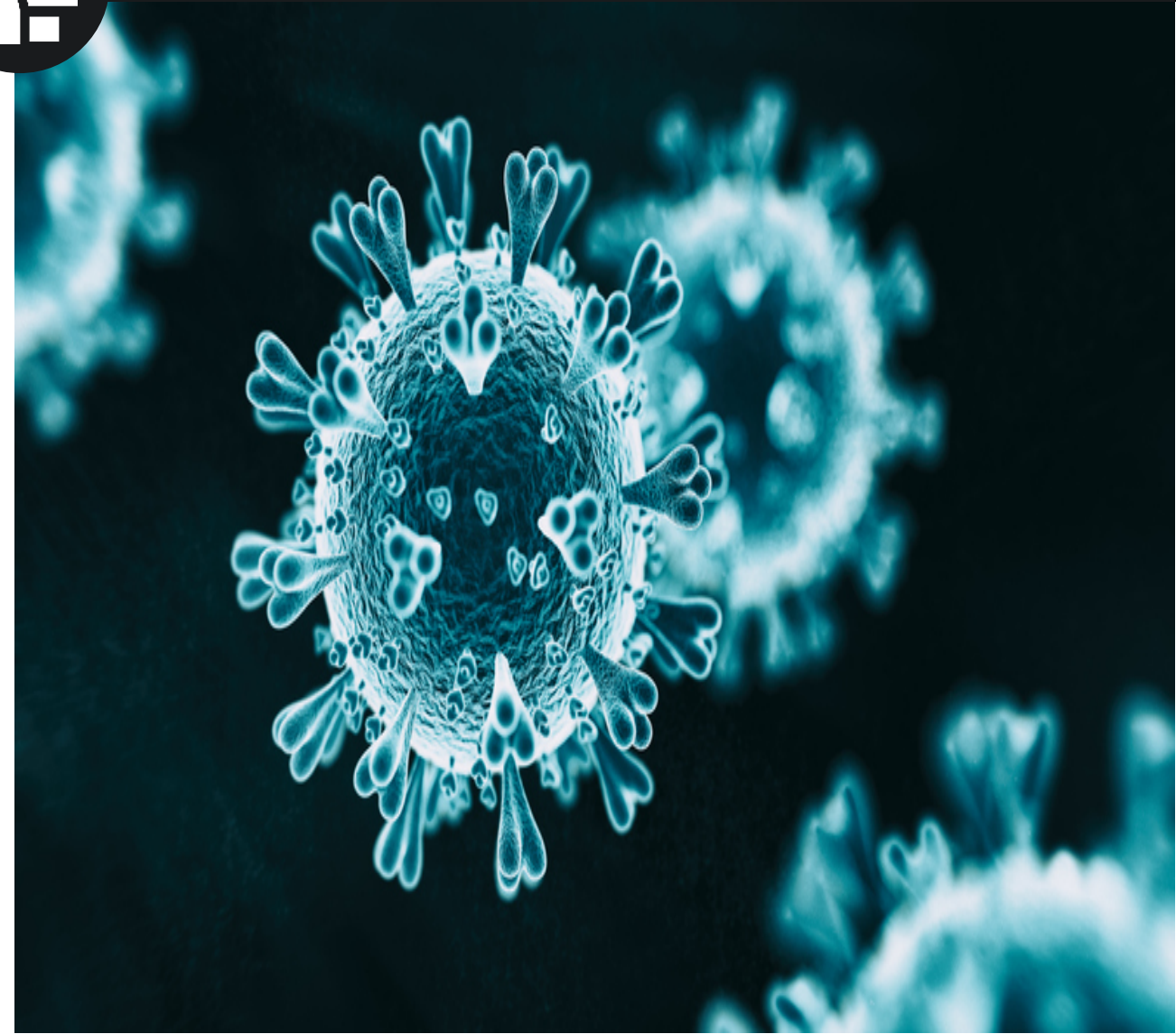




# COVID-19: APRIL 9 UPDATE



April 9, 2020

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## OUTLINE

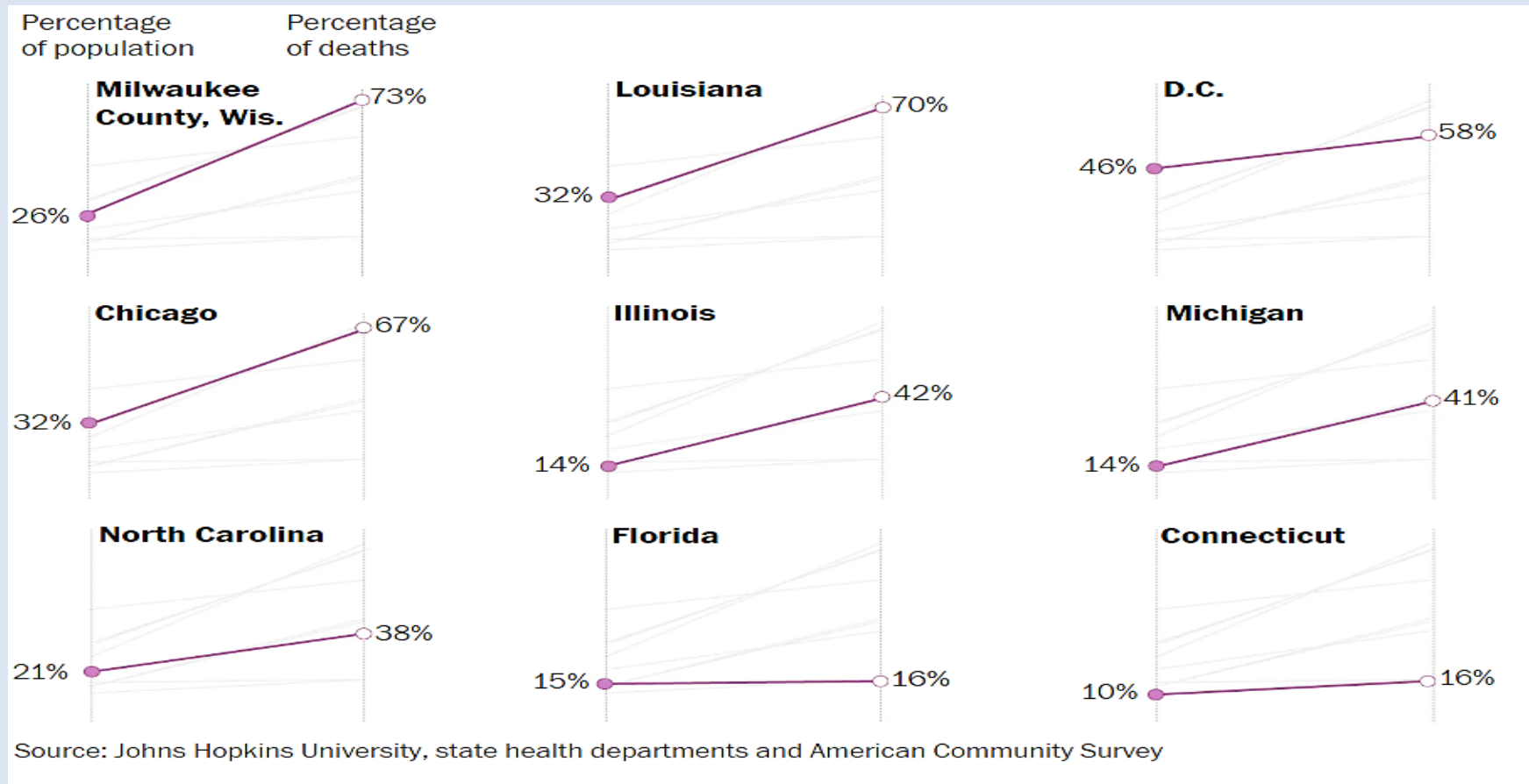
- Overall Observations
- C19 Case and Death Count Update, by Country
- Latest IHME (Washington University) Projections for United States
- Geographic mobility per Google GPS, by state and by country
- Oxford Index on Government Response Stringency
- Sudden Decline in non-C19 Hospital Admissions... e.g., in Heart Attacks & Strokes

## OVERALL OBSERVATIONS

- Good news on U.S. case & death trends; per Washington University model:
  - U.S. daily death peak will come sooner and lower (April 12 at c 2,200).
  - Total U.S. death toll may be 1/3 lower (60,000 rather than 90,000).
- But is there a shutdown exit strategy? As yet, few policy leaders are planning one.
  - “Smart suppression” (e.g., testing and tracing) still seems off our radar screen.
  - Per latest findings from Italy & China, “herd immunity” may be a chimera.
- C19 pandemic becoming a humanitarian catastrophe in less-developed economies
  - Positives: younger median age; tropical weather. Negatives: pre-existing diseases; dense slums; low GDP/capita; informal work; weak health infrastructure; failed states.
- True # of deaths in Wuhan... based on urns returned to funeral homes:
  - Total: 42,000; excess deaths  $\approx$  29,000; that is, 0.3% of Wuhan’s population.
- Large disparities in U.S. C19 fatality rate by race: black rate > 2X white rate.

# C19 HITTING BLACKS HARDER THAN WHITES

African Americans by Percentage of Population and Share of Coronavirus Deaths. Updated April 7, 2020.



# BLACK-MAJORITY COUNTIES ESPECIALLY HARD HIT

All US Counties by Majority Race and COVID-19 Cases and Deaths Per 100k Persons.

County majority	Counties	Cases per 100k	Deaths per 100k
Asian	6	19.5	0.4
Black	131	137.5	6.3
Hispanic	124	27.2	0.6
White	2,879	39.8	1.1

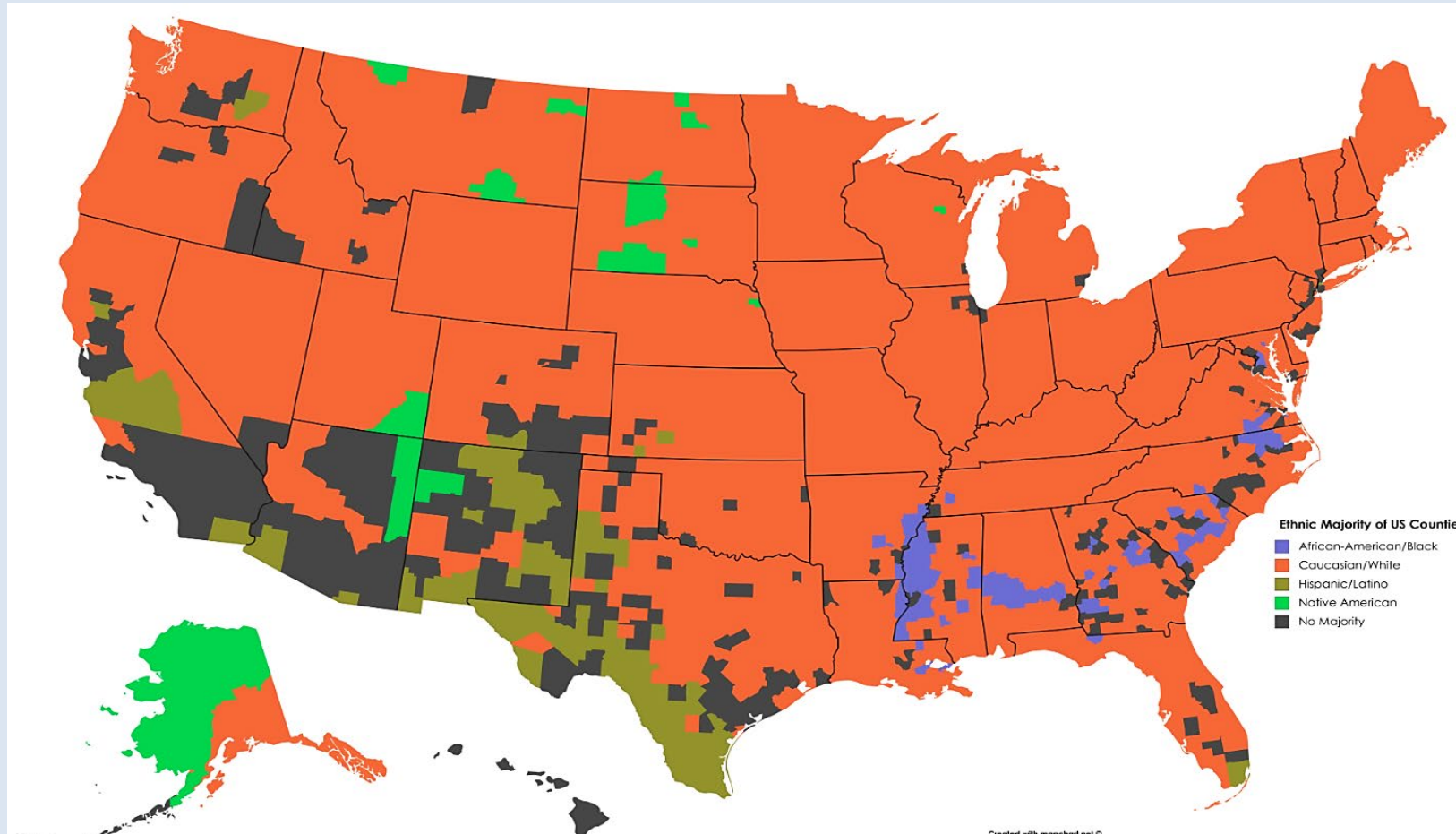
Note: Data per 100k based on averages.

Source: Johns Hopkins University and American Community Survey.



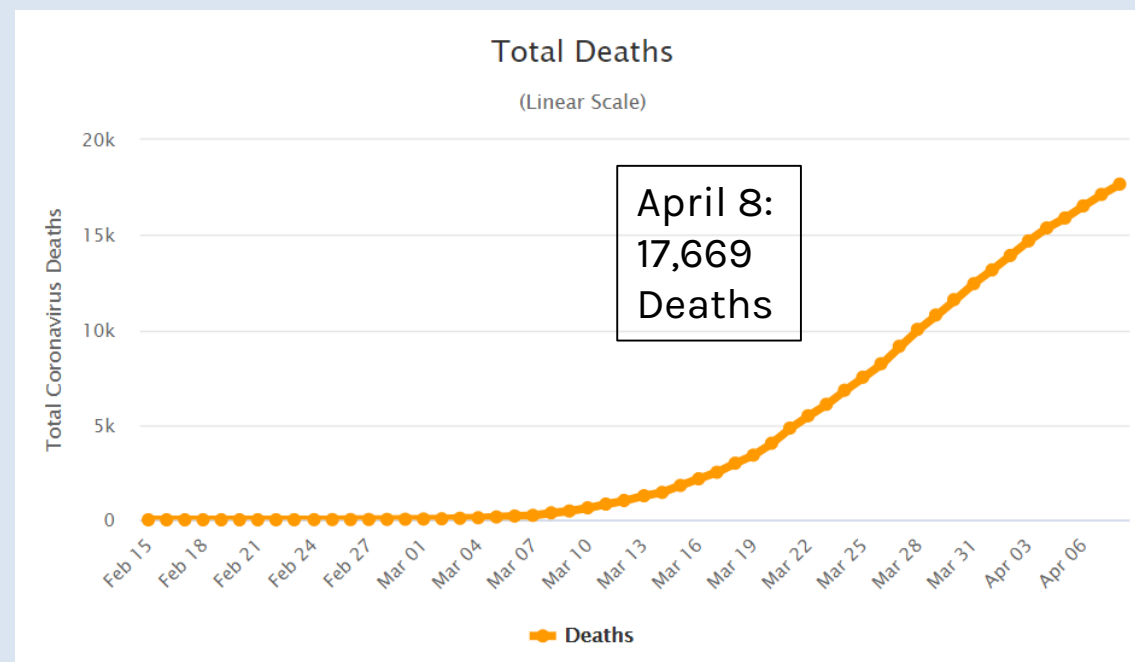
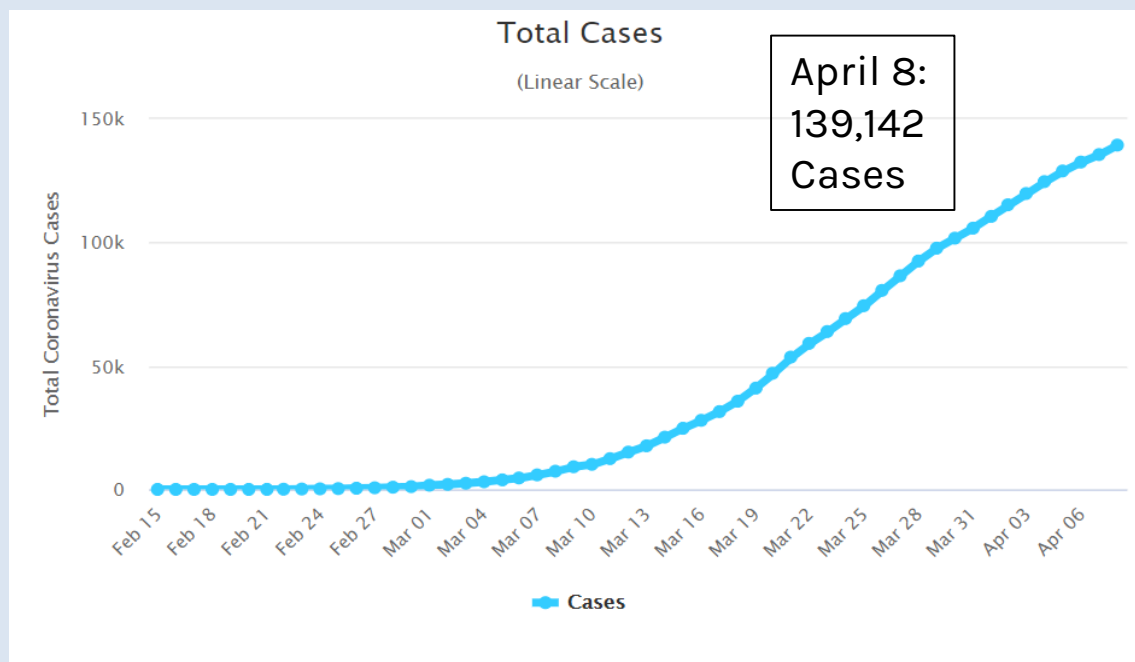
# THESE COUNTIES MOSTLY IN SOUTHERN NON-HOTSPOTS

## US Counties by Majority Race.



# THE SITUATION IN... ITALY

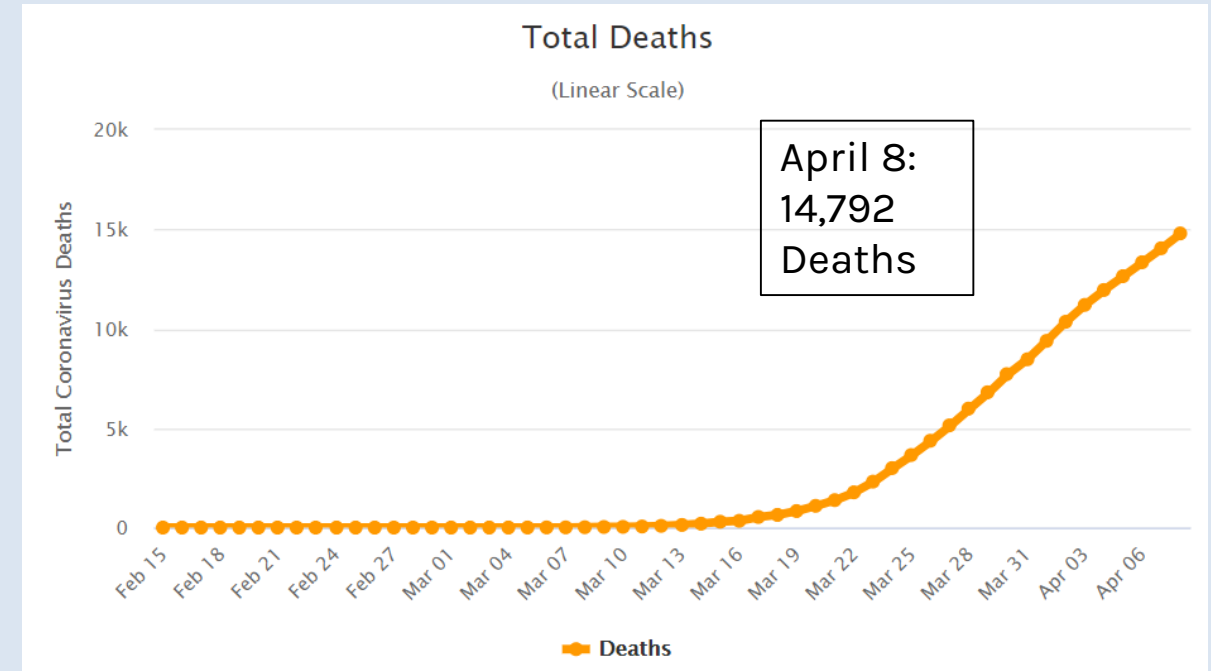
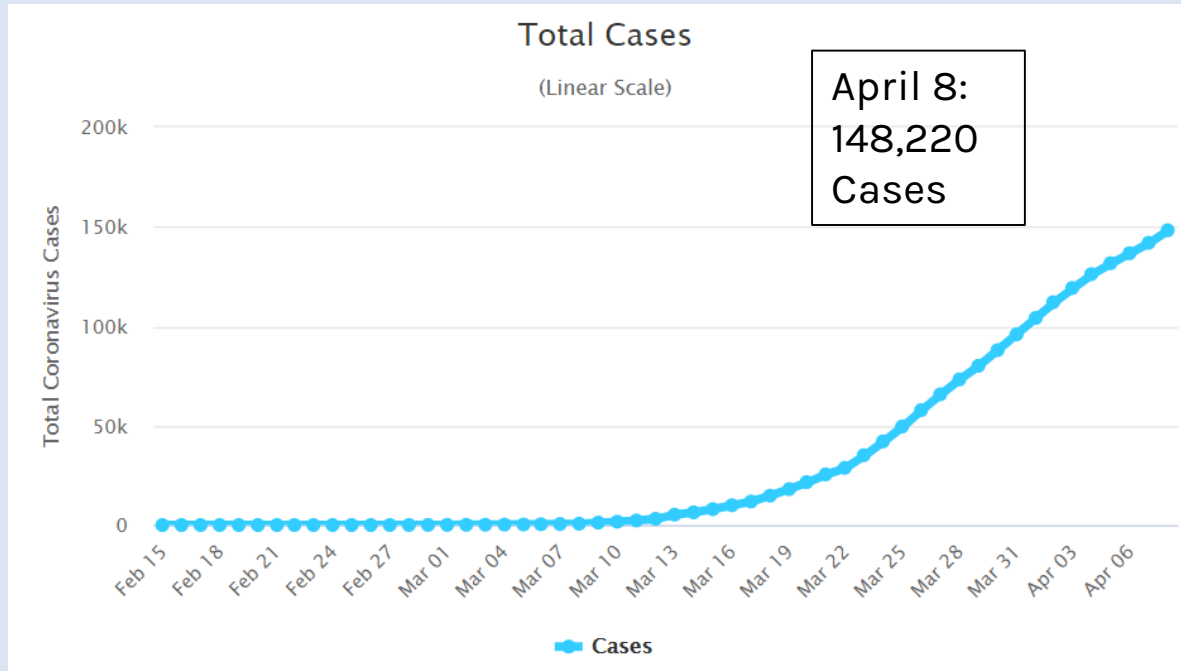
## COVID-19 Cases and Deaths in Italy Updated April 9, 2020





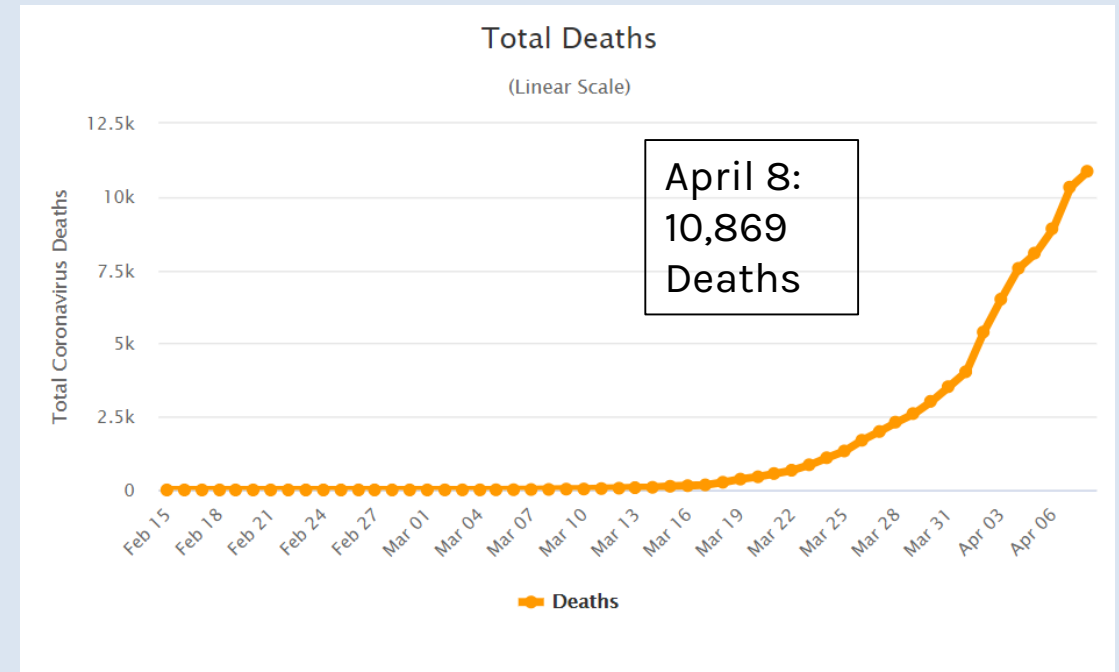
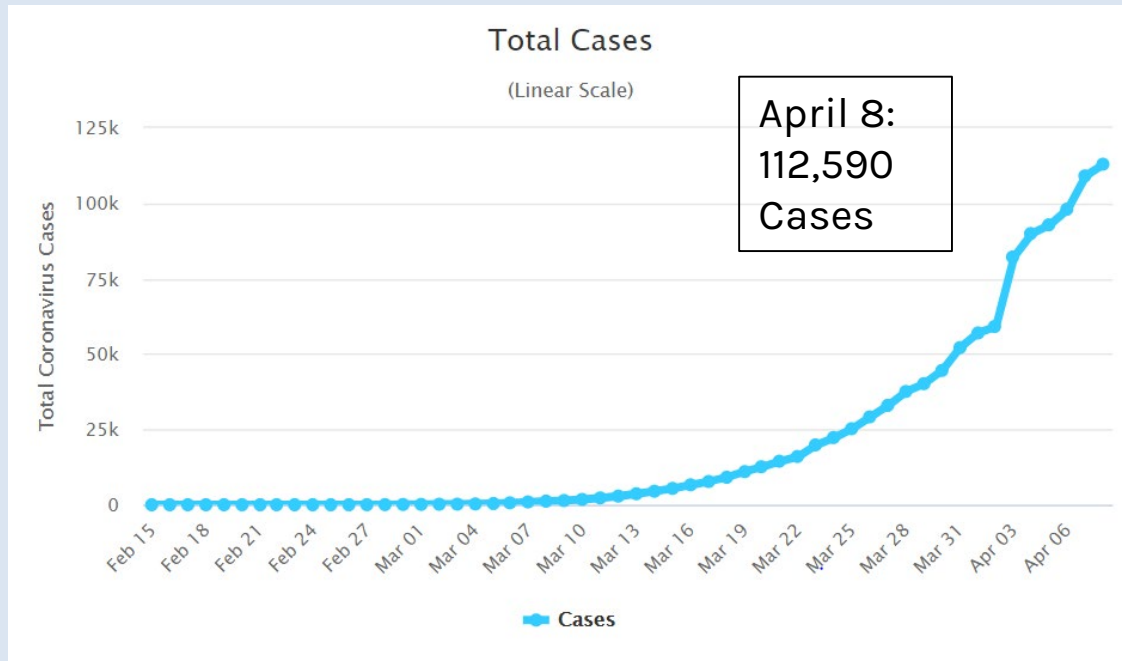
# THE SITUATION IN... SPAIN

## COVID-19 Cases and Deaths in Spain Updated April 9, 2020



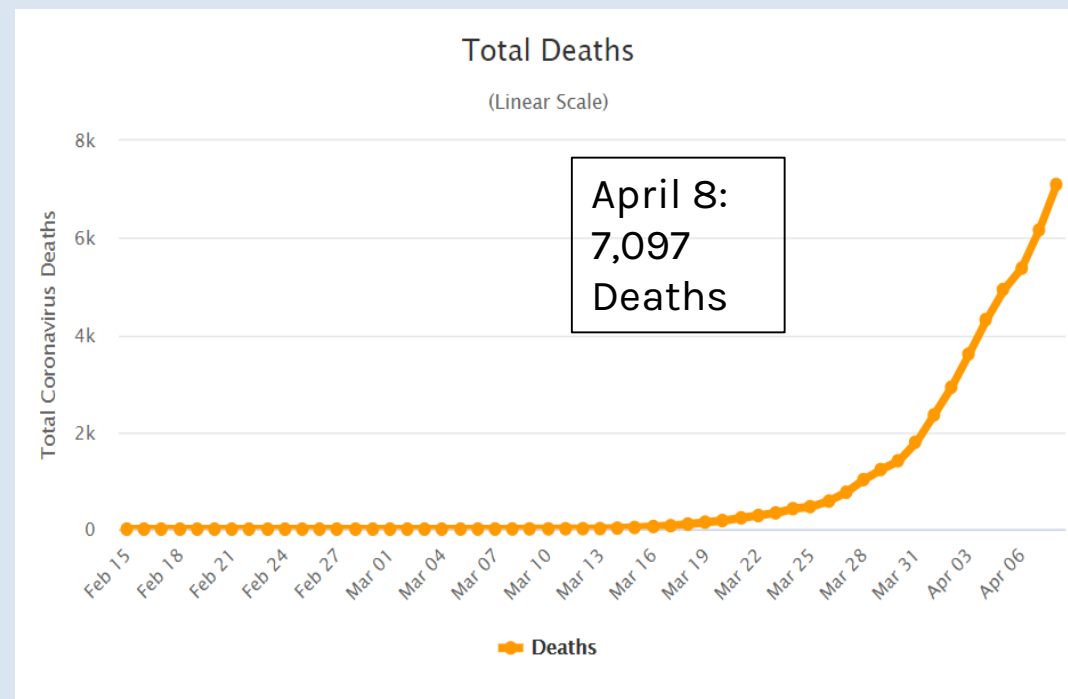
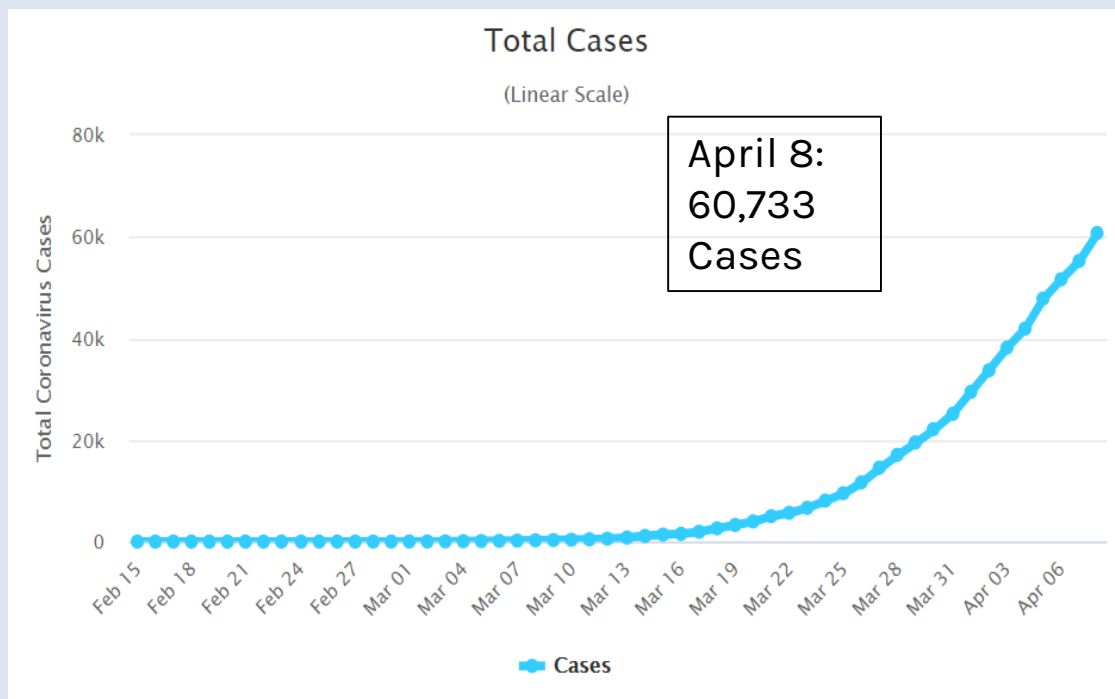
# THE SITUATION IN... FRANCE

## COVID-19 Cases and Deaths in France Updated April 9, 2020



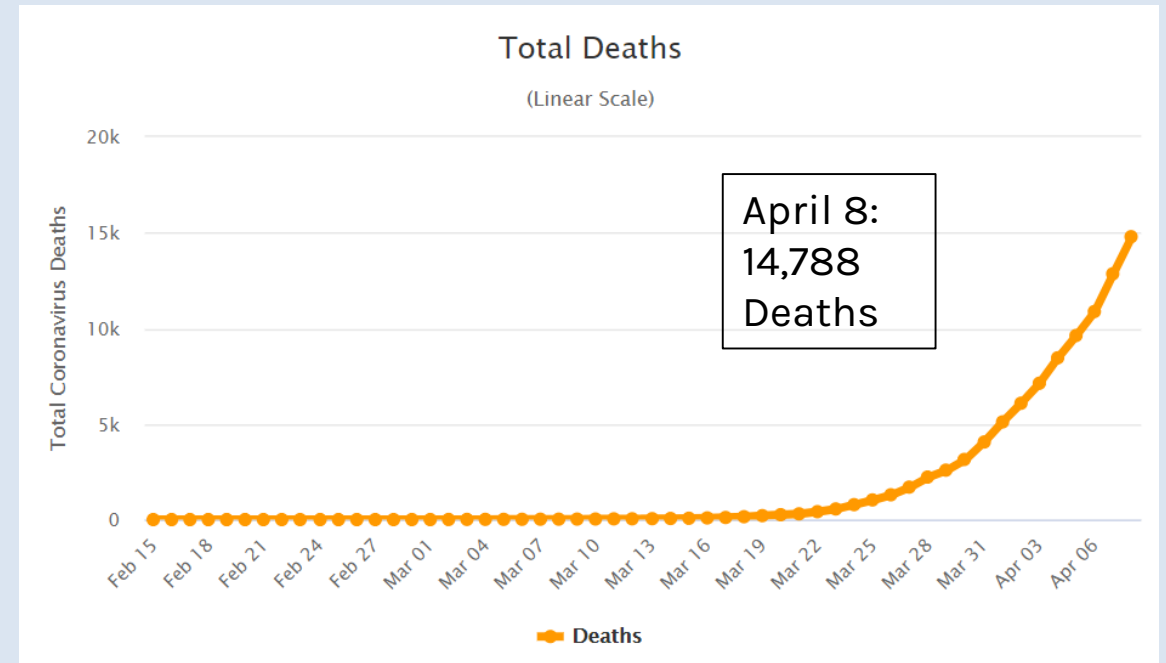
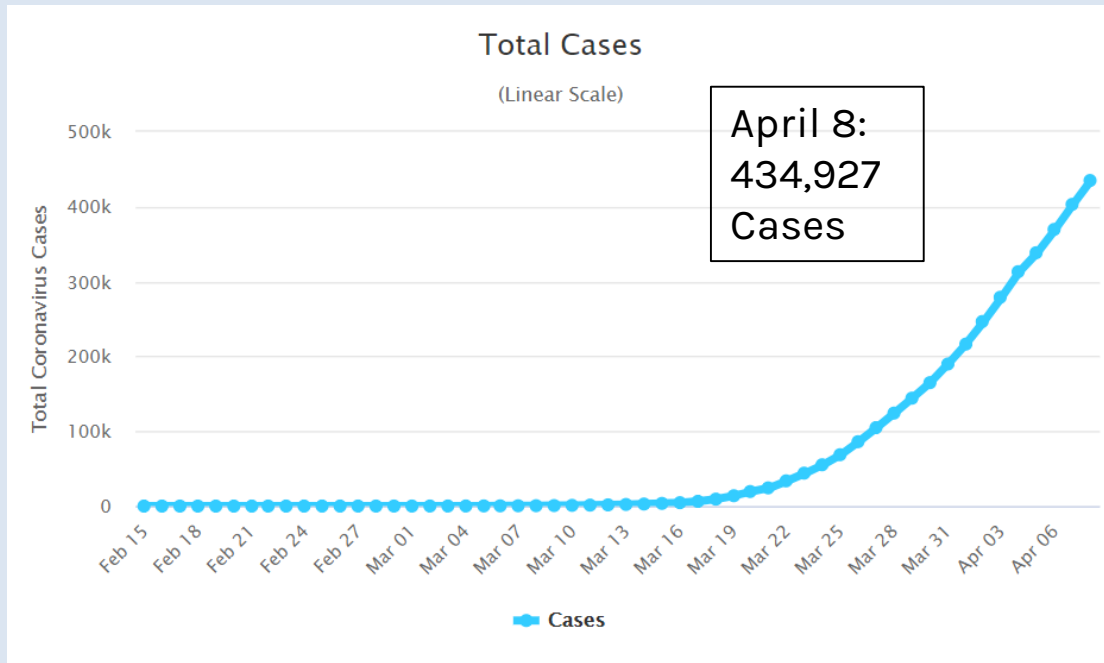
# THE SITUATION IN... UK

## COVID-19 Cases and Deaths in UK Updated April 9, 2020



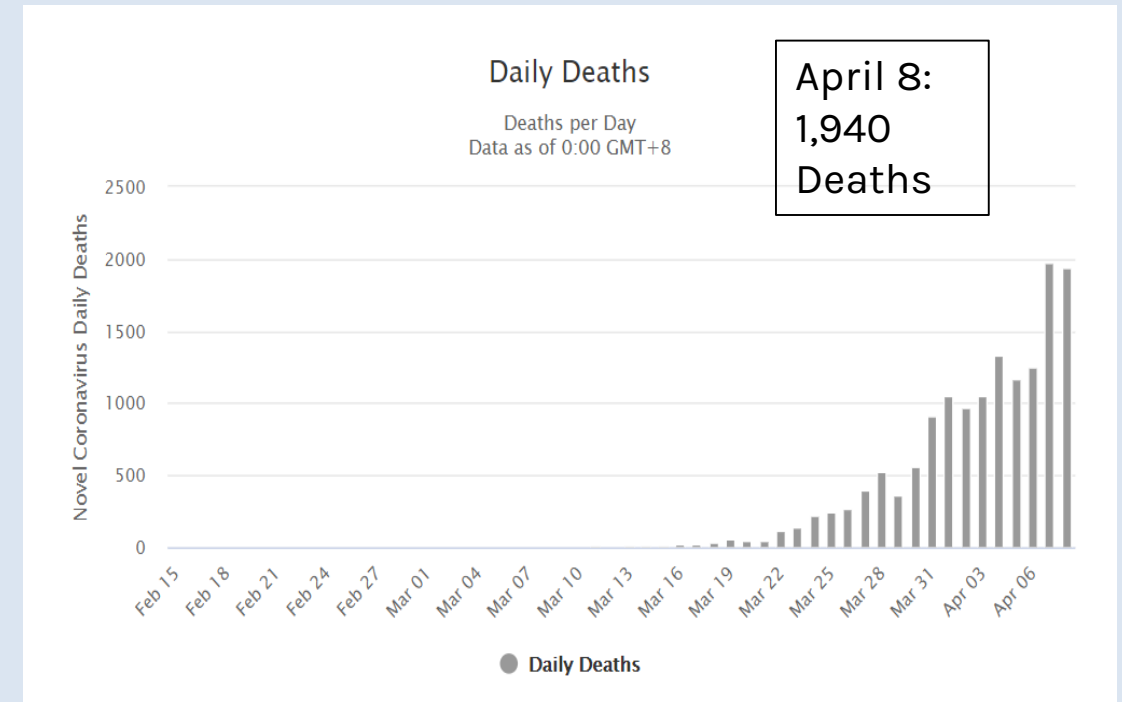
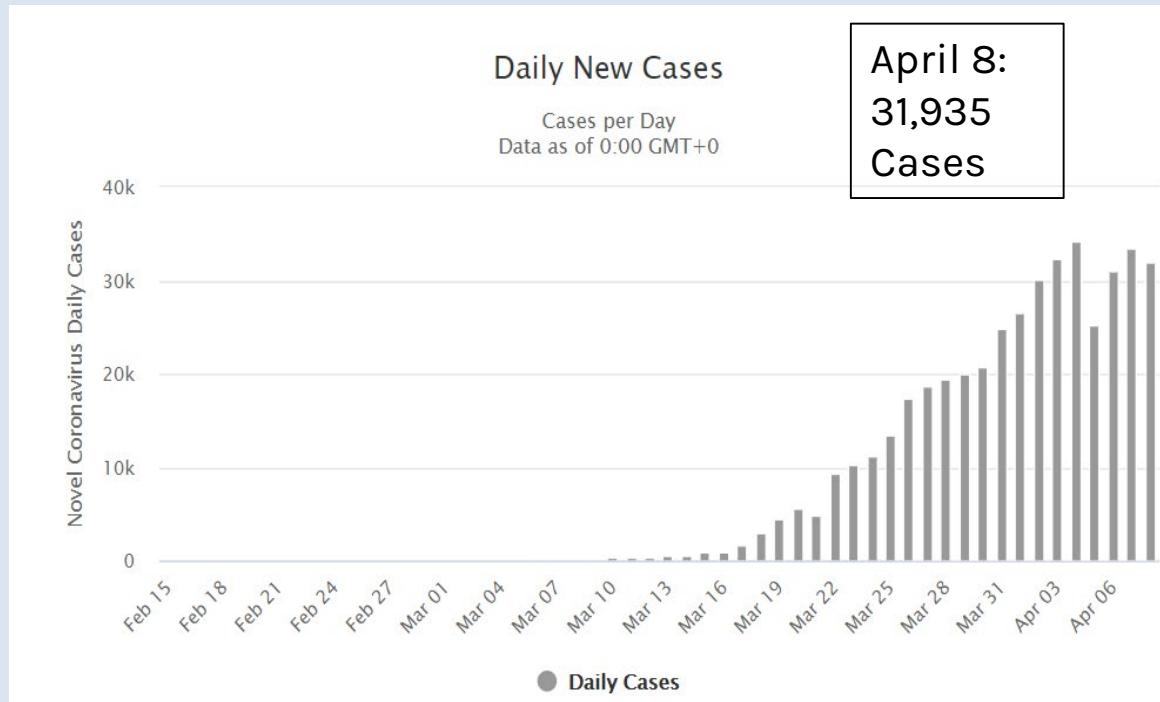
# THE SITUATION IN... USA

## COVID-19 Cases and Deaths in USA Updated April 9, 2020



# THE SITUATION IN... USA

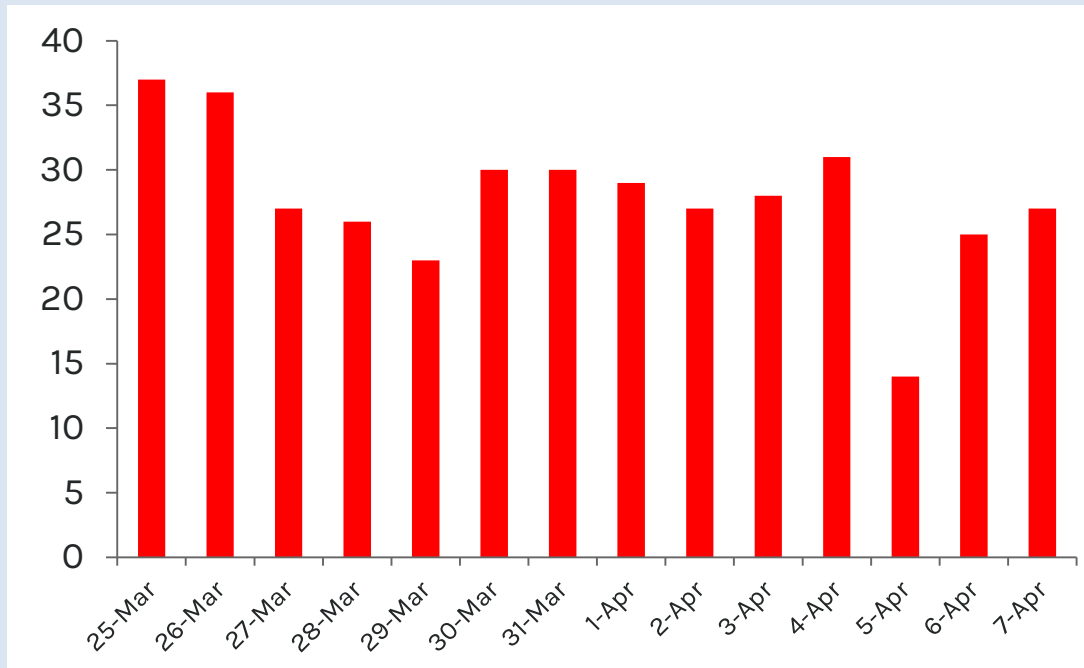
## COVID-19 Daily Cases and Deaths in USA. Updated April 9, 2020



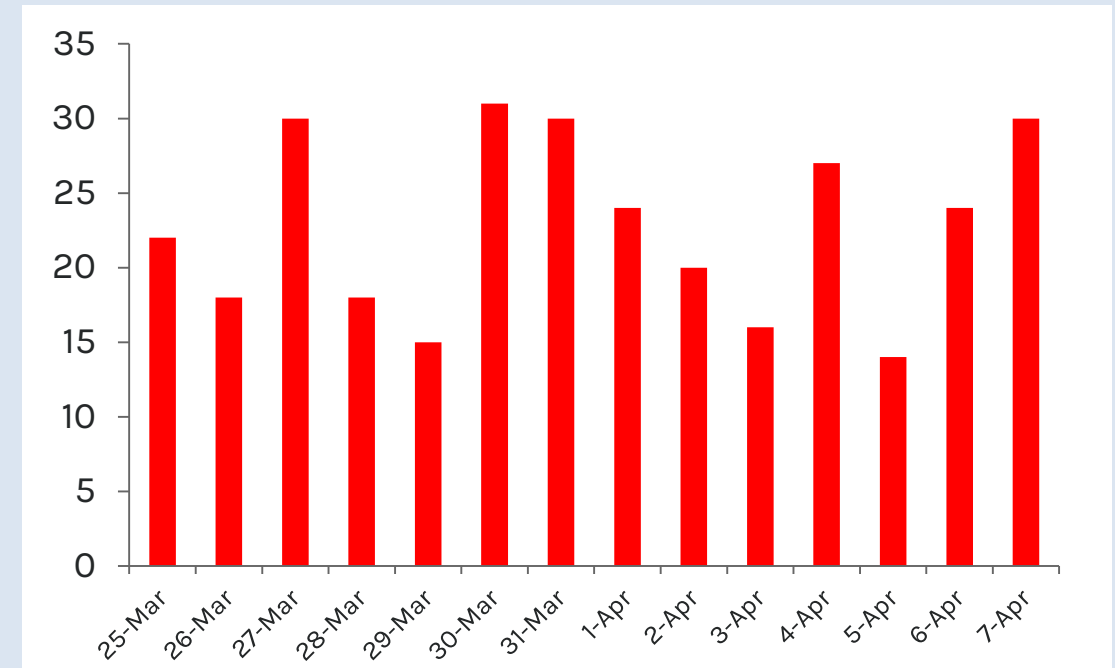
# STATE DIFFUSION INDEX IN CASES & DEATHS

Number of US States Whose Case and Death Count was Larger Than Previous Day.

Cases

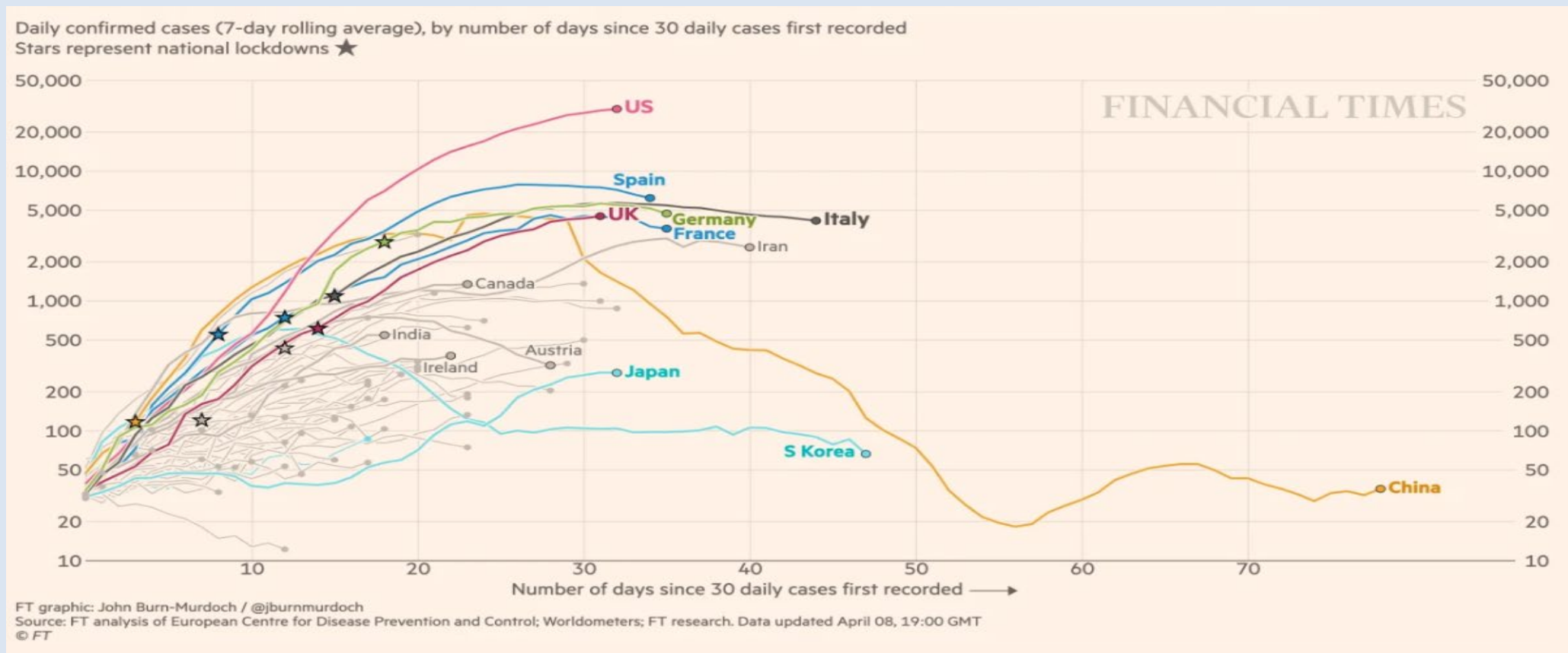


Deaths



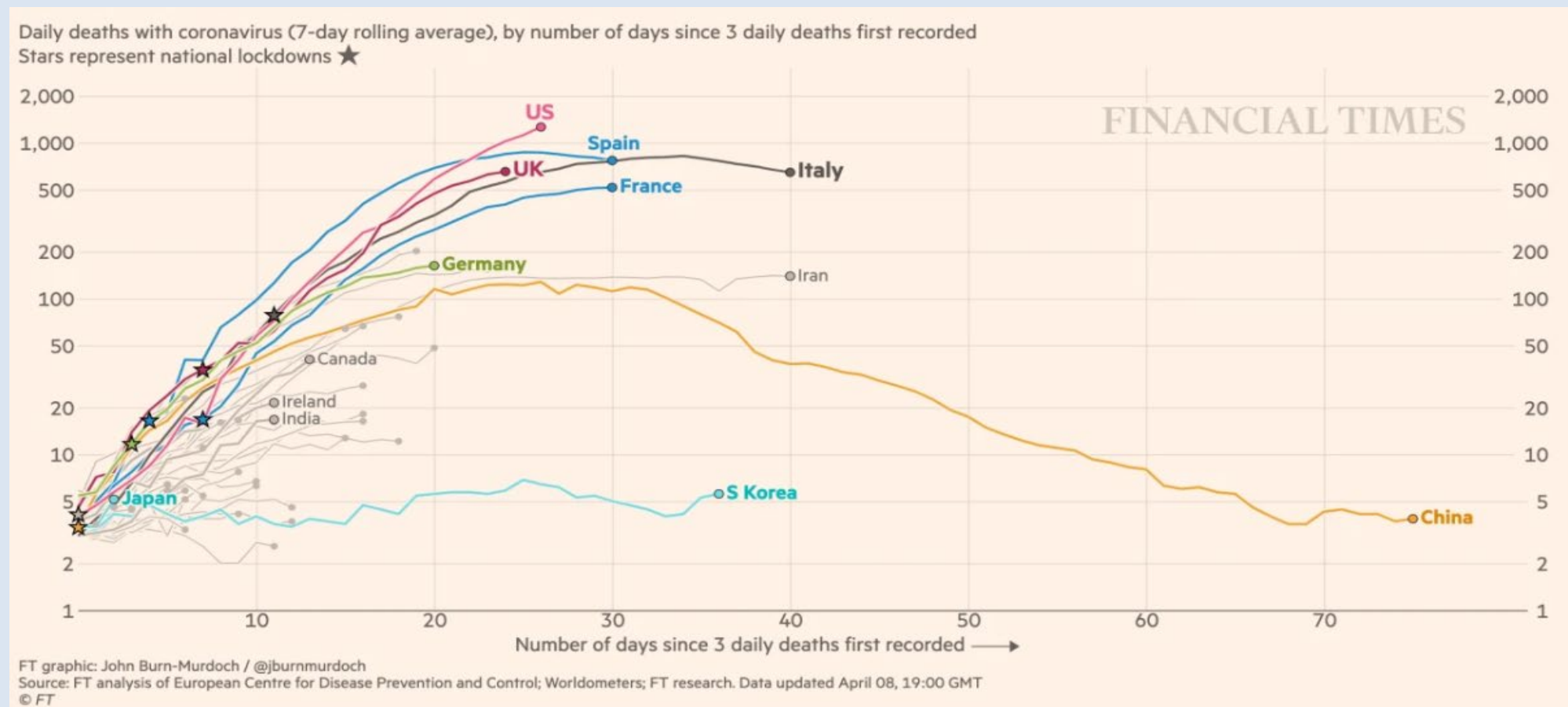
# US ABOVE THE REST

## Daily COVID-19 Cases, Seven Day Rolling Average. Updated April 9, 2020.



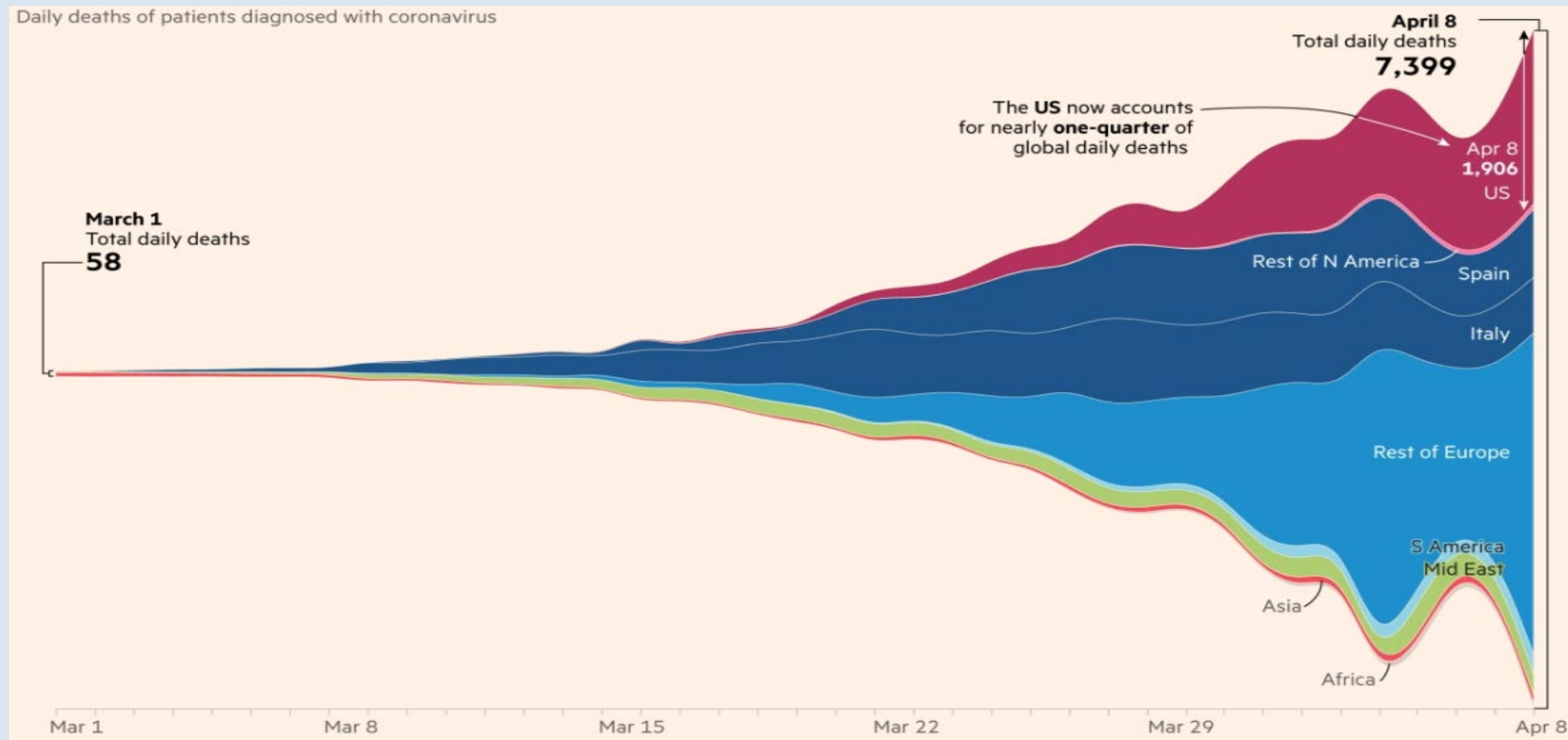


## Daily COVID-19 Deaths, Seven Day Rolling Average. Updated April 9, 2020.



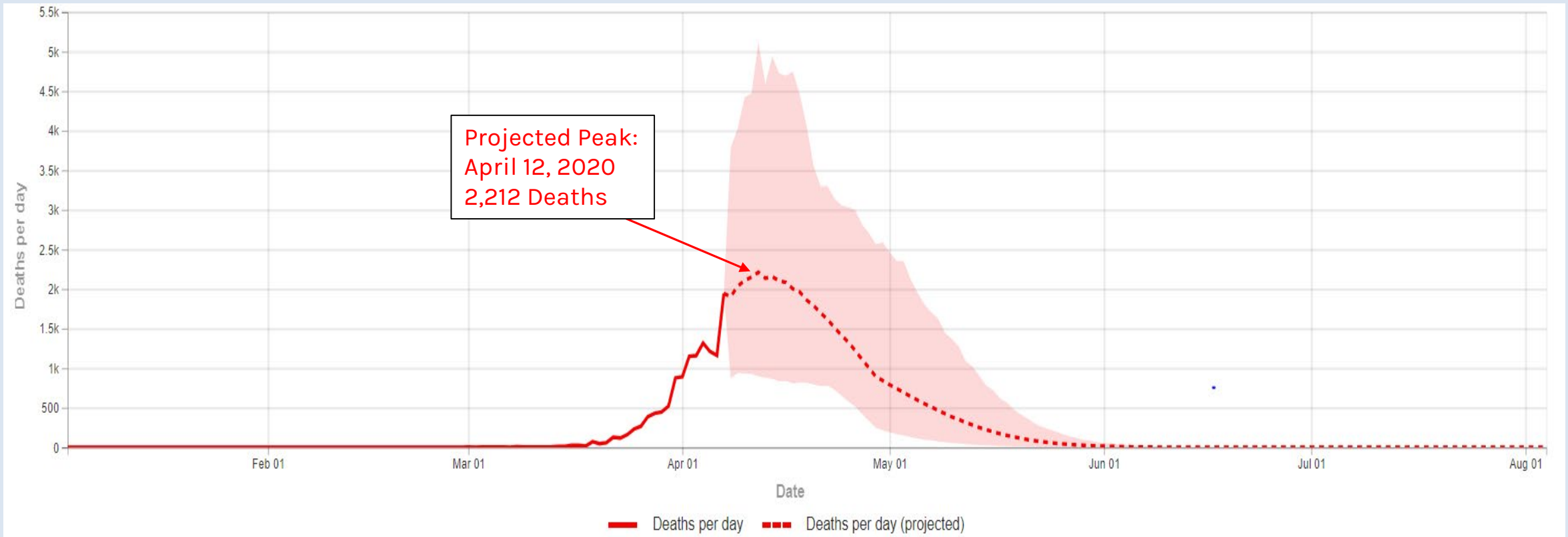
# EUROPE ABOVE THE REST

Daily COVID-19 Deaths by Region. Updated April 4, 2020.



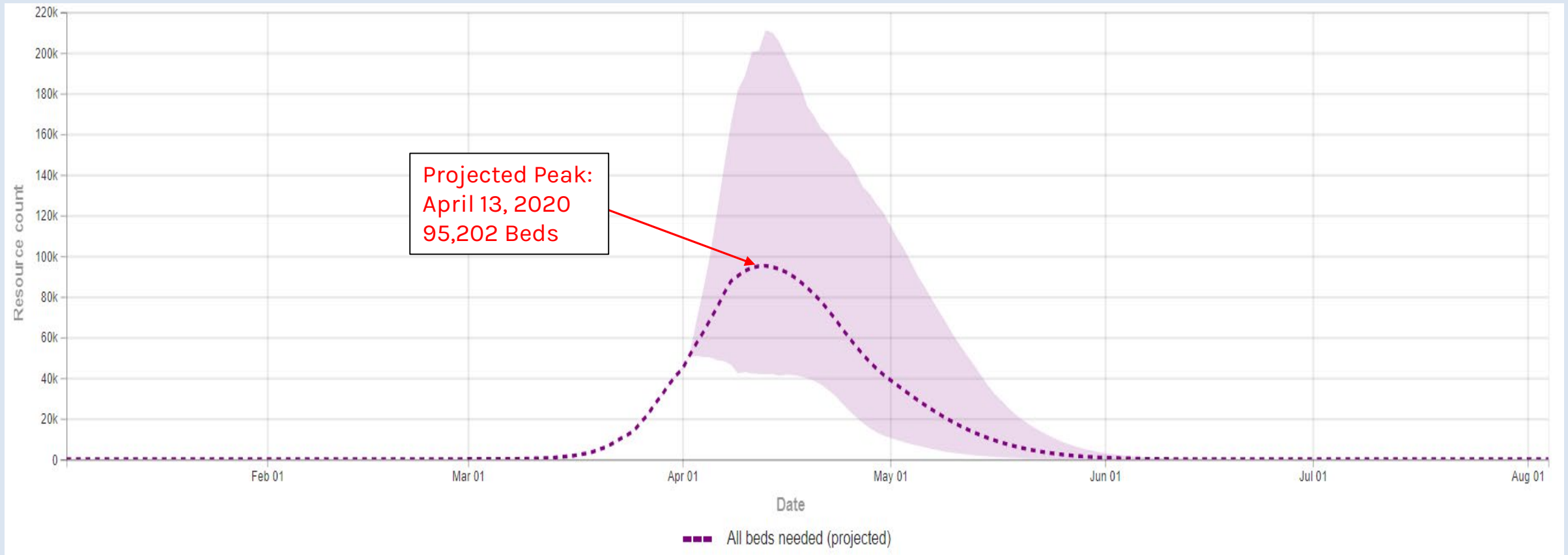
# THE PEAK IS COMING SOONER... IN DEATHS

## Projection of Daily COVID-19 Deaths



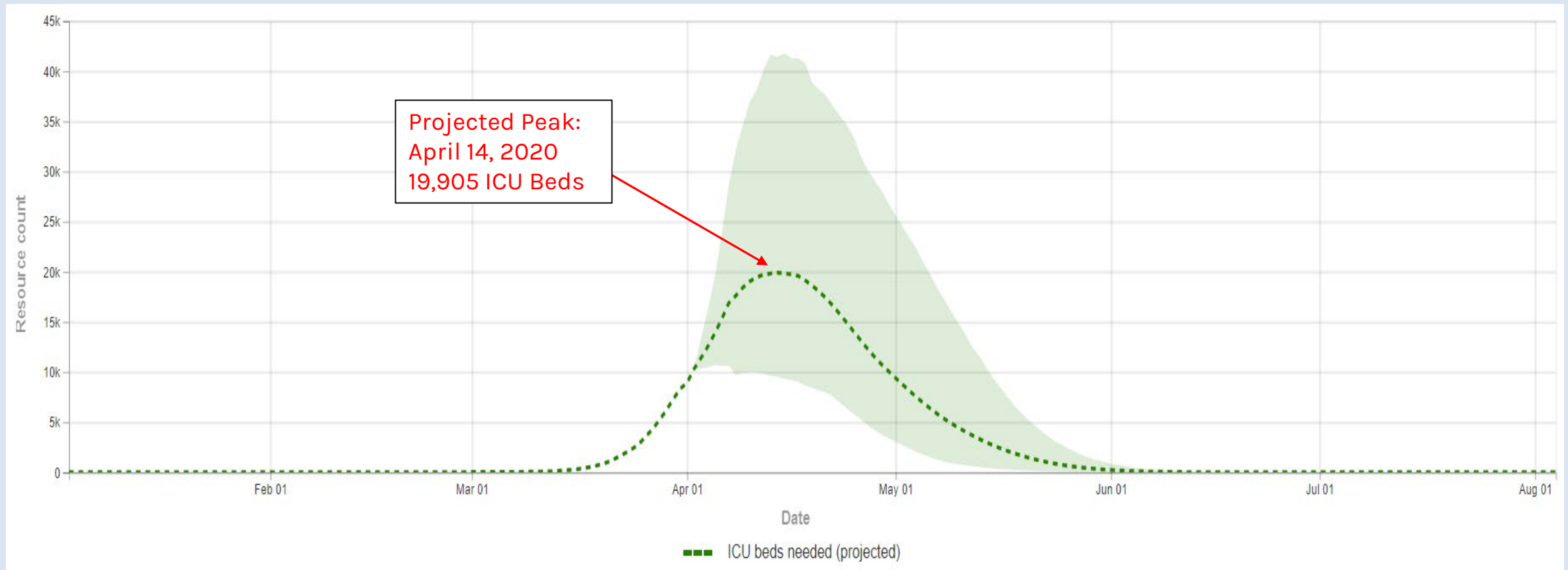
# IN HOSPITAL BEDS...

## Projection of All Hospital Beds Needed For COVID-19

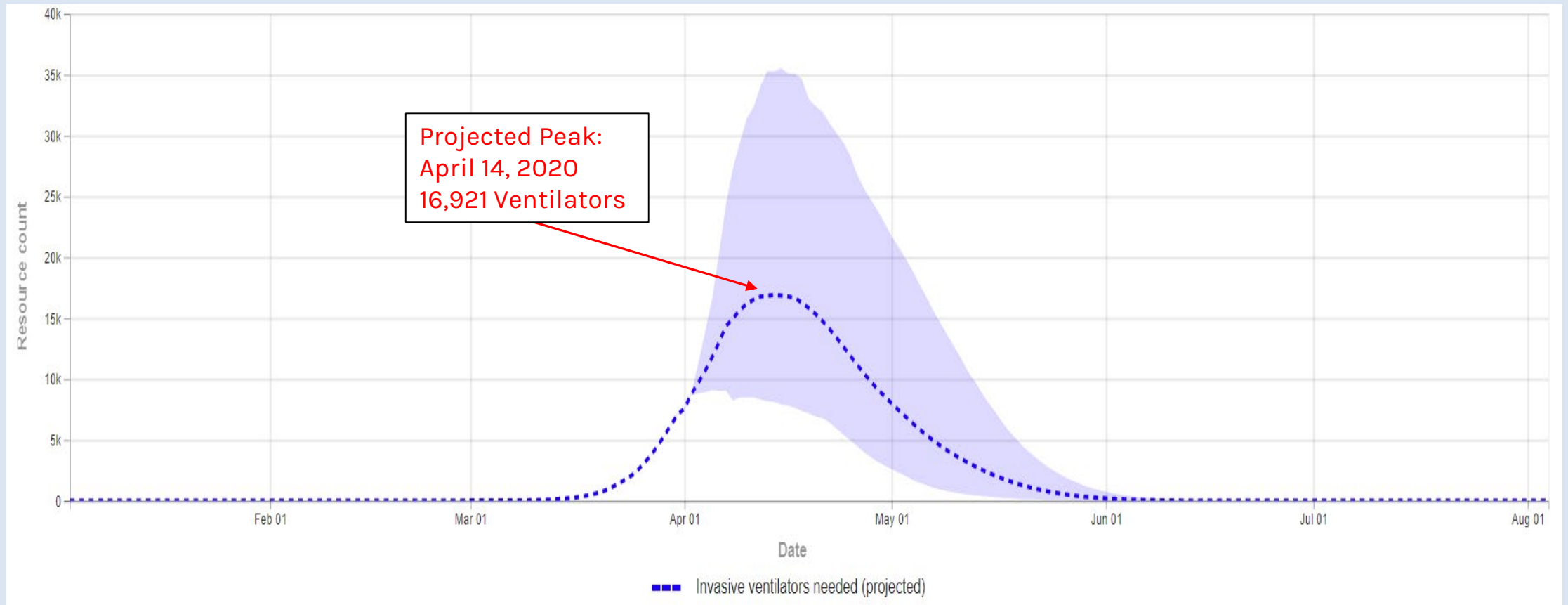


# IN ICU BEDS...

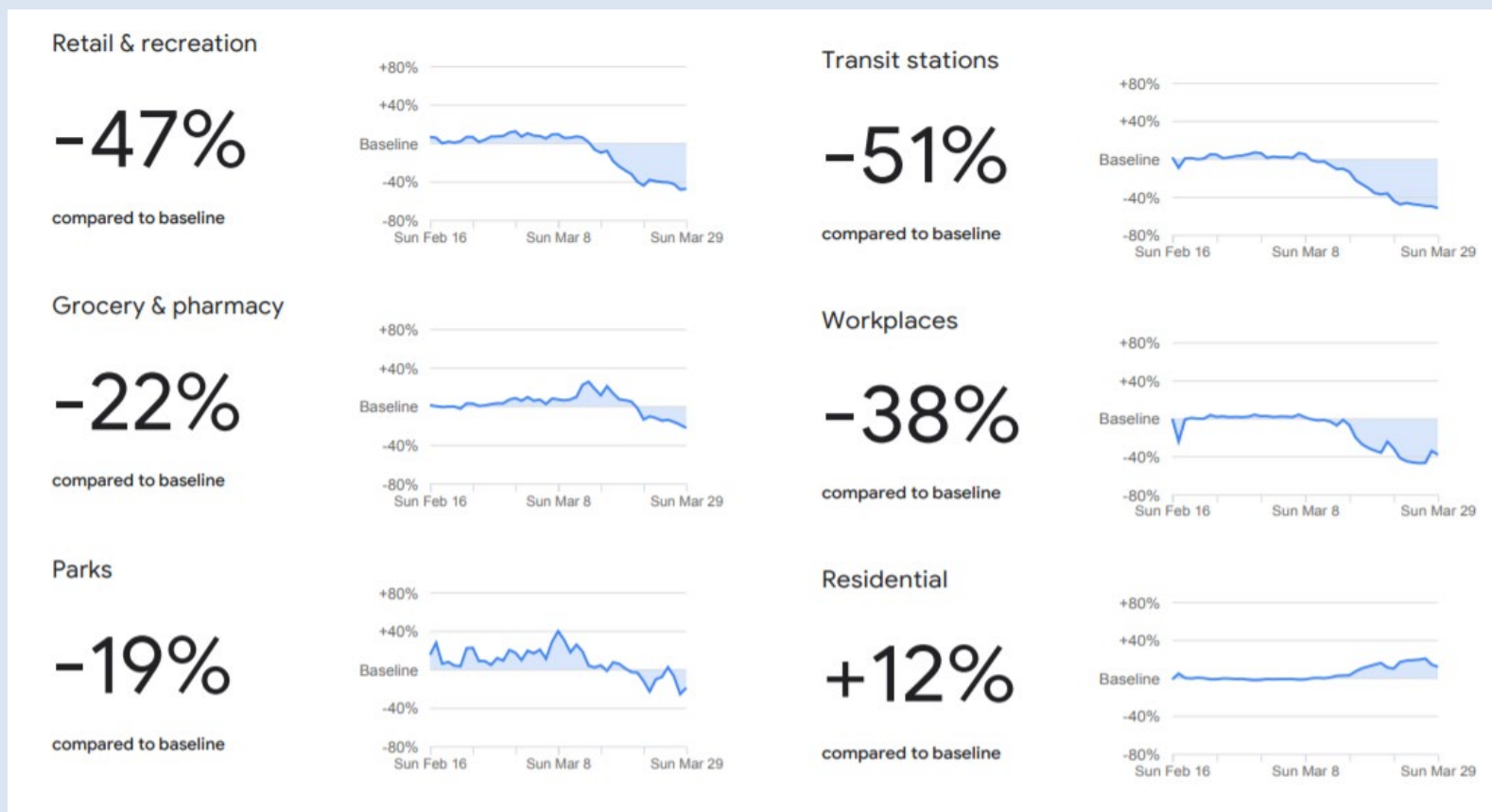
## Projection of ICU Beds Needed For COVID-19



## Projection of Invasive Ventilators Needed For COVID-19



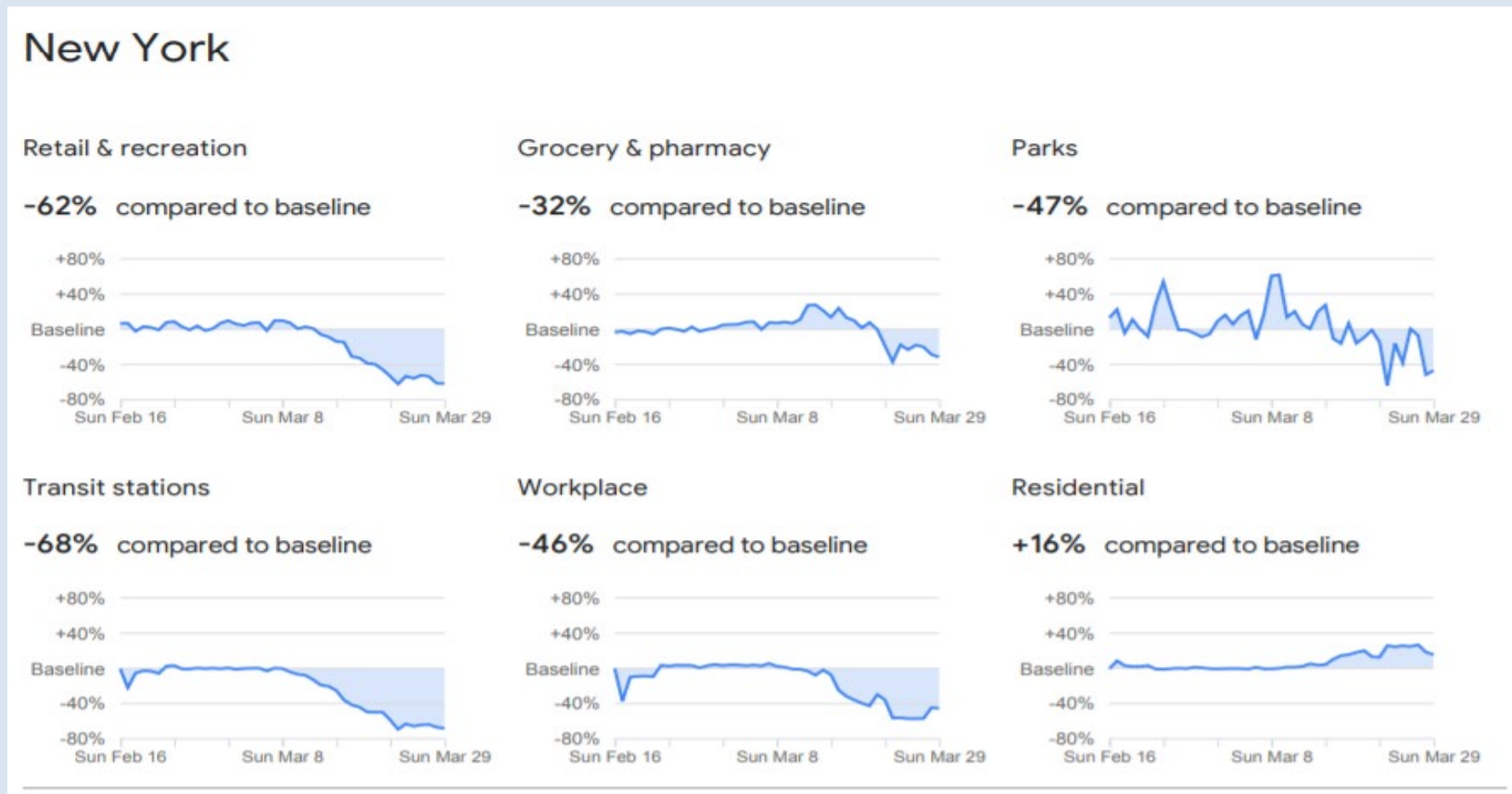
## US Community Mobility as Measured by Google GPS. Updated, April 2, 2020.





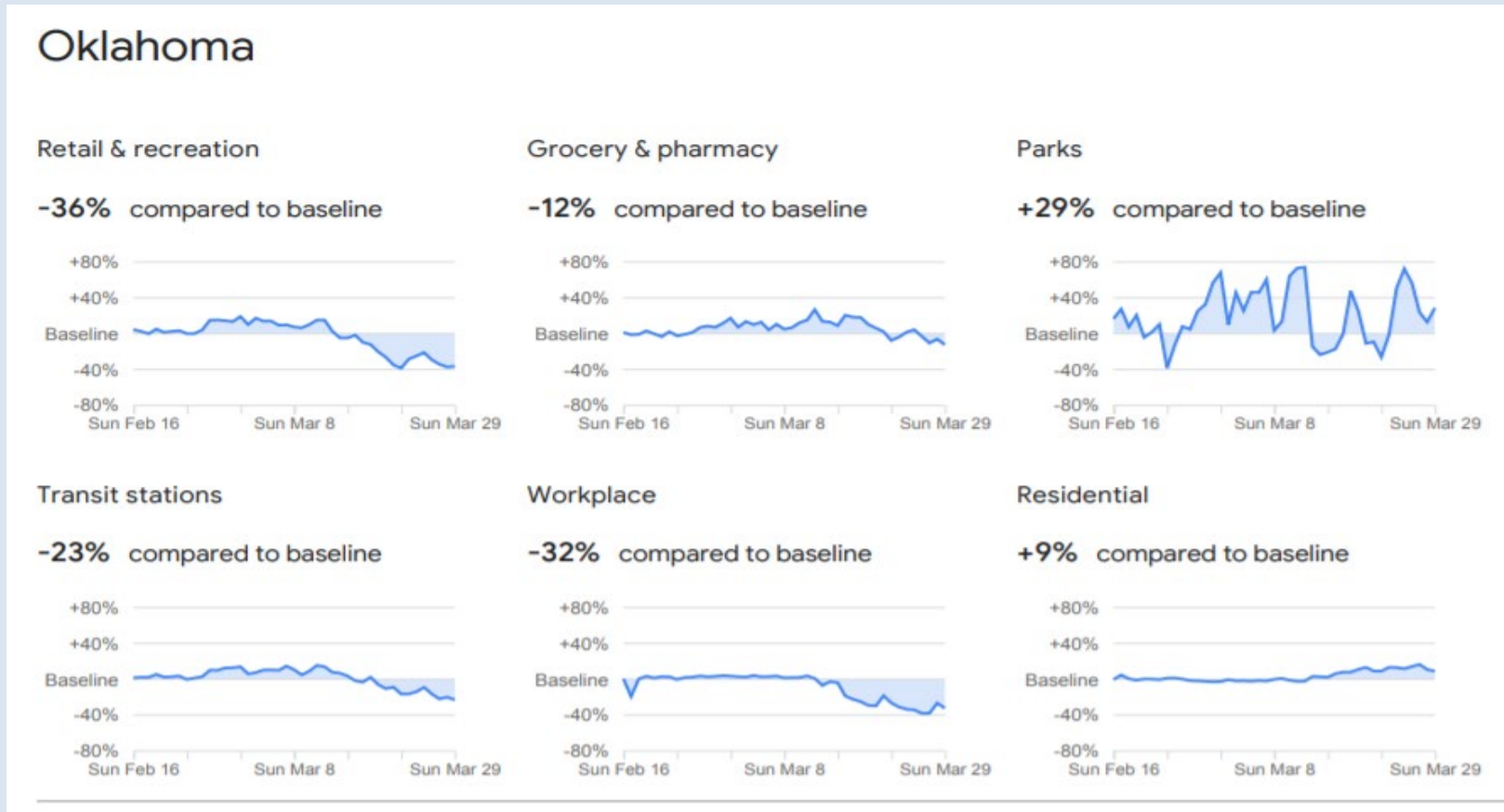
# NEW YORK MOBILITY

## New York Community Mobility as Measured by Google GPS. Updated, April 2, 2020.

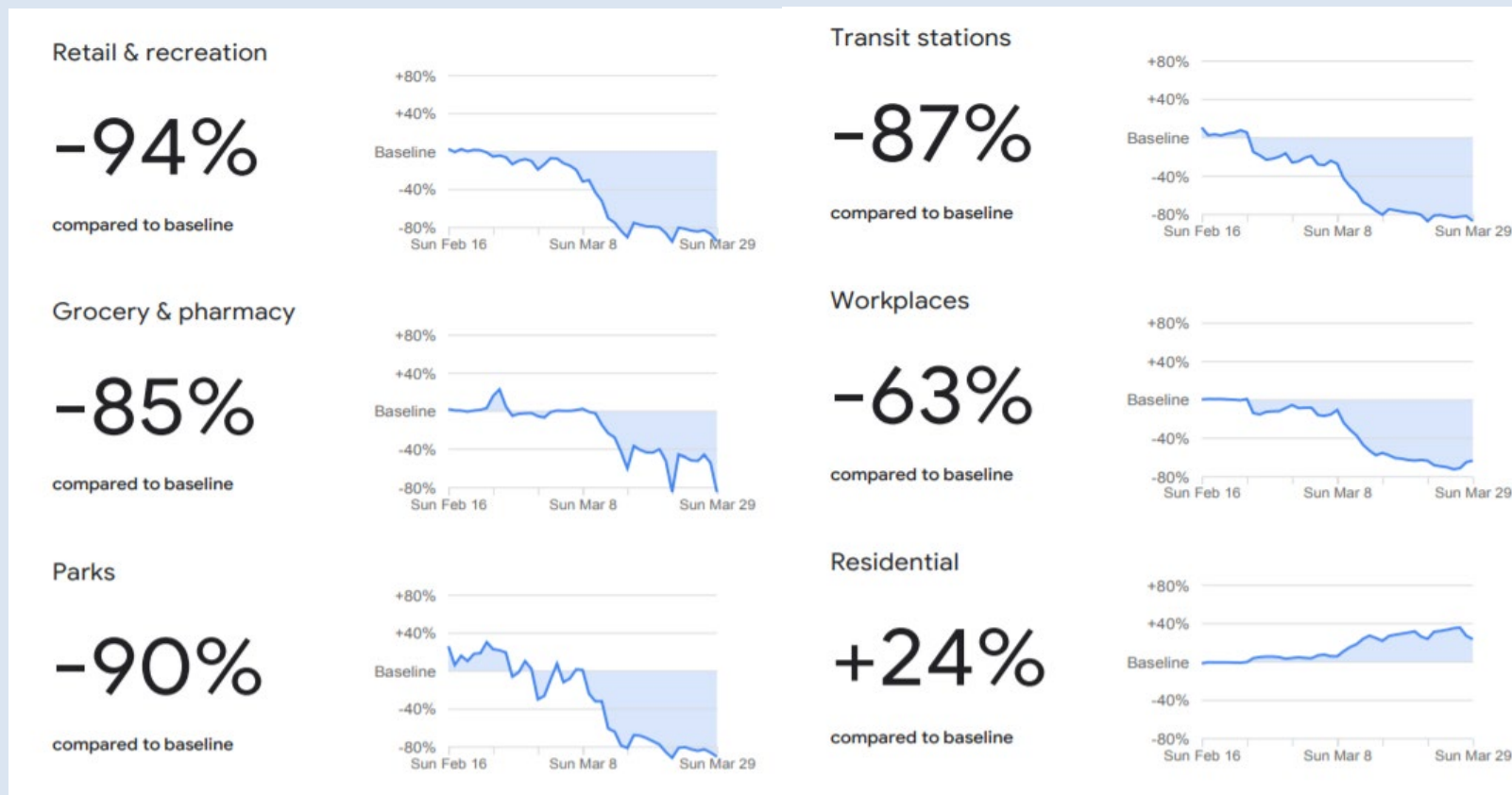


# OKLAHOMA MOBILITY

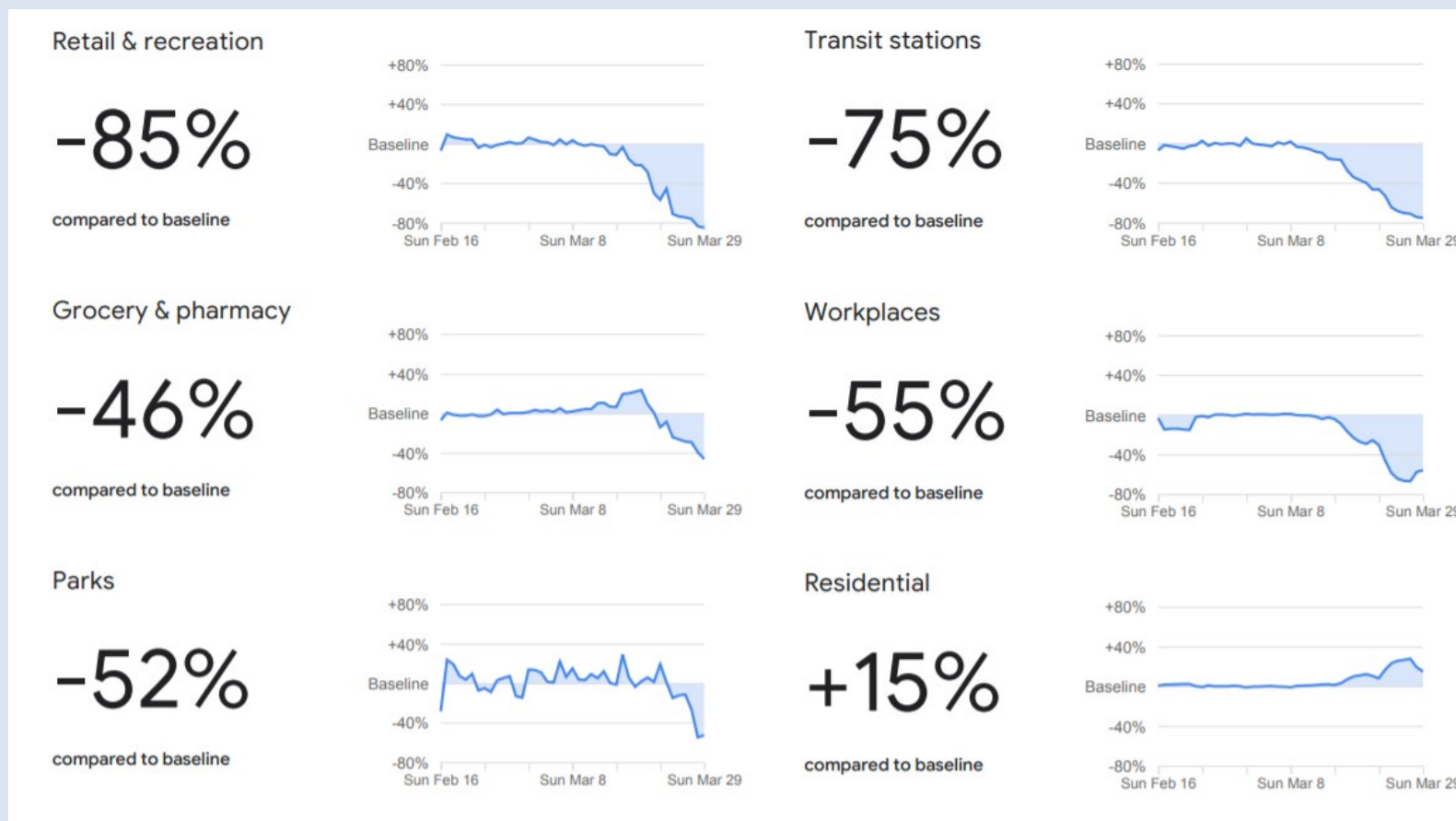
## Oklahoma Community Mobility as Measured by Google GPS. Updated, April 2, 2020.



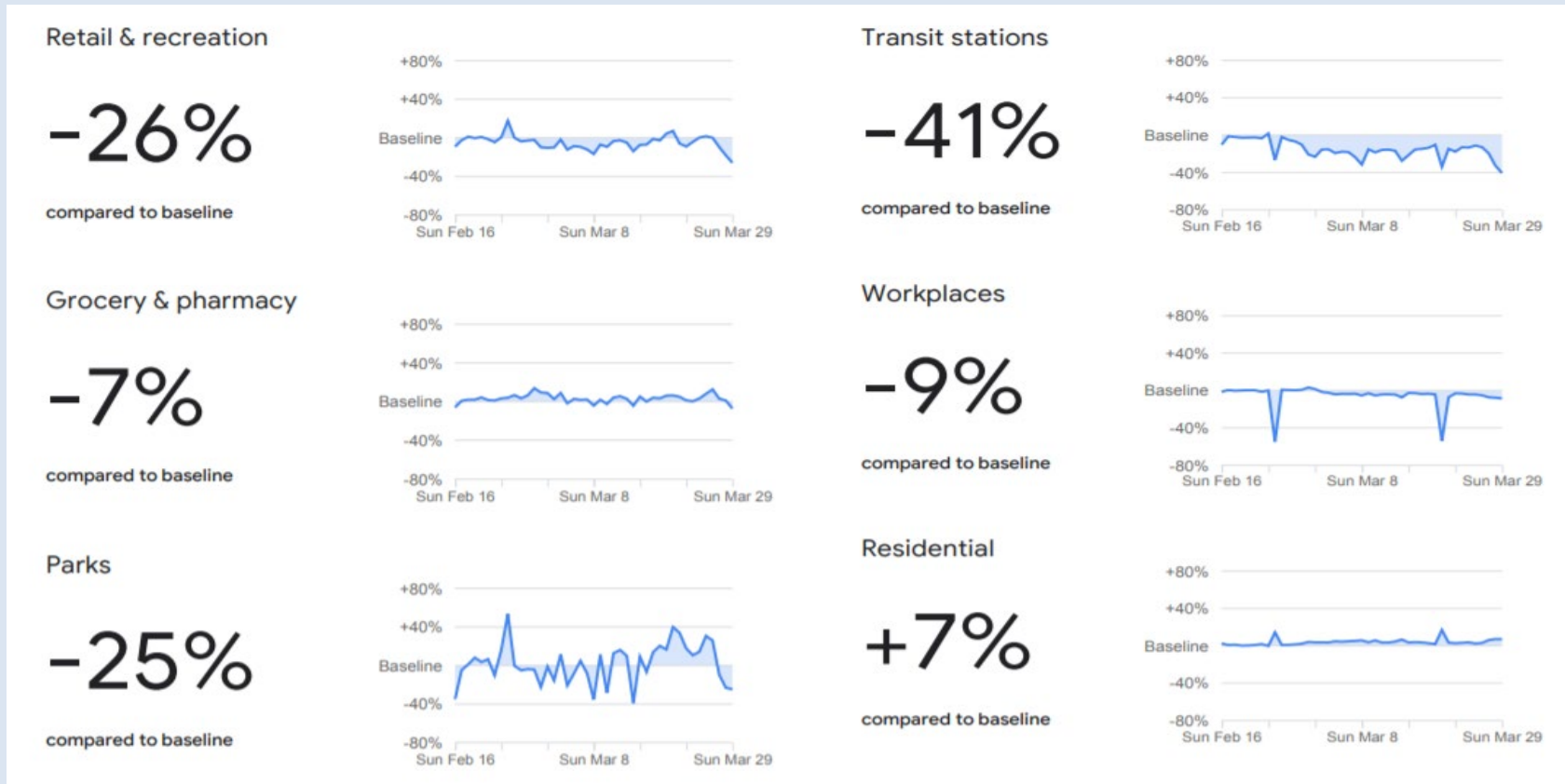
## Italy Community Mobility as Measured by Google GPS. Updated, April 2, 2020.



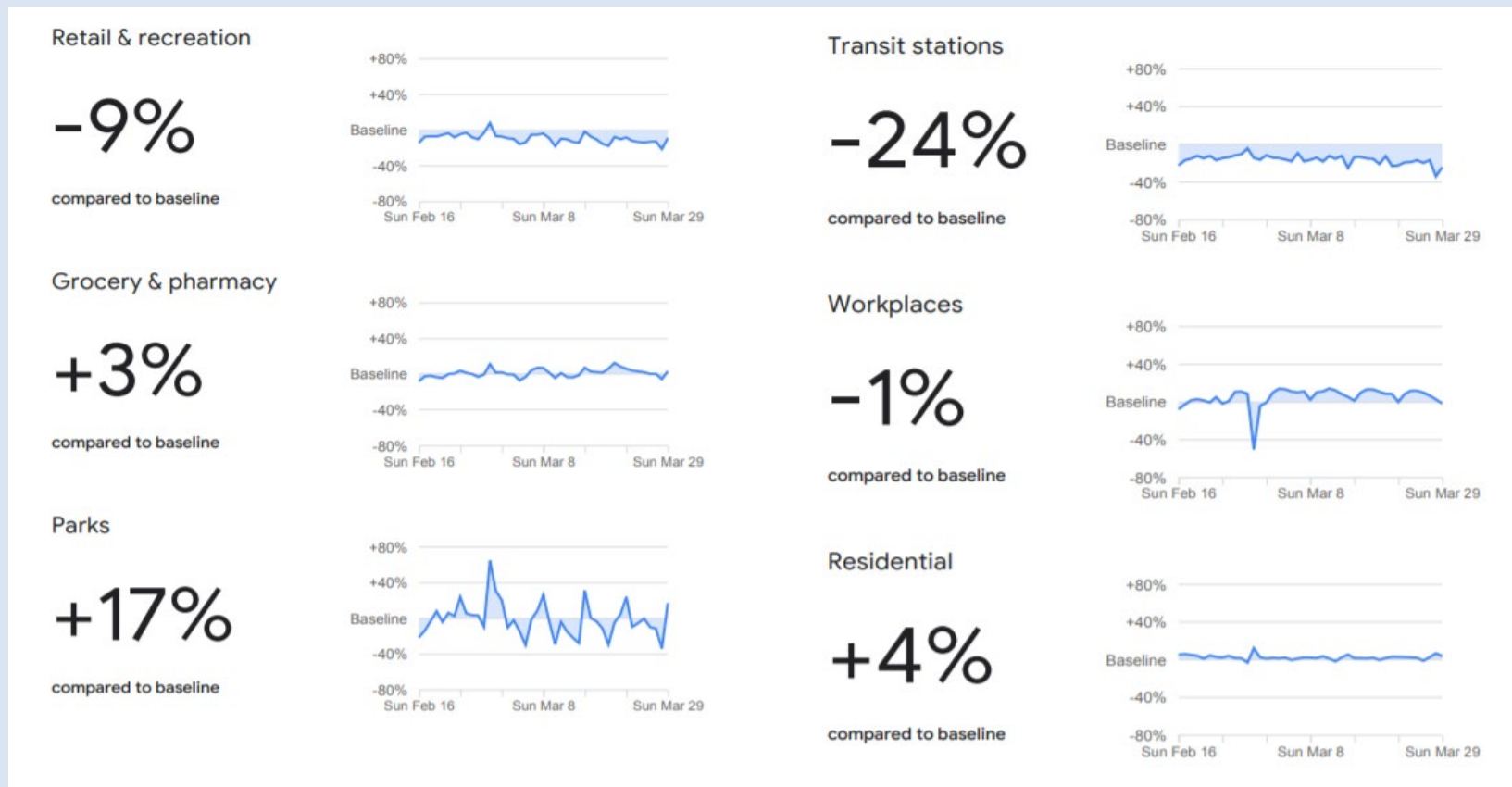
## UK Community Mobility as Measured by Google GPS. Updated, April 2, 2020.



## Japan Community Mobility as Measured by Google GPS. Updated, April 2, 2020.



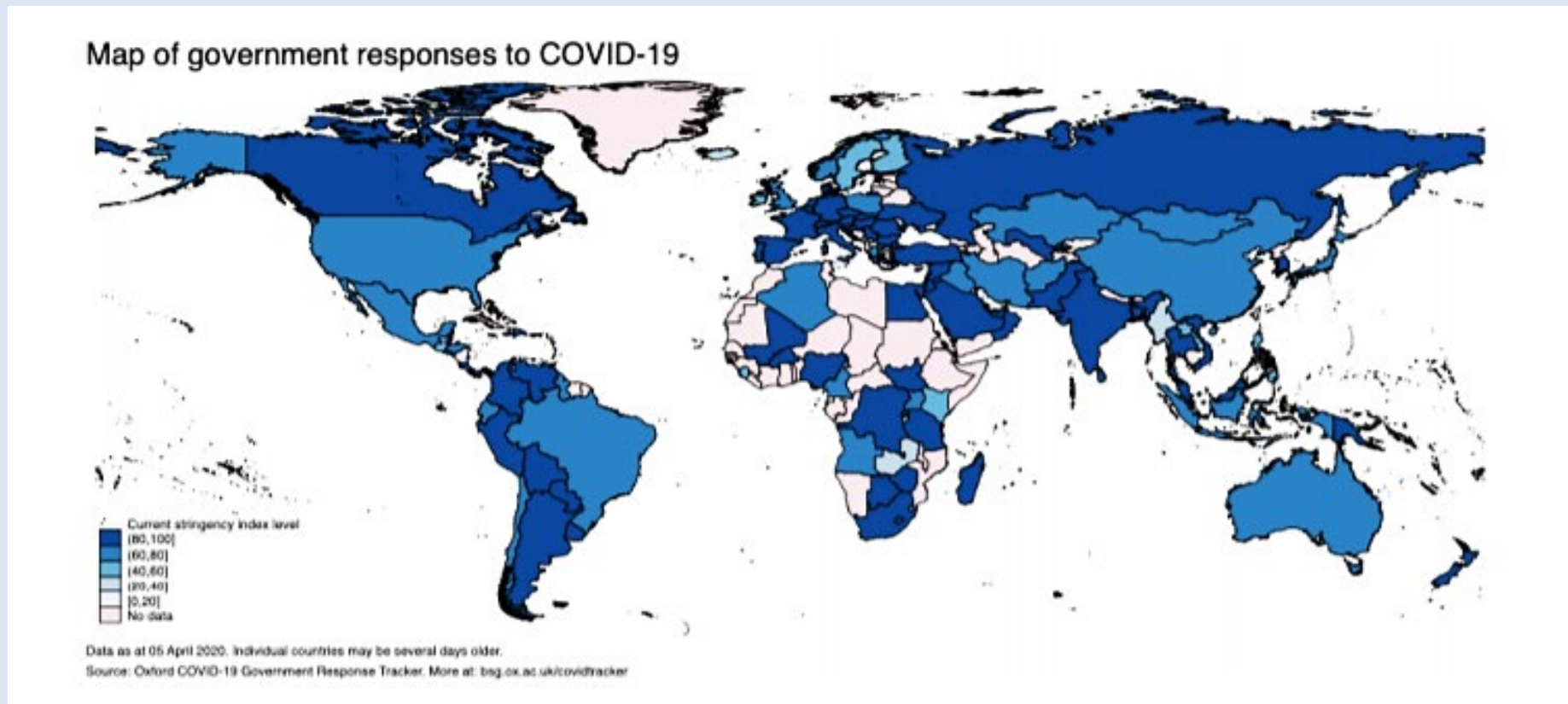
## Taiwan Community Mobility as Measured by Google GPS. Updated, April 2, 2020.





# US BEHIND REST OF THE WEST

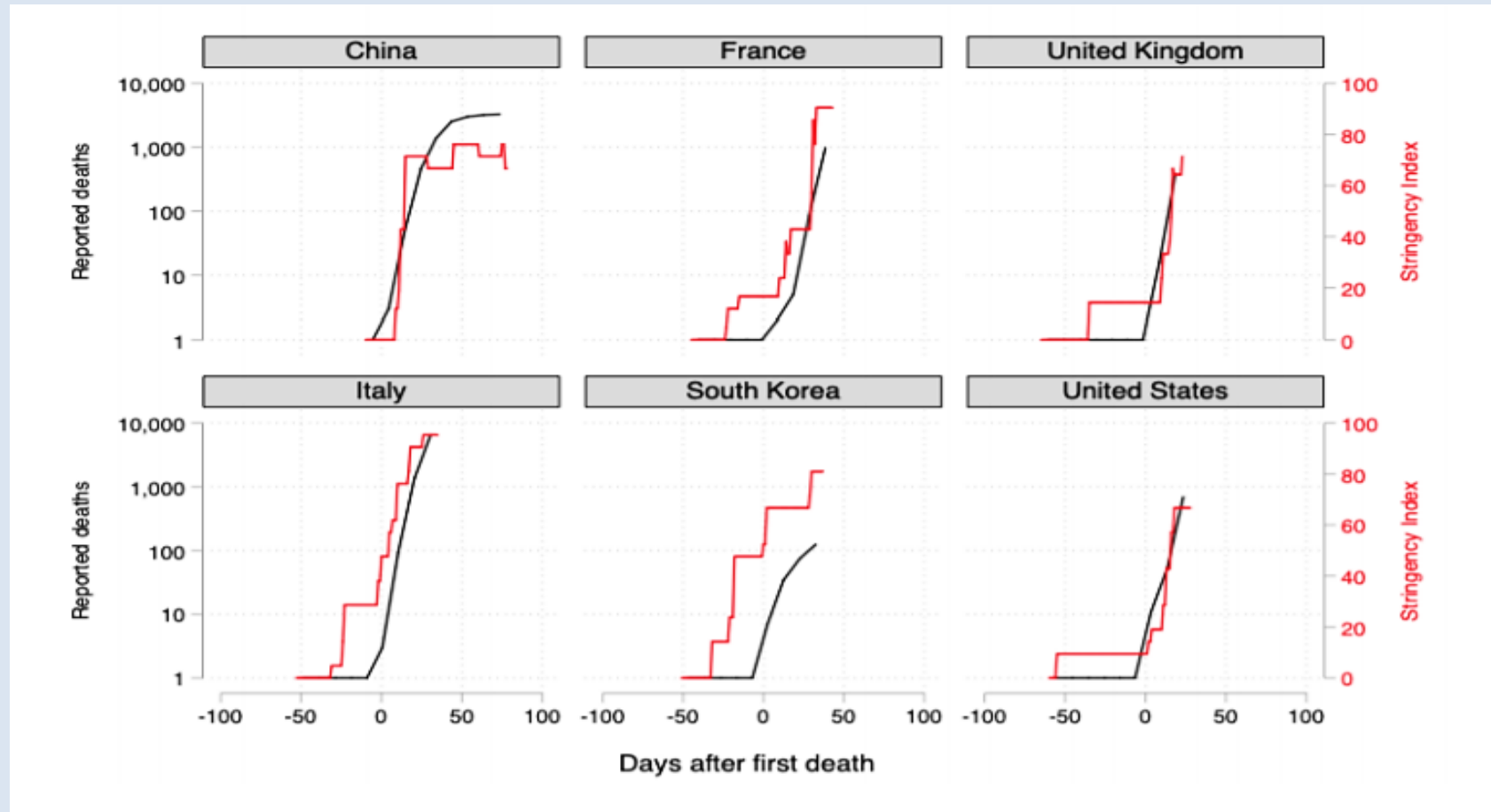
## COVID-19 Government Response Stringency Index by Country, April 5, 2020.





# GETTING TOUGH EARLY MAKES ALL THE DIFFERENCE

## Reported COVID-19 Deaths and Stringency Index, Selected Countries.



# WHY APPARENT DECLINE IN NON-C19 HOSPITAL VISITS?



**Angioplasty.Org** @angioplastyorg · Apr 2

Worldwide reports show significant reduction in STEMI/ACS admissions because patients are too afraid of #COVID19 to come to the hospital. How much reduction are you seeing? What do you advise someone experiencing MI symptoms? \*DM me to be contacted for an article I'm working on.\*

10-20% less MI/ACS	7.7%
20-40% less MI/ACS	24.6%
<b>40%-60% less MI/ACS</b>	<b>45.4%</b>
More than 60% reduction	22.4%

183 votes · Final results



## Cambios en la actividad de cardiología intervencionista durante la epidemia por COVID-19 en España

