

Challenges of the 21st Century

Final Presentation

Impacts of GLOBALIZATION, CLIMATE CHANGE and ADVENT OF DISEASES



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GLOBALIZATION

Thesis: Some of the new challenges we face in the 21st century include Global warming and its repercussions, as well as the advent of new diseases and pandemics caused by increased globalization.

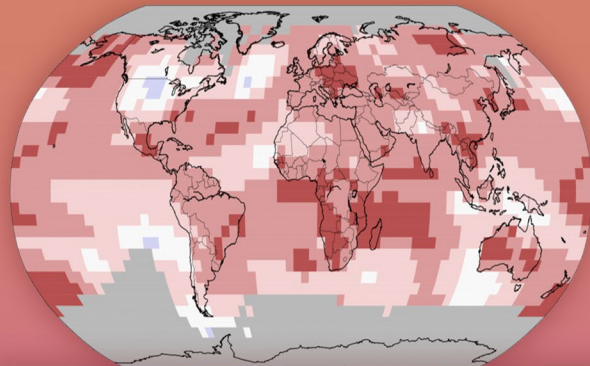
- ▶ Increased Industrialization
- ▶ Advancement in technology
- ▶ Climate Change
- ▶ Rise of diseases

GLOBALIZATION

- ▶ Consumerism and meeting the global need for resources
- ▶ Increased industrialization with technology
- ▶ Global Warming

2019 GLOBAL TEMPS

Land and Ocean Temperature

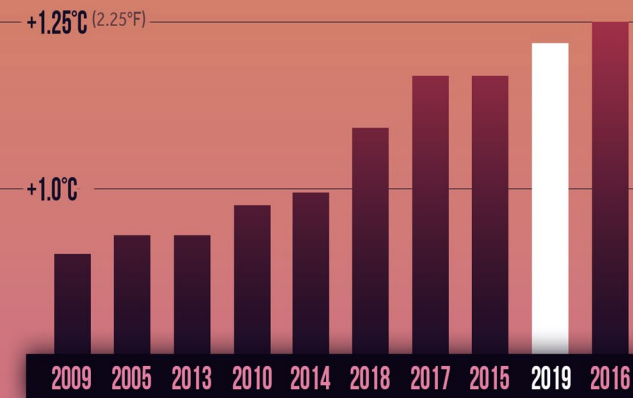


Data as of 1/15/2020
Source: NOAA/NCEI Climate at a Glance

CLIMATE CENTRAL

10 HOTTEST YEARS ON RECORD GLOBALLY

Last 5 = Hottest 5



Source: NASA GISS & NOAA NCEI global temperature anomalies (°C) averaged and adjusted to early industrial baseline (1881-1910). Data as of 1/15/2020.

CLIMATE CENTRAL

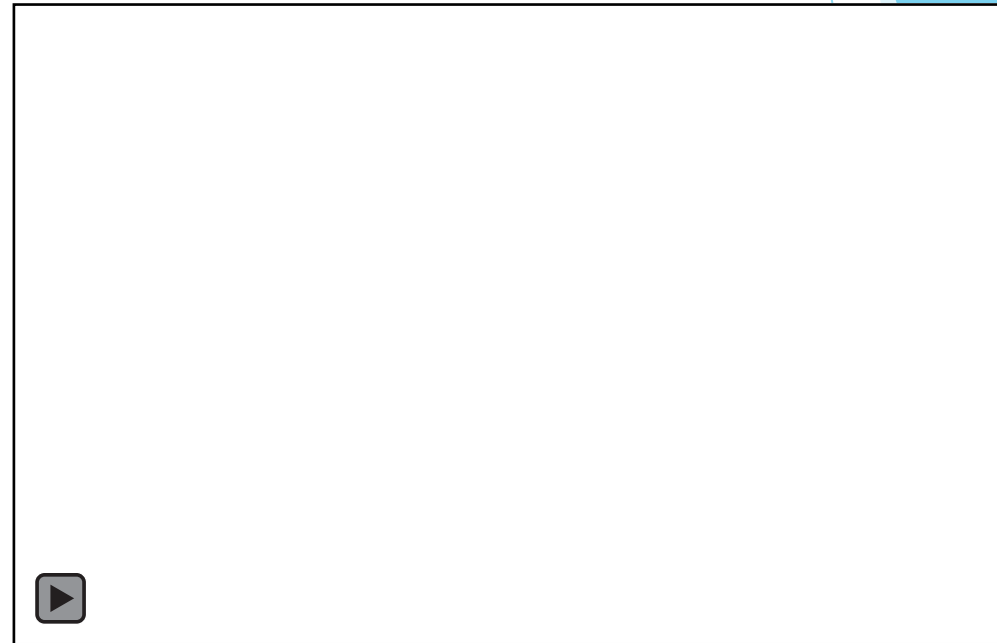
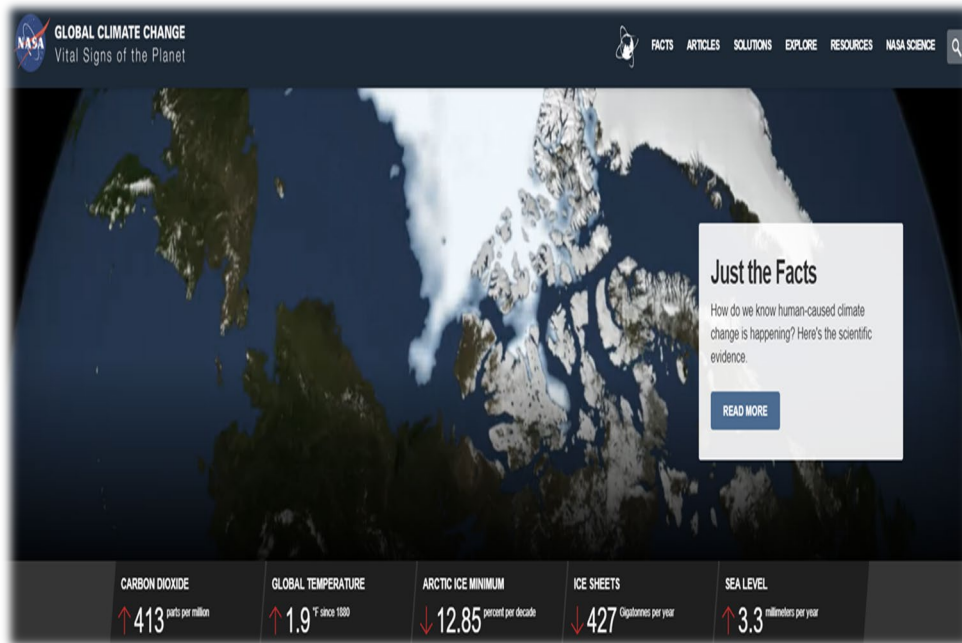
<https://www.climatecentral.org/gallery/maps/2019-in-review-global-temperature-rankings>



CLIMATE CHANGE

Climate Change

Greenhouse effect

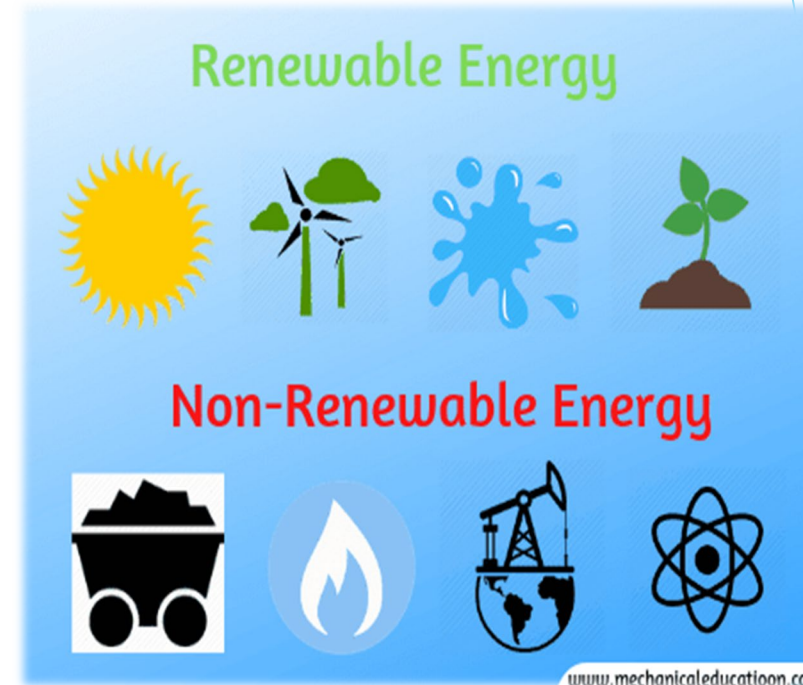


<https://climate.nasa.gov/>

https://climate.nasa.gov/climate_resources/188/graphic-the-greenhouse-effect

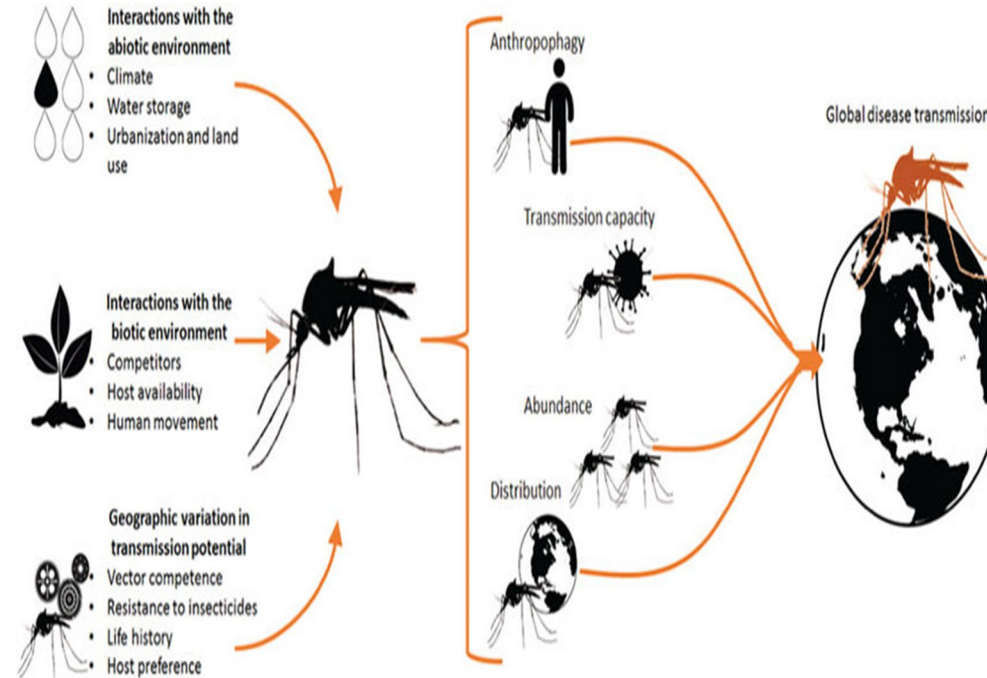
CLIMATE CHANGE & GREEN MOVEMENT

- ▶ Is Climate Change is reversible?
- ▶ Green Movement
- ▶ Global and Regional Initiatives /Organizations



CLIMATE CHANGE AND DISEASE

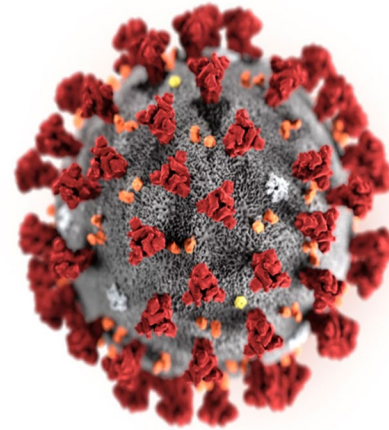
- ▶ Environmental impacts
- ▶ Change in Habitats
- ▶ Spread of diseases in new areas
- ▶ Advent of new diseases



https://www.researchgate.net/figure/The-complexity-of-interactions-among-mosquito-vectors-arboviral-pathogens-and_fig1_313594024

SPREAD OF DISEASE

- ▶ Pandemics and Epidemics
 - Spread from vectors, human to human
- ▶ Global travel increased incidence of Infection
- ▶ Respiratory viruses like SARS, MERS are coronaviruses
- ▶ Novel Coronavirus, COVID-19



This illustration provided by the Centers for Disease Control and Prevention shows the 2019 novel coronavirus. [AP]



COVID-19

- ▶ Transmission (vectors, person to person and mass gatherings)
- ▶ Statistics on COVID-19 Infection
- ▶ Dealing with the Pandemic

- New York State, has been devastated by this virus, due to population density, overwhelmed healthcare system, lack of personal protected equipment, large number of nursing homes compromised and poor compliance with social distancing. The state and NY city has been on one hundred percent lockdown, excluding essential workers, in an effort to maintain social distancing and decrease the spread of the virus. The quarantine has been effective in seeing a decline in infection rate, hospitalizations and deaths.

Global COVID-19 Cases

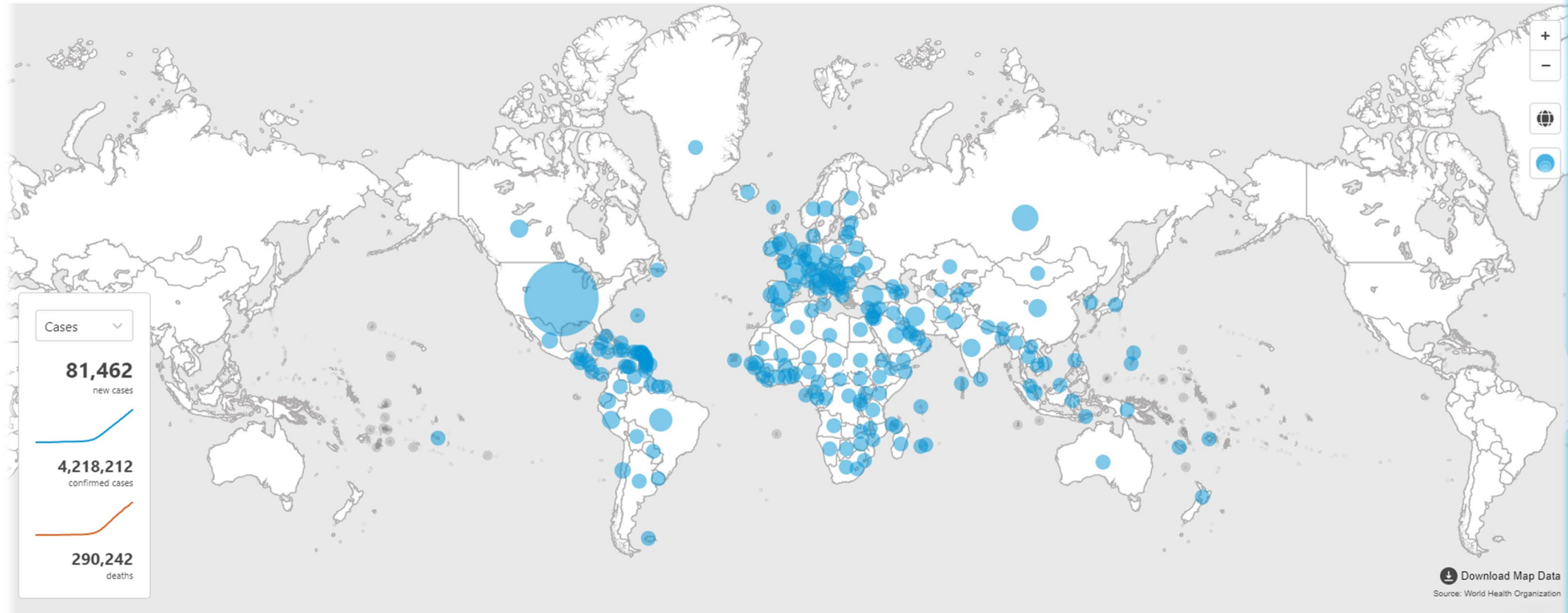


Search by Country, Territory, or Area

Covid-19 Response Fund
[Donate](#)

WHO Coronavirus Disease (COVID-19) Dashboard
Data last updated: 2020/5/14, 8:35am CEST

[Overview](#) [Explorer](#)



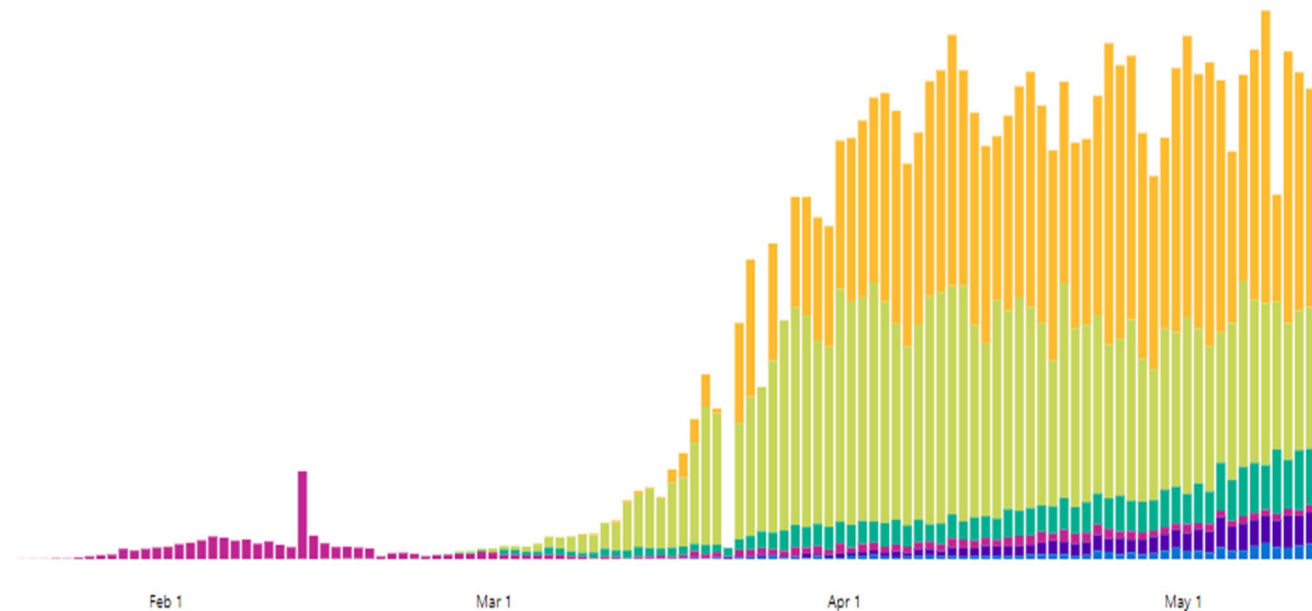
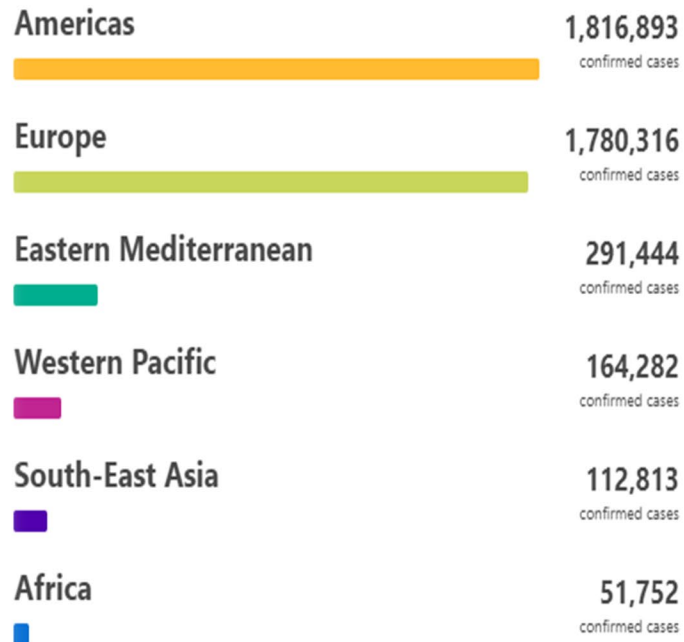
Globally, as of 8:35am CEST, 14 May 2020, there have been **4,218,212 confirmed cases** of COVID-19, including **290,242 deaths**, reported to WHO.



COVID-19 TRACKING AROUND THE WORLD

Case Comparison

WHO Regions

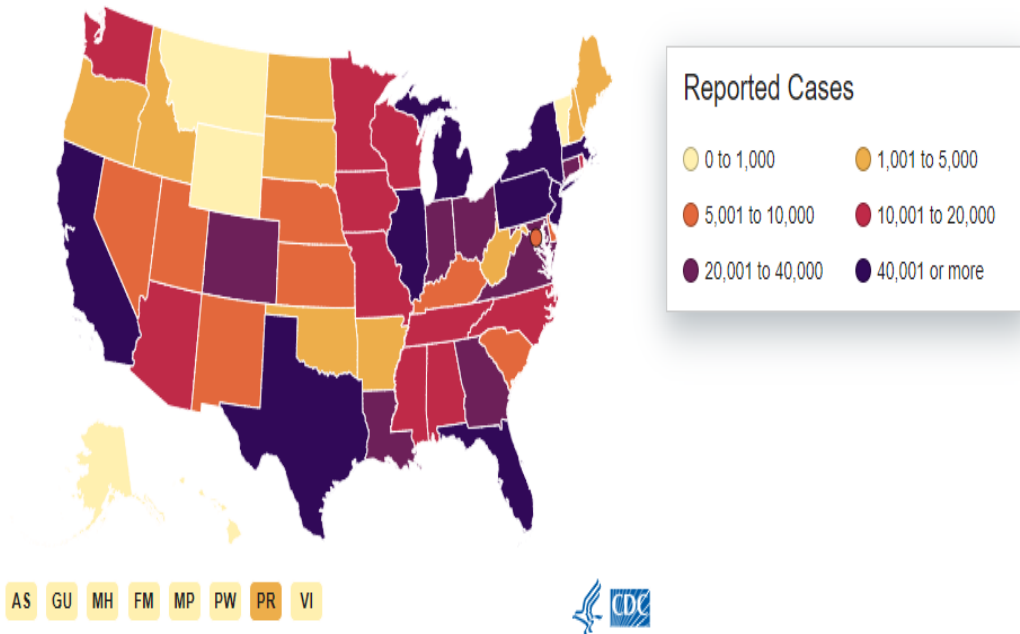


Source: World Health Organization

COVID CASES IN THE UNITED STATES

28 states report more than 10,000 cases of COVID-19.

This map shows COVID-19 cases and deaths reported by U.S. states, the District of Columbia, and other U.S.-affiliated jurisdictions. Hover over the map to see the number of cases and deaths reported in each jurisdiction. To go to a jurisdiction's health department website, click on the jurisdiction on the map.



According to the WHO Surveillance

Cumulative Cases in USA (as of May 13th, 2020)

-1,819,666

Cumulative Deaths in USA

-109, 123

Cases continue to be on rise as testing and states issue reports daily.

NYC

Cases:	185,206
Hospitalized*:	49,307
Confirmed deaths:	15,233
Probable deaths:	5,083
Updated:	May 13, at 12:30 p.m.

*Estimated.

[Get the data](#) • Created with [Datawrapper](#)

Deaths in NYC Reported by New York State: 14,881 (updated May 13)

<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/cases-in-us.html>

<https://www1.nyc.gov/site/doh/covid/covid-19-data>



Recovering from the Global Pandemic COVID-19

- Global issues must be dealt with on Global scale
- International and regional institutions that ensure success in the 21st century are the Health organizations that tackle problems like infectious diseases, vaccinations, and improve access to health services all over the world
- Race for new Vaccine
- Getting ahead of the game



CONCLUSION

- ▶ Identifying the key issues : Global Warming, Climate Change, New Diseases
- ▶ Engaging with technology for sustainable development
- ▶ Establishing Sustainable economies, using local and regional resources
- ▶ Move production home and limit global dependency.

RESOURCES

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