

Power BI – Visualizations

April 2018

Insights & Data



AGENDA



Power BI Overview

- Introduction to Power BI
- Power BI workflow
- Building Blocks of Power BI
- Power BI Architecture

Power BI Components

- Power BI Components
- Power BI Desktop
- Power BI Service
- Power BI Mobile App
- Power BI Report Server

Power BI Features

- Quick Insights
- Data Exploration
- Sharing Dashboards

Easy Implementation

- Power BI and excel
- Publishing to cloud services
- Workbooks and Sheets

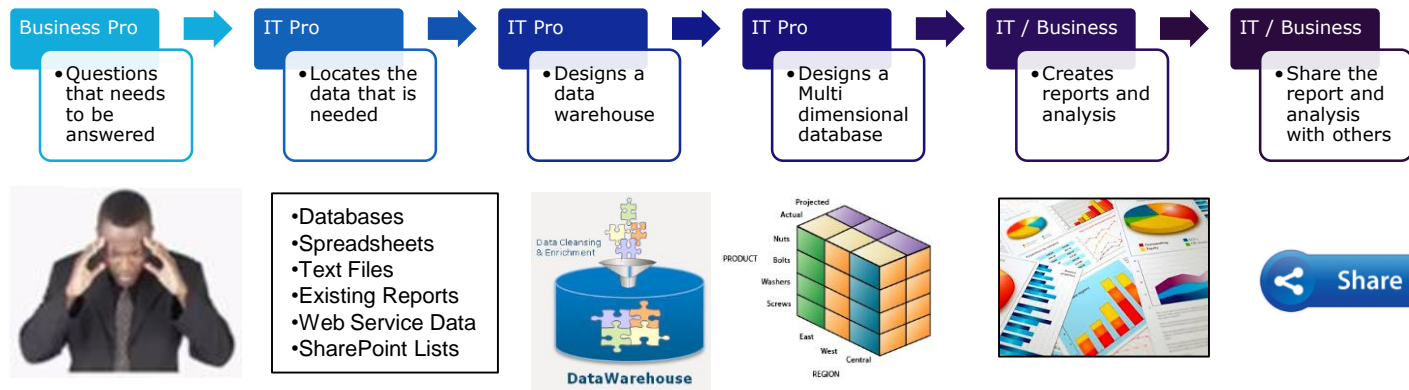
Road Map

- Pricing

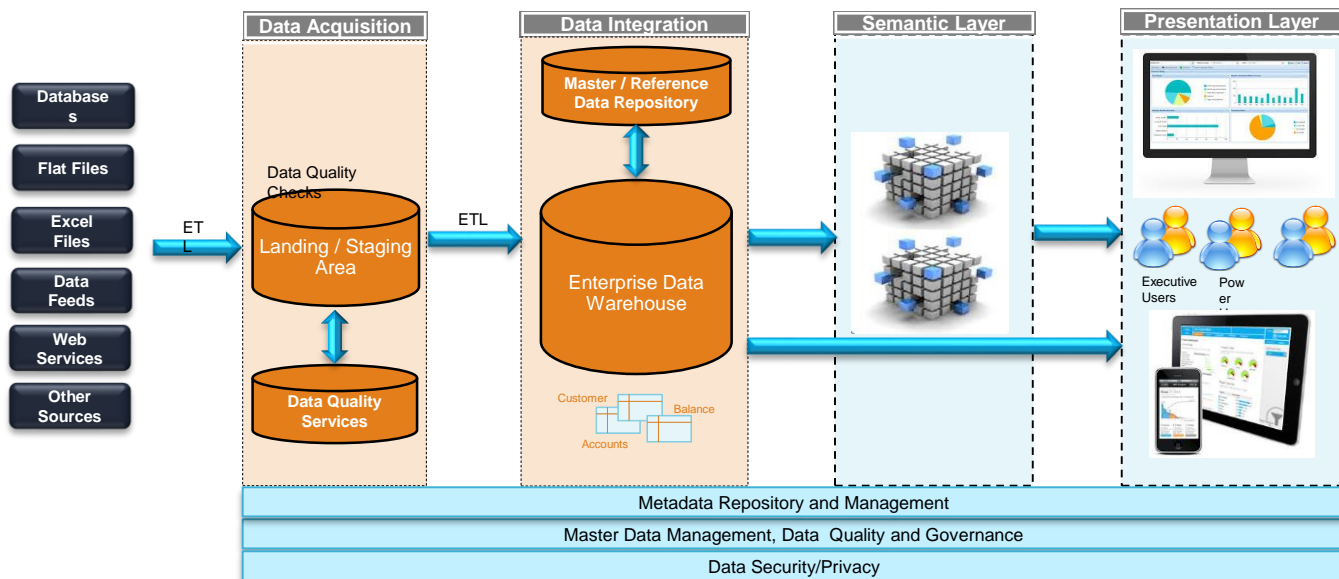
Traditional BI



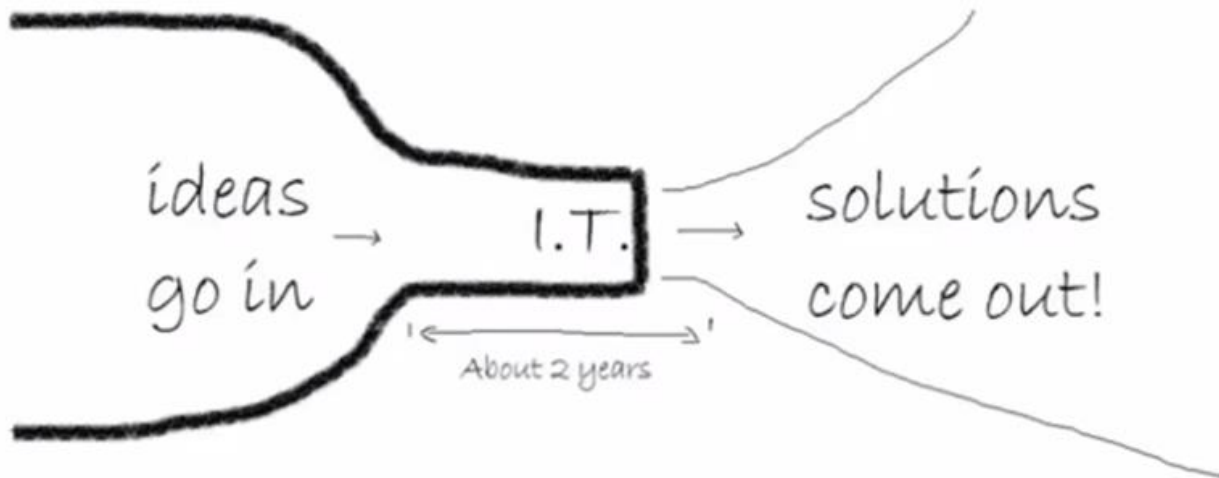
- First, let's have a basic understanding of what **Traditional BI** is all about



Traditional BI



Traditional BI Problem: IT Specialist Bottleneck



Power BI- Overview



Introduction to Power BI

Experience your data. Any data, any way, anywhere

- Power BI is a cloud-based business analytics service that enables
 - fast and easy access to your data
 - a live 360° view of your business
 - data discovery and exploration
 - insights from any device
 - collaboration across your organization
 - anyone to visualize and analyze data





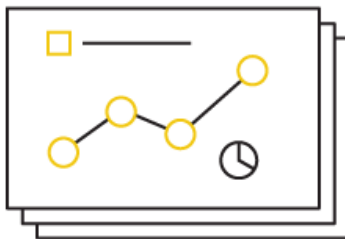
Power BI workflow



STEP 1

Get your data

Connect to data in Excel spreadsheets, your favorite services, and inside your organization. Power BI collects your data in one place, so you can stop searching for your data, and start exploring.



STEP 2

Craft data stories

Dive into your data and generate insights with simple drag-and-drop gestures. Save those insights as beautiful, interactive reports that reveal the stories hidden in your data.



STEP 3

Collect & share

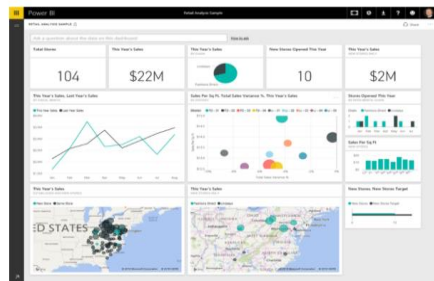
Create personalized dashboards and keep up on metrics that matter to you. Get a holistic view of all your data and empower your team to make quick, confident decisions.



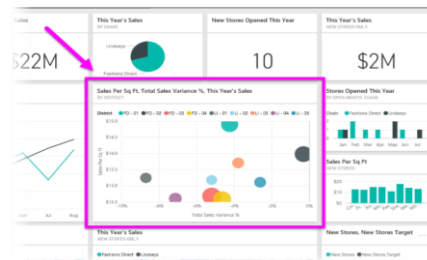
Building Blocks of Power BI

Year	Month	Month Name	Calendar Month	Quarter	Sales Per Sq Ft	Sales (Normalized)
2004	1	January	1/1/2004	1	94.7	2862
2004	2	February	2/1/2004	1	97.4	2923
2004	3	March	3/1/2004	1	100.9	3027
2004	4	April	4/1/2004	2	96.5	2896
2004	5	May	5/1/2004	2	97.6	2911
2004	6	June	6/1/2004	2	101.6	3047
2004	7	July	7/1/2004	3	96.2	2885
2004	8	August	8/1/2004	3	99.3	2980
2004	9	September	9/1/2004	3	107.3	3238
2004	10	October	10/1/2004	4	114.4	3433
2004	11	November	11/1/2004	4	112.2	3385
2004	12	December	12/1/2004	4	101.4	3042
2005	1	January	1/1/2005	1	94.2	2827
2005	2	February	2/1/2005	1	96.4	2892
2005	3	March	3/1/2005	1	97.5	2926
2005	4	April	4/1/2005	2	101.2	3037
2005	5	May	5/1/2005	2	104.2	3127
2005	6	June	6/1/2005	2	105.4	3163
2005	7	July	7/1/2005	3	100.6	3038
2005	8	August	8/1/2005	3	101.8	3054
2005	9	September	9/1/2005	3	114.6	3439

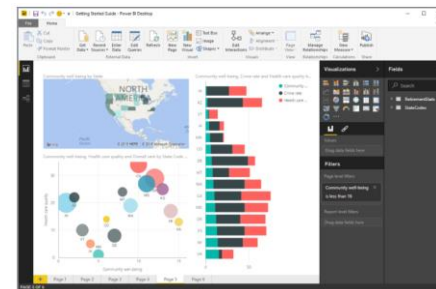
Dataset



Dashboard

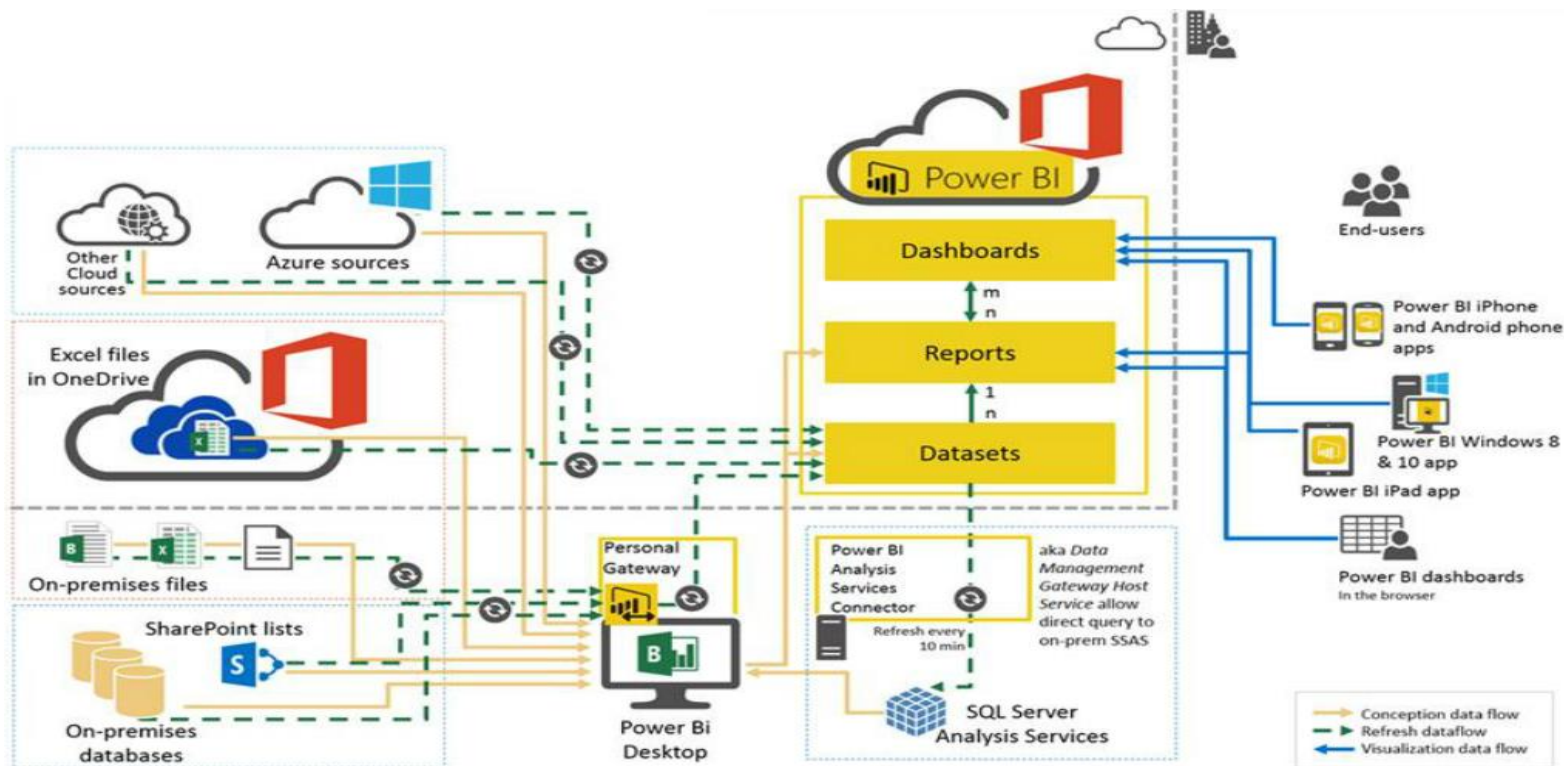


Tiles



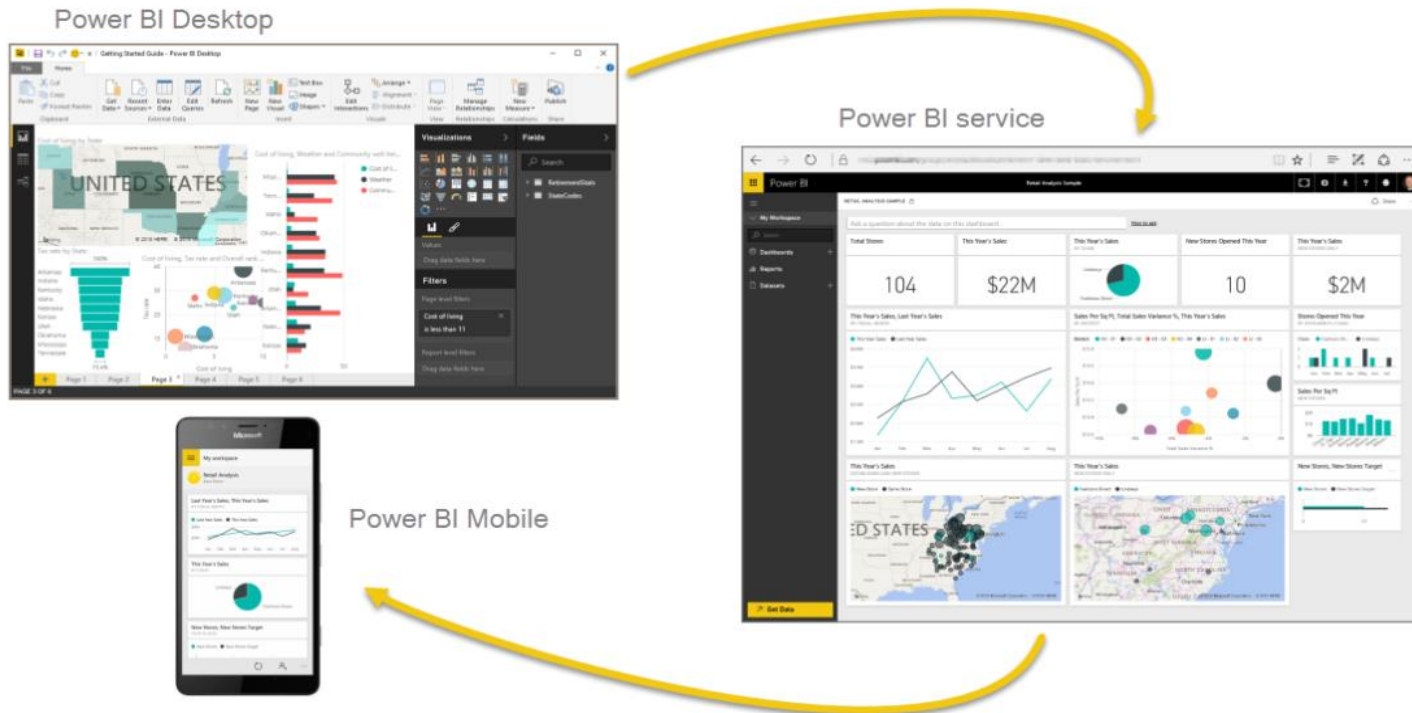
Reports

Power BI Architecture



Power BI components

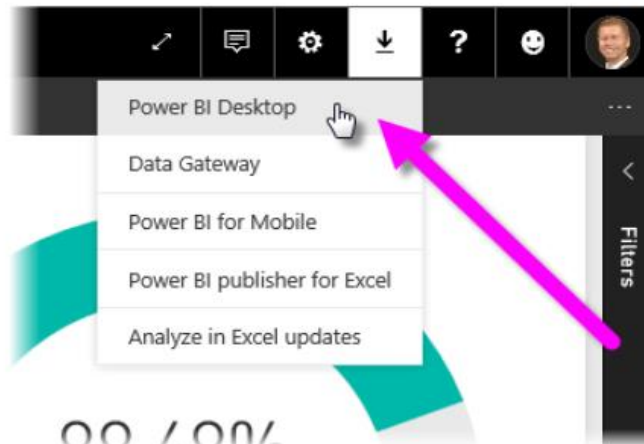
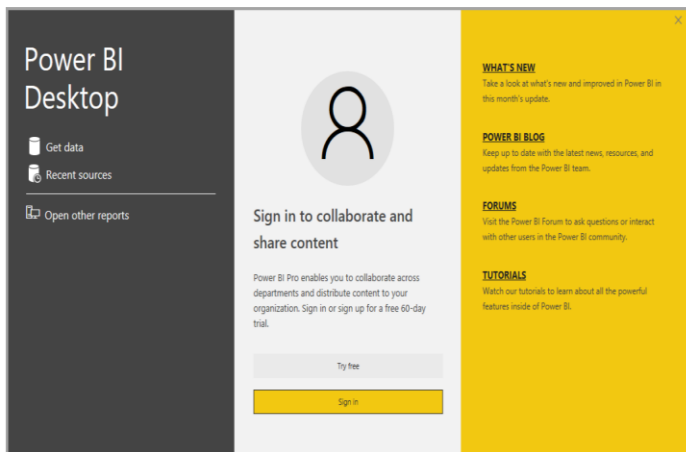
Components





Power BI - Desktop

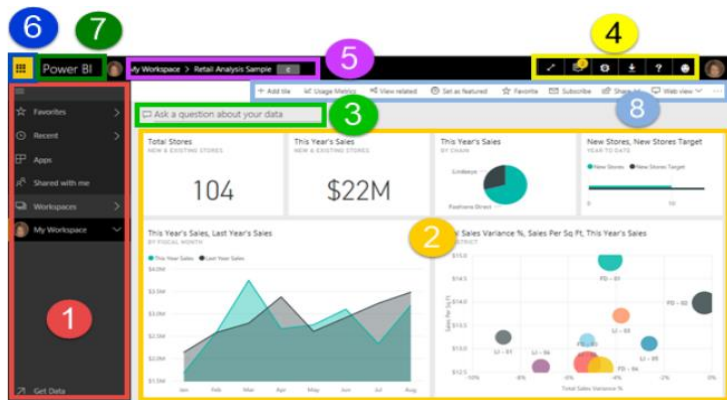
- **Power BI Desktop** lets you build advanced queries, models, and reports that visualize data.
- With Power BI Desktop, you can build data models, create reports, and share your work by publishing to the Power BI service.
- Power BI Desktop is a **free download**.





Power BI Service

- Power BI Desktop works cohesively with the **Power BI service** by providing advanced data exploration, shaping, modeling, and report creation with highly interactive visualizations. You can save your work to a file, and publish your data and reports right to your Power BI site to share with others.
- To use the Power BI service for free, you just need a **Web browser and email**.
- The Power BI service **<https://powerbi.com>** isn't available as a private, internal cloud service

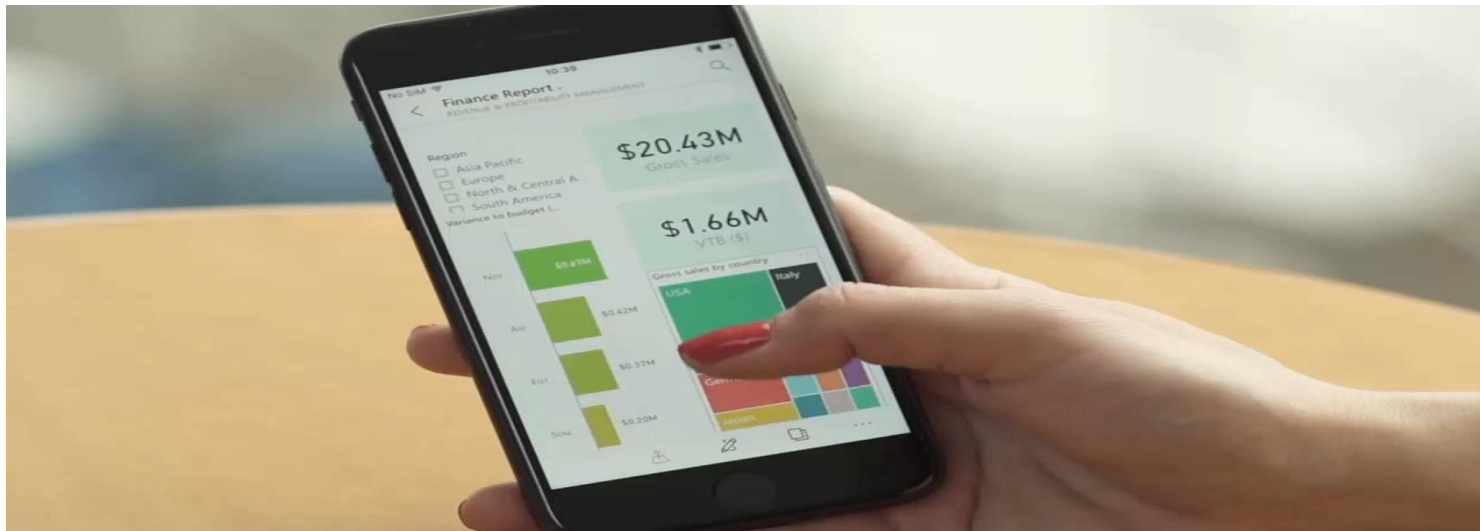


1. navigation pane (left nav)
2. canvas (in this case, dashboard with tiles)
3. Q&A question box
4. icon buttons, including help and feedback
5. dashboard title (navigation path, aka breadcrumbs)
6. Office 365 app launcher
7. Power BI home button
8. Labeled icon buttons



Power BI Mobile App

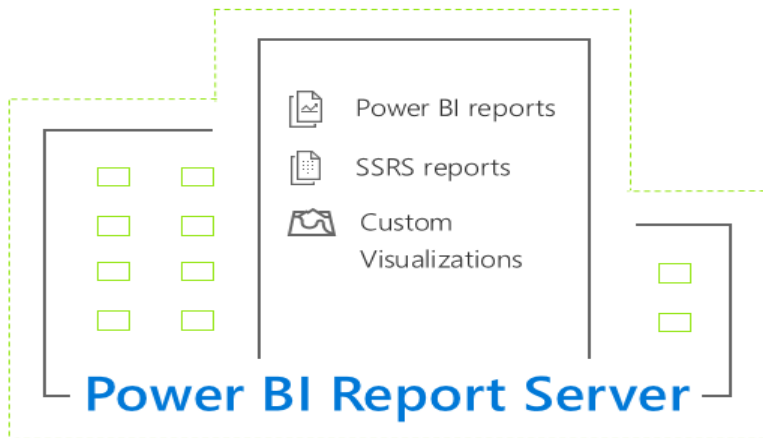
- You can connect to your on-premises and cloud data from the Power BI mobile apps
- **Power BI Mobile** apps give you a 360-degree view of your data—on the go.
- Available for **Windows, Android and iOS users (Mobile/Tablets).**





Power BI Report Server

- Power BI Report Server is an on-premises solution for reporting with the flexibility of moving to the cloud.



Keep Power BI reports on-premises



Compatible with SSRS



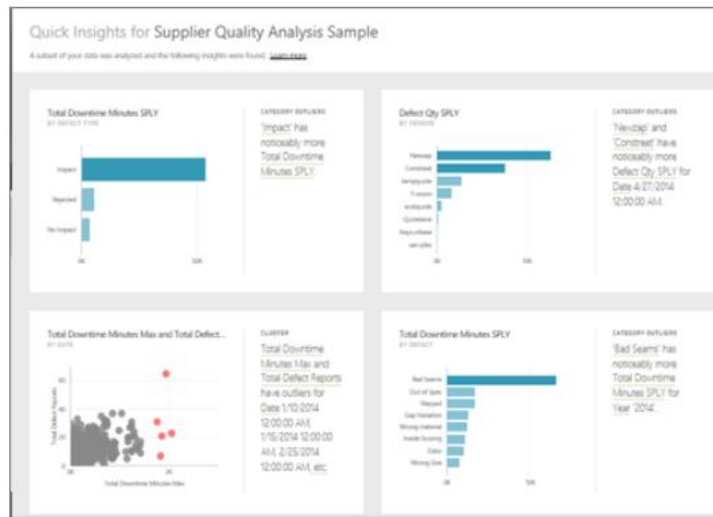
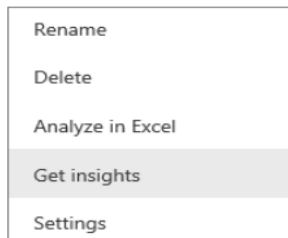
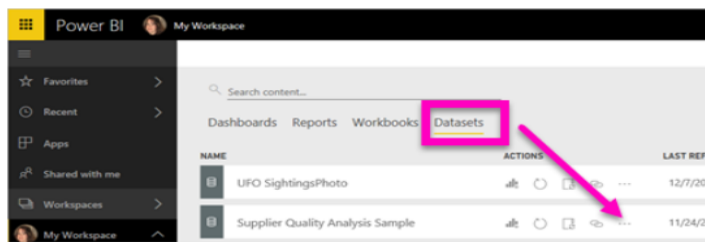
Move to the cloud on your terms

Power BI Features



Quick Insights

- You can run **Quick Insights** to generate interesting interactive visualizations based on your data.
- Quick insights can be run on an entire dataset (quick insights) or on a specific dashboard tile (scoped insights). You can even run insights on an insight!

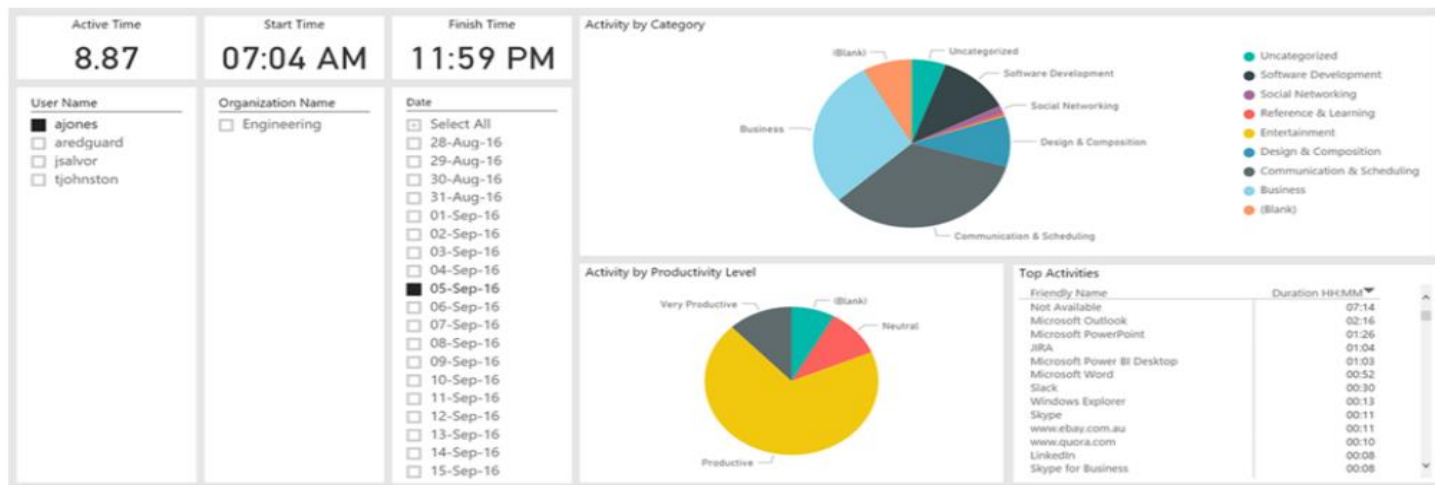




Data Exploration

How to Explore data to gain more insights? Here are few examples:

- Slice data by space and time.
- Group and Bin Data for Deeper Insights.
- Top N filter and Include/Exclude Data Points.
- Using Matrix

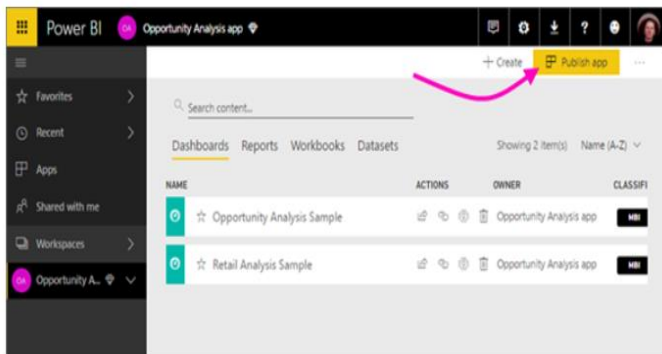




Collaborate and Share

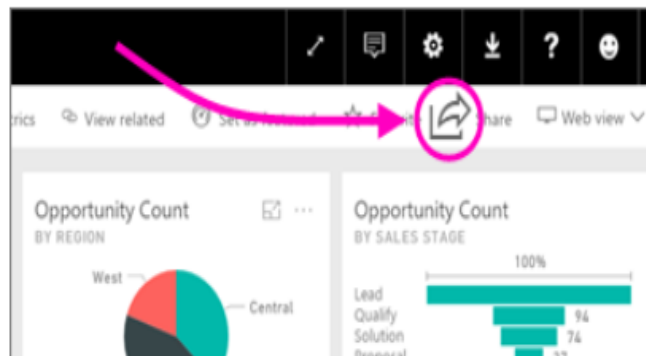
Collaborate(Power BI Apps)

- The best way to Publish your Power BI insights to your organization is to create an app.
- An app is a collection of dashboards and reports built to deliver key metrics for your organization.



Share

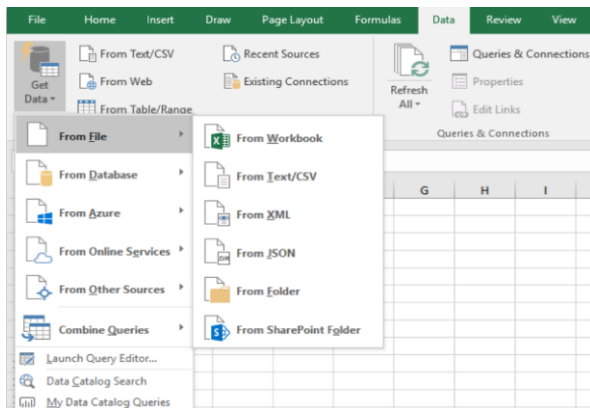
- You've finalized a dashboard and a report in your own My Workspace or in an app workspace and you want some other people to have access to it. One way to get it to them is to share it.
- Power BI Pro license is required to share and receive your content.
- The report/Dashboard shared can not be edited by the end user.



Ease Of Implementation



Power BI and Excel



◀ Scheduled refresh

Keep your data up to date



Refresh frequency

Daily

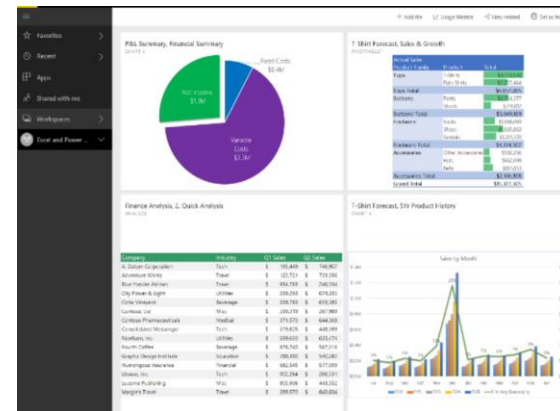
Time zone

(UTC-08:00) Pacific Time (US and Canada)

Time

7 30 AM

[Add another time](#)



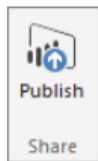
- All the queries, data models, and reports you create in Excel can transfer to a stunning interactive dashboard in Power BI.
- When using Schedule Data Refresh, your data sources configured in Power Pivot will be refreshed in the background. When you open your dashboard, the right data will be there—without requiring any action.
- By connecting your Excel workbooks to Power BI, you can display ranges of data, charts, tables, and more on a Power BI dashboard combined with data from other sources.



Publishing to Cloud Services

Publish from Power BI Desktop

- Publishing a Power BI Desktop file to the Power BI service, the data in the model and any reports created are published to your Power BI workspace.
- You'll see a new dataset with the same name, and any reports in your Workspace navigator.



Publishing to Power BI

✓ Success!

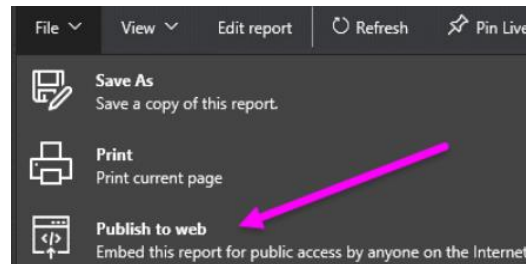
[Open Contoso Sales.pbix in Power BI](#)

Close

Cancel

Publish to web from Power BI

- With Power BI Publish to web, you can easily embed interactive Power BI visualizations online, such as in blog posts, websites, through emails or social media, on any device.



Success!

Link you can send in email

<https://app.powerbi.com/view?r=eyJrljoiMmNiMzU5OTItZGZwNS00NTYx>

Html you can paste into your blog or website

`<iframe width="800" height="600" src="https://app.powerbi.com/view?r=eyJrljoiMmNiMzU5OTItZGZwNS00NTYx"`

Size

800 x 600 px



Workbooks and sheets

- Workbook is a type of Dataset.
- When you upload a local Excel file or connect to one on OneDrive, Power BI adds it to the Workbooks tab of your workspace.
- You can't edit your workbook in Power BI. But if you need to make some changes, you can open it in Excel Online. Any changes you make are saved to the workbook on OneDrive.

The screenshot shows the Power BI 'My Workspace' interface. The left sidebar contains navigation options: 'Featured dashboard', 'Favorites', 'Recent', 'Shared with me', 'My Workspace' (selected), and 'Get Data'. The main area displays the 'Workbooks' tab, which is highlighted with a pink box. Above the list is a search bar and tabs for 'Dashboards', 'Reports', 'Workbooks', and 'Datasets'. The list shows three workbooks, all owned by 'Michele Hart':

NAME	ACTIONS	OWNER
Financial Sample	[Refresh] [Share] [Settings] [Delete]	Michele Hart
NewOlympicMedalistsDec12	[Refresh] [Download] [Edit] [Settings] [Delete]	Michele Hart
olympicDBwithAthletes	[Refresh] [Download] [Edit] [Settings] [Delete]	Michele Hart

Pricing



Pricing

Author	Share and collaborate	Scale large deployments
<p>Power BI Desktop</p> <p>Free</p> <p>DOWNLOAD FREE ></p> <hr/> <p>Connect to hundreds of data sources</p> <p>Clean and prepare data using visual tools</p> <p>Analyze and build stunning reports with custom visualizations</p> <p>Publish to the Power BI service</p> <p>Embed in public websites</p> <p>LEARN MORE ></p>	<p>Power BI Pro</p> <p>₹600.00</p> <p>per user per month</p> <p>TRY FREE ></p> <hr/> <p>Build dashboards that deliver a 360-degree, real-time view of the business</p> <p>Keep data up-to-date automatically, including on-premises sources</p> <p>Collaborate on shared data</p> <p>Audit and govern how data is accessed and used</p> <p>Package content and distribute to users with apps</p> <p>LEARN MORE ></p>	<p>Power BI Premium</p> <p>Capacity pricing</p> <p>per node per month</p> <p>PLAN YOUR COSTS ></p> <hr/> <p>Gain dedicated capacity you allocate, scale, and control</p> <p>Distribute and embed content without purchasing per-user licenses</p> <p>Publish reports on-premises with Power BI Report Server</p> <p>Unlock more capacity and higher limits for your Pro users</p> <p><small>Licensing information for Power BI Report Server and for embedding analytics with Power BI Premium.</small></p> <p>LEARN MORE ></p>

Thank You!

