## Research Question

1. Identify stereotypical groups of people from our behavioral survey data
   1. study how each group impacts the epidemic

In detail, we have access to this representative survey in Denmark, where each person answers a bunch of questions from their voting behavior to their perception of and behavior during the pandemic (check out the interactive time series attached).

The first step is to cluster people into characteristic groups (latent factor model, deep auto-encoder, PCR... )

1. Evaluate how they impact the epidemic (semi-mechanistic epidemic model - potentially with neural network component).

## Structure

Title: What types of (human) groups drive the pandemic?

1. Clustering - identify stereotypical groups
   1. Data Preprocessing
   2. Data Exploration
   3. Apply clustering algorithms such as (k-NN, k-Means)
   4. Analyse cluster
   5. Find demographic/socio-economic descriptions of the clusters
2. SIR-Model + ML?
3. (Visuals?)