**Problem Statement:**

The goal of the hackathon will be to collect and curate worldwide open data and to refine, transform, and link that data to provide a visualization regarding the impact of COVID-19.

We will look at two themes:

1. Overall understanding of the efforts to flatten the curve
2. Economic recovery, especially for Alberta and Canada

This is about providing a better understanding of the story, through data.

**Solution Statement:**

As COVID-19 continues to infect people across the globe, countries are in a race to contain the spread to a manageable level through social distancing measures before the development and implementation of a vaccine; however, currently there is no dashboard focussing on vaccination efforts. Our dashboard intends to educate the public on the state of vaccinations being developed and provide a simulation on how vaccine rollout will impact future infection rates.

**Data We Need (and why):**

1. Vaccination trials
   1. Required for education and to provide a likely timeline for implementation
2. Infection rates in essential service workers and the general public
   1. Required for simulation highlighting infection rate based on occupation (essential vs non-essential)
   2. General infection rate data, too many variables to consider if we go down this road by factors such as age, income, ect.
3. Historic vaccination rollout data
   1. i.e. smallpox, SARS?
4. Herd immunity number (a reference)
5. Data on vaccination manufacturing/rollout
   1. i.e. speed so we know how many people can be protected within a timeline

**Task List:**

**John**

* Find csv data for the above list
* Examine PowerBI as a tool (Chartio cannot be used as originally planned)
* Research infection rate modelling

**Ella**

* Summarize the vaccination process
* Vaccination trial list
* 1st pass at dashboard outline

**Henry**

* Coding tools to pull csv data into analysis algorithms
* Research infection rate modelling