Just Blindbæk

From Self-service to Enterprise Power BI

Our Partners

Microsoft

Platinum

Quest®

Gold

dbWatch DATABASE CONTROL

redgate

Silver

SOLISYON

Enterprise Training Center

Bronze

PASS

pmOne

UBIDO AN ACP GROUP COMPANY

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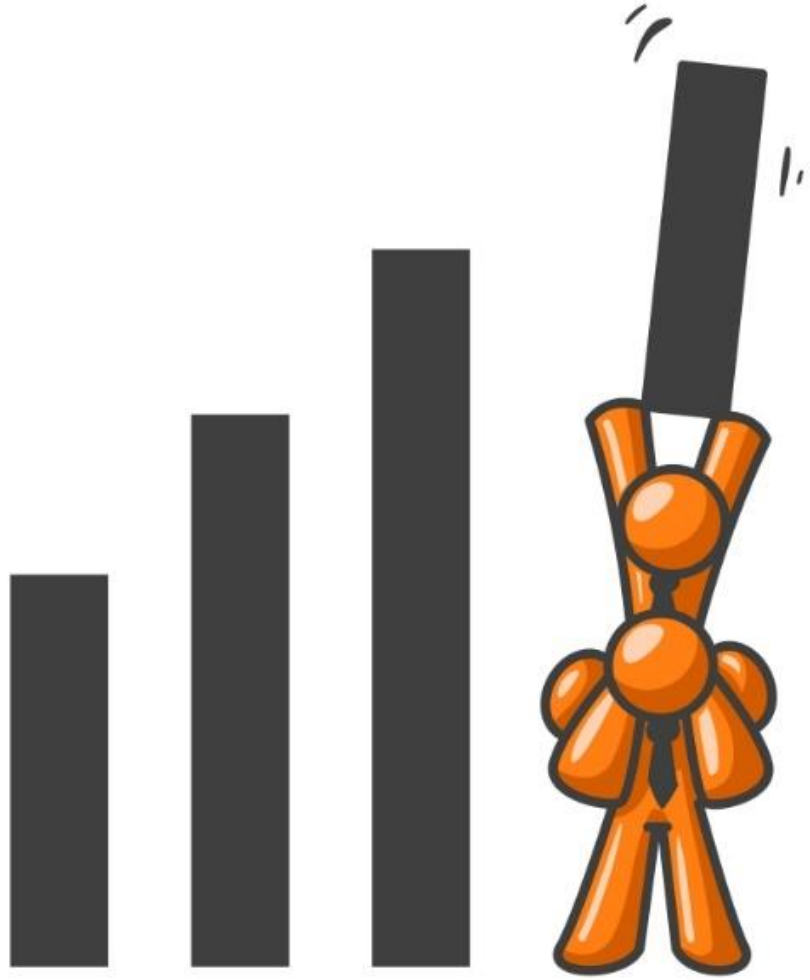
Before we start

Business Users?

IT Professionals?

All in one?



Agenda

Introduction

- Delivery of Power BI
- Business vs. IT

The 5 steps

1. Fix the dataset
2. Transfer the ownership
3. Author the dataset
4. Certify the dataset
5. Brand the reports and apps

Delivery of Power BI

Self-service vs. Enterprise BI

Delivering Power BI is not easy

Business users

Complete and powerful self-service BI

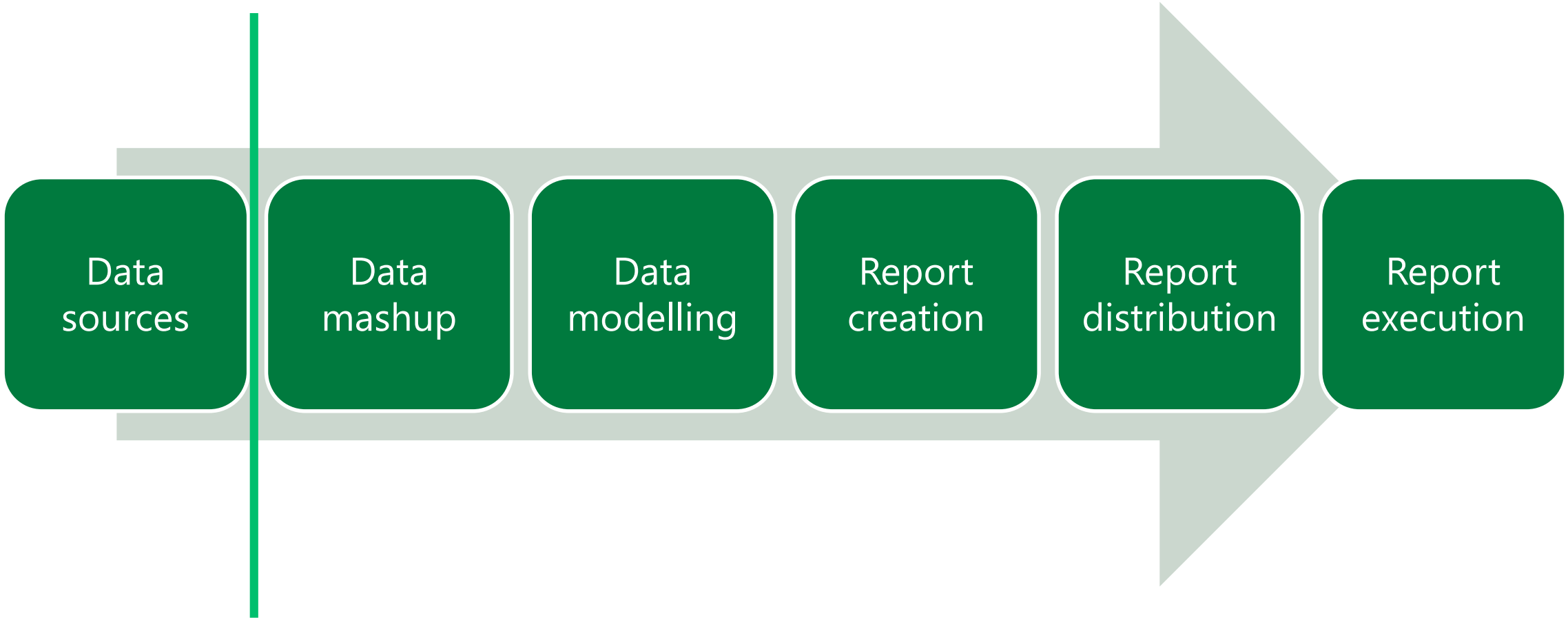
IT Professional

Enterprise grade governance and scale

Agility

Control

Power BI development: IT vs Business



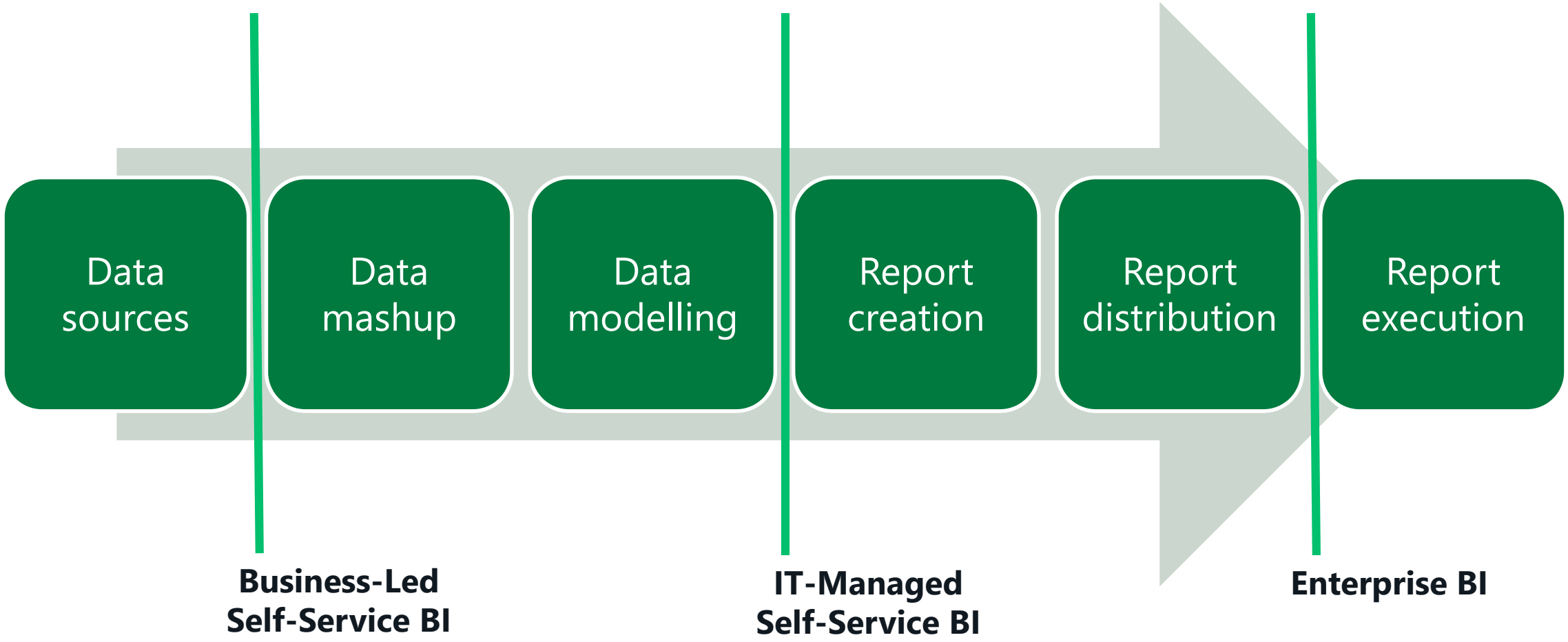
Power BI Delivery Approaches

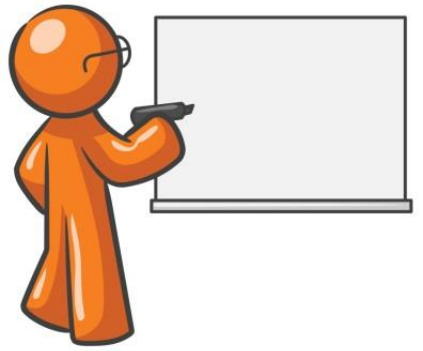
Business-Led Self-Service BI	IT-Managed Self-Service BI	Enterprise BI
Bottom-Up Approach	Blended Approach	Top-Down Approach
Analysis using any type of data source; emphasis on data exploration and freedom to innovate	A "managed" approach wherein reporting utilizes only predefined/governed data sources	Utilization of reports and dashboards published by IT for business users to consume
Ownership: Business supports all elements of the solution	**Ownership:** IT: data + semantic layer Business: reports	**Ownership:** IT supports all elements of the solution
Business users: Data mashup, data modeling, report creation, distribution & execution	**Business users:** Creation of reports and dashboards	**Business users:** Execution of published reports
Governed by: Business	**Governed by:** IT: data + semantic layer Business: reports	**Governed by:** IT

Ownership Transfer

Over time, certain self-service solutions deemed as critical to the business may transfer ownership and maintenance to IT. It's also possible for business users to adopt a prototype created by IT.

Power BI Ownership Approaches





(1) Fix the dataset

Star schema all the things

Star schema all the things

Denormalize

One table for each business entity

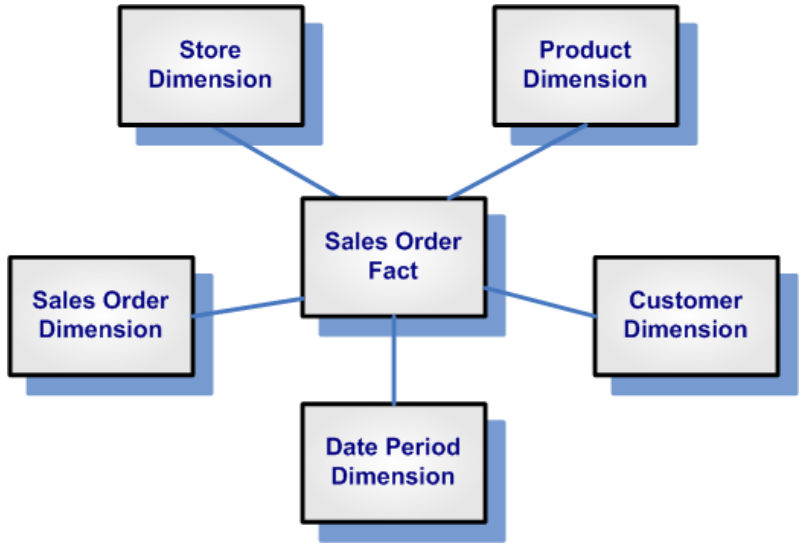
- Attributes of an entity in the same table
- Customer, product, resellers, sales

Separation between facts and dimensions

- Fact: something that happened
- Dimension: something that describes a fact

Pros

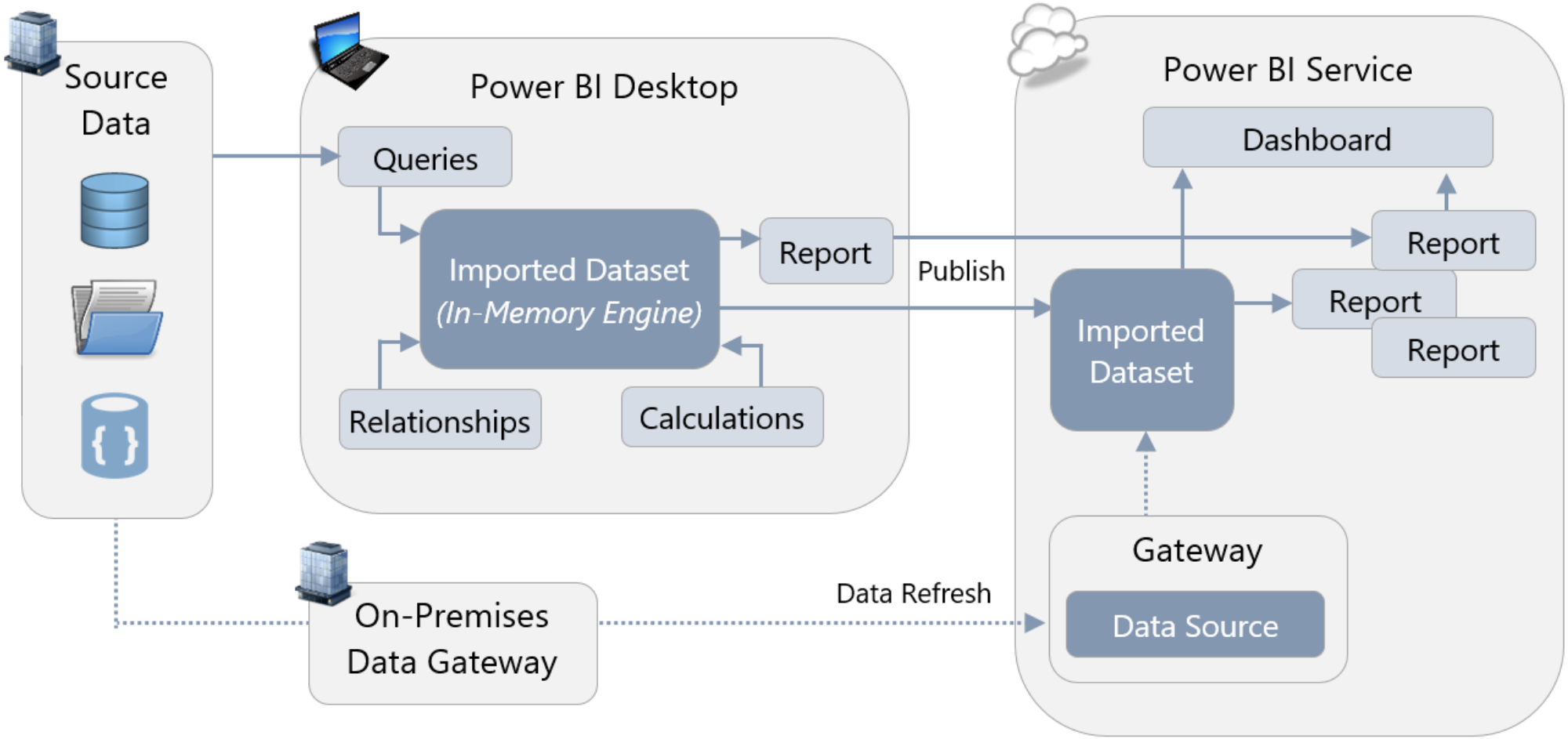
- Very easy to understand at first glance
- Very fast
- DAX code is simple, as it should be



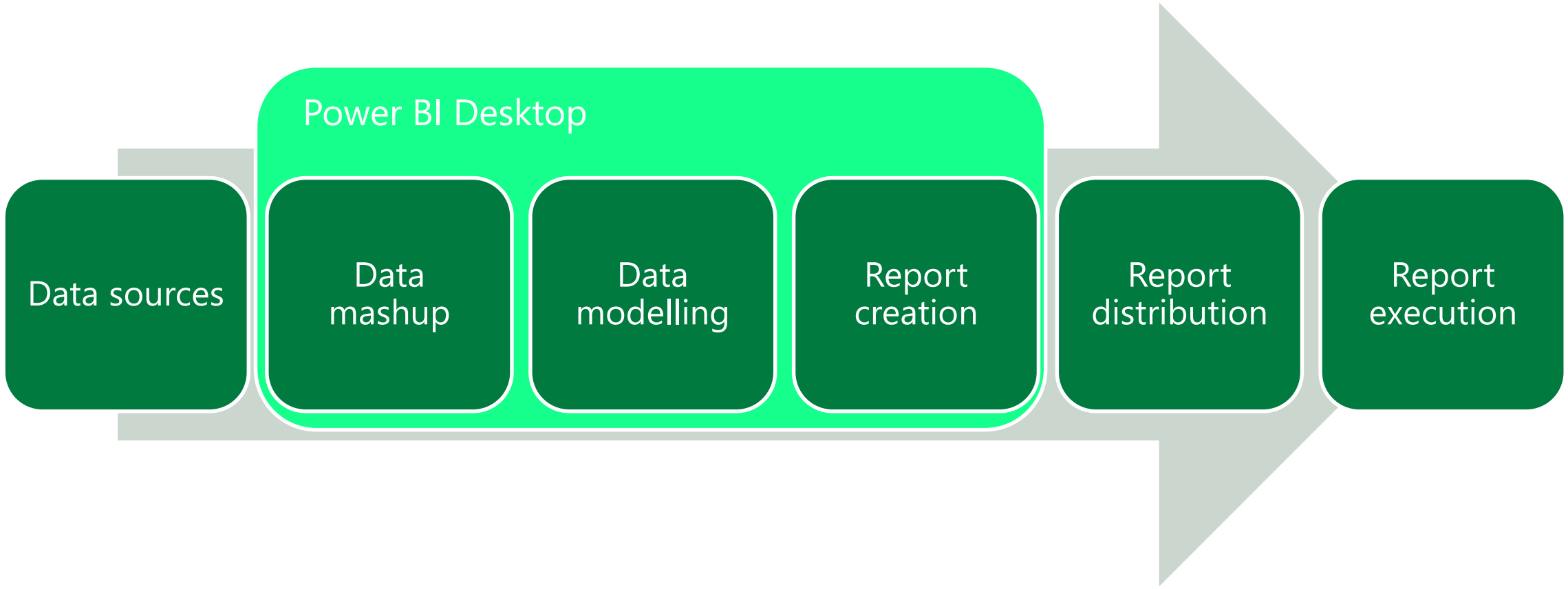
(2) Transfer the ownership

Split the PBIX file

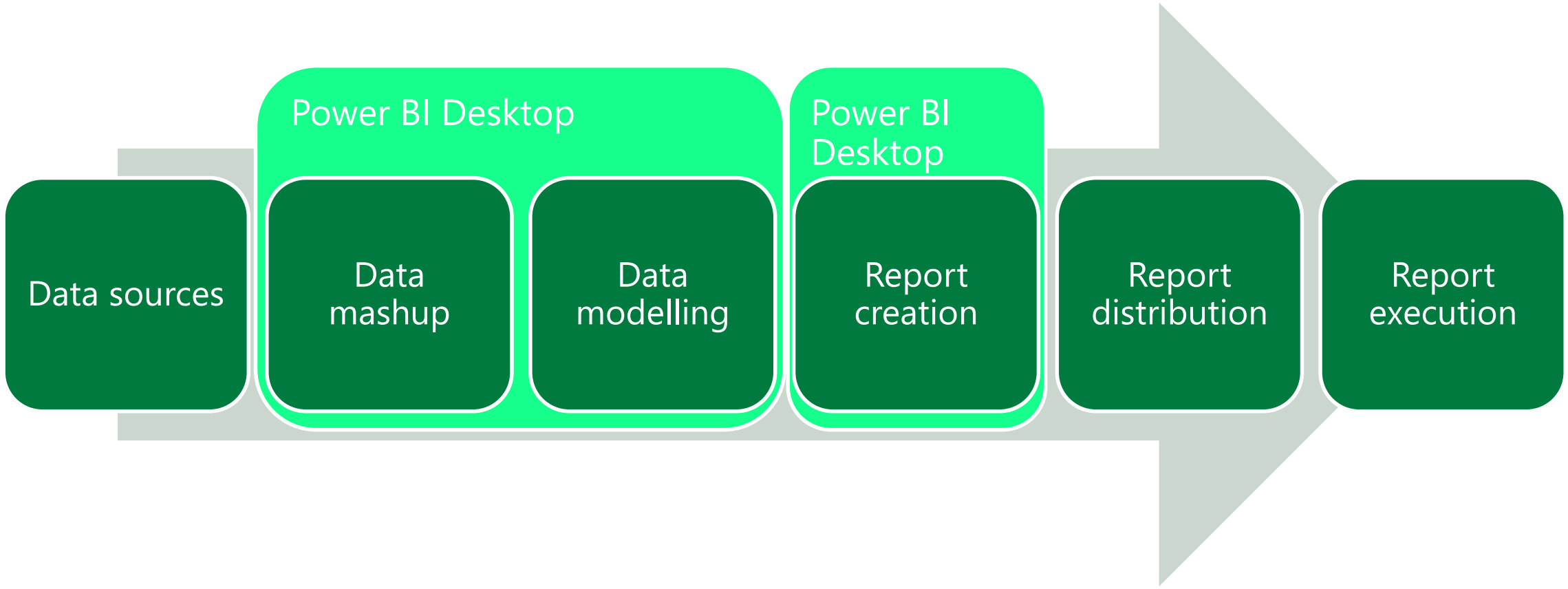
Business-Led Self-Service BI



Business-Led Self-Service BI



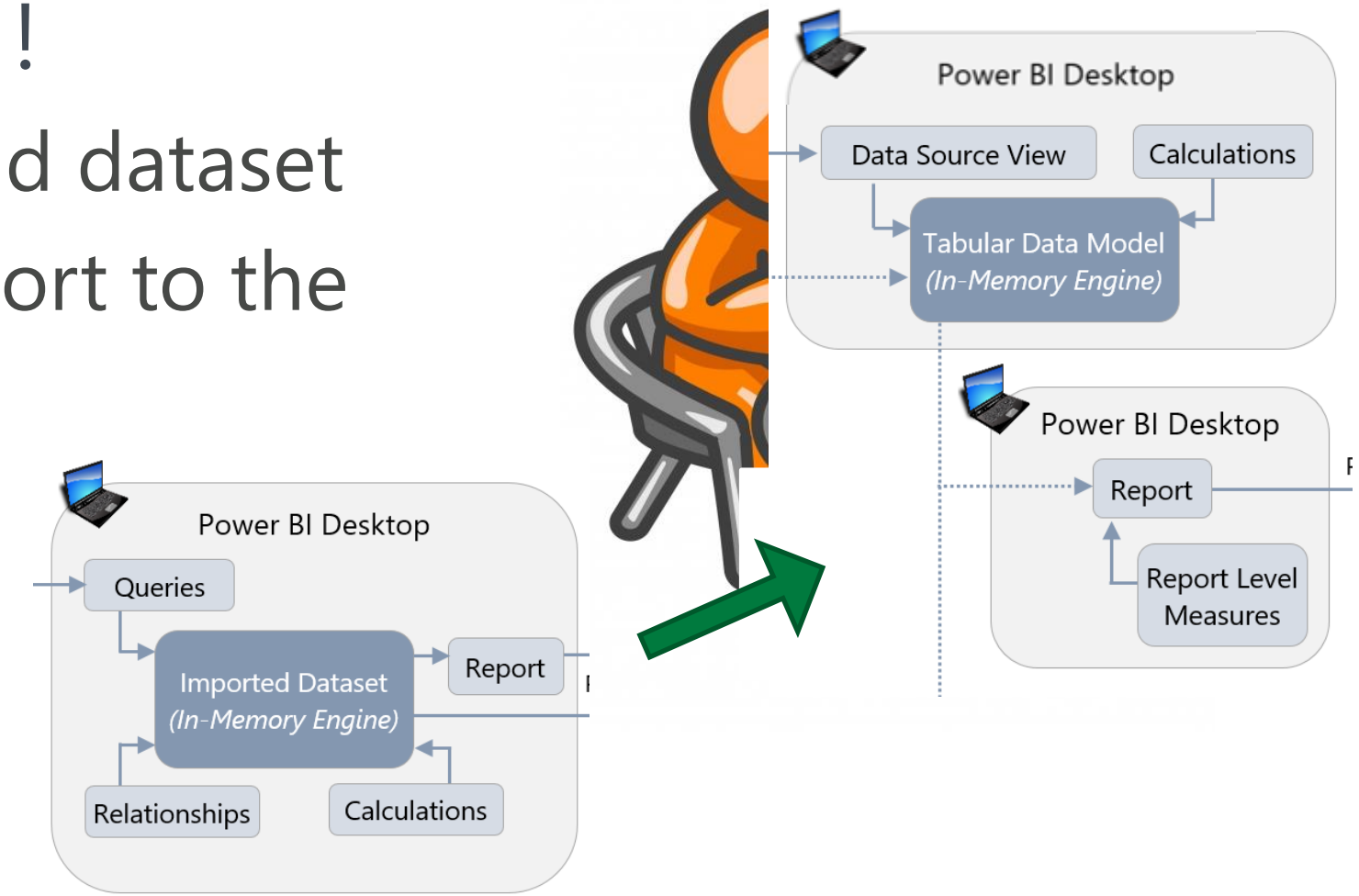
IT-Managed Self-Service BI



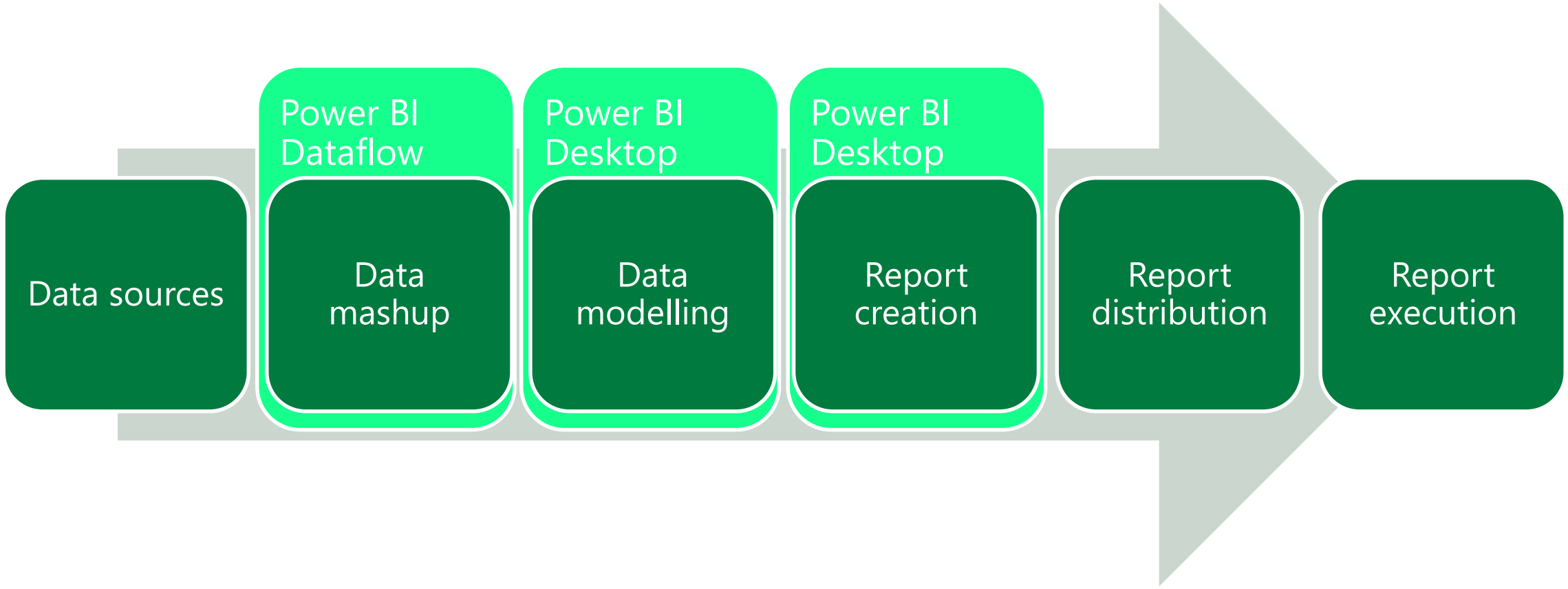
Demo: Ownership transfer

Let se some Magic !

- Split the report and dataset
- Connect more report to the same dataset



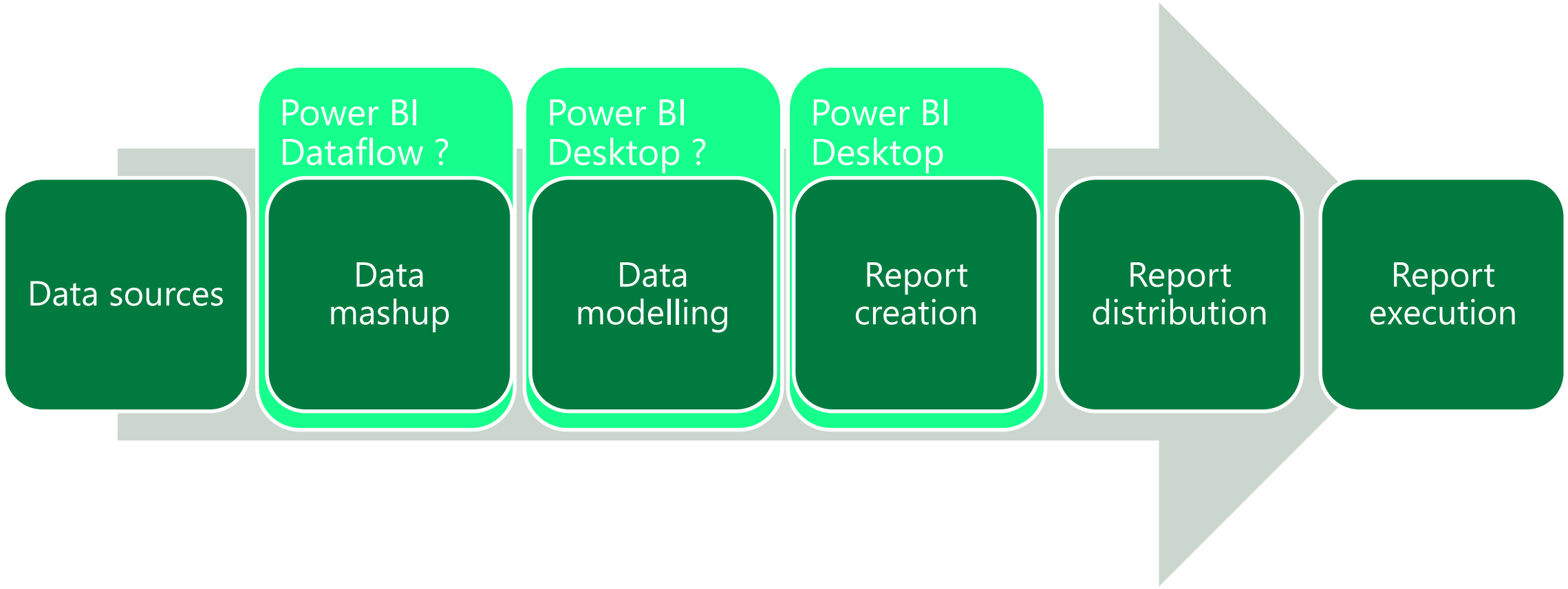
Taking it one step further



(3) Authoring the dataset

Modify and build your datamodel
as a PRO developer ☺

Pro development in Power BI Desktop?



Pro development in Power BI Desktop?

Power BI Desktop might not be the best tool for the Data Engineer or BI Developer

Increase productivity

Development lifecycle

- Version control
- Deployment processes

XMLA endpoints – open-platform connectivity

XMLA is the same protocol used for managing SQL Server Analysis Services and Azure Analysis Services models, a variety of Microsoft and third-party tools can be used with Power BI datasets

Analysis Services engine in the Power BI service

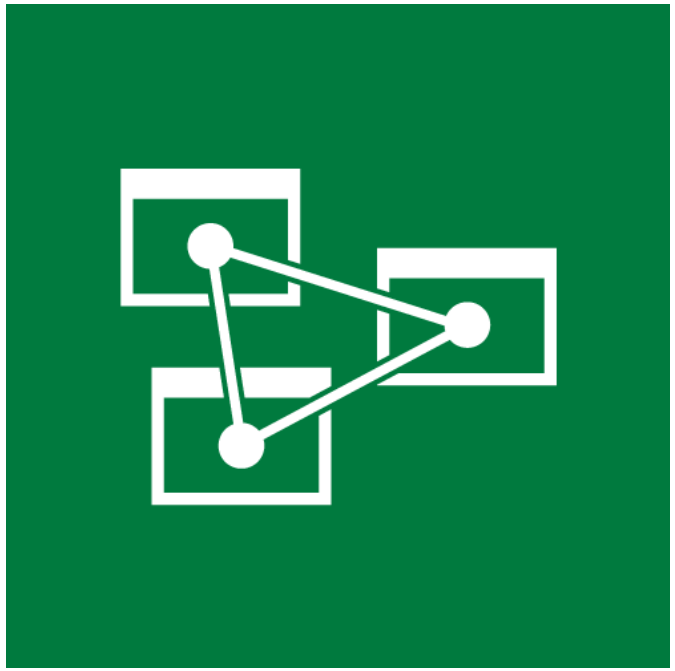
Taking **transfer ownership** to the NEXT level

Preview feature!

Requires Premium capacity!

Power BI merging with Azure AS

Enterprise BI **All BI users** **Self-service BI users**

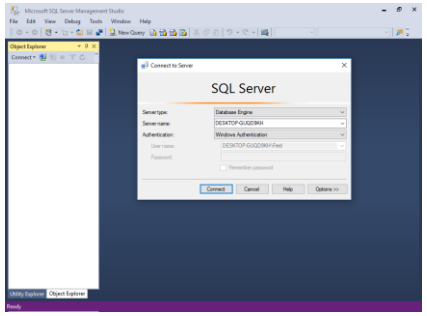


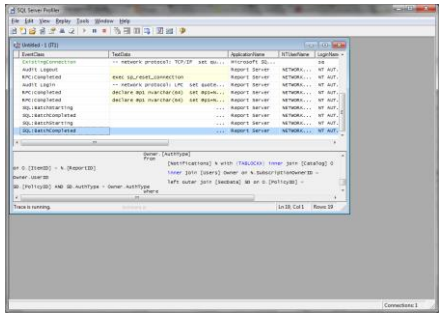
Azure Analysis Services

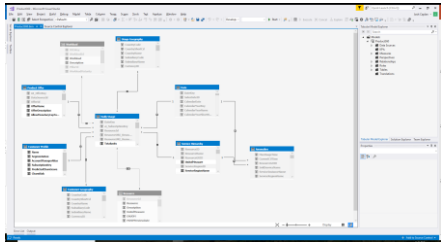
Power BI Premium

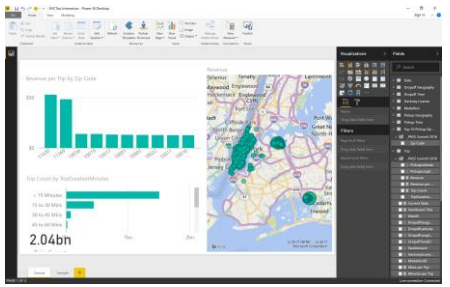
Power BI

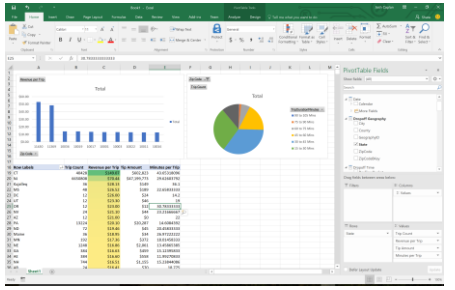
Connectivity: Analysis Services

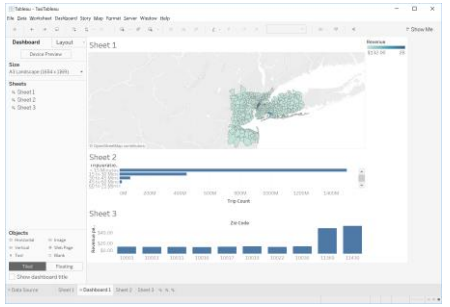












Security

In-memory cache

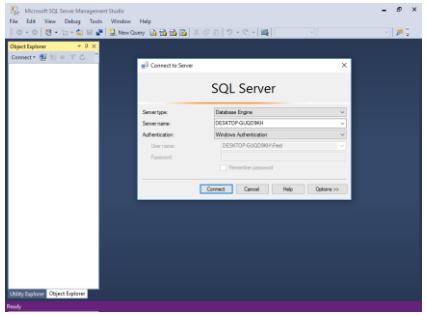
Data modeling

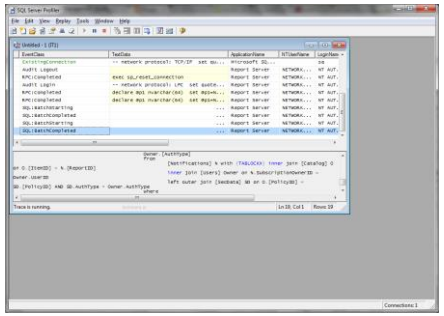
Azure Analysis Services Server

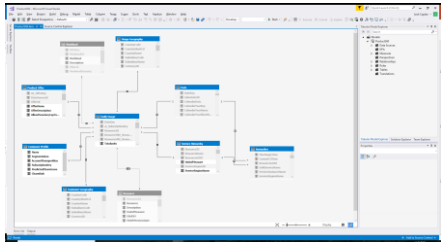
Lifecycle management

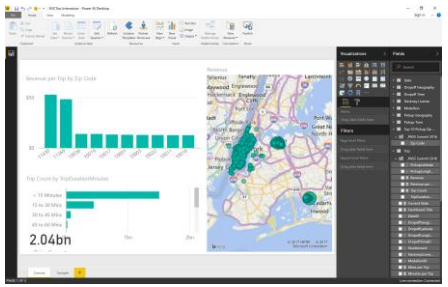
Business logic & metrics

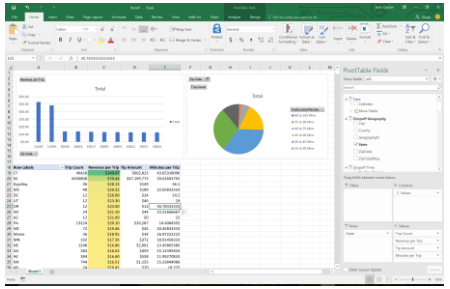
Connectivity: Power BI Premium

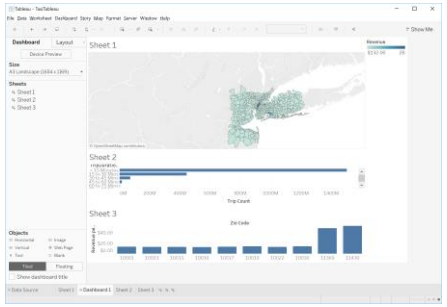












Security

Data modeling

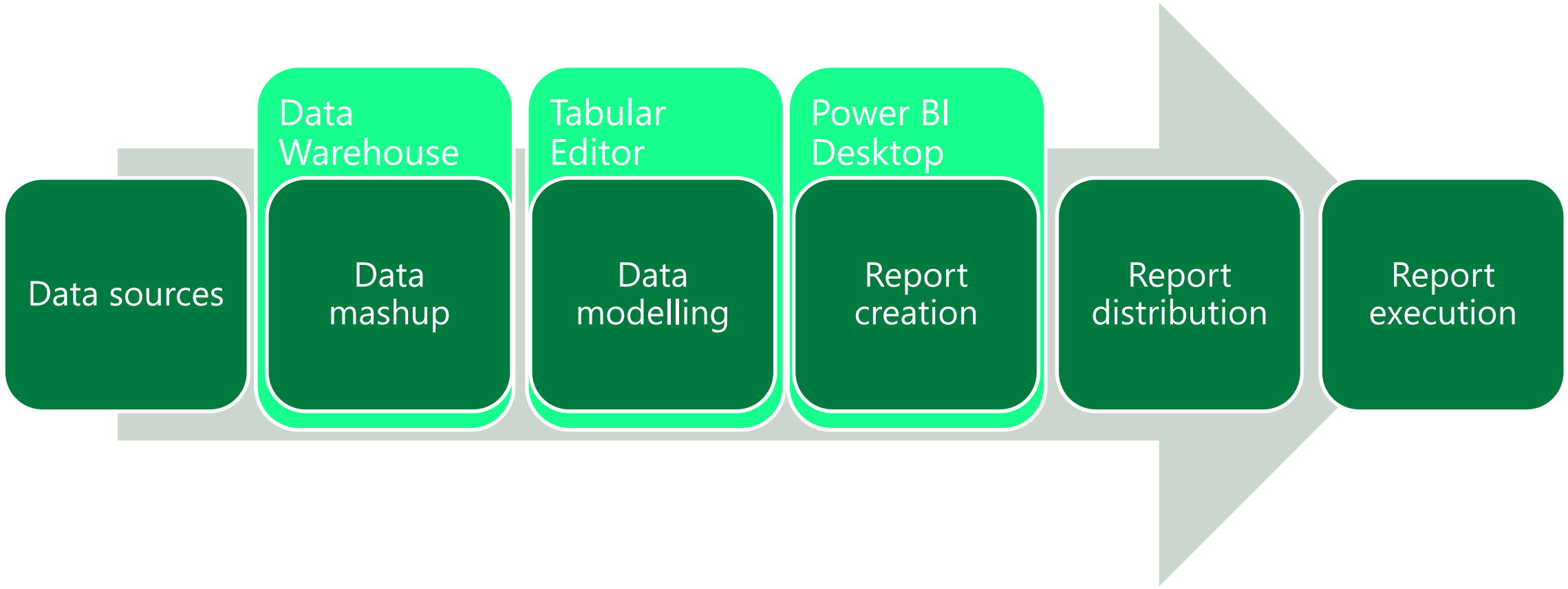
In-memory cache

Workspace

Lifecycle management

Business logic & metrics

Pro development: DWH and Tabular Editor



(4) Certify the dataset

The single version of the truth

The “Golden” dataset

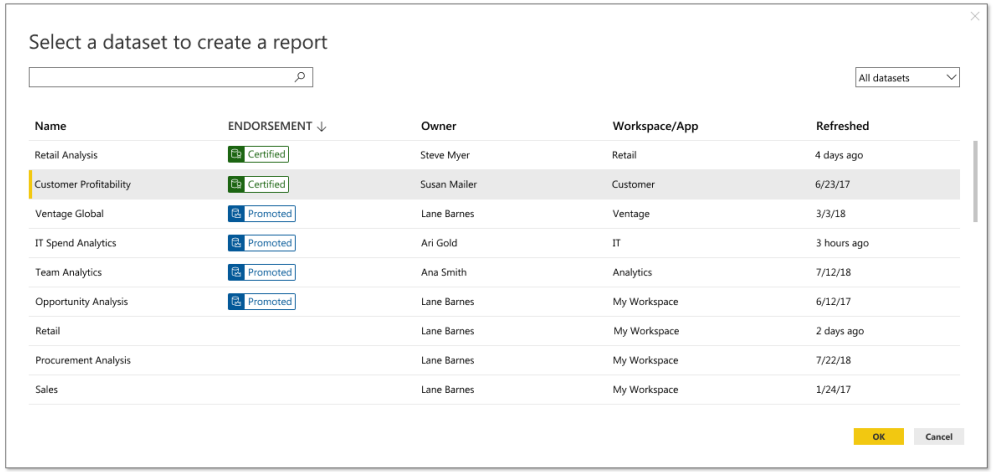
Shared and certified datasets

Reuse and preserves a single version of the truth

Find reliable and high-quality data quickly and easily in both the service and Power BI Desktop

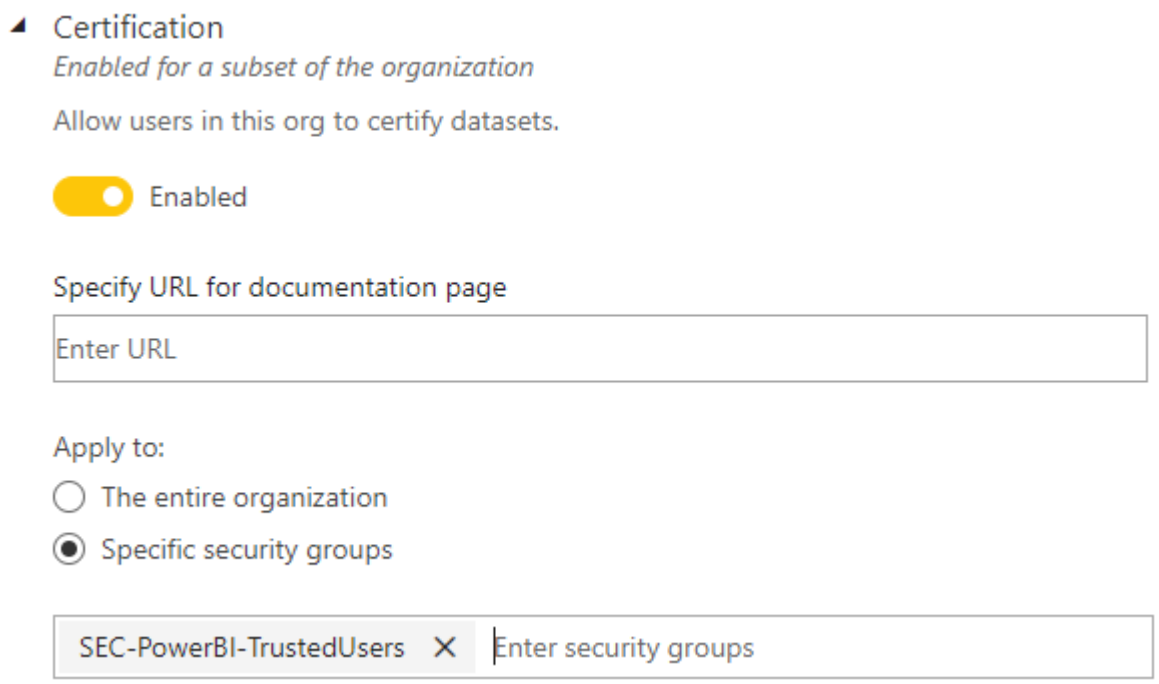
Single dataset to be used by multiple reports, across workspaces

Golden datasets

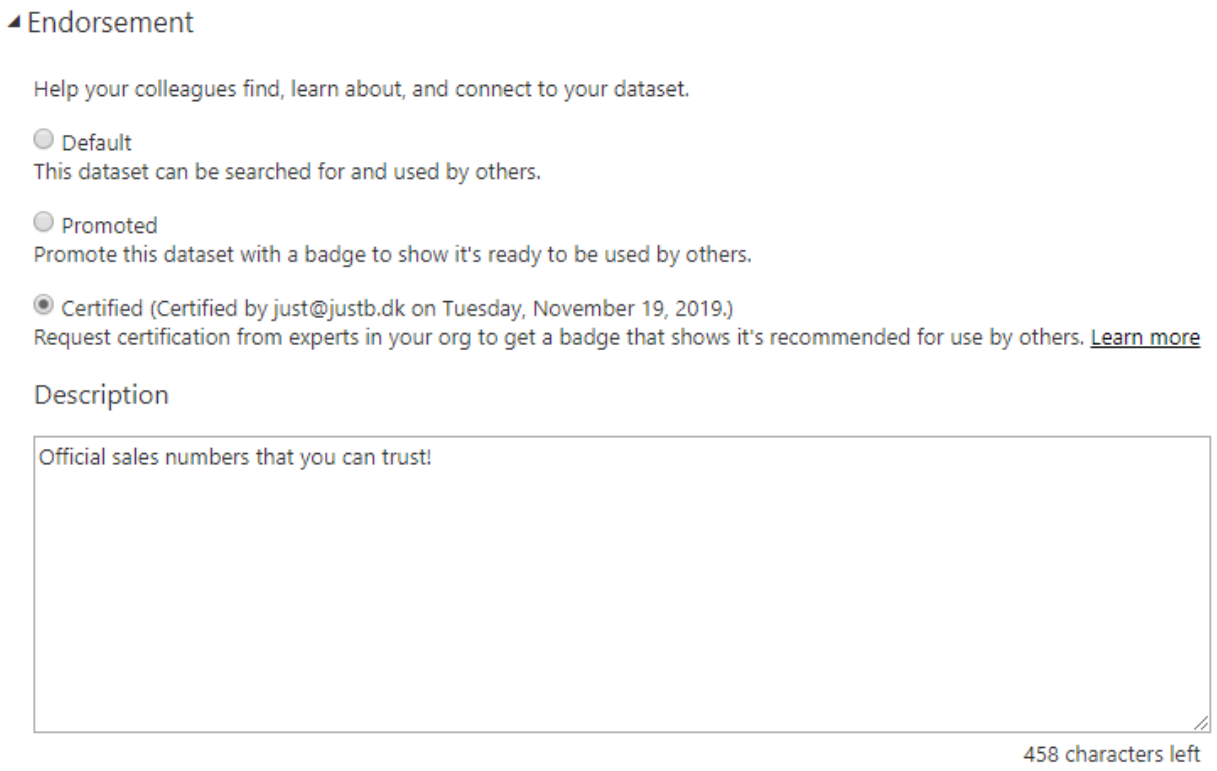


Certification and Endorsement

Admin Portal



Dataset settings



(5) Branding

Certify the Reports and Apps

Private and App Workspaces

Everyone has their own private workspace they can publish to. Its called: “My Workspace”. **Only** use it for:

- Personal usage
- Testing purposes

App **Work**spaces is somewhere report developers can **work together** on the same business problem

When you create an App Workspace you become its administrator and

- Control its access and sharing settings
- Add/remove members, contributors and viewers

Use Apps for controlled distribution

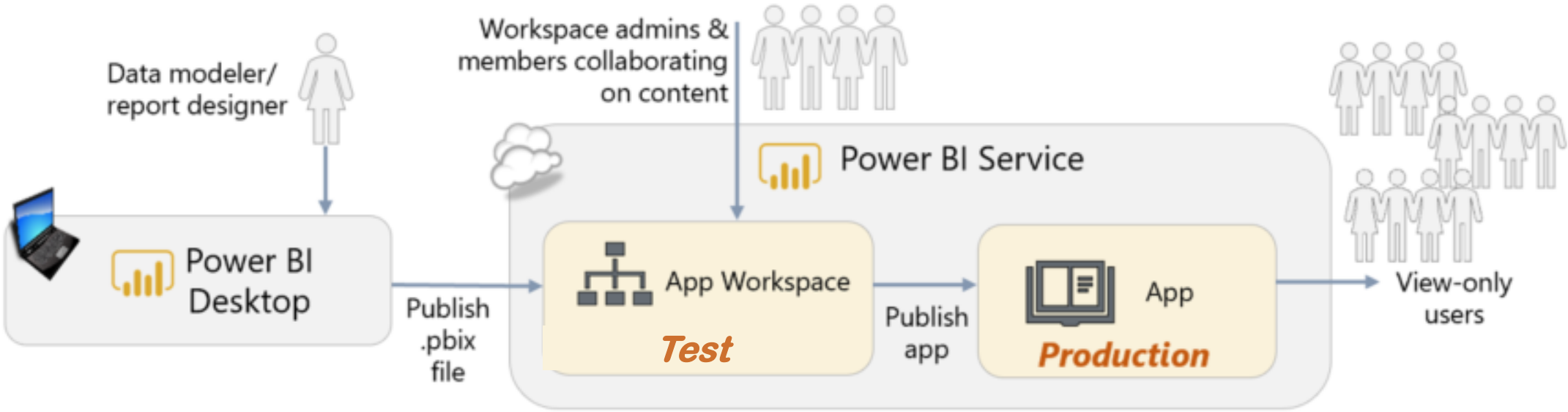
The contents of App Workspaces can be published as Apps
- Possible to exclude items

Other users can then ‘install’ the App or have it pushed to them

When users install an App they can see the dashboards and reports in there
- They can interact with slicers
- They cannot edit the reports or dashboards

New App navigation experience!
- Customize the name and logo of your app
- Setup navigation

Simple App deployment process



Branding

Certify Reports

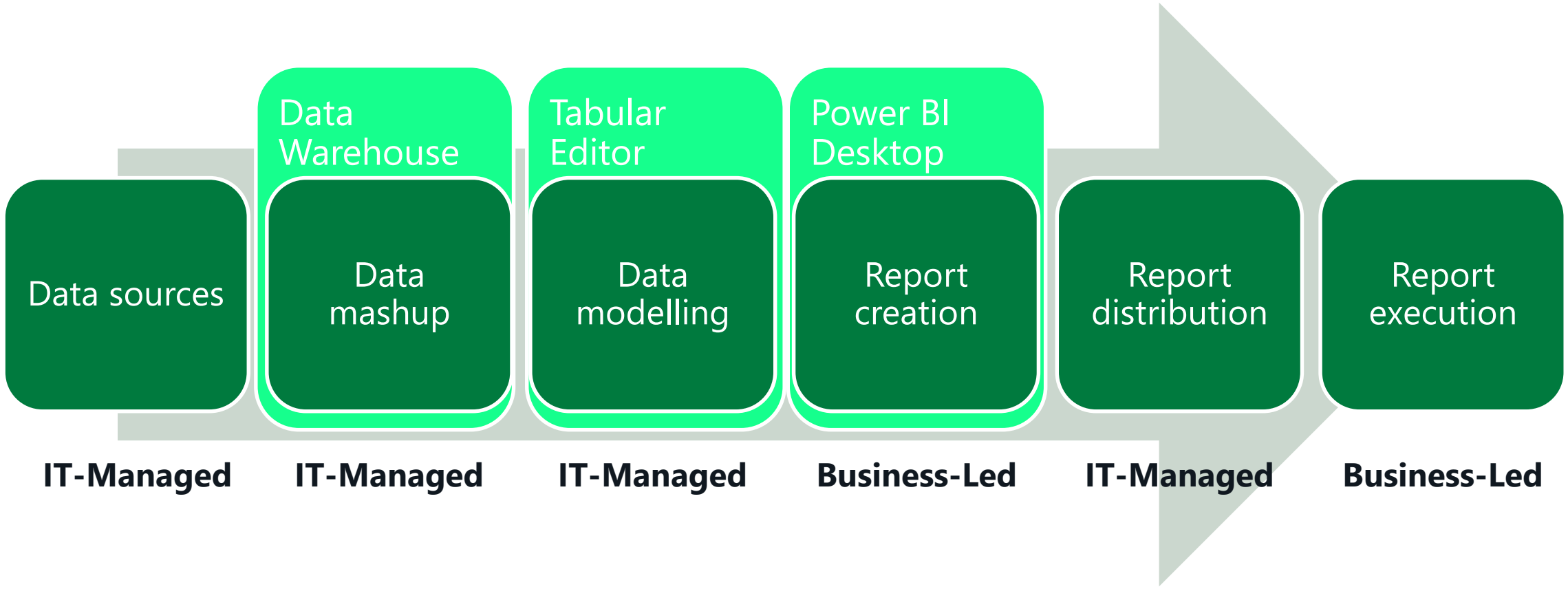
- Add background image

Certify Apps

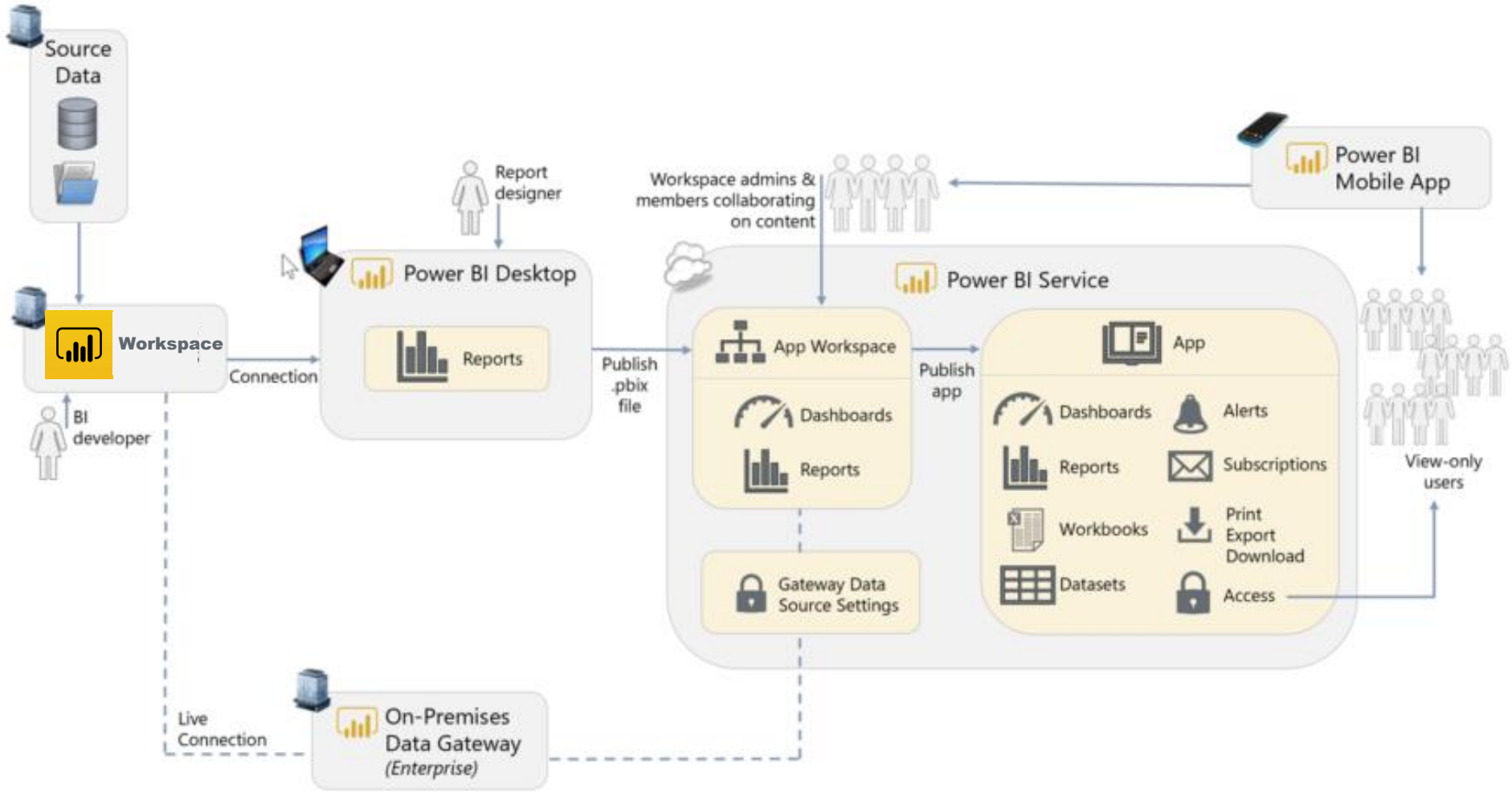
- Add app icon
- Support site
- Link in navigation

Wrapping it up

IT-Managed distribution



Full architecture: IT-Managed Self-Service BI

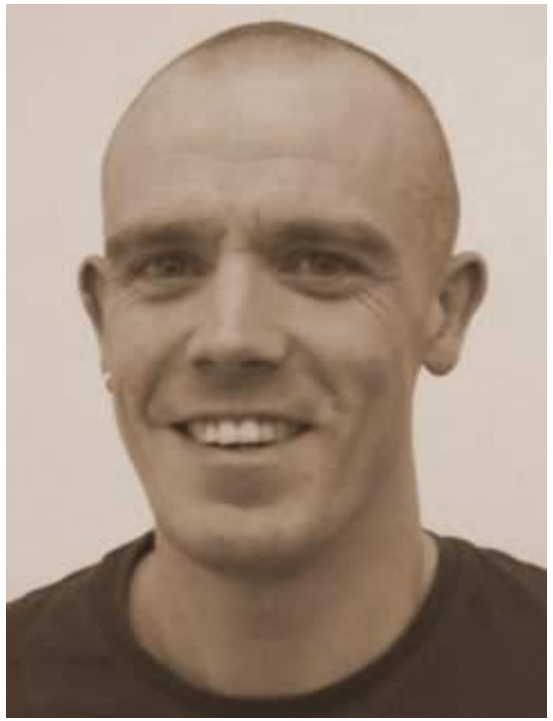


Questions

Just Thorning Blindbæk

Self-employed BI consultant in justB
Trainer at Orange Man
Founder
- Danish Microsoft BI Community (MsBIP.dk)
- Power BI UG Denmark (PowerBI.dk)

Strong focus on the front-end tools
- Analysis Services
- Reporting Services
- PerformancePoint Services
- Excel and Power Pivot
- Power BI



Microsoft CERTIFIED Trainer

Microsoft CERTIFIED IT Professional

SSAS MAESTRO by Microsoft

MVP Microsoft® Most Valuable Professional

just@blindbaek.dk / blog.justB.dk / @justblindbaek

Usefull ressources

Planning a Power BI Enterprise Deployment (whitepaper): https://go.microsoft.com/fwlink/?linkid=2057861

The importance of star schemas: https://www.sqlbi.com/articles/the-importance-of-star-schemas-in-power-bi/

Shared and certified datasets: https://powerbi.microsoft.com/en-us/blog/heads-up-shared-and-certified-datasets-are-coming-to-power-bi/

XMLA endpoints: https://powerbi.microsoft.com/en-us/blog/power-bi-open-platform-connectivity-with-xmla-endpoints-public-preview/

Tabular Editor: https://tabulareditor.github.io/

App navigation: https://powerbi.microsoft.com/en-us/blog/designing-custom-navigation-for-power-bi-apps-is-now-available/

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