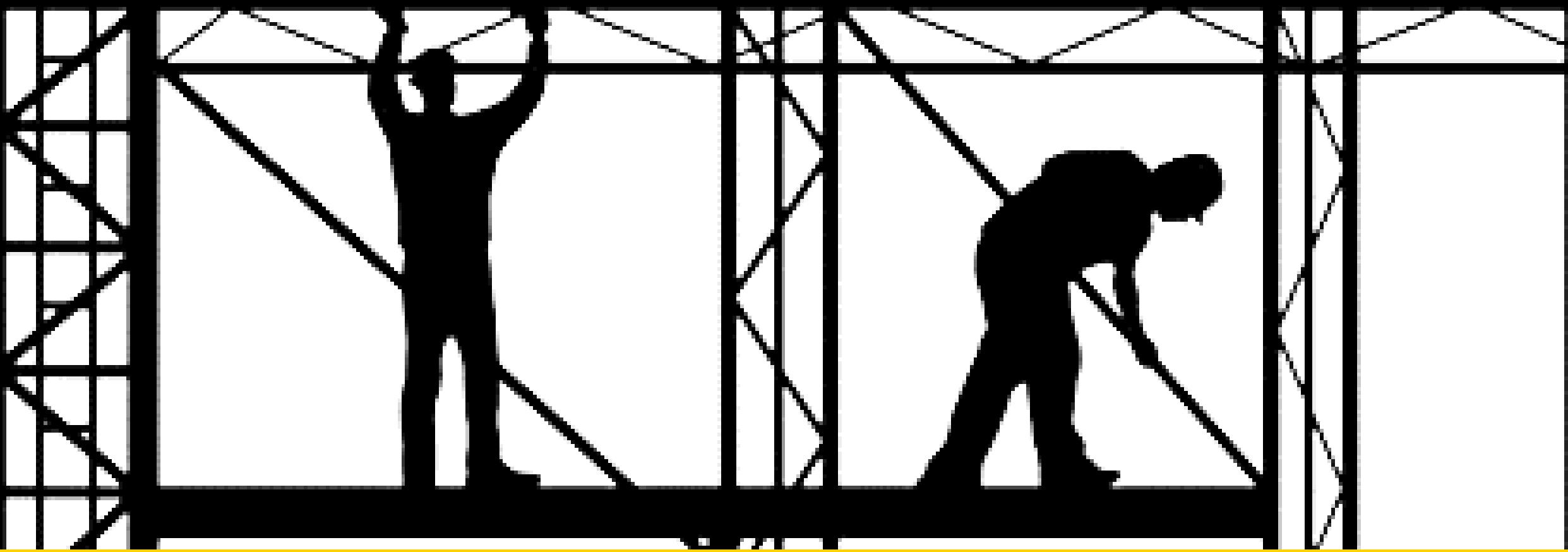




The Evolution of BI

Self-Service vs End-user BI

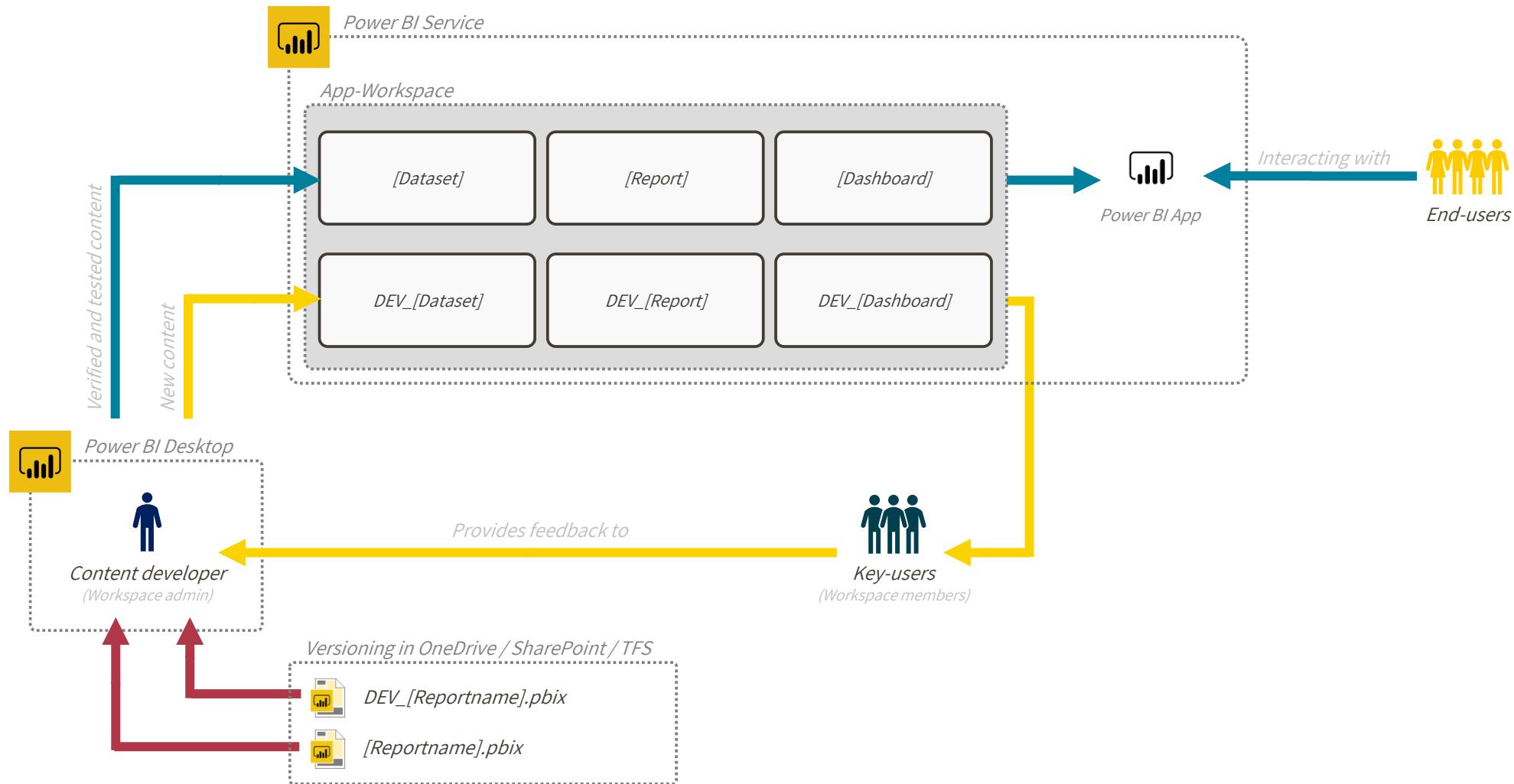




Deployment Framework

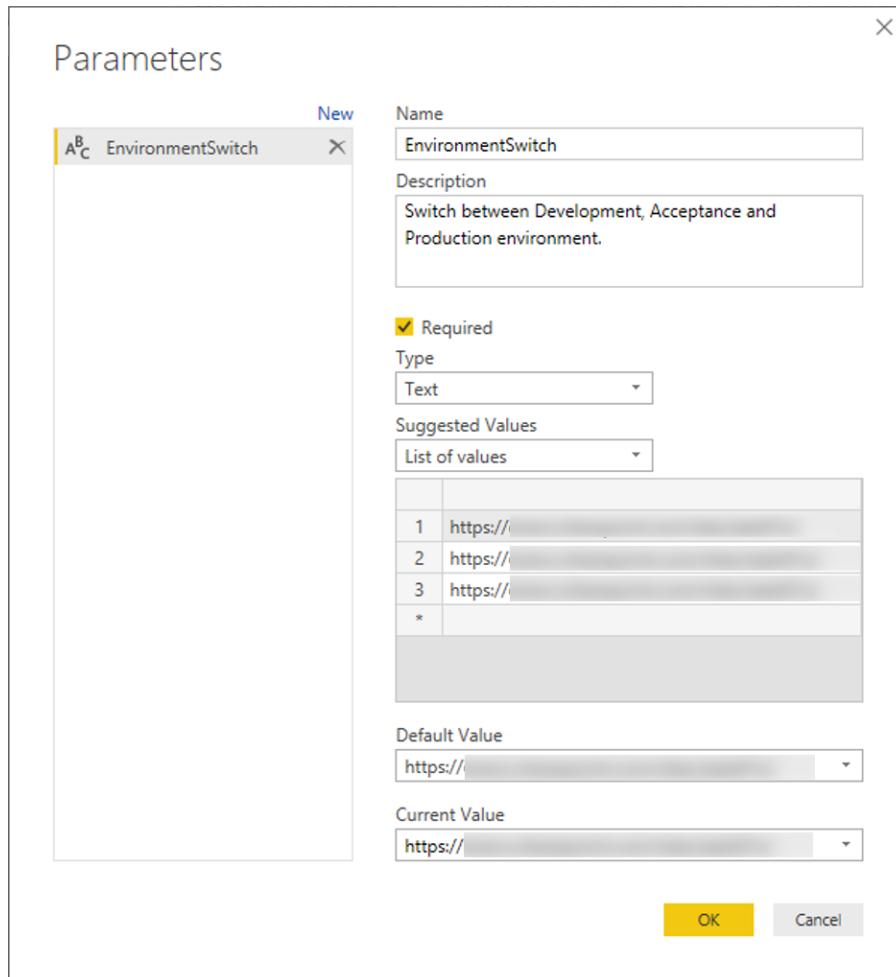
Deployment Framework

At a small scale



Deployment Framework

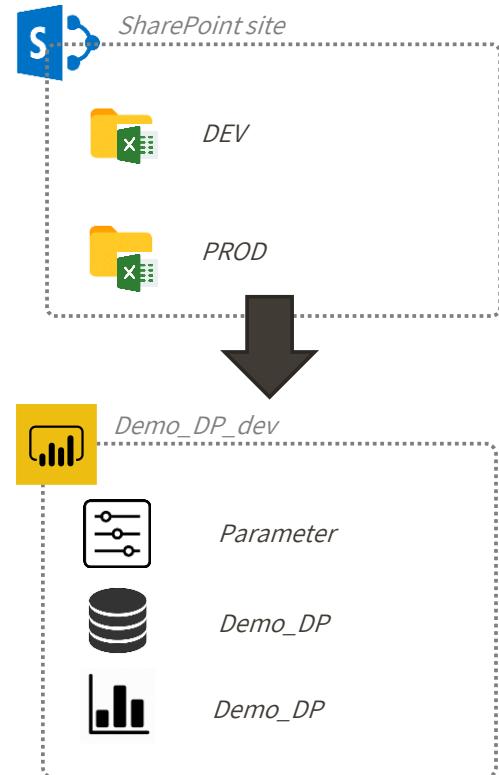
At a small scale



The screenshot shows the 'Settings for Parameterize Datasource' dialog box. It displays the configuration for the 'EnvironmentSwitch' parameter. The 'Gateway connection' section shows 'Data source credentials'. The 'Parameters' section shows the parameter details with the value 'https://SomeSite.sharepoint.com/sites/Site01/'. The 'SwitchFolderLocation' section shows 'Switchs folders' with the value 'C:\Users\MarcL\Documents\Study.xlsx'. At the bottom are 'Apply' and 'Discard' buttons. Other sections like 'Scheduled refresh', 'Q&A and Cortana', and 'Featured Q&A questions' are also visible.

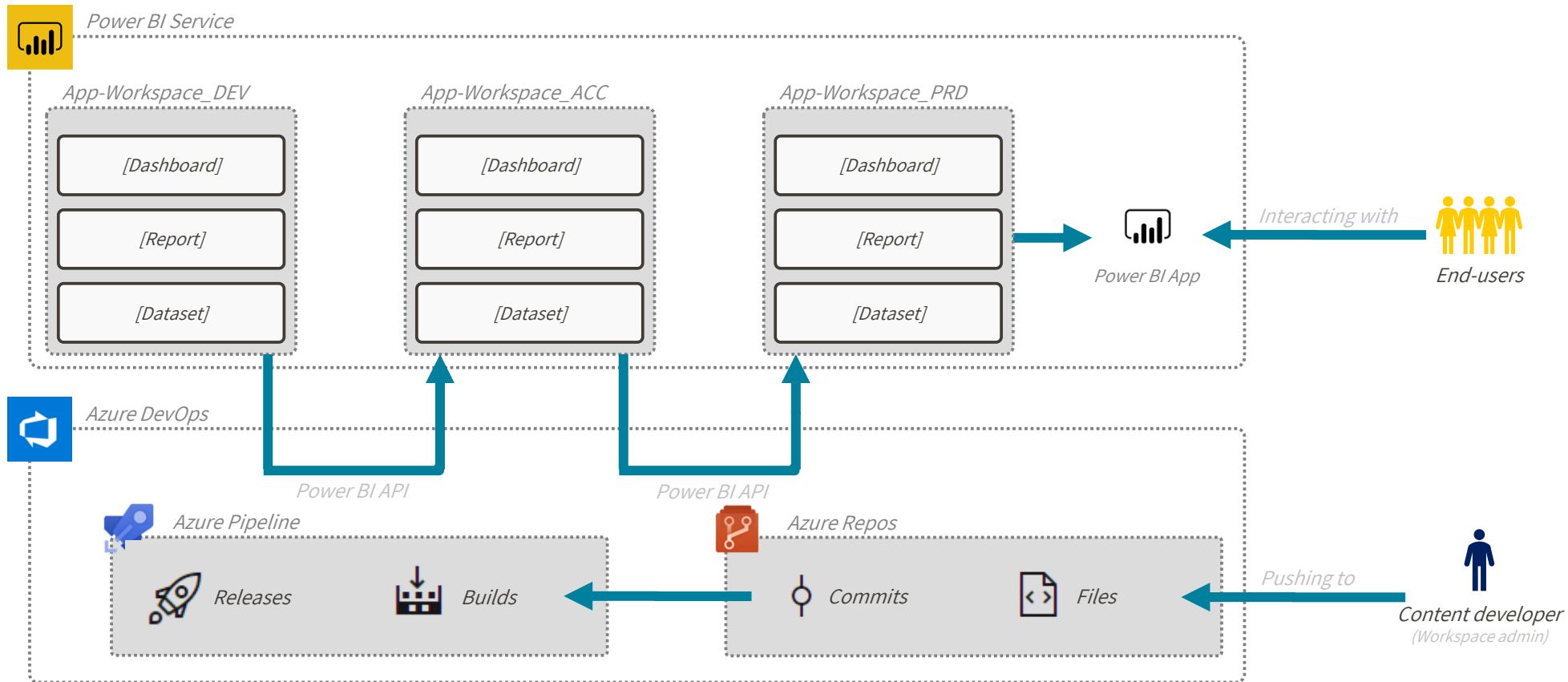
Demo context

At a small scale



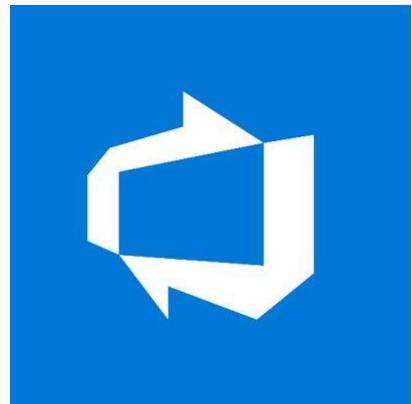
Deployment Framework

At a larger scale

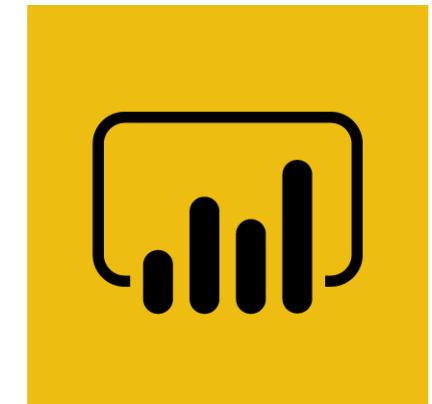
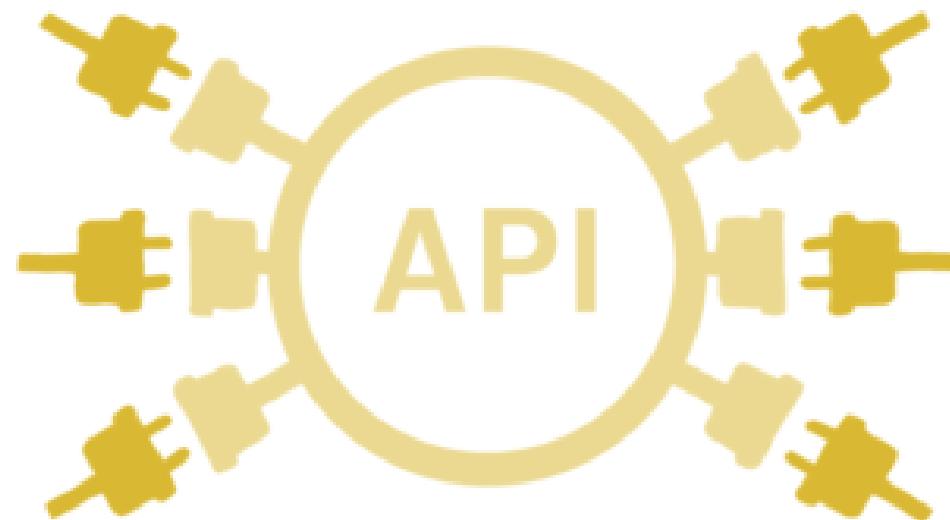


Deployment Framework

At a larger scale



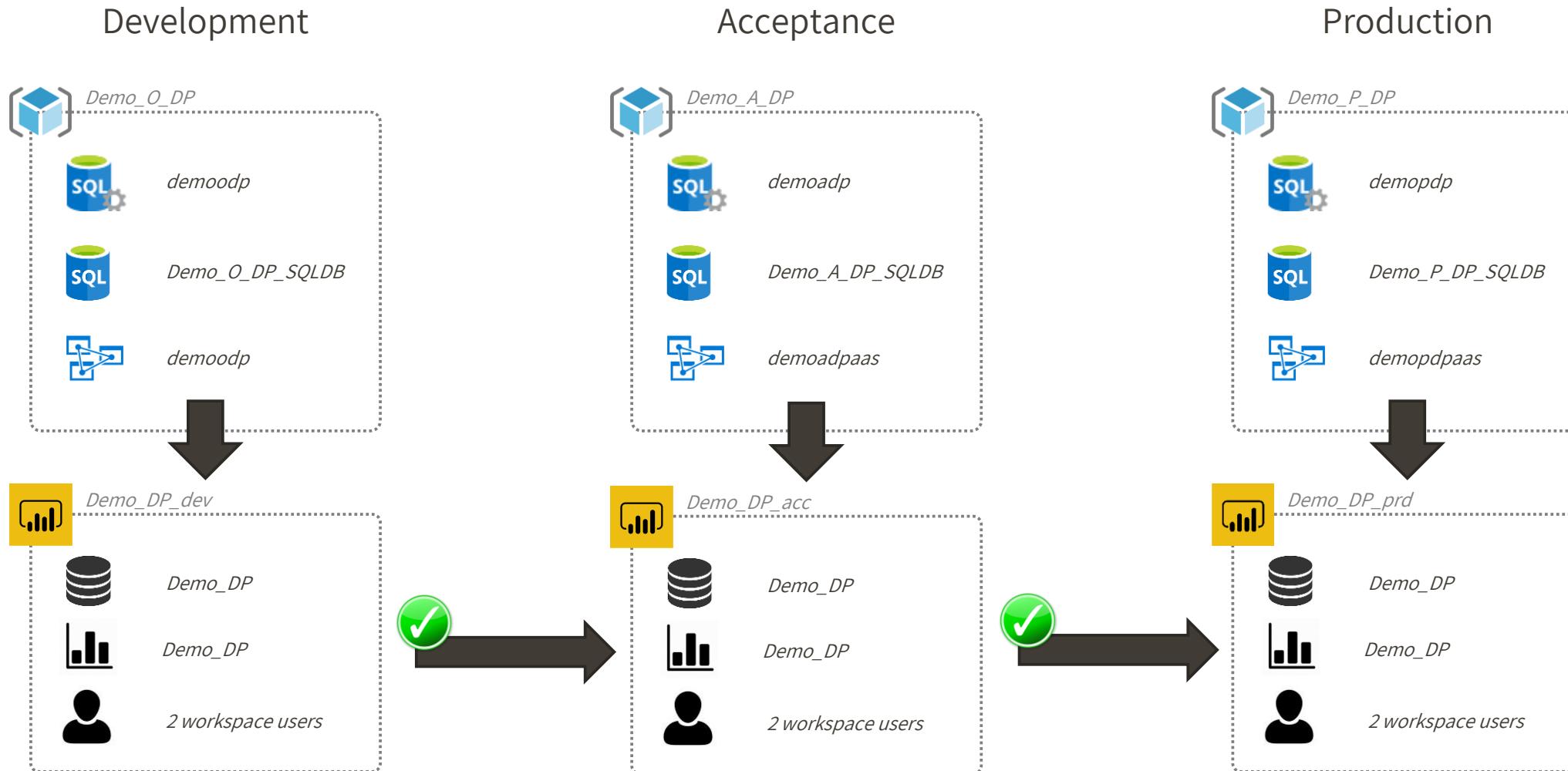
Azure DevOps



Power BI Service

Demo context

At a larger scale



Demo:

**Azure DevOps
Power BI
Deployment**



Power BI Overview

Activities Over Time

Object Flow

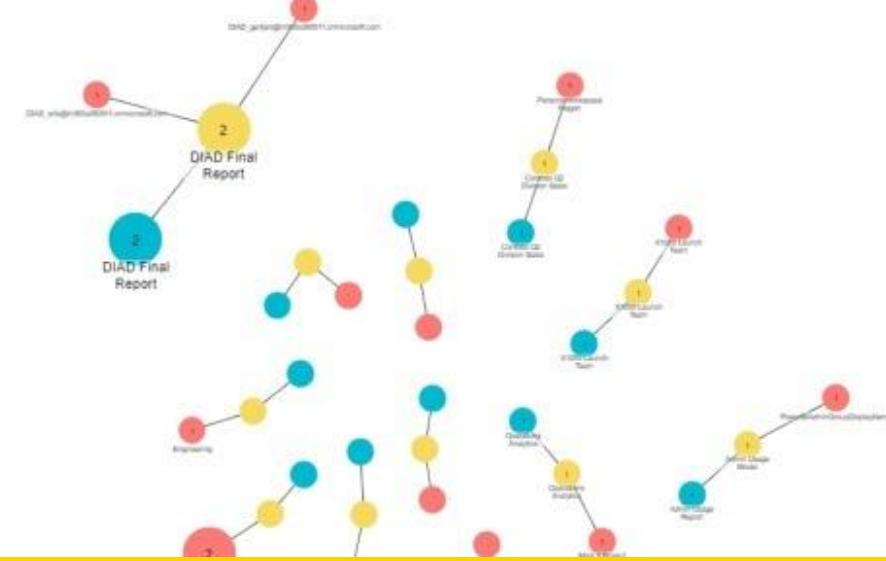
Report Page 4

Report Page 5

Report Page 7

Tenant ID	Workspace	Dataset	Report
7db92917-0044-42fb-902b-ebc94e86bdd7	DIAD_erik@m365x280911.onmicrosoft.com	DIAD Final Report	DIAD Final Report
	DIAD_gertjan@m365x280911.onmicrosoft.com	DIAD Final Report	DIAD Final Report
	Engineering	Operations	Operations
	Finance	Finance	Finance
		Report Usage Metrics Model	Report Usage Metrics Report
	HR	HR	HR
	IT	IT	IT Report
		Report Usage Metrics Model	Report Usage Metrics Report
	Mark 8 Project Team	Operations Analytics	Operations Analytics
	Marketing	Marketing	Marketing
	PersonalWorkspace Megan	Contoso Q2 Division Sales	Contoso Q2 Division Sales
	PowerBIAdminGroupDisplayName	Admin Usage Model	Admin Usage Report
	Sales	Sales	Sales
	Test	Customer Profitability Sample	Customer Profitability Sample

Object flow



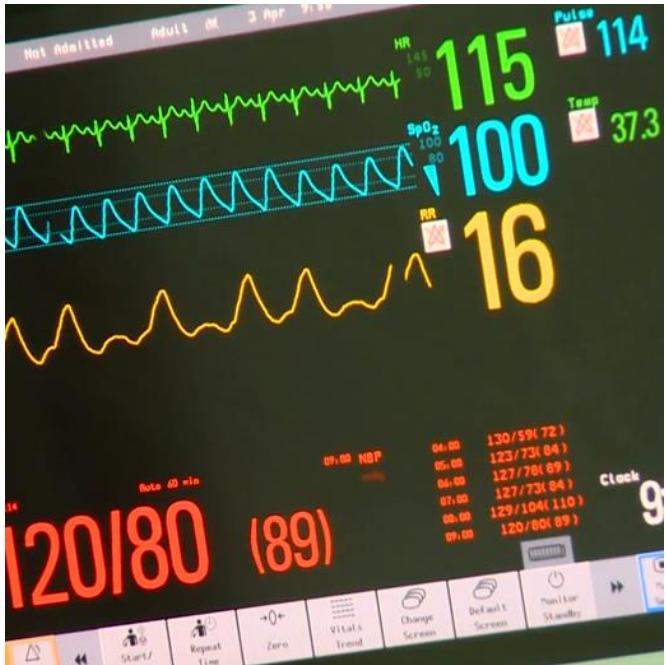
End to end monitoring

For a successful Power BI implementation

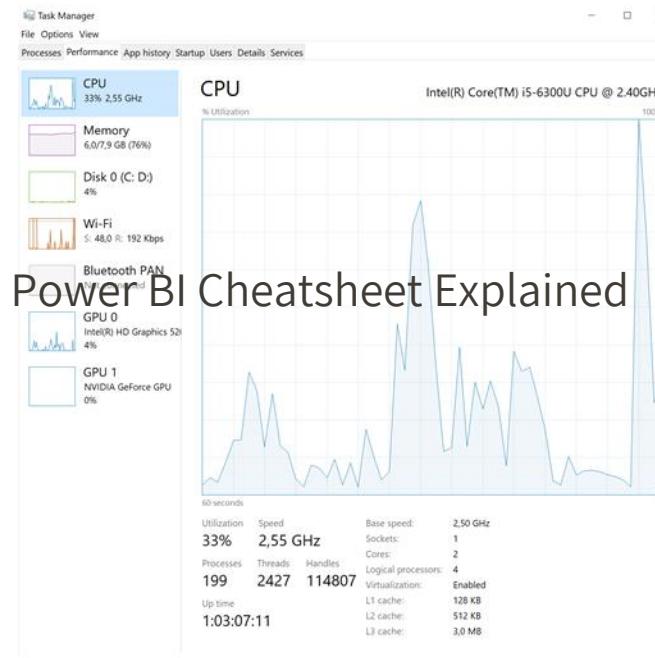
DATA BREACH



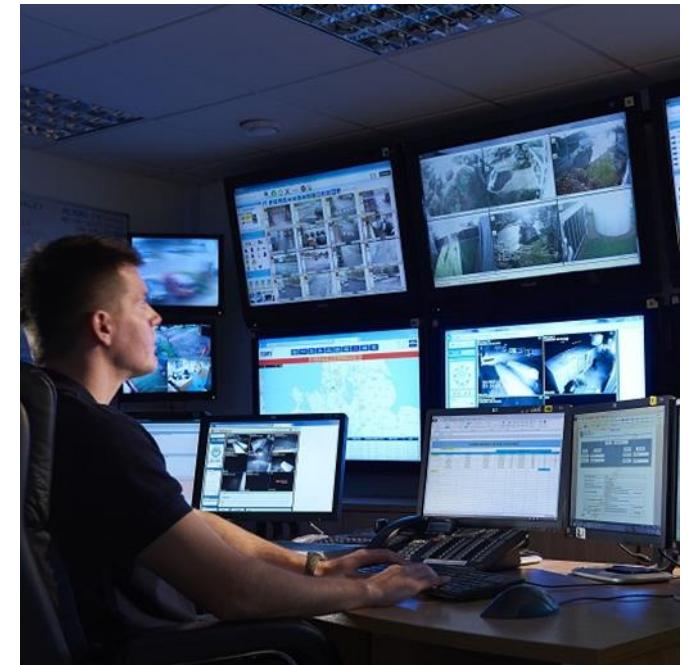
First thoughts on monitoring?



Health monitoring



Task manager



Security



Why monitoring?

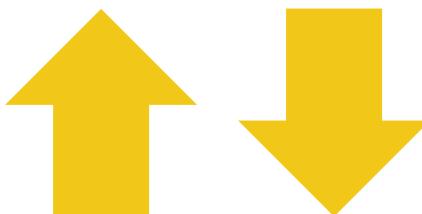
Delivery approaches

**Business-Led
Self-Service BI**



Bottom-Up

**IT- Managed
Self-Service BI**



Blended

Corporate BI



Top-Down

Exponential growth of content

Business-Led
Self-Service BI



Bottom-Up



Chuck
Finance



Rose
Human Resources



Jena
Marketing



Kasper
Engineer



Get order in the chaos



Chuck
Finance



Rose
Human Resources



Jena
Marketing



Kasper
Engineer



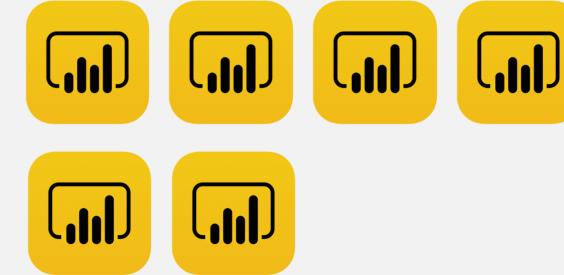
Separate people and content!



Chuck
Finance



Rose
Human Resources



Jena
Marketing



Kasper
Engineer





What do we want to monitor?

What we need to monitor



Content
availability



Usage



Performance

What we need to monitor



Secure data uploaded to the service



Publish data to the entire organisation



Share content to external users



Publish to web

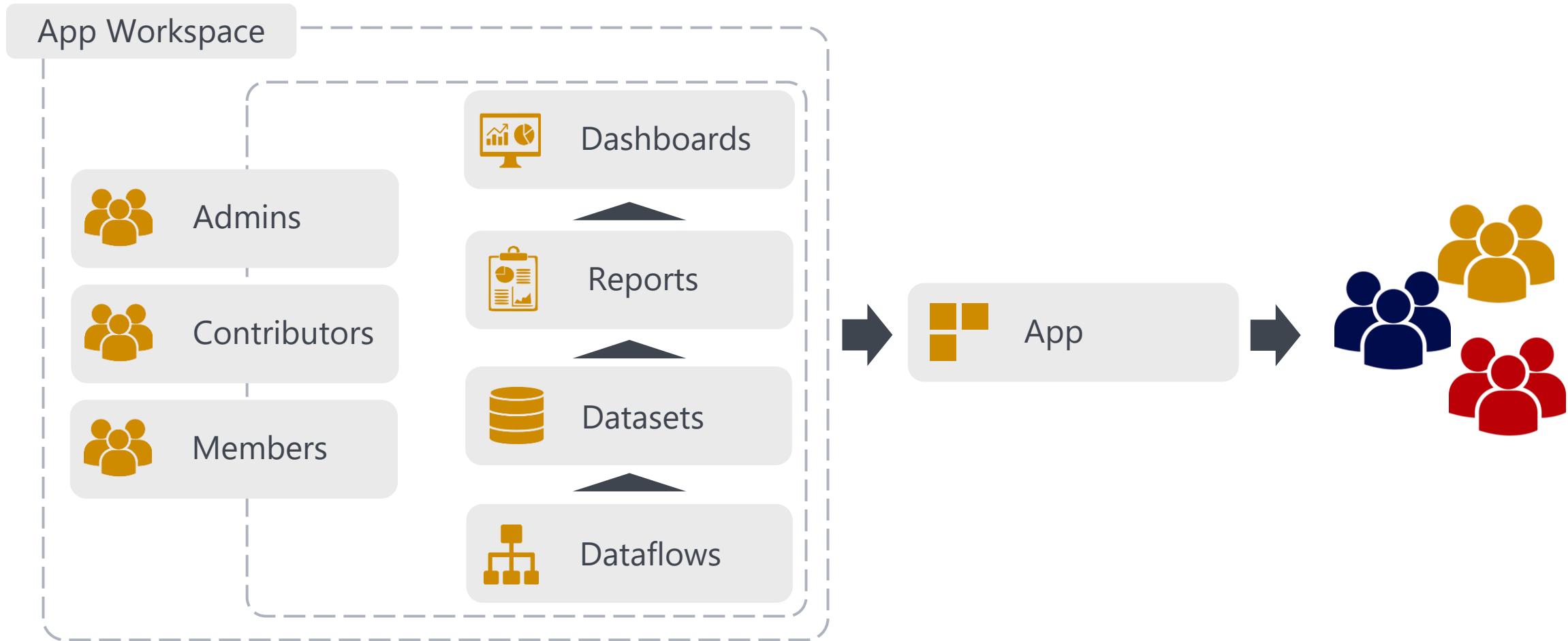


Custom visuals

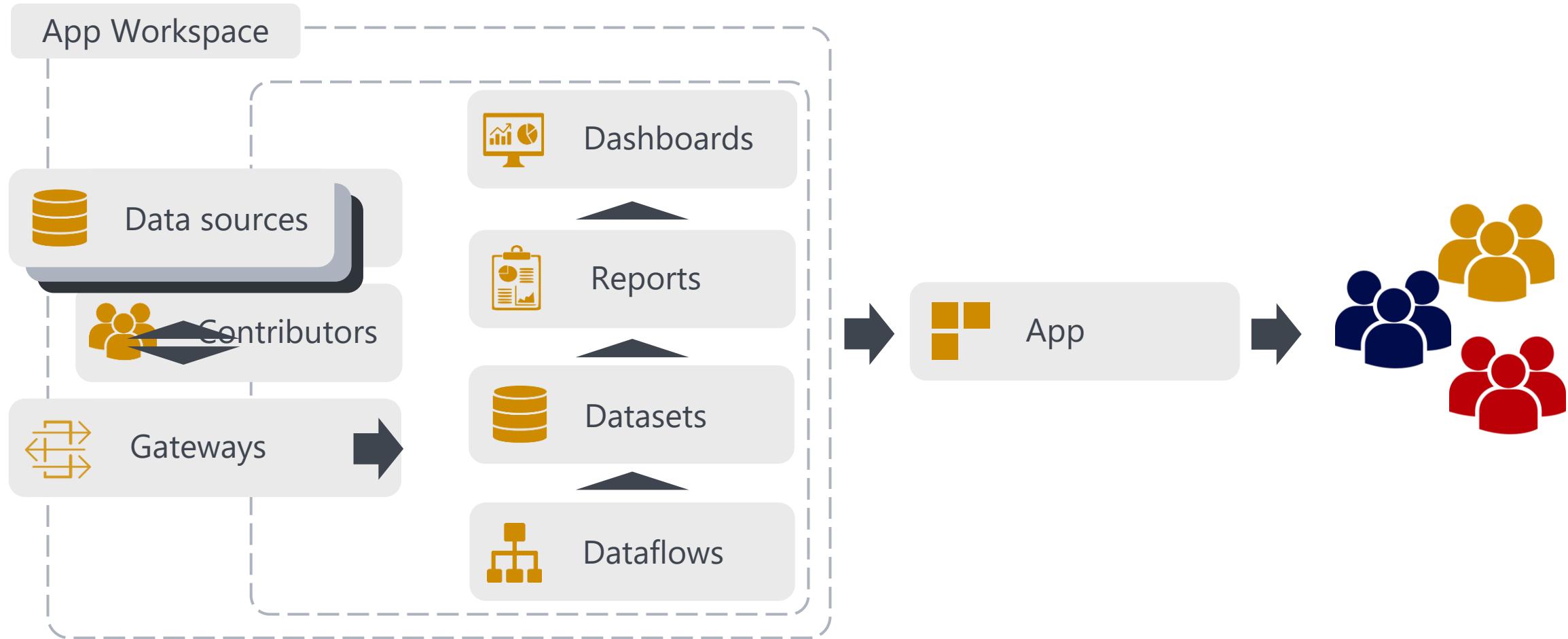


Audit logs

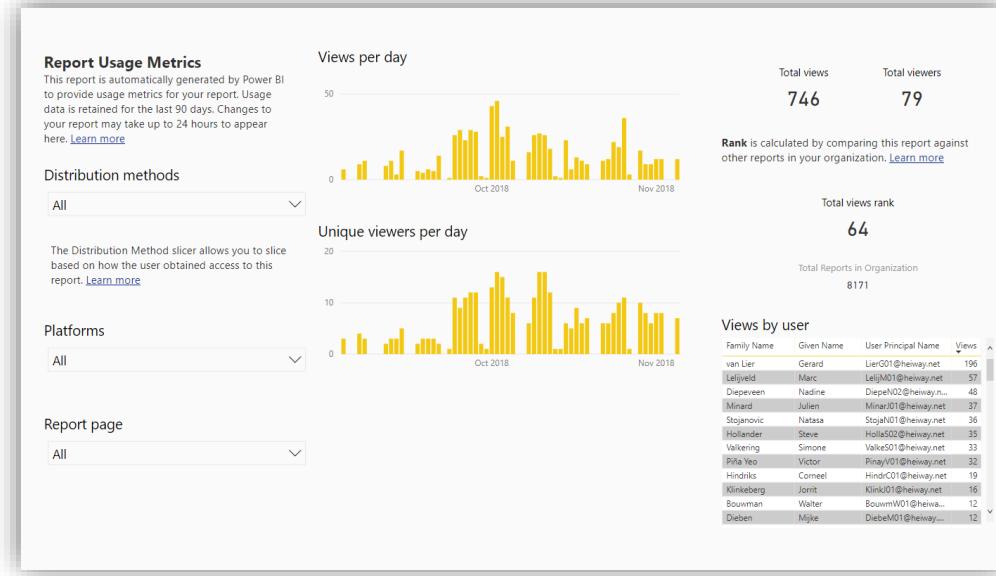
What objects are available?



What objects are available?



What the Power BI Service provides



Usage Metrics in Power BI Service

The screenshot shows the 'Audit log search' results page with 532 results found. It includes filters and a table of audit logs.

Date	User	Activity	Item
2015-12-13 22:48:55	vasil@michev.info	PasswordLogonInitialAut...	vasil@michev.info
2015-12-13 22:41:55	vasil@michev.info	PasswordLogonInitialAut...	vasil@michev.info
2015-12-13 20:49:26	vasil@michev.info	Deleted messages from...	
2015-12-13 20:45:43	vasil@michev.info	Accessed file	vasil_michev_info_SThum...
2015-12-13 20:45:43	vasil@michev.info	Viewed file	vasil_michev_info_SThum...
2015-12-13 20:35:27	vasil@michev.info	Created or received mes...	
2015-12-13 20:29:01	vasil@michev.info	Update user.	vasil@michev.info
2015-12-13 20:28:18	vasil@michev.info	Update user.	vasil@michev.info
2015-12-13 20:27:26	vasil@michev.info	User signed in to mailbox	

Audit logs in O365 admin portal (manually)



How to monitor this?

Power BI Cmdlets

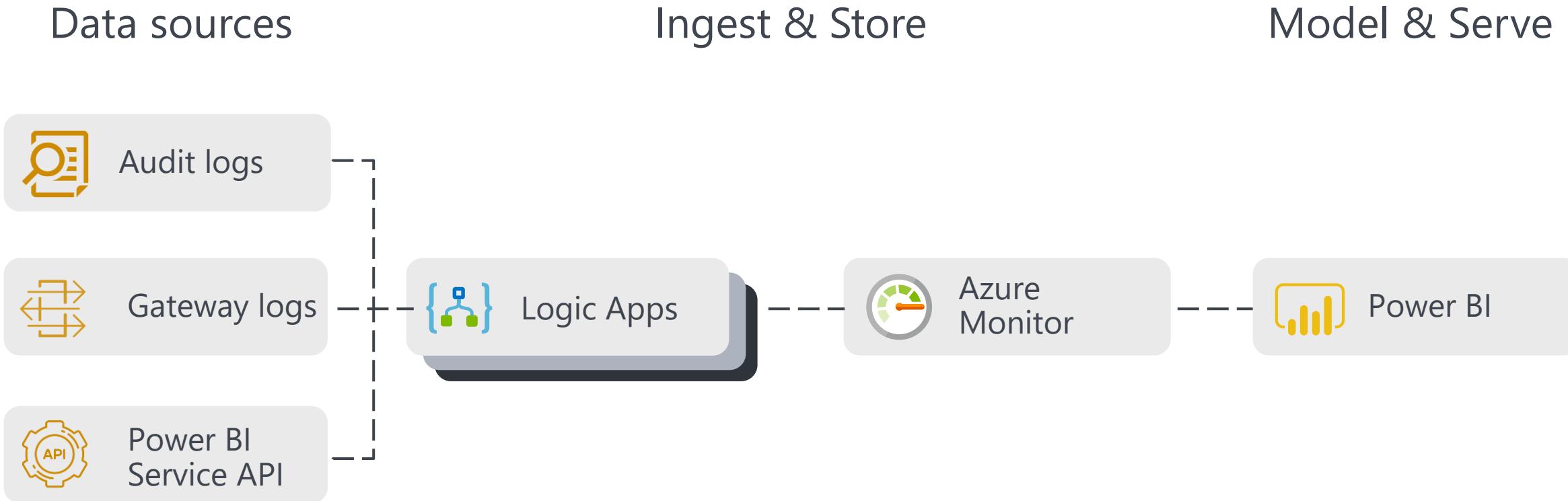
PowerShell module

- Power BI General management
- Data Management
- Profile Management
- Report Management
- Workspace Management

[Get-PowerBIWorkspace](#)

```
[-Scope <PowerBIUserScope>]  
[-Filter <String>]  
[-User <String>]  
[-Deleted]  
[-Orphaned]  
[-First <Int32>]  
[-Skip <Int32>]  
[<CommonParameters>]
```

High-level Architecture

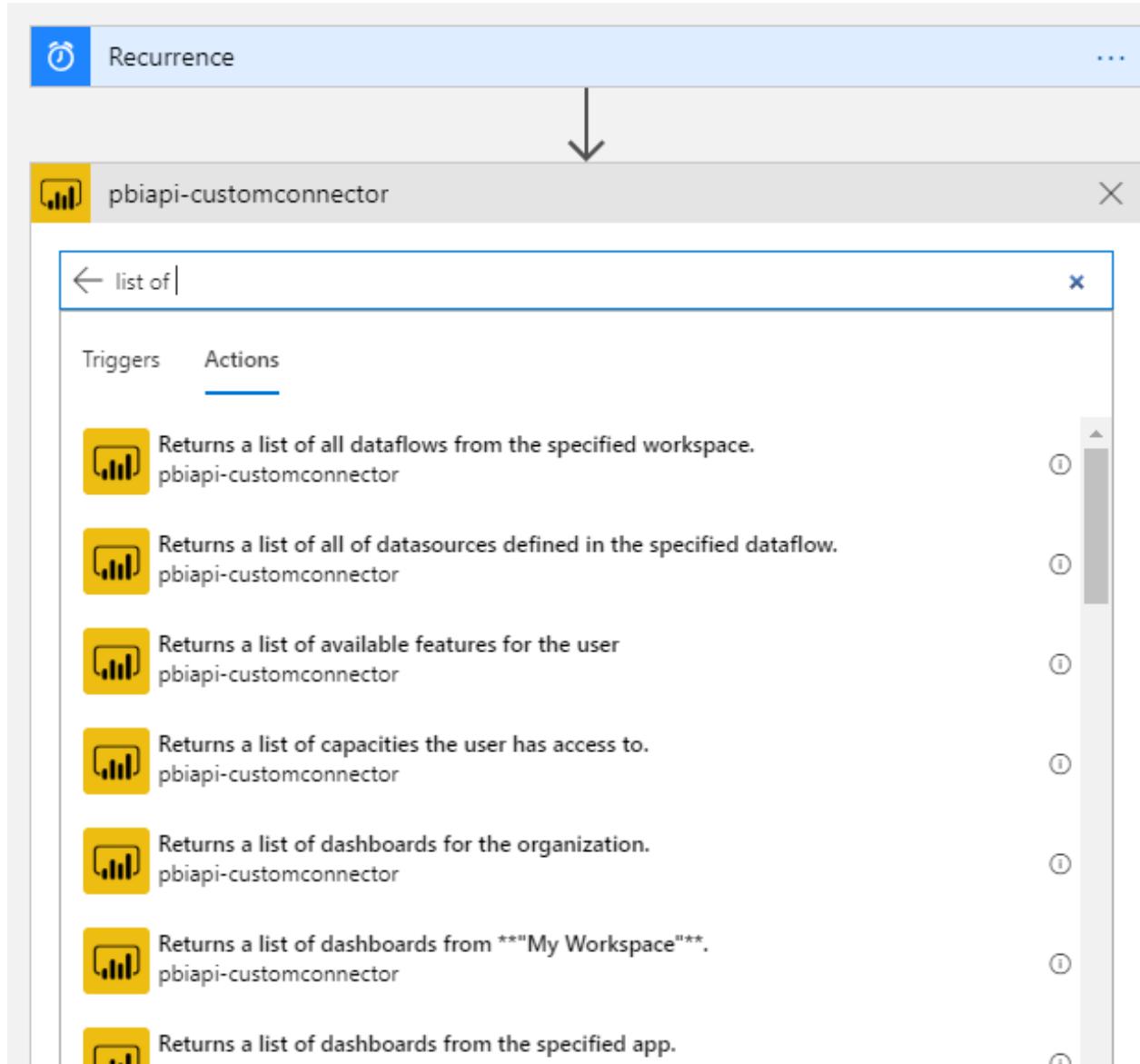


Data collection

GET <https://api.powerbi.com/v1.0/myorg/admin/groups/{groupId}/reports>

```
{  
  "value": [  
    {  
      "datasetId": "cfafbeb1-8037-4d0c-896e-a46fb27ff229",  
      "id": "5b218778-e7a5-4d73-8187-f10824047715",  
      "name": "SalesMarketing",  
      "webUrl": "https://app.powerbi.com/groups/f089354e-8366-4e18-aea3-4cb4a3a50b48/reports/5b218778-e7a5-4d73-8187-f10824047715",  
      "embedUrl": "https://app.powerbi.com/reportEmbed?reportId=5b218778-e7a5-4d73-8187-f10824047715&groupId=f089354e-8366-4e18-aea3-4cb4a3a50b48"  
    }  
  ]  
}
```

Data collection



Lab:

Build your own Power BI monitor

Recurrence

↓

pbiapi-customconnector

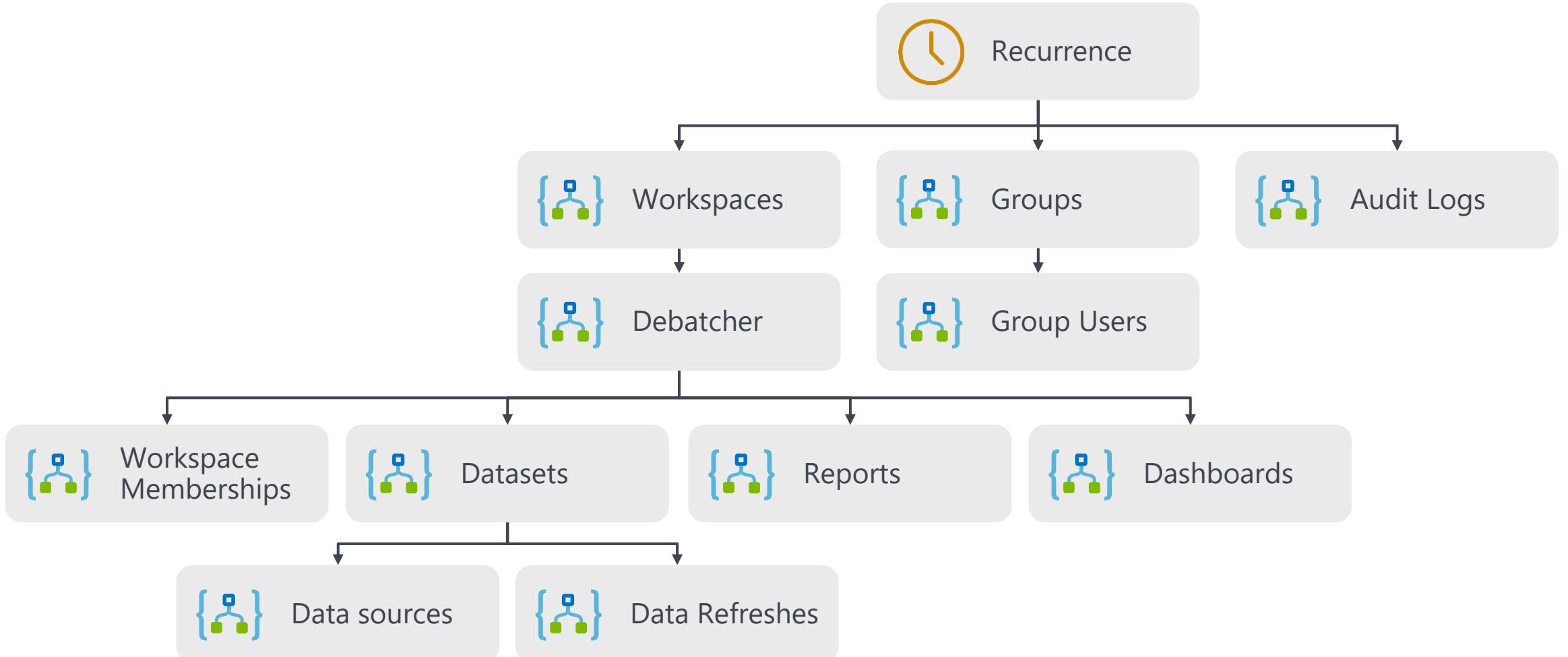
← list of | X

Triggers Actions

Actions

-  Returns a list of all dataflows from the specified workspace.
pbiapi-customconnector
-  Returns a list of all of datasources defined in the specified dataflow.
pbiapi-customconnector
-  Returns a list of available features for the user
pbiapi-customconnector
-  Returns a list of capacities the user has access to.
pbiapi-customconnector
-  Returns a list of dashboards for the organization.
pbiapi-customconnector
-  Returns a list of dashboards from **"My Workspace"**.
pbiapi-customconnector
-  Returns a list of dashboards from the specified app.
pbiapi-customconnector

Logic Apps Architecture



macaw

loganalytics-workspace-powerbi

Schema Filter (preview) <

Filter by name or type...

↓ Collapse all

Active

- loganalytics-workspace-p... ★
 - LogManagement
 - Custom Logs
 - GatewayErrorLog_CL
 - GatewayInfoLog_CL
 - GatewayNetworkLog_CL
 - MyRecordType_CL
 - OnPremDataGatewayLogs_CL
 - PBIMonitorAADActivitiesTE...
 - PBIMonitorGeneralActivities...
 - PBIMonitorTenantGroups_CL
 - PBIMonitorTenantUserMem...
 - PBIMonitorTenantUsers_CL
 - PBI_AuditLog_Activities_CL
 - PBI_Dashboards_CL
 - PBI_Datasets_CL
 - PBI_Reports_CL
 - PBI_WorkspaceUsers_CL
 - PBI_Worksaces_CL
 - PbiWorkspaces_CL
 - PowerBIWorkspaces_CL
 - Workspaces_CL
- fx Functions

Run

Time range: Last 24 hours

Save

Copy link

Export

New alert rule

Report

Azure Monitor / Log Analytics

Completed. Showing results from the last 24 hours.

00:00:00.543 50 records Display time (UTC+00:00)

TABLE CHART Columns ▾

Drag a column header and drop it here to group by that column

id_g	isReadOnly_b	isOnDedicatedCapacity_b	name_s	capacityId_g	Type
82ccf334-fadf-4891-9b14-9319da9d276f	false	false	DIAD_gertjan@m365x280911.onmicrosoft.com		PBI_Worksaces_CL
6b3d9f38-e241-418f-8120-c241eb4fd55e	false	false	DIAD_erik@m365x280911.onmicrosoft.com		PBI_Worksaces_CL
bfdbe2eb-aa04-4630-8348-3d204b2a...	false	false	Mark 8 Project Team		PBI_Worksaces_CL
d96efef6-e5c4-4b90-af2a-3f4a1e3715...	false	false	Engineering		PBI_Worksaces_CL
5c4cd1e-52b9-420c-a40a-8ae0b6afb...	false	false	Finance		PBI_Worksaces_CL
73767088-a768-497d-bca0-232f2b749...	false	false	Marketing		PBI_Worksaces_CL
2440bc9c-2c53-456d-8745-343b2f3ca...	false	false	Sales		PBI_Worksaces_CL
7f90a2a0-8910-4869-a430-17c0edf516fe	false	false	HR		PBI_Worksaces_CL
2a448f2e-fd4a-4ccf-b251-c3b7bb6345...	false	false	IT		PBI_Worksaces_CL
22c831a8-f13c-4a89-9ce6-eb7e71d4d8...	false	false	X1050 Launch Team		PBI_Worksaces_CL
419ba4a1-fadd-4378-a7f8-41ae494abf...	false	false	Production Line		PBI_Worksaces_CL
9d661a50-16ce-48fc-98e4-629e3b6b8...	false	false	Business Development		PBI_Worksaces_CL
1d240e76-ac86-49ee-b4b8-34f9d571b...	false	false	DG-2000 Product Team		PBI_Worksaces_CL
e24b202e-74db-4297-9ff8-ef90508bf...	false	false	DG-2000 Feedback		PBI_Worksaces_CL

Demo: Azure Monitor

New Query 1* +

loganalytics-workspace-powerbi

Schema Filter (preview) <=

Filter by name or type...

↓ Collapse all

Active

▼ loganalytics-workspace-p... ★

- ▶ LogManagement
- ▶ Custom Logs
- ▶ GatewayErrorLog_CL
- ▶ GatewayInfoLog_CL
- ▶ GatewayNetworkLog_CL
- ▶ MyRecordType_CL
- ▶ OnPremDataGatewayLogs_CL
- ▶ PBIMonitorAADActivitiesTE...
- ▶ PBIMonitorGeneralActivities...
- ▶ PBIMonitorTenantGroups_CL
- ▶ PBIMonitorTenantUserMem...
- ▶ PBIMonitorTenantUsers_CL
- ▶ PBI_AuditLog_Activities_CL
- ▶ PBI_Dashboards_CL
- ▶ PBI_Datasets_CL
- ▶ PBI_Reports_CL
- ▶ PBI_WorkspaceUsers_CL
- ▶ PBI_Workspaces_CL
- ▶ PbiWorkspaces_CL
- ▶ PowerBIWorkspaces_CL
- ▶ Workspaces_CL
- ▶ Functions

PBI_Workspaces_CL
| limit 50

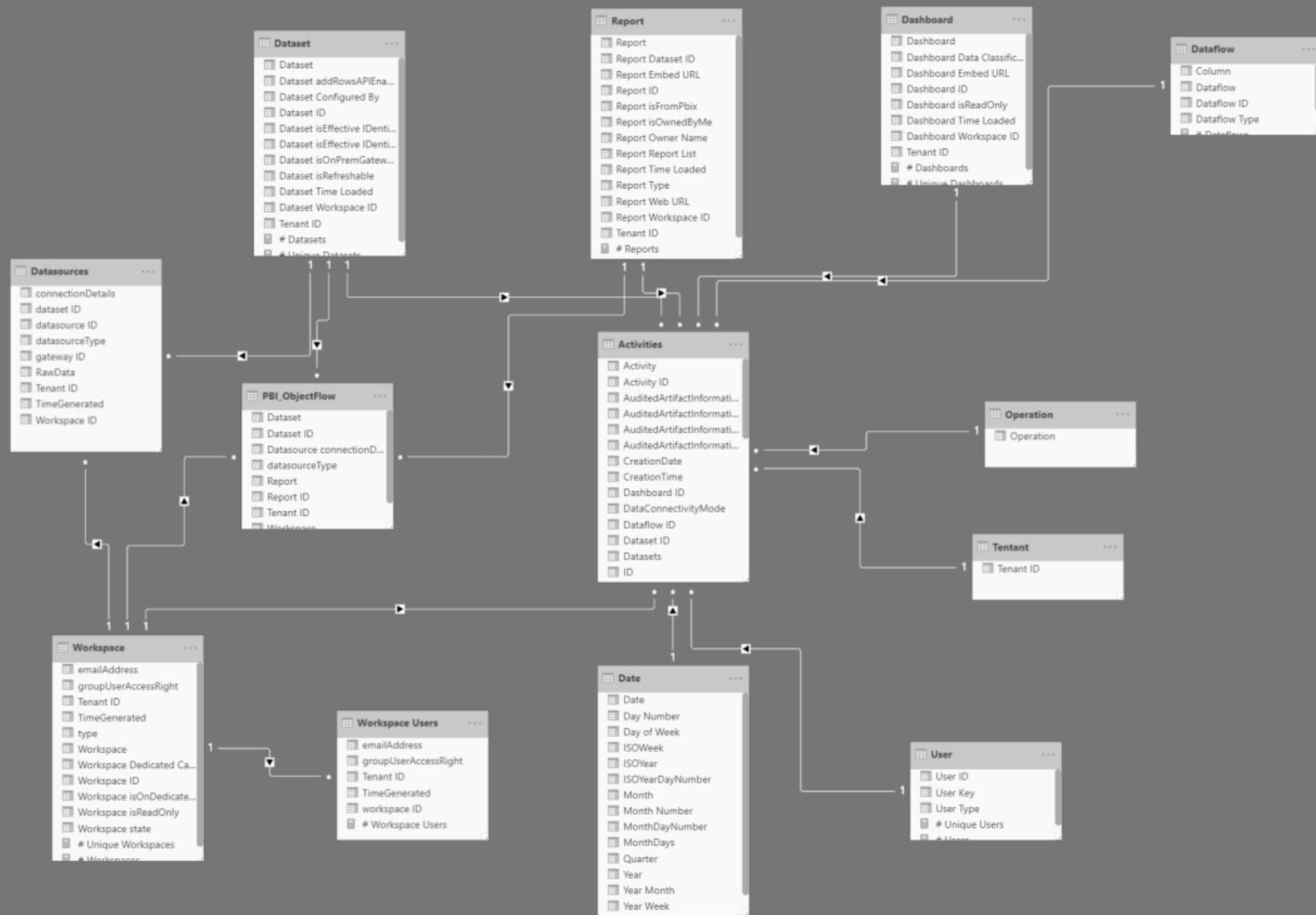
Run Time range: Last 24 hours

Completed. Showing results from the last 24 hours.

TABLE CHART | Columns ▾

Drag a column header and drop it here to group by that column

id_g	isReadOnly_b	isOnDedicatedCapacity_b	name_s
82ccf334-fadf-4891-9b14-9319da9d276f	false	false	DIAD_gertja@...
6b3d9f38-e241-418f-8120-c241eb4fd55e	false	false	DIAD_erik@...
bfdbe2eb-aa04-4630-8348-3d204b2a...	false	false	Mark 8 Proj...
d96efe56-e5c4-4b90-af2a-3f4a1e3715...	false	false	Engineering...
5c4cd1e-52b9-420c-a40a-8ae0b6afb...	false	false	Finance...
73767088-a768-497d-bca0-232f2b749...	false	false	Marketing...
2440bc9c-2c53-456d-8745-343b2f3ca...	false	false	Sales...
7f90a2a0-8910-4869-a430-17c0edf516fe	false	false	HR...
2a448f2e-fd4a-4ccf-b251-c3b7bb6345...	false	false	IT...
22c831a8-f13c-4a89-9ce6-eb7e71d4d8...	false	false	X1050 Laun...
419ba4a1-fadd-4378-a7f8-41ae494abf...	false	false	Production...
9d661a50-16ce-48fc-98e4-629e3b6b8...	false	false	Business De...
1d240e76-ac86-49ee-b4b8-34f9d571b...	false	false	DG-2000 Pr...
e24b202e-74db-4297-9ff8-ef90508bf...	false	false	DG-2000 Fe...



Demo: Power BI Monitor Report

POWER BI OBJECT FLOW
Power BI Monitor

Power BI Overview Activities Over Time Object Flow Report

Tenant ID	Workspace	Dataset	Report
7db92917-0044-42fb-902b-ebc94e86bdd7	DIAD_erik@m365x280911.onmicrosoft.com	DIAD Final Report	DIAD Final Report
	DIAD_gertjan@m365x280911.onmicrosoft.com	DIAD Final Report	DIAD Final Report
	Engineering	Operations	Operations
	Finance	Finance	Finance
		Report Usage Metrics Model	Report Usage Metrics Report
	HR	HR	HR
	IT	IT	IT Report
		Report Usage Metrics Model	Report Usage Metrics Report
	Mark 8 Project Team	Operations Analytics	Operations Analytics
	Marketing	Marketing	Marketing
	PersonalWorkspace Megan	Contoso Q2 Division Sales	Contoso Q2 Division Sales
	PowerBIAdminGroupName	Admin Usage Model	Admin Usage Report
	Sales	Sales	Sales
	Test	Customer Profitability Sample	Customer Profitability Sample
	X1050 Launch Team	X1050 Launch Team	X1050 Launch Team

Object flow

The diagram illustrates the flow of objects between datasets and reports. It features a vertical timeline with three main nodes: 'DIAD Final Report' (red circle), 'Report Usage Metrics Model' (blue circle), and 'Report Usage Metrics Report' (green circle). Arrows indicate the flow from the report to the metrics model, and from the metrics model to the final report. A legend at the bottom defines the colors: teal for Tenant ID and yellow for Dataset.

- Tenant ID
- Dataset

Recap

- Monitoring is more than usage insights.
- Monitor end-to-end, not only individual reports!
- Monitoring is key for a successful implementation of Power BI within an enterprise environment.



Download for free!

[Https://bit.ly/cheatsheetpbi](https://bit.ly/cheatsheetpbi)



Marc Lelijveld

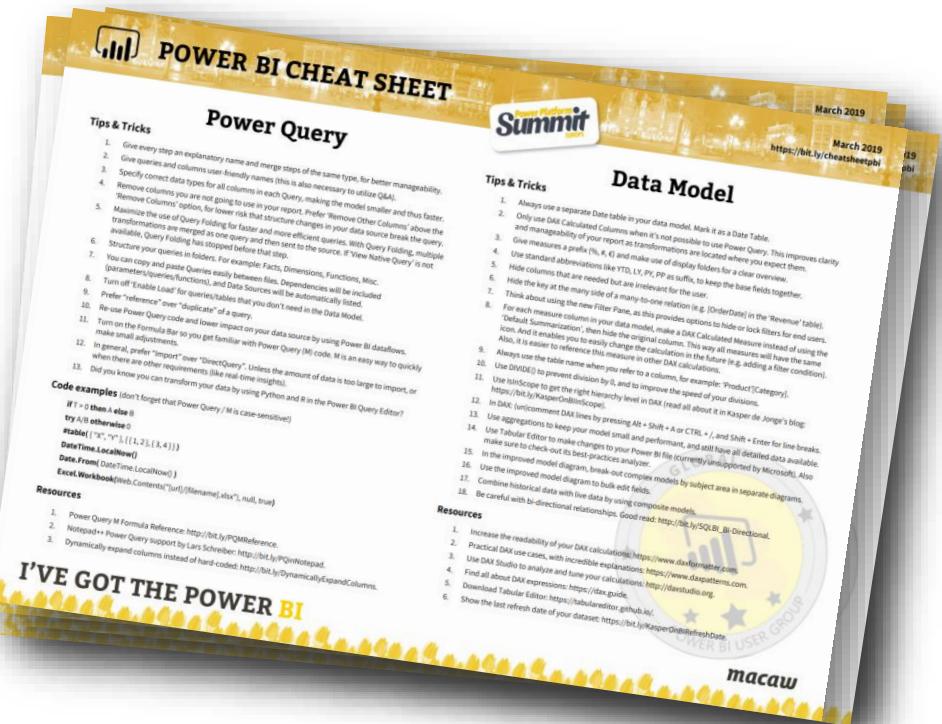
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linkedin [linkedin.com/in/MarcLelijveld](https://www.linkedin.com/in/MarcLelijveld)

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