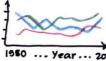


combine both maps into one main map.

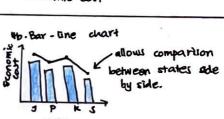


- color can represent the severity of the disaster by the number of casualithes
- size of circle can show the total economic cost as a result of these disasters.
- · Tooltip: statename, costs and deaths.
- combines human and economic impact.

we can we a Multi-line chart to add temporal storytelling. Economic cost



- -colour: disaster type (floods/landslide,etc)
- shows how certain disasters rise or tall by time .
- allow viewers to analyse patterns as well as the economic impact there disasters caused.



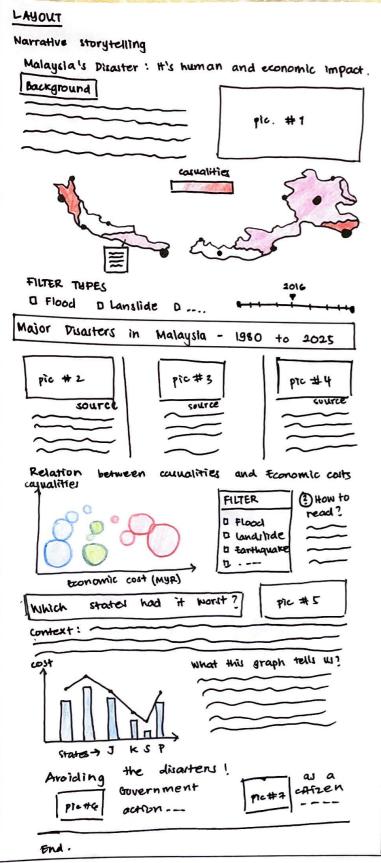
- chart too confusing? 2a
- . In the temporal mutti-line chart would it better to we decade instead of years to avoid duttering.
- · How many disaster types should we we, all, or 3 most impactful

Author: Brian Christopher Tamara

Pate: 08/10/2025

Sheet! 1

Task: Brainstorm



Title: Malaysia's Disalters: Human and Economic Impact.

Name: Brian Christhopher 7amara

Date: 10/10/2025

Sheet: 2

Task: Interactive dashboard with narrative storytelling.

OPERATIONS

for the choropleth map, the color of the state represents the severity of the cosmalities. And, size of circles represent total economic lost.

FILTER

& Landside & Flood & Earthquake ...

allow newer to their disaster types shown a map

t year lider to show data for each year, allows personalized e.g.,

viewing State : Johor 2016 Year: 2016 deaths: 128 2017 Cost : 128 000 Johor

State : Johor Year : 2017 deaths: 1573 cast : \$73000

chart, the filter allows viewers to In the Bubble only displays disasters to display which 24.1 Filter

dicaster "L".

Discussions

& L OF

- could the narrative thow be improved?
 - filter for disaster type in the choropleth needed?
 - Too much text, causes readibility issues?
- sufficient data (1980-2025)?
- short. keep narrative captions
- text crowding. Avoid
- Add summary stats?

FOCUS

- The focus is on narrative Horytelling a data driven story page that gives viewers a guide through the Impact of Natural Pasarters; both Human and Economic Impact.
- Aim is to snow how disasters affect Malaysia the years, and as a offizer what can to prevent these disasters. do



The main piece of this vis is the choropleth map that represents the seventy of casualities by color, and the circle size shows the total Feonomic Lost for that state.

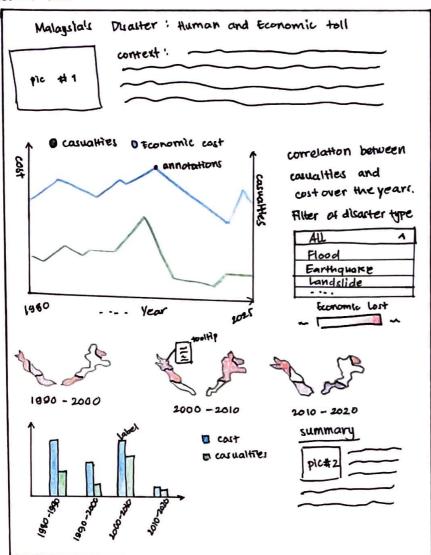


-The Bubble chart gives the riewers a prespective on the direct cornelation between the number of casualities and cost. colour = type of disaster sive : year

- Bar + line chart gives state by state comparison

LAYOUT

Dashboard View



Title: Malayzids Disaster: Human and Economic to 11

Author: Brian Christopher Tamara

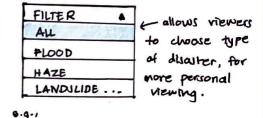
Date: 10/10/2025

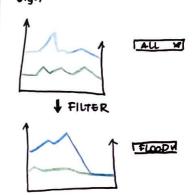
Sheet: 3

Task: Timeline focused visualisation.

OPERATIONS

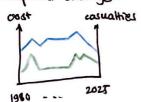
· A dropdown filter the main virualization - Dual axis multiline chart.





FOCUS

- -The focus is to explore the impact of natural disasters in Malaysia, and how it has changed overtime (1980)
- There is no main visualisation, as all three charts visualises temporal change.





- Dropdown filter to allow viewers to dynamically shift their focus into different disaster types.

The dual line chart allows whenever to see the trend and correlation between cust and casualties.

- The small multiple maps and bar chart gives a comparative aspect decade by decade. Helps identify peak years and period of major disasters.
- Emphasis on darity and temporal storytelling.

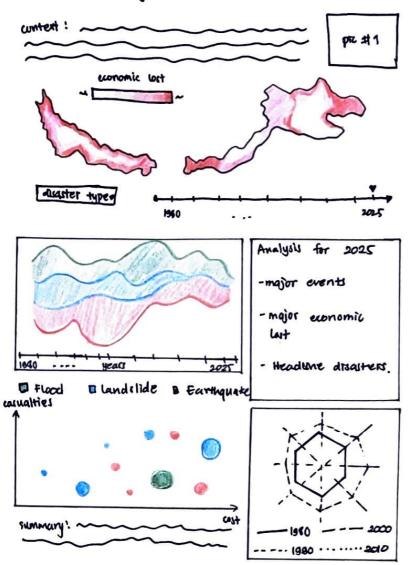
DISCUSSION

- · layout of dual line chart and maps must be vertically align to aid readibility.
- · standardized tont sizes.
- · would the Dual line thart create confusion among readers?
- · Use toothips on small champleth maps (state, year, cost, death) and annotations/labels on other charts
- · Year slider needed?
- · Use same constant coloning among charts.



Pachboard View

Malaysia Under Pressure: Finding Balance Between Nature and Economy (1940 - 2025)



The: Anding Balance Nature and Economy Name! Brian Christopher Tamara Date: 10/10/2025 Sheet: 4

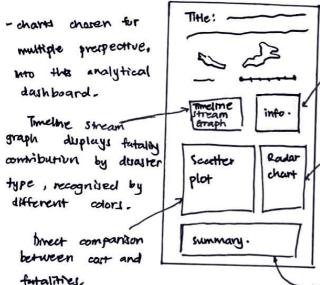
task: comparative and analytical Dashboard

Operations year stider to choose which Year to display on heatmap. to allow +ype dynamic viewby dropdown filter to allow newers to choose which disaster the to display on heatmap. Years gear slider Info . on the will also affect anasen the content year, displayed on informative text box -

Text box diplays major events of chosen year, major discuters and correlation to the economy.

Focus

-The main visualization is the heatmap displayed on the top section of the dashboard. I color: weighted cast of disaster.



provides many htful information to readers that dynamically shift accordingly to the slider.

summarives overall pressure per decade, shows the changing balance between human is economic Impact.

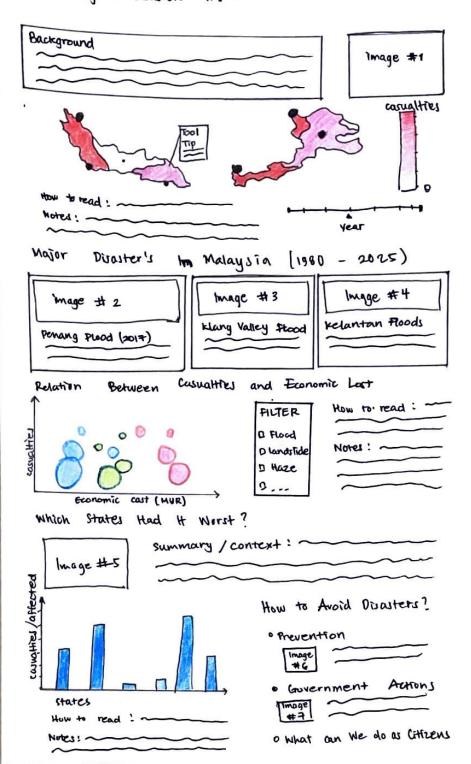
provides summary of dashbeatch, what we know, why we need to know there info. and what can we do.

MOTEUSED

- can the average newer digest all the different prespectives without confusion?

- can the wewer obtain a clear analysis from all these charts? Layout

Malaysia's Duasters: H's Human and Economic Impact



Focus

The main focus is on the narrative storytelling, an Interactive darhooded gives trewers a guide through The history of Natural Malaysia, H's Human and economic Impact through Disasters in a guide on how to avoid / prevent there maps and charts, and mfo to help moders

Disasters.

- The main visualisation is the aurolophie map with the bubble overlay. The seventy of colors represents the casualties / affected and size of represent economic lust by the disaster. caused

colors, represent number affected by disasters

represents economic lost coursed by that

disasters.

Title: Malaysia Disasterly: Humanand Economic

Name! Bran Christopher Tamara

Date: 12/10/2025

Sheet! 5

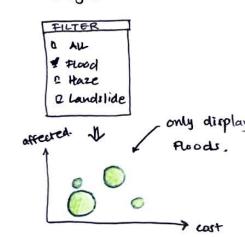
Task: final Realisation Design.

OPERATIONS

+ map visualisation:



- year sinder allowing the newer to dynamizally change the choropleth map with the data of the years accordingly.
- Toothip when viewer hovers over the different states a toolfip will be doplayed showing - state, year, affected, economic last , etc.
- + Bubble chart:
 - This bubble chart has a filter to allow mewer to choose which disaster types to compare. Allows a more personalised new experience and analysis.



Ducusions

- -1s there too much text?
- Could there be more Interactive chans, to allow for more

Detail

- Vegalite Javascript for creating maps and charts.
- We HTML, CLS and Javascript for visualisation dashboard.
- Github for hosting final visualisation.

- Bubble chart and Bar chart supports the vis.