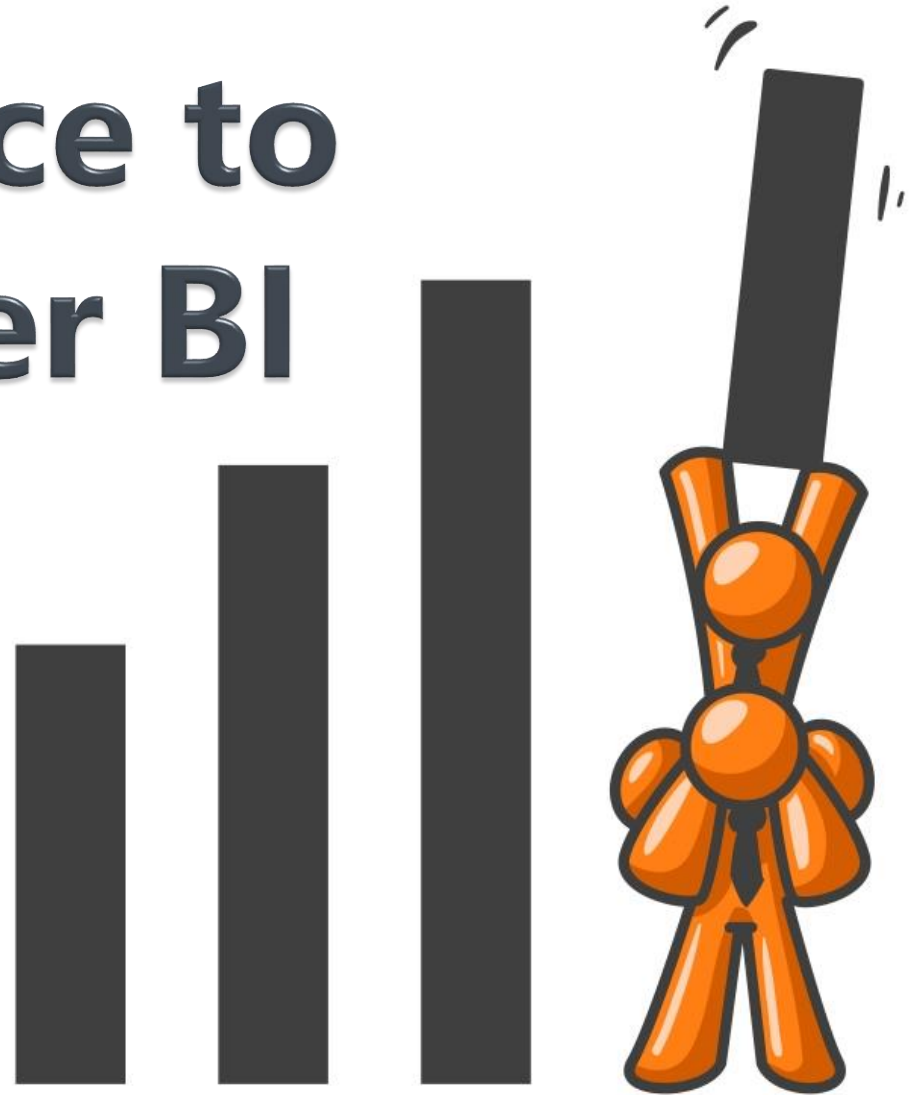


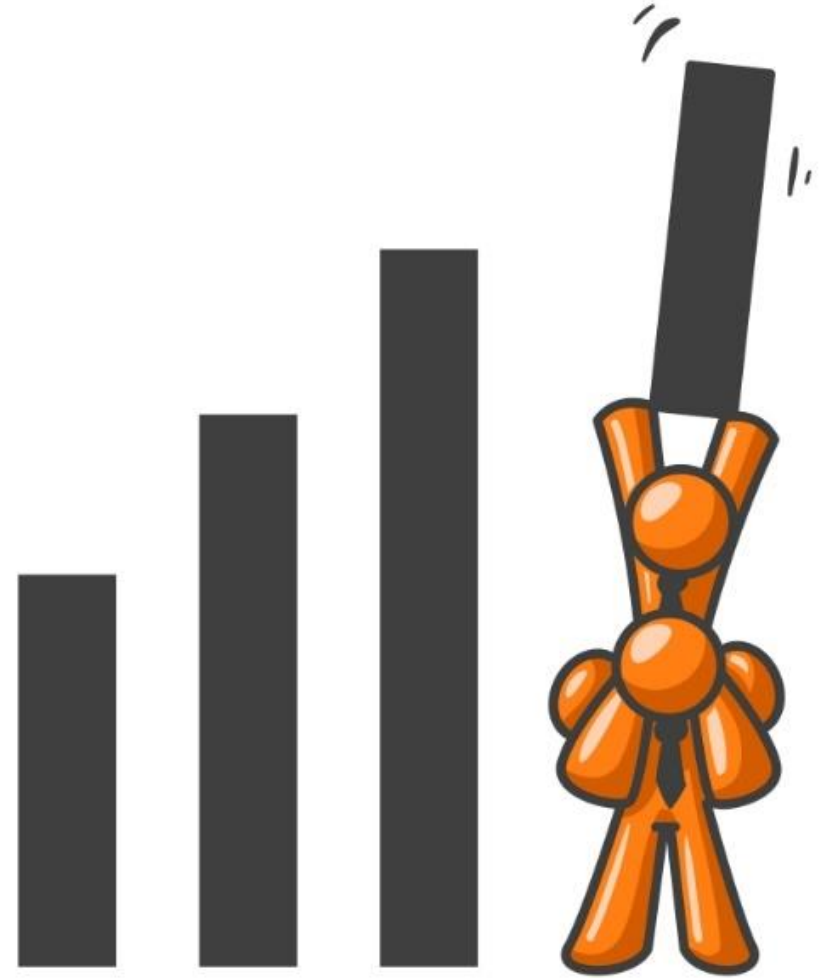
From Self-service to Enterprise Power BI

Just Blindbæk



Before we start

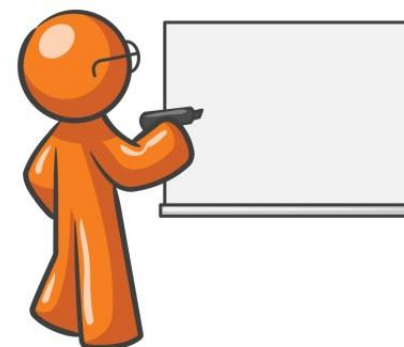
- ▶ Business Users?
- ▶ IT Professionals?
- ▶ All in one?



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

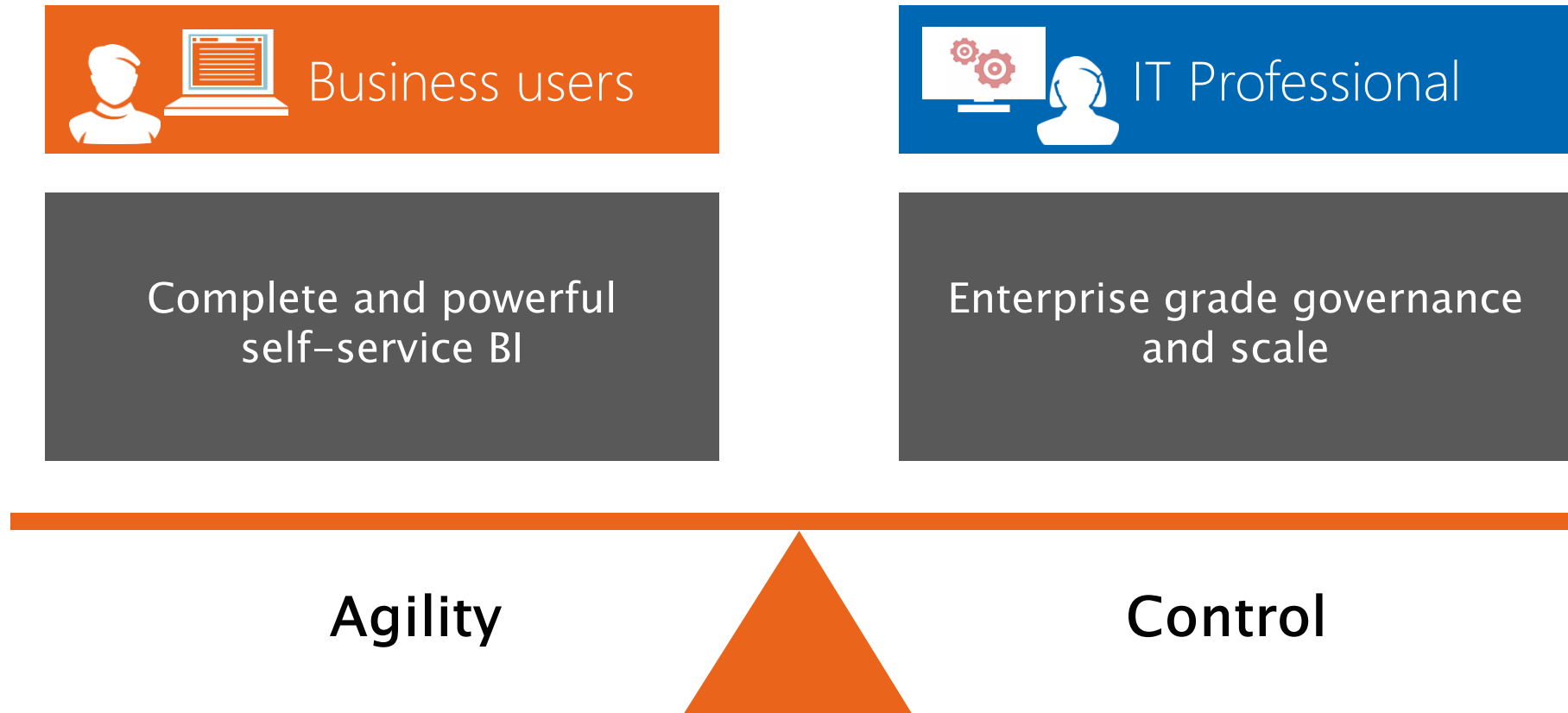




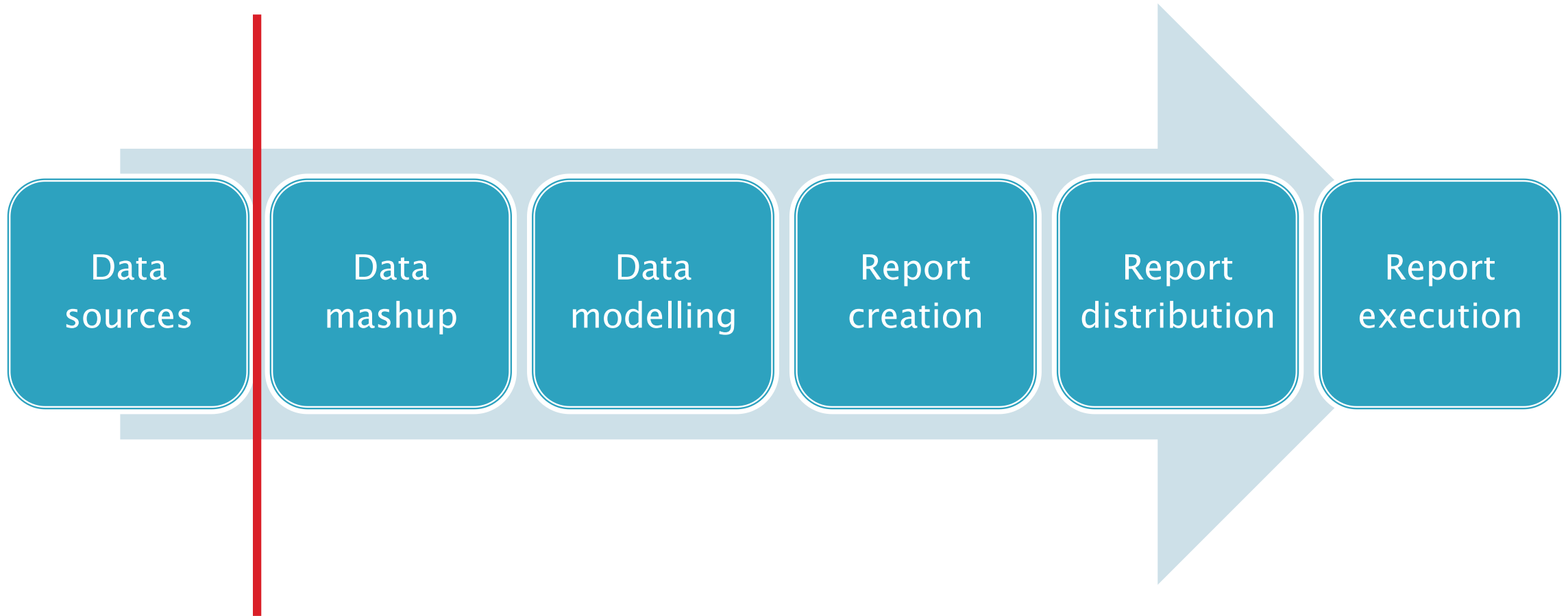
Delivery of Power BI

Self-service vs. Enterprise BI

Delivering Power BI is not easy



Power BI development: IT vs Business



Power BI Delivery Approaches

Business-Led Self-Service BI



Bottom-Up Approach

Analysis using any type of data source; emphasis on data exploration and freedom to innovate

Ownership:

Business supports all elements of the solution

Business users:

Data mashup, data modeling, report creation, distribution & execution

Governed by:

Business

IT-Managed Self-Service BI



Blended Approach

A “managed” approach wherein reporting utilizes only predefined/governed data sources

Ownership:

IT: data + semantic layer
Business: reports

Business users:

Creation of reports and dashboards

Governed by:

IT: data + semantic layer
Business: reports

Enterprise BI



Top-Down Approach

Utilization of reports and dashboards published by IT for business users to consume

Ownership:

IT supports all elements of the solution

Business users:

Execution of published reports

Governed by:

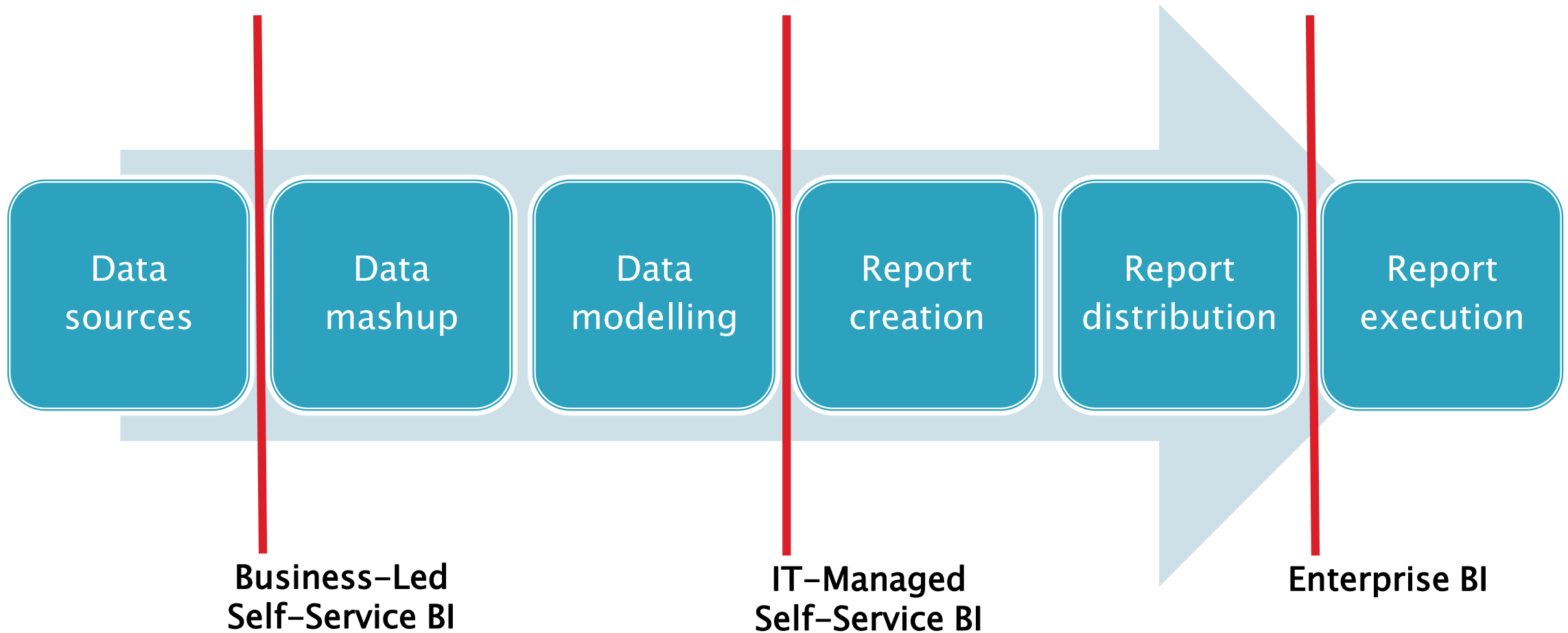
IT

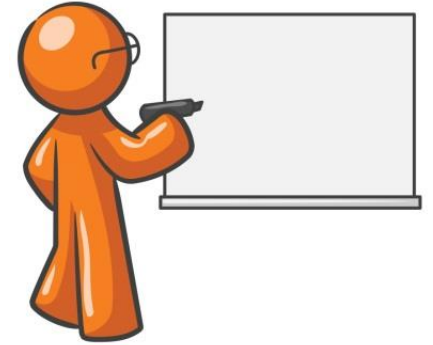


Ownership Transfer

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



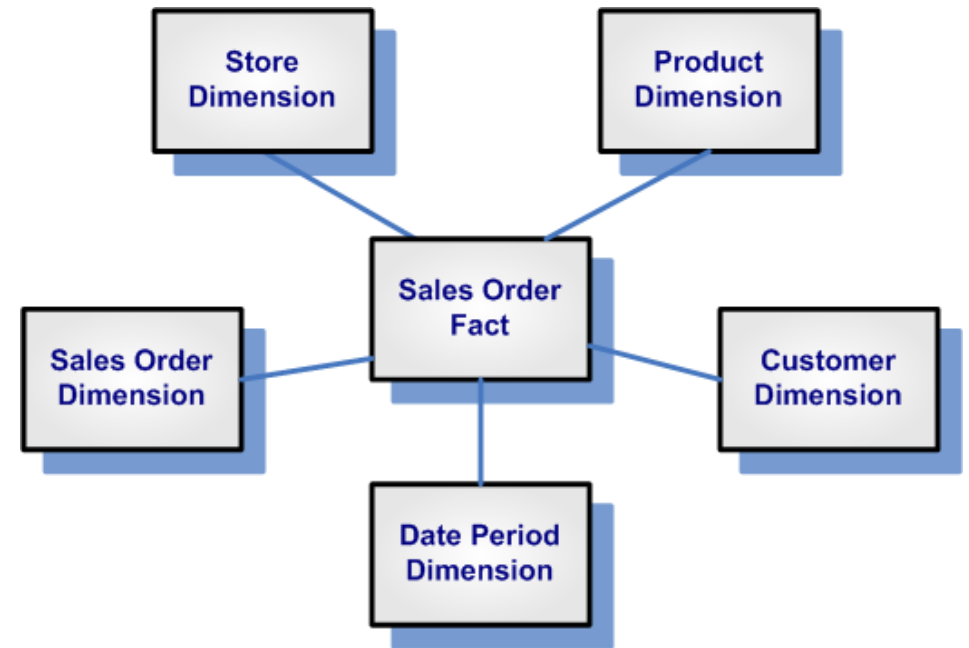


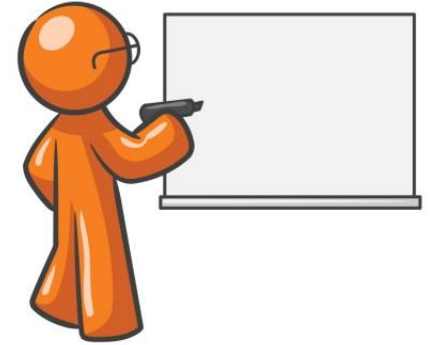
(1) Fix the dataset

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

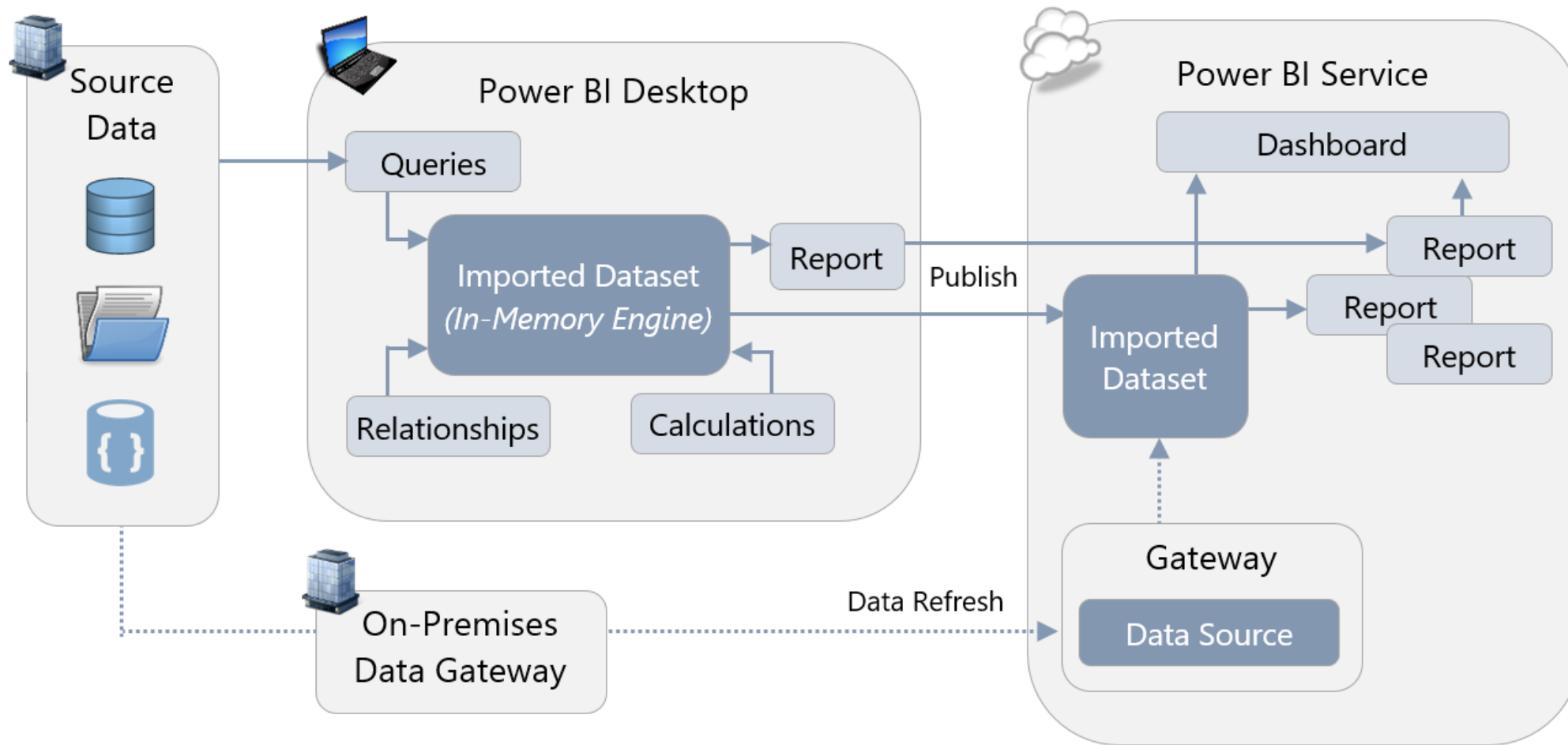




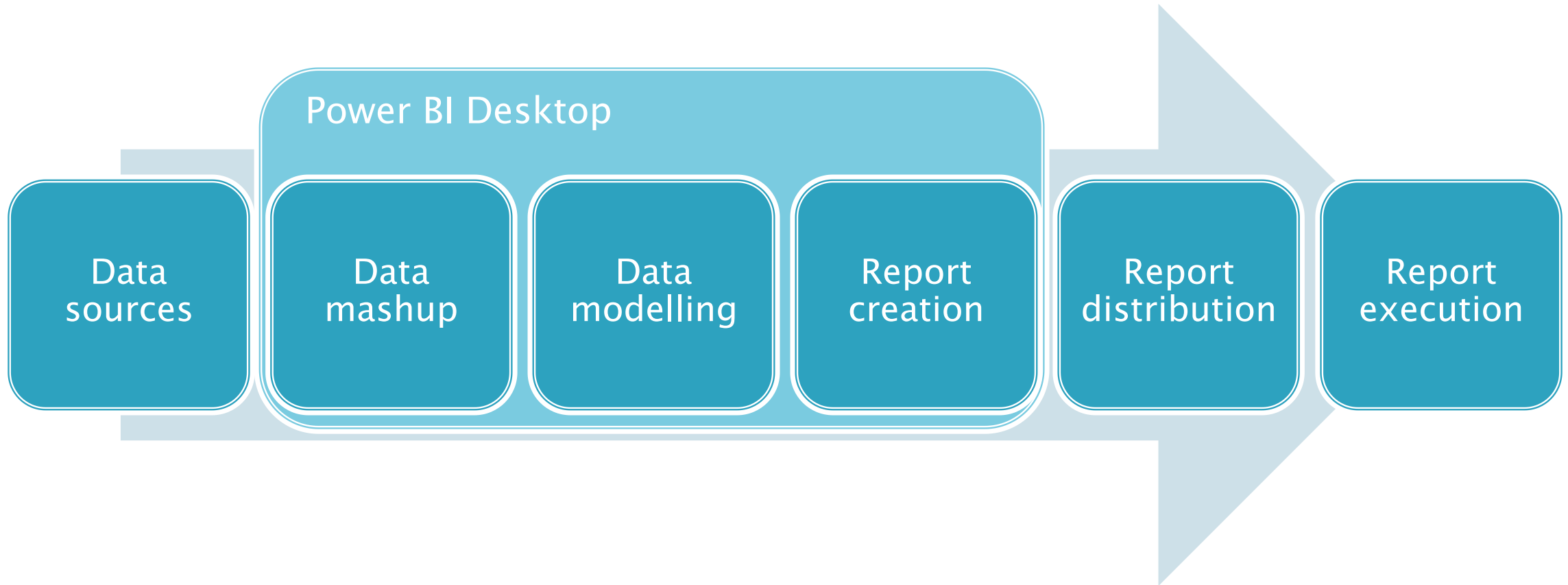
(2) Transfer the ownership

Split the Power BI Desktop file

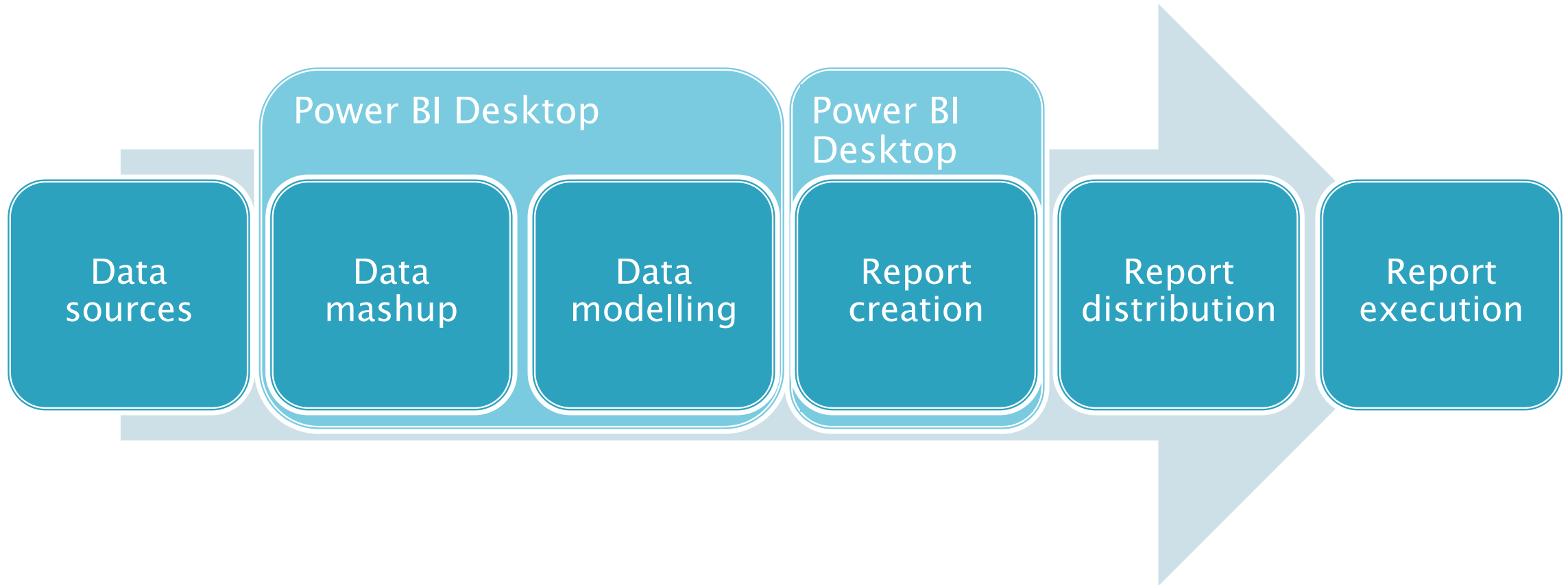
Business-Led Self-Service BI



Business-Led Self-Service BI

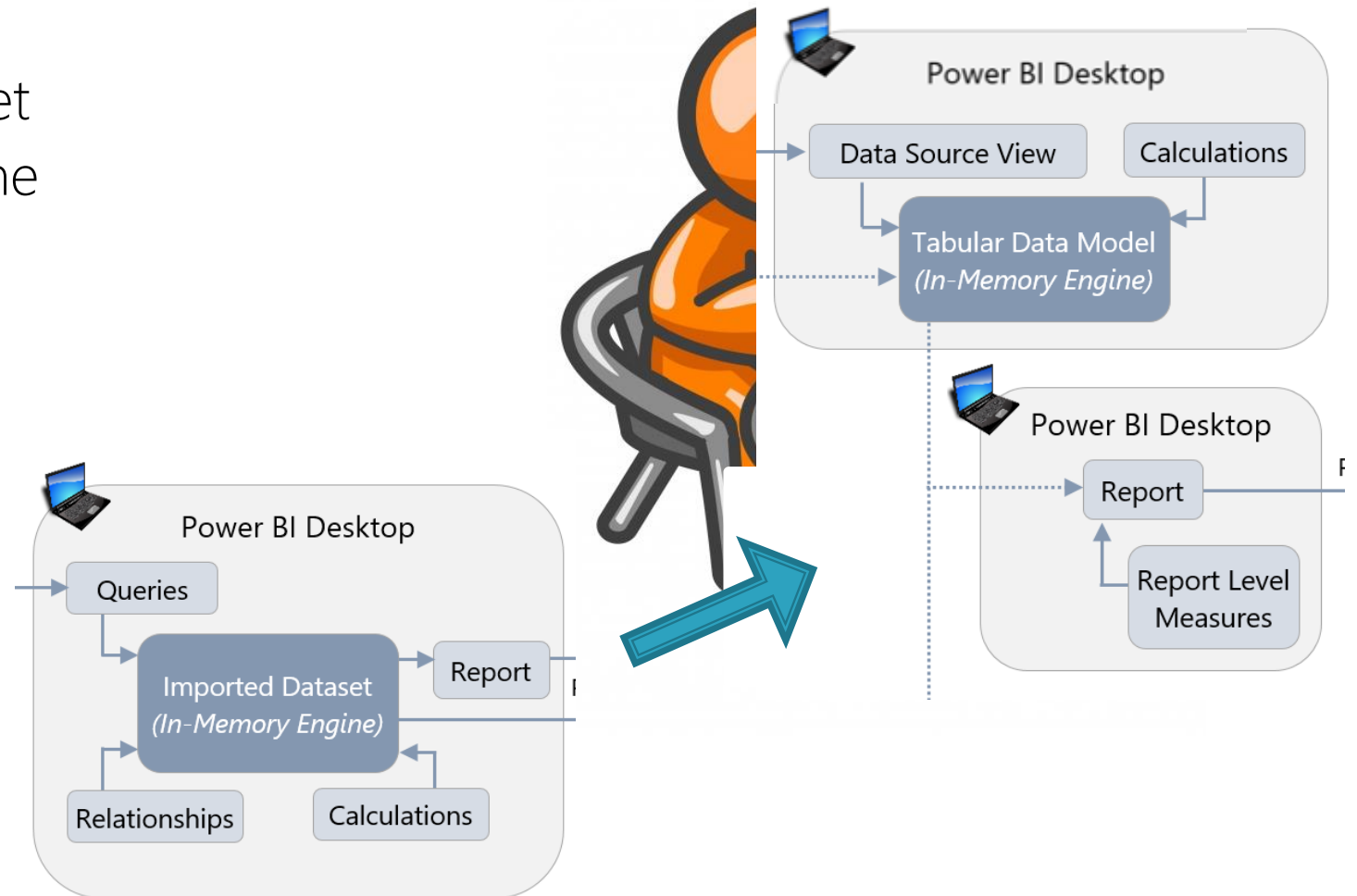


IT-Managed Self-Service BI

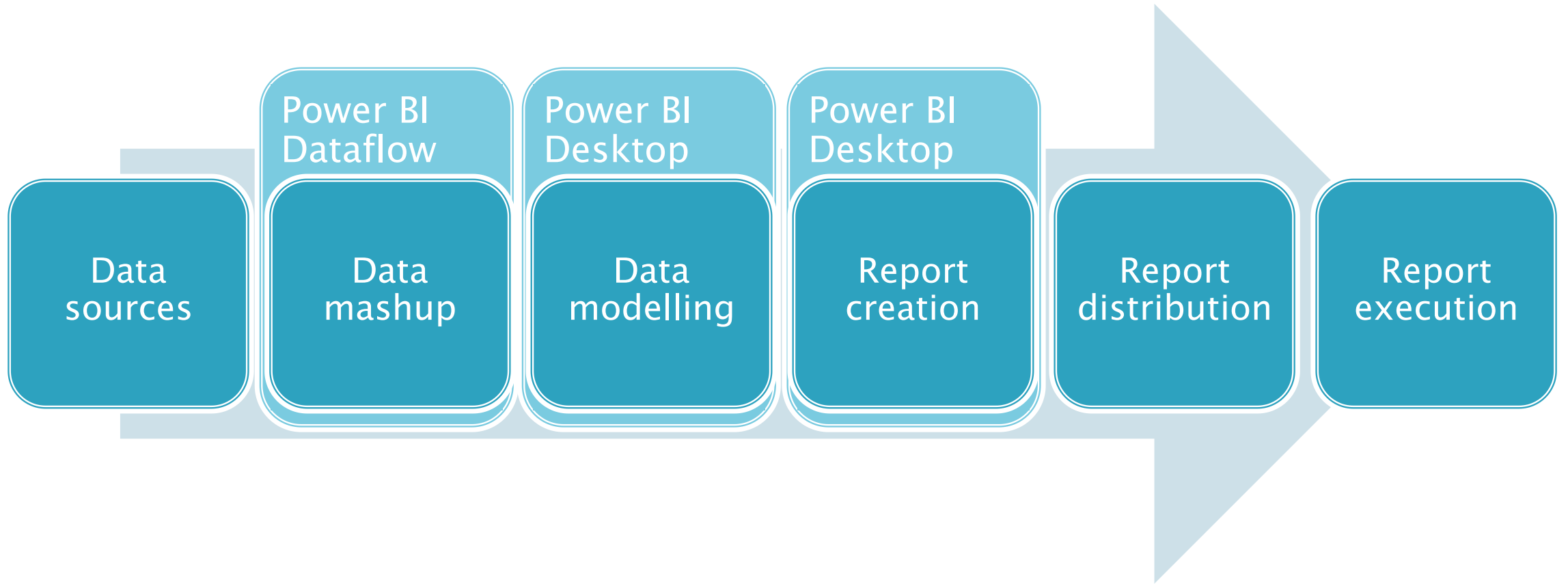


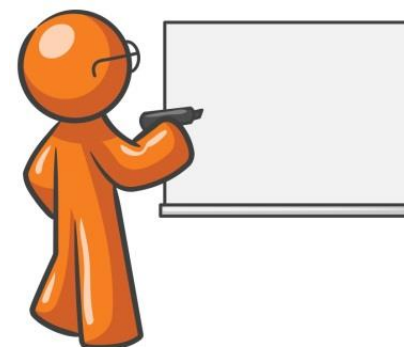
Demo: Ownership transfer

- ▶ Let see some Magic !
 - Split the report and dataset
 - Connect more report to the same dataset



Taking it one step further

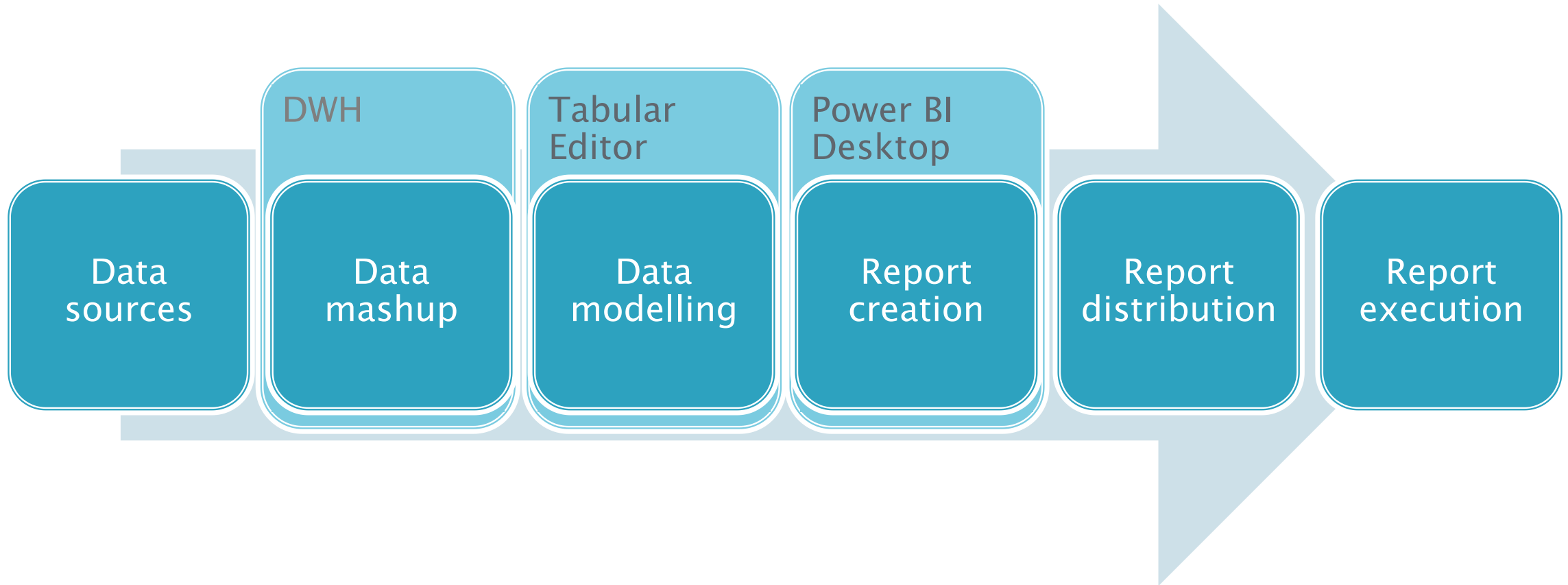




(3) Authoring the dataset

Modify and build your datamodel as a PRO developer 😊

IT-Managed Self-Service BI



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 management
 - 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!



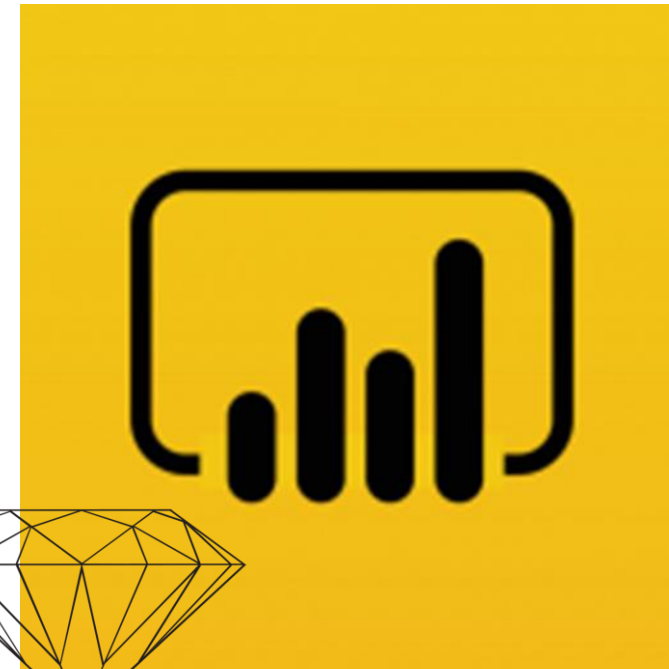
Power BI merging with Azure AS

Enterprise BI

All BI users Self-service BI users

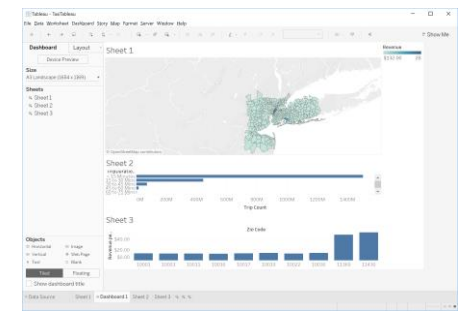
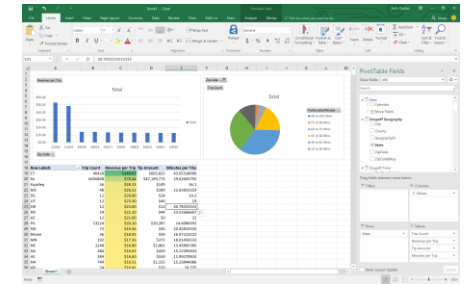
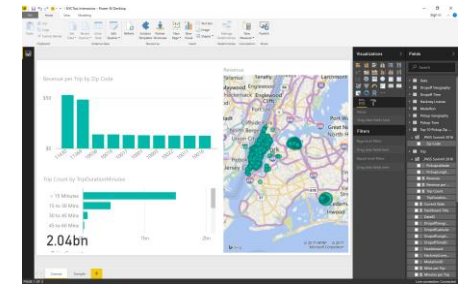
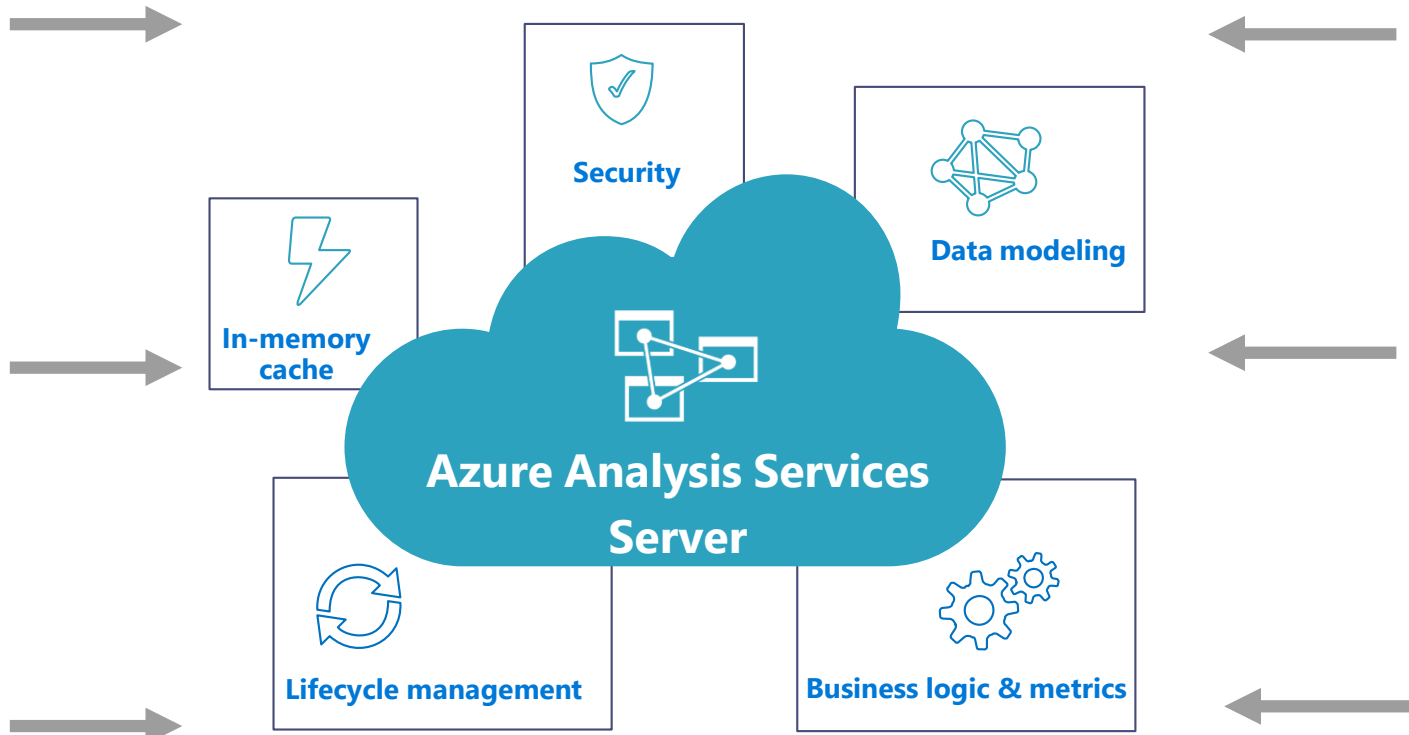
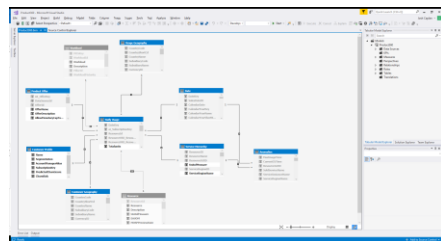
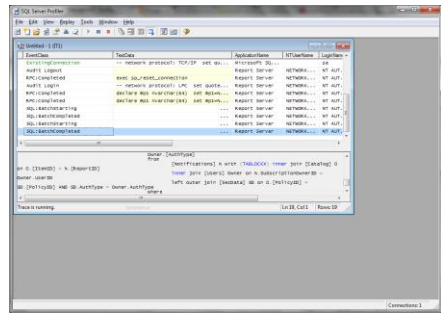
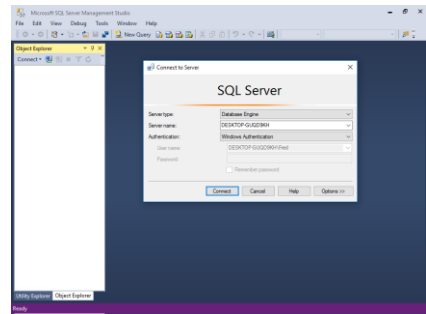


Azure Analysis Services Power BI Premium

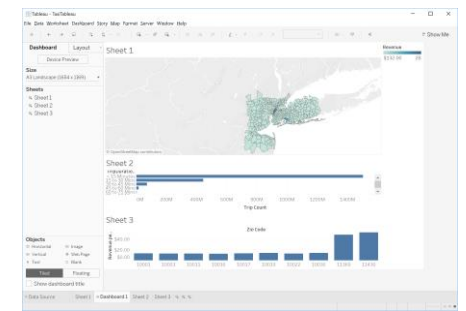
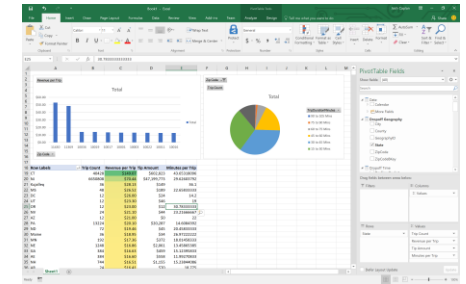
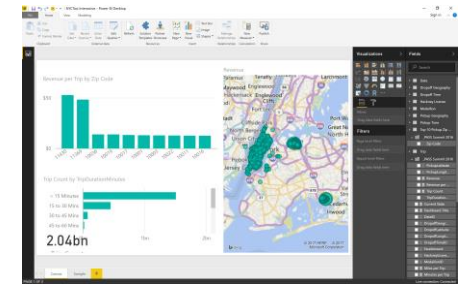
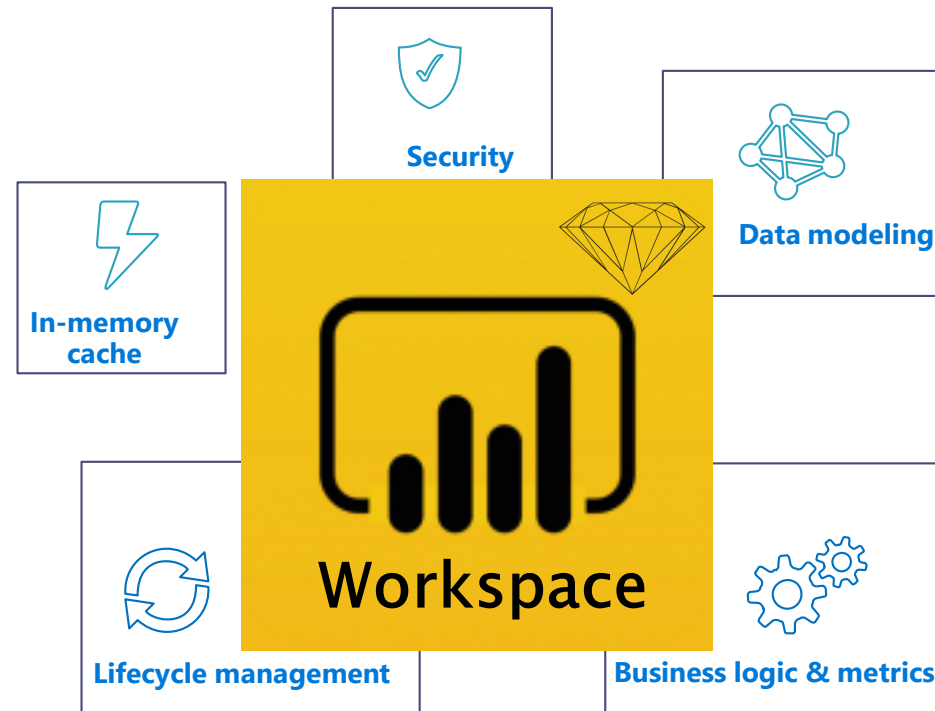
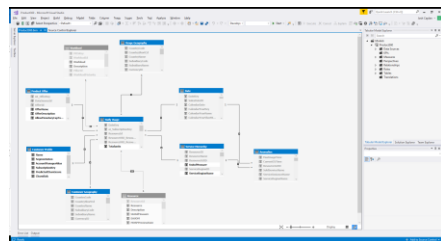
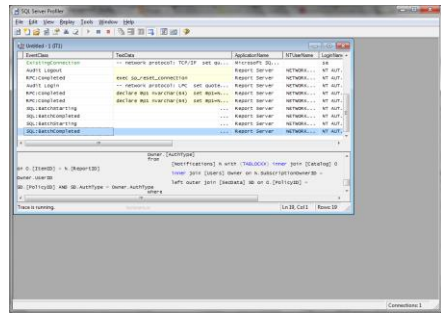
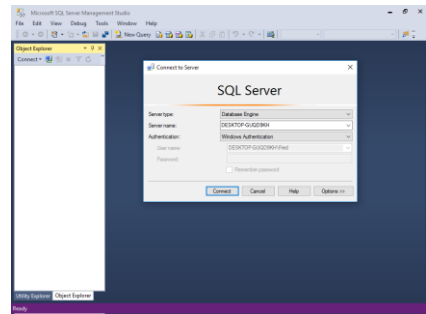


Power BI

Connectivity: Analysis Services

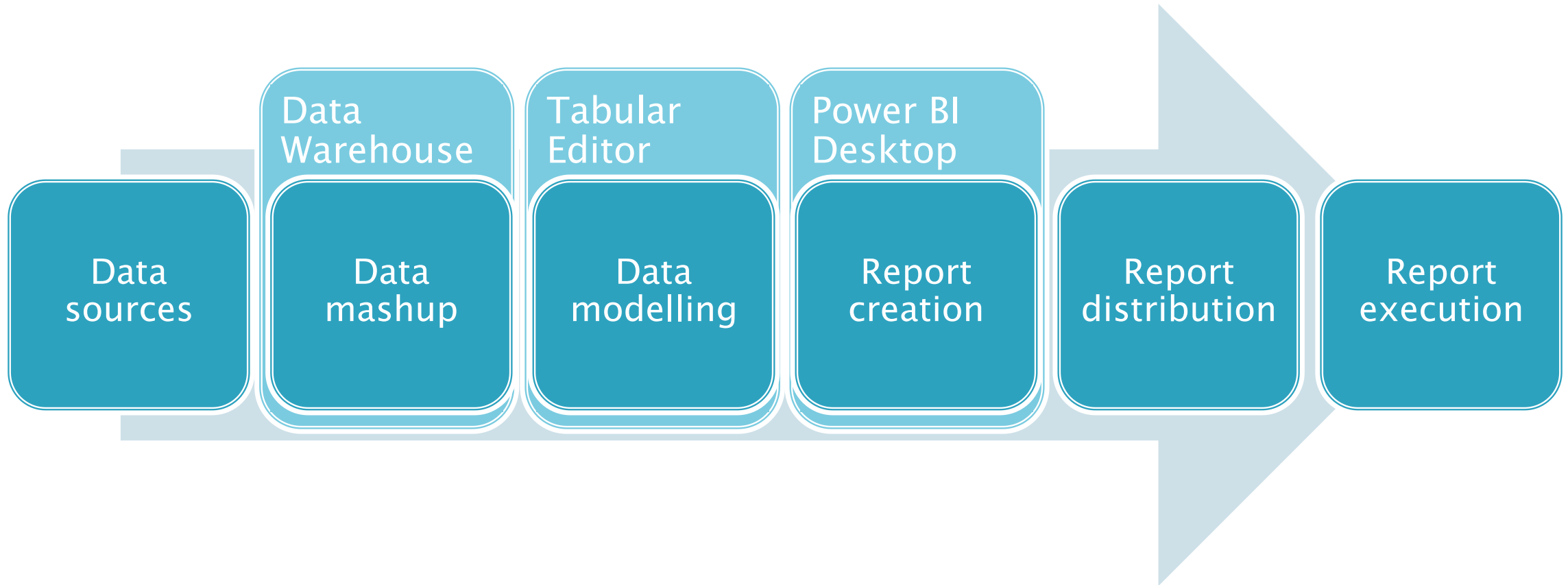


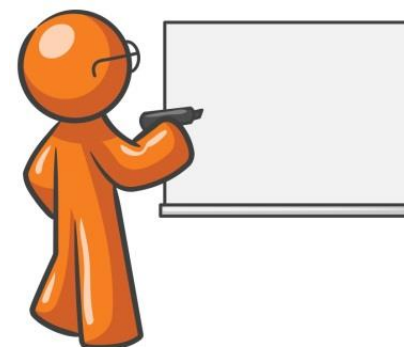
Connectivity: Power BI Premium



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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

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
Ventage Global	 Promoted	Lane Barnes	Ventage	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

Certification and Endorsement

- ▶ Admin Portal
- ▶ Dataset settings

◀ Certification

Enabled for a subset of the organization

Allow users in this org to certify datasets.

☒ Enabled

Specify URL for documentation page

Enter URL

Apply to:

- ☐ The entire organization
- ☒ Specific security groups

SEC-PowerBI-TrustedUsers X Enter security groups

◀ Endorsement

Help your colleagues find, learn about, and connect to your dataset.

☐ Default

This dataset can be searched for and used by others.

☐ Promoted

Promote this dataset with a badge to show it's ready to be used by others.

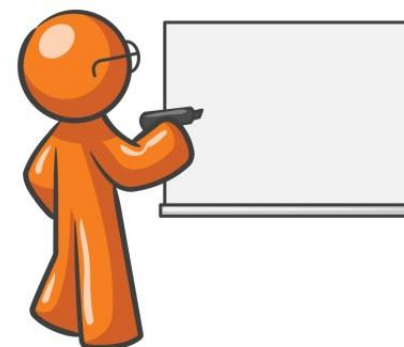
☒ Certified (Certified by just@justb.dk on Tuesday, November 19, 2019.)

Request certification from experts in your org to get a badge that shows it's recommended for use by others. [Learn more](#)

Description

Official sales numbers that you can trust!

458 characters left



(5) Branding

Certify the Reports and Apps

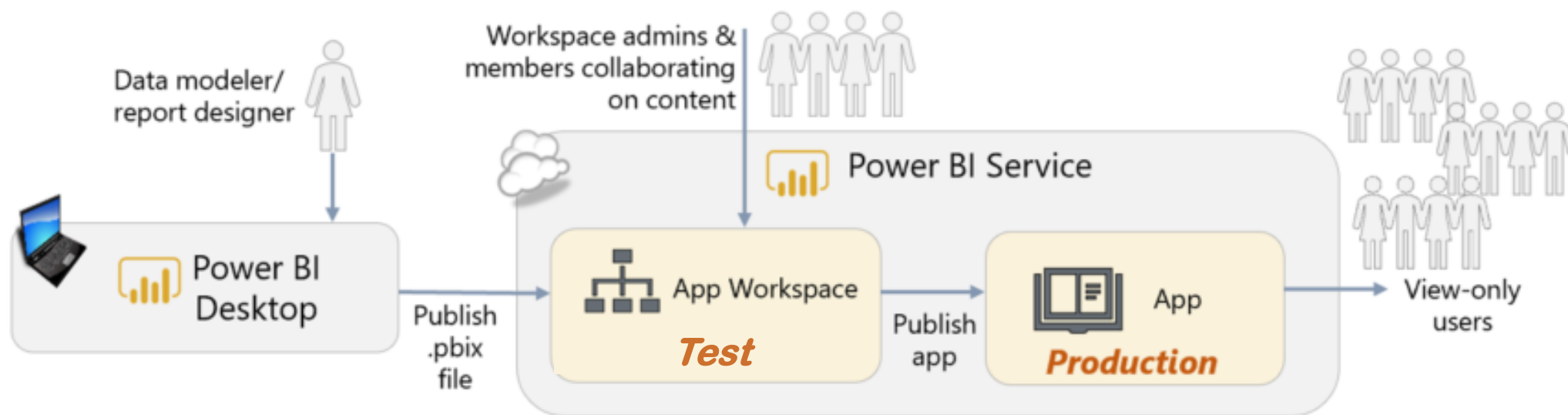
Private and App Workspaces

- ▶ Everyone has their own private workspace they can publish to. Its called: "My Workspace". **Only** use it for:
 - Personal usage
 - Testing purposes
- ▶ App **Workspaces** 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
- ▶ The App navigation experience!
 - Customize the name and logo of your app
 - Setup navigation

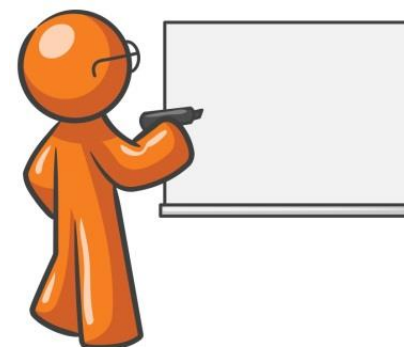
Simple App deployment process



Branding

- ▶ Certify your Apps
 - Add app icon
 - Support site
 - Link in navigation
- ▶ Certify your Reports
 - Add background image

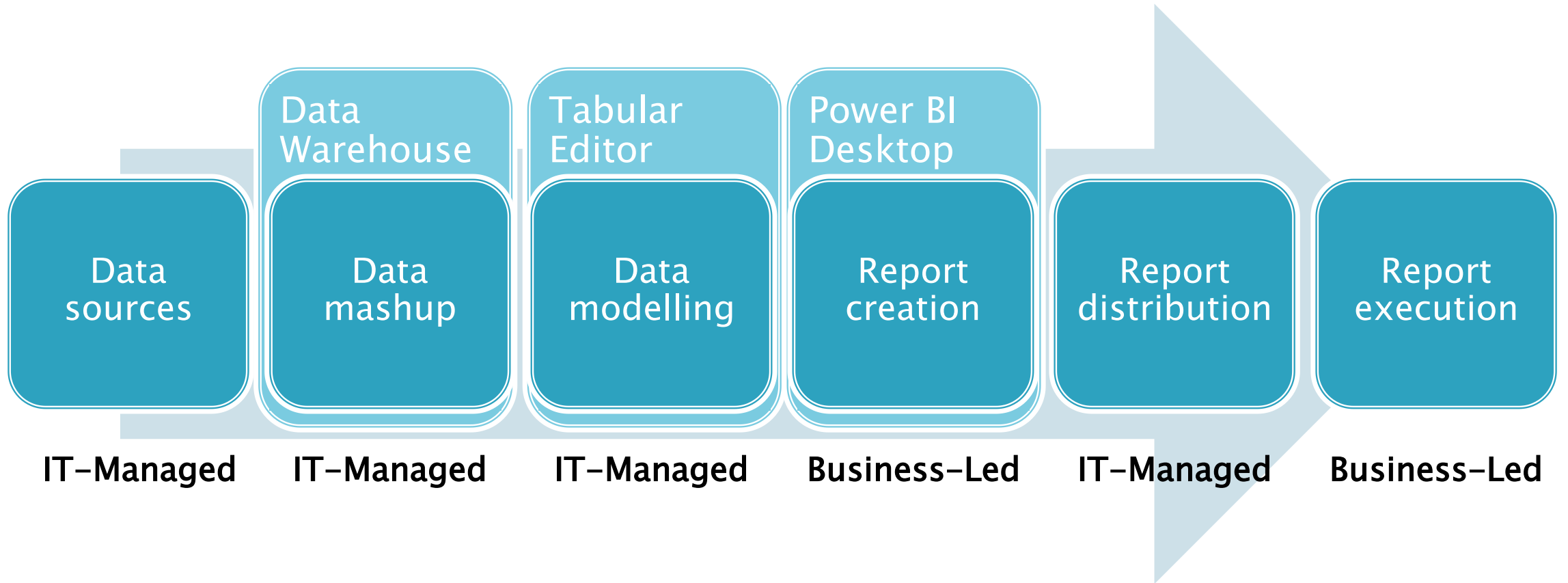




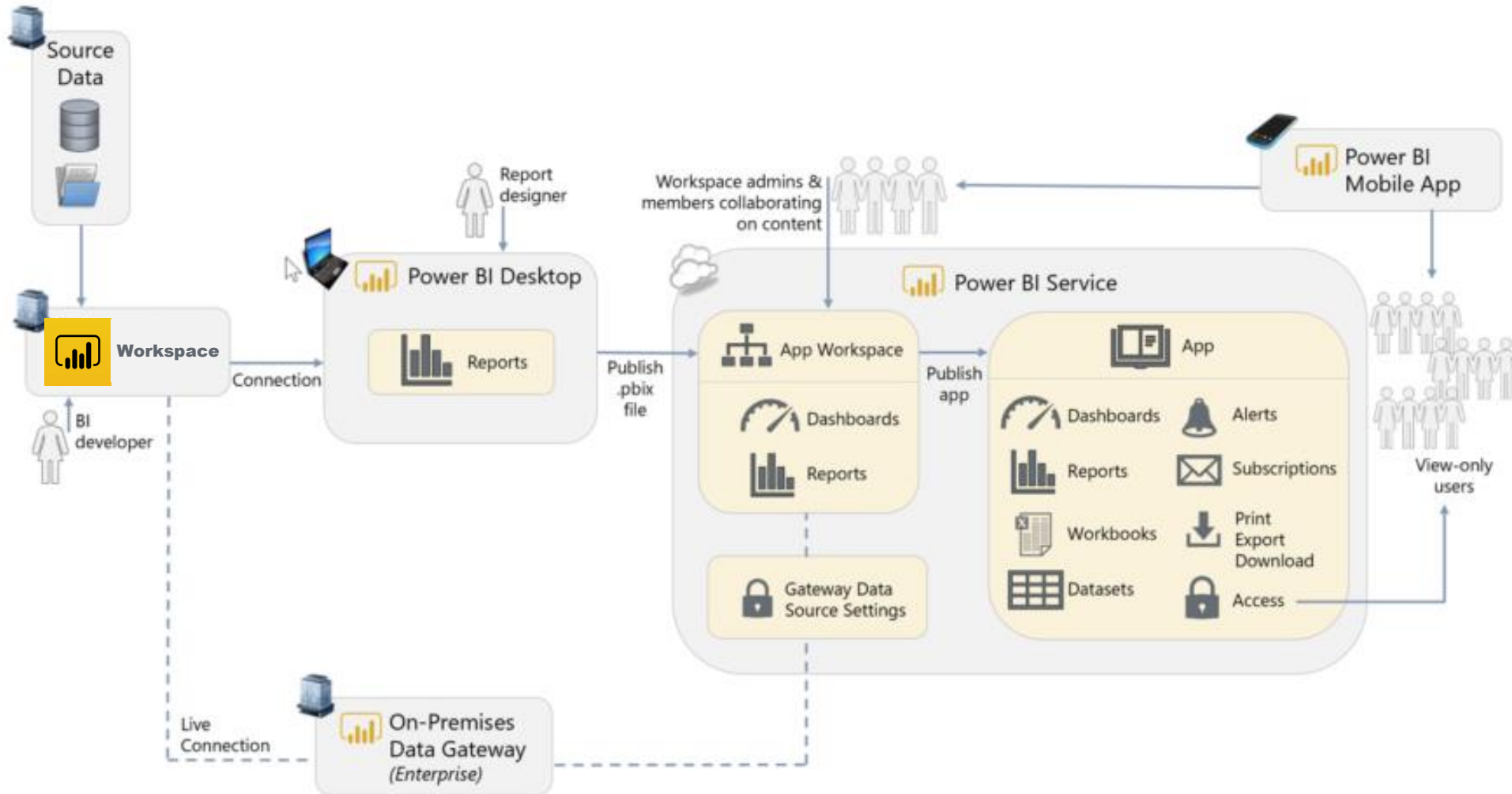
Wrapping it up

ORANGEMAN

IT-Managed distribution



Full architecture: IT-Managed Self-Service BI



Just Blindbæk

- ▶ Self-employed BI consultant in justB
- ▶ Trainer at Orange Man
- ▶ Founder
 - Danish Microsoft BI Community (MsBIP.dk)
 - Power BI UG Denmark (PowerBI.dk)
 - Power BI Quiz Show
- ▶ Strong focus on the front-end tools
 - Analysis Services
 - Reporting Services
 - PerformancePoint Services
 - Excel and Power Pivot
 - Power BI
- ▶ just@justB.dk | blog.justB.dk | @justblindbaek | youtube.com/c/justblindbaek



Microsoft
CERTIFIED
Trainer

Microsoft
CERTIFIED
IT Professional

SSAS
MAESTRO
by Microsoft

MVP **Microsoft**
Most Valuable
Professional

Time for questions ?



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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/>