

Step 1: Ask

- Comparing the trend of new cases before and after vaccination began in VietNam from 2020 to 2022

Use SMART

- Specific: Vietnam - 2020-1-1 => 2022-12-31
- Measurable: data from WHO
- Action-oriented:
 - + New cases per million
 - + Trend before vaccination, after vaccination
 - + Compare rate yearly

=> I want to know the trend of new cases before and after vaccination began

- + Có data => Vẽ graph
- + So sánh và đưa ra kết quả
- Relevant:
 - + How many cases per million
 - + After implementing vaccinations, how many people recovered
- Time-bound: 2020-1-1 => 2022-12-31
- Stakeholders: WHO, Ministry of Health

Step 2: Collect

- Github:
<https://github.com/owid/covid-19-data/blob/master/public/data/owid-covid-data.csv>
- Advantages: Easy to assess

Step 3: Prepare

- Filter the data: Vietnam + time + period (before or after vaccination)
- Find key dates:
 - + 8/3/2021: First implemented vaccination
 - + 1/7/2021: Publicly implemented vaccination
- Put the data into tableau and create a line chart for each period
- Filter: Vietnam + time + period

Step 4: Analyze & Share

Keypoints:

- Vietnam was not severely affected by COVID - 19 before vaccination

- However, after vaccination period, the cases and deaths increased drastically
- However, by publicly implemented vaccination at July 2021, the cases and deaths decrease significantly, recovered greatly since then

Step 5: Act

- By implementing the vaccinations, Vietnam has successfully recovered
- Vaccinations have proven effective in reducing the severity of COVID-19 cases and lowering mortality rates