Exercise

Preparing Data for and Making Charts in Datawrapper

Summary

1. Module: Data Visualization[1]
2. Lesson: Matching Data and Graph Types
3. Sub-topic: Making Charts in Datawrapper
4. Objective: Preparing Data for and Making Charts in Datawrapper
5. Time Allotment: 60 minutes

Steps

Imagine we are providing information for an MP who serves in the National Assembly of Cambodia. We will make charts based on the Cambodia hydropower dataset for the following user stories:

1. As an MP, I want to know how much of planned and operational hydropower production is coming from large, medium or small scale plants, so that I can determine how sustainable the future development projects in the country will be.
2. As an MP I want to know how much of the planned hydropower production is going to come from my province so that I know how much my province will be contributing to the country's electricity needs.
3. As an MP I want to know how much of the planned hydropower production from my province is going to be coming from small, medium or large scale projects so that I know how much of my province's resources will be used for national electrification.
4. As an MP I want to know which countries are funding the development of hydropower projects so I can see how many of the projects rely on foreign investment.

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[1] This lesson was adapted from the World Bank's Introduction to Data Literacy training manual by Eva Constantaras, and adapted by Yan Naung Oak, Open Development Cambodia and Open Development Initiative, and is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License. For full terms of use, see here.

5. As an MP I want to know how much total hydropower capacity will be developed each year in the coming decades so that I will be able to plan for development projects with my colleagues in the ministries

The original data is from the [Hydropower Dams in Cambodia dataset](#) from Open Development Cambodia. We have prepared a more ready to use version of this dataset and it has been uploaded to Google Sheets here

We will walk through how to make each of the following charts step by step starting from the [cleaned dataset of the hydropower projects](#).

- Projects by size scale: https://www.datawrapper.de/_/XNuBd/
- Capacity by province: https://www.datawrapper.de/_/jt7kc/
- Scale size by province: https://www.datawrapper.de/_/x7ngo/
- Projects by country of investment: https://www.datawrapper.de/_/bejwk/
- Time series of total capacity: https://www.datawrapper.de/_/mRnYA/

Further Practice

1. Think of other user stories for this dataset and try to create a different type of chart for that user story.
2. Try to make drafts of the charts that you have sketched for your project using Datawrapper.