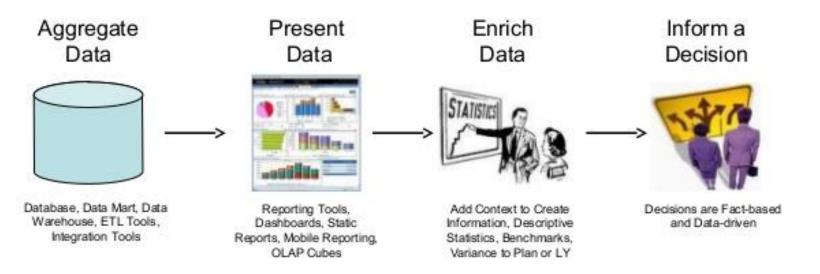
# BIG DATA ANALYSIS AND VISUALIZATION USING POWER BI AND TABLEAU

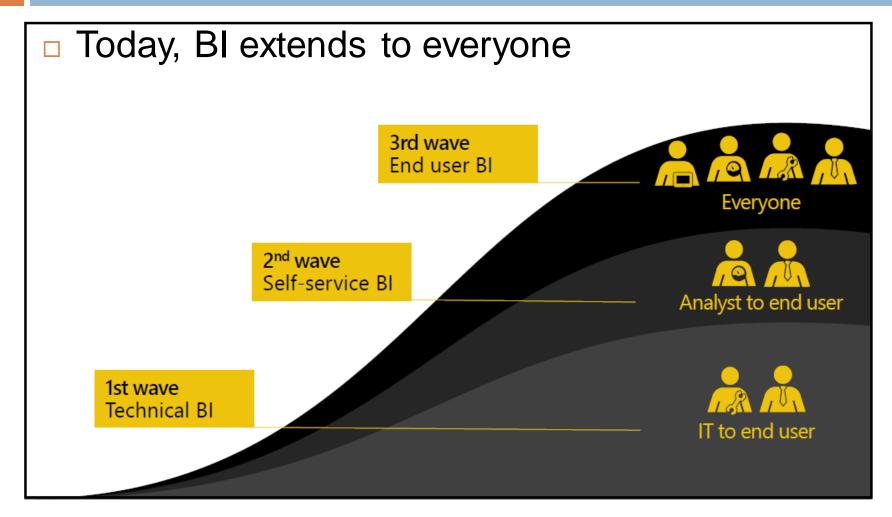
Introduction to Microsoft Power BI

# What is Business Intelligence?

Business Intelligence (BI) is a technology-driven method which helps you to analyze data and to provide actionable information which helps corporate executives, business managers, and other users to make informed business decisions.



### A New Generation of BI



# **Most Popular BI Tools**



Big Data Analysis and Visualization using Power BI and Tableau @ Peter Lo 2021

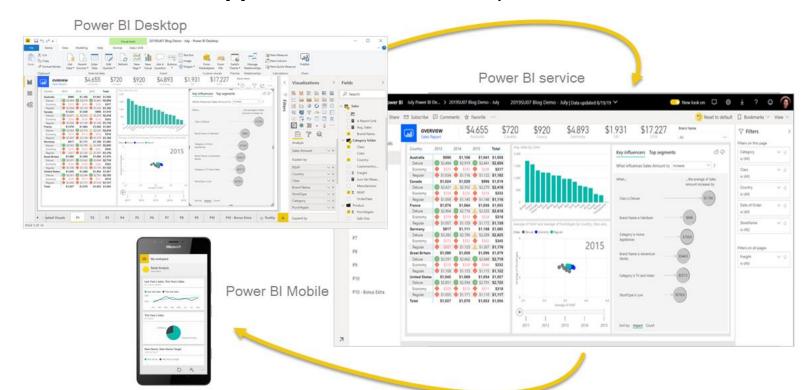
#### What is Microsoft Power BI?

Microsoft Power BI is a collection of software services, apps, and connectors that work together to turn your unrelated sources of data into coherent, visually immersive, and interactive insights.



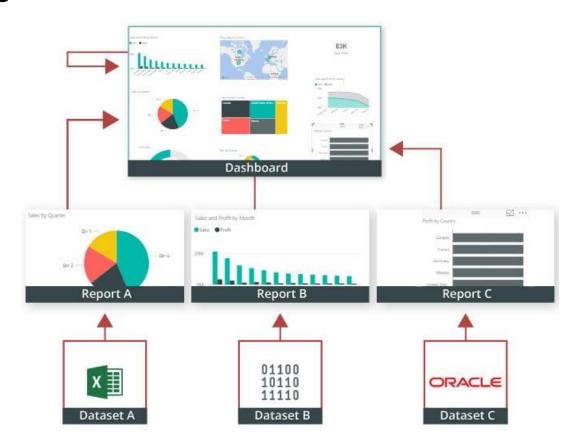
# **Power BI Component**

- Power BI consists of:
  - A desktop application called Power Bl Desktop
  - An online service called the Power BI Service
  - A Power BI Apps that are available on phones and tablets.



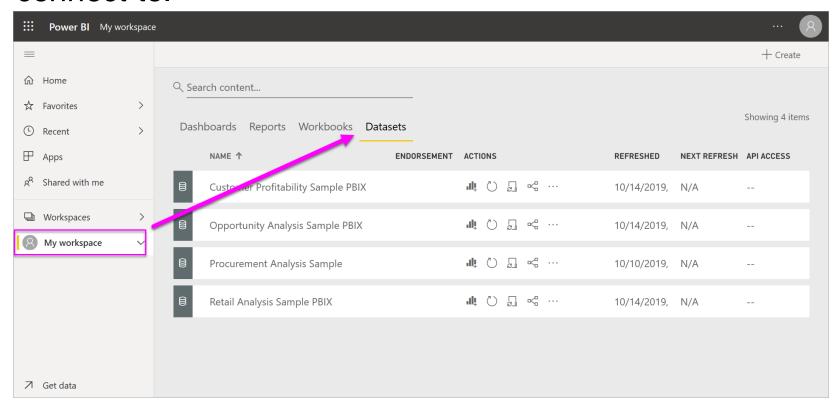
## **Power BI Concepts**

- The major building blocks of Power BI are:
  - Datasets
  - Reports
  - Dashboards



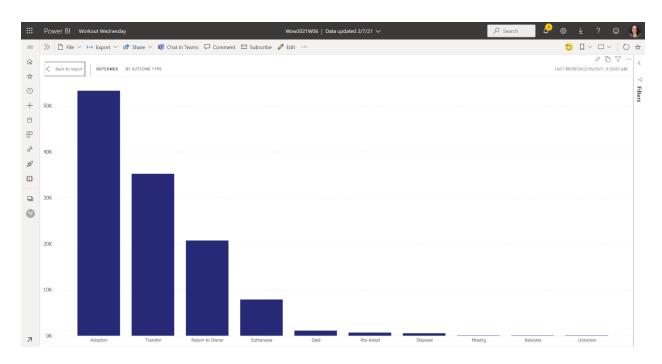
#### **Datasets**

 A dataset is a collection of data that you import or connect to.



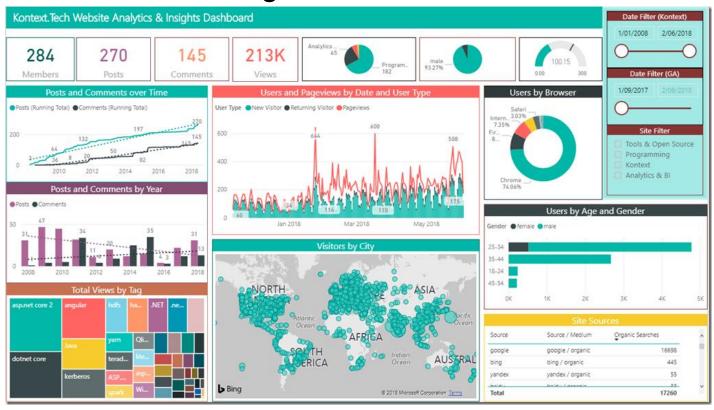
## Report

 Report is a multi-perspective view into a dataset, with visuals that represent different findings and insights from that dataset.

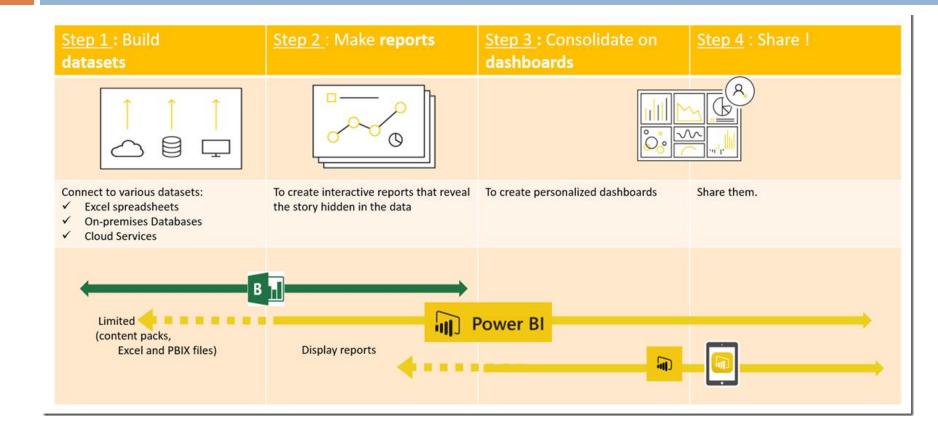


#### **Dashboards**

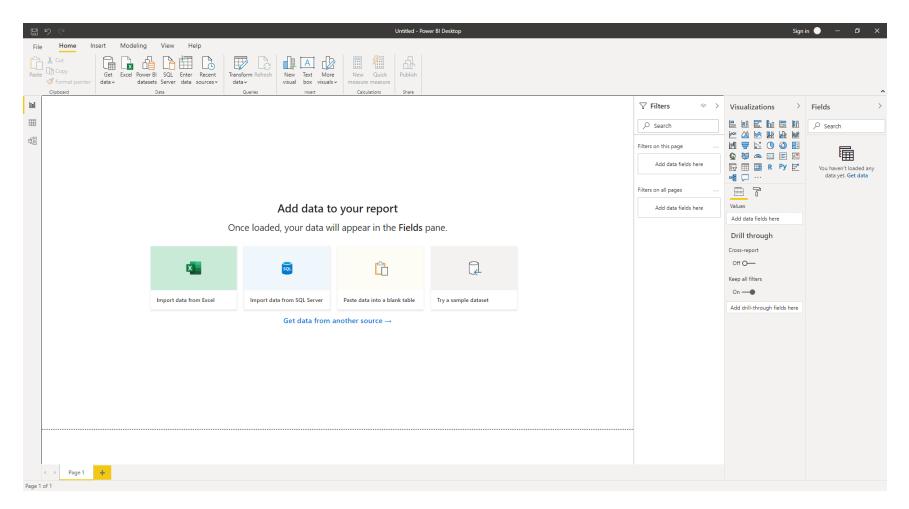
 A dashboard is a single canvas that contains zero or more tiles and widgets.



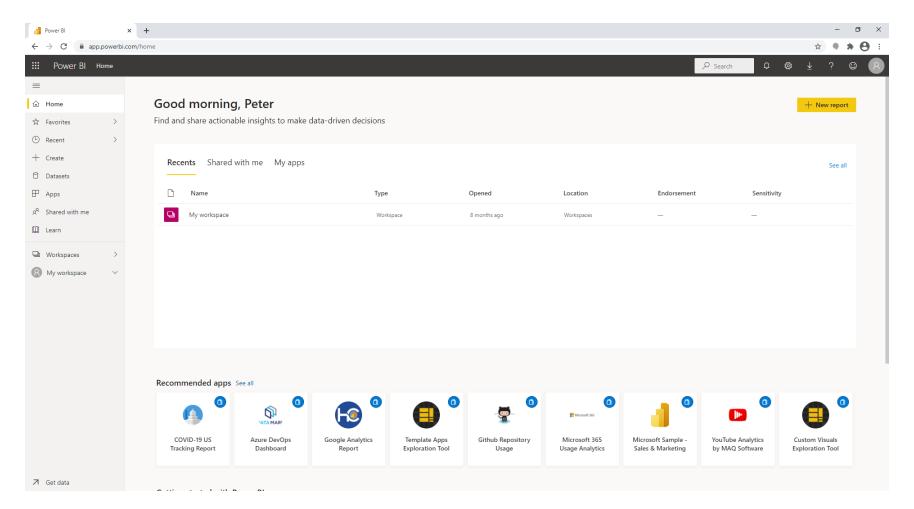
### Power BI vs. Excel



## **Power BI Desktop**

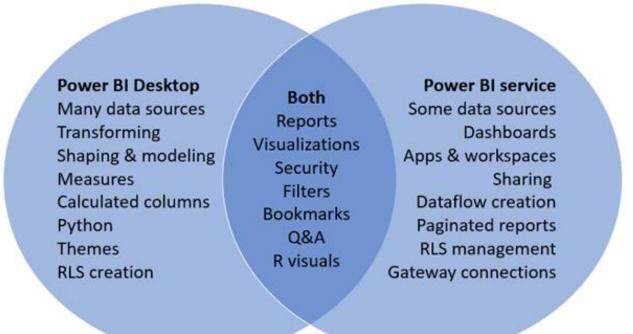


### **Power BI Service**

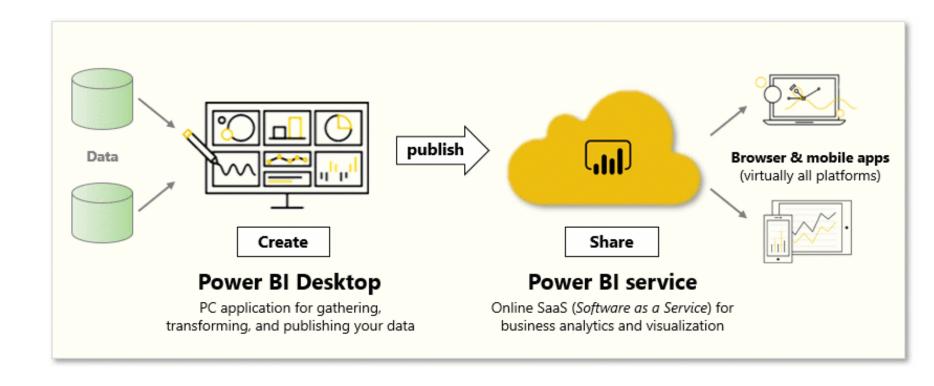


# Power BI Desktop vs. Power BI Services

Most users use Power BI Desktop to create Power BI reports, and then use the Power BI service to collaborate and distribute their reports.



## **Implementation Process**



## Implementation Process (Power BI Desktop)

