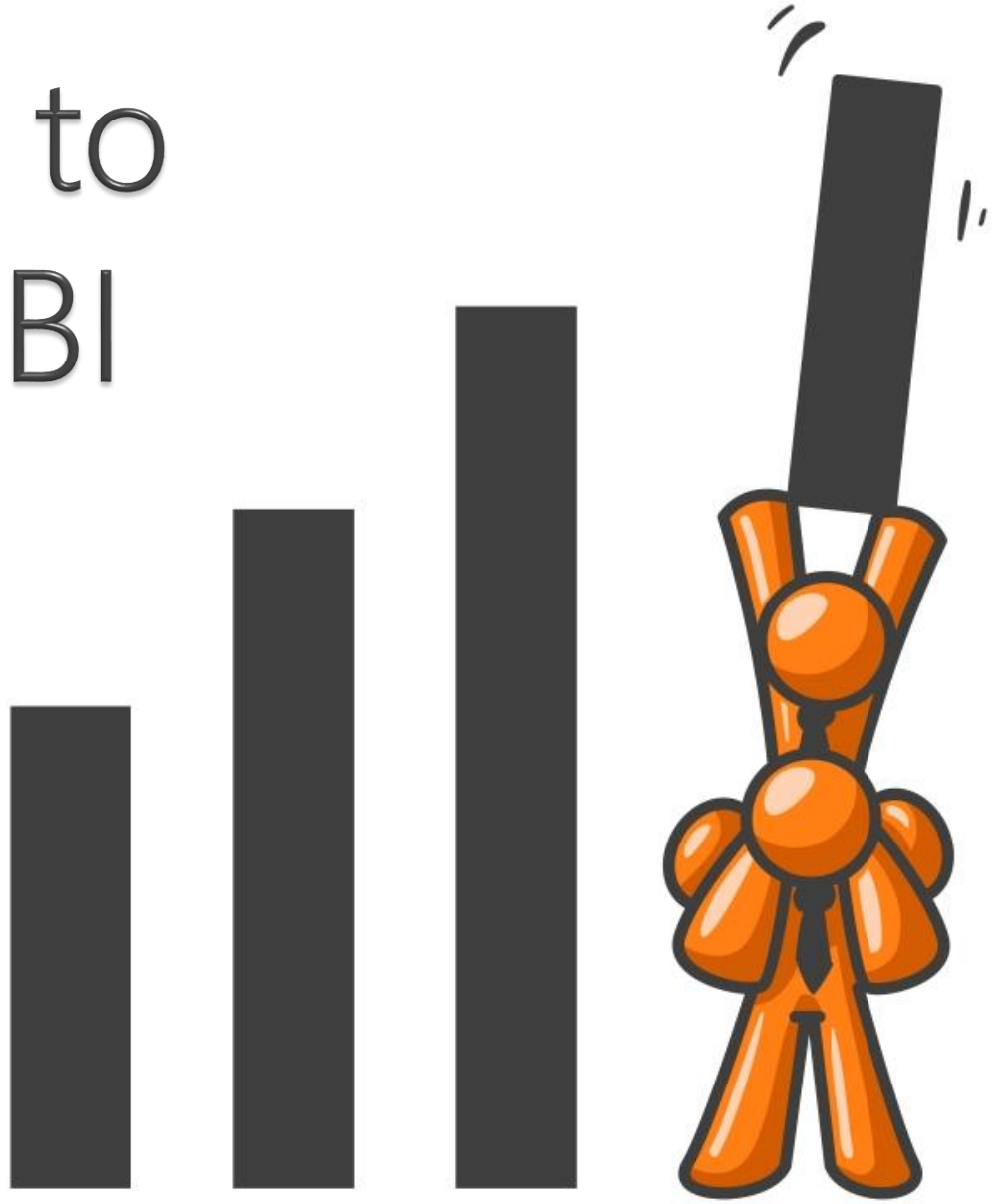
From Self-service to Enterprise Power BI

- 5 easy steps



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Before we start

- Business Users?
- IT Professionals?

- All in one?

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Agenda

- Introduction
  - Delivery of Power BI
  - Business vs. IT

- The 5 easy steps
  1. Fix the dataset
  2. Ownership transfer
  3. Certify the dataset
  4. Authoring the dataset
  5. Brand the reports and apps

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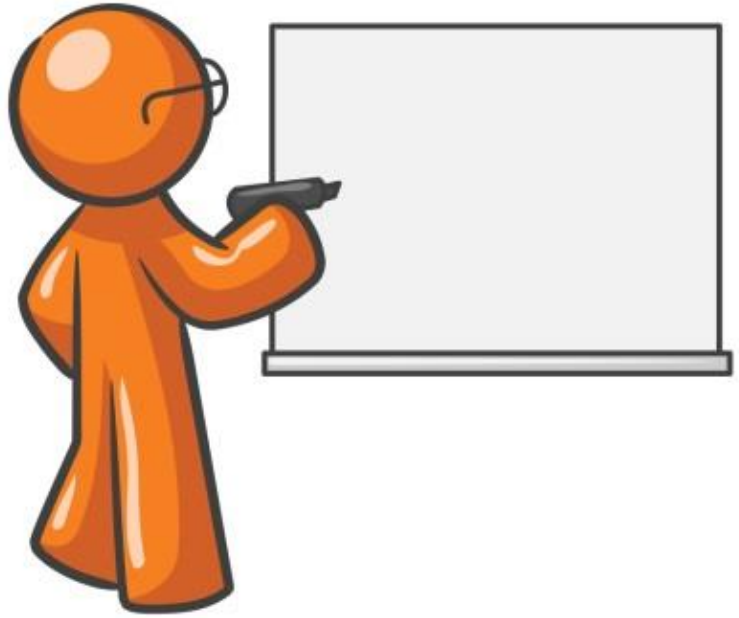
Delivery of Power BI

- Self-service vs. Enterprise BI



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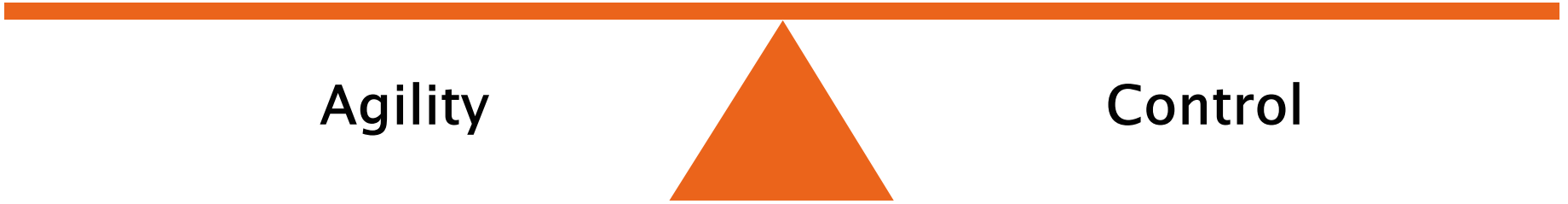
Delivering Power BI is not easy

Business users

Complete and powerful self-service BI

IT Professional

Enterprise grade governance and scale



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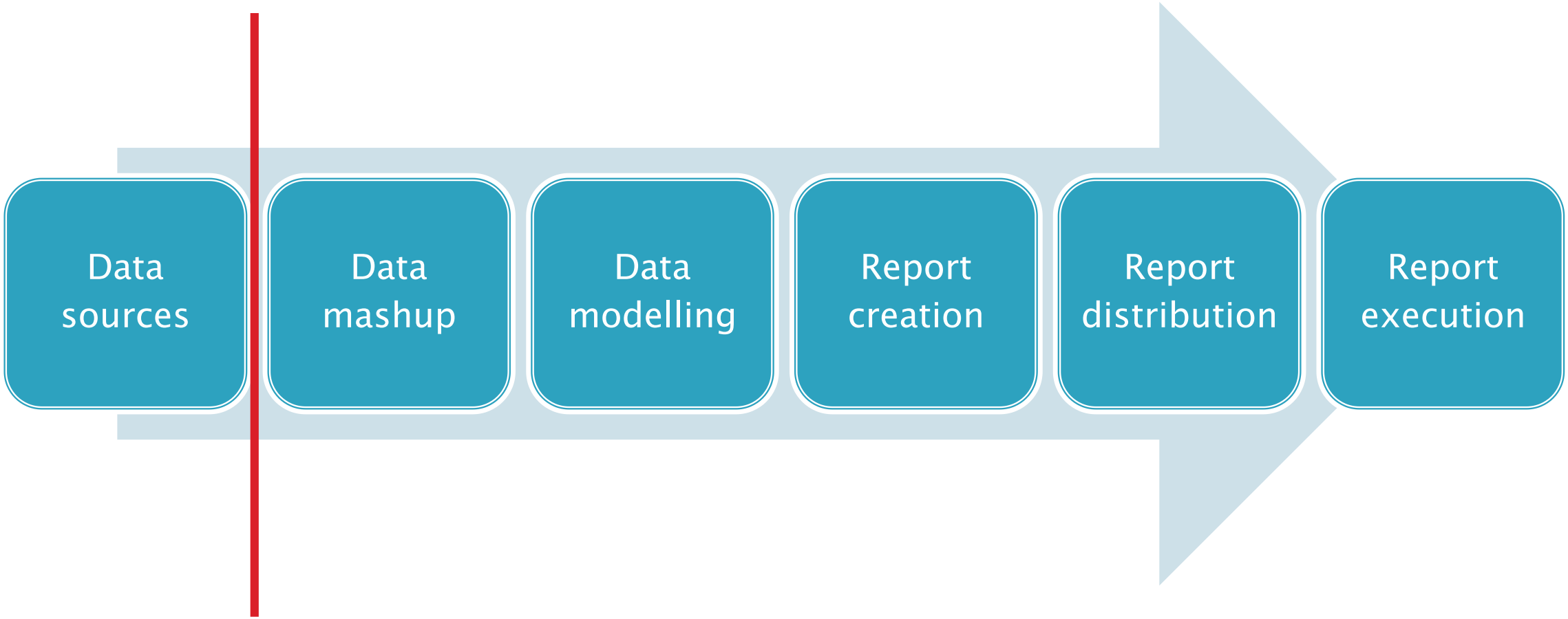
Power BI development: IT vs Business



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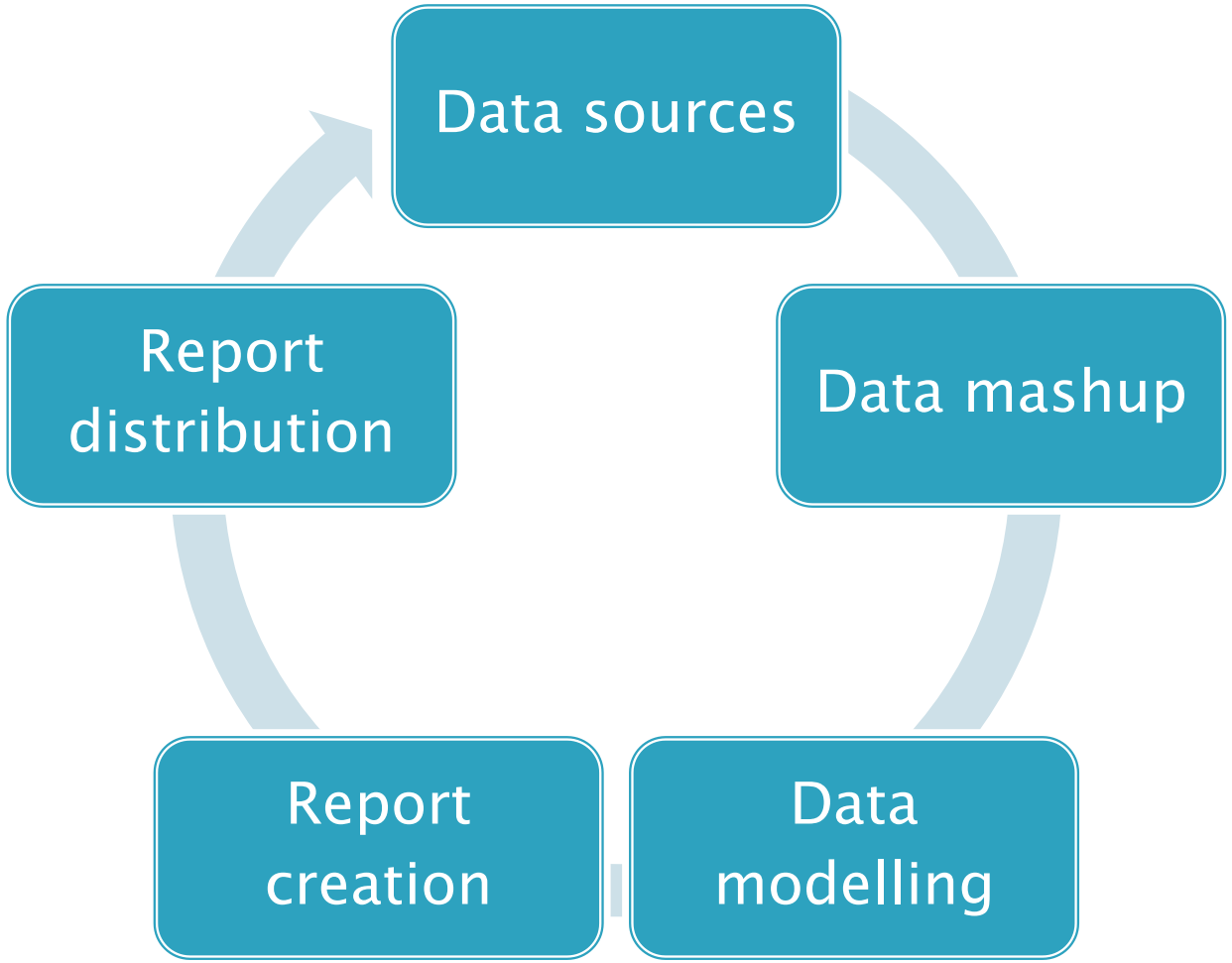
Power BI development: Agile development



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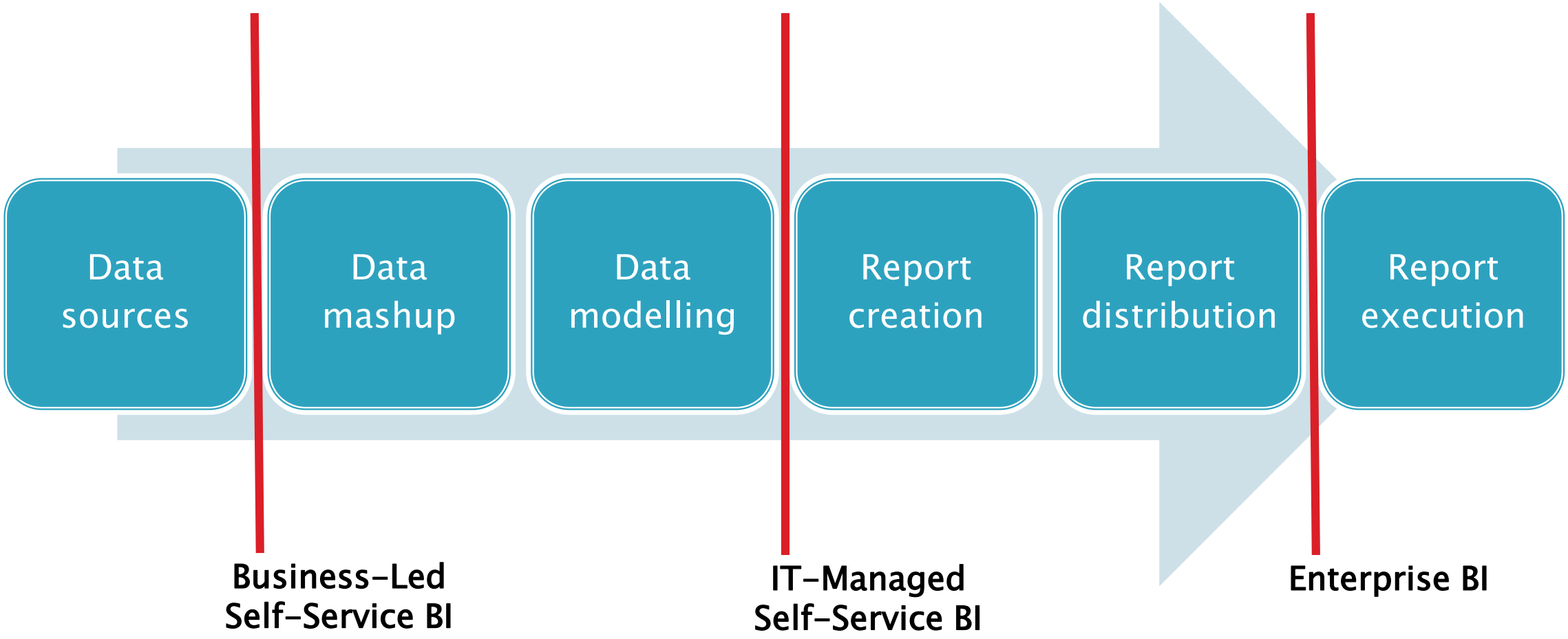
Power BI Delivery Approaches

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 **Ownership:** Business supports all elements of the solution **Business users:** Data mashup, data modeling, report creation, distribution & execution **Governed by:** Business	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	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.

Recap: Power BI Ownership Approaches



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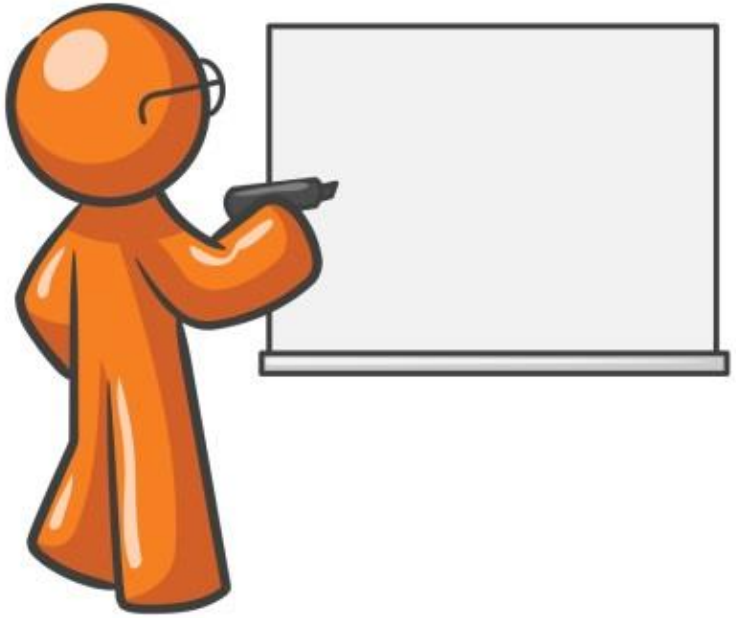
(1) Fix the dataset

- Star schema all the things



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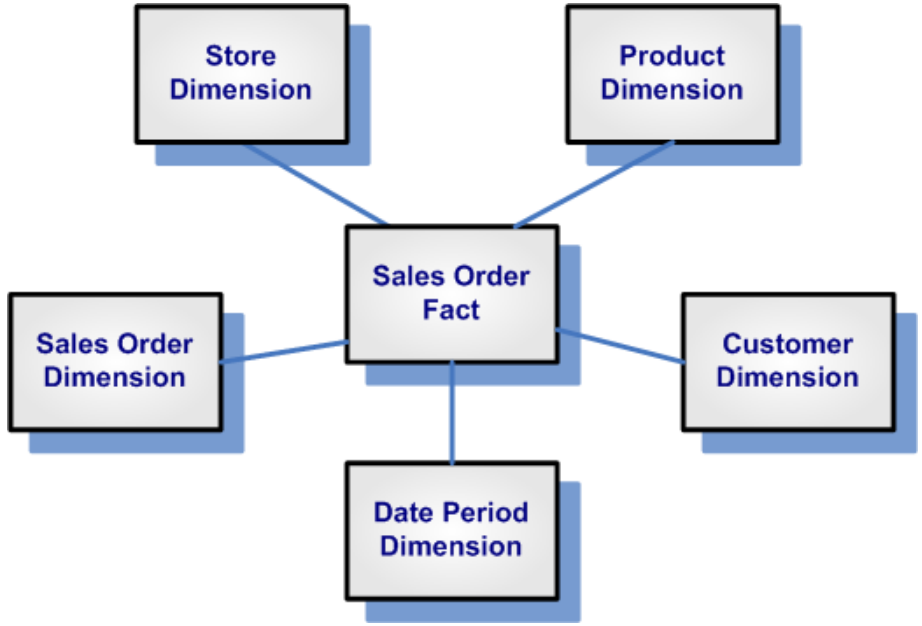
Star schema all the things

- 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



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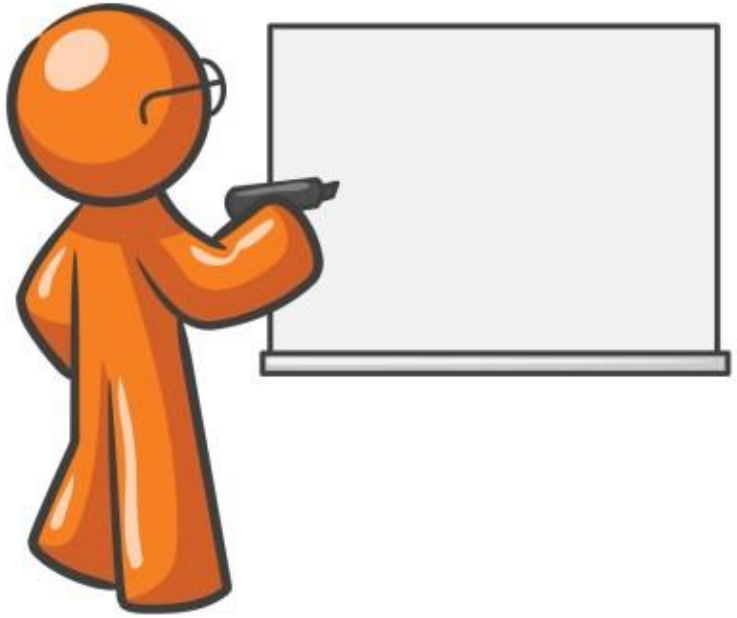
(2) Ownership transfer

- Split the PBIX file



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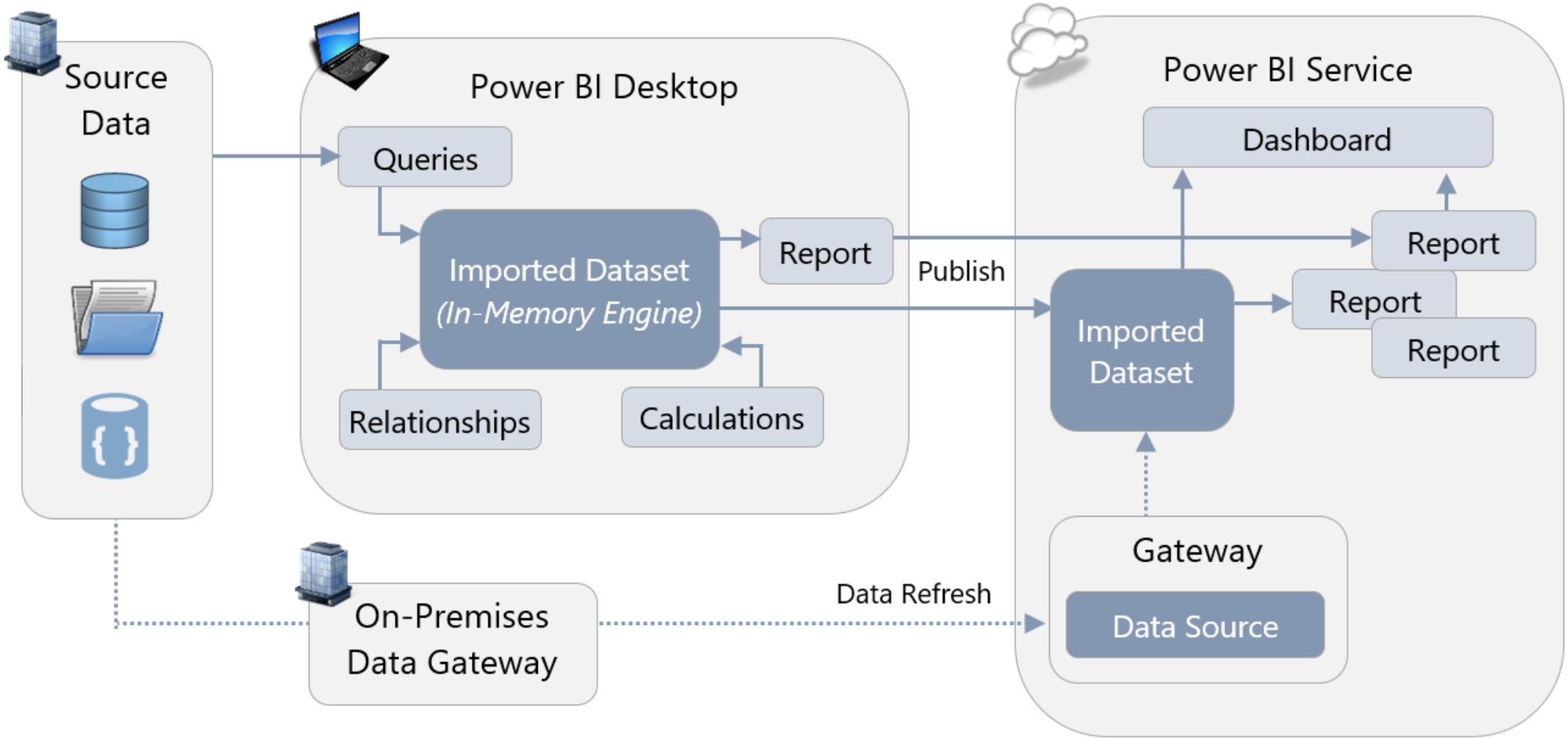
Business-Led Self-Service BI



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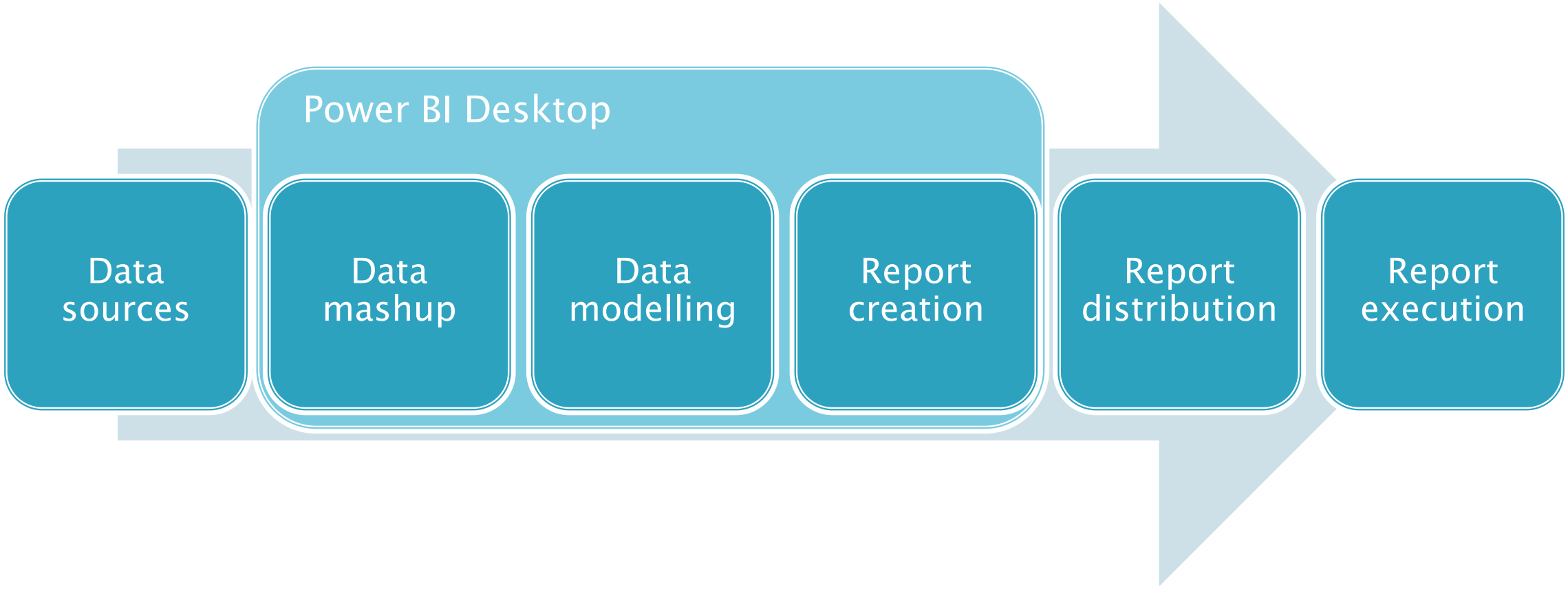
Business-Led Self-Service BI



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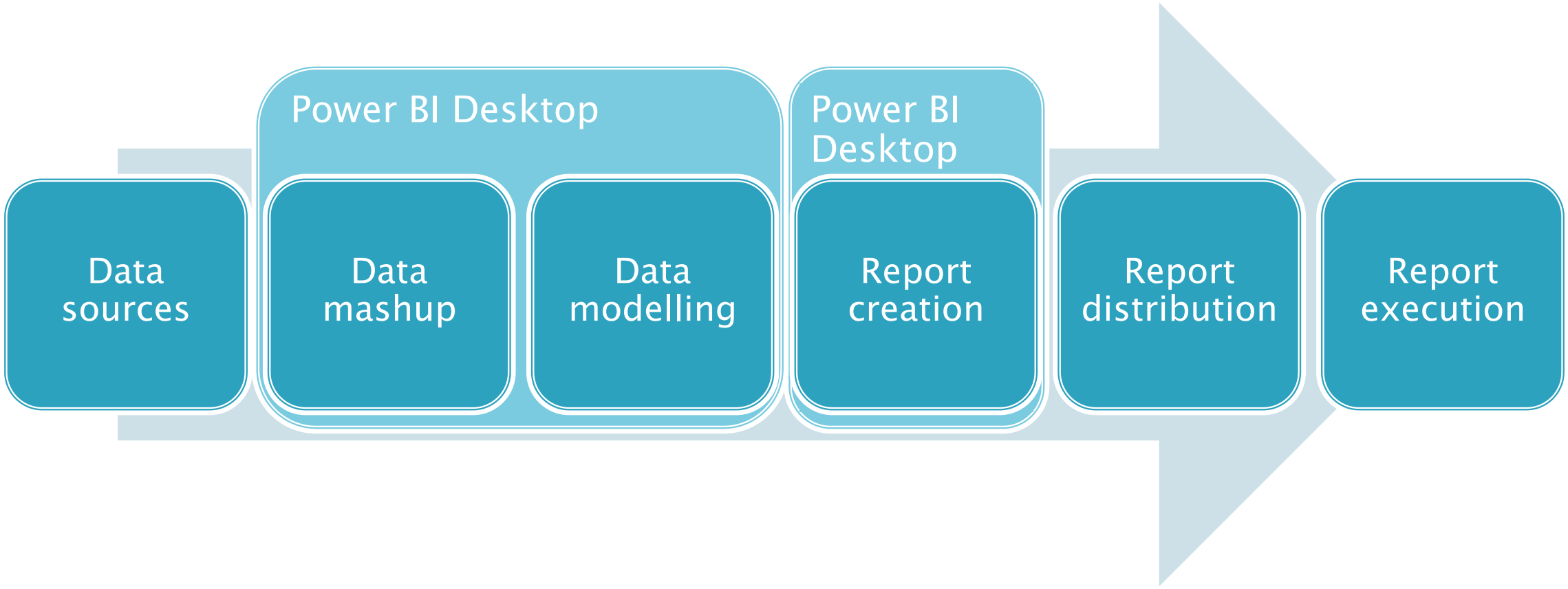
IT-Managed Self-Service BI



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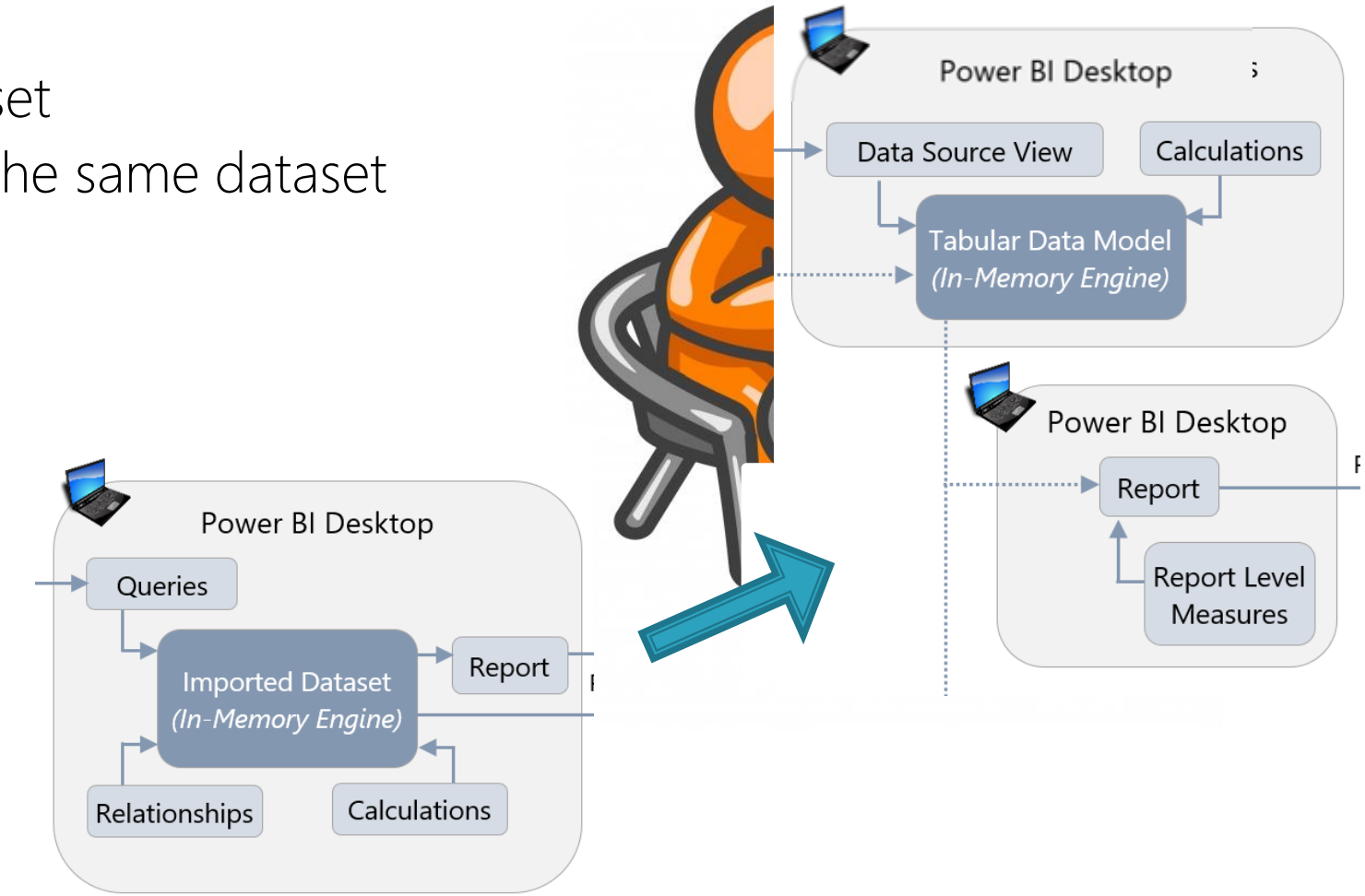
Demo: Ownership transfer

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



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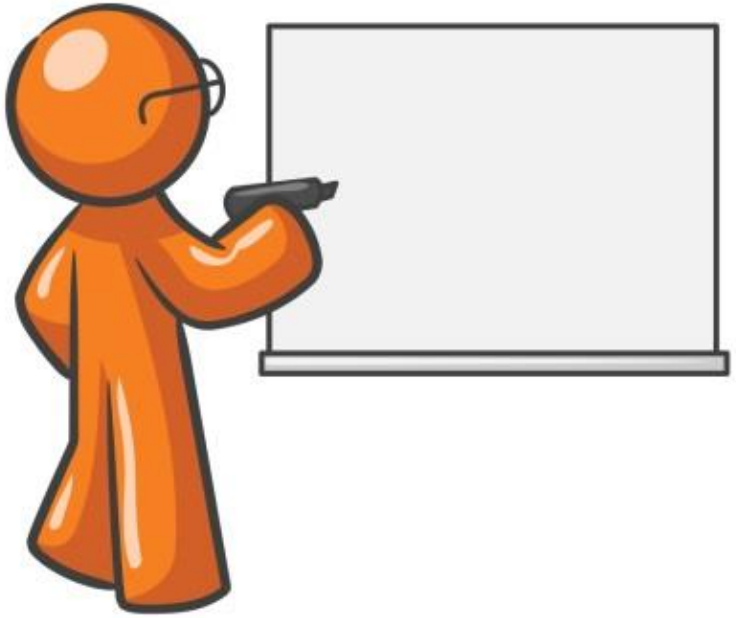
(3) Certify the dataset

- The single version of the truth



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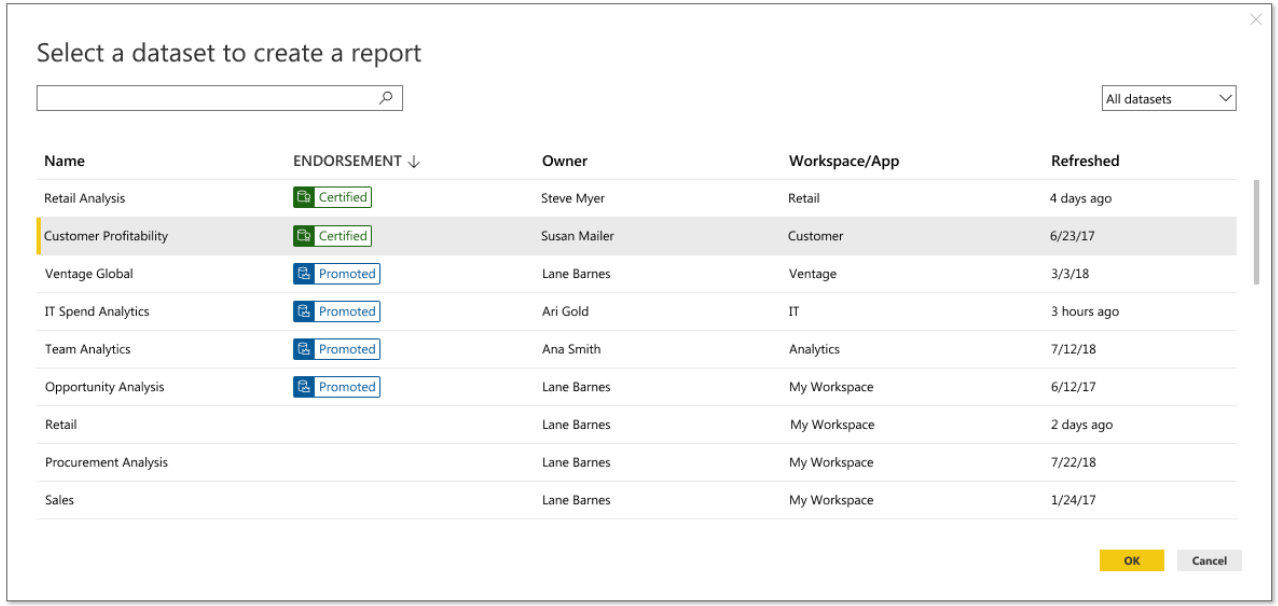
Shared and certified datasets

- 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



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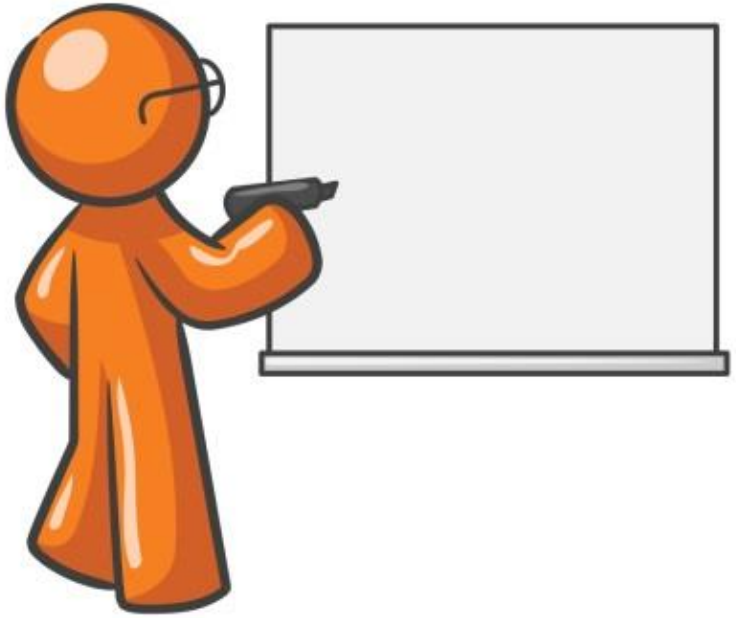
(4) Authoring the dataset



- Modify and build your datamodel as a PRO developer ☺

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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!

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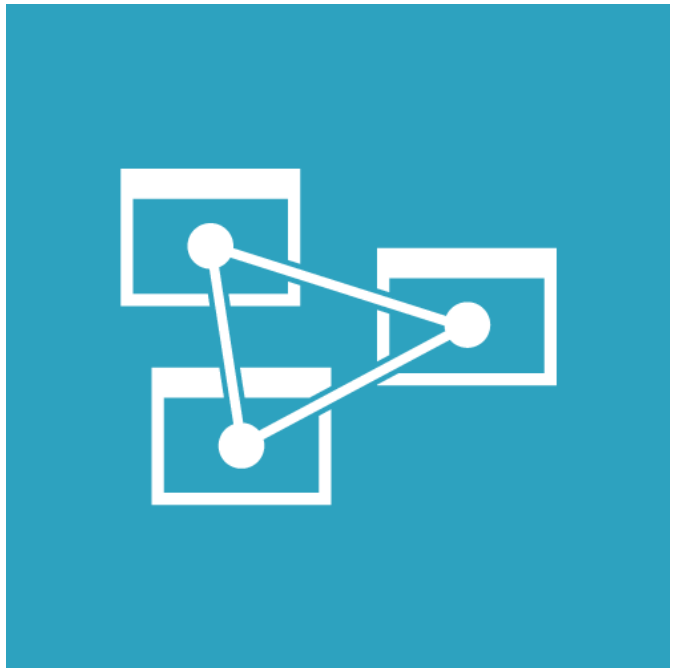
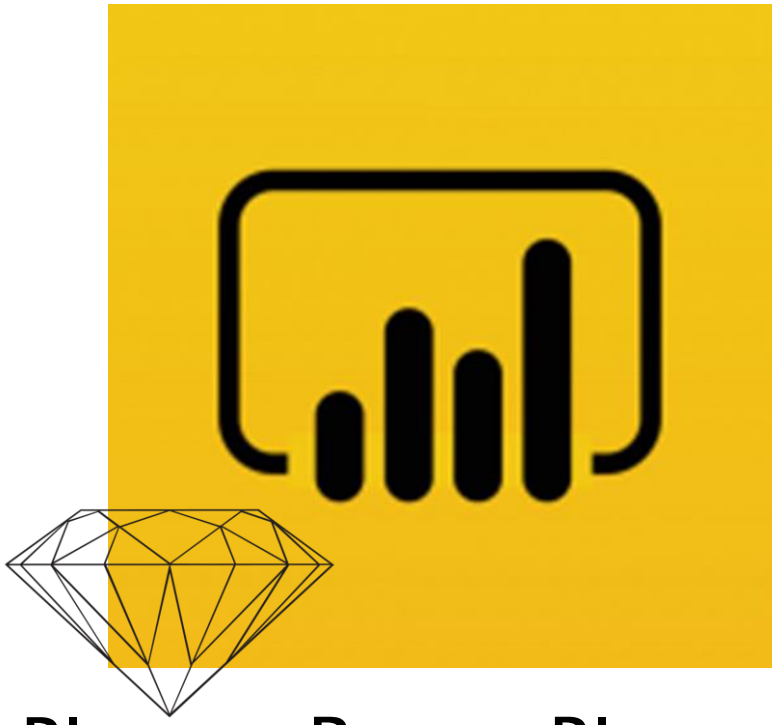
Power BI merging with Azure AS

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





Azure Analysis Services

Power BI Premium

Power BI

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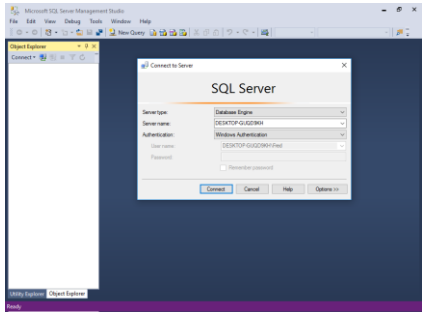
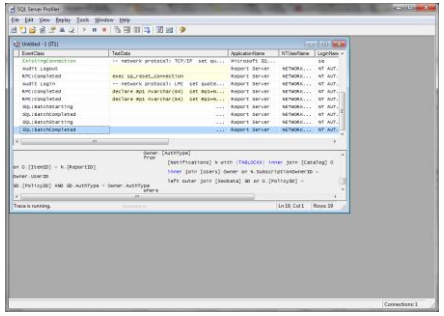
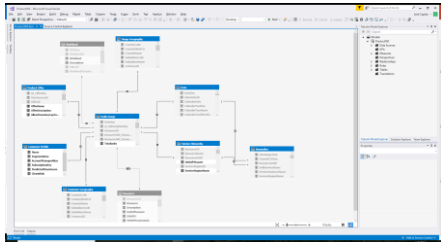
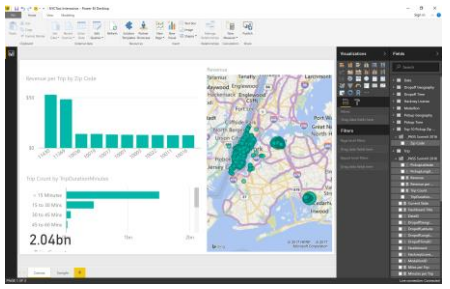
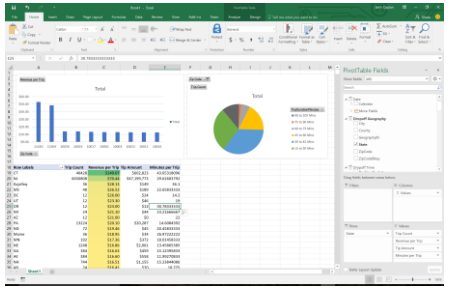
Connectivity: Analysis Services

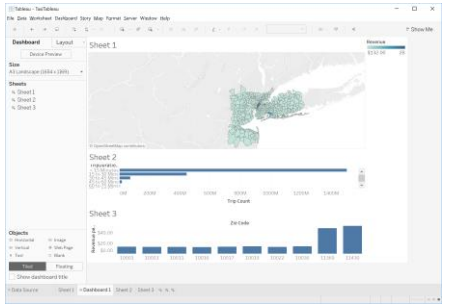












Security

Data modeling

In-memory cache

Azure Analysis Services Server

Lifecycle management

Business logic & metrics

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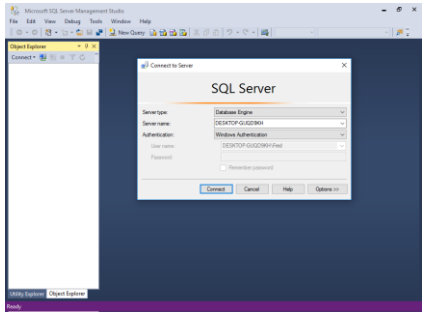
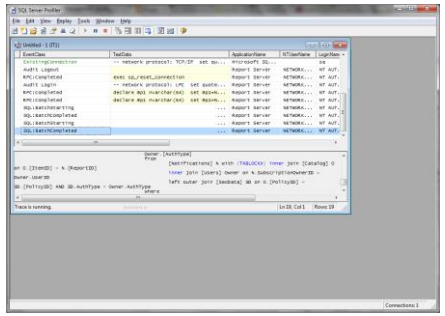
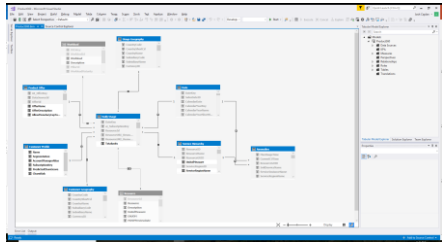
Connectivity: Power BI Premium







Security

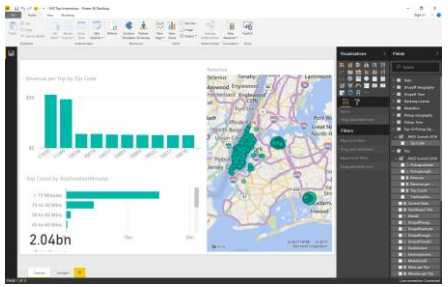
In-memory cache

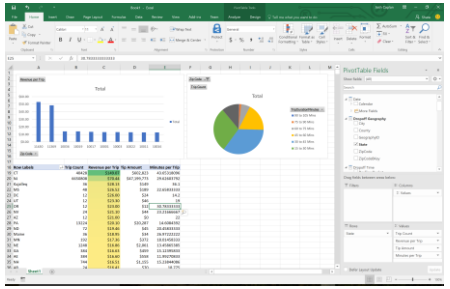
Data modeling

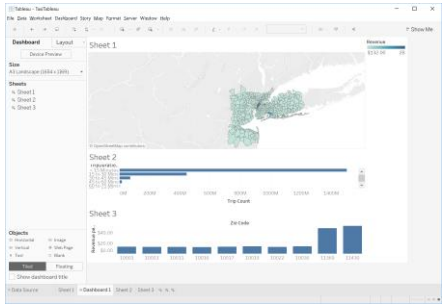
Workspace

Lifecycle management

Business logic & metrics







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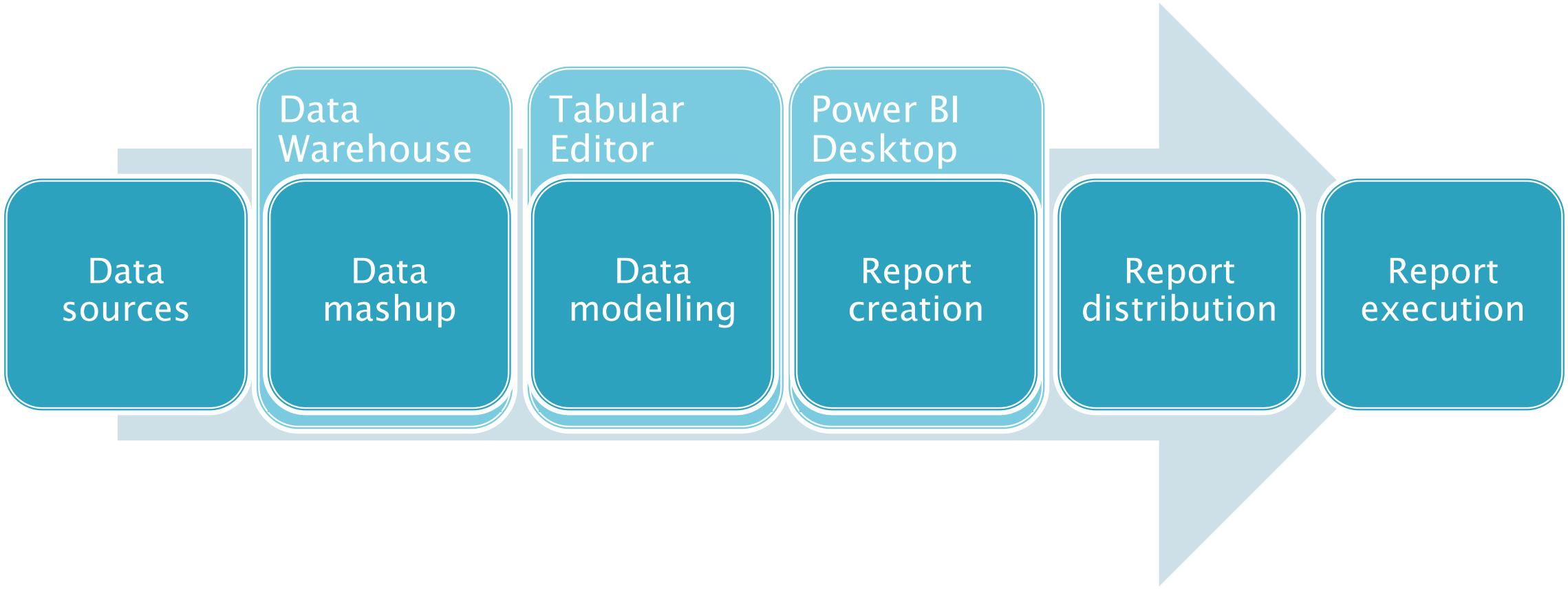
Development



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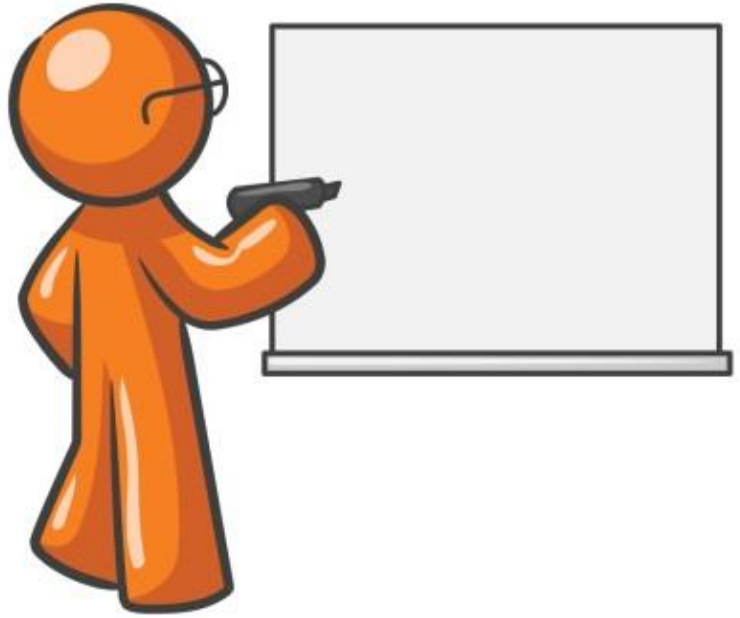
(5) Branding

- Certify the Reports and Apps



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Workspaces – private and app

- 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 and contributors – viewer role is forthcoming.

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Apps

- 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

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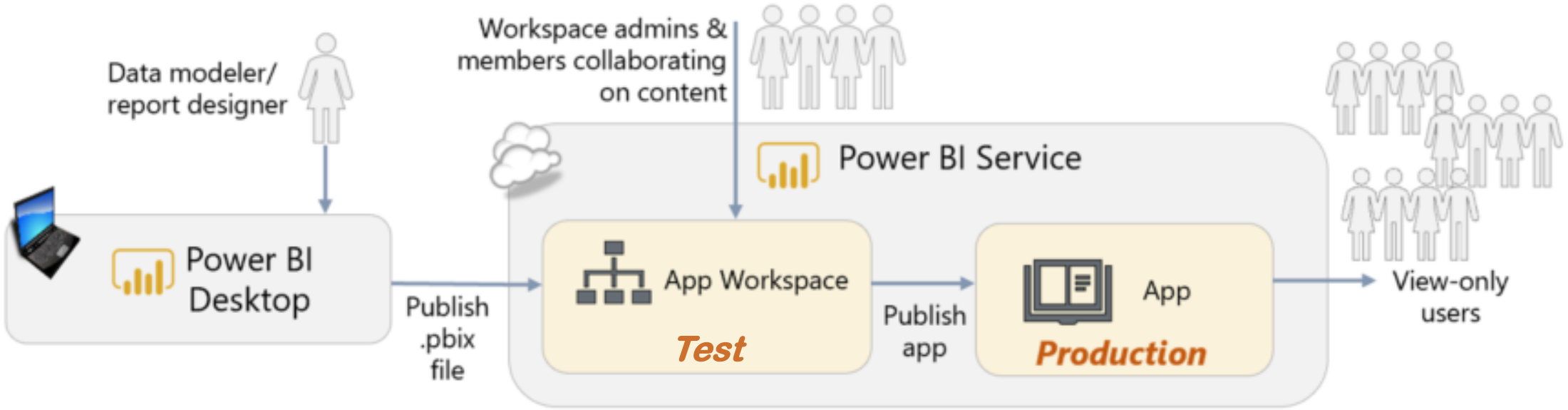
Simple App deployment process



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Demo: Branding – certify reports and apps

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

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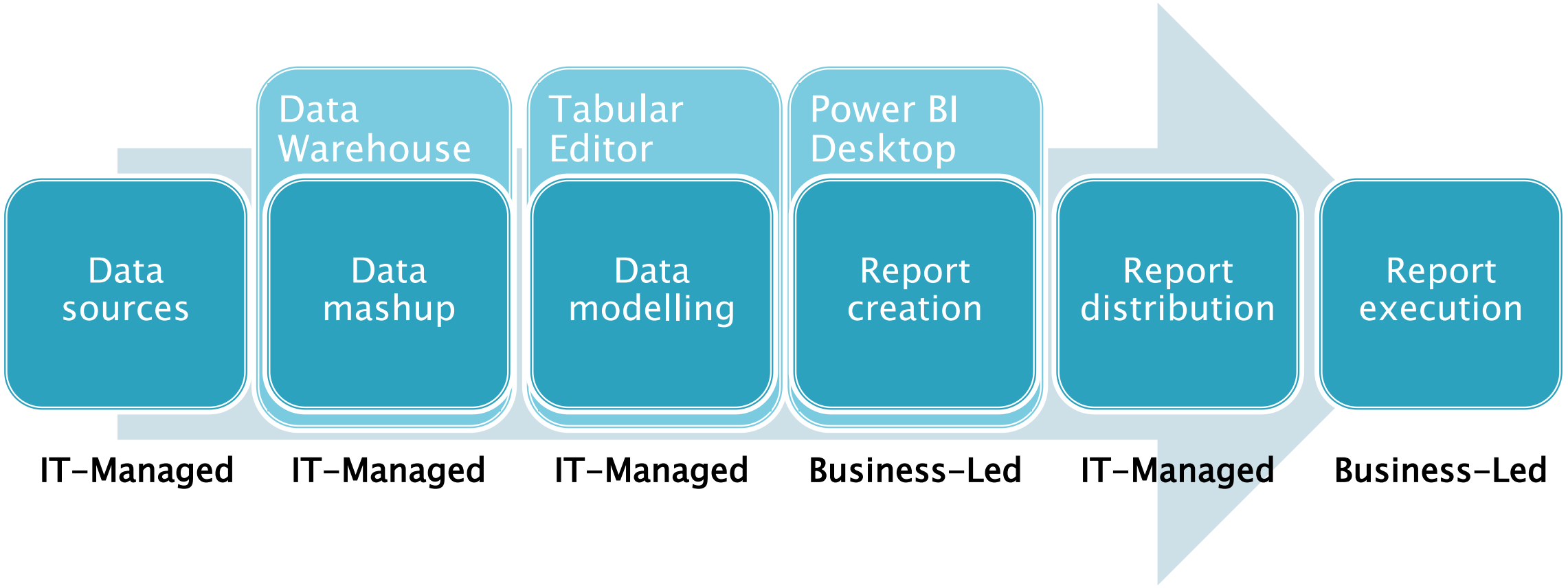
IT-Managed distribution



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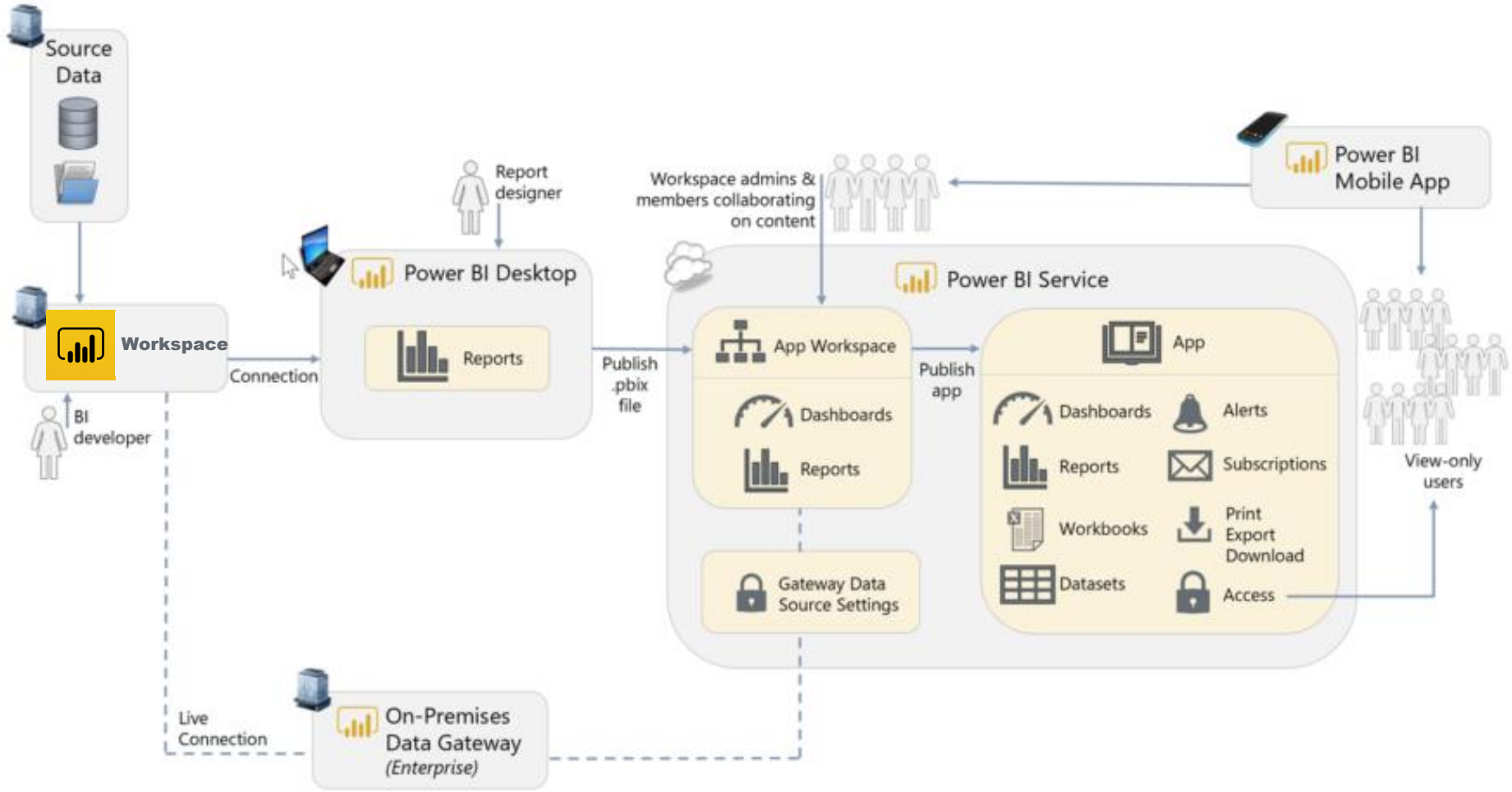
Full architecture: IT-Managed Self-Service BI



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Questions

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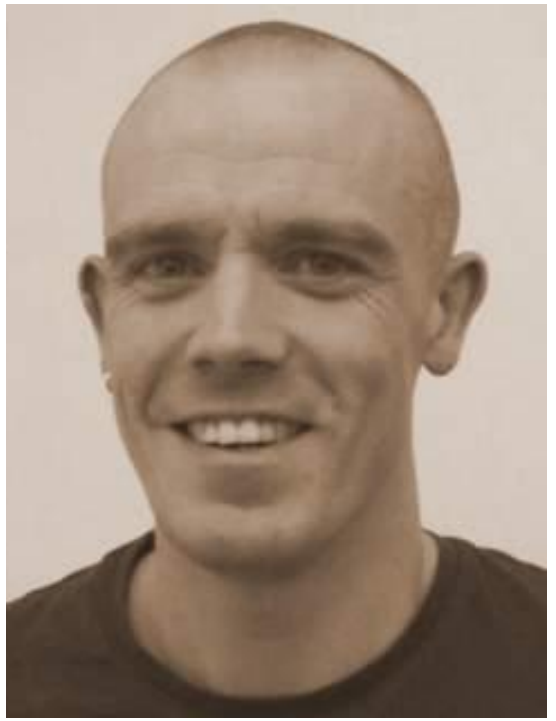
Just Thorning Blindbæk

- Self-employed Consultant in justB
- Trainer at Orange Man
- Founder
  - Danish Microsoft BI Comminity (MicrosoftBI.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
- just@blindbaek.dk / blog.justB.dk / @justblindbaek



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

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Evaluate the evening

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