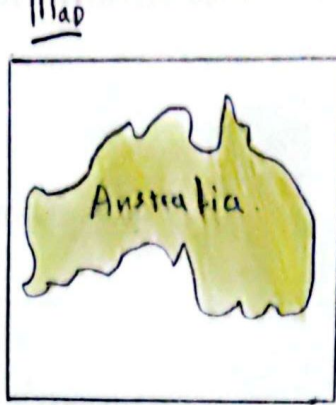
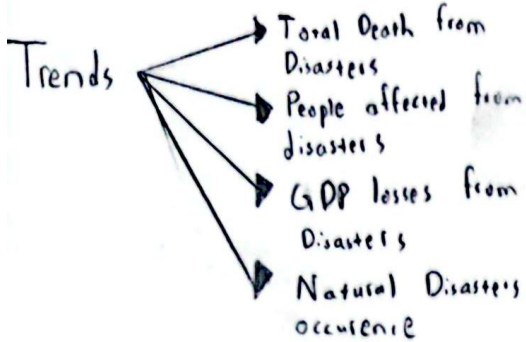
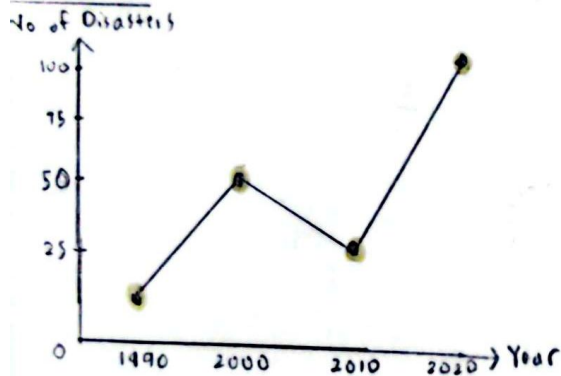


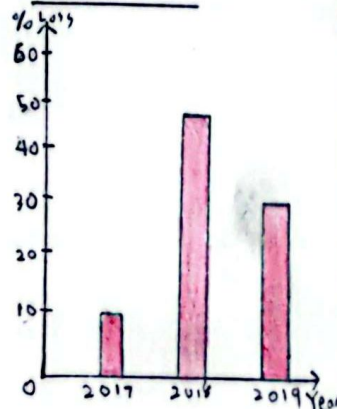
# IDEAS



## Occurrence

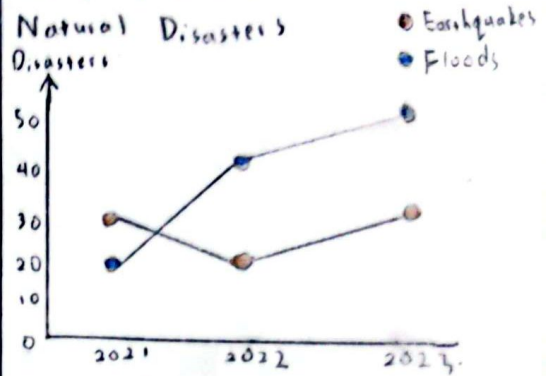


## GDP Losses



# FILTER

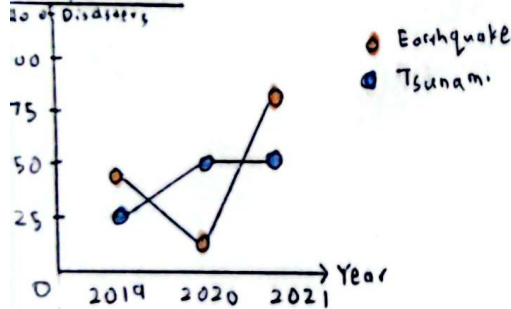
## Comparison for Different



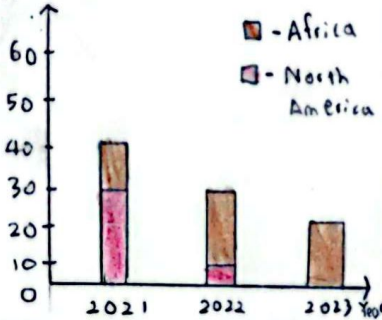
## Map of Australia



## Comparison



## GDP Losses



# CATEGORIZE

**Natural Disaster occurrence**

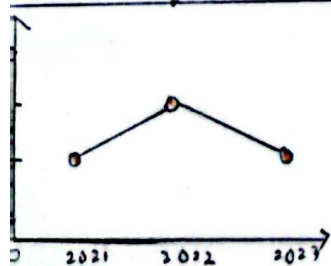
- Floods
- Earthquakes
- Tsunami

**GDP Losses %**

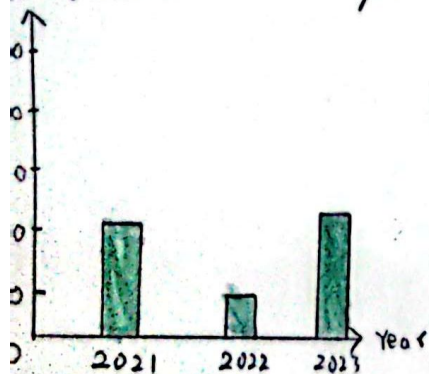
Aftereffect of Natural Disasters

# COMBINE & REFINE

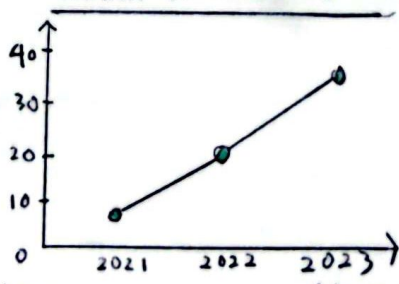
## No. of Earthquakes occurrence



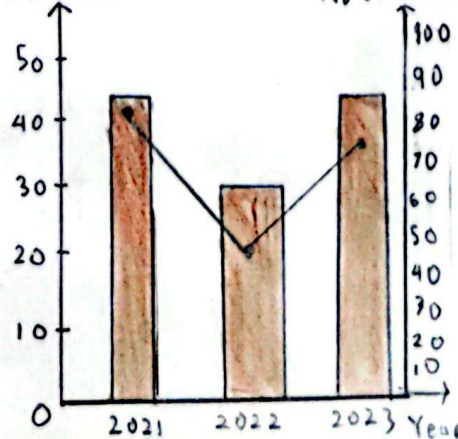
## GDP % Losses



## Number of Tsunami occurrence



## % GDP Losses

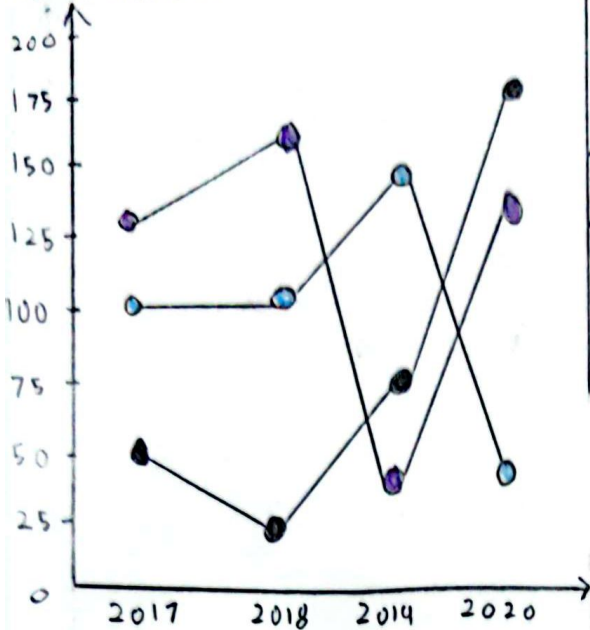


# QUESTIONS

1. Do we need more natural disasters
2. Compare countries or continents
3. Are there other charts able to visualize GDP Losses?

# LAYOUT

No. of Occurrence



Natural Disasters Type

Droughts ☒  
Floods ☐  
Earthquakes ☒

Legend  
1900 2022  
Droughts  
Floods  
Earthquakes

Title : FIT3179 Assignment 2

Author : Tang Zhong Weng

Date : 12 / 10 / 2024

Sheet : 2

Task : Natural Disaster's Damages

## OPERATIONS

- 1) Slider to filter range of years
- 2) Each colour represents each natural disasters
- 3) Tick to view selected natural Disasters Type

## Discussions

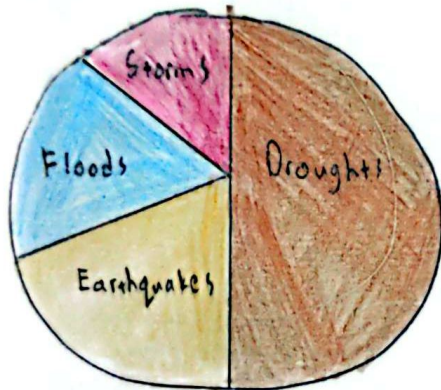
### Advantages

- Easy to compare multiple natural disasters with 1 visualisations

- Compare it over time

### Disadvantages

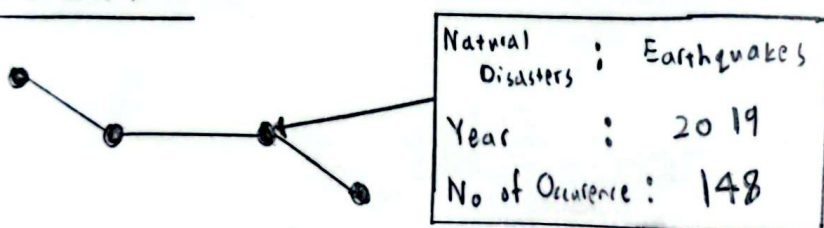
- The visualisations become more difficult to read as more natural types included in the charts with more lines and colours
- Pie charts unable to view natural disasters with very low number of occurrence.



Droughts  
Storms  
Floods  
Earthquakes

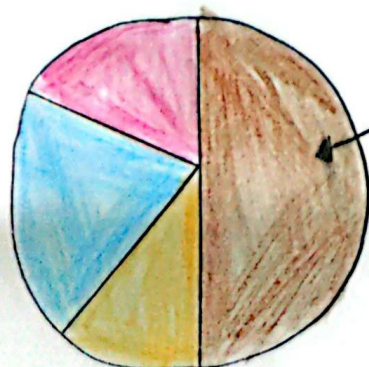
Year 1990 2022

## FOCUS



Natural Disasters : Earthquakes  
Year : 2019  
No. of Occurrence : 148

- When hover over the point, tooltip shows information for that particular disasters

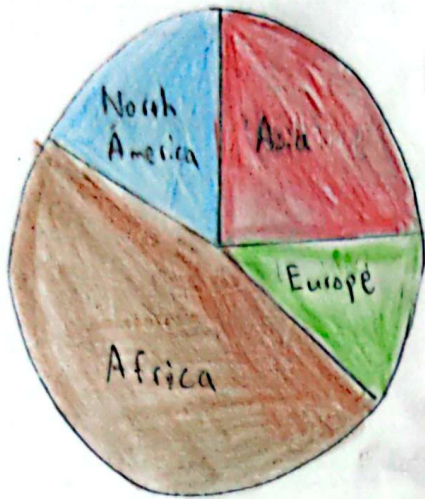


Disasters Type : Floods  
No. of Occurrence : 40  
Total : 80

- Hover over the segments able to see number of occurrence for that natural disasters and ratio contributed to totals.



# LAYOUT



## CONTINENTS

Asia  
Europe  
Africa  
North America

Year 2020

Title: Natural Disasters  
Contribution to deaths  
Author: Tang Zhong Weng  
Date: 14th Oct 2024  
Sheet: 3  
Task: Visualise which disasters causes more deaths

## OPERATIONS

- Slider to view specific year
- Continents option bar to visualise specific continents

## DISCUSSIONS

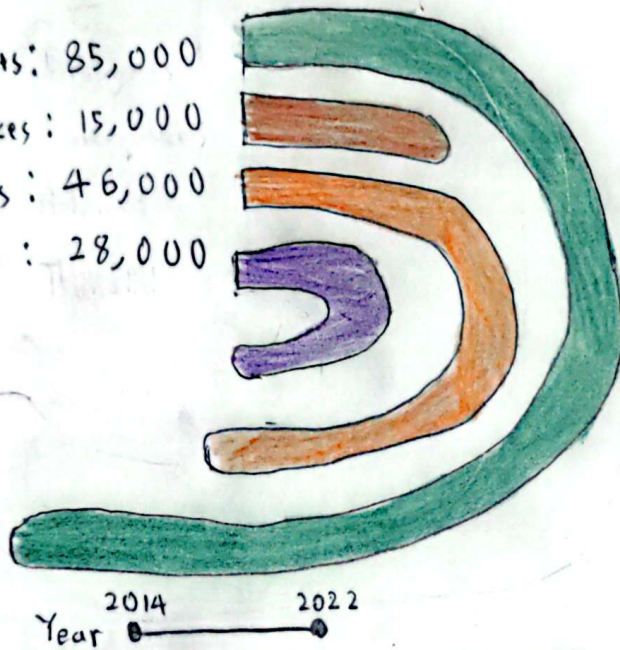
### Advantages

- Able to focus on specific continents instead of world
- Easy and visual appealing

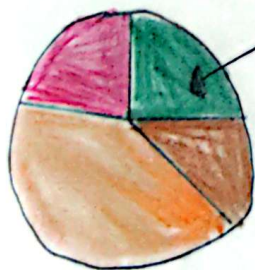
### Disadvantage

- Cannot focus on specific country
- No comparison between years
- The visualisation is overwhelmed by disasters that has highest number and unable to focus other disasters with low number

Droughts: 85,000  
Earthquakes: 15,000  
Floods: 46,000  
Tsunamis: 28,000

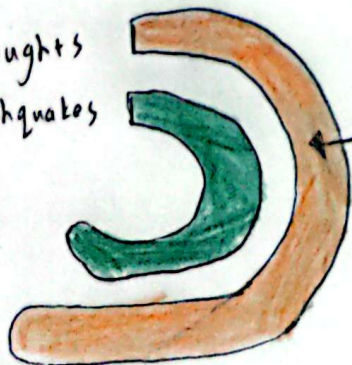


## FOCUS



Natural Disasters: Floods  
Continents: Europe  
Death contributes: 25%  
Total Deaths: 100,000  
Year: 2002

Droughts  
Earthquakes



• Hover over the bar to show tooltip

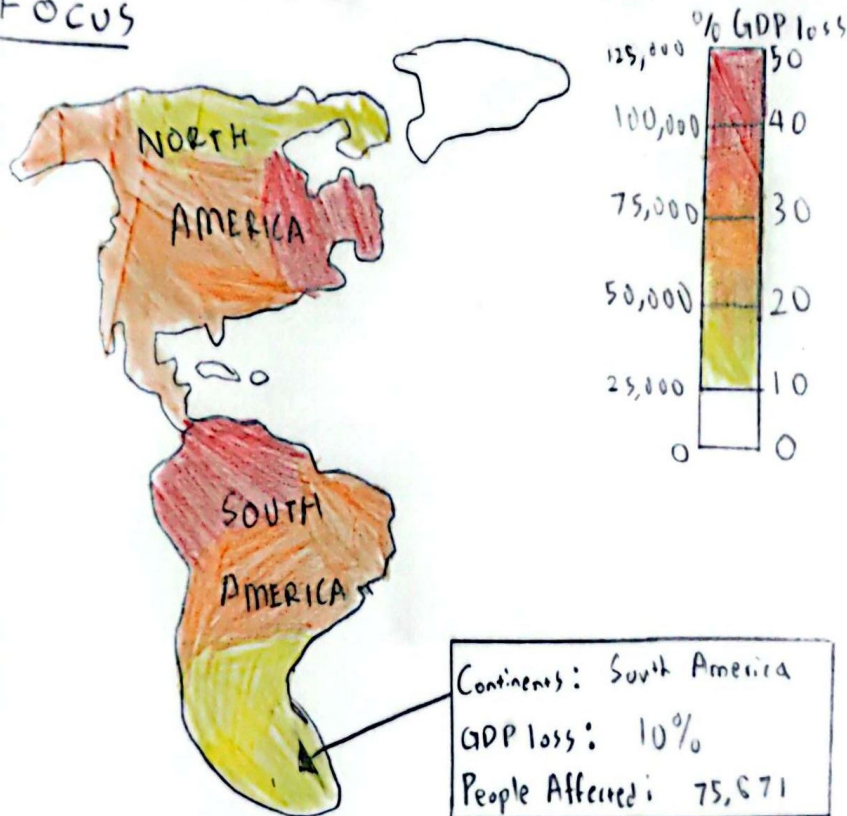


# LAYOUT



Year: 2000 ————— 2020

## Focus



- Hover on map surface to show tooltip of the % GDP loss and total people affected on that continent
- The higher the saturation, the higher GDP loss & people affected

Title: GDP Loss & People Affected

Author: Tang Zhong Weng

Date: 14th Oct 2024

Sheet: 4

Task: Visualise the affected Country

## OPERATIONS

- Animations to show the visualisations over the years
- Slider to view specific year

## DISCUSSIONS

### Advantages

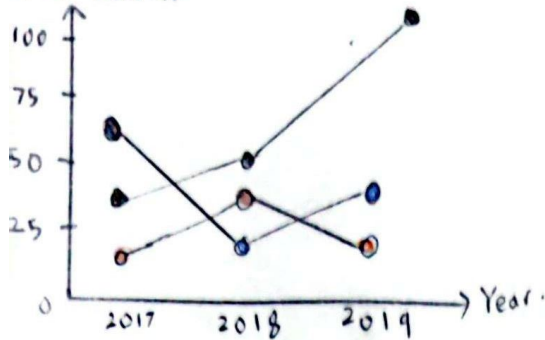
1. World Map able to visualise the GDP loss & People affected in one map
2. User able to see which area has the largest loss

### Disadvantages

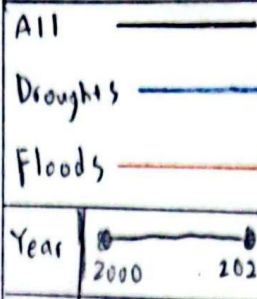
1. Country's city & states unable to zoomed in to specifically check how terrible does it affect the city

# LAYOUT

No of Disasters



Natural Disasters



Title : Final Design

Author : Tang Zhong Weng

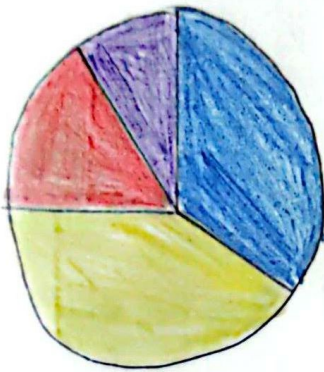
Date : 14th Oct 2024

Sheets : 5

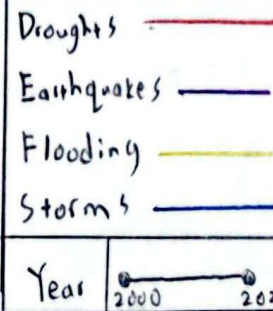
Task : Final Design Webpages

## OPERATIONS

- 1) Slider to view specific year
- 2) Click to view specific Natural Disaster Type



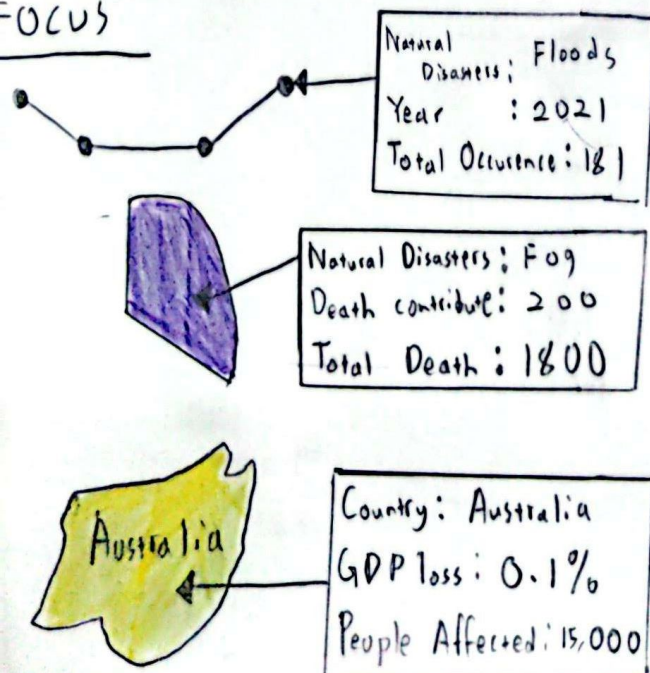
Natural Disasters



## Advantages

- 1) All diagram able to visualise the effect of natural disasters
- 2) Colour saturation able to identify the severity of the country

## FOCUS



## Disadvantages

- 1) Outlier may cause the colour uncomfortable to view
- 2) No zoom in features to view country's states