







You can't manage what you don't measure

- Peter Drucker





Table of Content What will We Learn Today?

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What is Business Intelligence







What is Business Intelligence?

BI (Business Intelligence) is a set of processes, architectures, and technologies that **convert raw data** into **meaningful information** that drives profitable business actions.

Business intelligence (BI) combines business analytics,
data mining, data visualization, data tools and infrastructure,
and best practices to help organizations to make more data-driven decisions.
(Tableau)







Why is BI important?

Business intelligence can help companies make smarter,

data-driven decisions:

- Identify ways to increase profit
- Analyze customer behavior
- Compare data with competitors
- Track performance
- Optimize operations
- Predict success
- Spot market trends
- Discover issues or problems









Key Players in BI

Professional Data Analyst

Dive into data and get insights

Head of the Company

As decision makers get an overall bird's eye view

IT Team

Maintain the infrastructure







Business Intelligence & Data Science







Business Intelligence

Data Science

- Analyze Data
- Do Data Visualization to gather insights
- Statistical Calculation







Business Intelligence

- Analyze with Retrospection
- Showing the current or past situation

Case of coming late to office

- Why we came late to office?
- Which street did we choose?
- What kind of transportation?

Data Science

- Predicting a condition
- Statistical Calculation

Case of coming late to office

- Showing options so we will not come late later
- Predict which street that will not stuck in traffic, which transportation to choose







Dashboard Constructing







Dashboard and Report

Dashboard: informasi yang disajikan menyeluruh dan dapat dilihat dari waktu ke waktu

- Penjualan, revenue, dan profit
- Performa seseorang menggunakan voucher
- Pengeluaran tim operasional

Report: spesifik informasi yang dibutuhkan dan dilihat secara periode mingguan, bulanan, atau tahunan

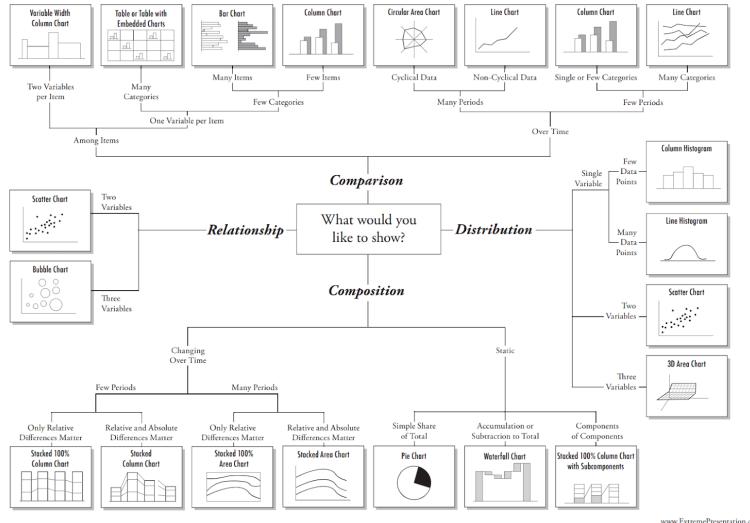
- Perbedaan penjualan setelah dilakukan kampanye oleh tim marketing
- Pertumbuhan kinerja bisnis model A dan bisnis model B dalam bulanan



Data Visualization recap...



Chart Suggestions—A Thought-Starter





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Dashboard Constructing

- **Be clear about what you're trying to achieve** your board's purpose will inform its design
- Only include what's important everything should support your board's intent
- Use size and position to show hierarchy make it clear to the viewer what's most important
- Give your numbers context help your viewers know if a number's good or bad
- Group your related metrics make your metrics easy to find
- Be consistent using the same visualizations and layouts makes comparing easier
- Use clear labels for your audience keep them short and self explanatory
- Round your numbers too much detail could make minor changes seem major
- **Keep evolving your dashboards** check that your dashboard is encouraging the right behavior









Be clear about what you're trying to achieve

What's the purpose of your dashboard?

Who's it for?

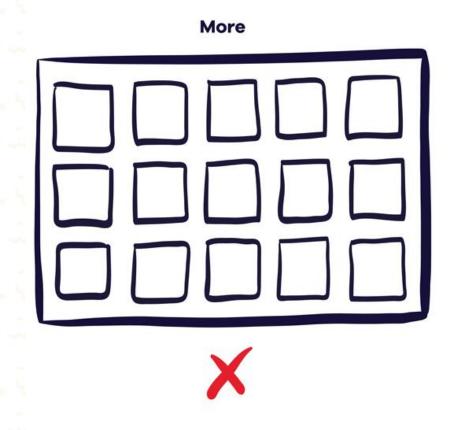
Focus on a specific goal?

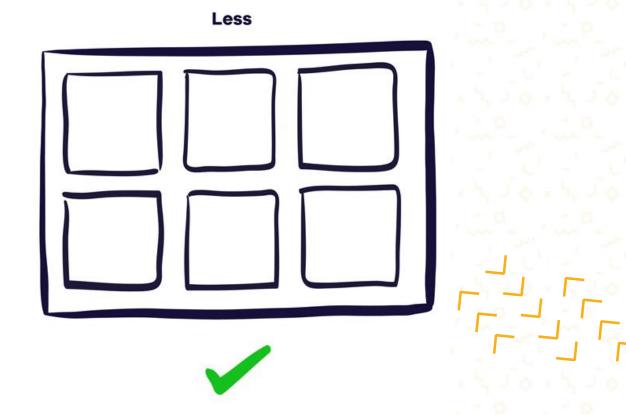
Make sure a particular type of problem gets noticed quicker?





Only include what's important

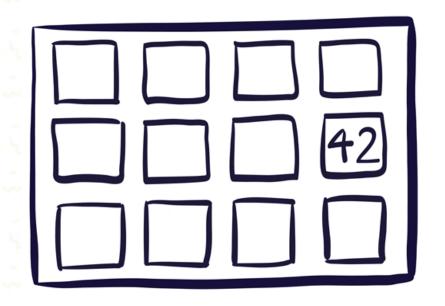


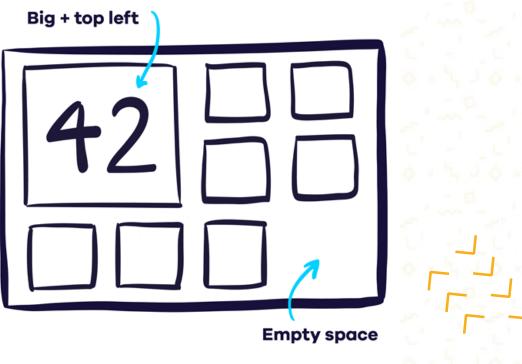




Use size and position to show

hierarchy





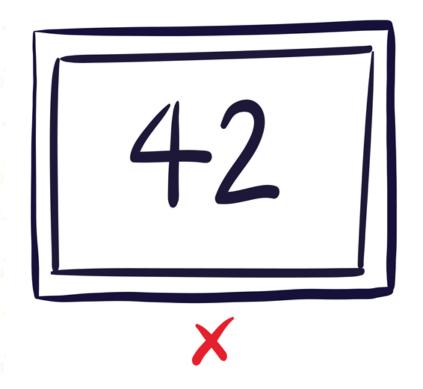








Give your numbers context



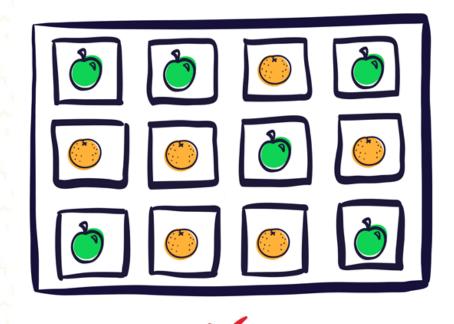


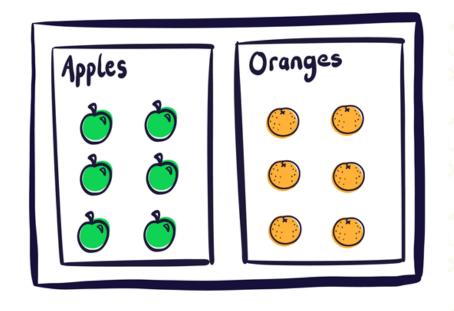






Group your related metrics









Source : Geckoboard





Be consistent











Round your numbers









Keep evolving your dashboards

Ask feedback to the team or stakeholder:

- What do they look at most often or find most useful, and why?
- What do they never look at or find least useful, and why?
- Is there anything missing that they'd find useful?
- Has it changed anything about the way they work?







BI Tools







- Business intelligence (BI) tools are types of application software which collect and process large amounts of unstructured data from internal and external systems
- These tools also help prepare data for analysis so that you can create reports, dashboards and data visualizations



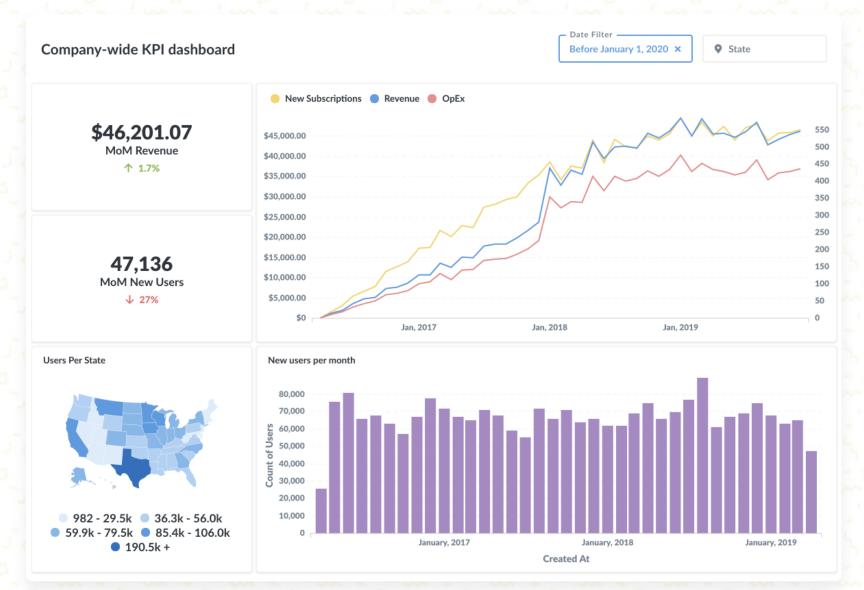






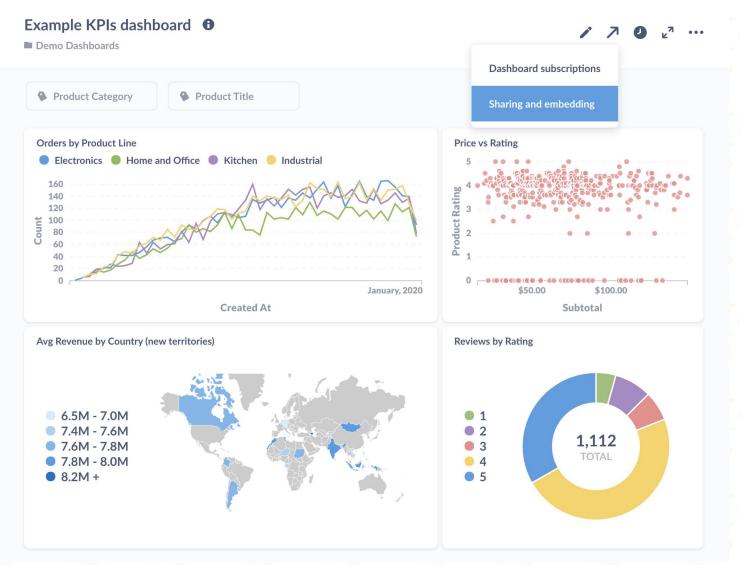
















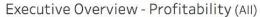


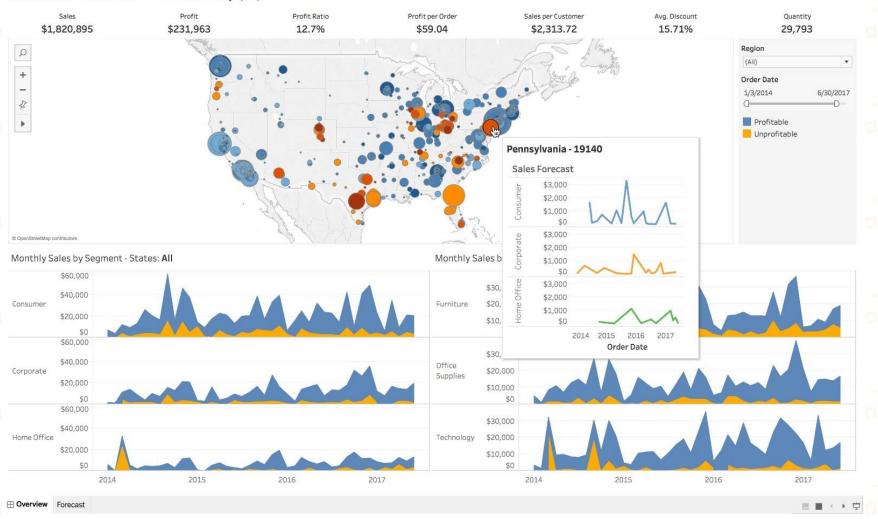






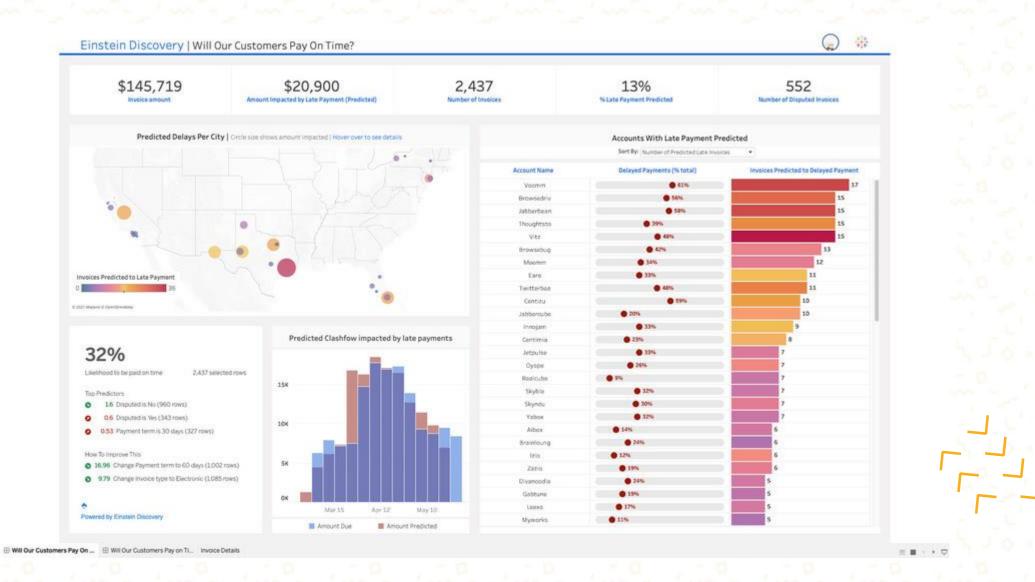














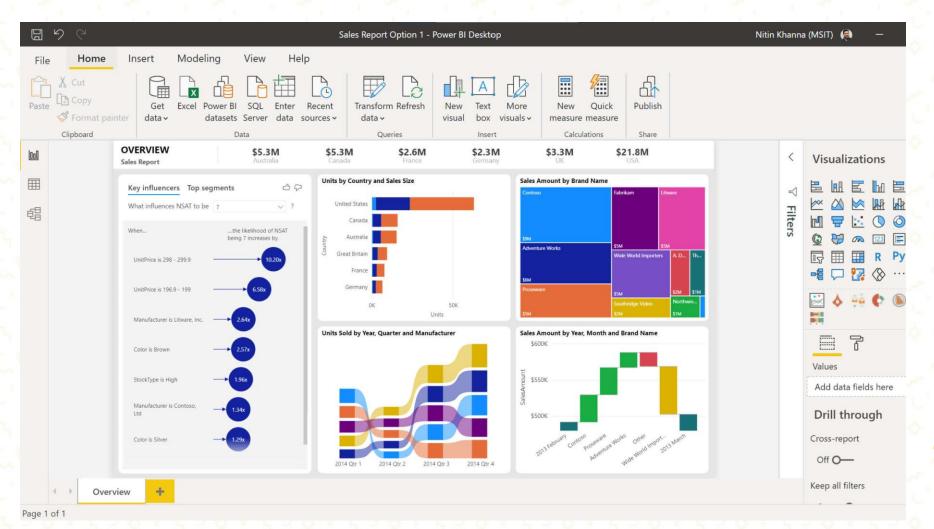






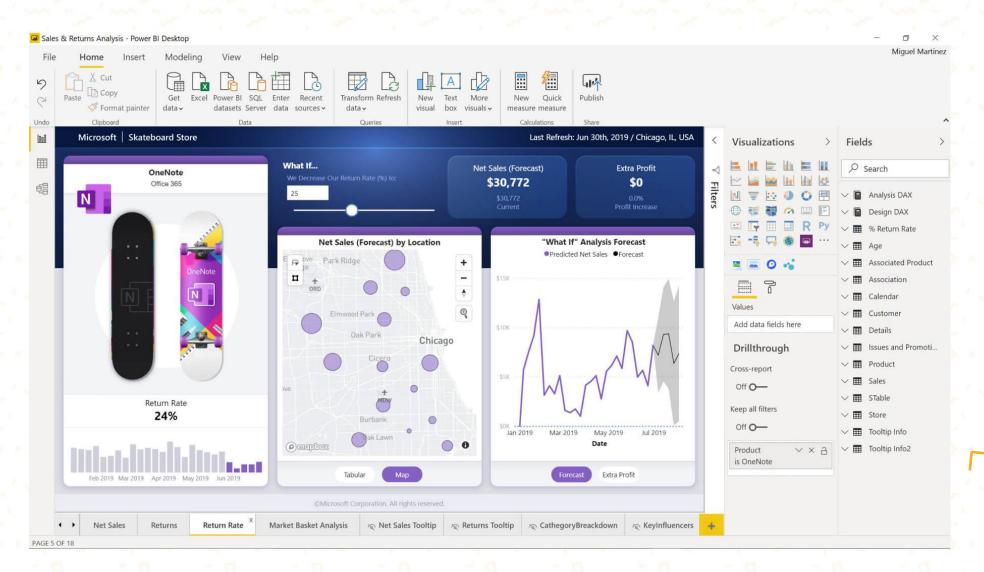














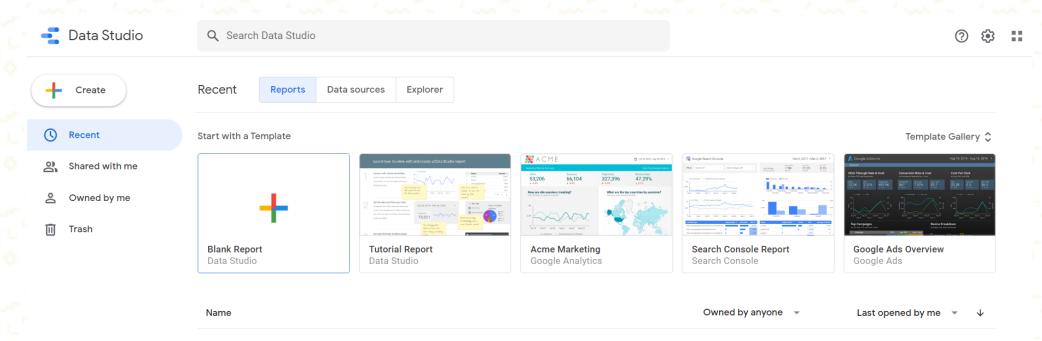




Google Data Studio









Create a Report

Use the Create button to add one.



Source: Google Data Studio

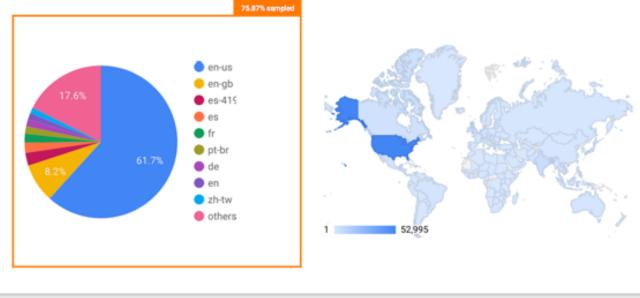














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Thank You

