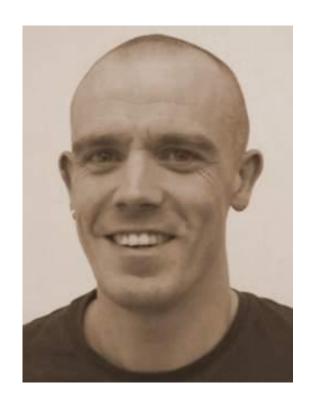
Enterprise and Self-service in Power BI

Better together



Just Thorning Blindbæk

- ▶ Founder 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 Bl
- just@blindbaek.dk / blog.justB.dk / @justblindbaek







SSAS MAESTRO by Microsoft

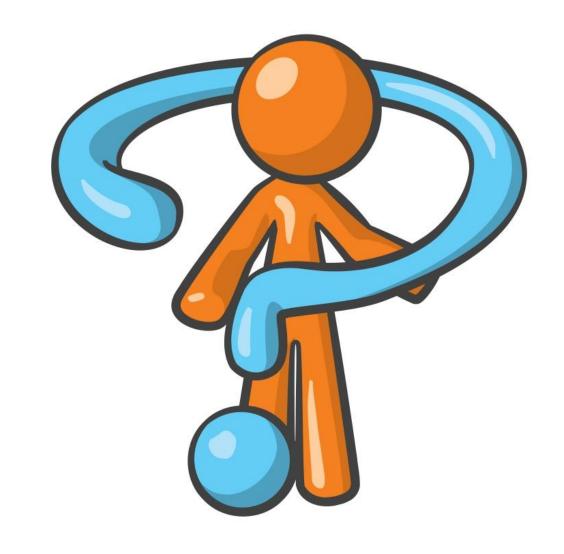




Before we start

- Business Users?
- ▶ IT Professionals?

▶ All in one?



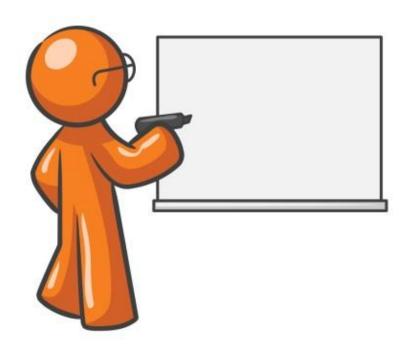
Agenda

- Delivery of Power BI
- Ownership transfer
- Security
- Content workflow
- Governance



Delivery of Power BI

Self-service vs. Corporate BI





Delivering Power BI is not easy



Complete and powerful self-service BI



Enterprise grade governance and scale

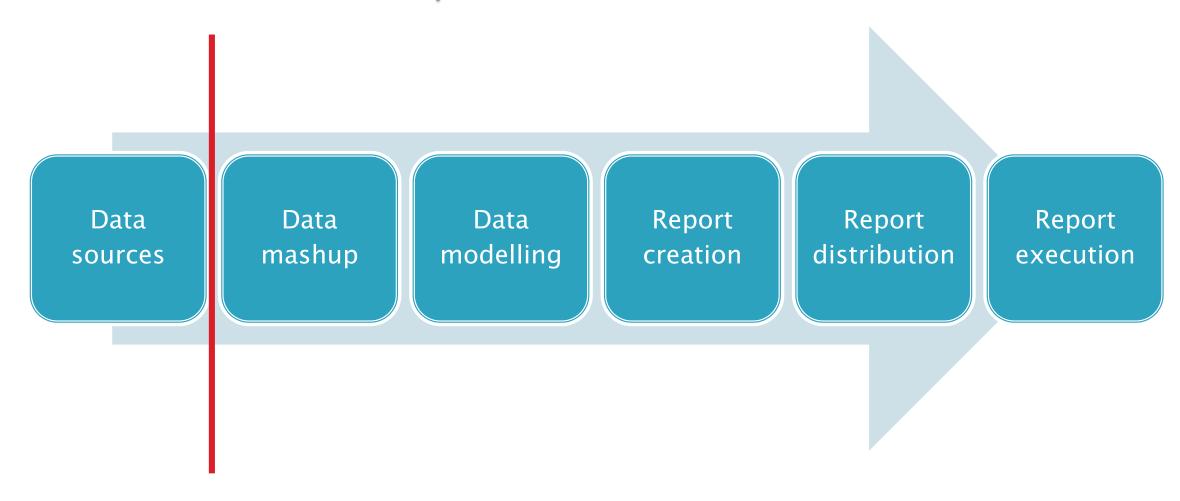
Agility



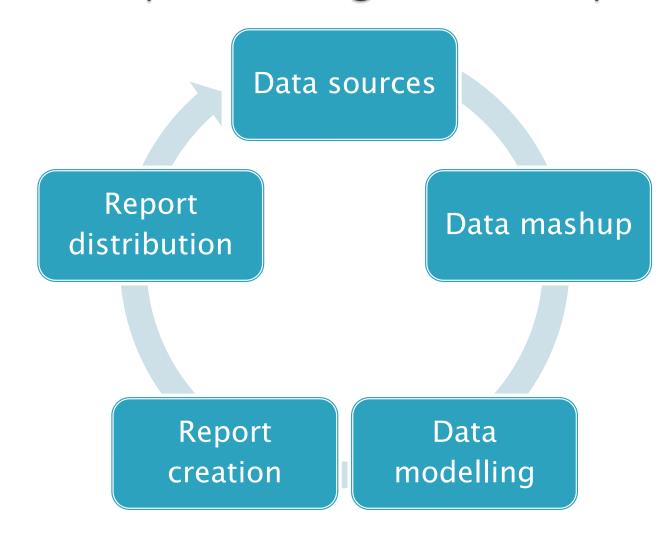
Control



Power BI development: IT vs Business



Power BI development: Agile development





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

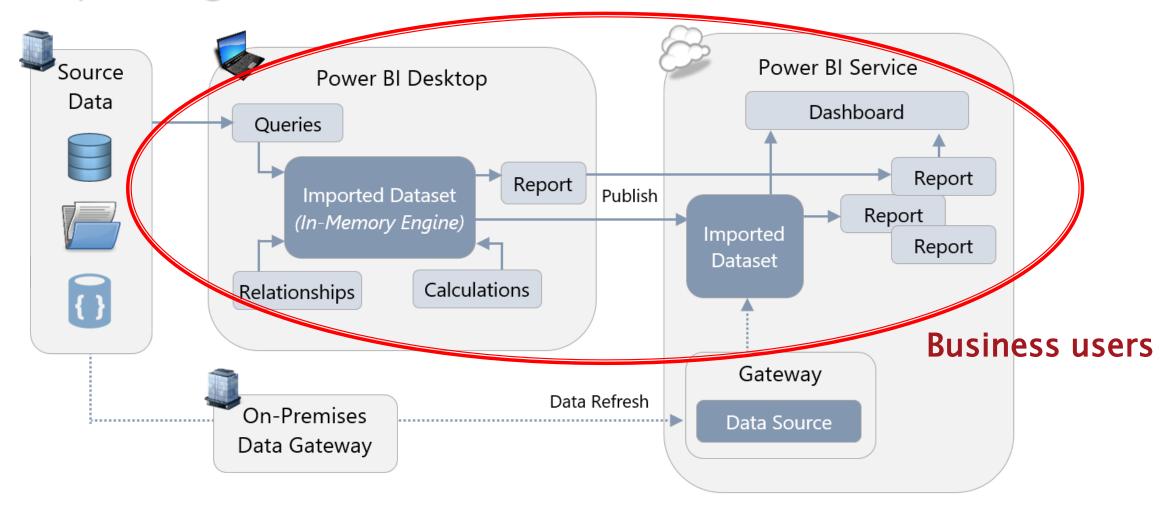
Governed by:

П

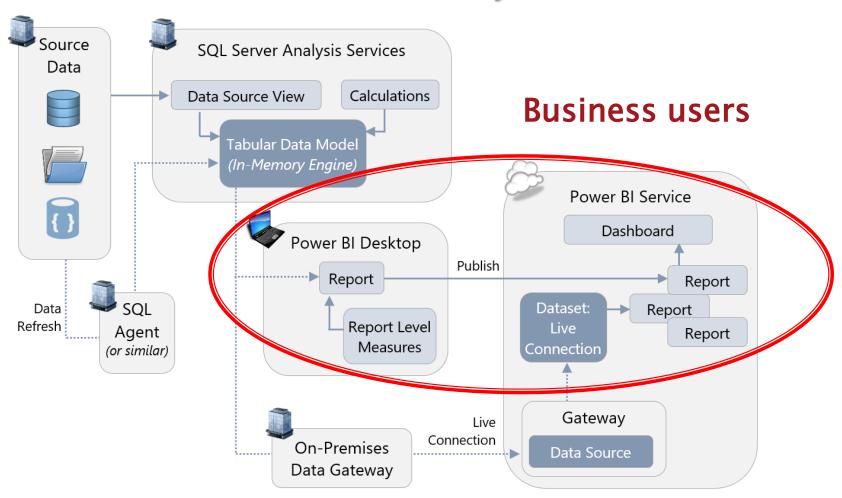
Ownership Transfer

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

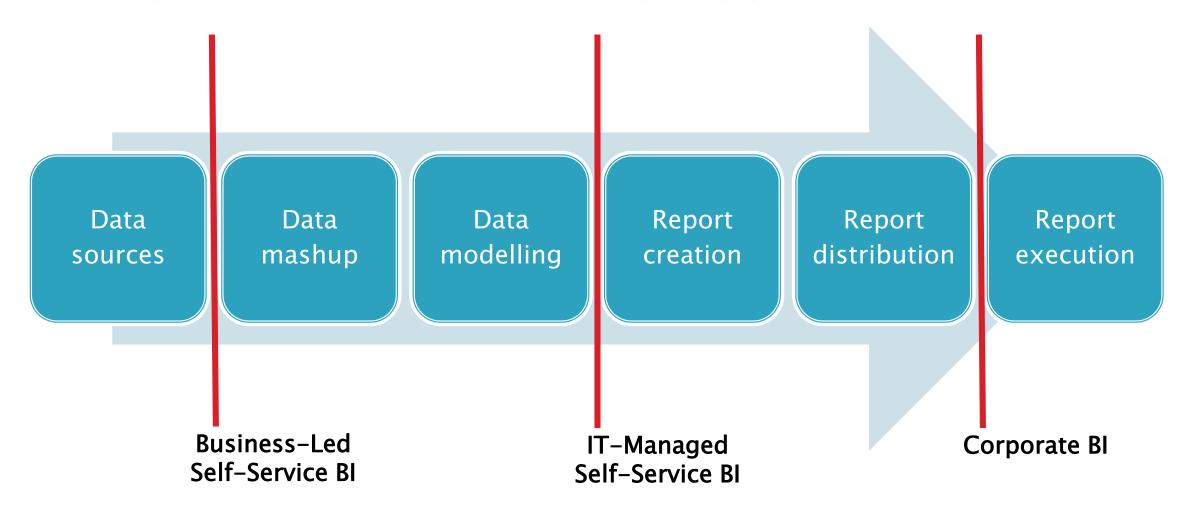


IT-Managed Self-Service BI: Live Connection to Analysis Services



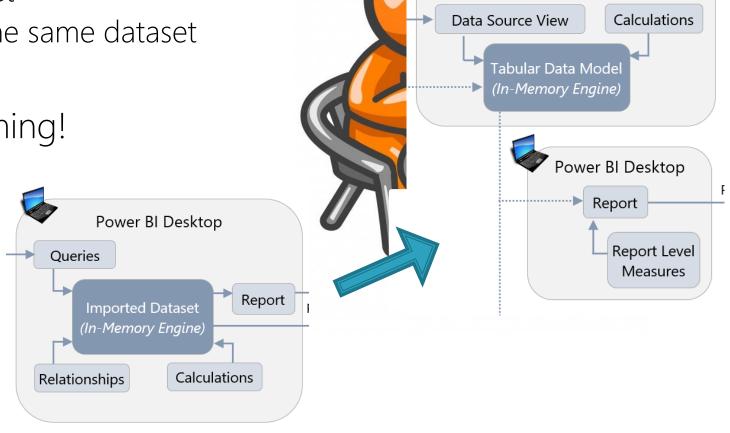


Recap: Power BI Ownership Approaches



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



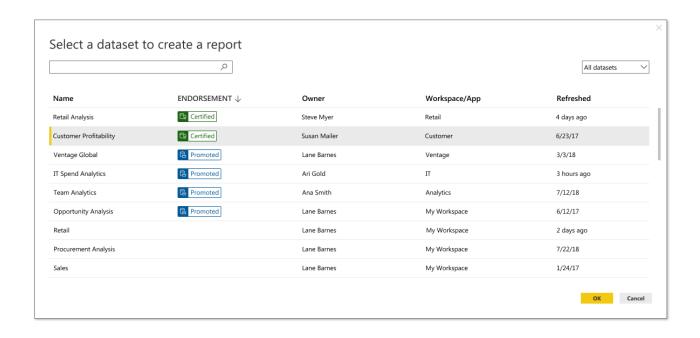
Power BI Desktop



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

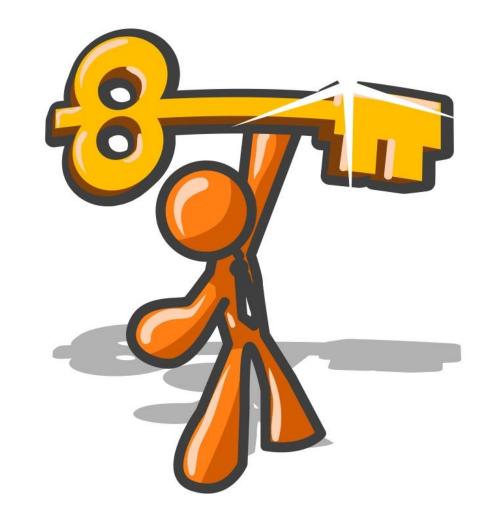
- Preview feature
 - Rolling out these days!



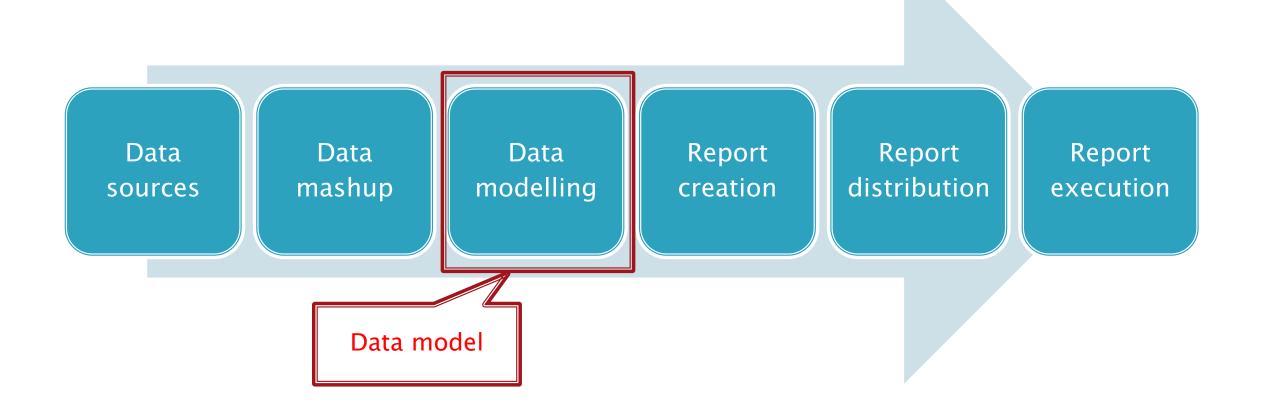


Security

Where and how to set it up?



Where to setup security



Row-level Security (RLS)

- Restrict data access for given users on row level
- Define roles and rules in Power BI Desktop
 - DAX expressions. Eg. Customer[City] = "Atlanta".
- Validate the roles in Power BI Desktop
- Assign users to roles in the Power BI Service
- Dynamic security can be setup within Power BI Desktop by making use of the username() or userprincipalname() DAX functions

Content Workflow

Workspaces, Apps, Deployment





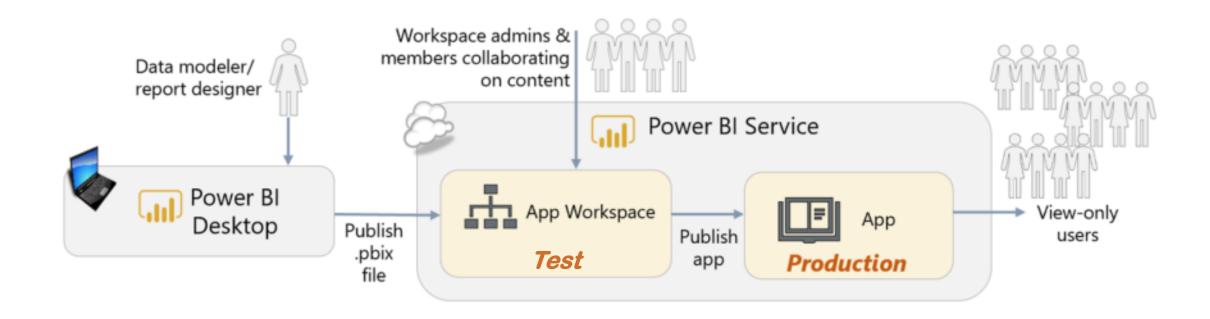
Workspaces – private and app

- Everyone has their own private workspace they can publish to. Its called: "My Workspace". Only use it for:
 - Personal usage
 - Testing purposes
- App 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.

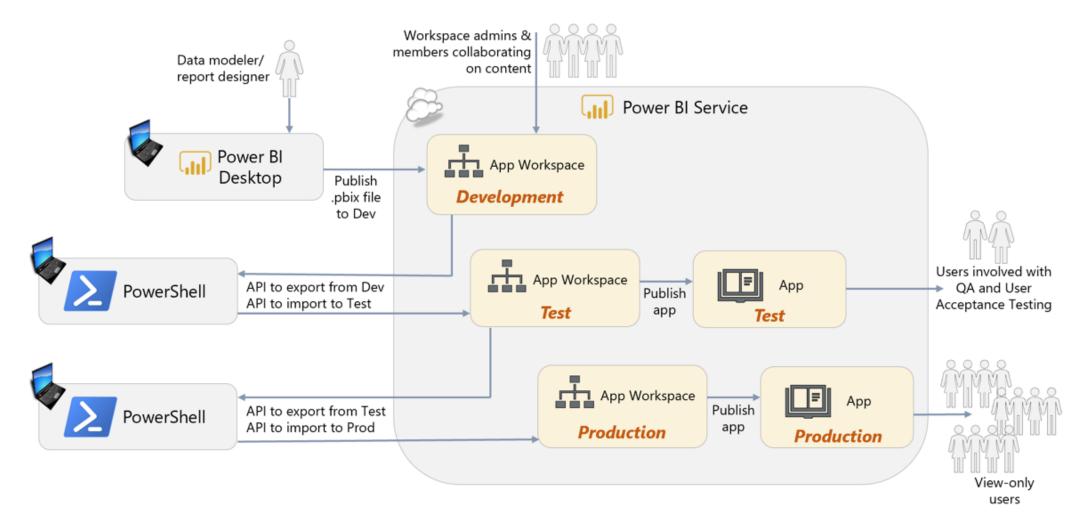
Apps

- ▶ 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
- New: App navigation experience!
 - Customize the name of your app

Simple App deployment process



Advanced App deployment process





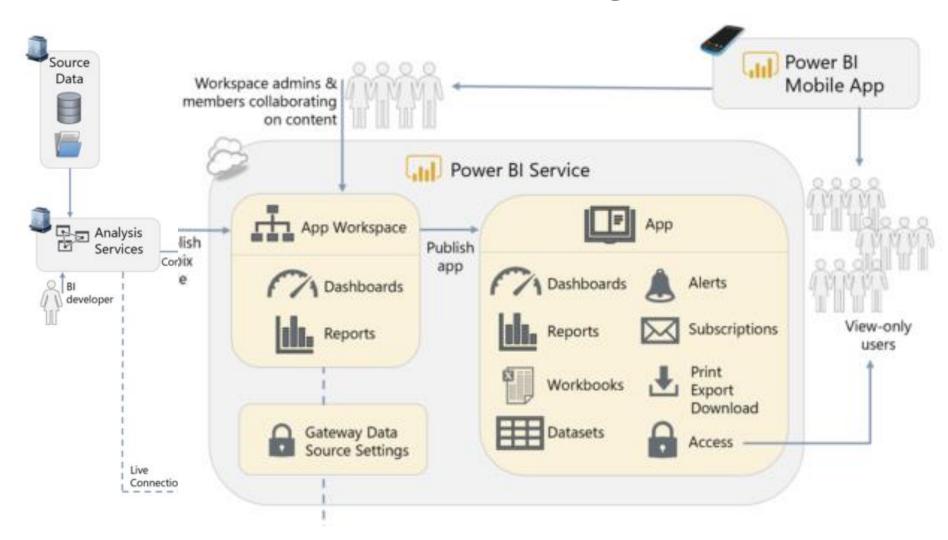
Demo: Content Workflow

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





Full architecture: IT-Managed Self-Service BI



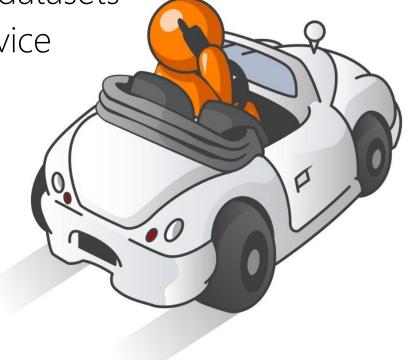
XMLA endpoints – open-platform connectivity

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

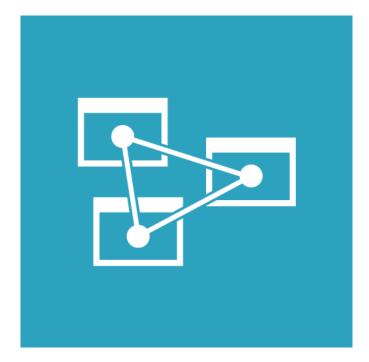
▶ Taking transfer ownership to the NEXT level

- Preview feature!
- Requires Premium capacity!

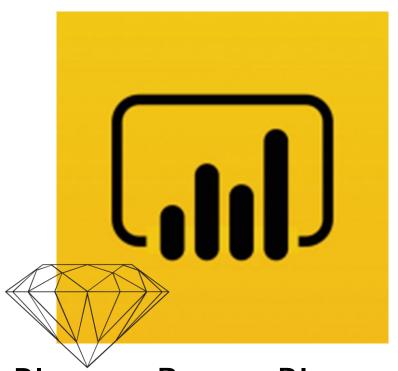


Power BI merging with Azure AS

Enterprise Bl All Bl usedf-service Bl users

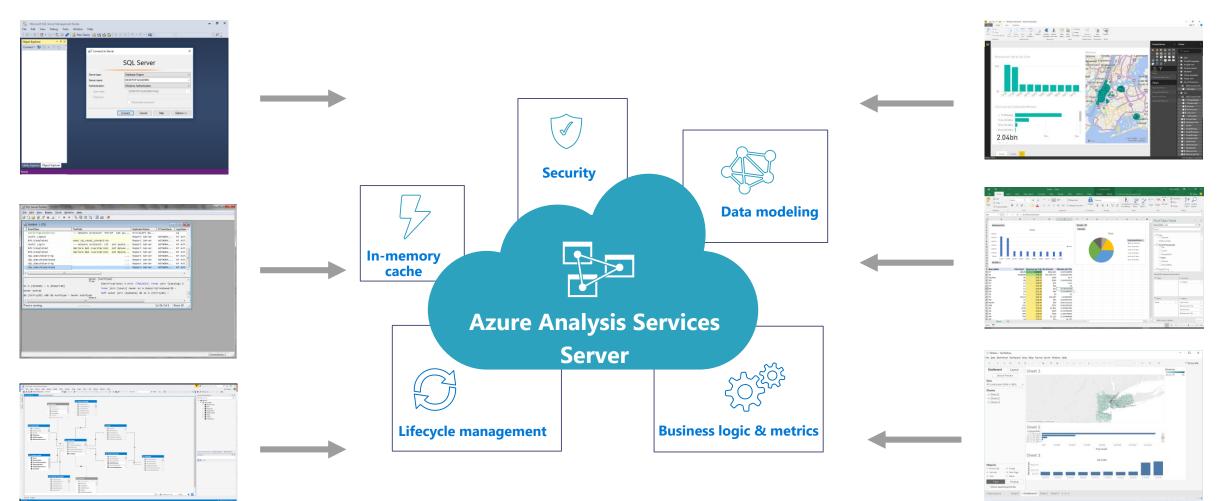


Azure Analysis Services Power BI
Premium



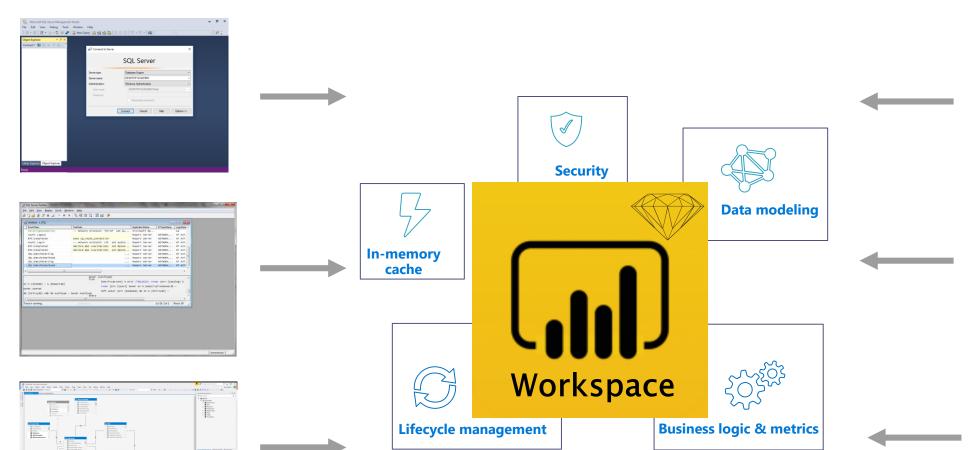
Power BI

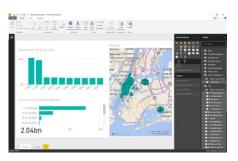
Connectivity: Analysis Services





Connectivity: Power BI Premium

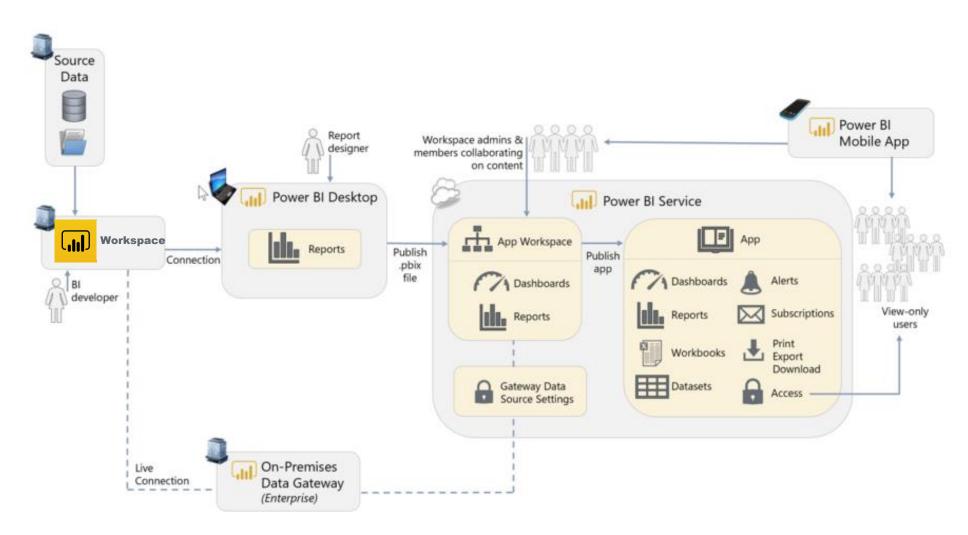








Full architecture: IT-Managed Self-Service BI



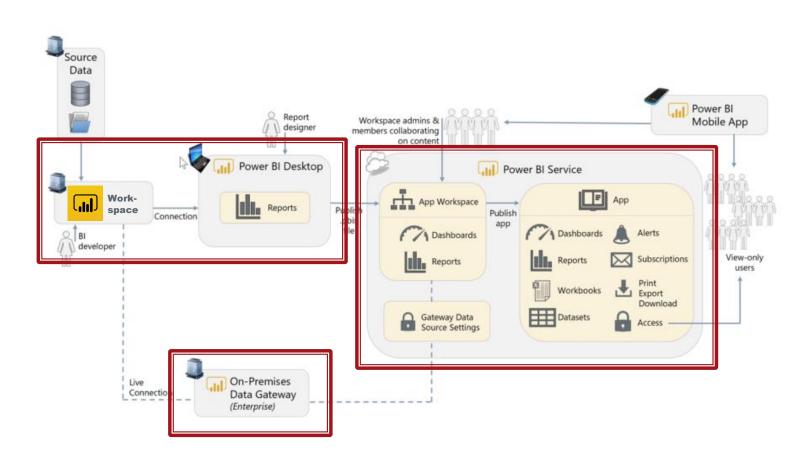
Governance

▶ What and how?



Where can you implement governance?

- Transfer the ownership
- 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





Questions



Usefull ressources

- Planning a Power BI Enterprise Deployment (whitepaper): https://go.microsoft.com/fwlink/?linkid=2057861
- 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
- Designing custom navigation for Power BI apps: https://powerbi.microsoft.com/en-us/blog/designing-custom-navigation-for-power-bi-apps-is-now-available/
- ► Shared and certified datasets: https://powerbi.microsoft.com/en-
 us/blog/heads-up-shared-and-certified-datasets-are-coming-to-power-bi/

