Activity 1: Identify Flood Extent, Contaminated Water, and Impacted Population

Task: Identify Flood Extent, Contaminated Water, and Impacted Population Demographics
Source:
- What are the relevant factors?
  - Elevation of the Area (DEM) - How can you obtain this data from EO data?
  - Population characteristics
    - Age
    - Comorbidities
  - Flood Extent
  - Where are water treatment facilities?
- Where are they coming from?

Transformation:
- How can you combine to relevant factors to identify
  - Flood Extent
  - Area Impacted by contaminated water / no access to potable water
  - Who are the most vulnerable populations?

Output:
- What does the output mean?
- Who and how could use the output?
- What is the best way to display the output?

To get you started:

https://www.jadelearning.com/blog/mitigating-flooding-impacts-on-drinking-water-treatment-systems/

https://www.epa.gov/sites/default/files/2017-06/documents/004_drinking_water_advisory_-_vulnerable.pdf

https://link.springer.com/article/10.1007/s13753-021-00377-z