COVID-19 MODELING EXERCISE

A "HOW TO" calculate Rt GUIDE with EpiEstim

Calculation of Rt with ***EpiEstim***

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

	A	B
1	dates	I
2	28/02/2020	2
3	29/02/2020	0
4	01/03/2020	0
5	02/03/2020	3
6	03/03/2020	0
7	04/03/2020	0
8	05/03/2020	0
9	06/03/2020	0
10	07/03/2020	0
11	08/03/2020	2
12	09/03/2020	0
13	10/03/2020	0
14	11/03/2020	0
15	12/03/2020	4
16	13/03/2020	1
17	14/03/2020	14
18	15/03/2020	15
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
24	21/03/2020	0
25	22/03/2020	0
26	23/03/2020	87
27	24/03/2020	119
28	25/03/2020	0
29	26/03/2020	108
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
35	01/04/2020	101

Step 1:

1. 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.

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

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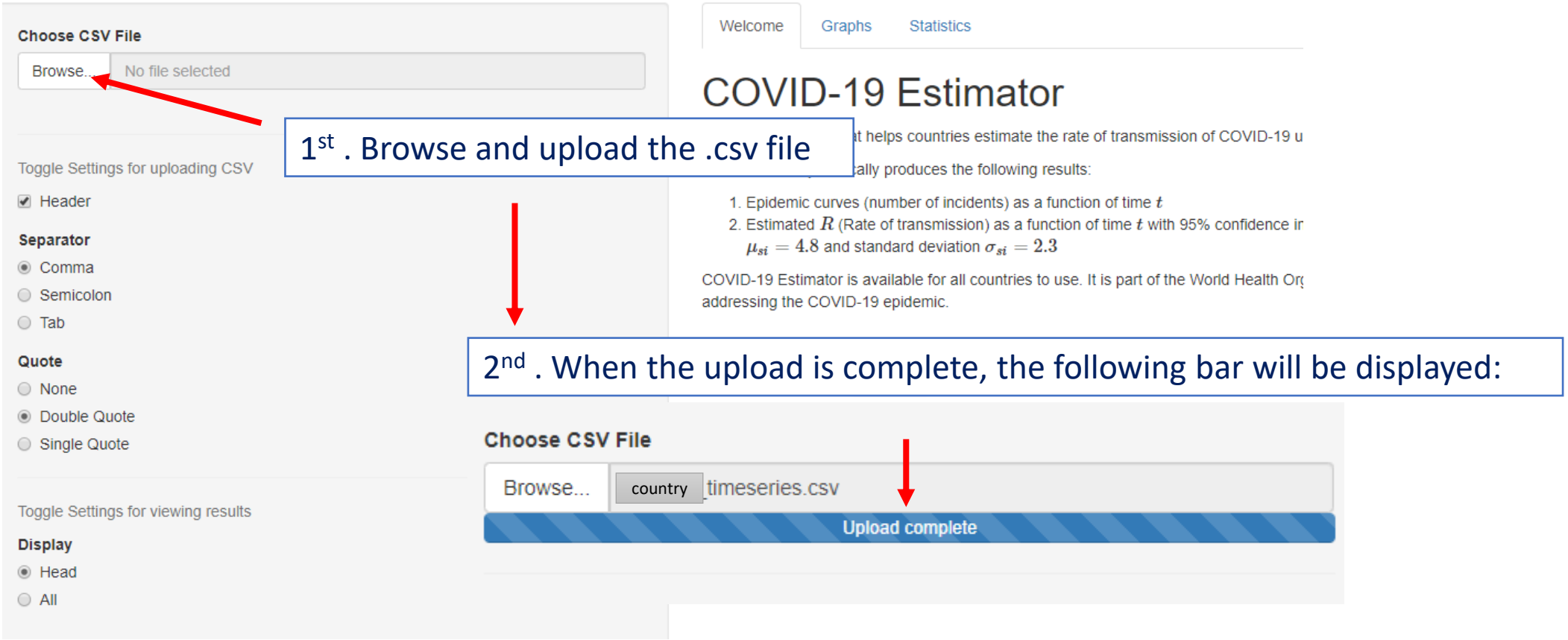
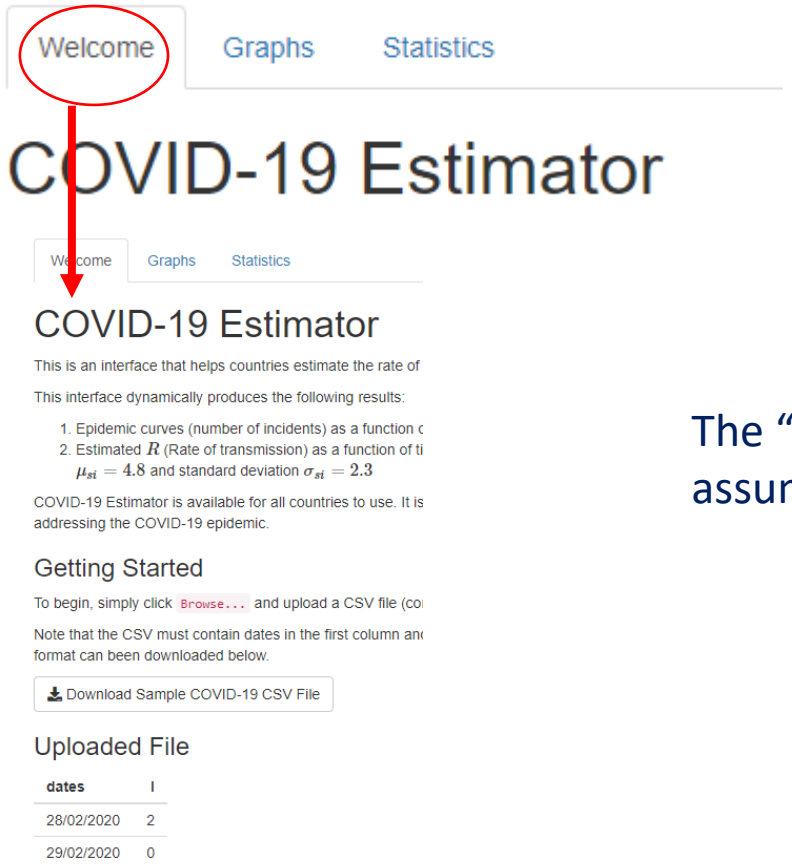
Step 2:

Upload csv file

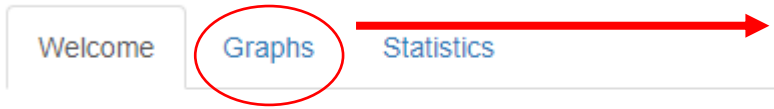


Step 3:

Check "welcome" tabs



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



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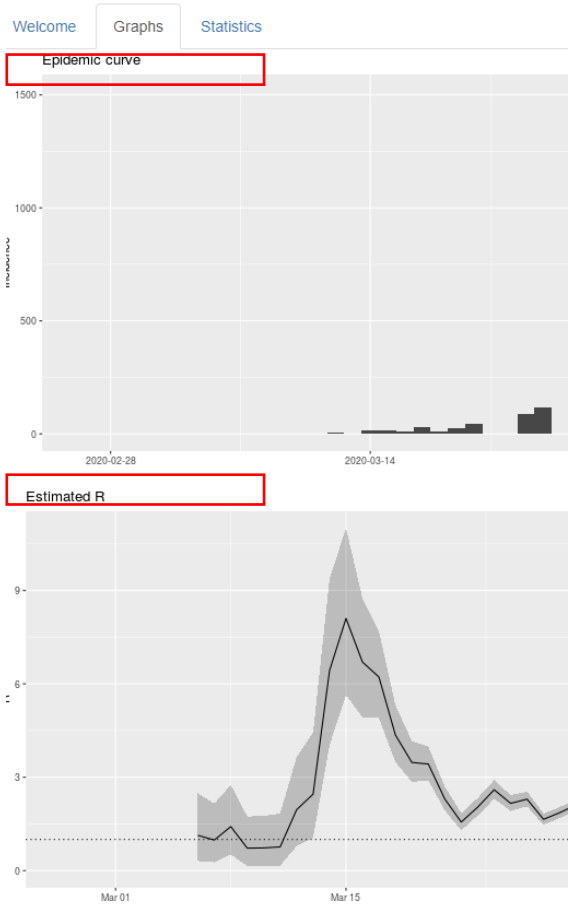
In the “graphs” tab the Epicurve and the plot of the Rt fluctuation will be displayed

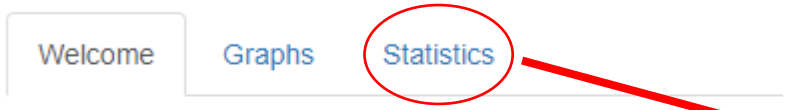


Step 4:

Check “graphs” tabs

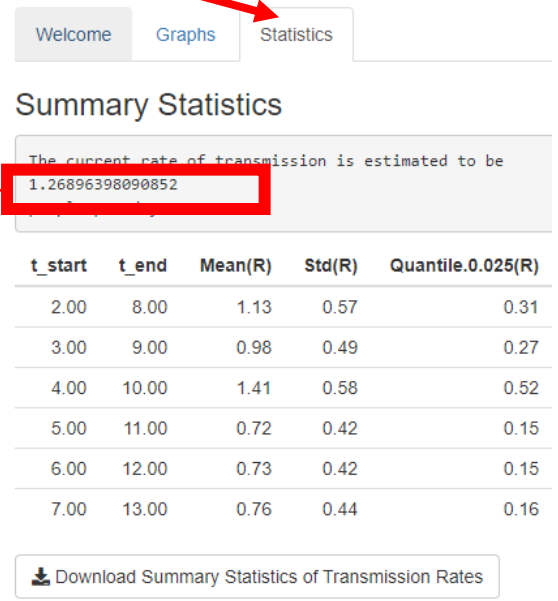
Step 5:

Check "statistics" tabs



COVID-19 Estimator

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



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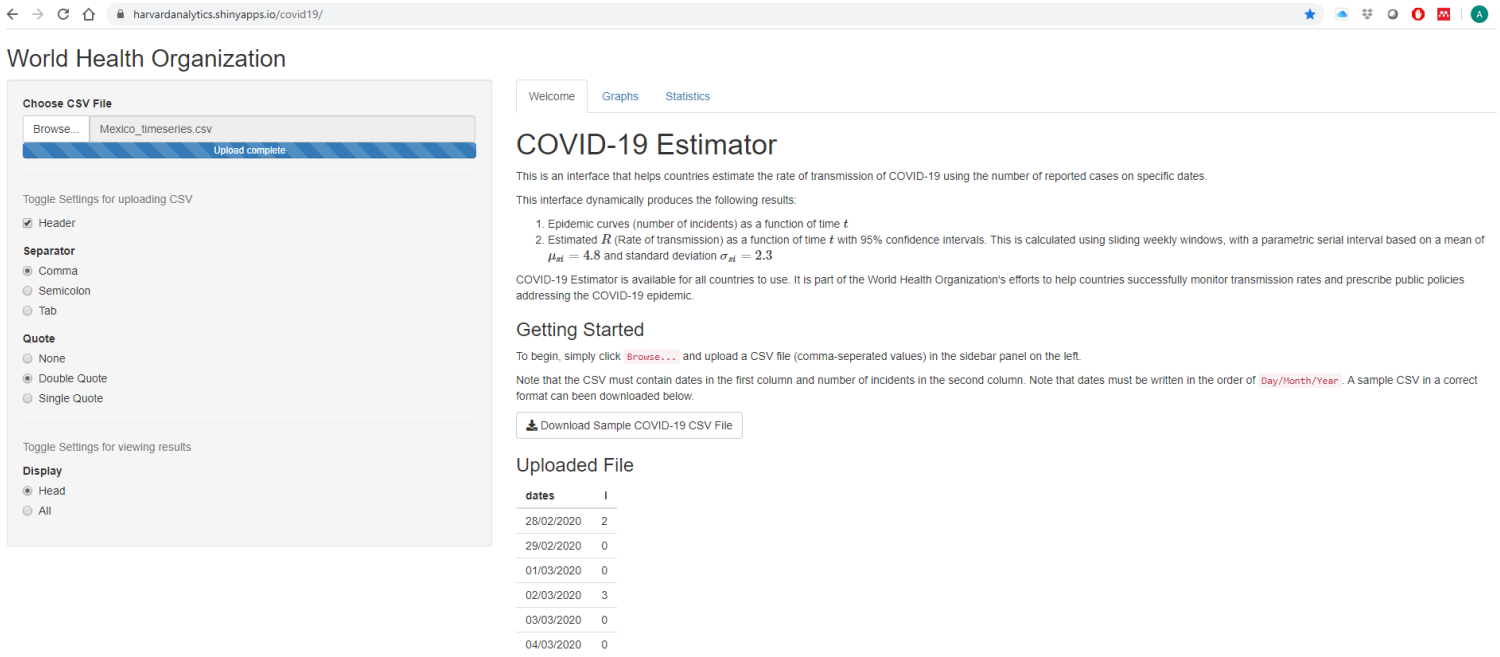

Thank you

PAHO Pan American Health Organization World Health Organization Americas

BE AWARE. PREPARE. ACT.
www.paho.org/coronavirus