# Enterprise & multi-tier Power Bl deployments

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## What we cover today

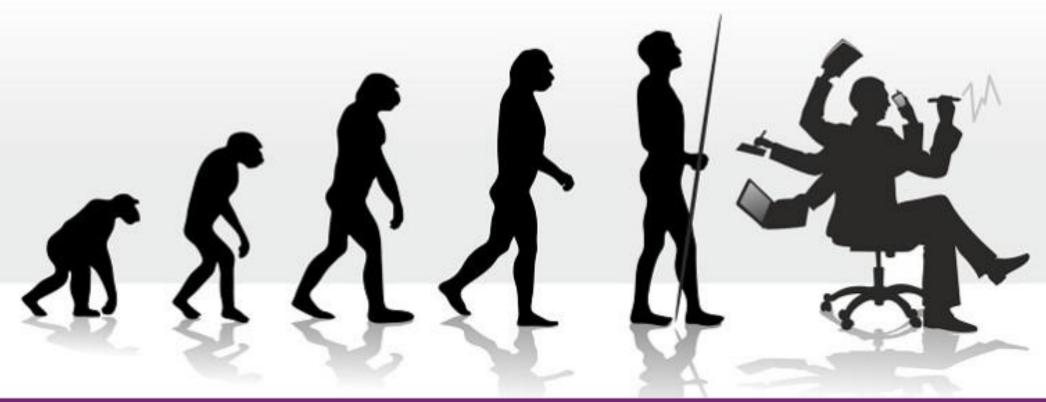
- Our way of working
- The evolution of BI
- Deployment framework
- Demo time!
- What about dataflows?
- XMLA endpoints & roadmap





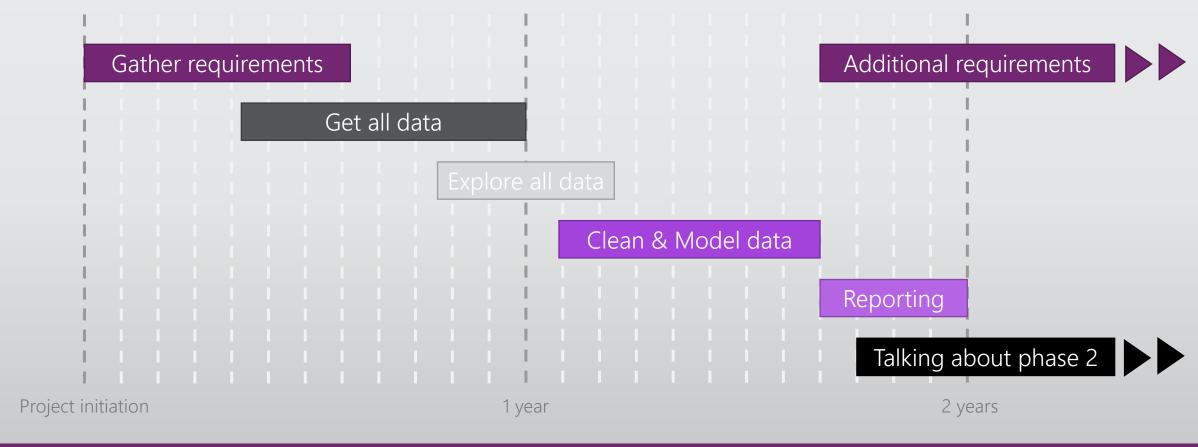


# **Busy era**





# Classic approach

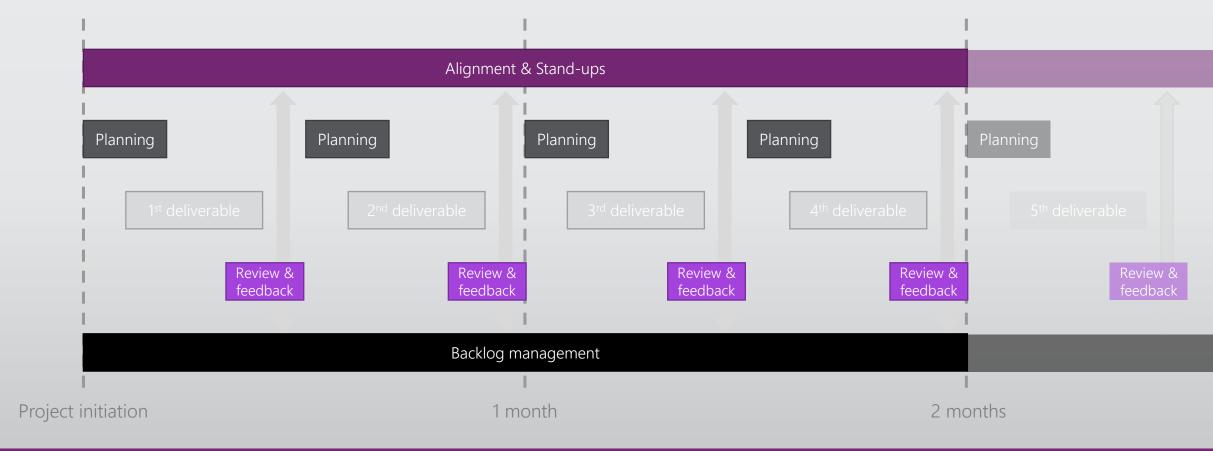




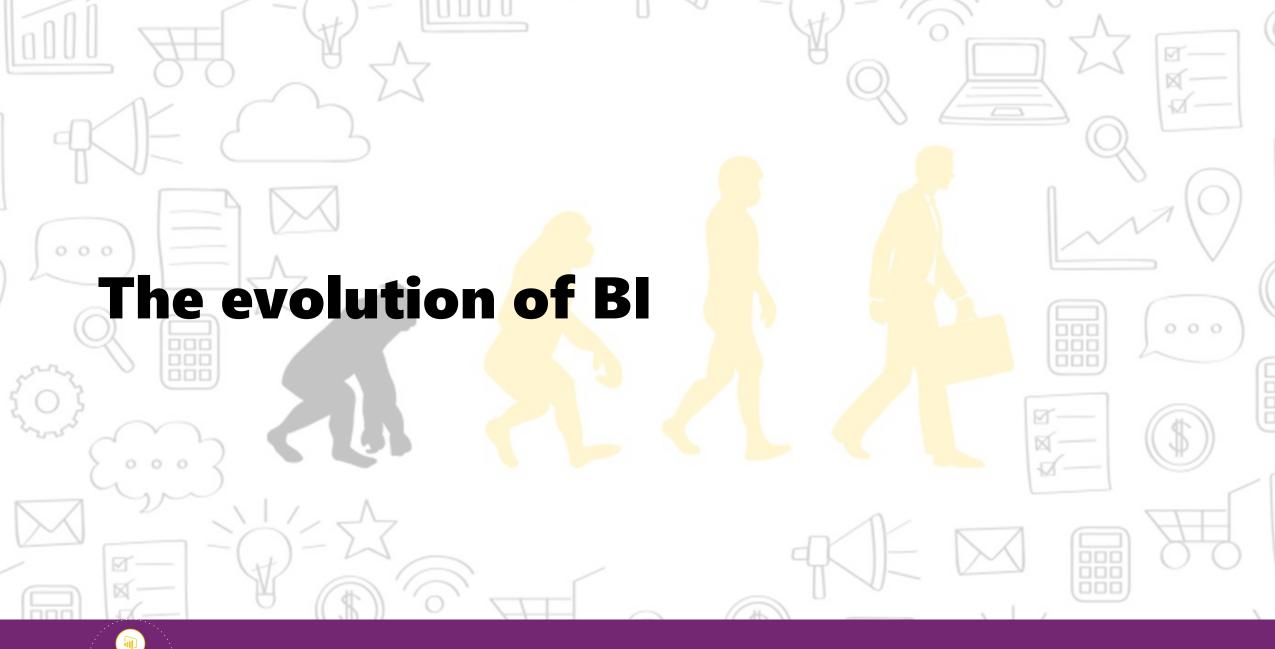
# Working on it...

This shouldn't take long.

## Start working agile









## The evolution of BI

**3rd wave** End user BI

2<sup>nd</sup> wave Self-service BI Everyone Everyone

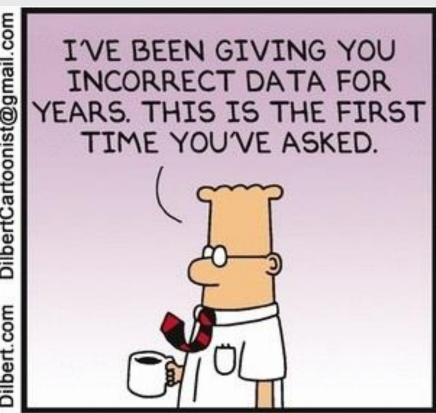


**1st wave**Corporate BI



## Self-service vs End-user Bl







## **Governance Model**





## **Deployment scenarios**

IT-Managed **Business-Led** Corporate BI Self-Service BI Self-Service BI Approach Blended Bottom-Up Published by IT Only governed sources Data sources Any type of data source IT for data model, Business supports all Ownership Fully supported by IT Business for reports elements of the solution IT for data, Governed by IT Business business for reports Usage scope of Data prep, modelling, Creation of (custom) Only use of content reports and dashboards reports and dashboards business



## **Deployment scenarios**

Corporate BI

IT-Managed Self-Service BI Business-Led Self-Service Bl

Approach

Data sources

Ownership

Governed by

Usage scope of business



Published by IT

Fully sul 100%

**IT-Driven** 

Only use of content

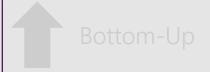


Only governed sources

IT for 5.0/d50
Business for reports

IT for data, business for reports

Creation of (custom) reports and dashboards



Any type of data source

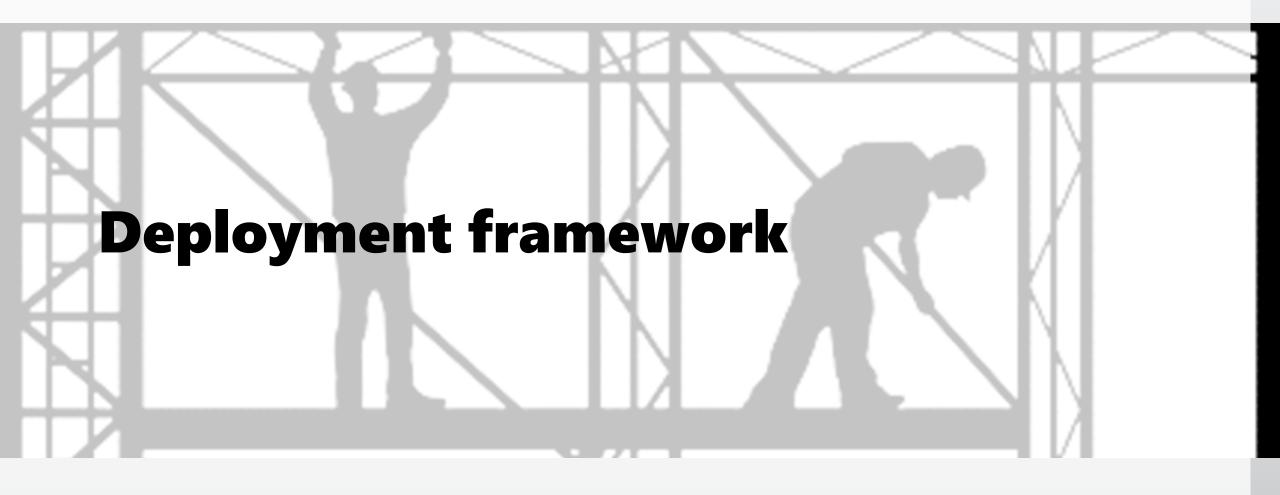
Busines 100%

## **Business Driven**

Business

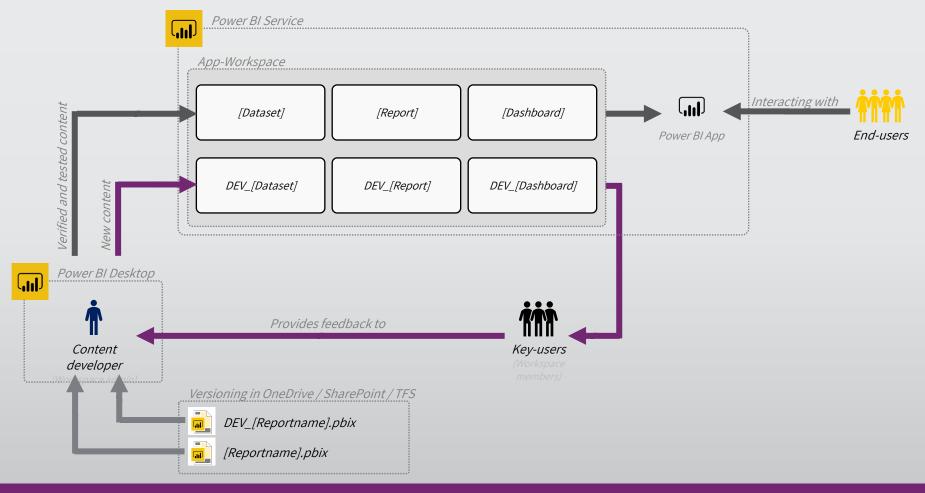
Data prep, modelling, reports and dashboards





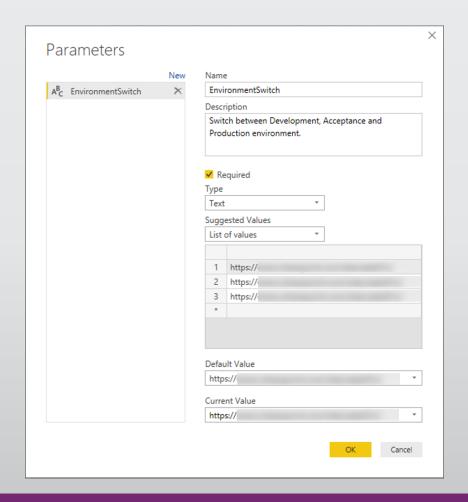


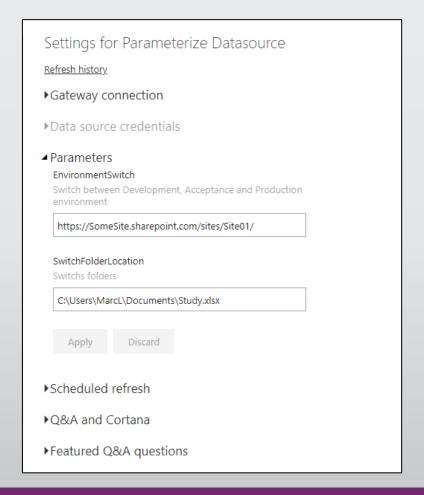
## Deployment scenario (at small scale)





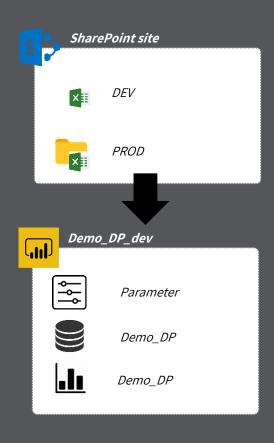
## Deployment scenario (at small scale)





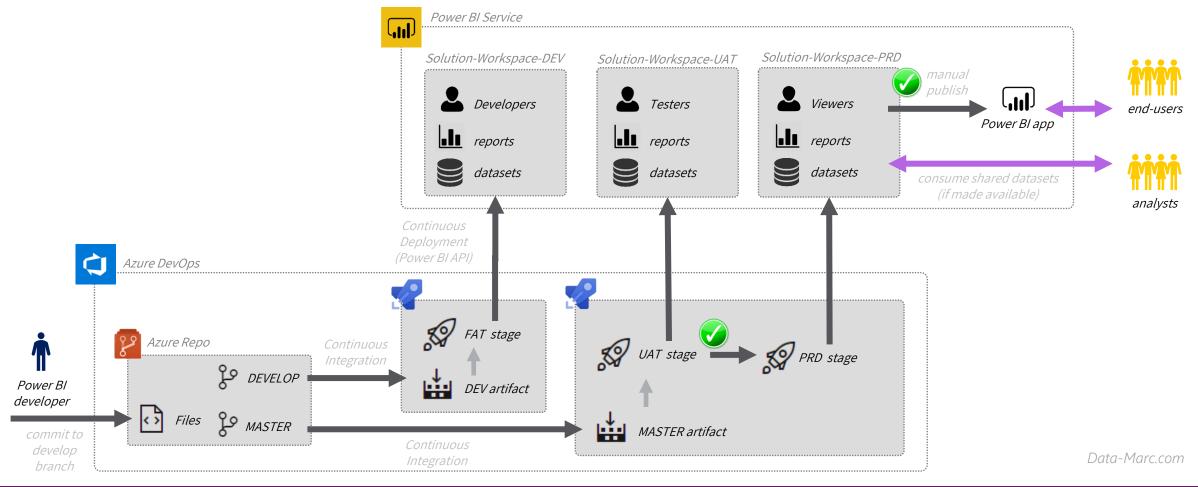


# Demo context





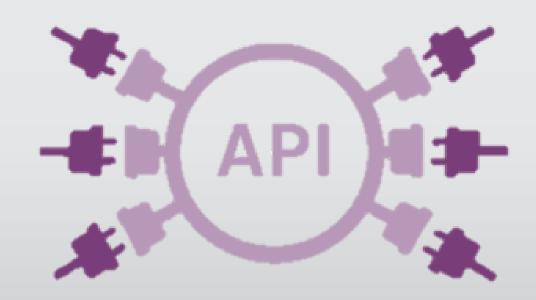
# Deployment scenario (at large scale)





## Deployment scenario (at large scale)

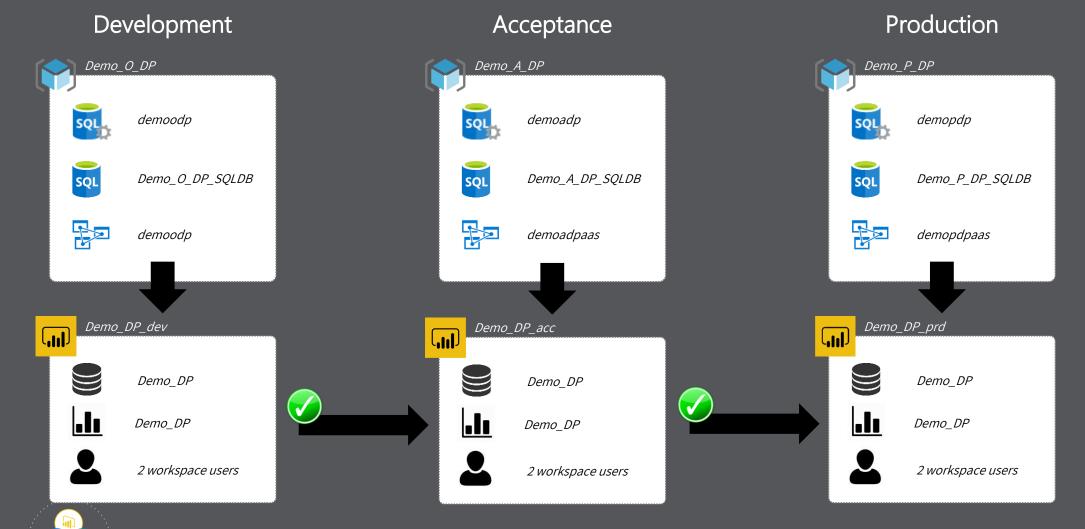






Power BI Service

# Demo context



#Global Power Platform Bootcamp

# Demo time!

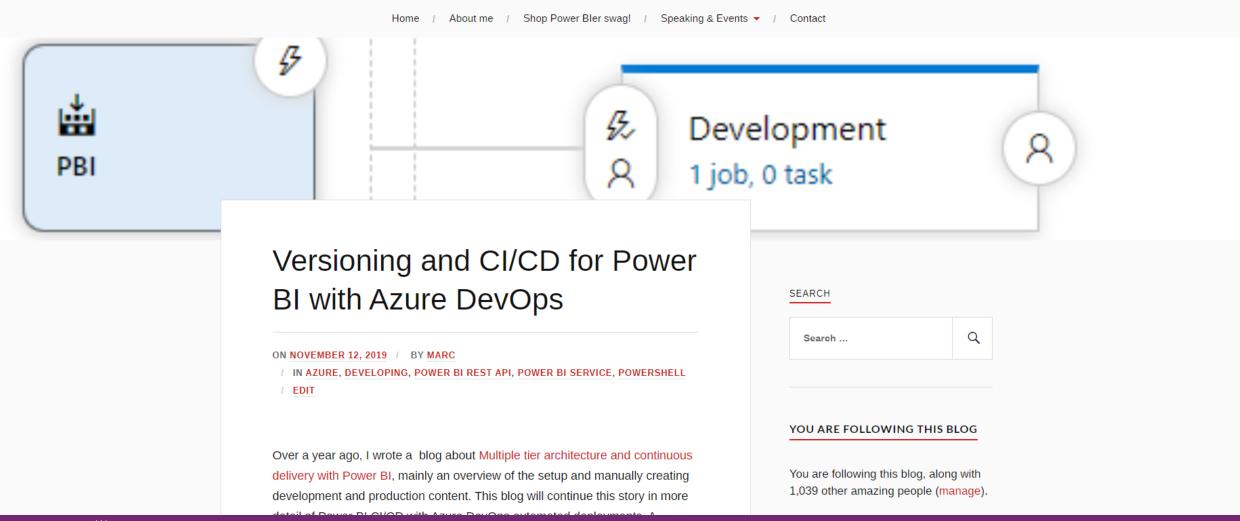
**Because life is boring without risks** 





#### Data – Marc

Blogging about everything related to Data and AI based on Microsoft technology







#### Macaw Power BI Extensions

Macaw | ± 85 installs | ★★★★★ (0) | Free

Power BI release manager tasks for Azure DevOps.

Get it free

Overview Q & A Rating & Review

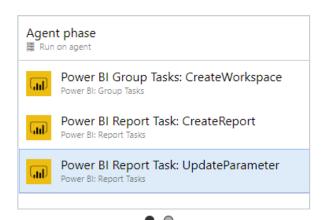
**Macaw Power BI Extensions** is a Build and Release Task for Azure Pipelines. With this tasks you can control your Power BI deployment in Azure DevOps

Actions that can be performed with this extension are:

- · Group tasks
  - Create or Update Power BI workspace
  - Delete Power BI workspace
  - Write all workspace info to JSON logfile
- Report tasks
  - o Create or Update Power BI Report
  - O Delete Power BI Report
  - · Delete Power BI DataSet
  - o Update the datasources of the specified dataset
  - Update the parameters values for the specified dataset

For the custom task to work as it should, you need to configure the following parameters:

- Clientld: The client id of the native Azure Active Directory application. This application should have the
  appropriate rights in order to use the Power BI Api. To register an application, check the following URL: Register
  an Azure AD app to embed Power BI content
- Username: The username of the user that will perform the actions. Make sure the account does not have Multi



#### Categories

Azure Pipelines

#### Works with

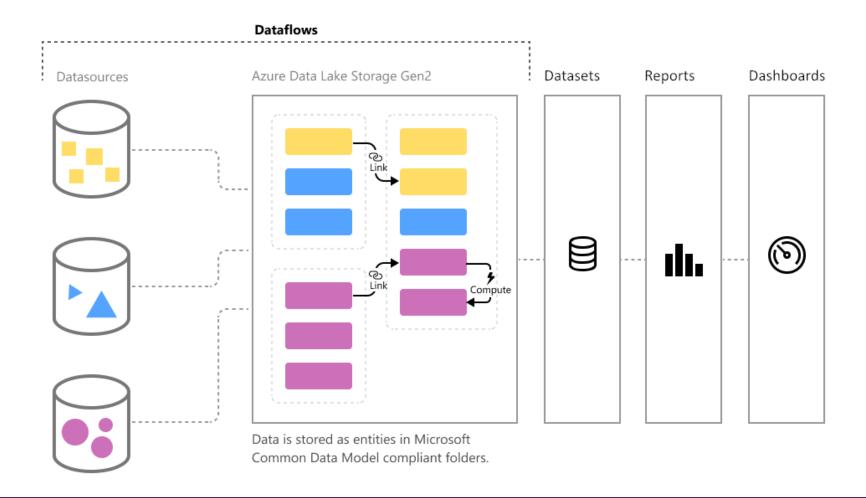
Azure DevOps Services Azure DevOps Server

#### Resources

Liconco



## **But what about dataflows?**





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## Dashboards Reports Workbooks Datasets Dataflows

/ EDIT

### Move dataflows across workspaces with the Power BI REST API

ON OCTOBER 22, 2019 / BY MARC IN DATAFLOWS, DEVELOPING, POWER BI REST API, POWER BI SERVICE, **POWERSHELL** 

Dataflows are part of the Power BI service for a while now. More and more people are starting to benefit from it in multiple perspectives. The two most heard ones are re-use of data (and logic), but also isolate refreshes to avoid dependencies of refresh failures from different sources.

Same as for your data sources, you might have different workspaces setup in

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# Let's do another demo!

And another risk...



## Remarks and alternatives?

### XMLA read/write

01/07/2020 • 2 minutes to read • 🝜

(i) Important

**Some of the functionality described in this release plan has not been released.** Delivery timelines may change and projected functionality may not be released (see <u>Microsoft policy</u>). Learn more: <u>What's new and planned</u>

Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	-	Sep 2020

#### Feature details

XMLA read/write allows third-party BI tools to connect and manage datasets in Power BI Premium. This opens an enormous set of opportunities for additional third-party tool connectivity to enable scenarios like monitoring, lifecycle management, and debugging.



## Remarks and alternatives?

# Deployment pipeline - develop, test, and deploy workspace content

02/03/2020 • 2 minutes to read • -

#### (i) Important

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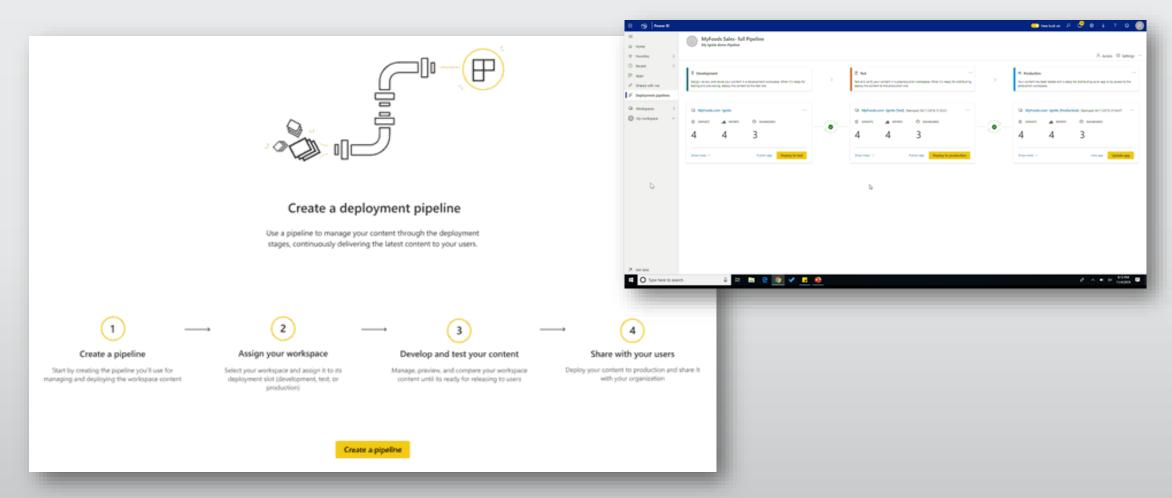
Enabled for	Public preview	General availability
Admins, makers, or analysts, automatically	May 2020	Aug 2020

#### Feature details

Enterprises need proper ALM functionality to support the development, testing, and roll out of strategic BI applications. This Power BI Premium-only feature gives enterprises the ability to maintain development, test, and production environments and incrementally transition artifacts between them, reconfiguring them with the appropriate connections and security settings.



## Remarks and alternatives?





## Recap

- Version history done automatically
- Professionalize your deployment process
- Easy roll-back if needed
- Roll-out more than only Power BI in one go!
- XMLA read/write + Deployment pipelines coming!





## **Download for free!**

https://bit.ly/cheatsheetpbi



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