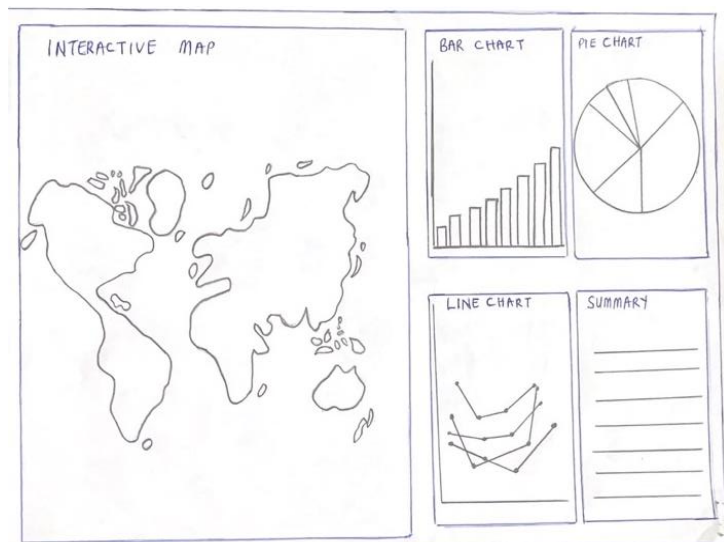


# Project #3

## Proposal: Global Connectivity Visualisations



**Team Members:** Khadra Chisimnulia, Kudzanai and Nathaniel

**GitHub Repository Link:** <https://github.com/khadra1/Project-3-Connectivity.git>

## Tell a Story with Data Visualisations

**Description:** We will collect data about Global internet usage and connectivity which we will then clean/wrangle, store in a database and visualise in different ways using the below requirements, datasets, visualization inspirations and sketch. Lastly, we'll deploy it to GitHub Pages.

**Data sources:** Our datasets will cover the following categories: Individuals using the internet, Fixed broadband subscription, Mobile Cellular subscription, Secure Internet Servers, Fixed telephone subscriptions and Internet usage around by age and sex, and by country and continent using these datasets and files:

- **Connectivity Datasets from ITU-D:** <https://www.itu.int/en/ITU-D/Statistics/Pages/facts/default.aspx>
- **World Bank Connectivity Data:** <https://data.worldbank.org/indicator/it.net.user.zs>
- **Countries Location Data:** [https://www.kaggle.com/datasets/parulpandey/world-coordinates?select=world\\_coordinates.csv](https://www.kaggle.com/datasets/parulpandey/world-coordinates?select=world_coordinates.csv)
- **Metadata screenshot:**

Code	Name	Long definition	Source	Topic	Periodicity	Aggregation method	Statistical concept and methodology	Development relevance	Limitations and exceptions	General comments	License URL
IT.NET.USER.ZS	Individuals using the internet (% of population)	Internet users are individuals who have used the internet (from any location) in the last 12 months. The internet can be used as a computer, mobile phone, personal digital assistant, games machine, digital TV or any other device.	ITU	Information and Communications Technology	Annual	Weighted average	Individuals using the internet (% of population)	Internet usage is a key indicator of a country's digital infrastructure and its potential for economic growth. It is also a key indicator of a country's digital divide.	Discrepancies may also arise in cases where the end of a fiscal year differs from that used by ITU, which is the end of December of every year. A number of countries have fiscal years that end in March or June of every year. Please cite the International Telecommunication Union for its ITU.NET.USER.ZS	ITU	ITU

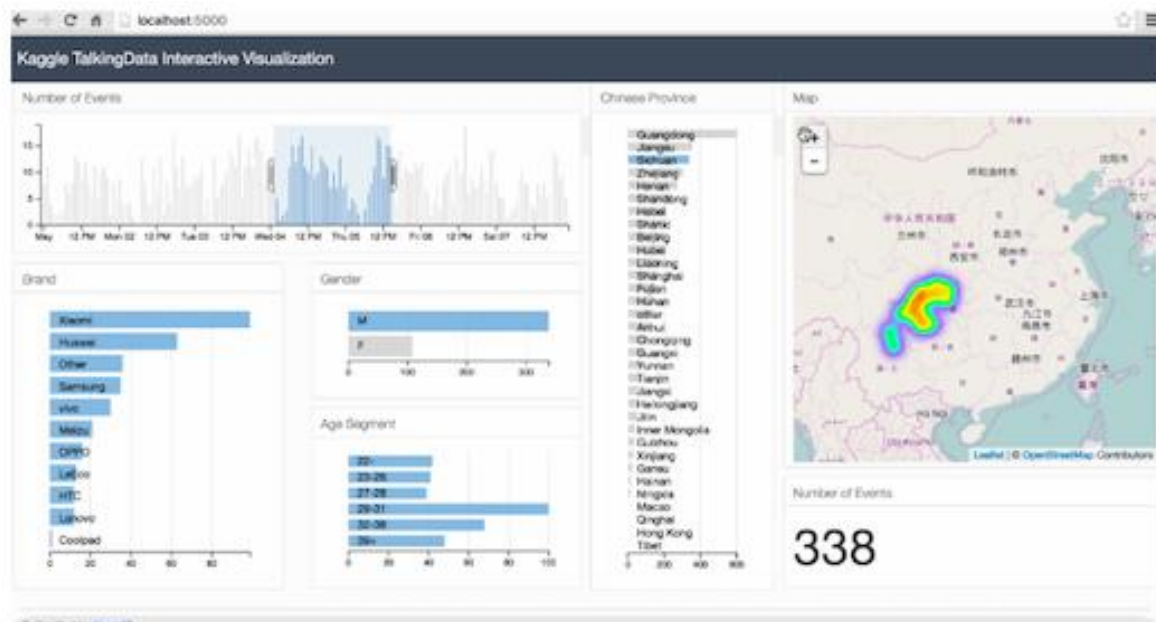
### Types of Visualisations:

- Interactive line graph visualising the increase of connectivity (mobile-internet vs home-internet vs landline over the years)
- Interactive Bar charts
- Pie charts (showcasing continents share of world internet usage)
- Interactive Maps

### Inspiration for our visualisation ideas:

- <https://ourworldindata.org/internet#mobile-phone-use>
- <https://www.kaggle.com/code/sharmavasundhara/analysing-internet-usage>

## Interactive Data Visualization of Geospatial Data using D3.js, DC.js, Leaflet.js and Python



- <http://adilmoujahid.com/posts/2016/08/interactive-data-visualization-geospatial-d3-dc-leaflet-python/>



- <https://medium.com/datalab-log/how-to-build-a-dashboard-prototype-using-leaflet-d3-js-and-python-1cfda38efbb5>