

Activity 1: [Uganda Ebola Outbreak, September 2022](#) [| Ebola \(Ebola Virus Disease\) | CDC](#)

Task: Come up with a transmission risk index that quantifies the risk of transmission in an area.

Source:

- What are the relevant factors?
- Where are they coming from?

Transformation:

- What combination of factors quantifies risk?
- How do the factors relate?
- Weights?

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:

[2014-2016 Ebola Outbreak in West Africa | History | Ebola \(Ebola Virus Disease\) | CDC](#)

[2014 Ebola Outbreak in Democratic Republic of the Congo | Democratic Republic of Congo | Outbreaks | Ebola \(Ebola Virus Disease\) | CDC](#)

Activity 2: [Early Season Heat Waves Strike India \(nasa.gov\)](https://www.nasa.gov)

Task: Come up with an index that quantifies the risk of mortality from heat waves.

Source:

- What are the relevant factors?
 - Regions previously affected by heat waves
 - Population characteristics
 - Age
 - Comorbidities
 - Housing characteristics
 - AC
 - Urban characteristics
 - vulnerability
- Where are they coming from?

Transformation:

- What combination of factors quantifies risk?
- How do the factors relate?
- Weights?

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:

[Heat-related mortality in India: excess all-cause mortality associated with the 2010 Ahmedabad heat wave - PubMed \(nih.gov\)](https://pubmed.ncbi.nlm.nih.gov/21481411/)

[IJERPH | Free Full-Text | Mortality during a Large-Scale Heat Wave by Place, Demographic Group, Internal and External Causes of Death, and Building Climate Zone \(mdpi.com\)](https://www.mdpi.com/1422-0067/19/11/3541)