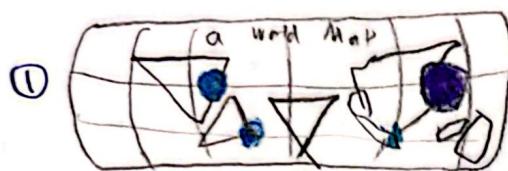
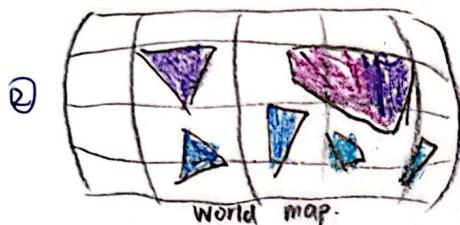


Idea

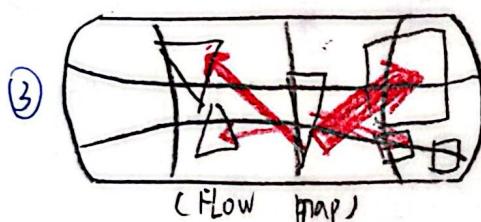
Malaysia Crude Oil Exports by Country



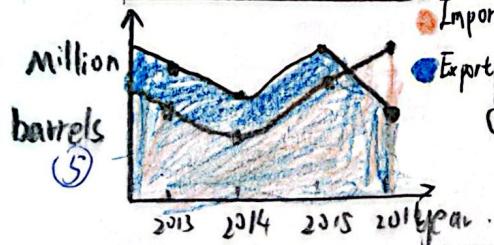
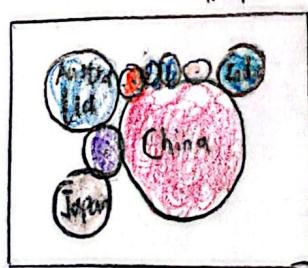
Malaysia Crude Oil Imports by Country



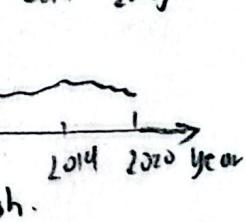
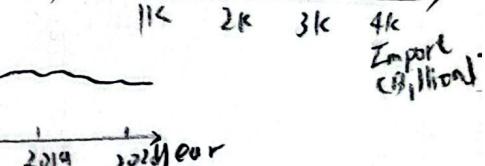
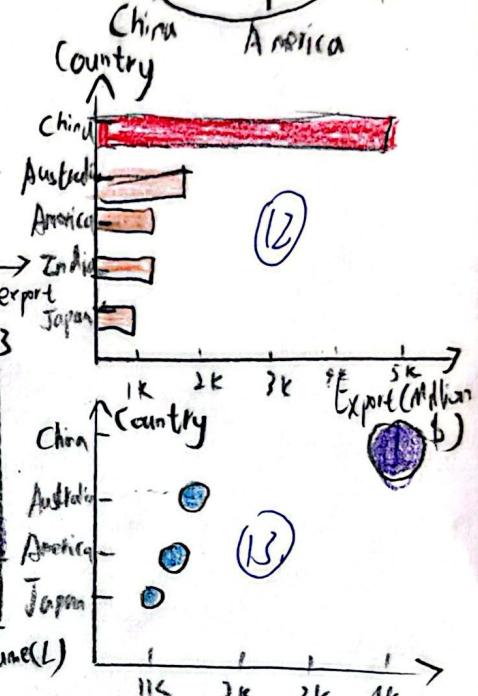
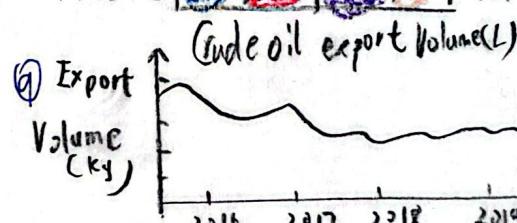
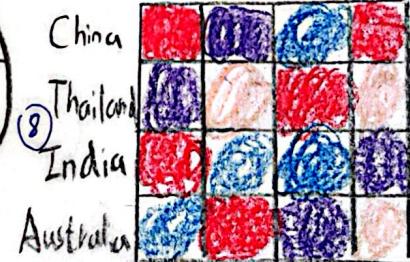
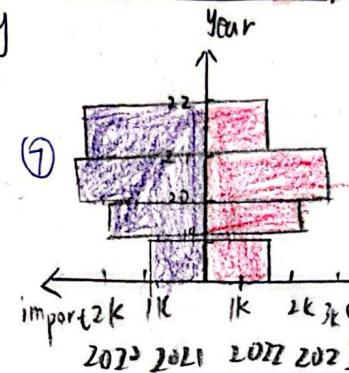
Malaysia Crude oil Exports



Export Country



Export Destination



Linked brush.

Combine & Refine:

Chart ⑨ and ⑩ can be combined together to a linked brush chart. ⑩ at the bottom, ⑨ at the top. ⑬ can be set as the filter for the chart ⑨, and will see more detail once it use filter.

Filter:

① ② ③ all used to show the trade country, we can just select one idiom to show. We know that the trade quantity is the absolute data we can not use the choropleth map ④, we can just select ① and ③, if use the absolute data

Categorise
Compare across country

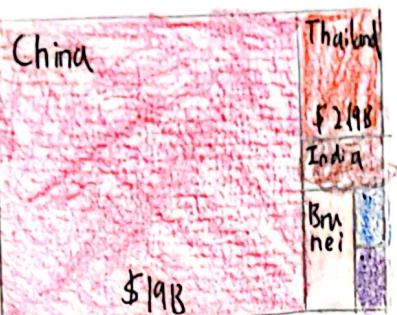
- ↓
- Trend over time
 - recent 10 years
- ↓
- Correlations
 - production vs
- Exports volume

Summarise and Ask questions
① Is it able to use Vega-lite to generate the flow map?

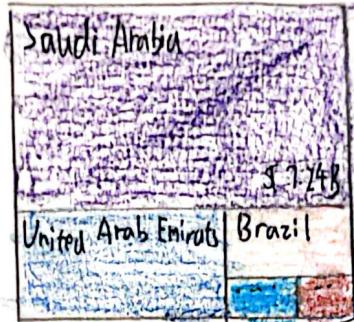
② How to find more aspect to see the export volume? Just compared with production?

Layout

Crude Oil Export and Import destination

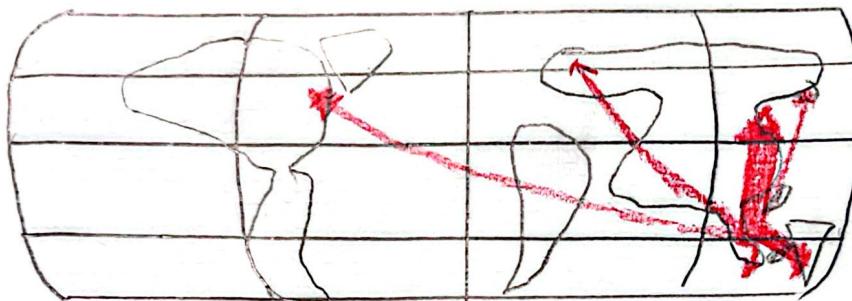


Export destination

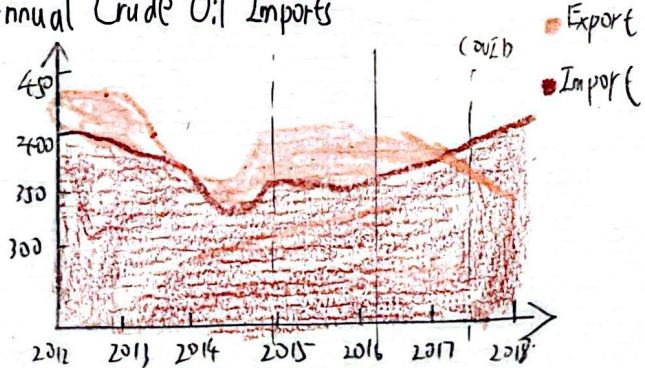


Import destination

Import Partners (flowmap)



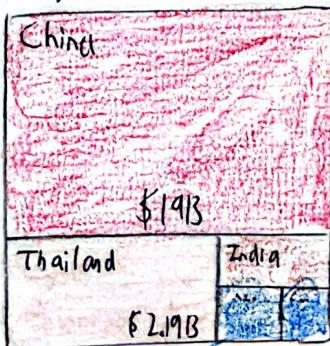
Annual Crude Oil Imports



Trend Observations

Reason for the Crude Oil Trade Deficit:

Focus / Parti



This version of plan will mainly focus on the impact on different Import and Export structure of by country. Use the tree map here got many advantage, It is great to share of total, space filling rectangles make relative proportions (who's big vs small) immediately visible. We can easily see that China is the biggest export destination,

Sheet 2

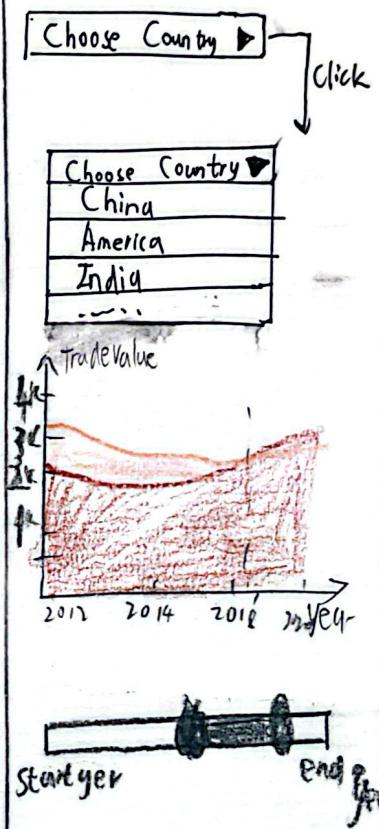
Name: Song Yifan

Date: 15/10/2025

Title: Malaysia Crude Oil Exports & Imports.

Description: This version will mainly focus on the Export and Import Structure.

Operation



Pro & Cons

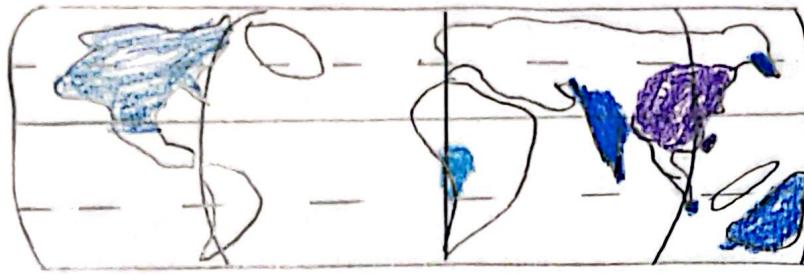
Pro:

This version use the treemap and the Flow map, the difficulty for the idiom will increase. Will may get more mark and the export destination of petroleum have also become clear.

Cons:

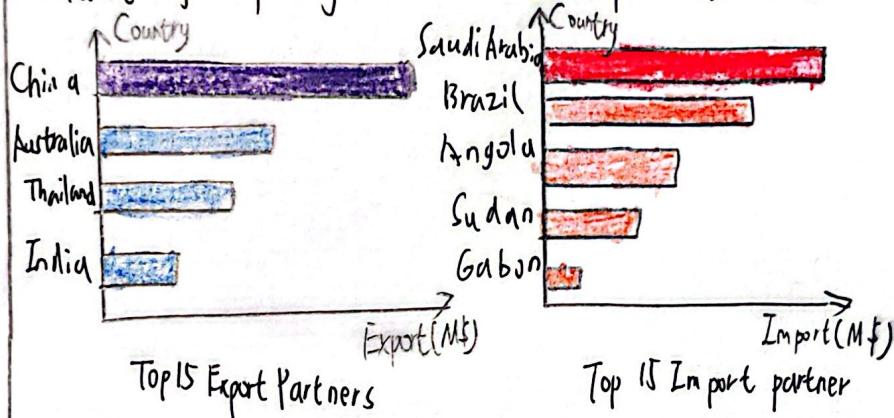
It is seems like very difficult to do use vegalite to do the flow map.

Export Partners (choropleth map)

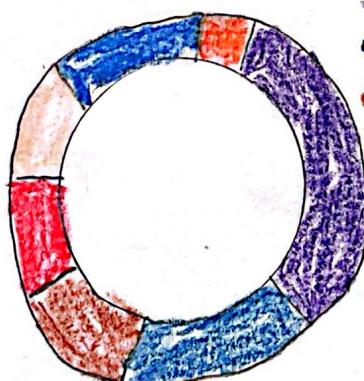


1M\$ / 1k people 10M\$ / 1k people

Structure of Importing Countries and Export destinations

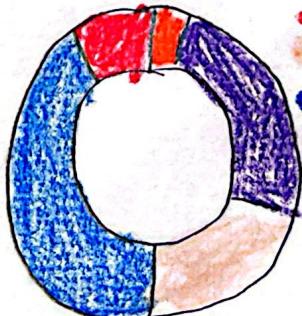


Refining Output structure of Malaysia's Crude Oil



- Petrol
 - Diesel
 - ATF& AVGAS
 - LPG
 - Fueloil
 - RefinerGas
 - Kerosene
- key insights:
- Transport-focused
 - Air aviation demand
 - Limited heavy end

Focus/parti



- Petrol
 - Diesel
 - ATF& AVGAS
 - LPG
 - Fueloil
- This version of visualization have the new section = Refining Output structure of Malaysia's Crude Oil. The donut chart clearly shows the composition of Malaysia's refinery output. It highlights that petrol and Diesel occupy the largest share, while products like kerosene and Refiner Gas contribute minimally. The chart also allows easy comparison of proportion and provides a clean center space for labeling total output.

Sheet 3

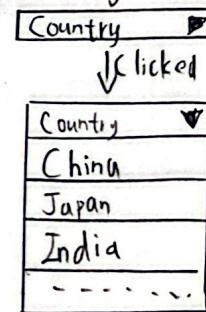
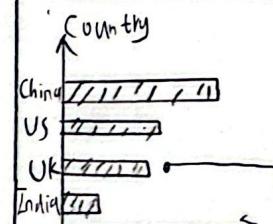
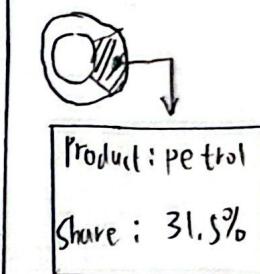
Name: Song Yifan

Date : 16/10/2025

Title: Malaysia Crude Oil Exports & Imports

Description: This version will try to do the map use the choropleth map

Operation:



Pro & Cons:

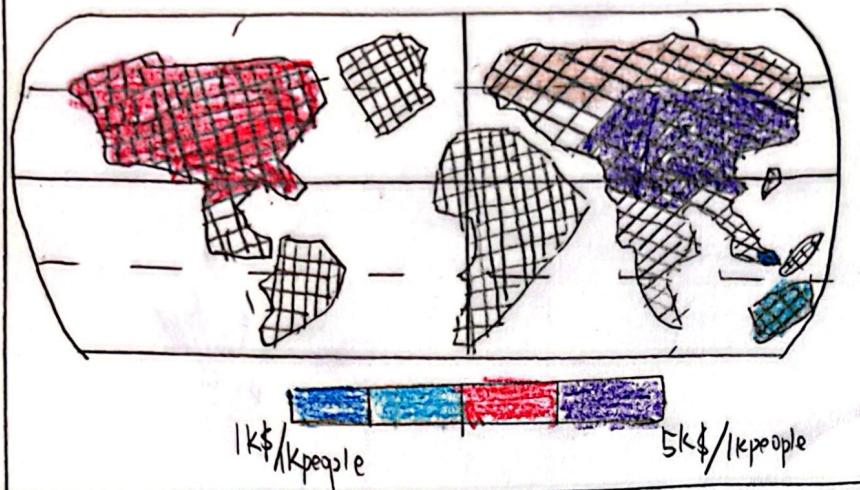
Pro: This version add the new section and idiom to analyze the refining output structure of Malaysia's Crude Oil.

Cons:

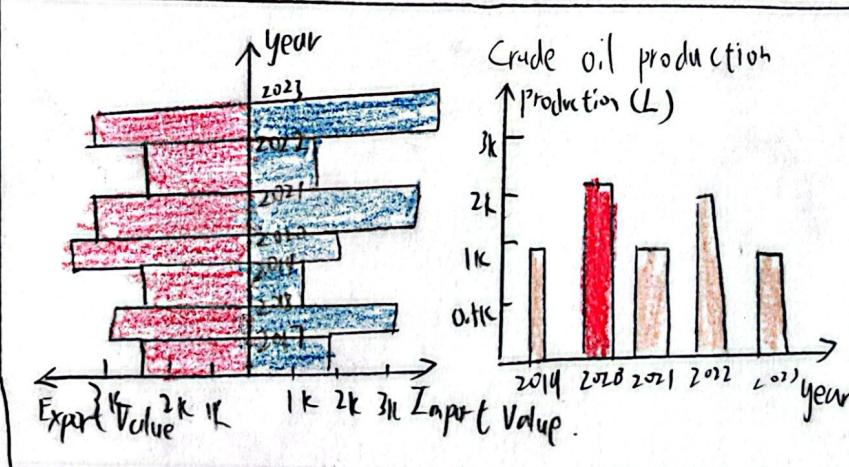
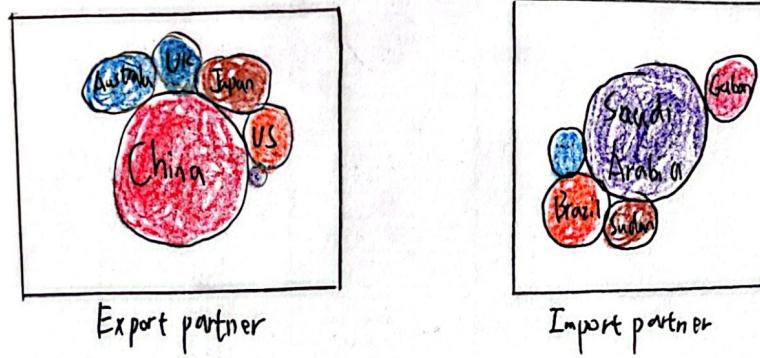
This version lack of Interactivity, lack of selectors make it difficult to reflect changes over time.

Layout

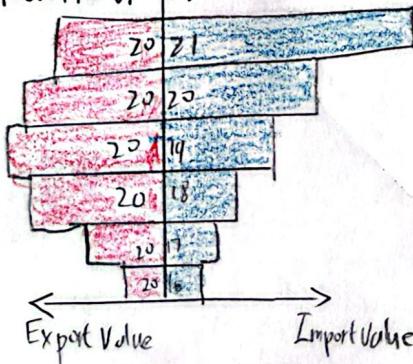
Export Partners (Bin map)



Structure of Importing Countries and Export destination



Focus/Parti ↑ year



This version we will mainly focus on the pyramid chart. A pyramid chart clearly compares imports and exports across years showing both magnitude and direction in a single view. It highlights changes over time, reveals trade balance trends, and makes it easy to see which side dominante in each year.

Sheet 4

Name: Song Yifan

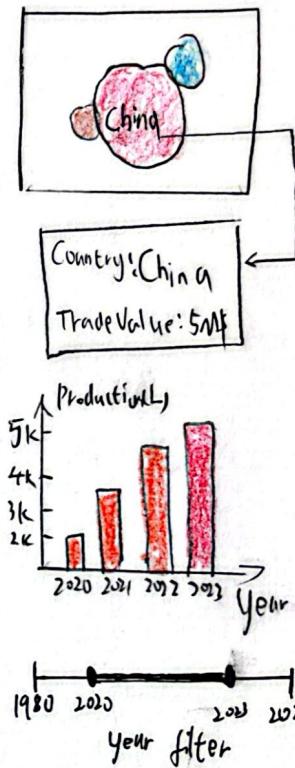
Date: 16/10/2025

Title: Malaysia Crude Oil

Description:

This Version will use the binmap to do the map idiom

Operation:



Pro & Cons

Pro:
Use the bubble chart is very clear to see which country export or import most crude oil.

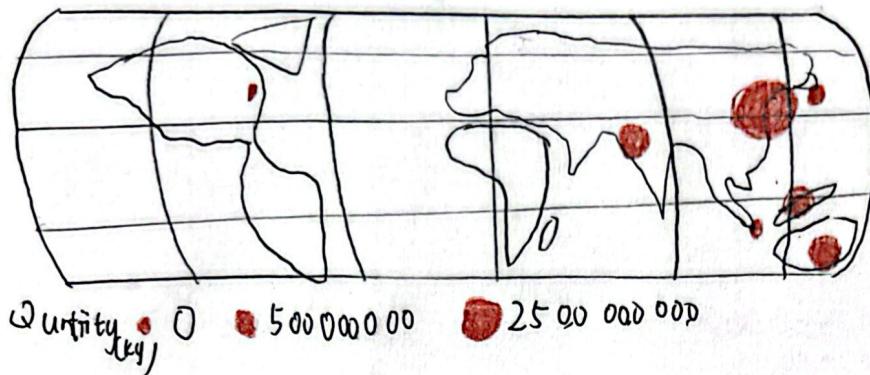
Cons:

It is very hard to use bin map to do it, don't know how to set the bin map use regu lite.

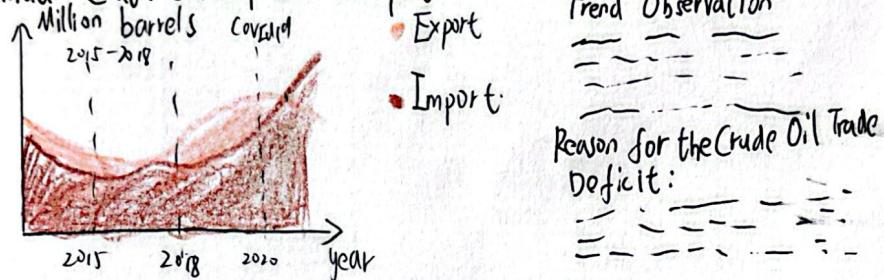
Lay Out

Malaysia Crude Oil : Exports & Imports

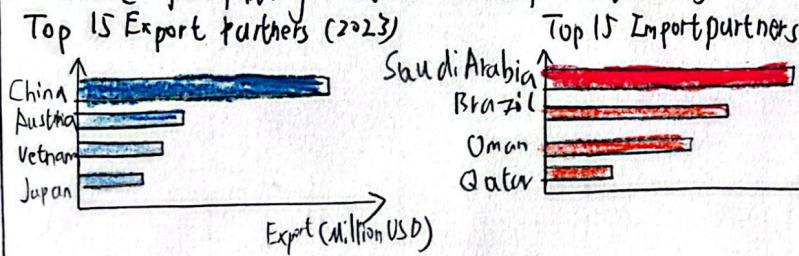
Export Partners — Geography (2023)



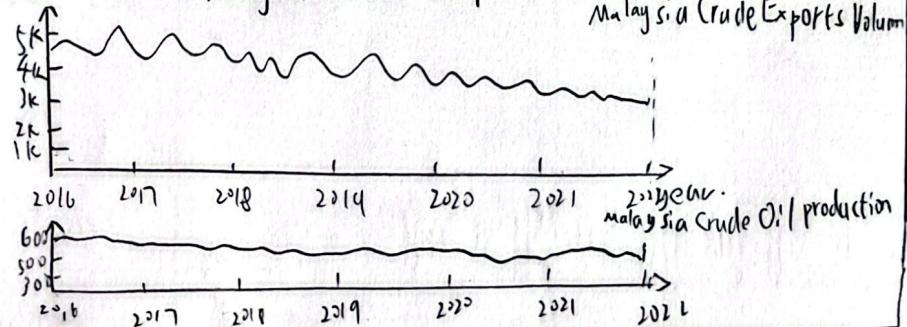
Annual Crude Oil Imports and Exports



Structure of Importing Countries and Export destinations:



Relation Between Malaysia's Crude Oil production and Exports



Focus / Part 1:

First section should focus on the geography export partner; second section focus on the crude oil trade deficit; third section focus on the structure of import and export destination.

Detail:

To complete this visualization, it should use the proportional symbol map, use the absolute data. The world map's map projection we need to use equal earth. For the world map, we need to add the blue ocean background.

sheet 5

Name: Song Yifan

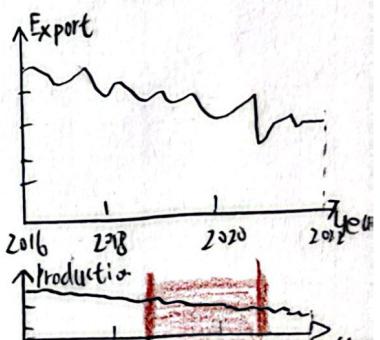
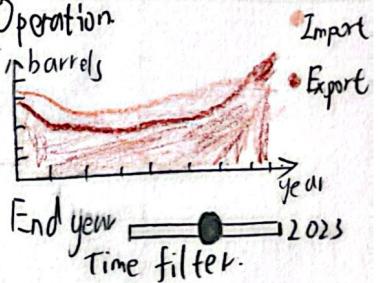
Title: Malaysia Crude Oil : Exports & Imports

Description:

This is the final version will separate into 5 parts

- ① Exports Partners
- ② Annual Crude Oil Import and Export
- ③ Structure of Importing Countries and Export destination
- ④ Relation between Malaysia Crude Oil Production and Export
- ⑤ Refining Output Structure of Malaysia Crude Oil

Operation



The lower chart functions as an interactive filter for the upper chart.

