CONTEDE C

COVID-19 MODELING EXERCISE

A "HOW TO" calculate Rt GUIDE with EpiEstim





CONDEDE

Calculation of Rt with **EpiEstim**

→ Go to https://harvardanalytics.shinyapps.io/covid19/



CONDE

29/02/2020 01/03/2020 5 02/03/2020 6 03/03/2020 7 04/03/2020 8 05/03/2020 9 06/03/2020 10 07/03/2020 0 11 08/03/2020 12 09/03/2020 0 13 10/03/2020 14 11/03/2020 15 12/03/2020 16 13/03/2020 1 17 14/03/2020 14 15 18 15/03/2020 19 16/03/2020 12 20 17/03/2020 29 21 18/03/2020 11 22 19/03/2020 25 23 20/03/2020 46 0 24 21/03/2020 0 25 22/03/2020 26 23/03/2020 87 27 24/03/2020 119 0 28 25/03/2020 108 29 26/03/2020 30 27/03/2020 0 31 28/03/2020 111 32 29/03/2020 128 33 30/03/2020 131 34 31/03/2020 145 101 35 01/04/2020

 Prepare the data of incidence per day for the region/area/country of study in 2 columns: "dates" and "I";

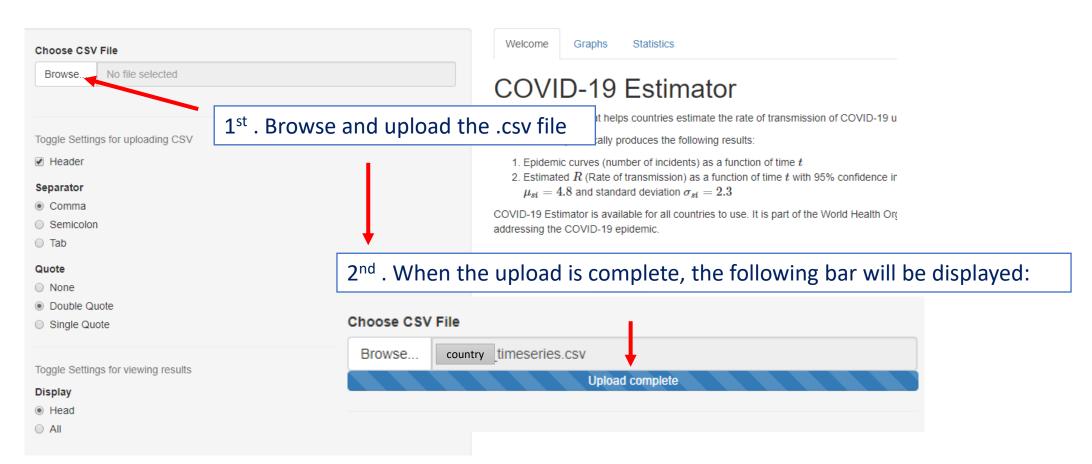
2. Save the file under a .csv format.

Step 1:

Prepare the region/area/country daily incidence in a <u>.csv file</u>







Step 2:

Upload csv file

CONDE



Step 3:

Check "welcome" tabs



This is an interface that helps countries estimate the rate of

This interface dynamically produces the following results:

- 1. Epidemic curves (number of incidents) as a function $\mathfrak c$ 2. Estimated R (Rate of transmission) as a function of ti
- f. Estimated R (Rate of transmission) as a function of $\mu_{si}=4.8$ and standard deviation $\sigma_{si}=2.3$

COVID-19 Estimator is available for all countries to use. It is addressing the COVID-19 epidemic.

Getting Started

To begin, simply click Browse... and upload a CSV file (co

Note that the CSV must contain dates in the first column and format can been downloaded below.

▲ Download Sample COVID-19 CSV File

Uploaded File

dates	- 1
28/02/2020	2
29/02/2020	0

The "welcome" tab will display the assumptions and the sample uploaded



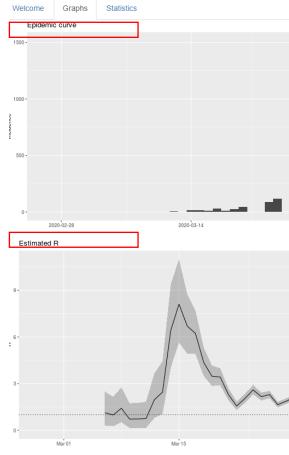






COVID-19 Estimator

In the "graphs" tab the Epicurve and the plot of the Rt fluctuation will be displayed



Step 4:

Check "graphs" tabs



CONDEC

Welcome Graphs Statistics

COVID-19 Estimator

- In the "statistics" tab the Rt will be displayed.
- This is the number you need to use of the CovidSIM projections



t_start	t_end	Mean(R)	Std(R)	Quantile.0.025(R)
2.00	8.00	1.13	0.57	0.31
3.00	9.00	0.98	0.49	0.27
4.00	10.00	1.41	0.58	0.52
5.00	11.00	0.72	0.42	0.15
6.00	12.00	0.73	0.42	0.15
7.00	13.00	0.76	0.44	0.16

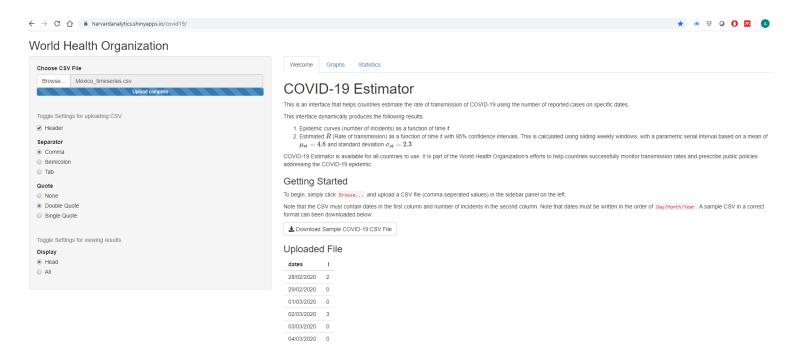
▲ Download Summary Statistics of Transmission Rates

Step 5

Check "statistics" tabs







Thank you



