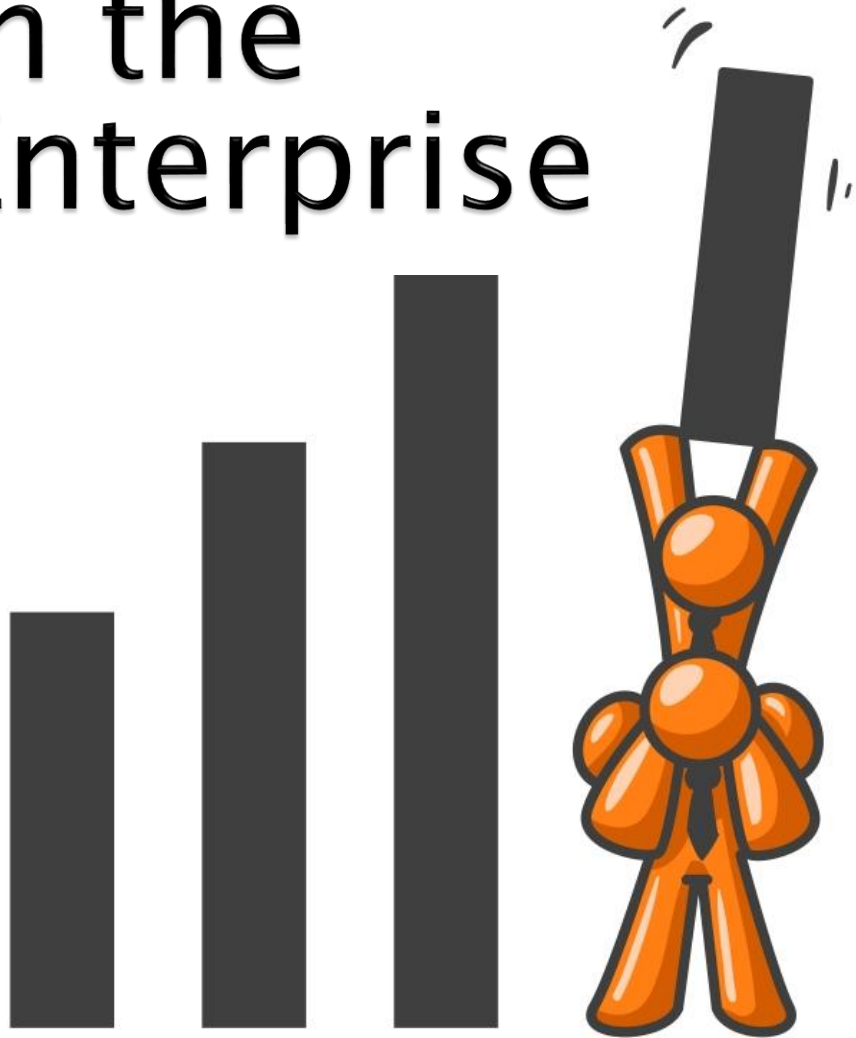


# Deploying Power BI in the Enterprise



Thanks to our sponsors:



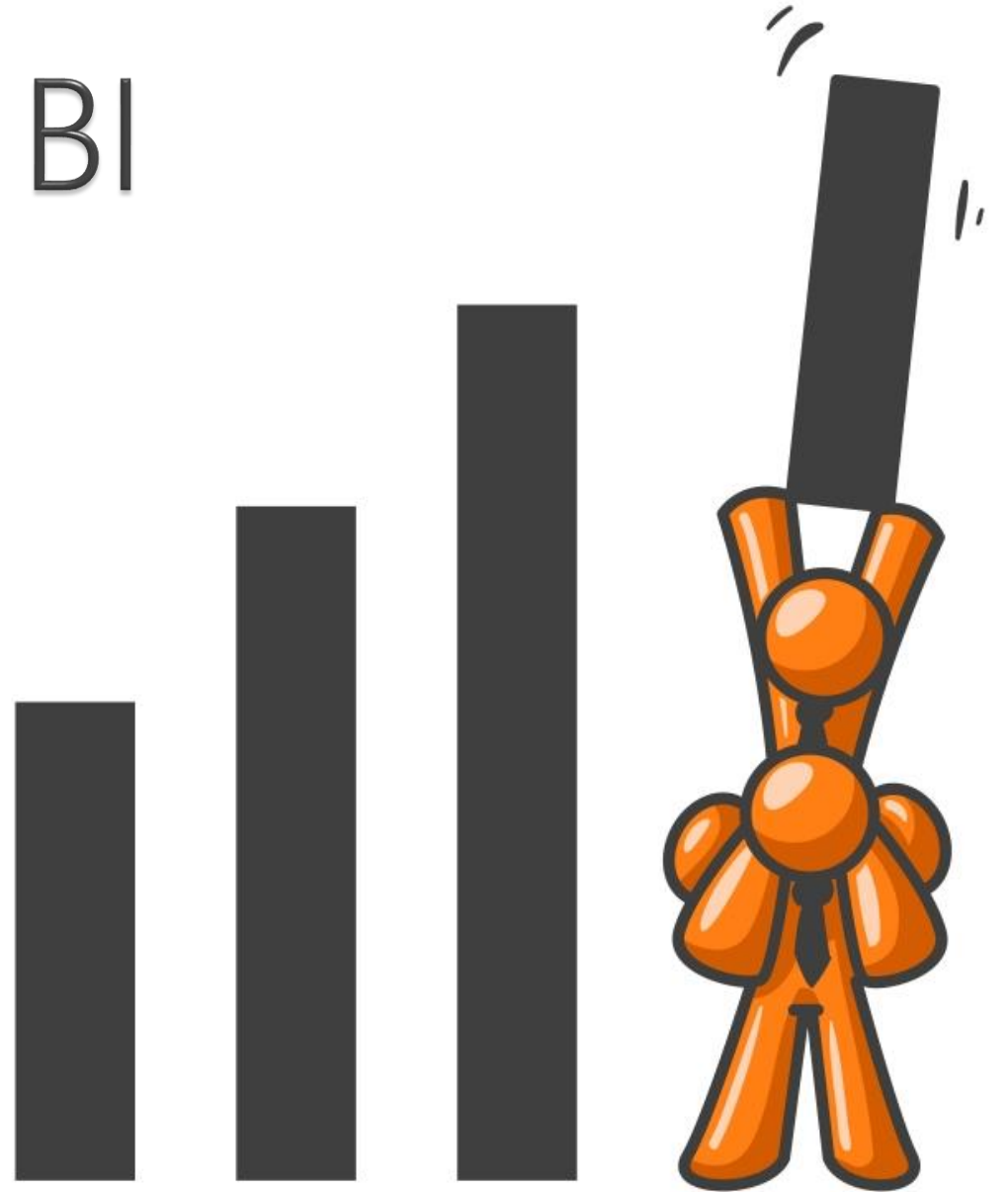
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# Deploying Power BI in the Enterprise

ORANGEMAN



# Just Thorning Blindbæk

- ▶ Founder of MsBIP Denmark
- ▶ Founder/co-leader of Power BI UG Denmark
- ▶ Consultant in justB
- ▶ Trainer at Orange Man
- ▶ 10+ years of experience with Microsoft BI
- ▶ Strong focus on the front-end tools
  - Analysis Services
  - Reporting Services
  - PerformancePoint Services
  - Excel and Power Pivot
  - Power BI
- ▶ [just@blindbaek.dk](mailto:just@blindbaek.dk) / [blog.justB.dk](http://blog.justB.dk) / [@justblindbaek](https://twitter.com/justblindbaek)



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*IT Professional*

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**MAESTRO**  
by Microsoft

**MVP** **Microsoft**  
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# Before we start

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



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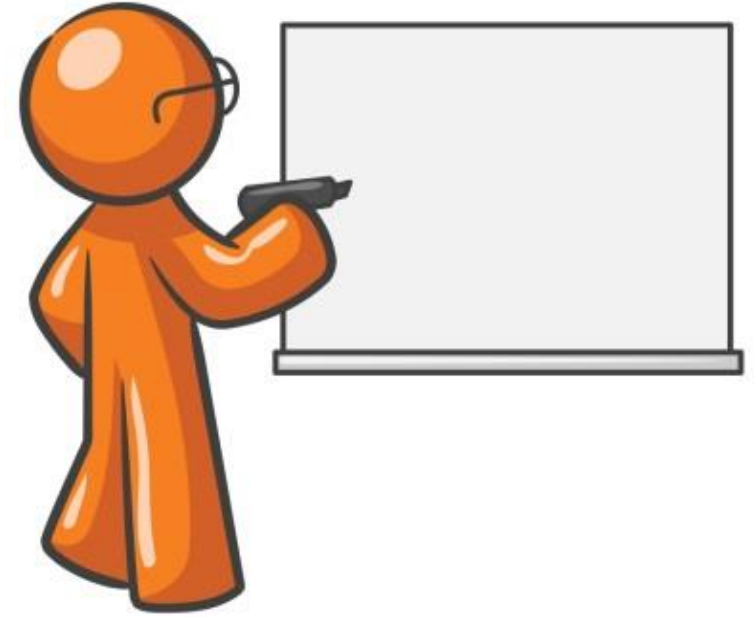
# Agenda

- ▶ Delivery of Power BI
  - ▶ Ownership transfer
  - ▶ Security
  - ▶ Content workflow
  - ▶ Governance
  - ▶ Auditing
- 
- ▶ Raffle, snacks and beers 😊

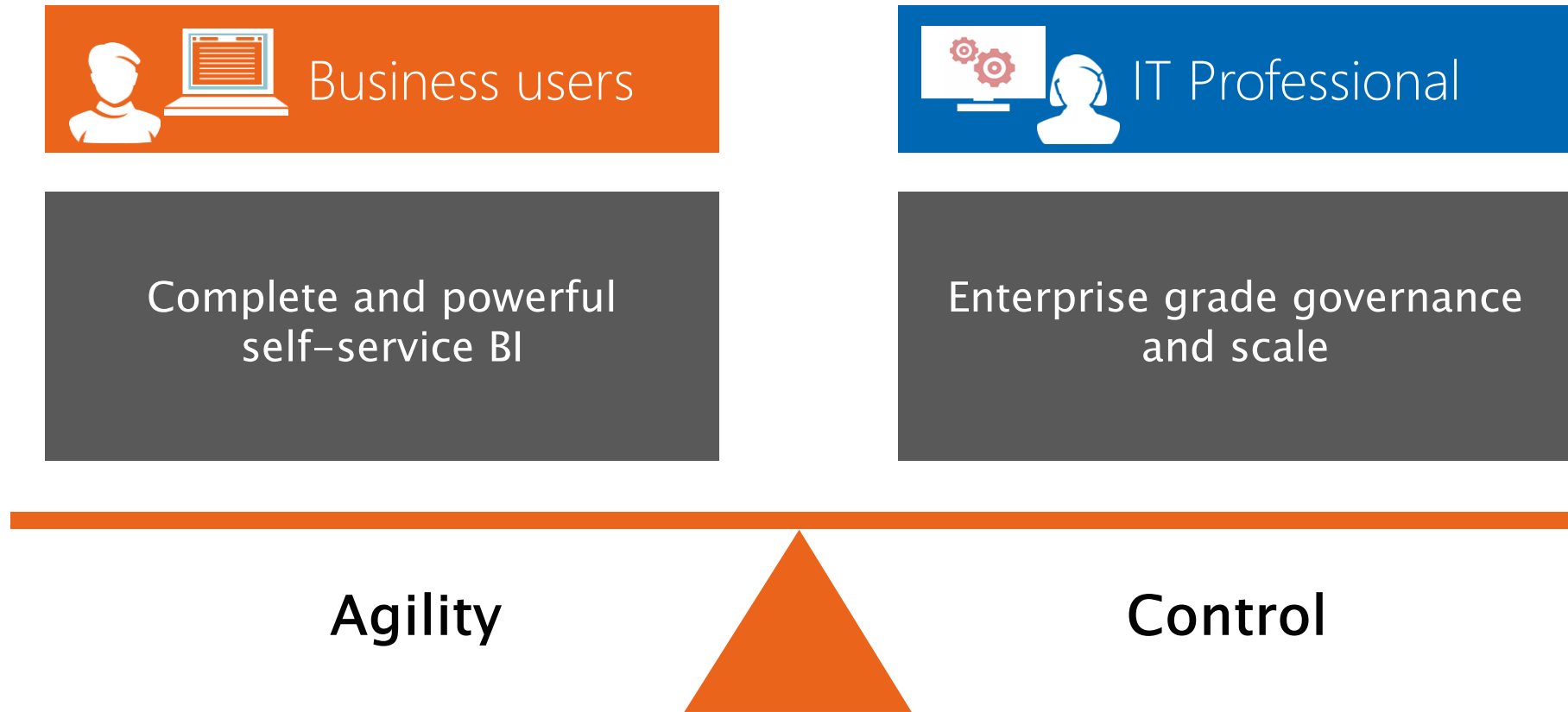


# Delivery of Power BI

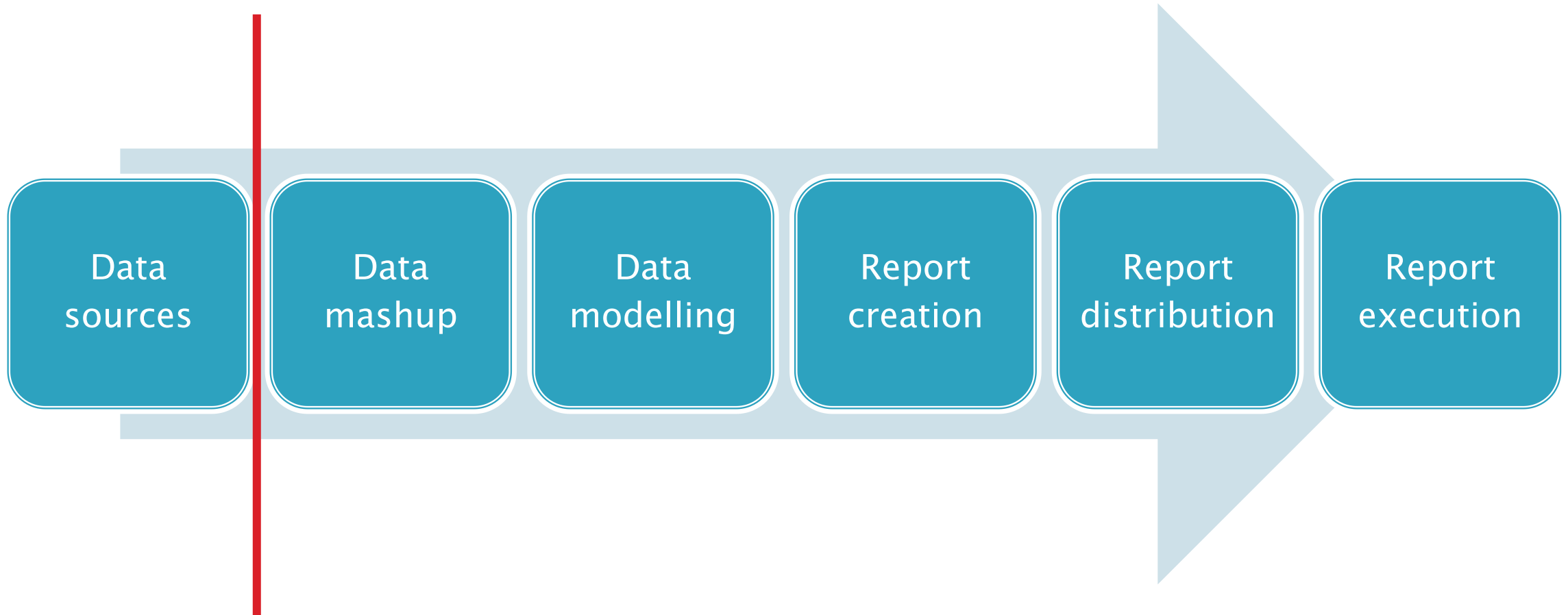
- ▶ Self-service vs. Corporate BI



# Delivering Power BI is not easy

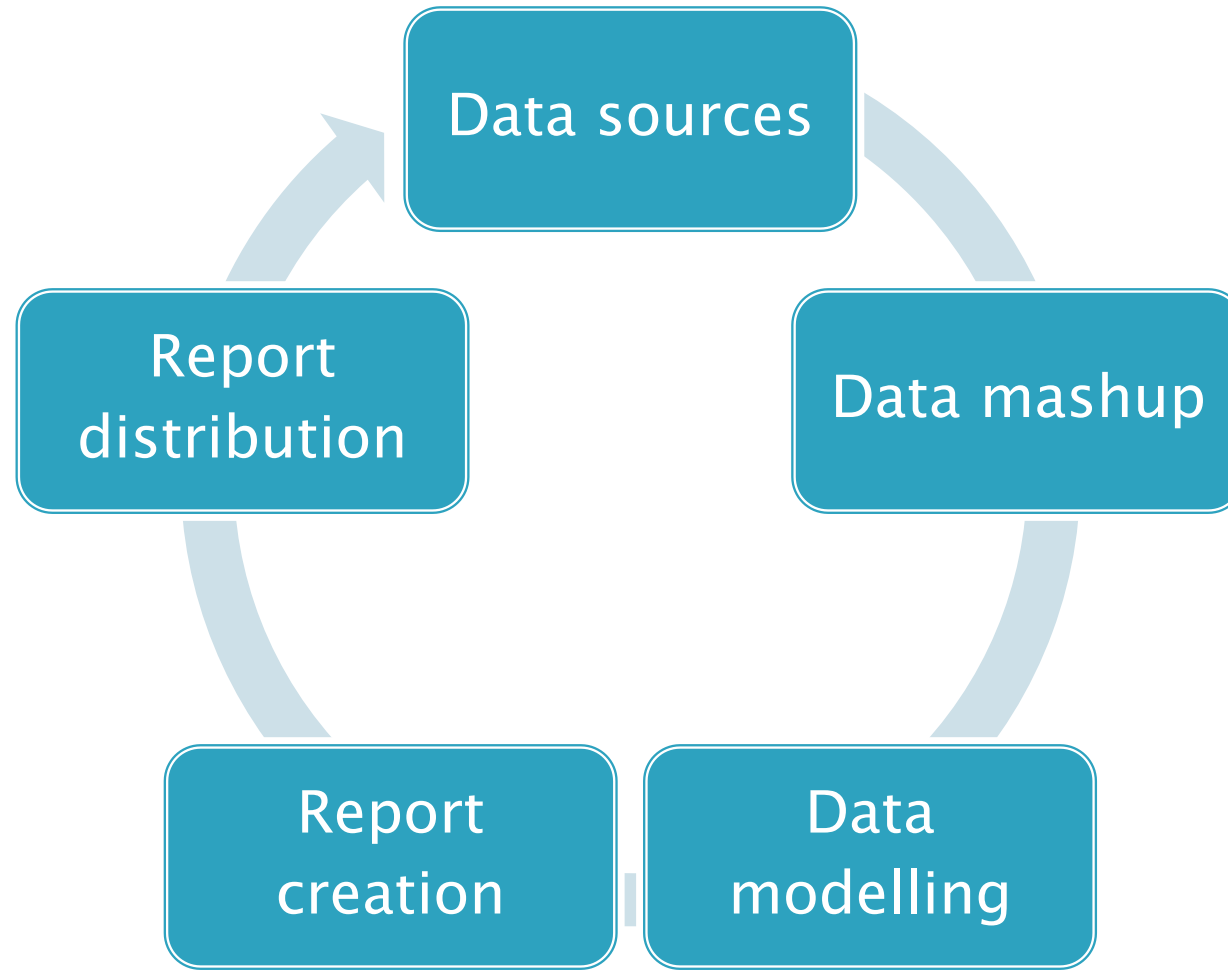


# Power BI development: IT vs Business





# Power BI development: Agile



# 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

## Corporate 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:

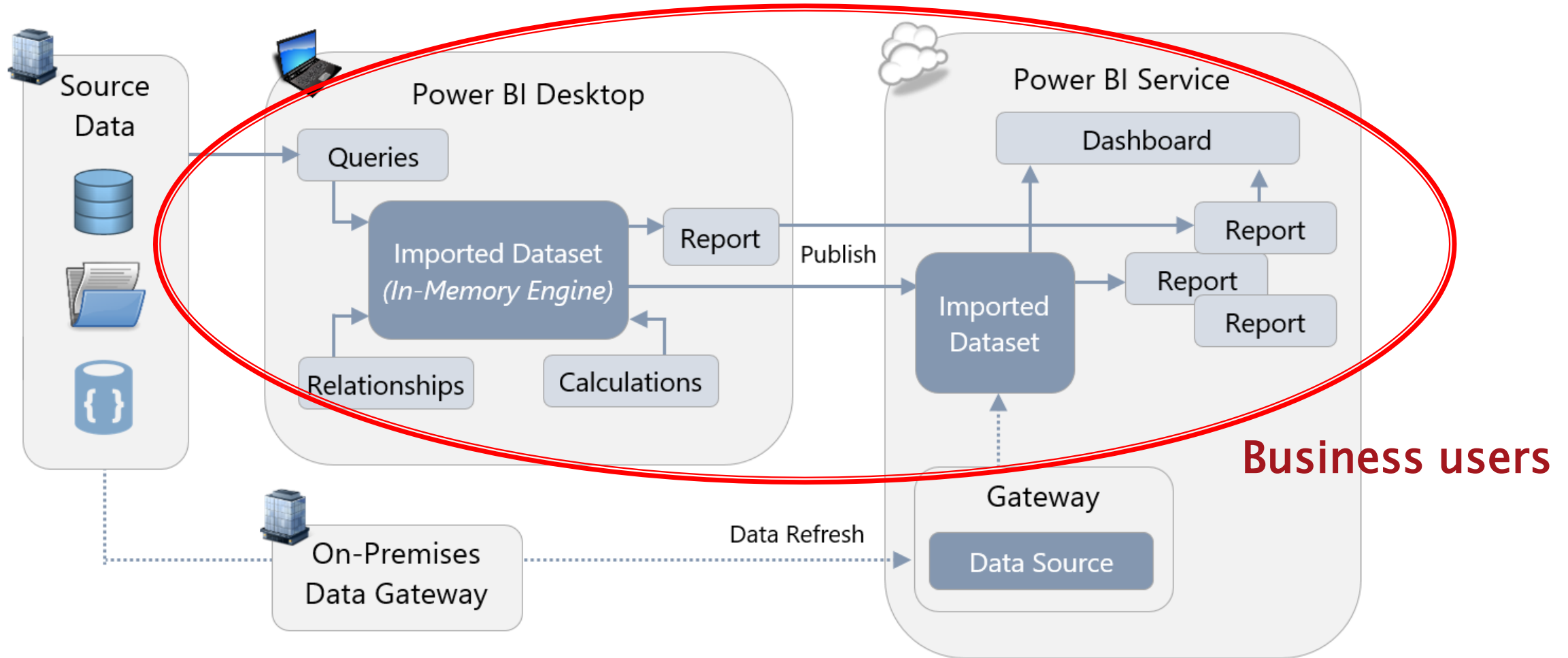
IT



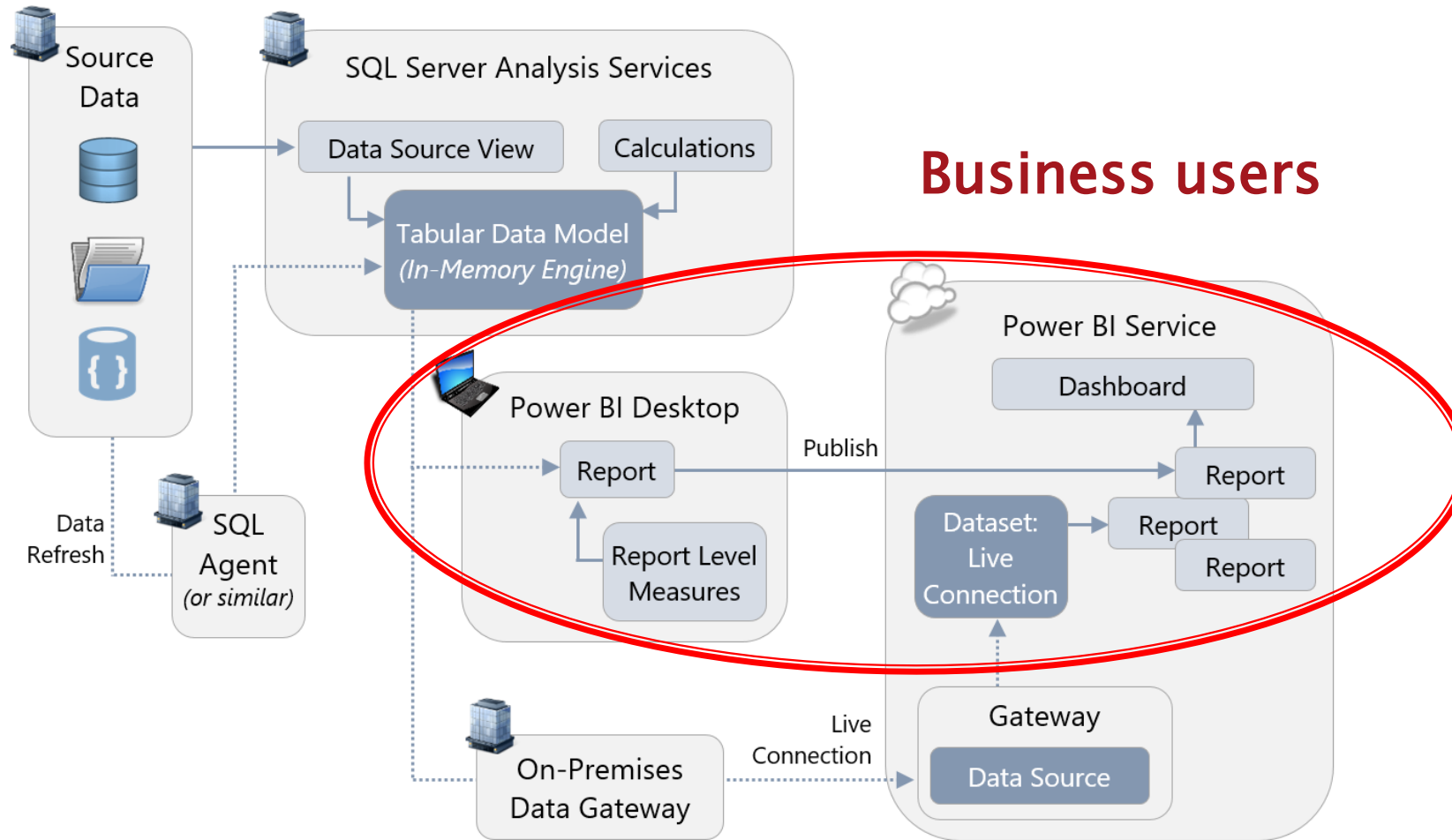
### Ownership Transfer

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.

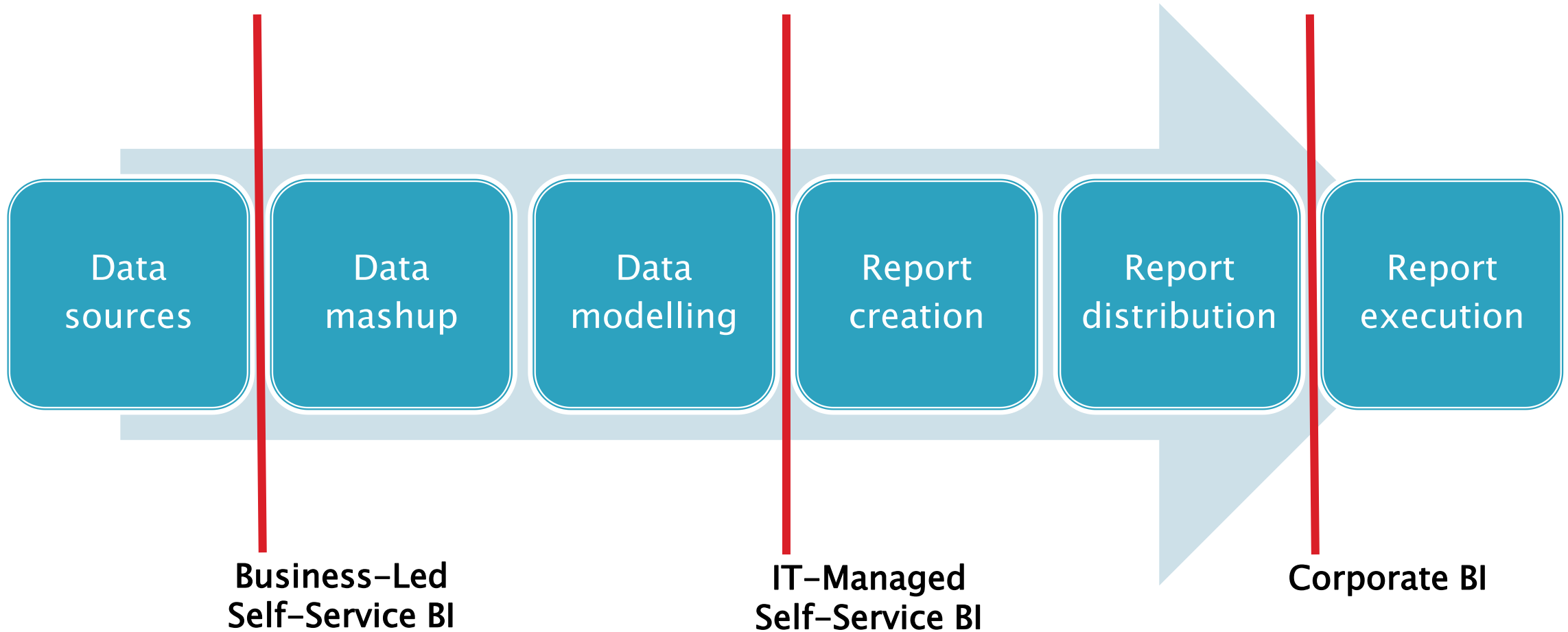
# Business-Led Self-Service BI: Importing Data



# IT-Managed Self-Service BI: Live Connection to Analysis Services

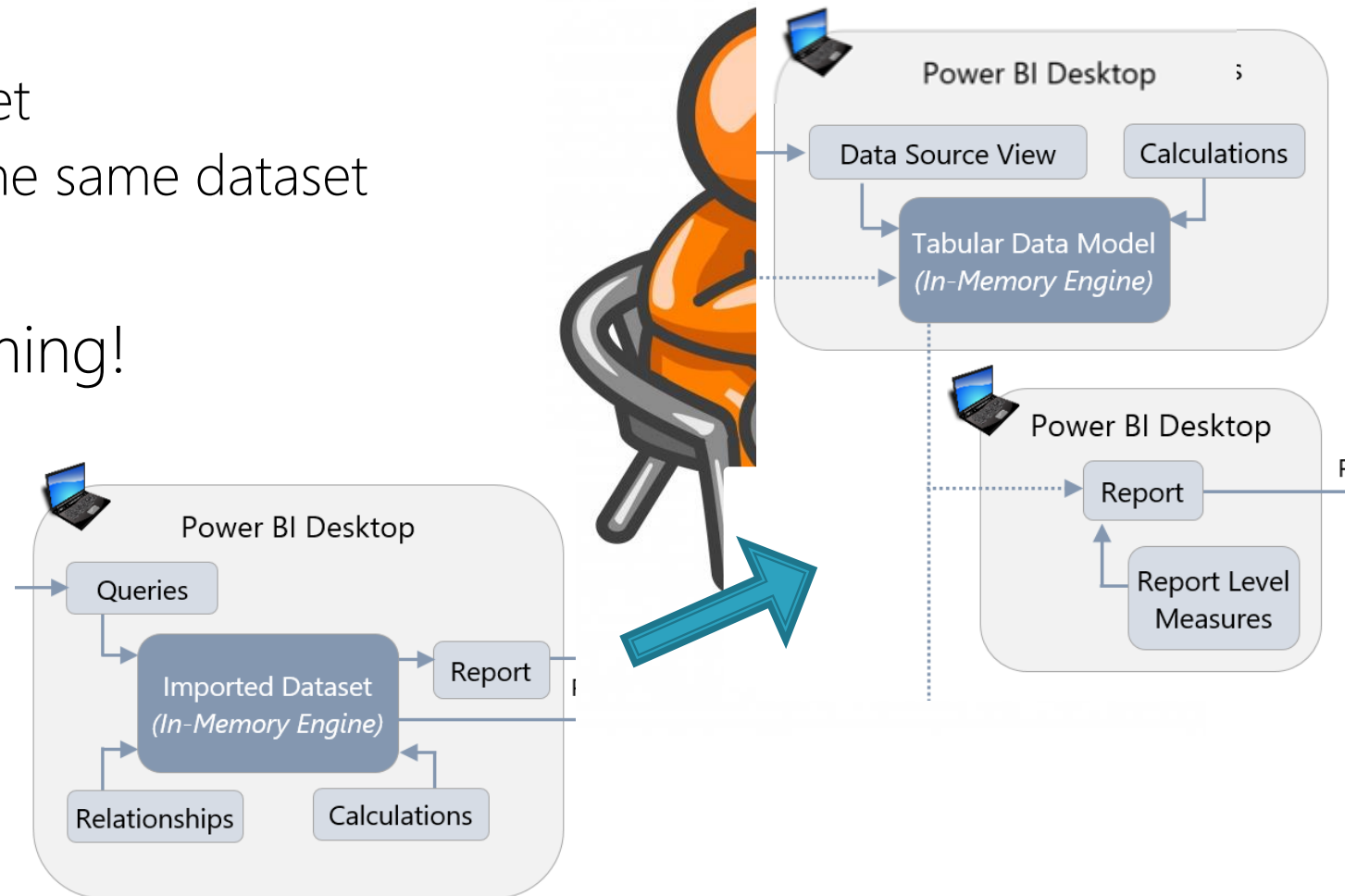


# Recap: Power BI Ownership Approaches



# Demo: Ownership transfer

- ▶ Let se some Magic !
  - Split the report and dataset
  - Connect more report to the same dataset
- ▶ Dataset discovery is coming!
  - Between workspaces
  - Shared datasets
  - Certified datasets

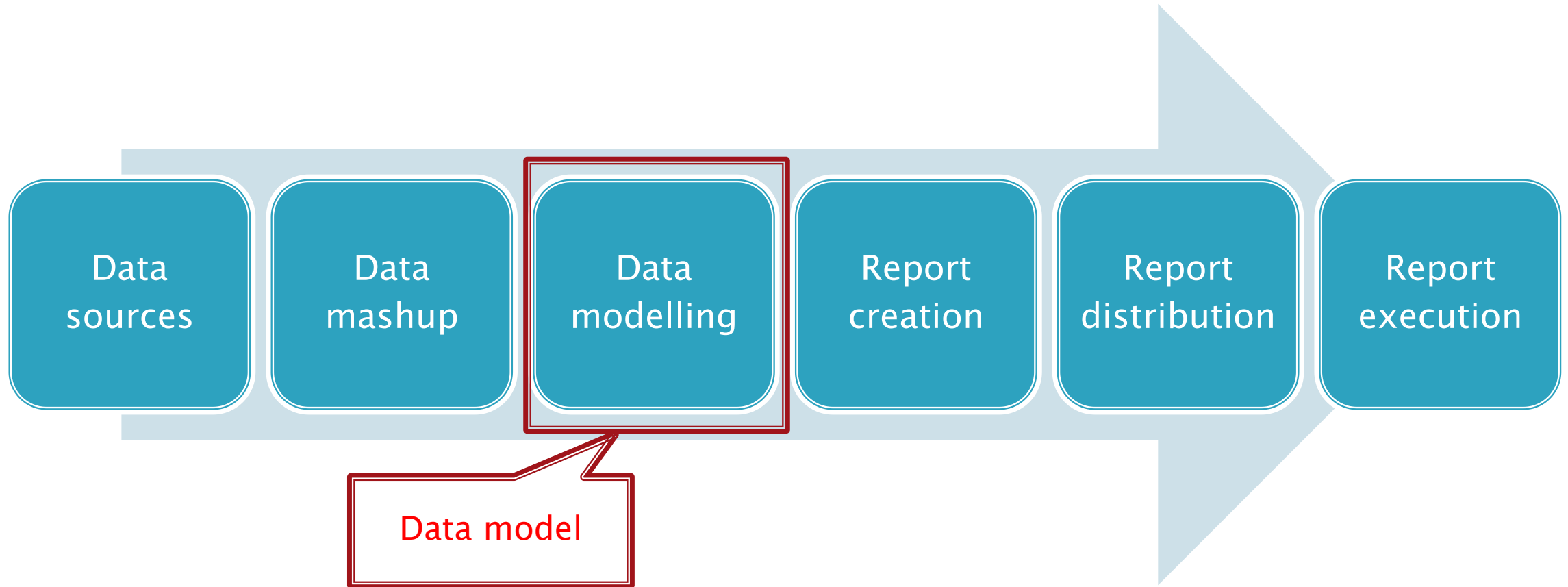


# Security

- ▶ Where and how to set it up?



# Where to setup security





# Demo: Row Level Security

- ▶ Define roles and rules
- ▶ Validate the roles



# Content Workflow

- ▶ Workspaces, Apps, Deployment



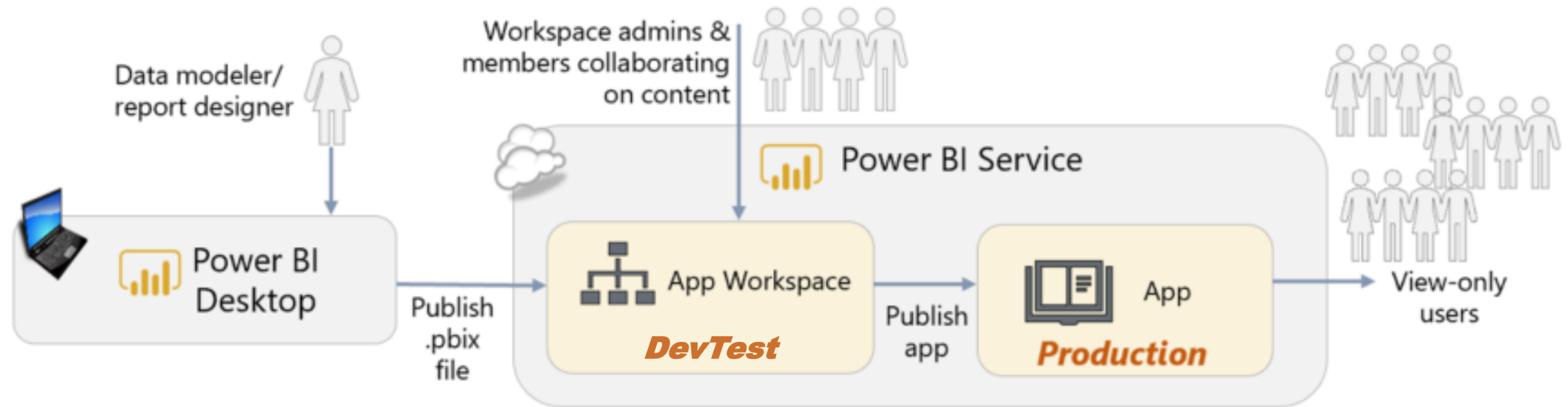
# Workspaces – private and app

- ▶ Everyone has their own private workspace they can publish to: “My Workspace”
  - 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 and contributors – viewer role is forthcoming.

# 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

# App deployment process

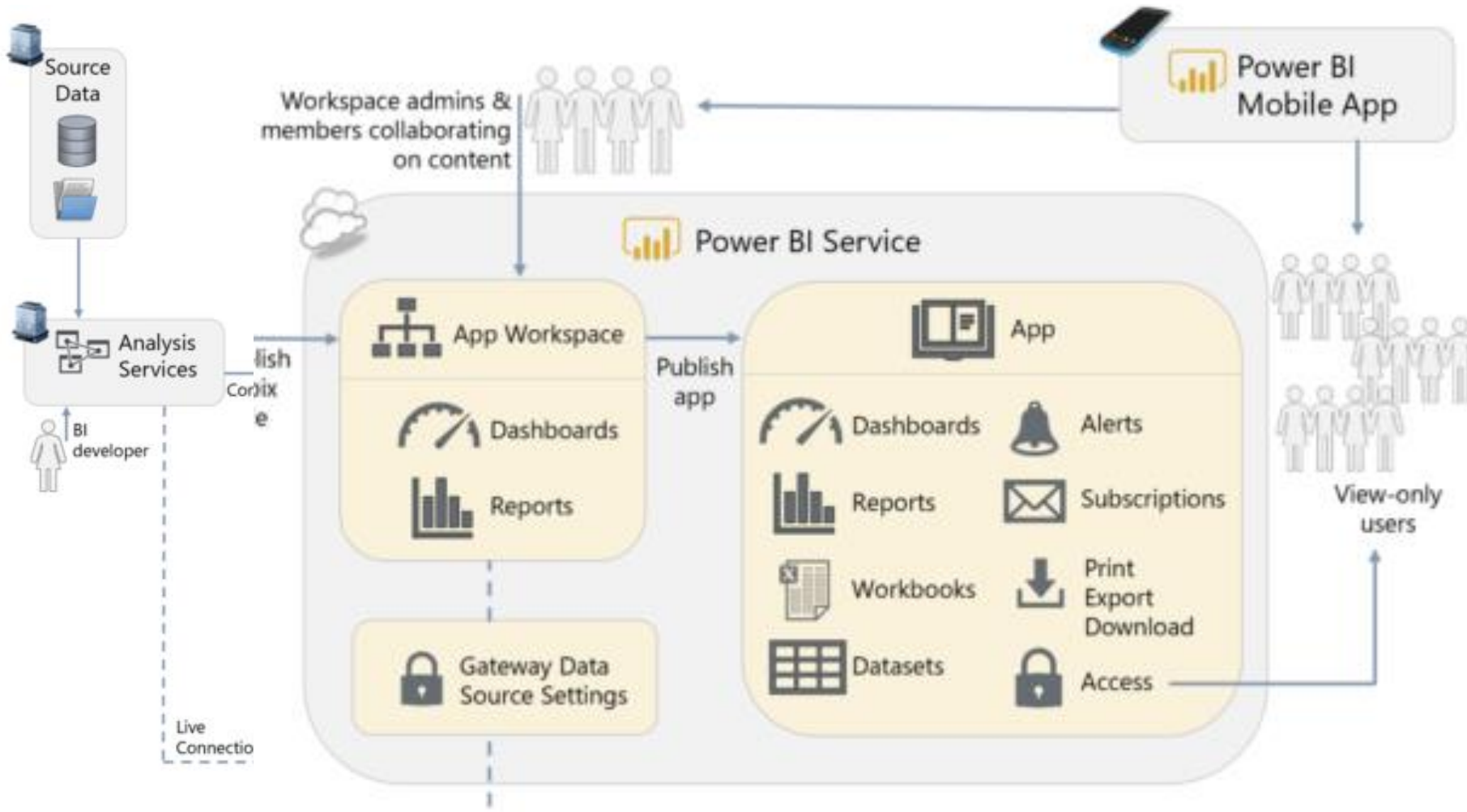


# Demo: Content Workflow

- ▶ Create App Workspace
  - New experience preview
- ▶ Publish App
  - Setup view/execution security



# Full architecture: IT-Managed Self-Service BI



# Governance

- ▶ What and how?





# Where can you implement governance?

- ▶ Transfer the ownership
  - Gateway Data Sources
- ▶ Data refresh
  - Gateway Data Sources
- ▶ Service tenant settings
  - Admin portal
  - Create App workspaces
  - Deploy Apps
  - Sharing
- ▶ Setup processes
  - Review, test, approval



# Demo: Tenant settings in the admin portal

- ▶ Enabled for the entire organization
- ▶ Disabled for the entire organization
- ▶ Enabled for a subset of the organization
- ▶ Disabled for a subset of the organization



# Auditing

- ▶ Monitoring the usage



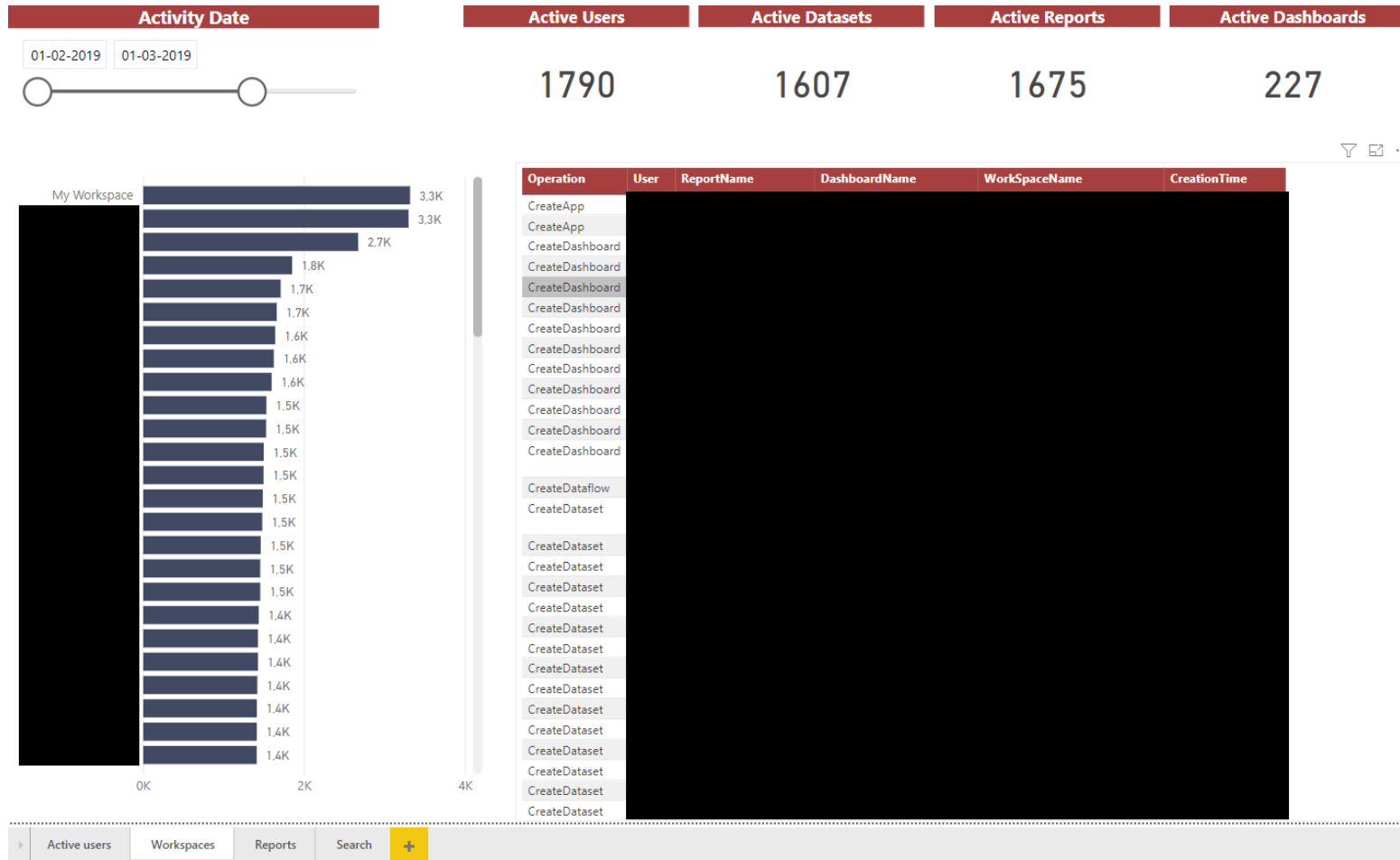
# Auditing and monitoring

- ▶ What are the users doing?
- ▶ Report/Dashboard/workspace level
  - Usage Metric Reports
- ▶ Tenant level – O365 Admin Center
  - Usage Metrics and Audit Logs
  - Adhoc export
  - Extract with Powershell

## Audit Log activities:

- ▶ Viewed
- ▶ Created
- ▶ Download
- ▶ Exported
- ▶ Refreshed
- ▶ Printed
- ▶ Removed
- ▶ ...

Report created from Audit log data



# Questions



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# Usefull ressources



- ▶ Planning a Power BI Enterprise Deployment (whitepaper): <https://go.microsoft.com/fwlink/?linkid=2057861>
- ▶ Implement Row-level security (documentation): <https://docs.microsoft.com/en-us/power-bi/desktop-rls>
- ▶ Planning Large-Scale Power BI Deployments (video): <https://www.youtube.com/watch?v=PgS2kuD94xA>
- ▶ Administering Power BI in the admin portal (how-to): <https://docs.microsoft.com/en-us/power-bi/service-admin-portal>
- ▶ Build Your Own Power BI Audit Log (blog): <http://radacad.com/build-your-own-power-bi-audit-log-usage-metrics-across-the-entire-tenant>

# Thanks to our sponsors:

The MIRACLE logo features the word "MIRACLE" in a blue, rounded, sans-serif font, with a small yellow star positioned above the letter "i".The expectus logo features the word "expectus" in a black, lowercase, sans-serif font, with a small orange "x" character integrated into the letter "p".



# Bonus slides

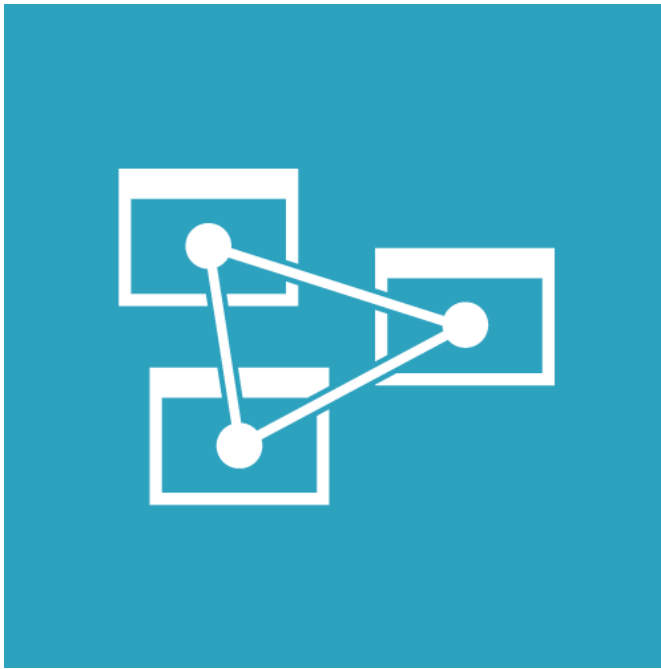
- ▶ Big news !
- ▶ Taking **transfer** ownership to the NEXT level



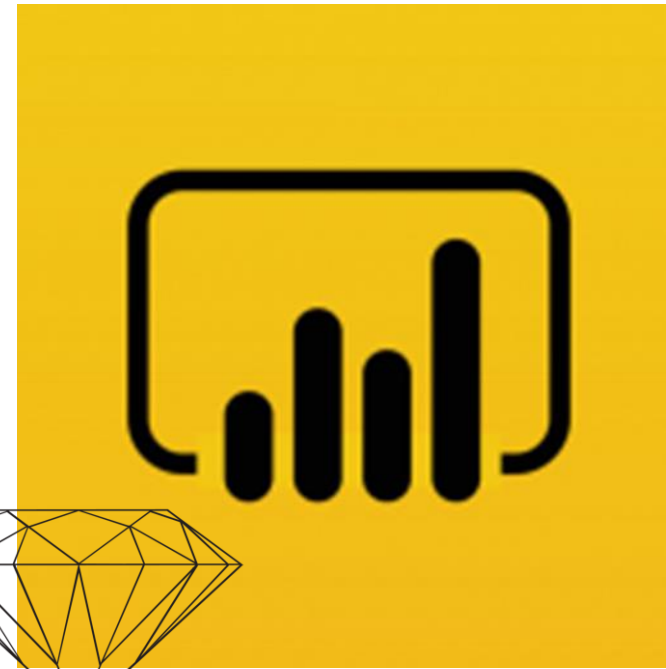
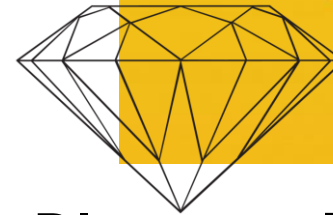
# Power BI merging with Azure AS

Enterprise BI

All BI users Self-service BI users

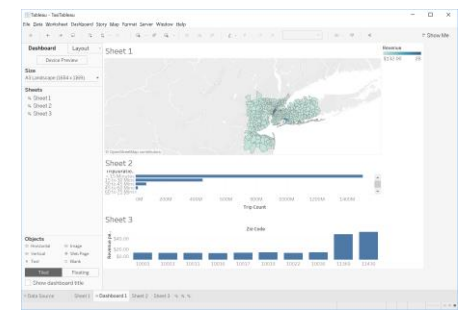
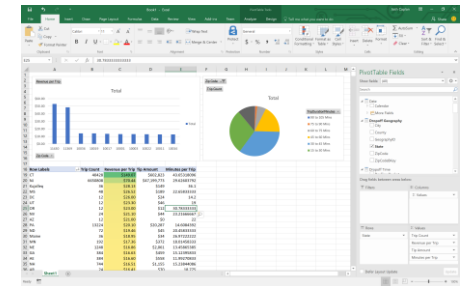
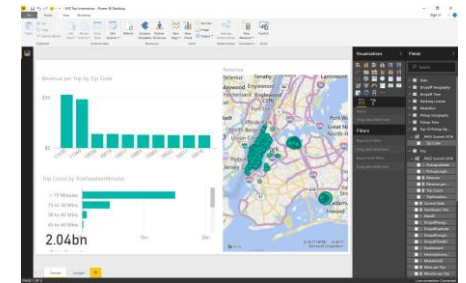
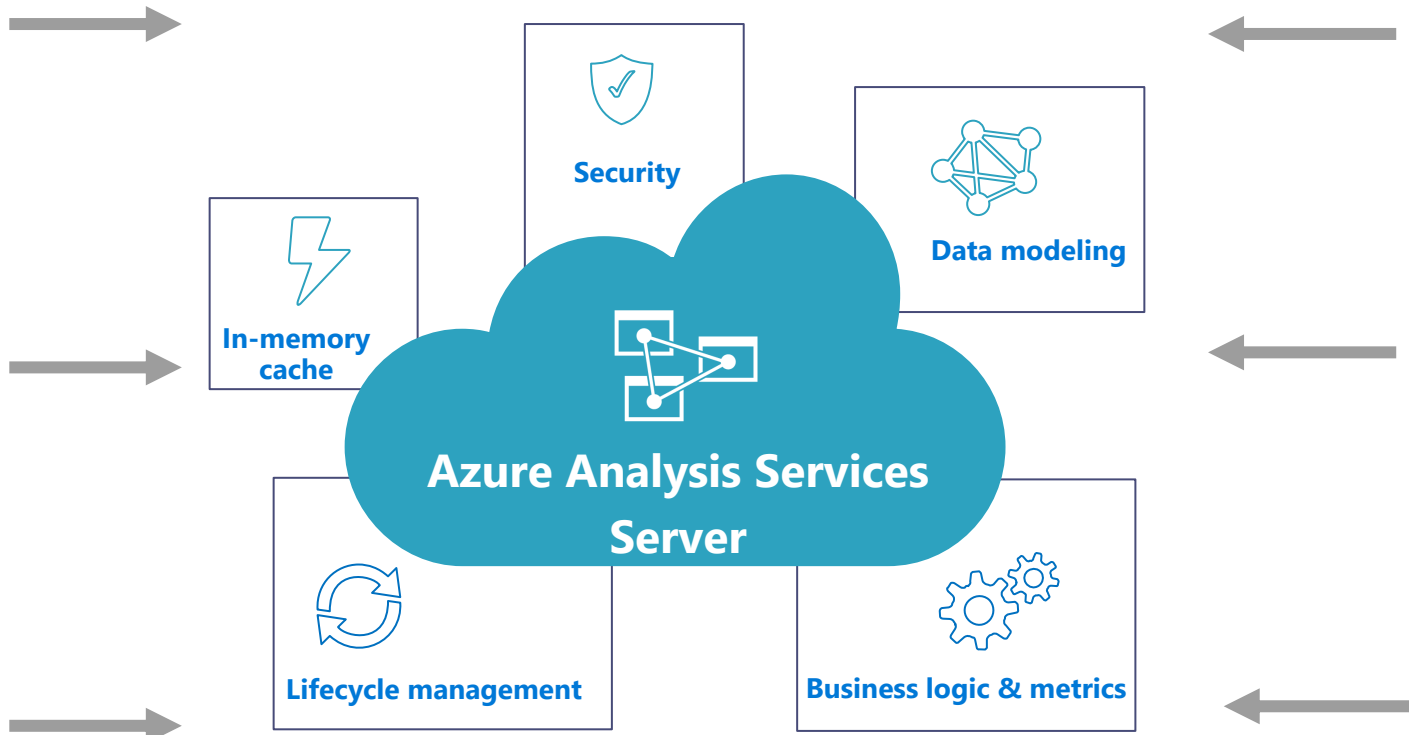
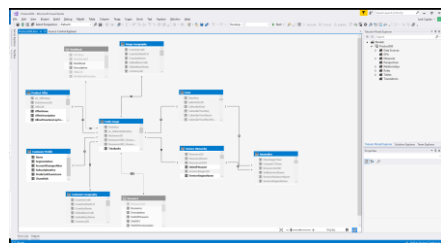
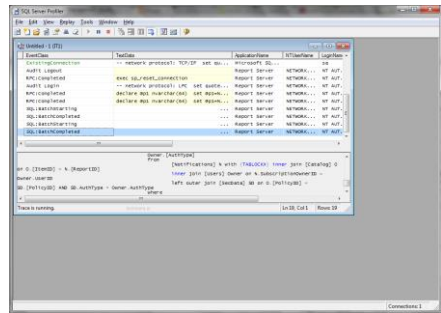
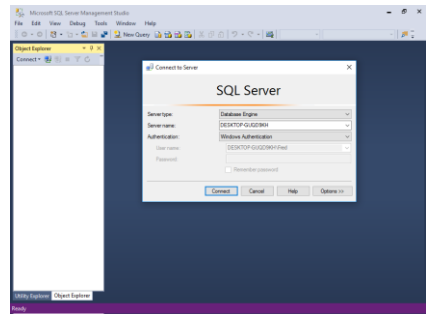


Azure Analysis Services Power BI  
Premium

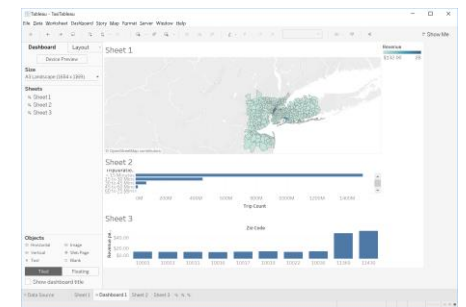
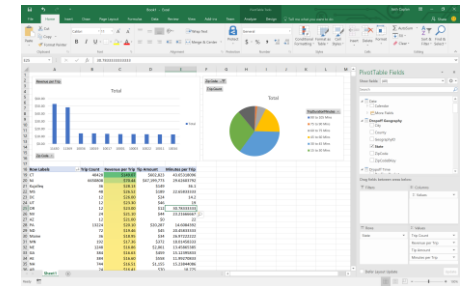
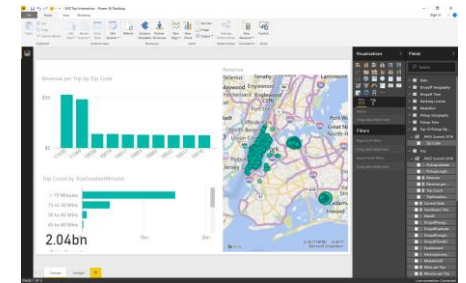
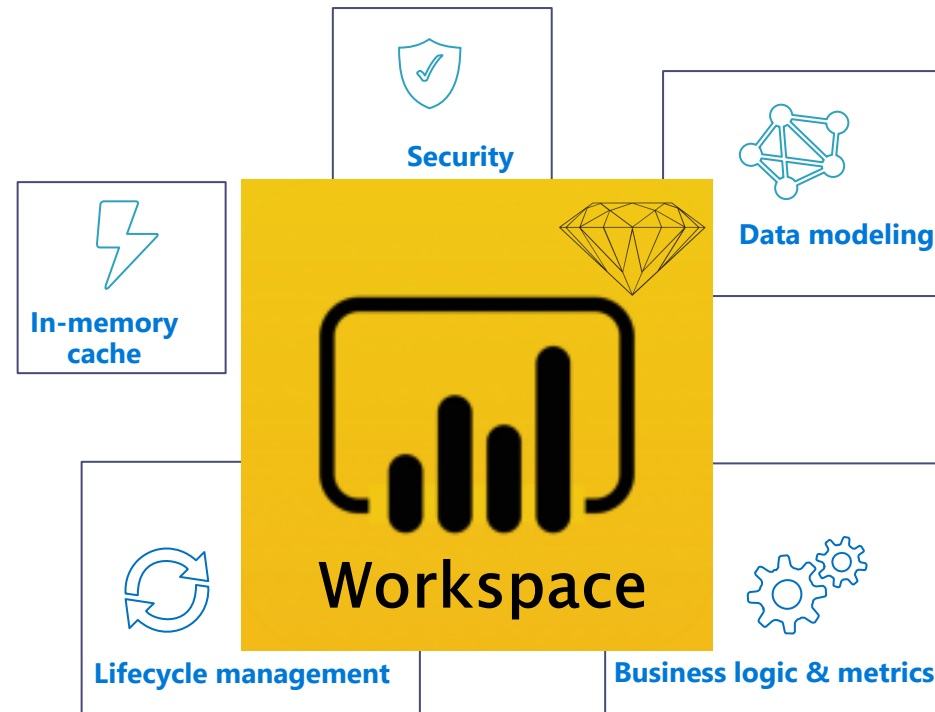
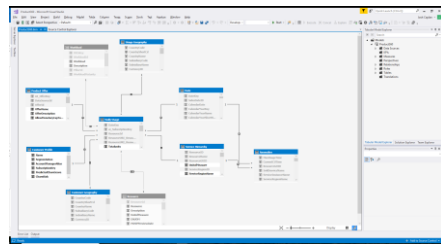
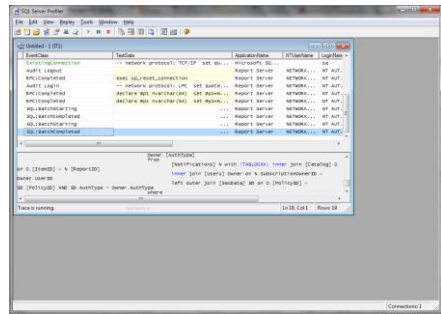
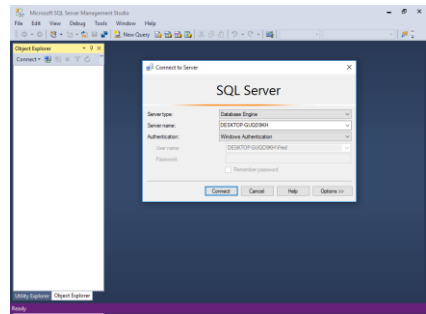


Power BI

# Connectivity: Analysis Services



# Connectivity: Power BI Premium



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# Full architecture: IT-Managed Self-Service BI

