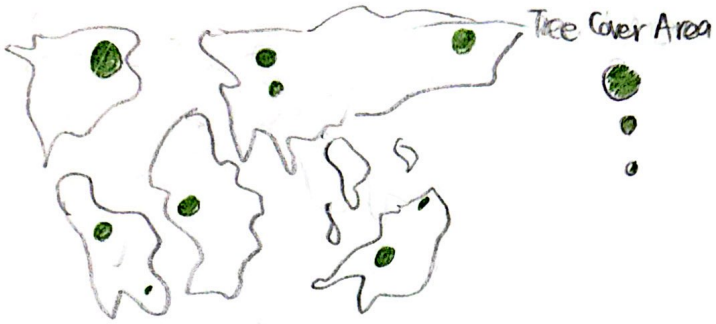
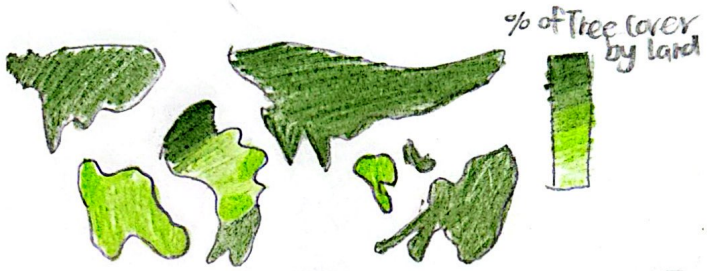
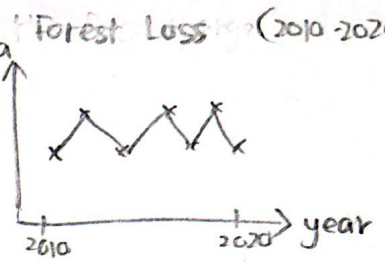
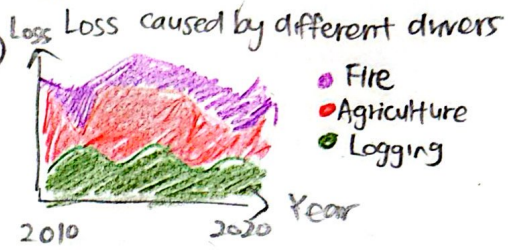
Ideas

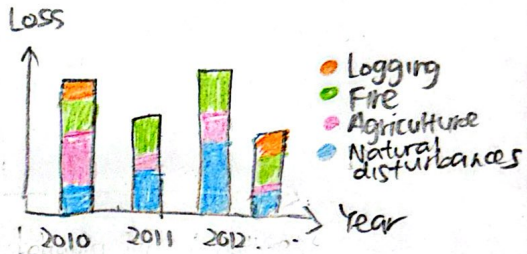
1) 

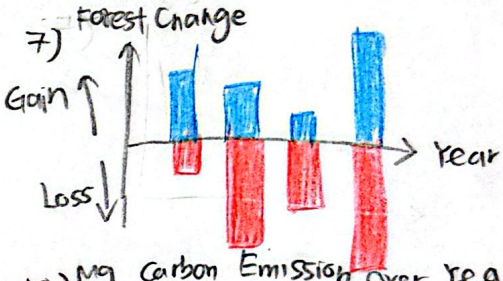
2) 

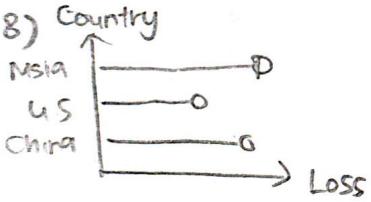
3) 

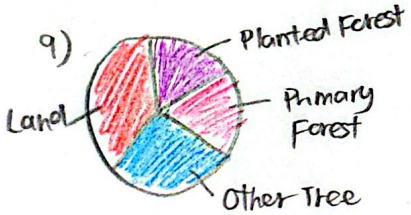
4) 

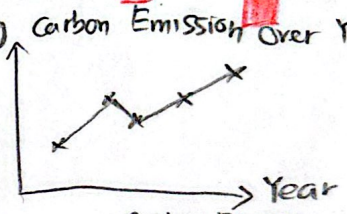
5) 

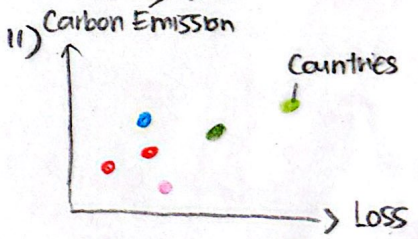
6) 

7) 

8) 

9) 

10) 

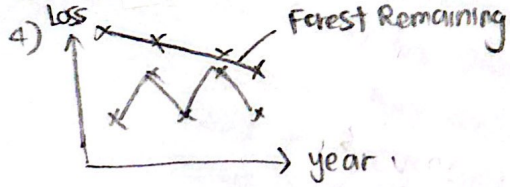
11) 

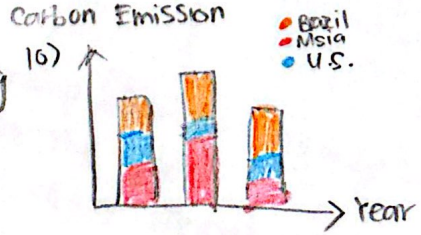
2) Filter : ① & ② duplicated → keep ②
⑤ & ⑥ duplicated → keep ⑤

3) Categorize

- Overview of World ⑨
- Forest Cover in World ②
- Loss Trend ③ ④ ⑧ ⑦
- Drivers ⑤
- Impact ⑩ ⑪

4) Combine & Refine

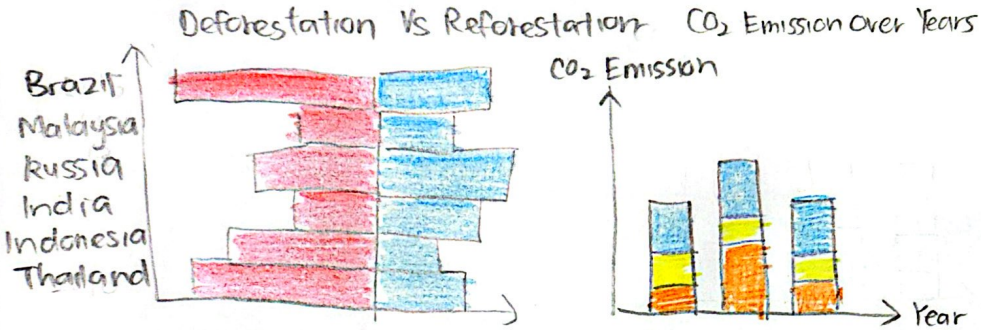




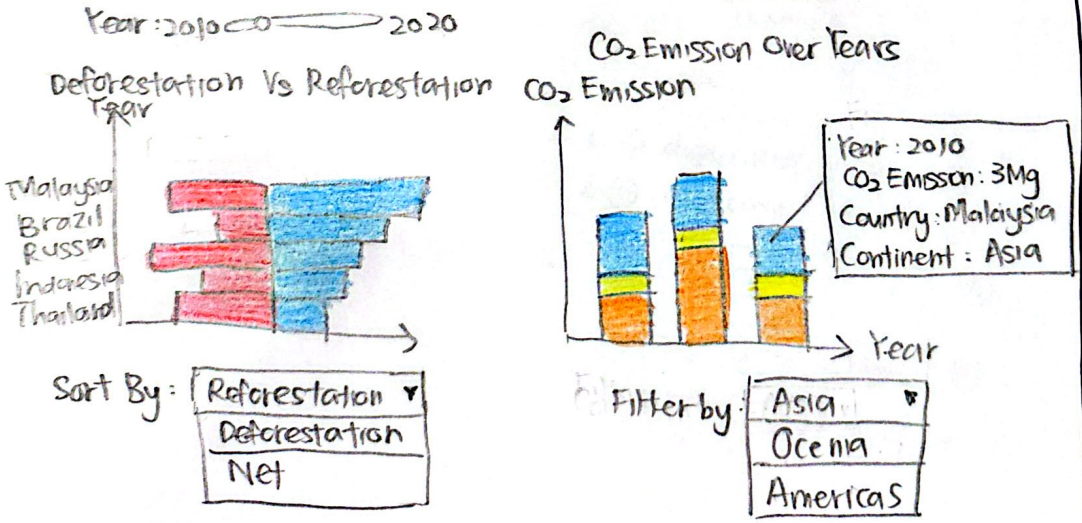
Questions :

1) Are they feasible given available data?
2) Do the visualisations help audience understand global forest change?
3) Can these created using Vega lite?

LAYOUT



FOCUS



⇒ Highlight how the global's forest area is changing in (and where) a glance by sliding through year slider in choropleth map

⇒ Focus on how deforestation and reforestation change the proportion of forest area

⇒ Focus on the impact of deforestation (CO_2 Emission) in each continent in each year

INFO

Title: FIT3171 A2
Author: Chin Sze-Ning
Date : 19 October 2025
Sheet No : 2

Operations

⇒ Filter on : continents, and Years

⇒ Sort by Deforestation, Reforestation or Net

⇒ Tooltip on hover

Discussions :

PROS

⇒ Easy to see tree cover globally each year at a glance

⇒ Show which country has highest deforestation and reforestation rate

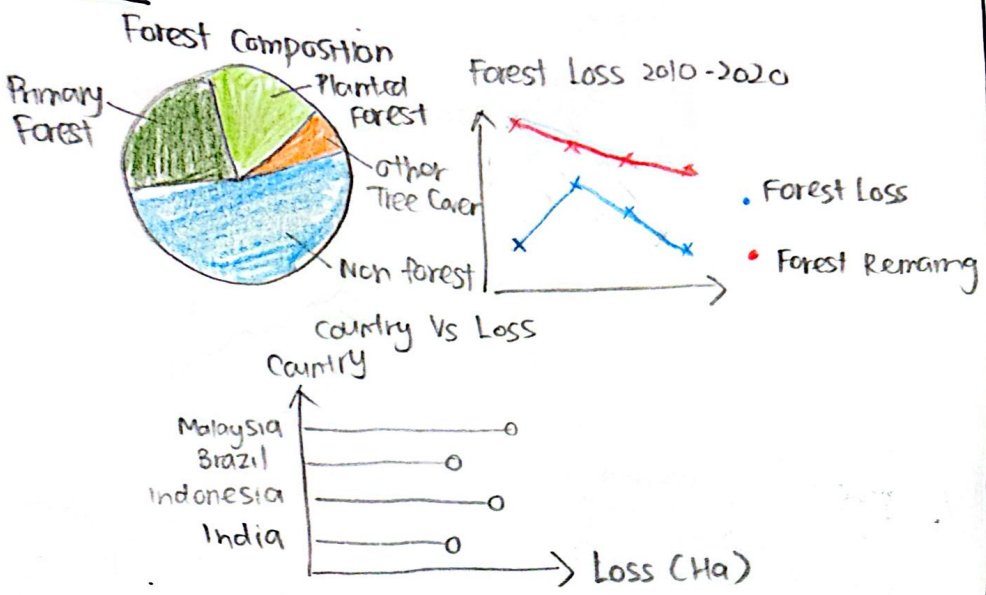
⇒ Show carbon emission each year and the country contributed to the emission

CONS

⇒ Unable to see deforestation and reforestation rate by all countries as it only show Top 10 / 20

⇒ Stacked bar chart has a lot of small stacks as there are a lot of countries in the world

LAYOUT



INFO

Title : FIT3179 A2

Author : Chin Sze-Ning

Date : 19/10/25

Sheet No : 3

Operations

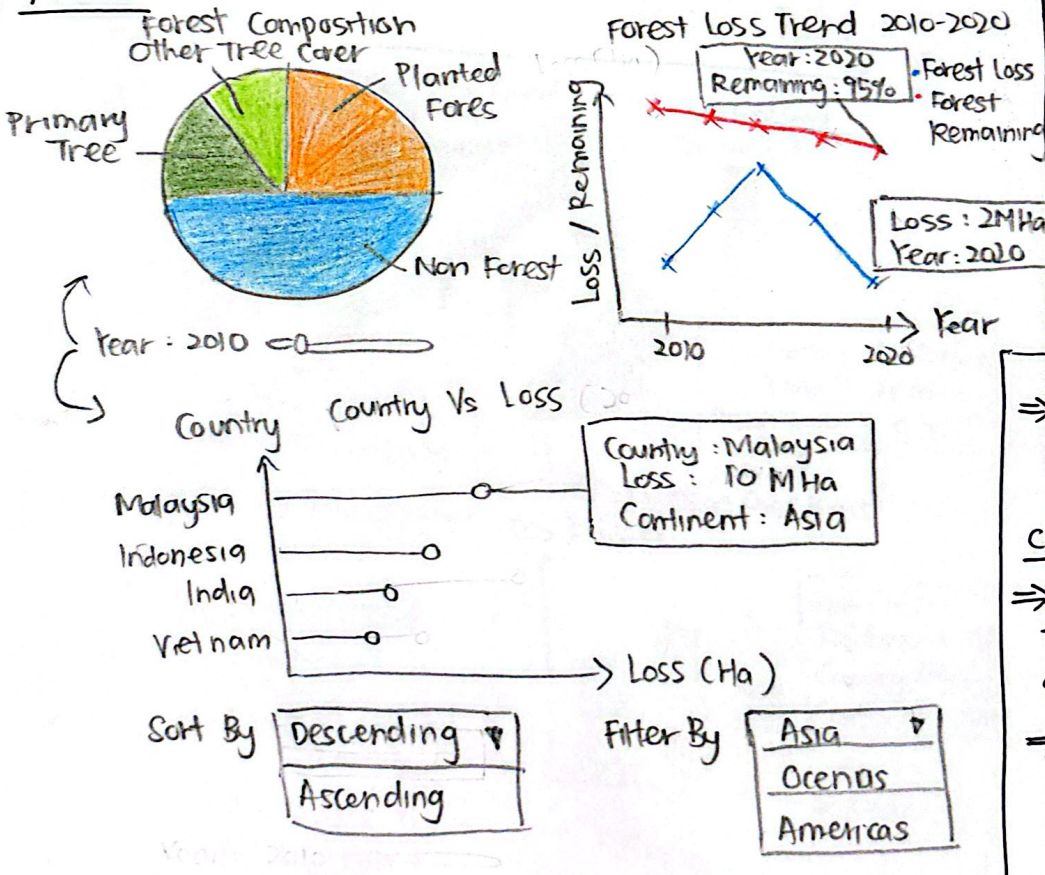
⇒ Tooltip on Hover

⇒ Filter by : Continents Fears

⇒ Sort by : Loss (Descending / Ascending

⇒ Brushing (Fear sider)

FOCUS



⇒ Focus on comparing composition of forest over the years

⇒ Highlight the trend of forest loss and the forest remaining after loss

⇒ Focus on highlighting which country contributes to the loss of forest

DISCUSSIONS

PROS

⇒ Show the forest remaining in the world each year

⇒ Show the relationship between forest loss and forest remaining

⇒ Show which country contributes most to the loss

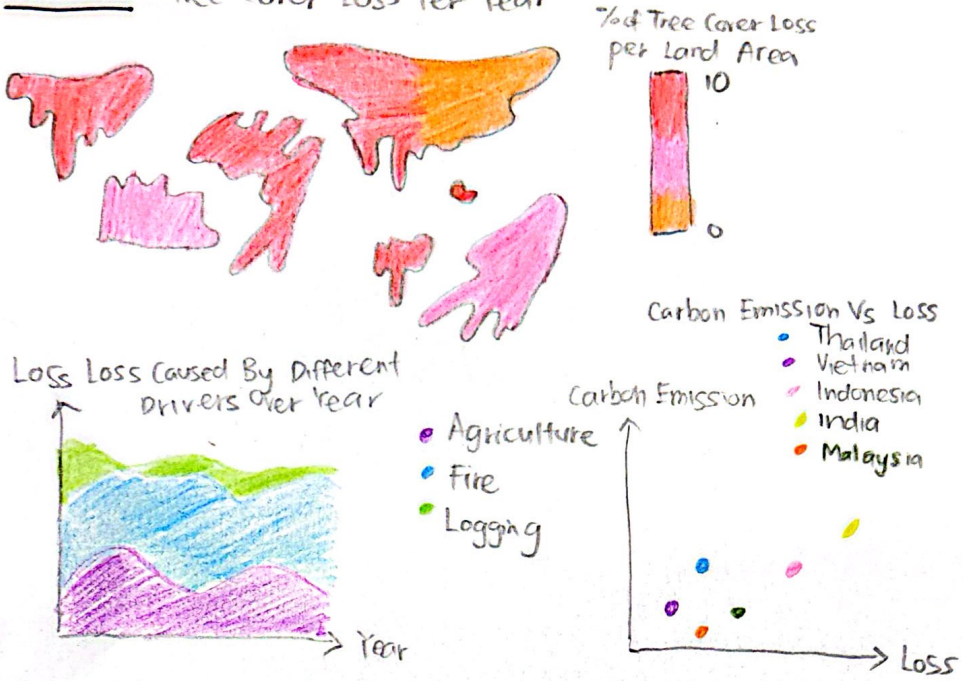
CONS

⇒ Unable to see the location and overview of loss in a map

⇒ Only surrounding the content with loss

⇒ No show relationship with drivers or impact

LAYOUT



INFO

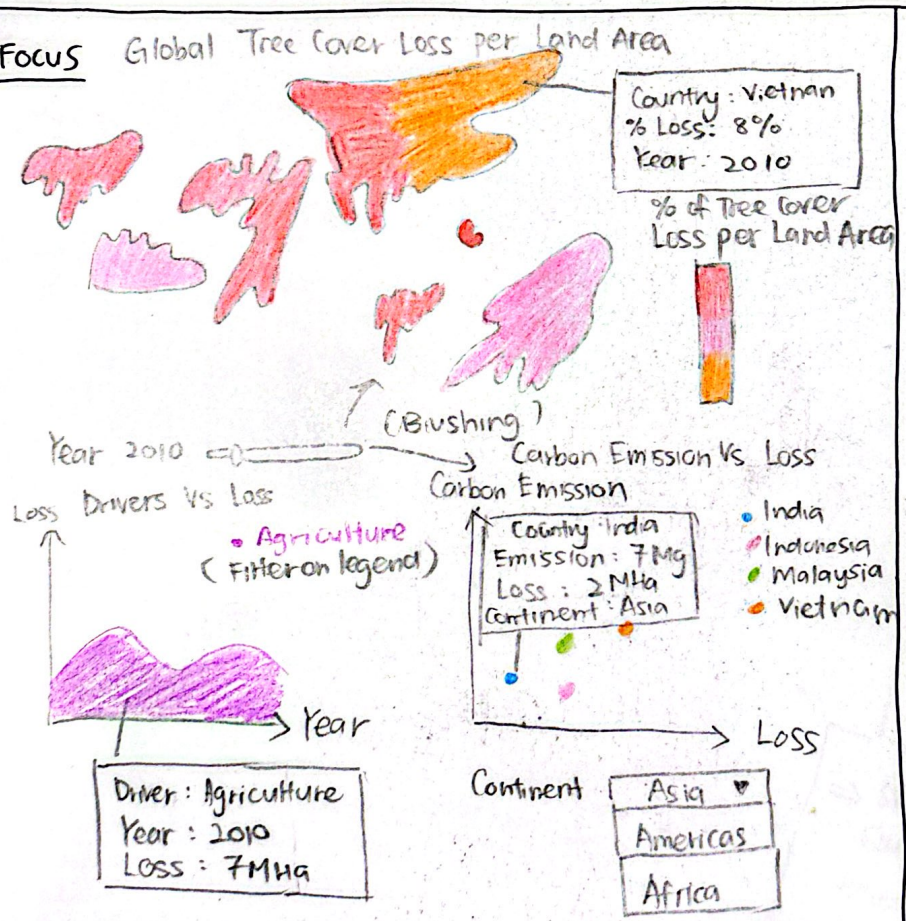
Title : FIT3179 A2
Author : Chin Sze Ning
Date : 19/10/25
Sheet No : 4

Operations

⇒ Tooltip on Hover
⇒ Filter by Continent, Year, Drivers
⇒ Cross filtering

(choropleth Map & Stacked Area Chart)

Focus



⇒ Focus on how much tree cover loss globally and anually
⇒ Focus on how each driver contributes to the loss of forest over the years
⇒ Focus on the relationship between loss and carbon emission

DISCUSSIONS

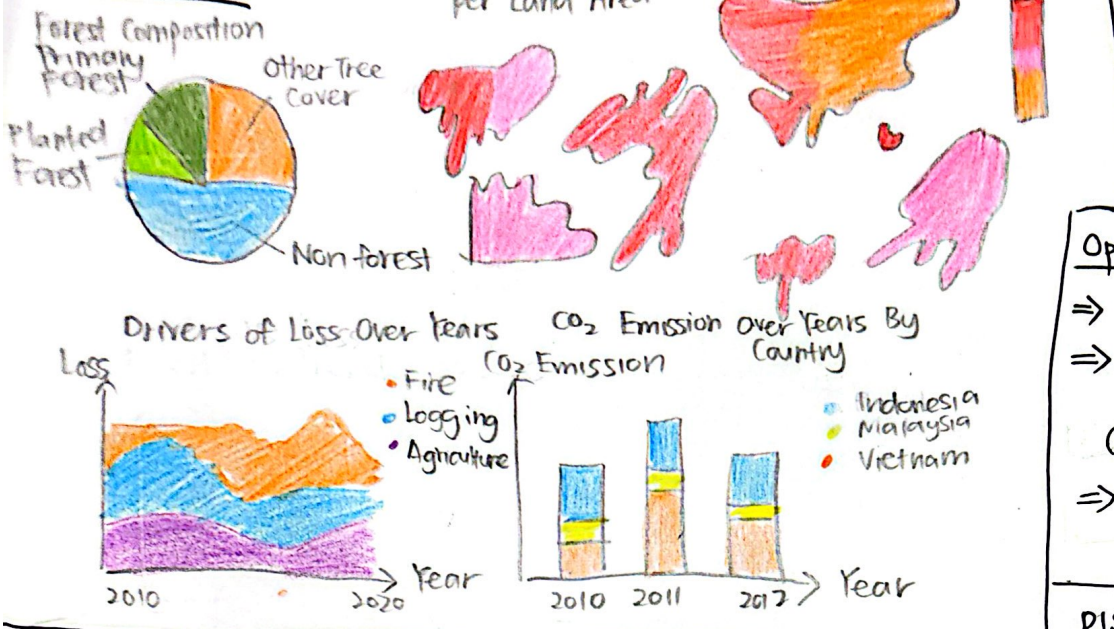
PROS

⇒ Global Tree Cover Loss Rate at a glance
⇒ Show the drivers of loss and the total forest loss each year at the same time
⇒ Able to see loss of forest of each country and carbon emission at the same time

CONS

⇒ Loss by each country might be similar, hard to differentiate in map
⇒ Too many countries in the world, scatter plots have many points with different colours, difficult to differentiate

LAYOUT



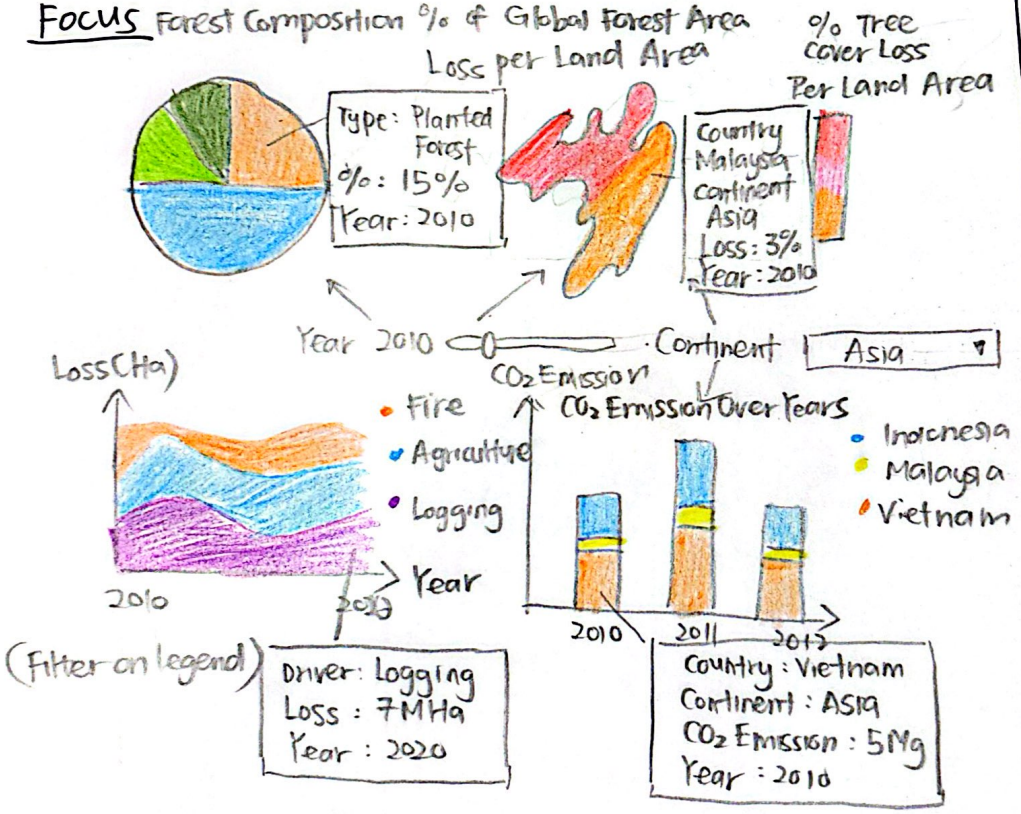
INFO

Title : FIT3179 A1
Author : Chin Sze-Nin
Date : 19/10/25
Sheet No : 5

Operations

⇒ Tooltip On Hover
⇒ Filter by : Years, Continents (dropdown, legend)
⇒ Cross filtering

Focus



⇒ Focus on the relationship between proportion of forest and forest loss over the years
⇒ Focus on how each driver contributes to the loss of forest and show the total loss in each year
⇒ Focus on carbon emission by each country or each continent in each year

DISCUSSIONS

PROS

⇒ A complete storytelling from overview, to loss trend, to drivers, to impact
⇒ Show the relationship between loss and CO_2 Emission
⇒ Global Tree Cover Loss Rate at a glance
⇒ Countries contributed to the CO_2 Emission can be shown and filtered using continents

CONS

⇒ Stacked bar charts might have a lot of small stacks as there are a lot of countries in this world, might need to group as others