IDEAS

⇒ Trends

⇒ Show details by country/region

Asia Europe

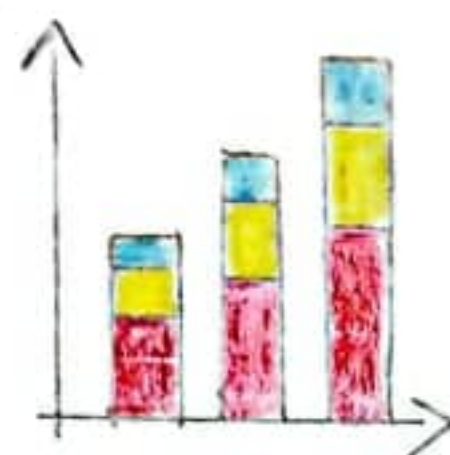Cereal Fruit
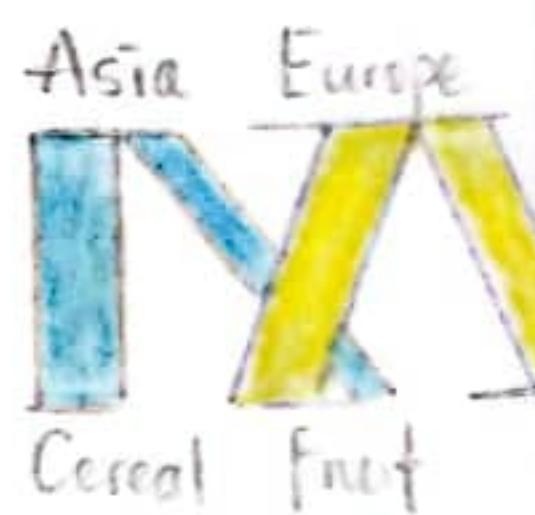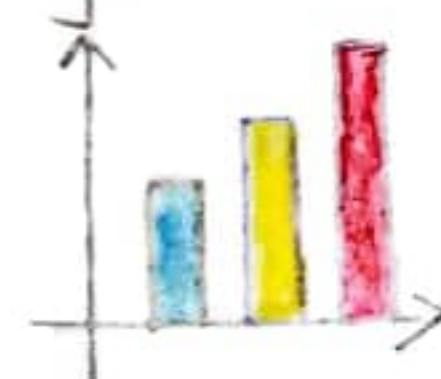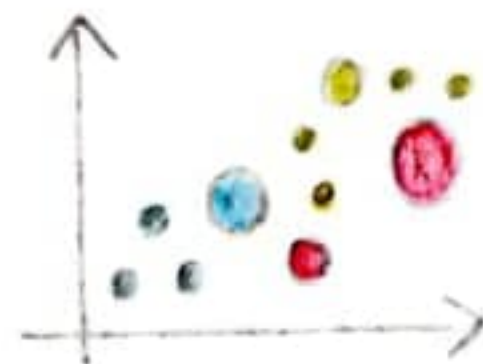
⇒ show details by food supply stage

⇒ Show details by food/food type

Cereal
Apple Rice
Orange Corn
Cabbage

FILTER

- remove bar chart because it is not suitable for showing proportion of food waste in top 10 countries.

- remove stacked bar chart because it does not show the viewer the process/flow of the generation of food waste at supply stage level

- remove clustered force layout because it might be too complicated for the viewer to identify the most wasted food

COMBINE & REFINE

1. Combine bubble plot & pie chart together. when clicked on the dots, pie chart will show the major food waste type for that country/bubble.
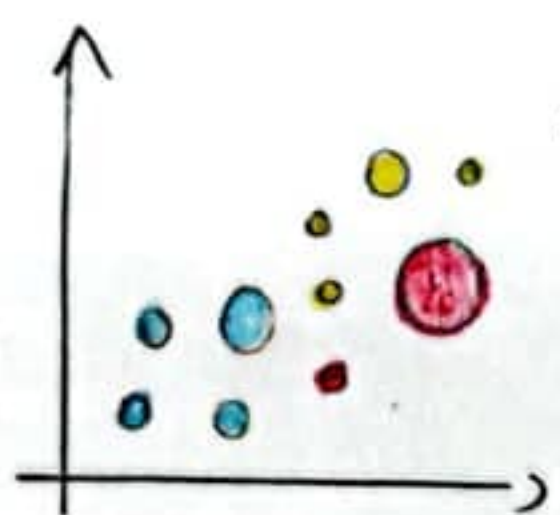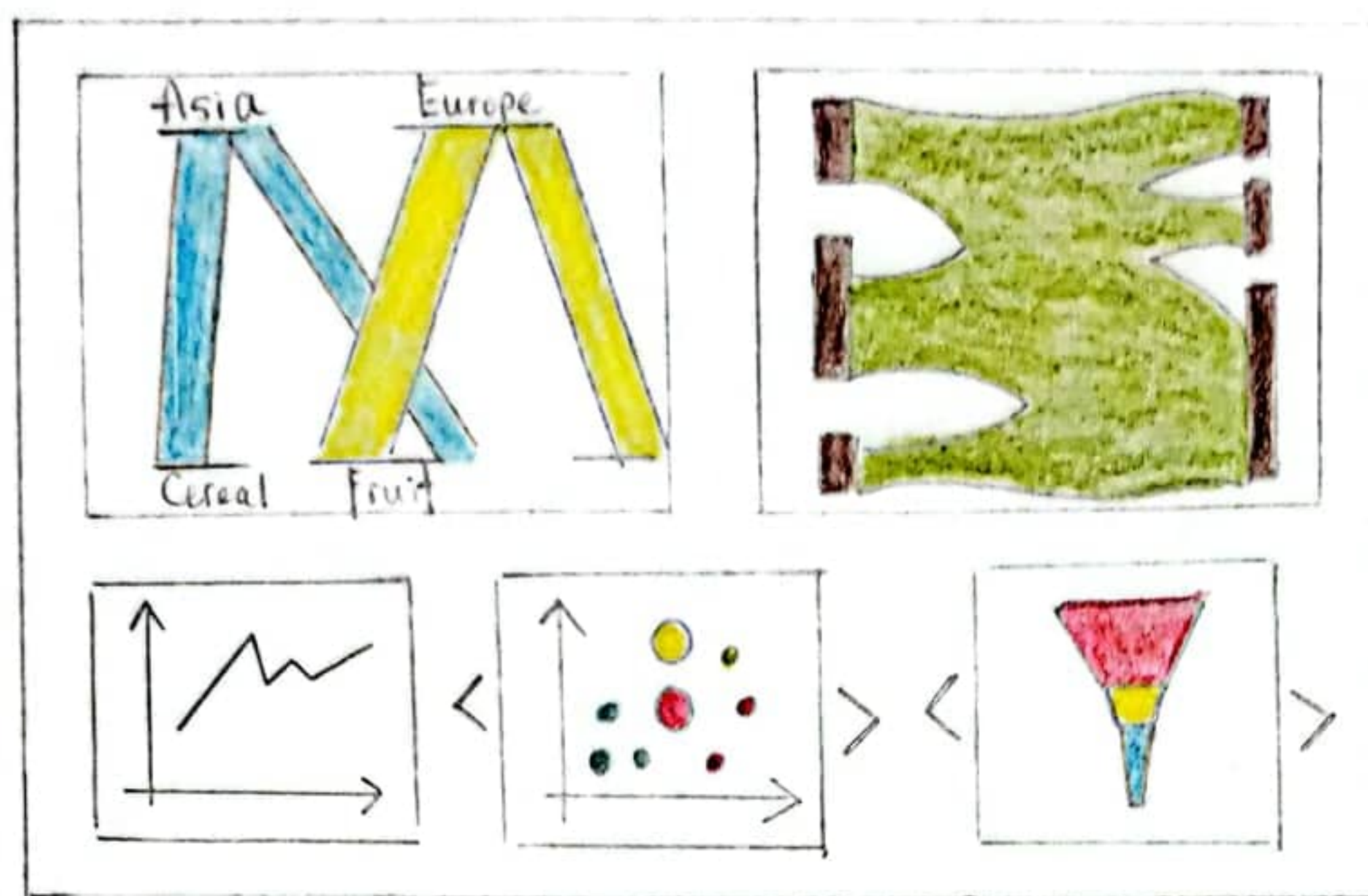

clicked

CATEGORIZE

1. trends
   → line chart

2. details by country/region
   → bubble plot to compare food waste by population for each country
   → donut chart for top 10 country with most food waste
   → parallel sets for major waste type produced by continent

3. details by food/food type
   → word cloud to show the most wasted food
   → pie chart to show proportion of food type

4. details by food supply stage
   → funnel chart for proportion of loss during food supply stage
   → alluvial diagram for the flow of major waste type produced by supply stage

QUESTION

1. Is the implementation doable

2. is the value in the visualization distinctive enough for the viewer to spot the differences easily?

LAYOUT

Dashboard View

OPERATION

click
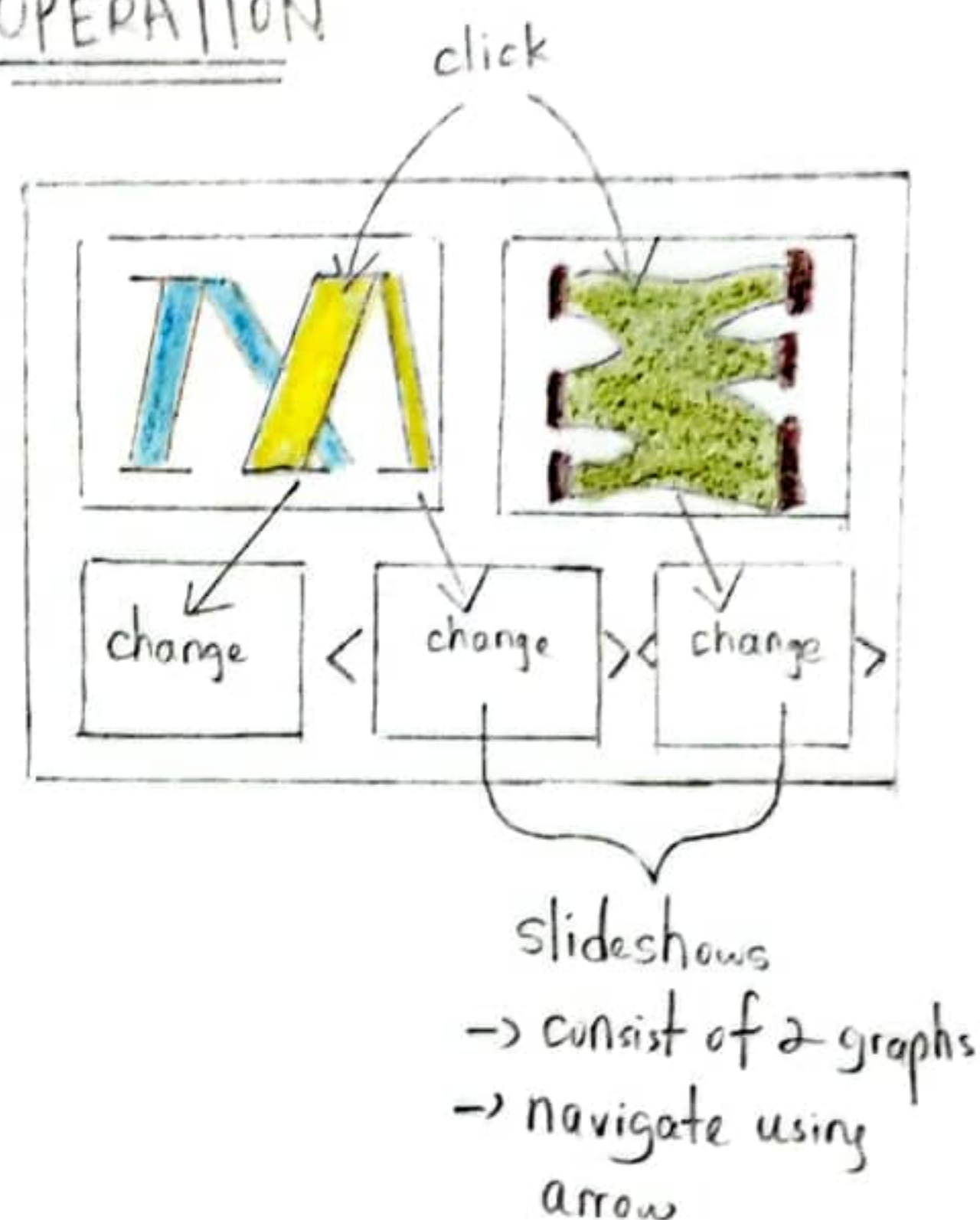

change   <   change   >   change   >

slideshows
-> consist of 2 graphs
-> navigate using
arrow

FOCUS

major food waste produced
at region level

Region
1

Food type
2

Trend   Country   Food
supply
stage

→ The flow for the
loss of food type
along food supply
stage

↘ Generation of food
waste by food supply
stage level

Trend of food
waste along the
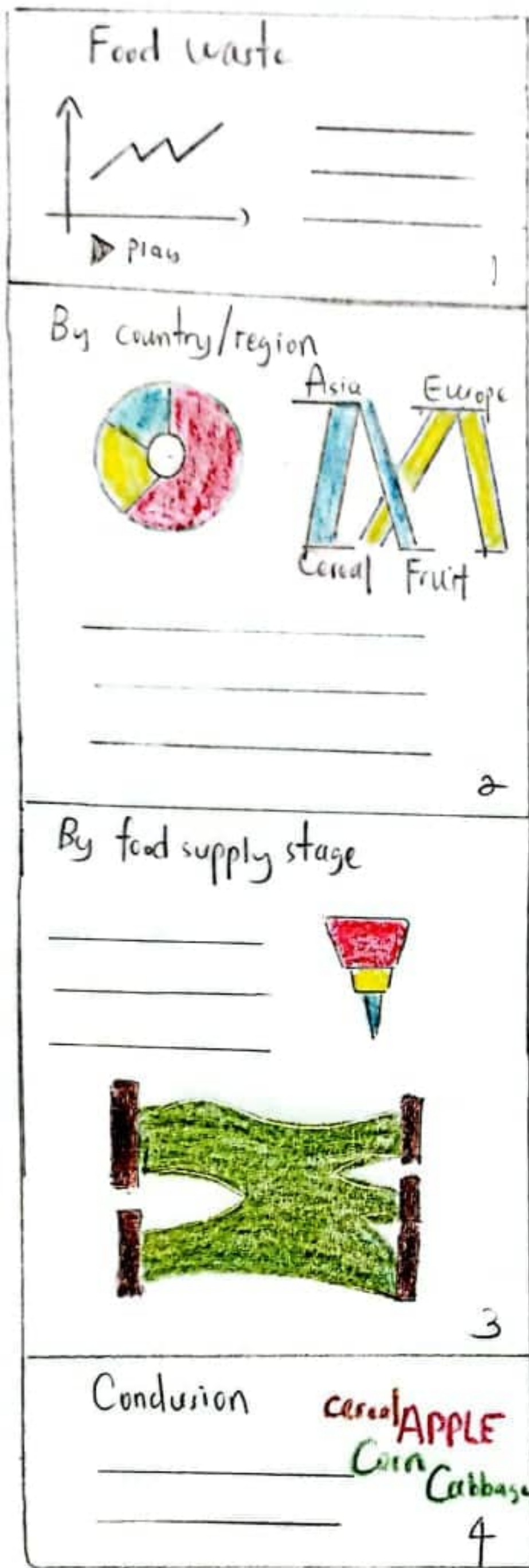years

Food waste
by country
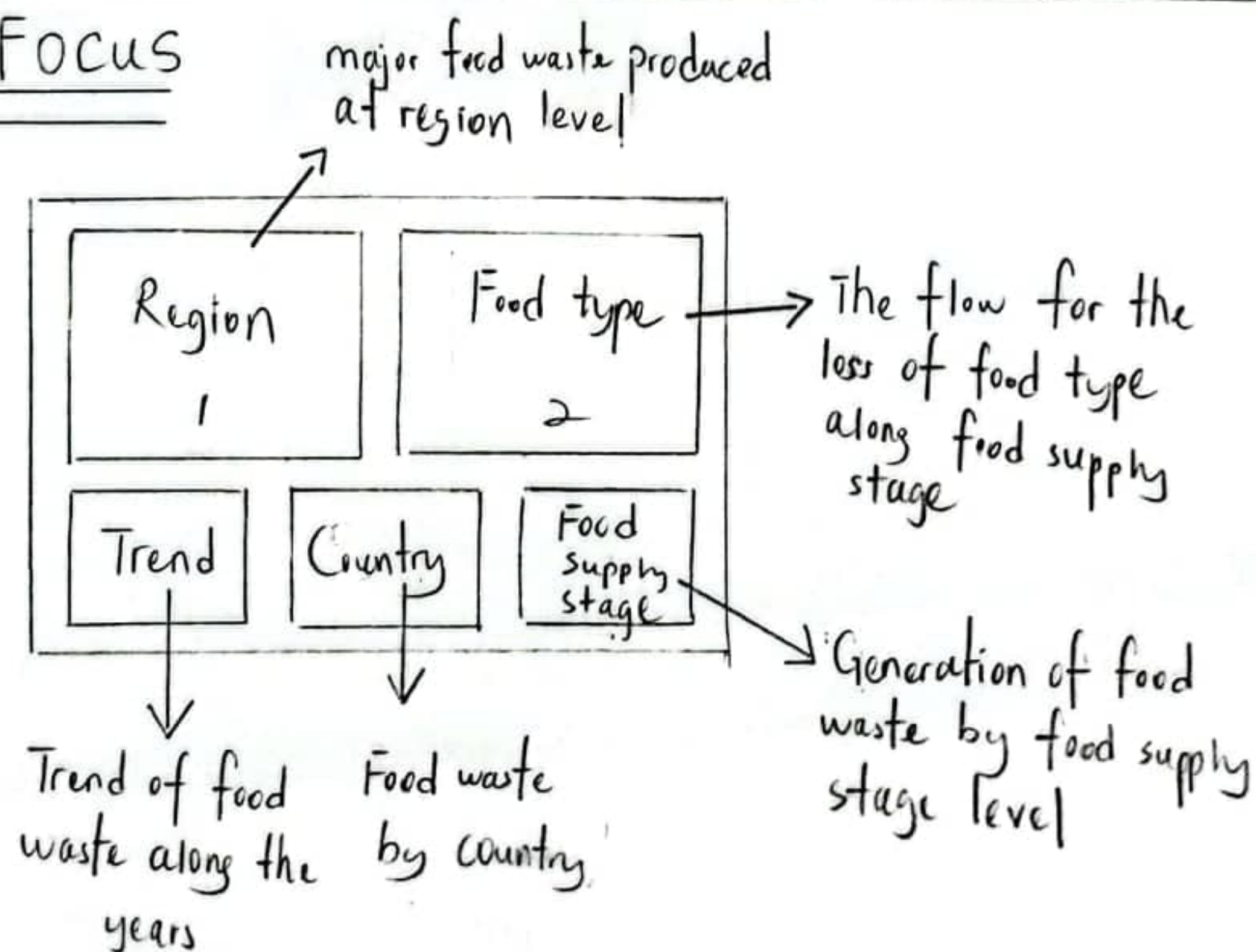
☆ Both 1 & 2 are very important as they are at
visual centre.

DISCUSSIONS

- too much visualization/information
dump in one page

- not much explanation for the
visualizations

- main focus is on parallel
sets & alluvial chart as
they are larger than others
and placed in visual centre

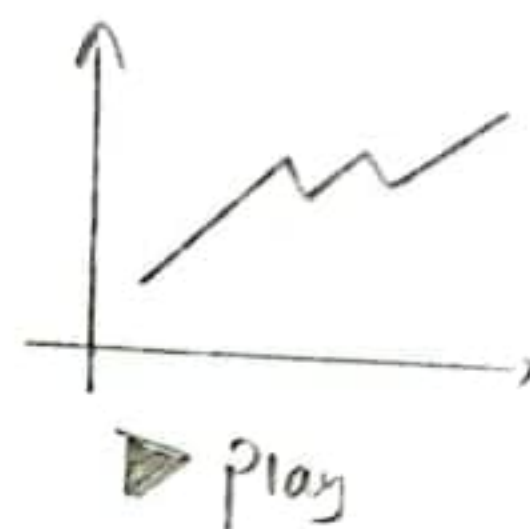- user interaction (navigation
through arrow)

LAYOUT

Article View

Food waste

▷ Play

By country/region

Asia   Europe

Cereal   Fruit

Scrollable

2

By food supply stage

3

Conclusion   Cereal APPLE
Corn Cabbage
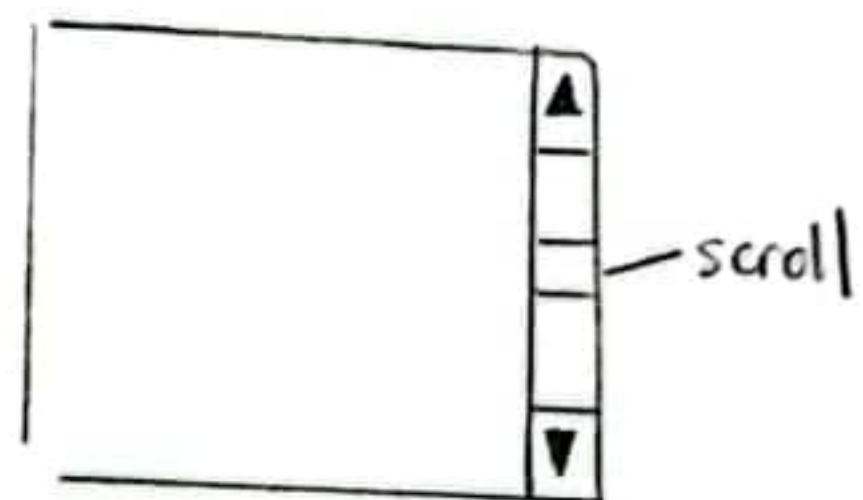
4

OPERATION

when click on play button, the trend will be slowly drawn

▷ Play

Discussions

- User do not need to move from 1 page to another where 1 page only contain 1 viz/text

- split into multiple pages where each page is about 1 specific topic
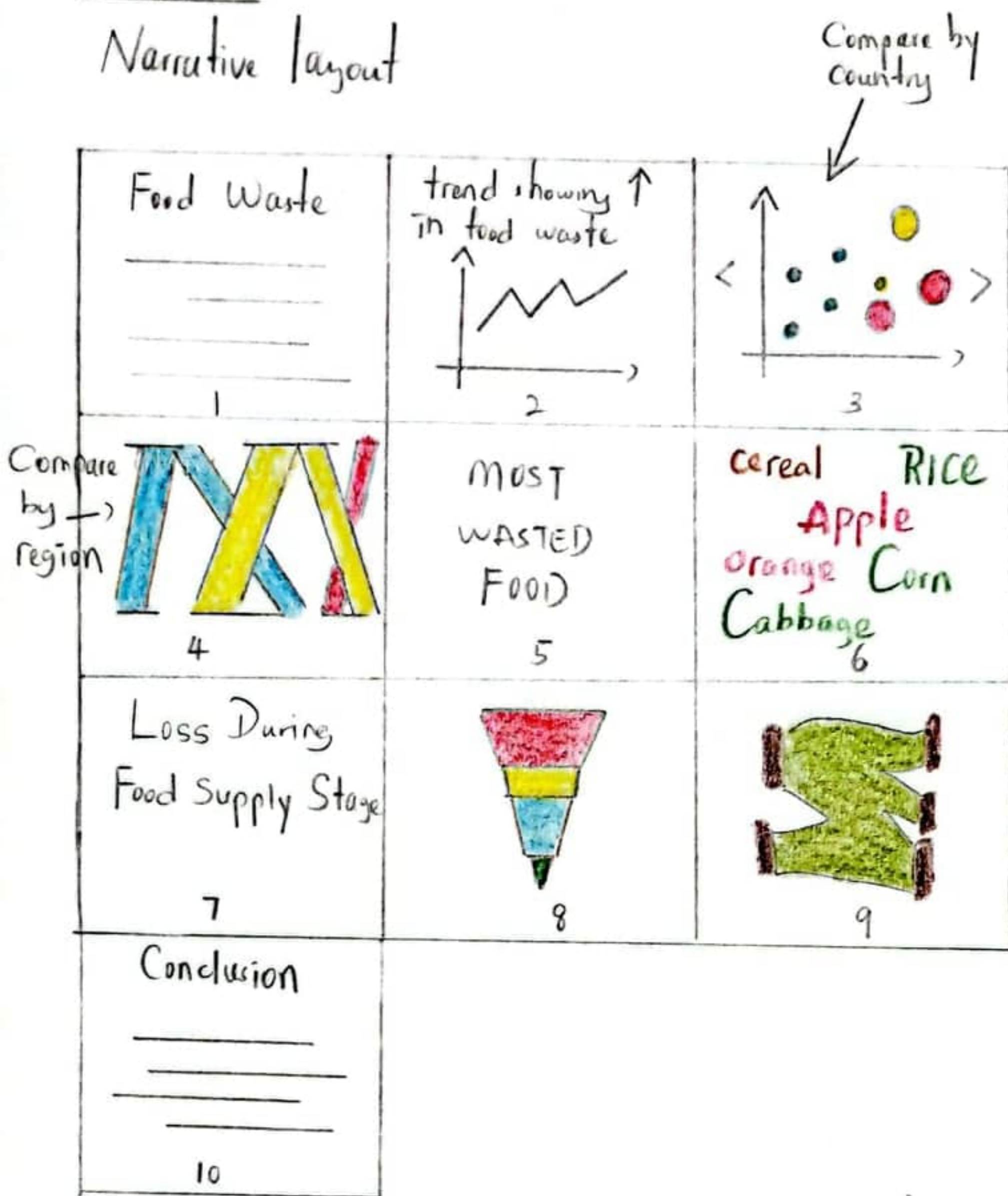
Focus

- if the visualization/content too big for 1 page, enable scrollable mode

scroll

LAYOUT

Narrative layout

		Compare by Country
Food Waste _____ _____ _____ 1	trend showing ↑ in food waste 2	 3
Compare by → region 4	MOST WASTED FOOD) 5	Cereal RICE Apple Orange Corn Cabbage 6
Loss During Food Supply Stage 7	8	9
Conclusion _____ _____ _____ 10		

OPERATION

Page 3:
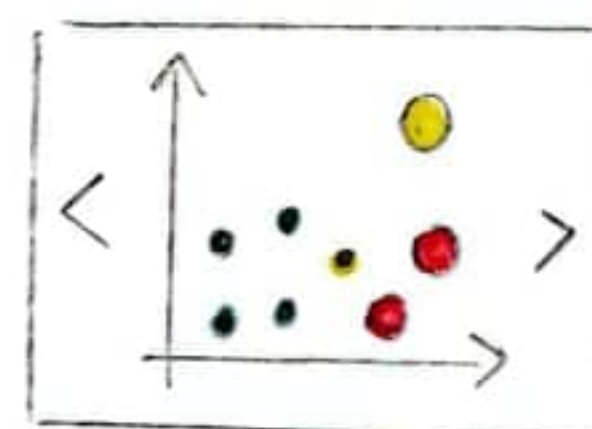
Able to navigate between 2 viz using arrow

Page 6:

Cereal Rice Apple Orange Corn Cabbage
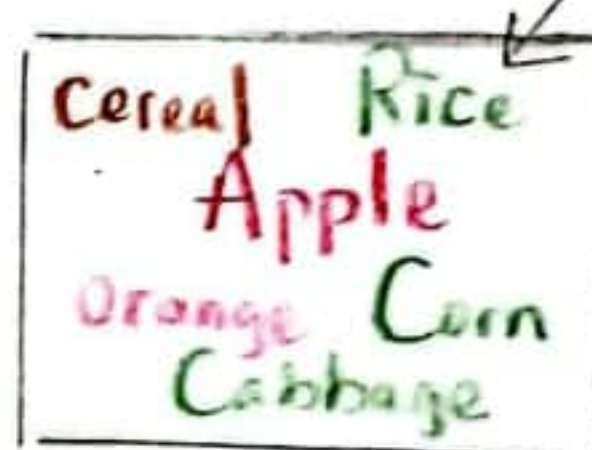
clickable & expandable to show more details

Focus

- User can choose to read horizontally or vertically

1	2	3
4	5	6
7	8	9

/

1	4	7
2	5	8
3	6	9

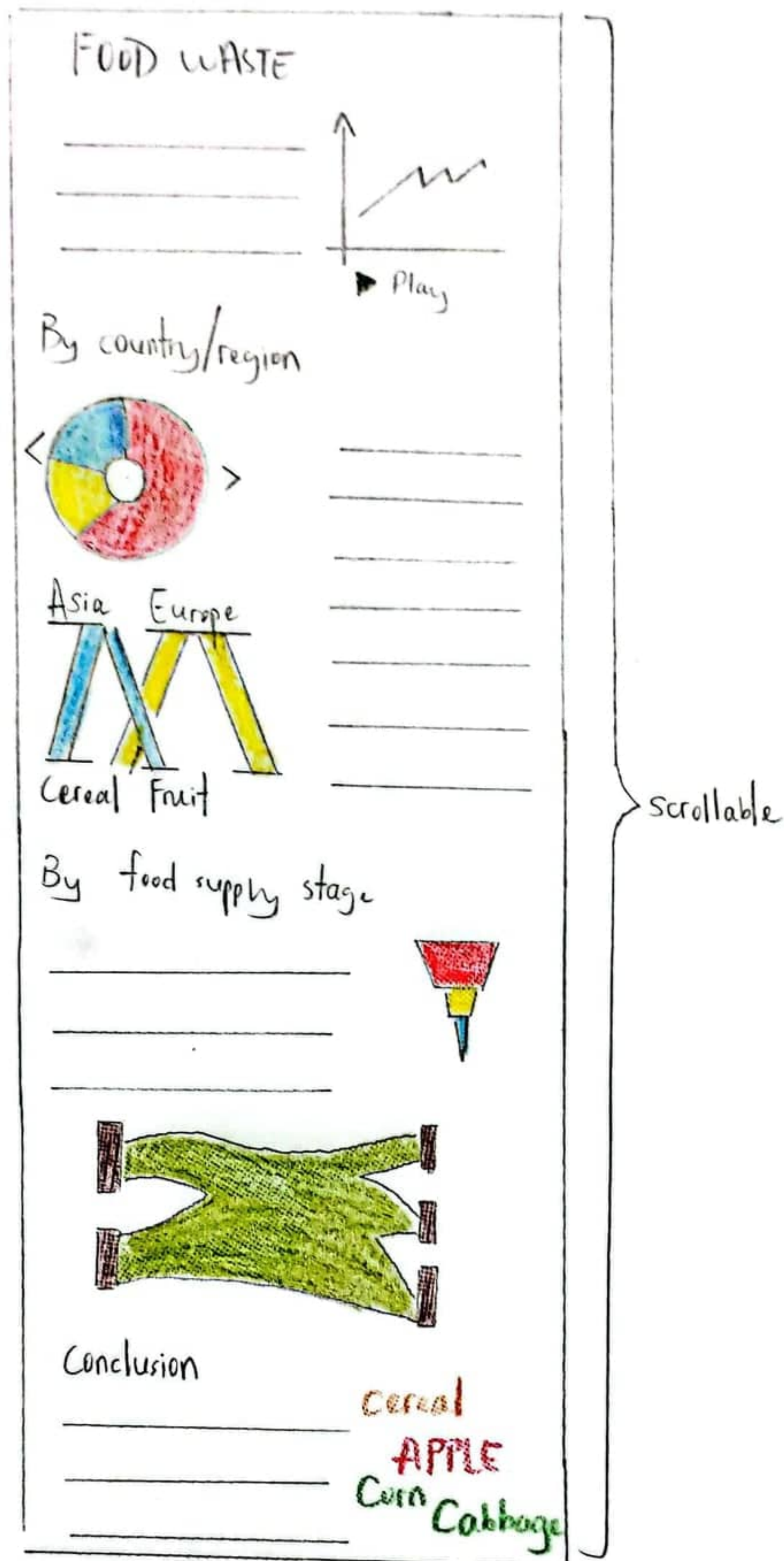by using button found on top of page

≡||| — vertical

| horizontal

DISCUSSIONS

- more space to show information

- introduction in 1st page does not show interesting visualization

- user might stop reading until pages that show interesting viz (parallel sets in pg 4)
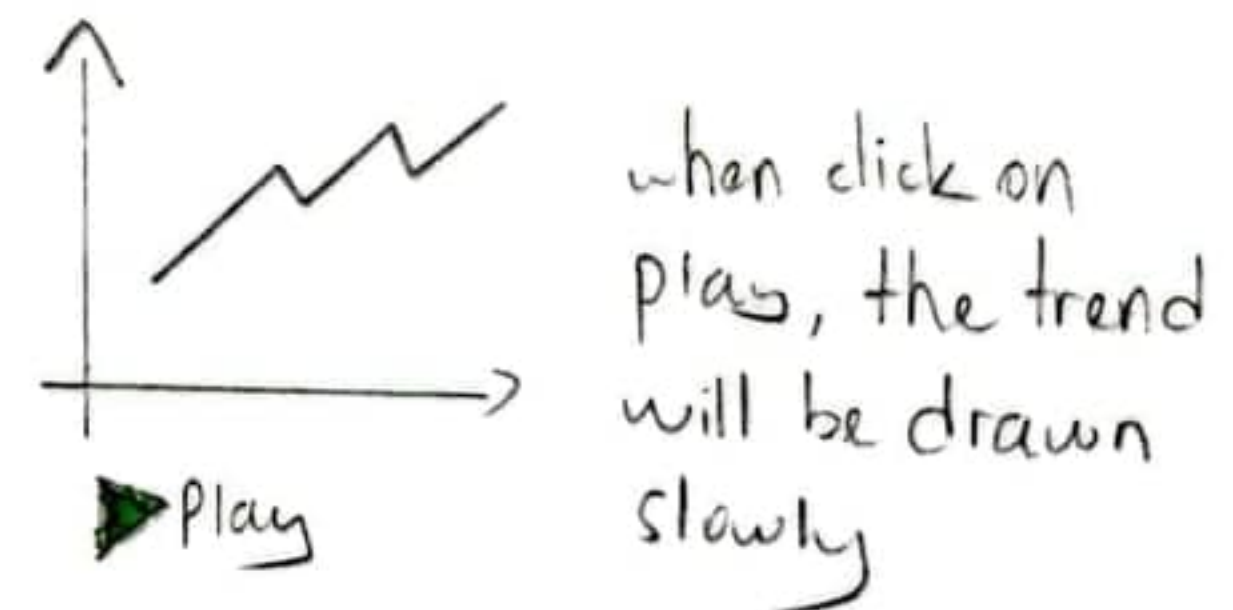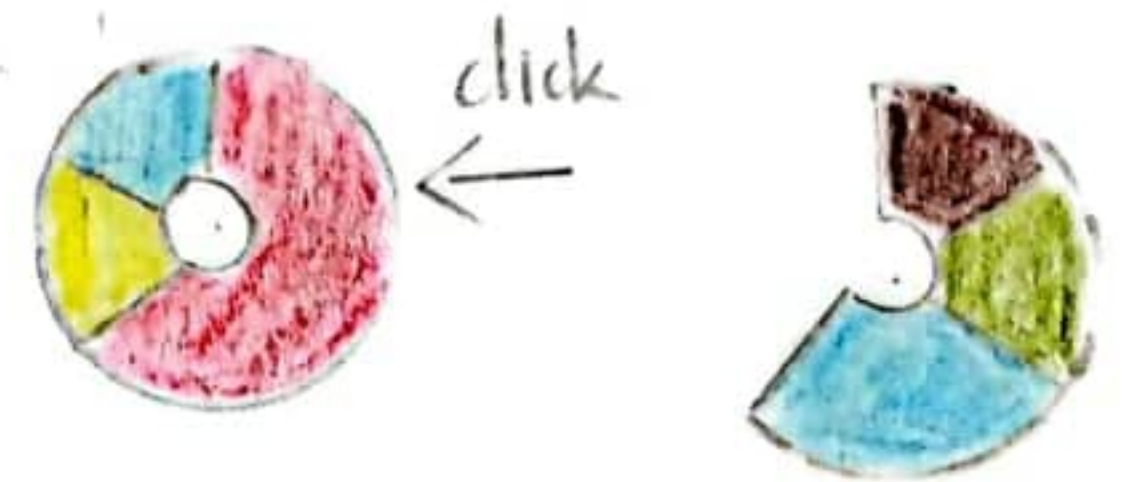
Layout

FOOD WASTE

_____
_____

Play

By country/region

< >

Asia Europe

Cereal Fruit

By food supply stage

Conclusion

Cereal
APPLE
Corn Cabbage

} Scrollable

OPERATION

click ←

when click on play, the trend will be drawn slowly

Play

DETAIL

- Dataset = Food Loss and waste Database by FAO + population/gdp
- Time to build / implementation = 1 week ~ 2 weeks
- Software = Tableau

Focus

- upper half of layout is focussed on parallel sets
- lower half of layout is focussed on alluvial chart
- scrollable

▲

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