

IDEASDOMAIN: ARTIFICIAL INTELLIGENCE

~~Geographic
Map
Measuring~~

POSSIBLE FIELDS OF ANALYSIS

AI- Prevalence

How do we portray
on a geo map?

Data center

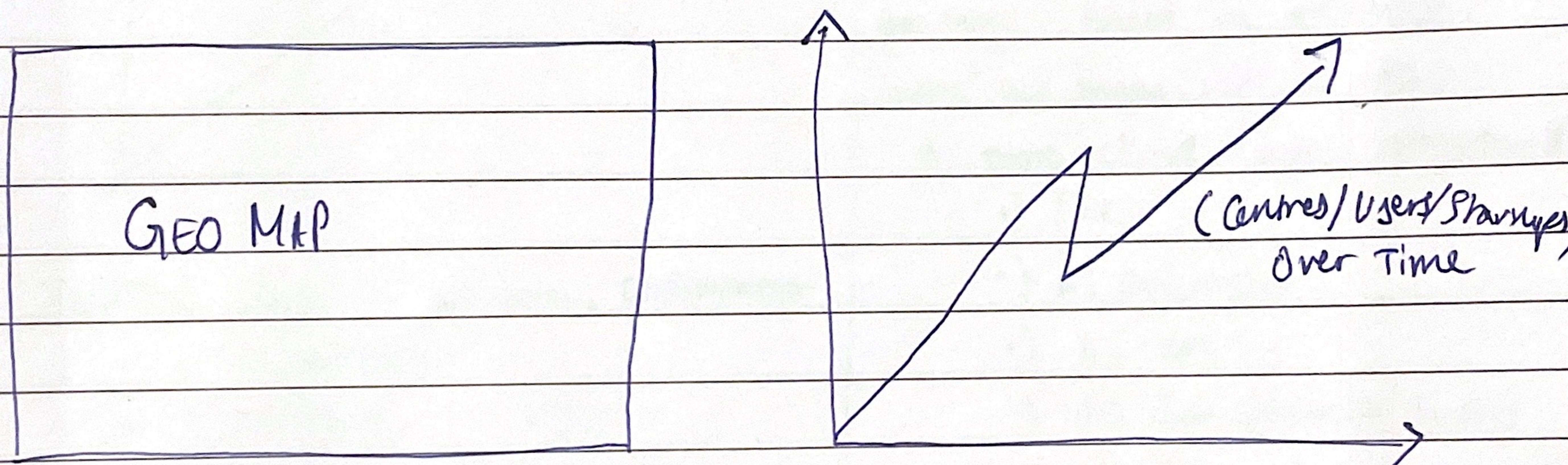
or Usage

or Investments/Startups

AI- Impact

Emissions by AI

(Environmental)



Dividing the infographic into
multiple sections:

-) AI Overview
-) Growth / Prevalence
-) Main analysis content
-) Conclusion

I have a general grasp of the domain I've chosen. The idea is to focus upon a wide variety of AI subtopics to tell a meaningful story.

FILTER

•) Research on data availability and double check the sources as it's a diluted field.

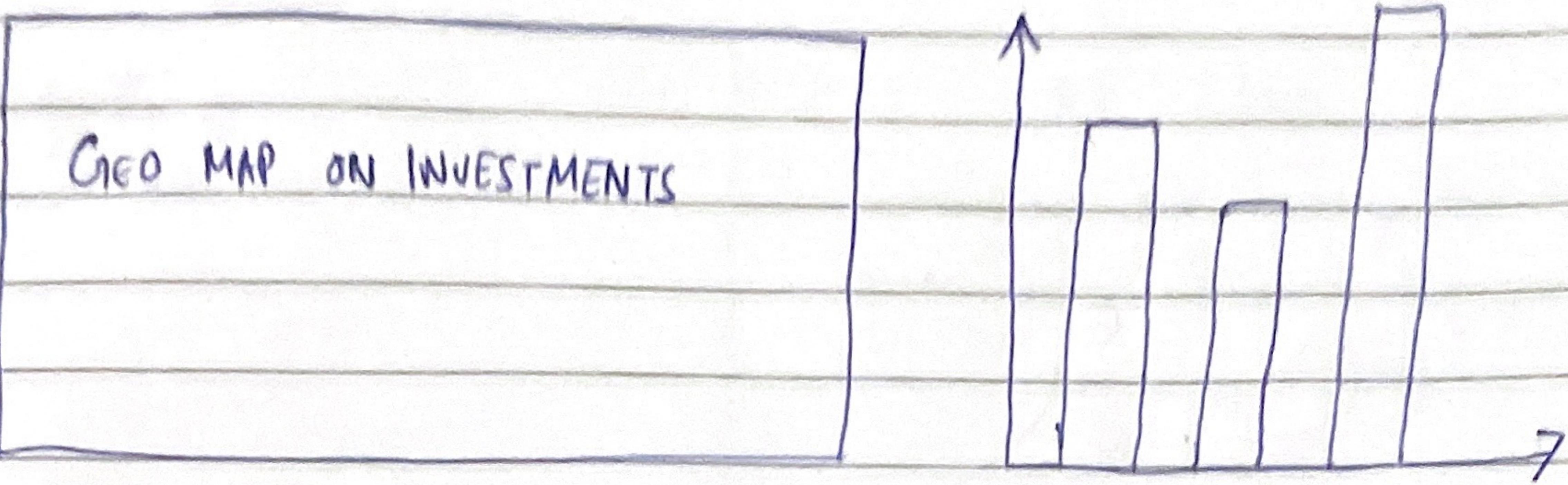
•) We can combine a few variables for geo map to ensure less clutter and not deviate from our analysis.

RENDITION 1

VIZ VO.1

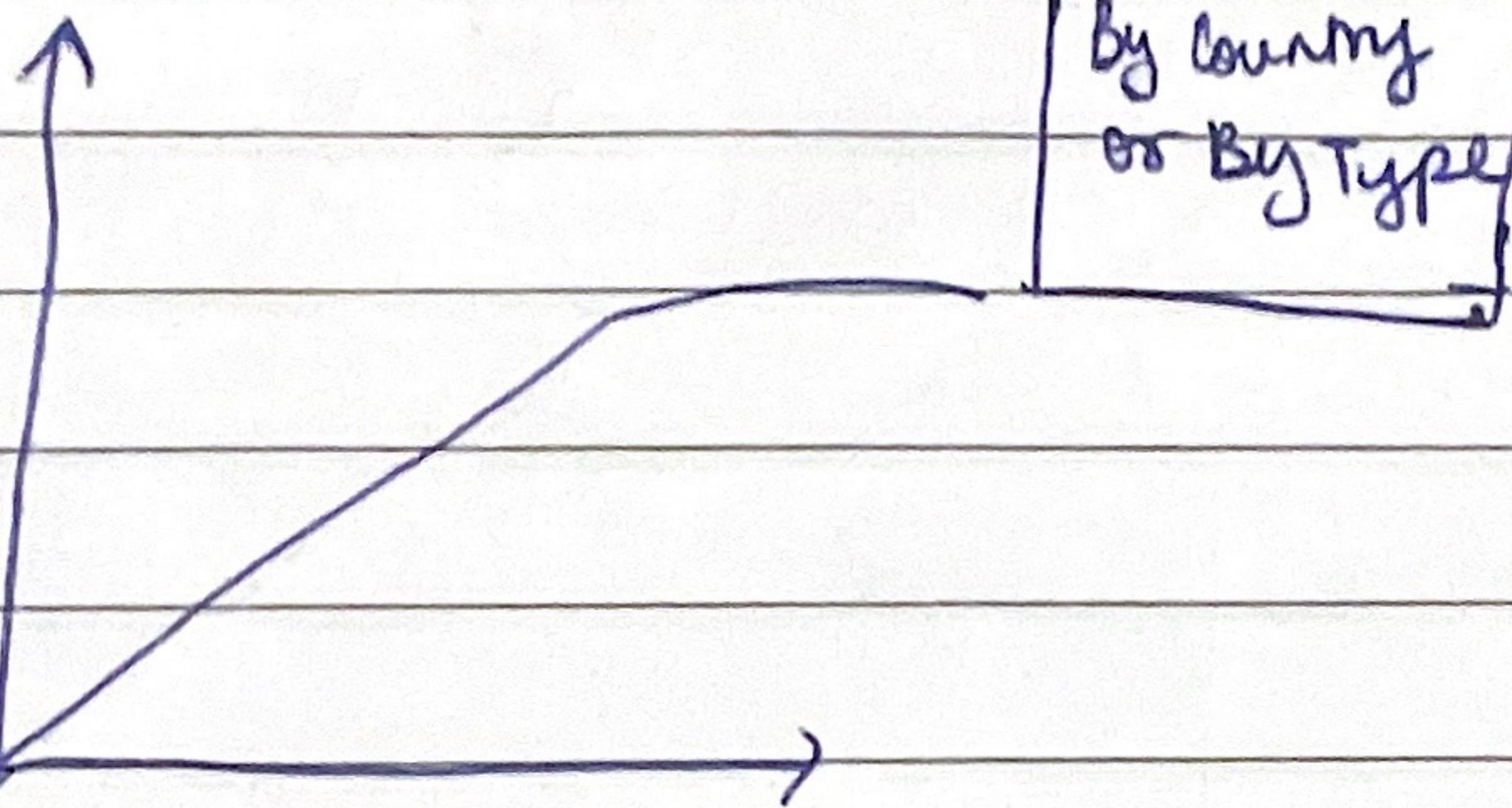
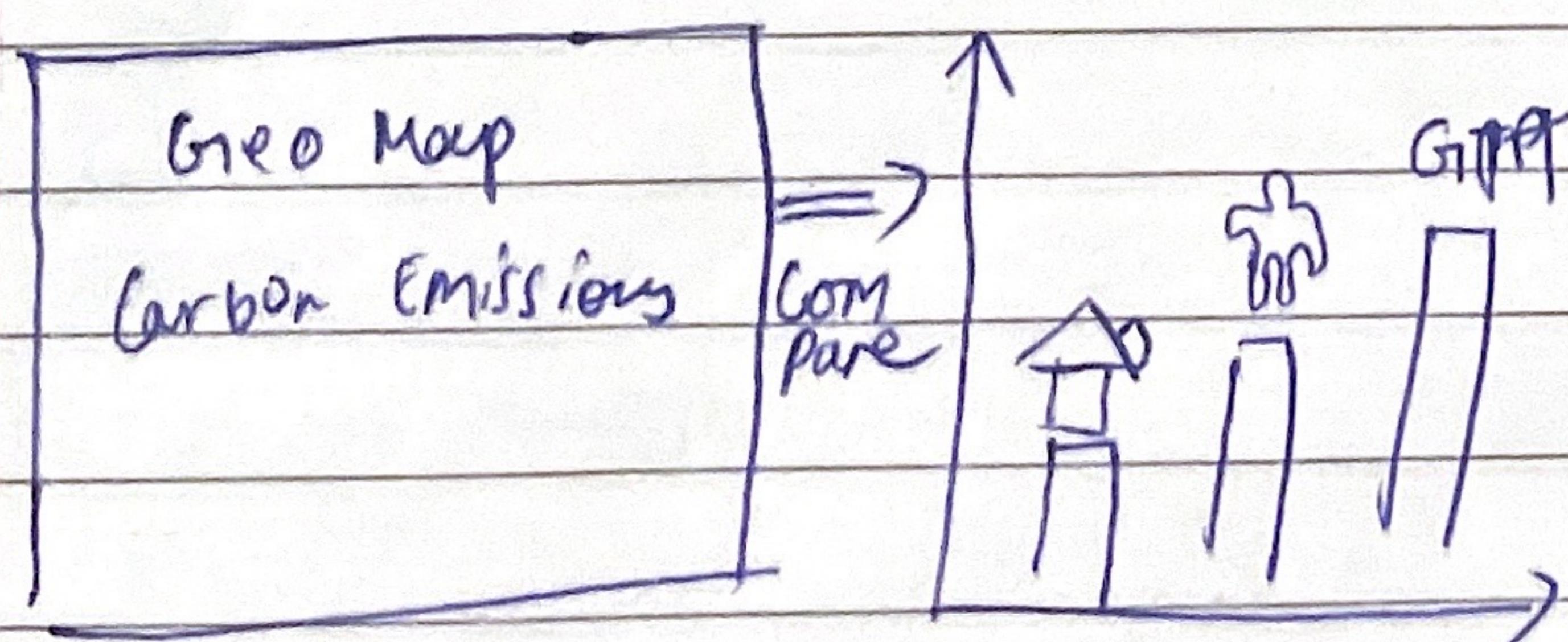
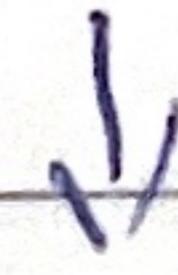
SHEET 2

Initial Layout



TEXT { Overview

Growth of AI

TEXT { Due to growth, environment
is affected.

TEXT { conclusion

Country Comparison

Overview

Investments chosen as the initial geo map. Based on our need, more geo maps will be added.

A more refined layout structure

-) Title
-) AI overview
-) AI growth
-) AI Environmental Impact
-) AI Public Perception
-) Conclusion

Functionality

Interactive Geomap where users can click on a country and view a more in depth visualisation and trend for their selected country.

RENDITION 2

VIZ 0.2

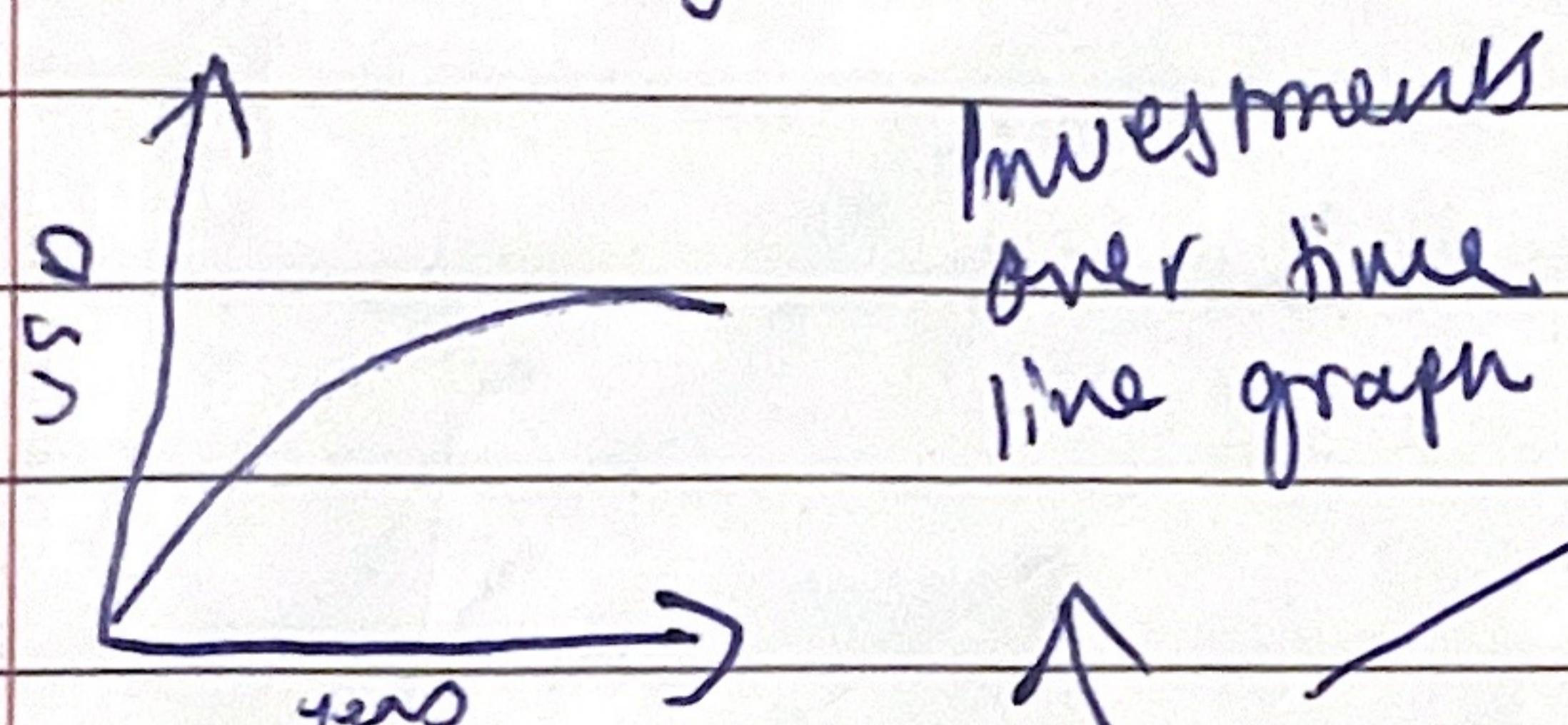
SHEET 3

Refining layout

Geo Map

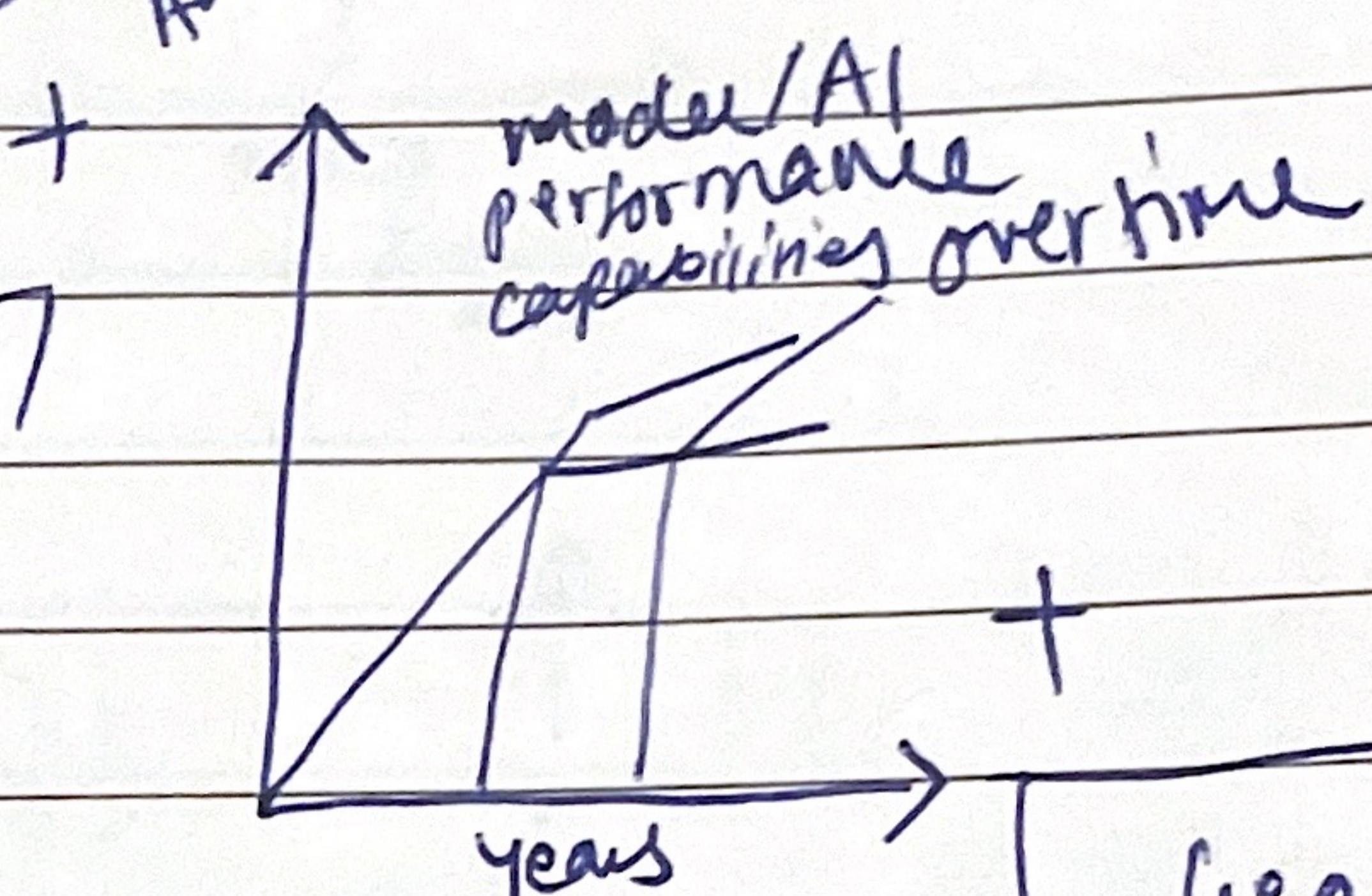
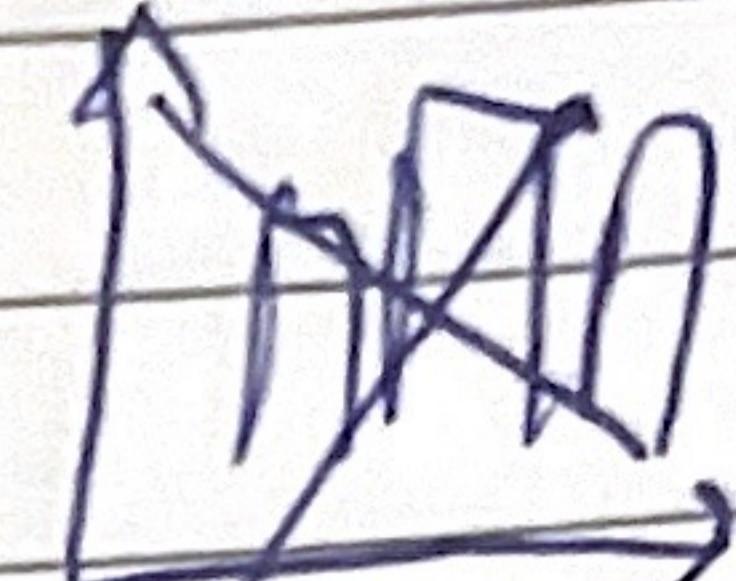
Investments over time

Slider for years



AJ Tidbits

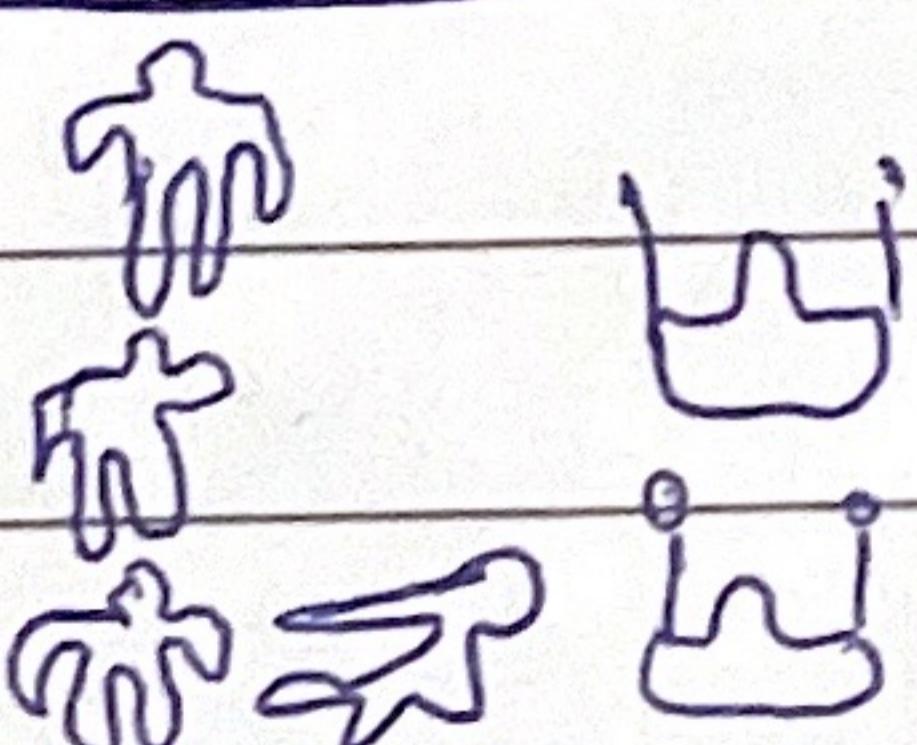
Basically our Intro, factuel numbers, followed by growth
more graphs



Geo Map on Patents

Geo Map

Carbon Emissions



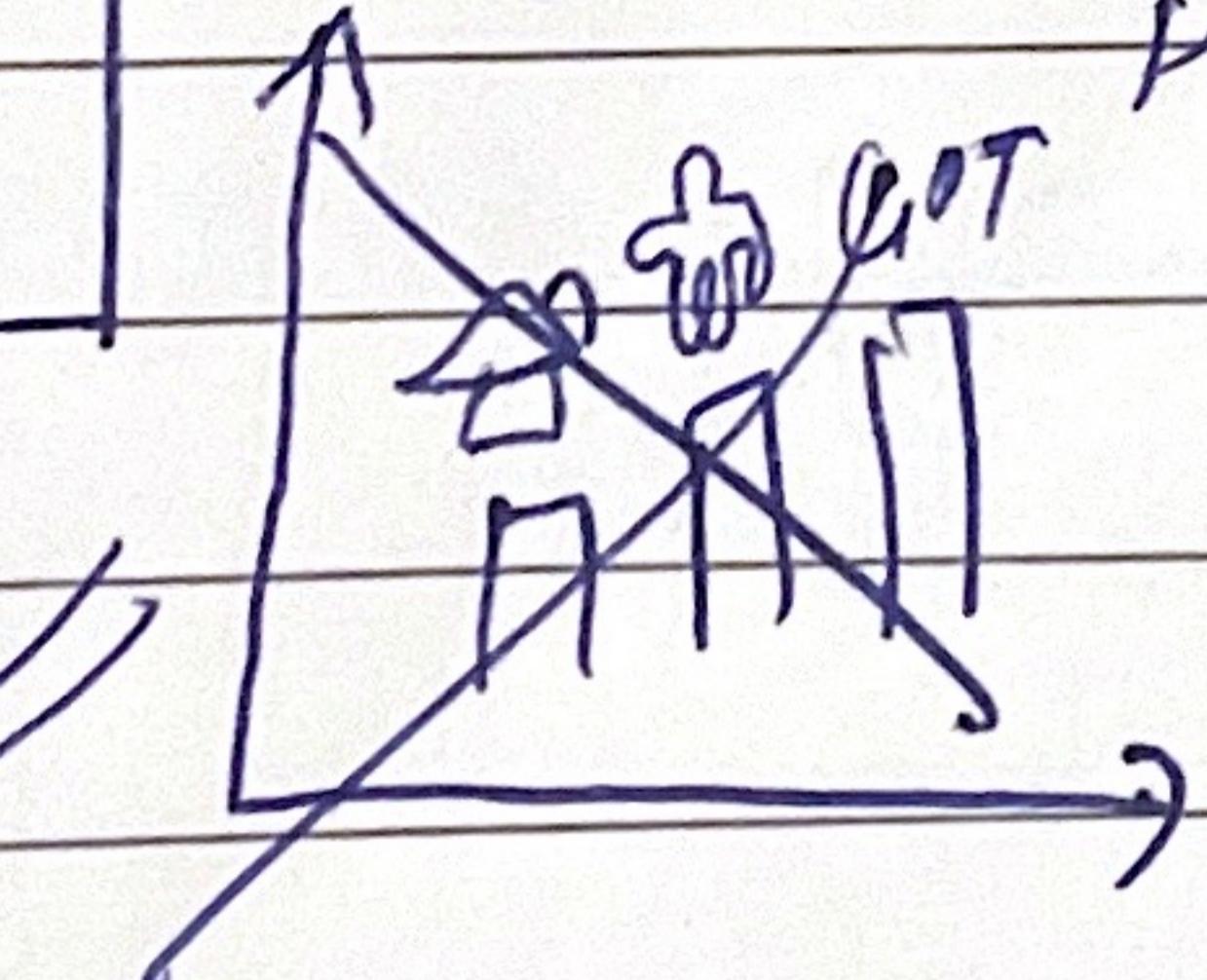
To denote emissions per ton
hard to come +
by, prone to bias

CORRELATE (TEXT)

More investments + More Research

Higher Performance Output

Functionality

Changes

- added AI tidbits as a

No need for public perception as the data differs
good visual way to initiate the infographic.

- Removed bars (Investments and Emissions)
- Added line (Investments) and isotype dot plot (Emissions) for a better and unique visualisation

Clicking a country

will change the line graph to show investments over time. Added slider to visually see the changes through colours

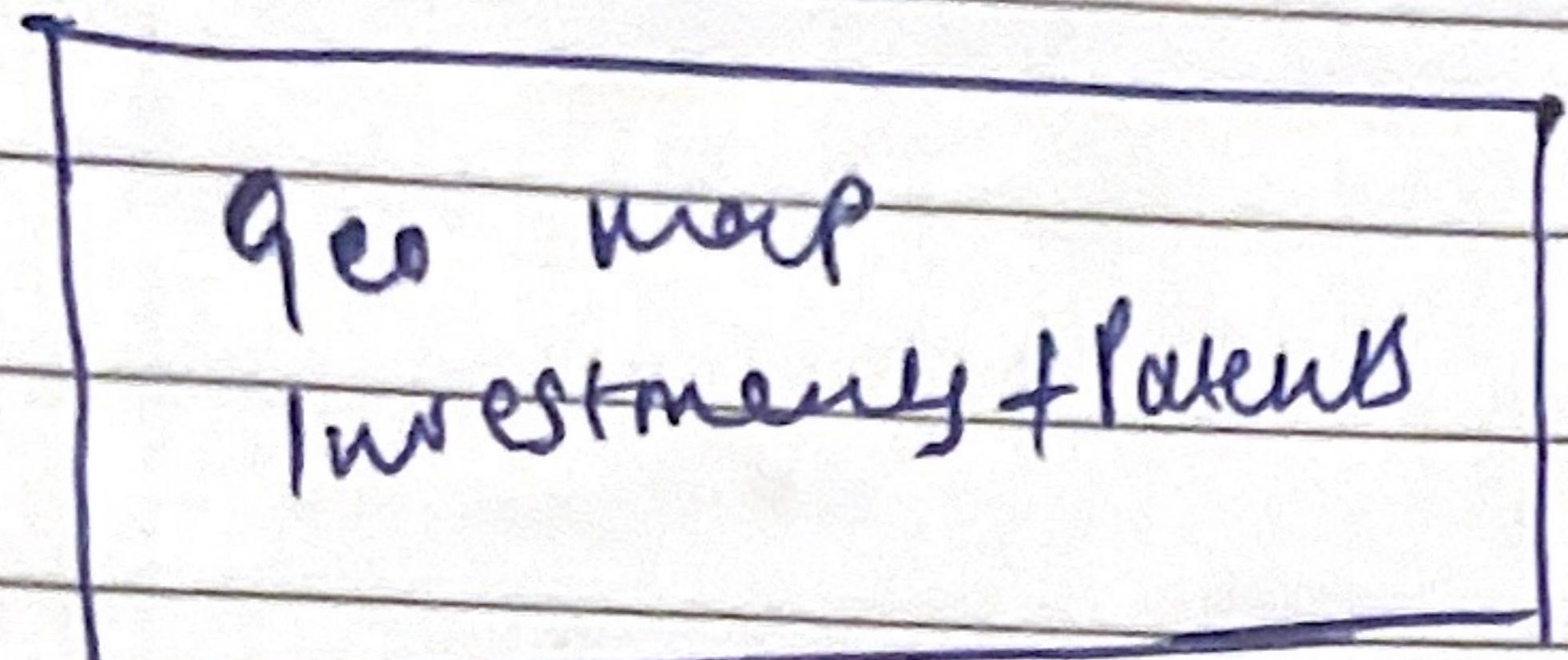
RENDITION 3

VIZ 0.3

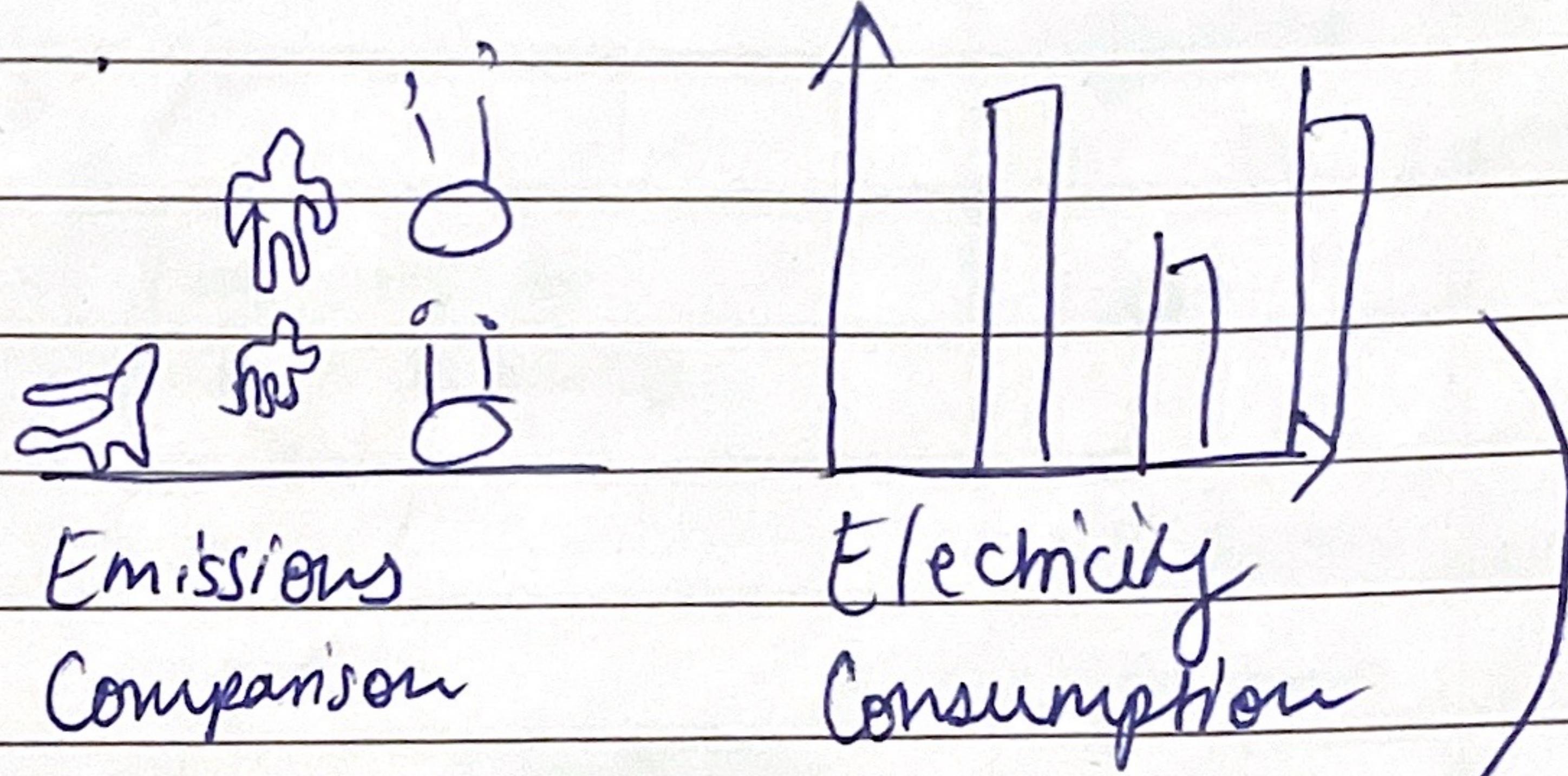
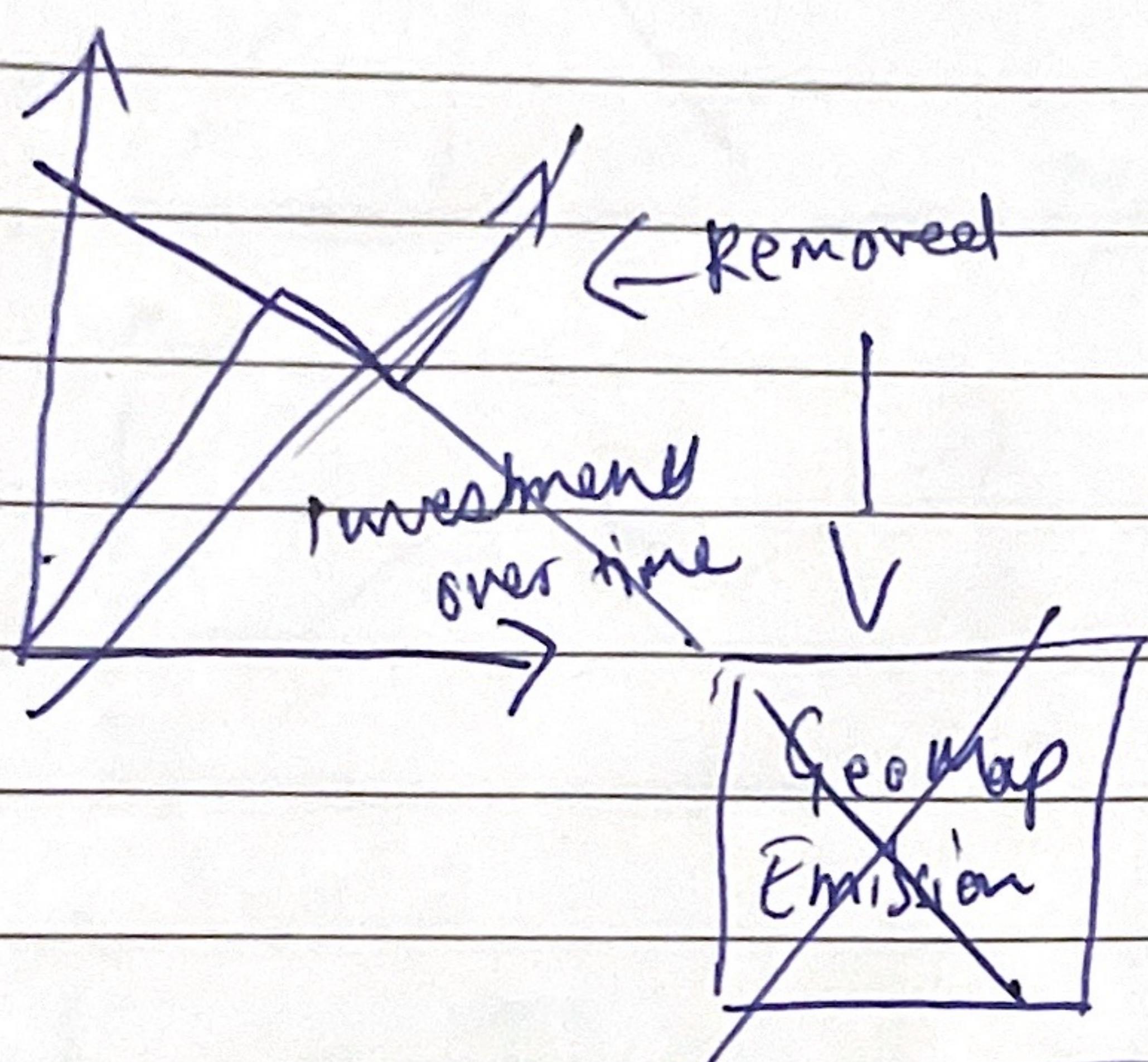
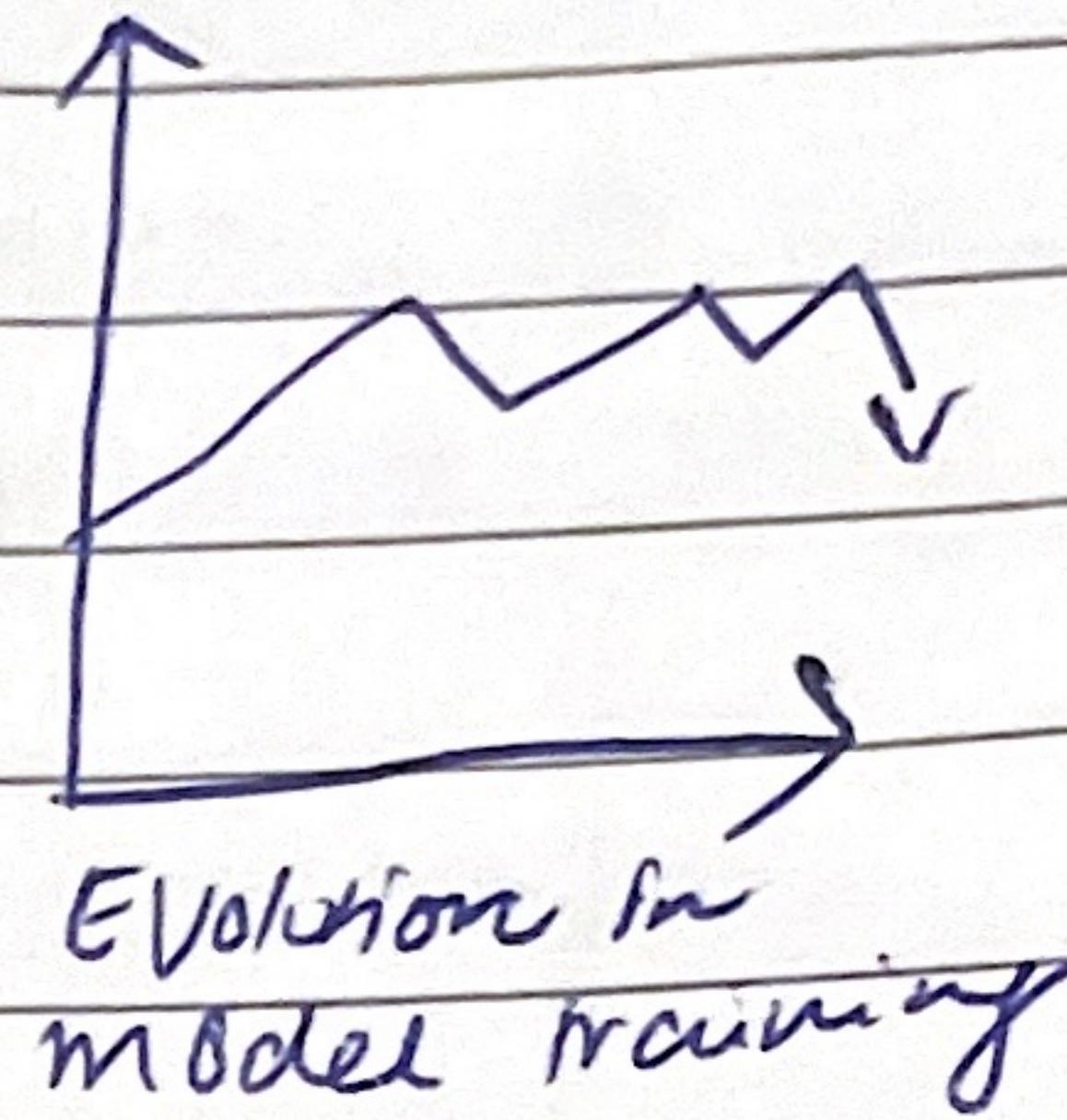
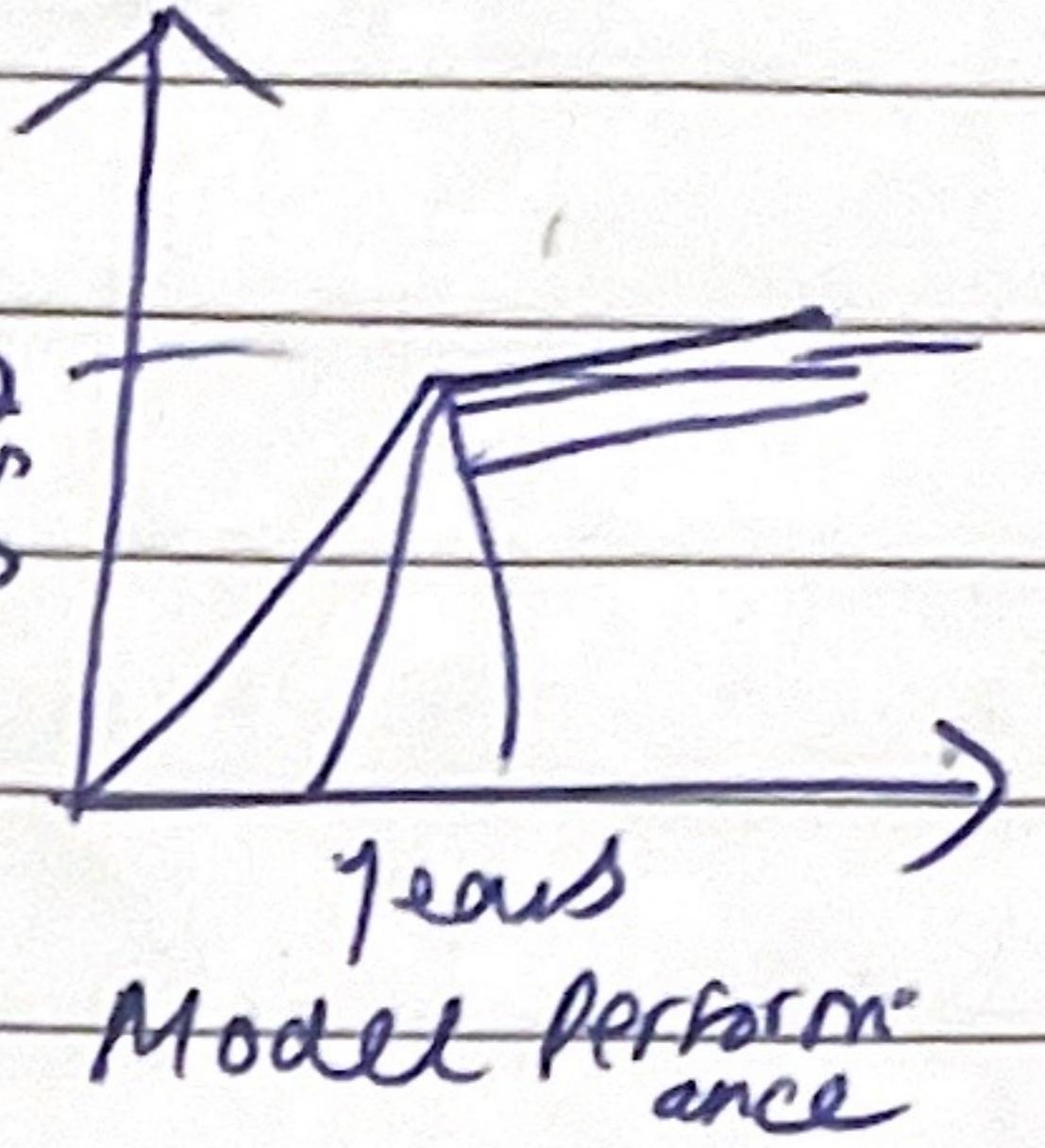
Sheet 4

Refining layout

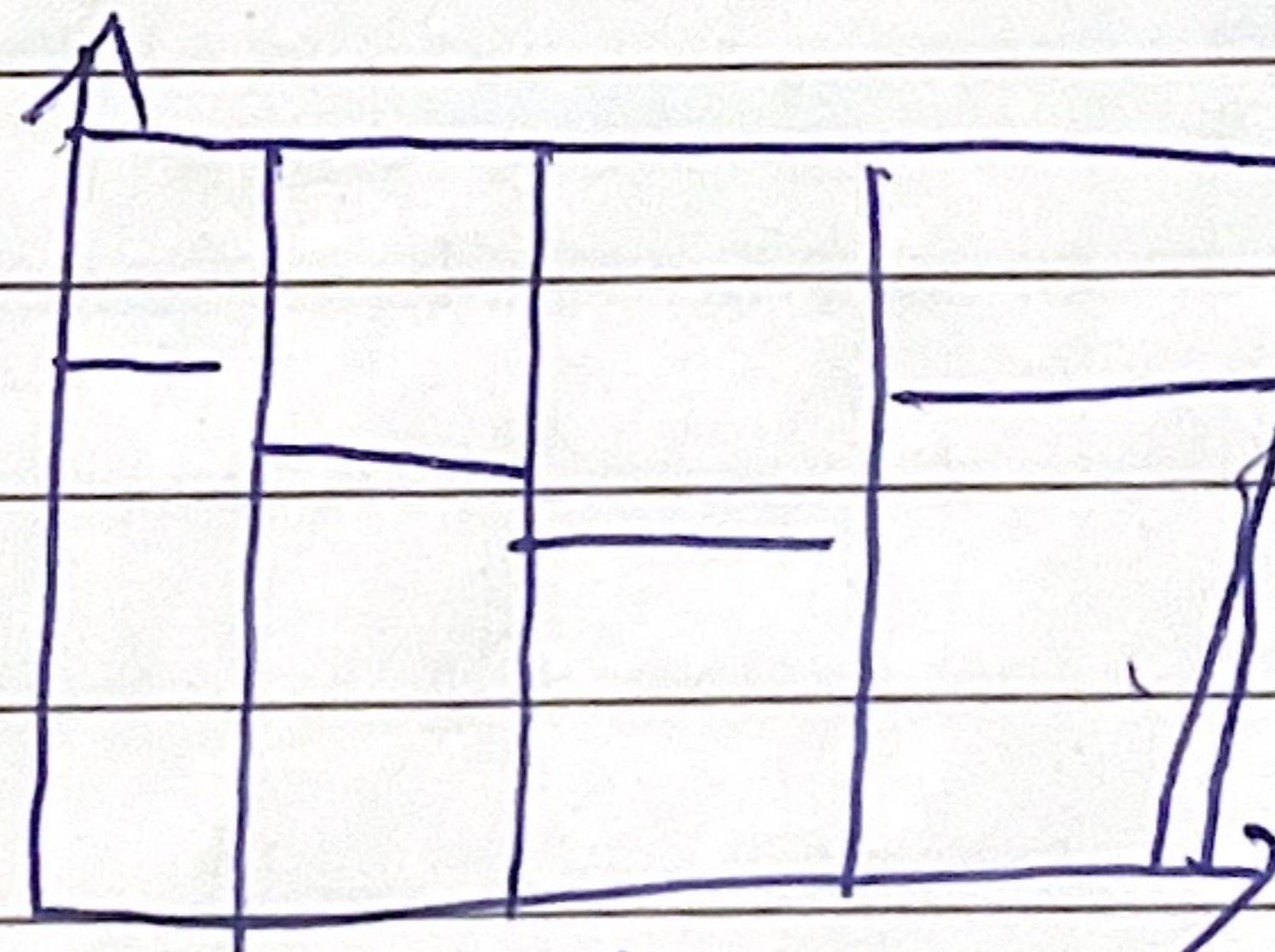
- < AI - TID BITS > -



AI Growth

Text about
Growth[] → Toggle
to switch
mapsFunctionality

- Retaining some from sheet 3

Stacked Bar
(Overshoot)Changes

- Removed line graph and geo map and with it goes the interaction

⇒ Removed line

(Redundant)

- Added a bar graph with thickness as a visual indicator.
- Added a stacked bar chart as a visual indicator

Discussion

Removing clutter from

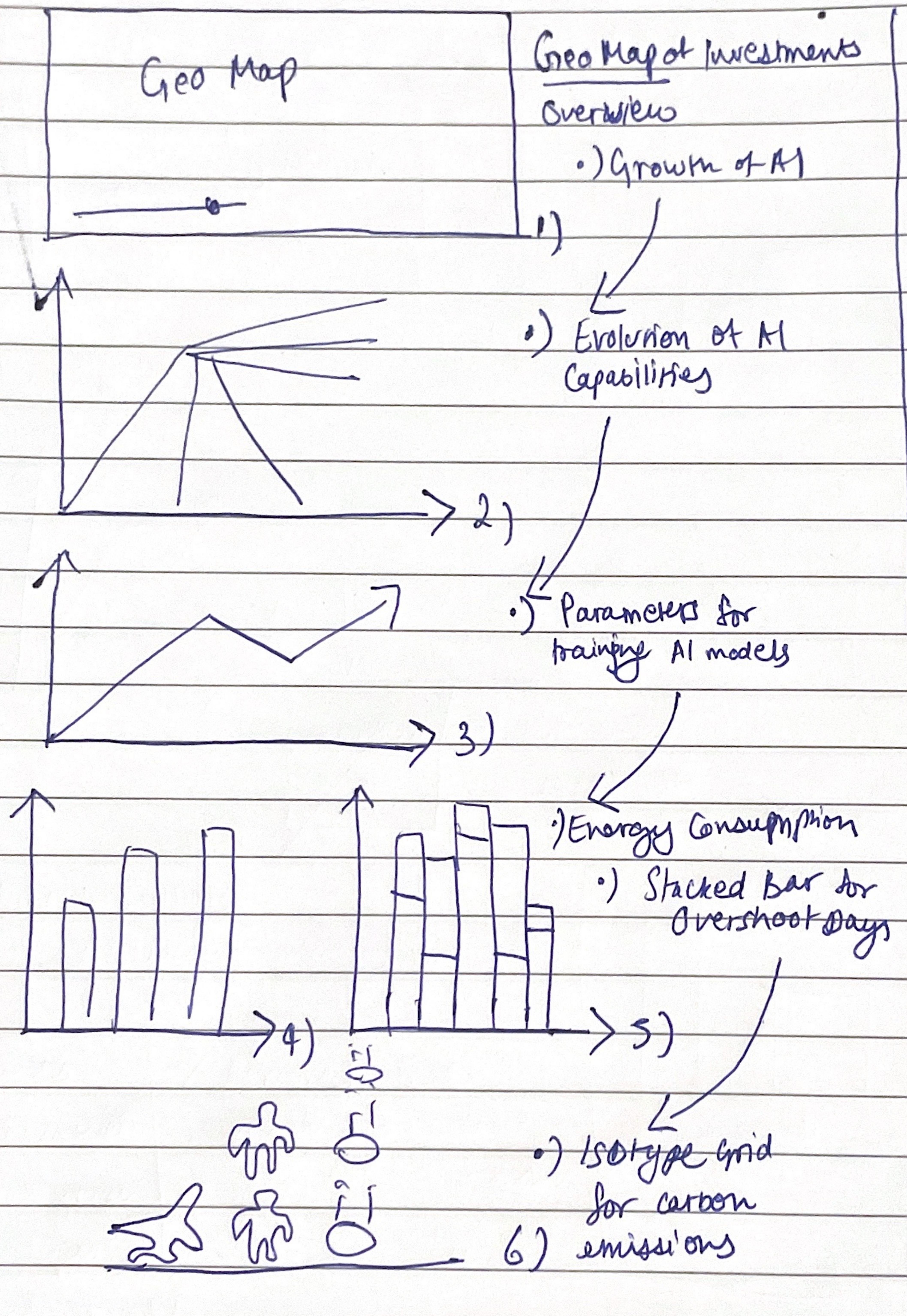
the viz is necessary.

The user should not be overwhelmed by the number of graphs. A need to accommodate analysis with the appropriate number of graphs.

RENDITION 4

VIZ 1.0 FINAL

Sheet 5
final layout



- Final Adjustments
-) Given a coherent structure for an appropriate story.
 -) User interaction consists of manually adjusting the slider for the desired year.
 -) Added further elements on environment to focus our research on the environmental impact.
 -) Reduced clutter by removing redundant charts (Parents)