

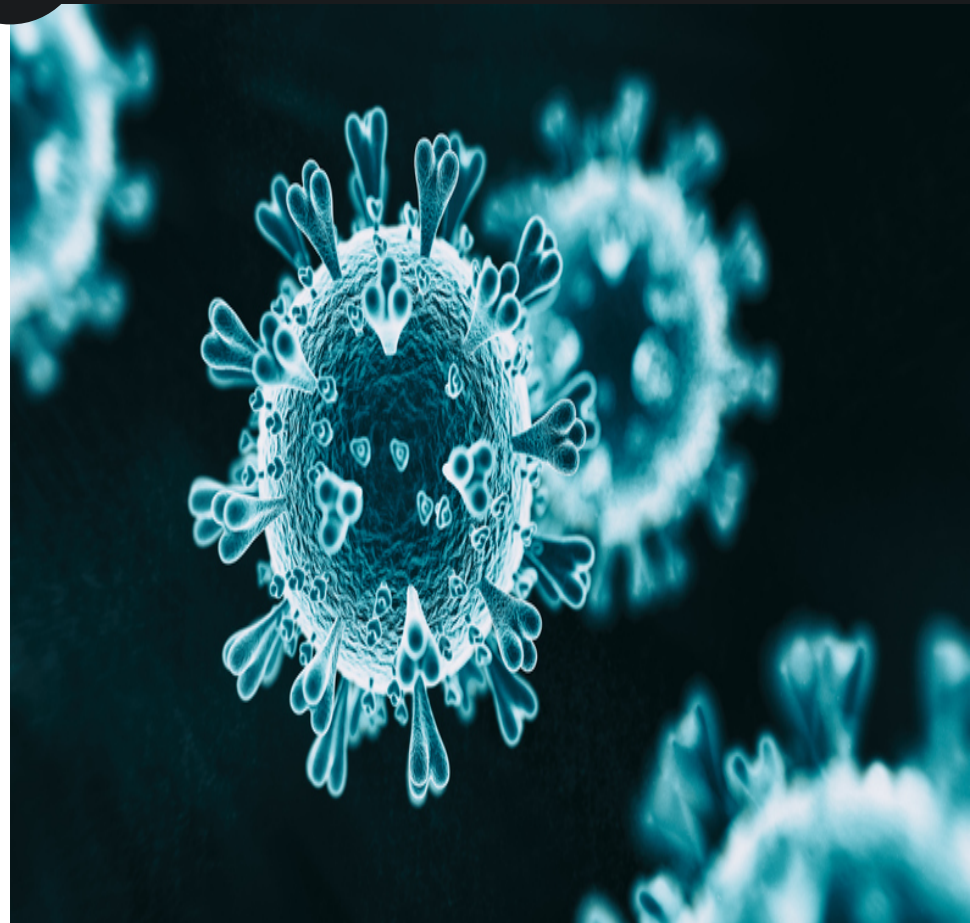


# AS THE WORLD ATTEMPTS TO REOPEN

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# A GLOBAL PROBLEM - OUTLINE

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**Quick review of data from overseas**

**Asia is months ahead of our curve – what can we learn?**

**Hong Kong**

**Taiwan**

**Singapore**

**Isolation & Leadership – best practices**

**New Zealand**

**Europe is at least several weeks ahead of our curve – what decisions are being made?**

**Sweden**

**Germany**

**Italy**

**France**

**!!! Getting into a lockdown is much easier than getting out !!!**

# A GLOBAL COMPARISON

Country	Total Cases / 1M Population	Country	Deaths / 1M Population
Spain	5,285	Belgium	677
Belgium	4,306	Spain	540
USA	3,547	Italy	478
Italy	3,485	Sweden	265
Singapore	3,112	USA	206
Sweden	2,210	Germany	81
Germany	1,972	NZ / AUS	4
New Zealand	308	Singapore	3

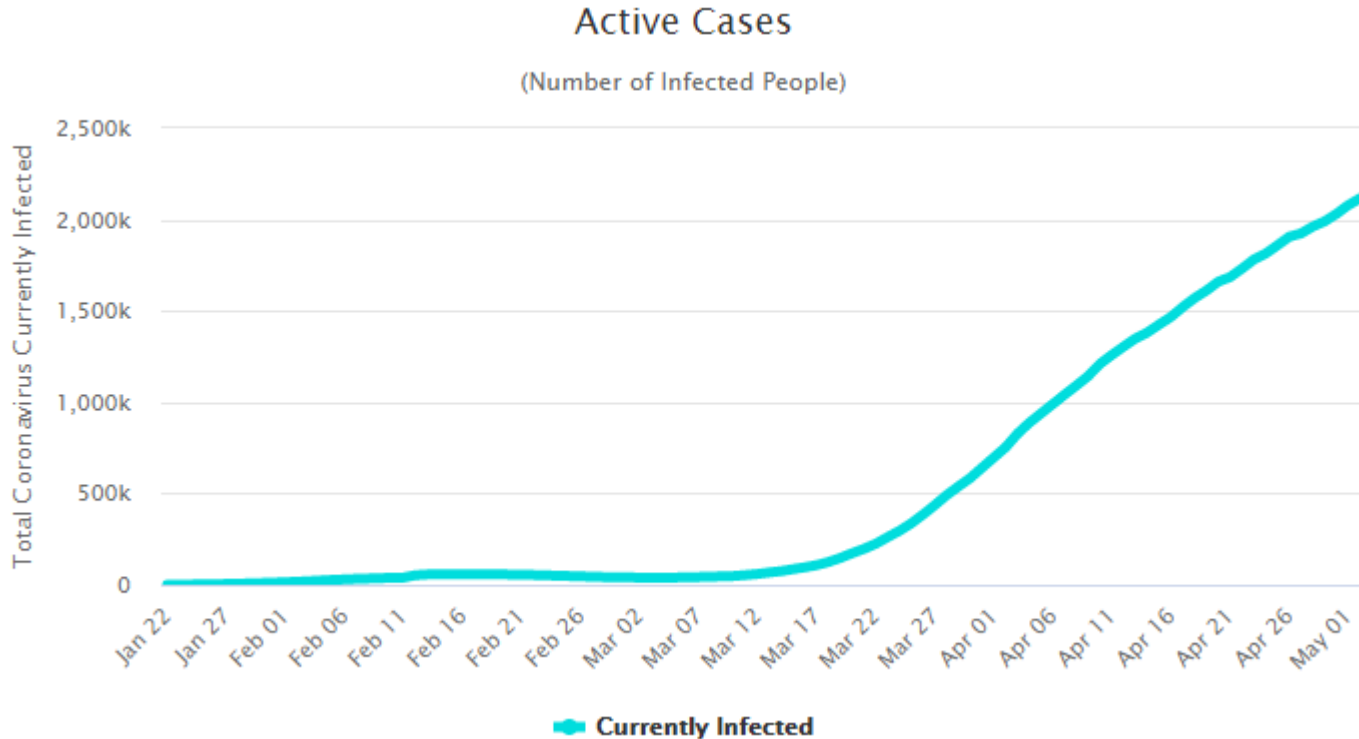
We acknowledge that different countries test at different levels.

Deaths may be attributed or counted differently.

Yet there is enough data to see patterns.

# GLOBAL ACTIVE CASES

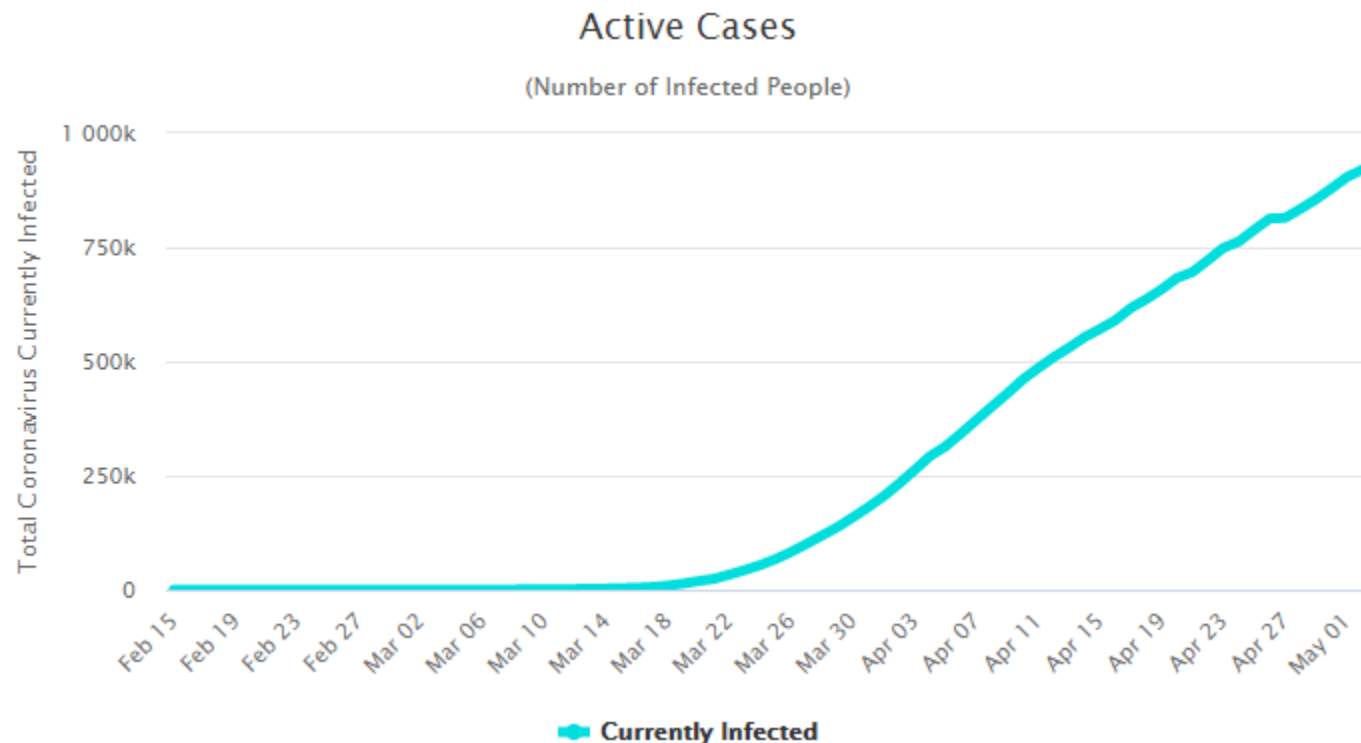
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By removing deaths & recoveries from total cases, we get "currently infected cases" / "active cases" (cases still awaiting an outcome)

# US ACTIVE CASES

6



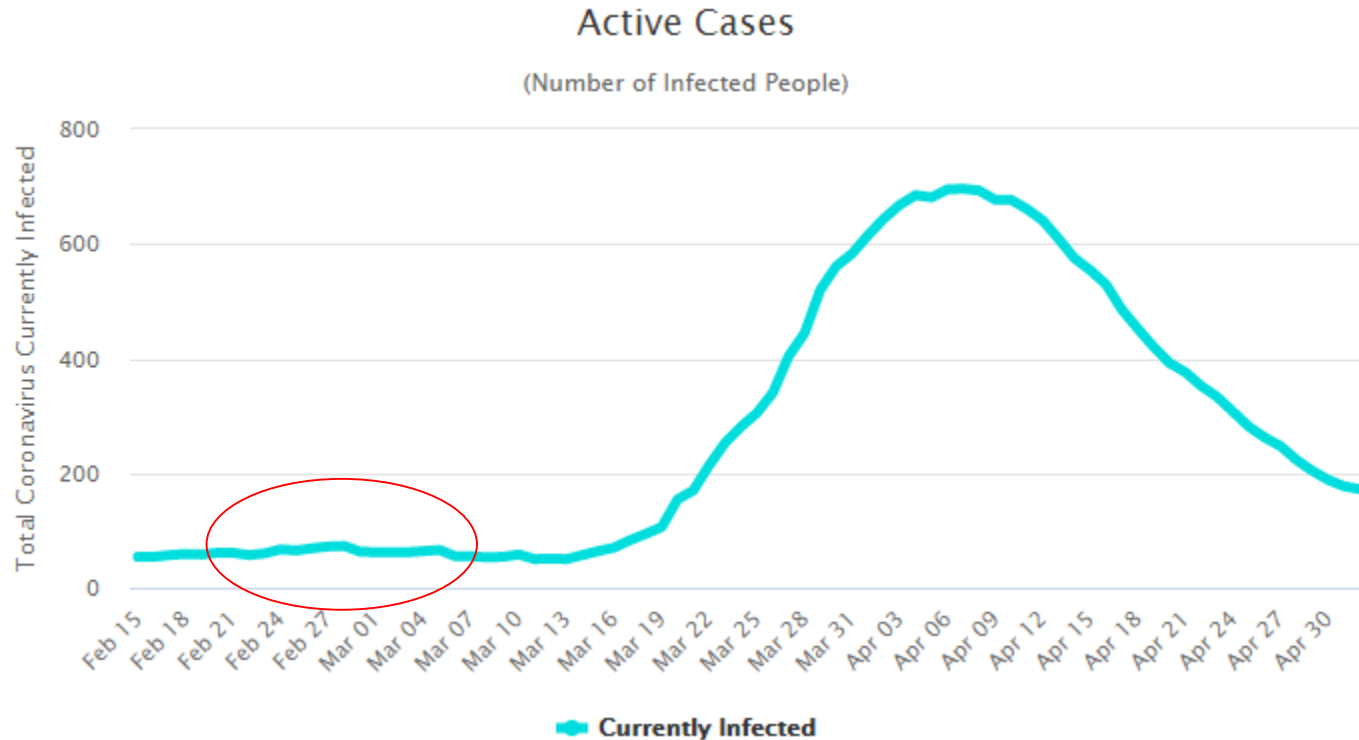
Similar to the  
“Global”  
graph.

920,012 as of  
5/1

3,484 as of  
3/15

# HONG KONG ACTIVE CASES

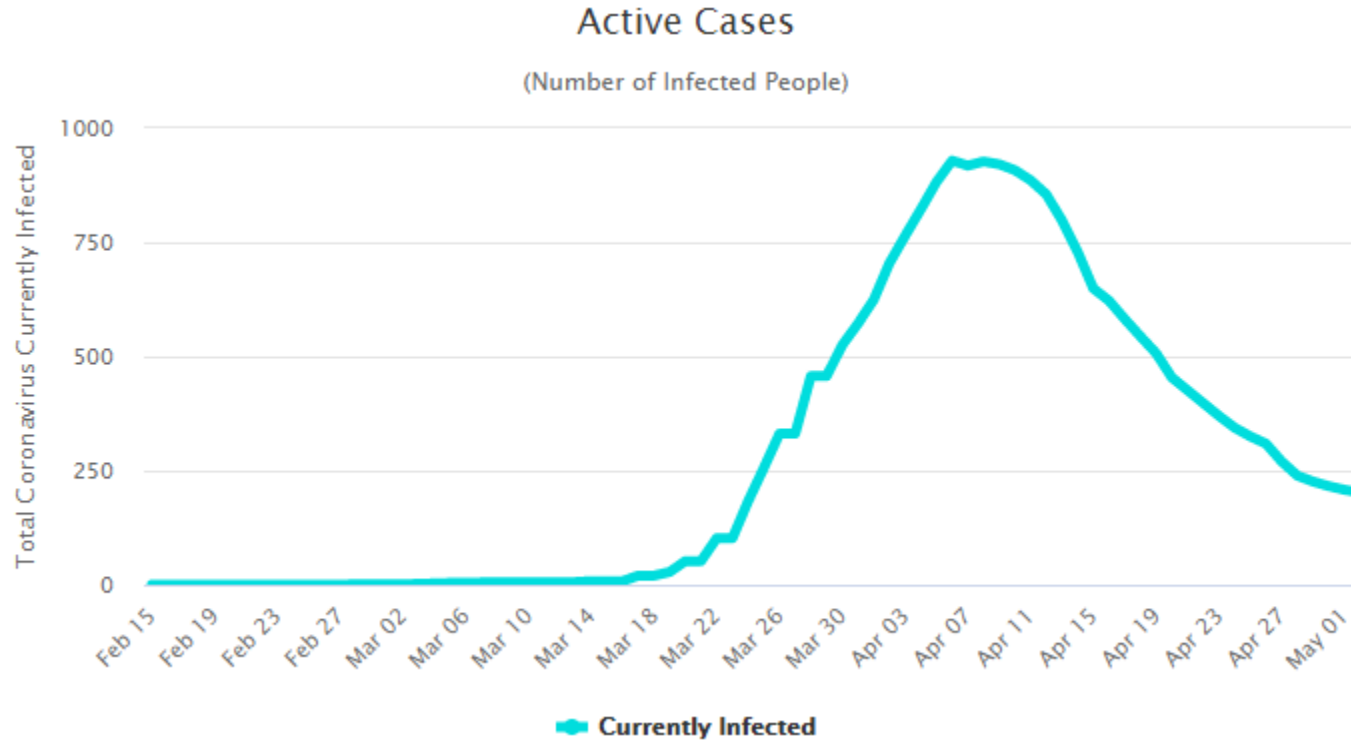
7



1<sup>st</sup> wave peak  
on 2/28 at 73

2<sup>nd</sup> wave  
peak on 4/7  
at 694

# NEW ZEALAND ACTIVE CASES



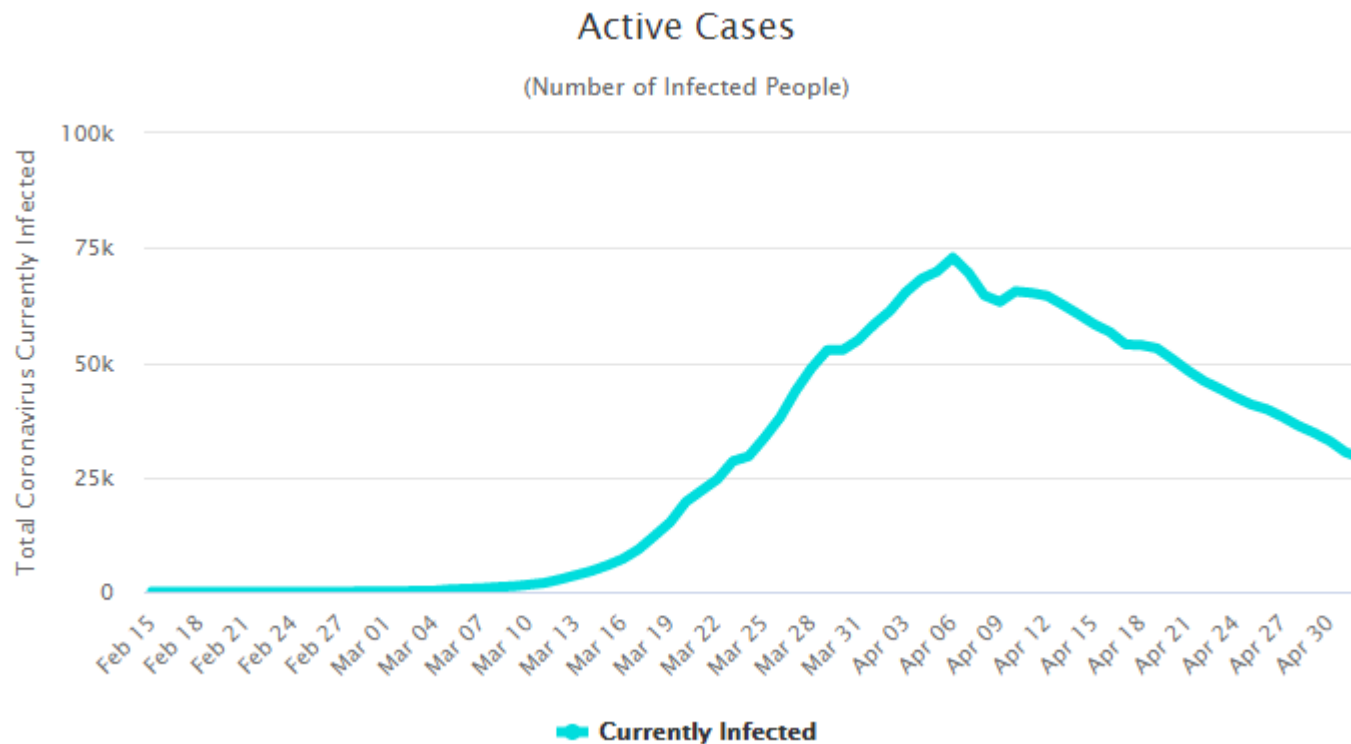
Peak on 4/6  
at 929

202 as of 5/2



# GERMANY ACTIVE CASES

9

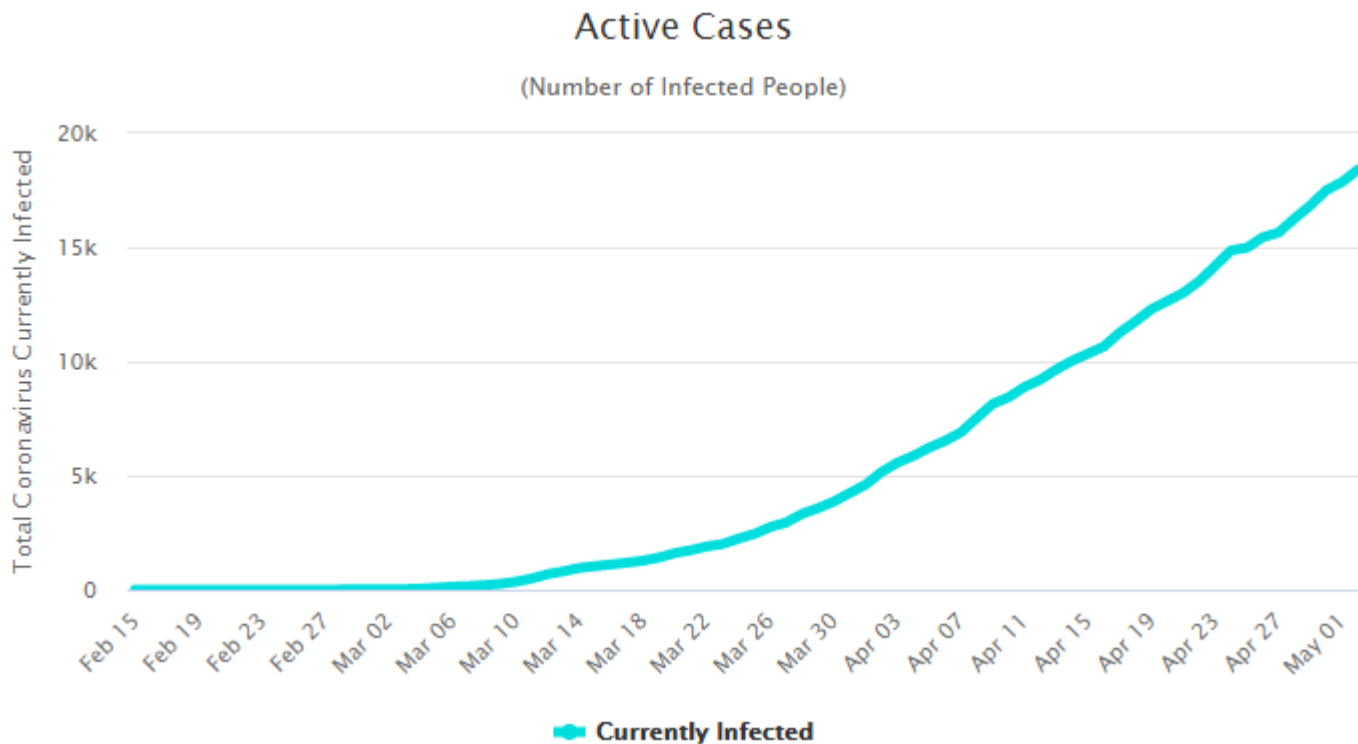


Peak on 4/6 at  
72,865

29,155 as of  
5/2

# SWEDEN ACTIVE CASES

10



Different  
policy  
approach

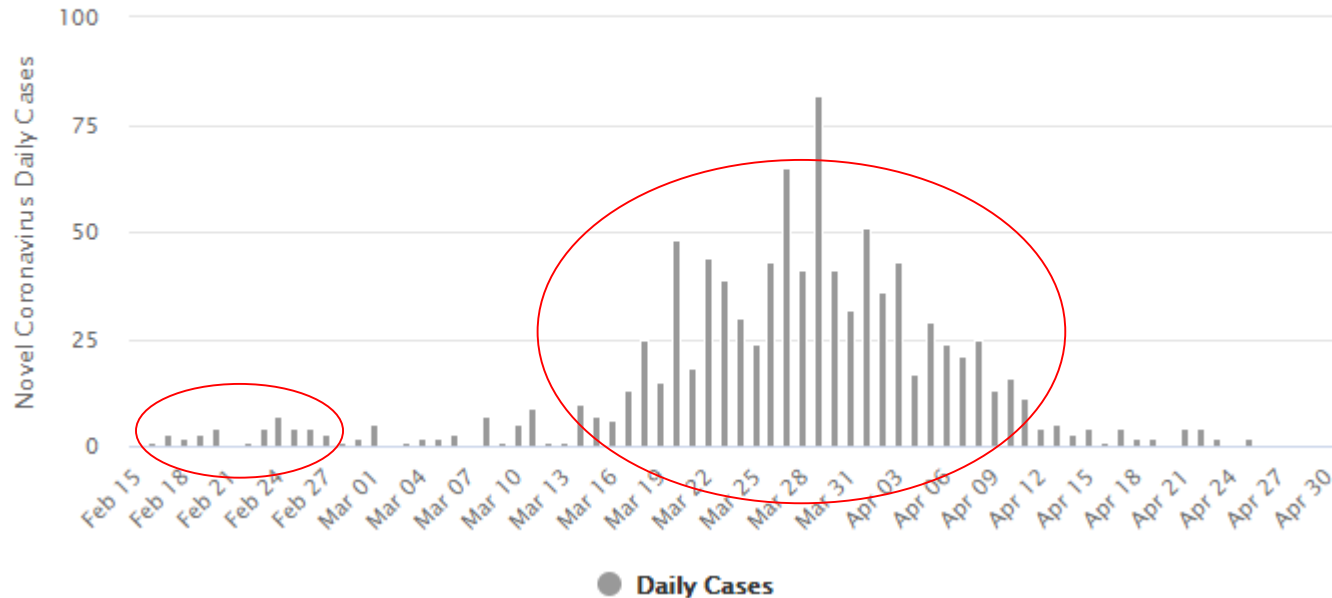
And the line  
looks quite  
similar to that  
of the US

# HONG KONG – THE DATA

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## Daily New Cases

Cases per Day  
Data as of 0:00 GMT+0



1,040 Total Cases

4 deaths

Hong Kong knows that defeating the virus requires persistence.

# HONG KONG – THE POLICIES

- Early detection of pandemic due to proximity & being part of the PRC. Reaction driven by the people's memories of SARS & community response, not HK Gov't.
- On 2 March, with only ~100 confirmed cases, 180,000 civil servants returned to their offices as did private employers.
- By 16 March, cases (both imported & local spread) started to move up.
- Now Government is looking for up to 28 days (2 virus incubation periods) without new locally transmitted cases. Day 1 was 4/20.

Virus crisis comes on the heels of 1 yr of social unrest.

Don't want to fall victim to another wave.

How to reopen travel?  
Macao?

# THE PEOPLE OR THE GOVERNMENT?

## How has the Hong Kong government responded to the outbreak?

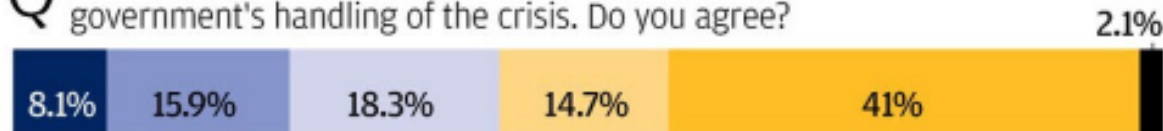
Crisis management

Strongly agree   Agree   Neutral  
Disagree   Strongly disagree   No comment

Q If Hong Kong avoids a large-scale epidemic, it will be due to the community response. Do you agree?



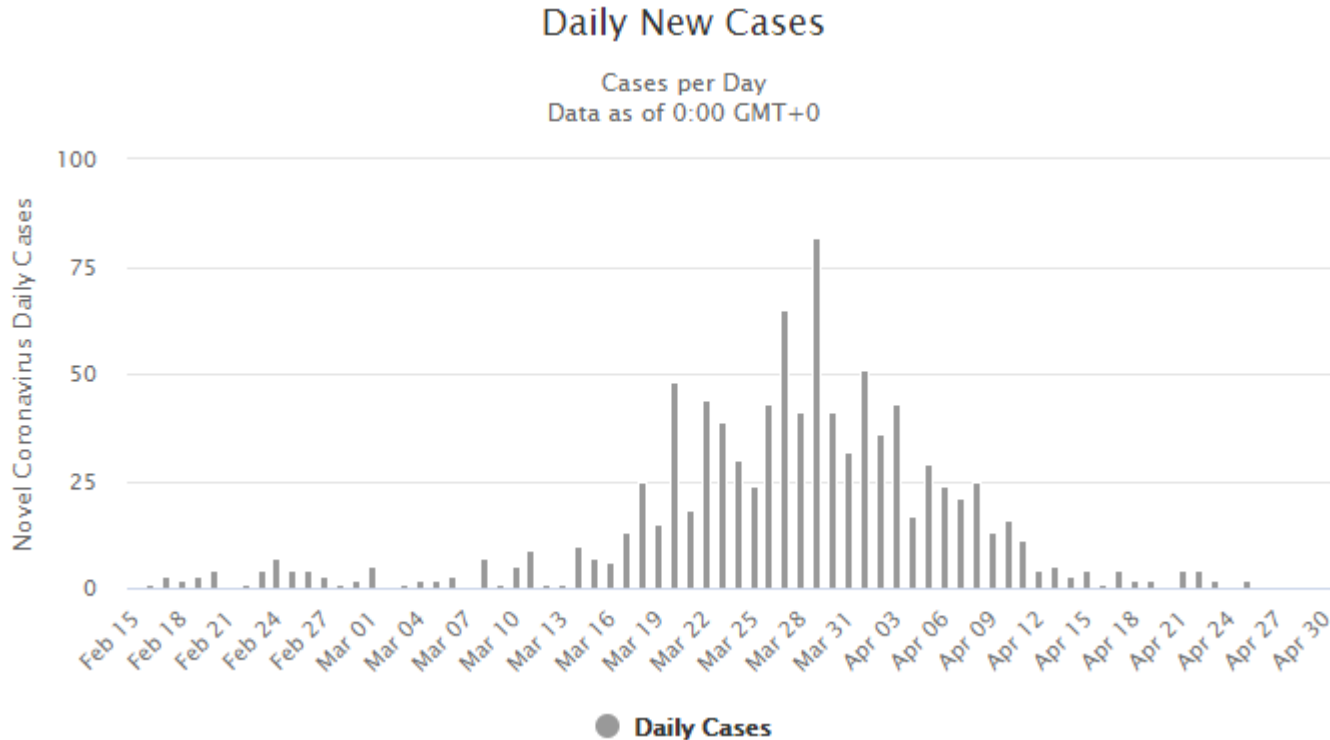
Q If Hong Kong avoids a large-scale epidemic, it will be due to the government's handling of the crisis. Do you agree?



Even if the Government is not trusted, success against the virus can be achieved!

# TAIWAN – THE DATA

14



Out of a population of 23.8M, Taiwan's Government managed to limit the spread

432 cases or 18/M

8 deaths or 0.3/M

- Driven by memories of SARS  
= Masks + Travel Ban.
- Aggressive Test + Trace.
- Global Travel Ban: Avoid all nonessential travels - 14 day self quarantine required upon arrival.
- No transit traffic through Taiwan.

Monitoring started on 12/31 after hearing unconfirmed reports of an outbreak.

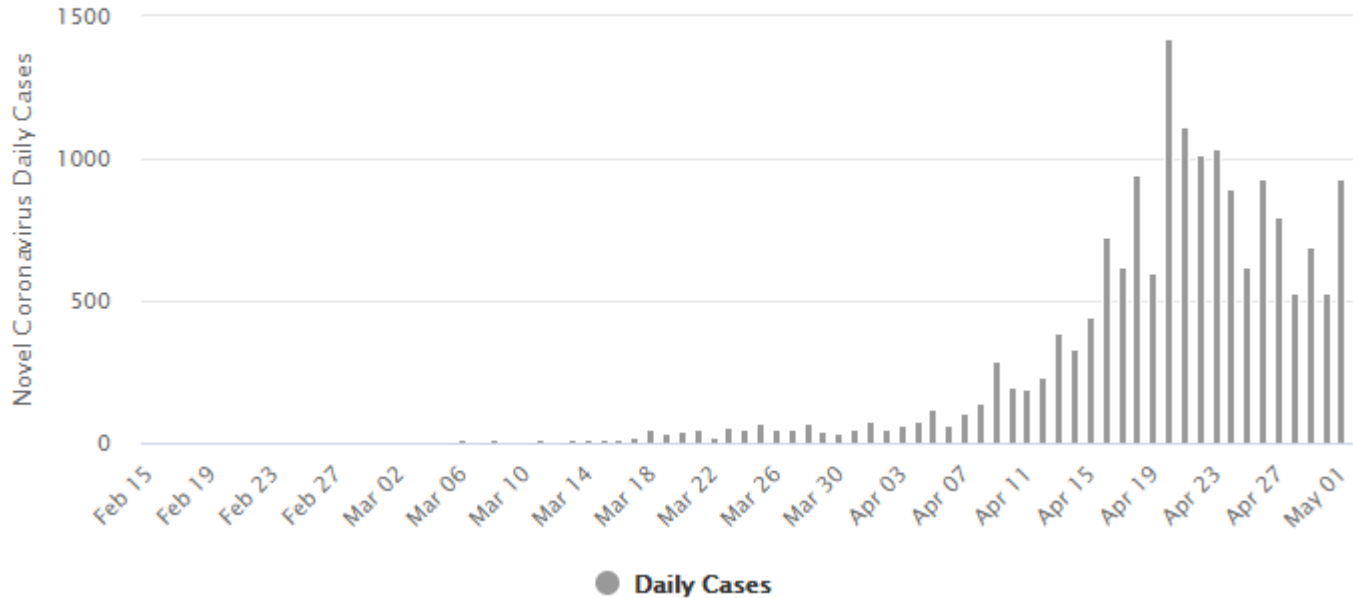
First case: 1/21

No mass lockdown given early preventative measures.

# SINGAPORE – THE DATA

## Daily New Cases

Cases per Day  
Data as of 0:00 GMT+0



Initial cluster of travelers from Wuhan introduced the Virus in late January.

After controlling the 1<sup>st</sup> wave, letting guard down, cases exploded.

On the Equator.



# SINGAPORE – THE POLICIES

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- Strict stay-at-home.
- Starting 5 May, Traditional Chinese Medicine shops allowed to reopen to sell retail products.
- Starting 12 May, some food related business may reopen as will retail laundry, barber shops.
- Graduating students in small groups return for face-to-face instruction.
- Will roll-back additional Circuit Breaker measures, if situation is “under control.”
- After Circuit Break expires, many will still work from home, social distancing will continue.

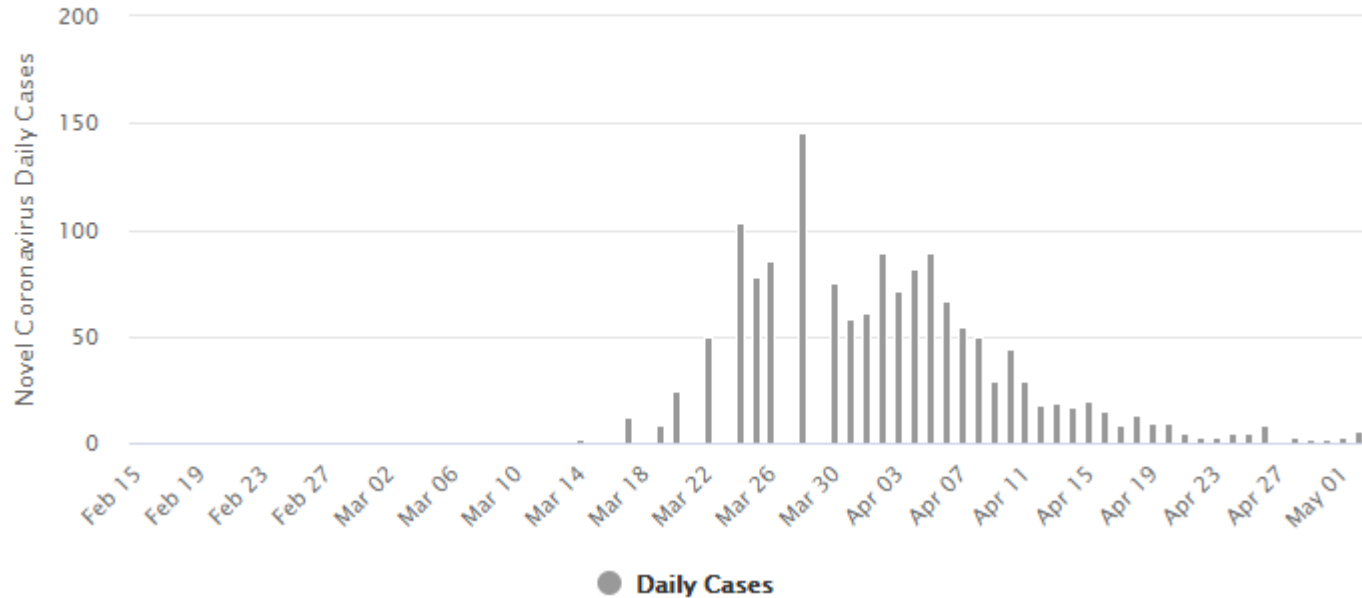
Circuit Breaker until 1 June.

Want community cases to drop to zero.

Not using R0 as a single indicator, “unlike others.”

## Daily New Cases

Cases per Day  
Data as of 0:00 GMT+0



Isolation and distance from ROW maximizes the chance of success.

# NEW ZEALAND – THE POLICIES

- Strictly enforced quarantine, extensive testing and contact tracing.
- Closed all beaches, playgrounds, offices, schools, bars and restaurants, incl. takeaway & delivery.
- PM Ardern's leadership and communication style has been praised all around.
  - Developed trust & togetherness among population – empathy, Be Kind, etc.
  - “Bubbles”

Goal: Eradicate the virus

Decisive early action, banning travelers from China in early Feb, closing its borders to all non-residents in mid-March

4 lockdown levels, clear designations and criteria

# COVID-19 ALERT SYSTEM

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## *Level 4 – Lockdown 3/26 – 4/27*

### **Risk assessment**

Community transmission is occurring.  
Widespread outbreaks and new clusters.

### **Range of measures**

People instructed to stay at home (in their bubble) other than for essential personal movement.

Safe recreational activity is allowed in the local area.

Travel is severely limited.

All gatherings cancelled and all public venues closed.

Businesses closed except for essential services, such as supermarkets, pharmacies, clinics, petrol stations, and lifeline utilities.

Educational facilities closed.

Rationing of supplies and requisitioning of facilities possible.

Reprioritization of healthcare services.

## *Level 3 – Restrict as of 4/28*

### **Risk assessment**

Community transmission might be happening.  
New clusters may emerge but can be controlled through test and trace.

### **Range of measures**

People instructed to stay home in their bubble other than for essential personal movement — including to go to work, school if they have to or for local recreation.

Physical distancing of 2m outside home (incl. on public transport), or 1m in controlled environments like schools & workplaces.

Bubbles must stay within their immediate household bubble, but can expand this to reconnect with close family/whānau, or bring in caregivers, or support isolated people. This extended bubble should remain exclusive.

Schools (years 1 to 10) & Early Childhood Education centres can safely open, but will have limited capacity. Children should learn at home if possible.

People must work from home unless that is not possible.  
Businesses can open premises, but cannot physically interact with customers.

Low risk local recreation activities are allowed.

Public venues are closed. This includes libraries, museums, cinemas, food courts, gyms, pools, playgrounds, markets.

Gatherings of up to 10 people are allowed but only for wedding services, funerals and tangihanga. Physical distancing & public health measures maintained.

Healthcare services use virtual, non-contact consultations where possible.

Inter-regional travel is highly limited to, for example, essential workers, with limited exemptions for others.

People at high risk of severe illness (older people and those with existing medical conditions) are encouraged to stay at home where possible, and take additional precautions when leaving home. They may choose to work.

## *Level 2 – Reduce Subject to revision and timing*

### **Risk assessment**

Household transmission could be occurring.  
Single or isolated cluster outbreaks.

### **Range of measures**

Physical distancing of 1m outside the home (incl. on public transport).

Gatherings of up to 100 ppl indoors & 500 outdoors allowed while maintaining physical distancing & contact tracing requirements.

Sport & recreation activities allowed if cond on gatherings met, physical distancing followed & travel is local.

Public venues can open but must comply with conditions on gatherings, and undertake public health measures.

Health services operate as normally as possible.

Most businesses open & business premises can be open for staff & customers with appropriate measures in place.

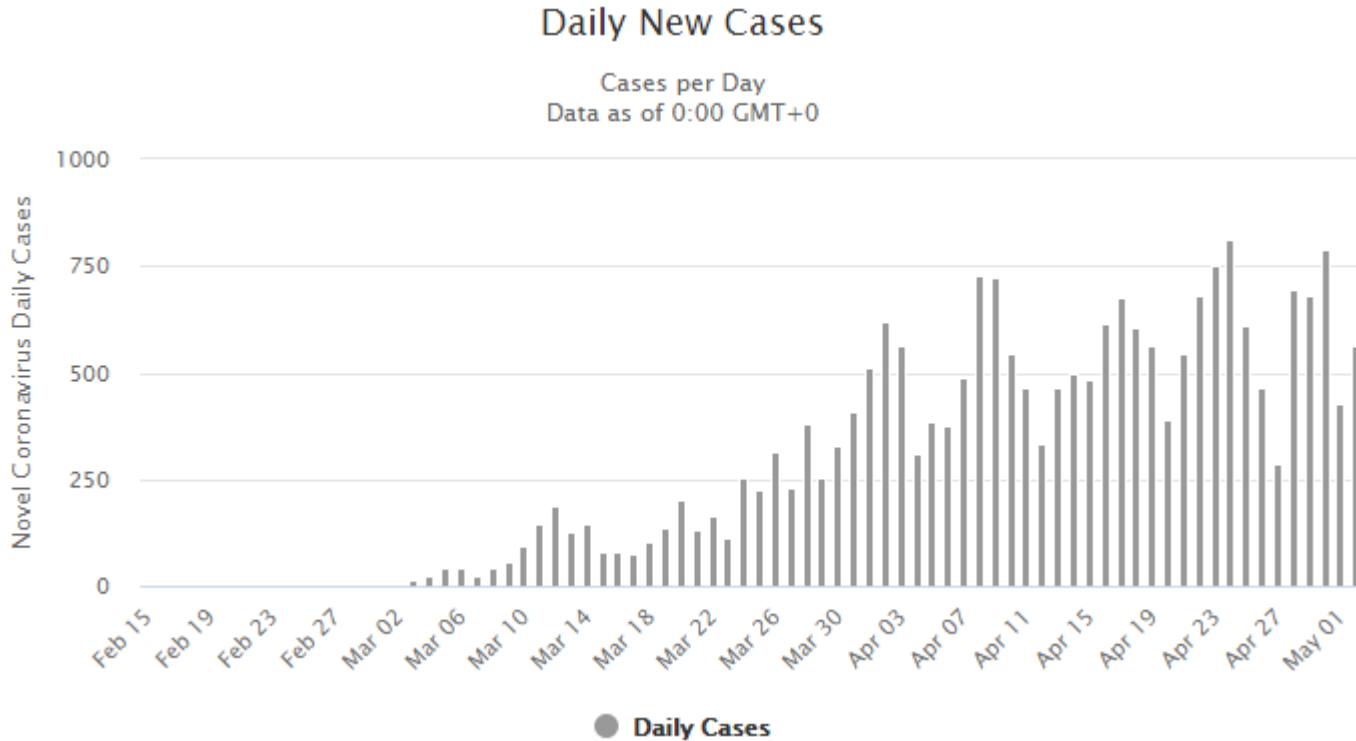
Alternative ways of working are encouraged, such as remote working, shift-based working, physical distancing, staggering meal breaks, flexible leave.

Schools & Early Childhood Education centres open, with distance learning available for those unable to attend school.

People advised to avoid non-essential inter-regional travel.

People at high risk of severe illness (older people and those with existing medical conditions) are encouraged to stay at home where possible, and take additional precautions when leaving home. They may choose to work.

# SWEDEN – THE DATA



Goal: Learn to live with disease from the outset.

Believe that based on a high level of trust present in Swedish society, their approach is best for Sweden.

# SWEDEN – THE POLICIES

- No bans – simply asking population to be sensible.
- Hoping for Herd Immunity – though science on this is not proven.
- Willing to accept a higher death count vs. economic impact in the short term – but argue that in the end deaths will even out.
- Many of the policies now being enacted in Central Europe have already been in place in Sweden.

Believe they can maintain the current level of economic activity for the intermediate term.

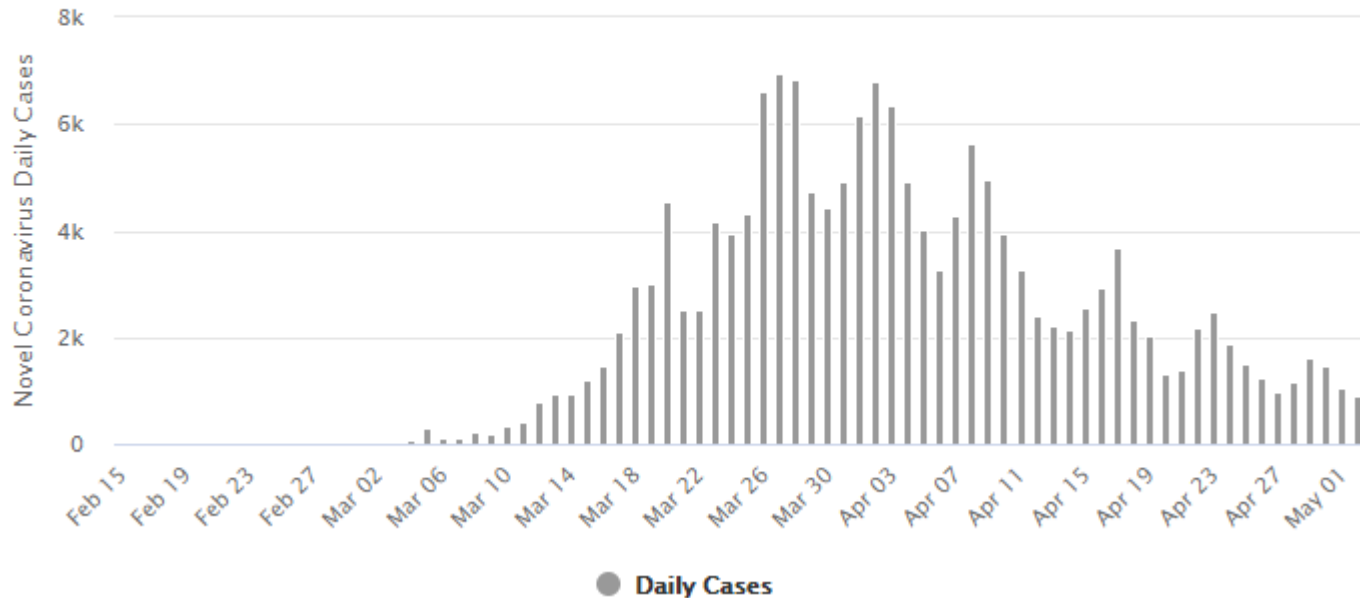
Not without controversy among Swedish doctors and scientists.

# GERMANY – THE DATA

23

## Daily New Cases

Cases per Day  
Data as of 0:00 GMT+0



Outstanding coordination between well-funded scientific-research organizations, (incl. public-health agencies such as the Robert Koch Institute) and the country's network of public universities

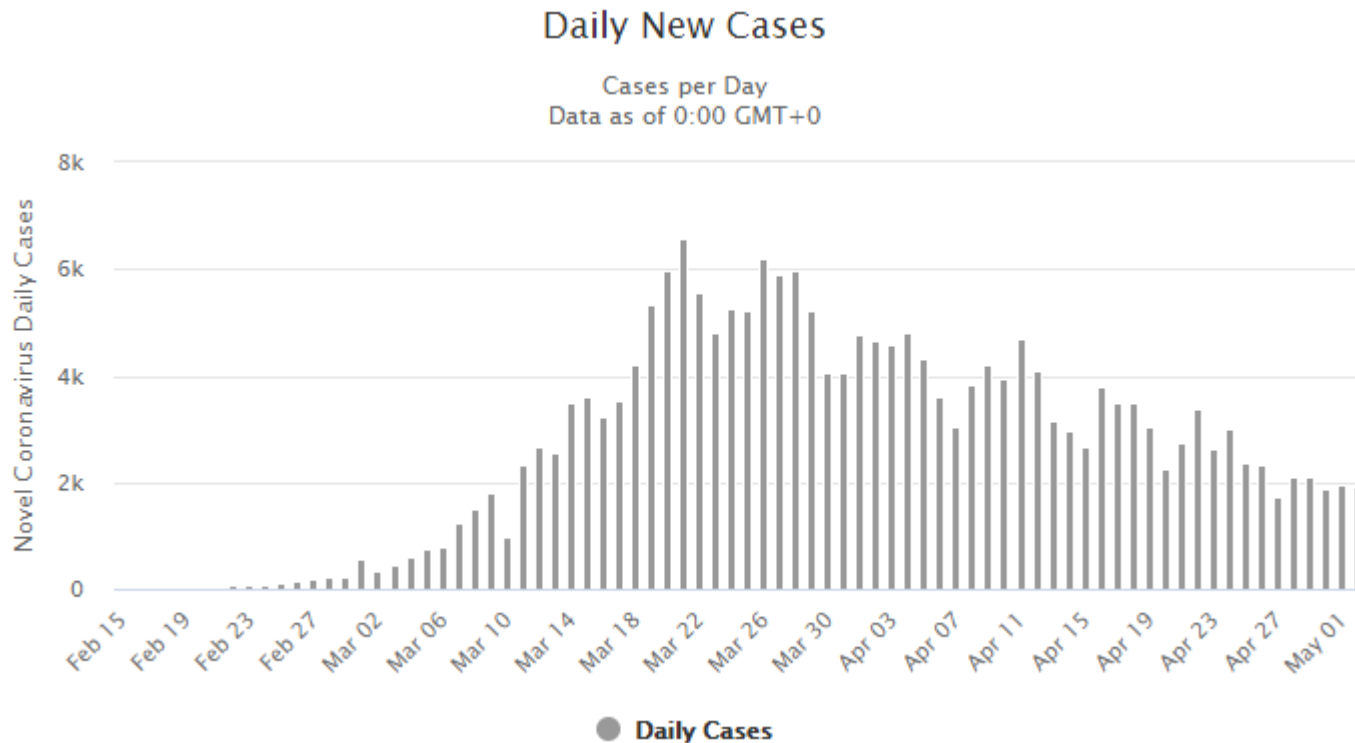
# GERMANY – THE POLICIES

- Starting 4 May, some Laender (mostly in the east) are allowing the reopening of salons, museums, zoos, schools, etc.
- Other Laender are targeting 11 May, to reopen all retail stores. Previously limited to stores smaller than ~8,000 sqf.
- Struggling to come up with uniform, national policy – challenging given the federal nature of Germany's governmental structure.
- General agreement that everyone needs to keep 1.5m distance from other people, otherwise legally required to wear a mask.
- Foreign travel restrictions to remain in place.
- Continuation of Bundesliga season

Chancellor Merkel would like uniform rules and regulations, but is struggling with regional and special interests.



# ITALY – THE DATA



After being hit hard, an extensive & strict lockdown is slowly paying off.

# ITALY – THE POLICIES

- Starting 4 May:
  - Move around own region, but not between regions.
  - Outdoor funerals with max. 15 attendees, no church services.
  - Bars & restaurants will reopen for takeaway service from 4 May (not just delivery as now), but food must be consumed at home or in office.
- More retail shops will reopen on 18 May - along with museums and libraries. Most retailers from 1 June.
- Sports teams can hold group training from 18 May.
- Hairdressers, beauty salons, bars & restaurants are expected to reopen for dine-in service from 1 June.
- Continued social distancing requiring 1m separation.

Strict national stay-at-home since 9 March.

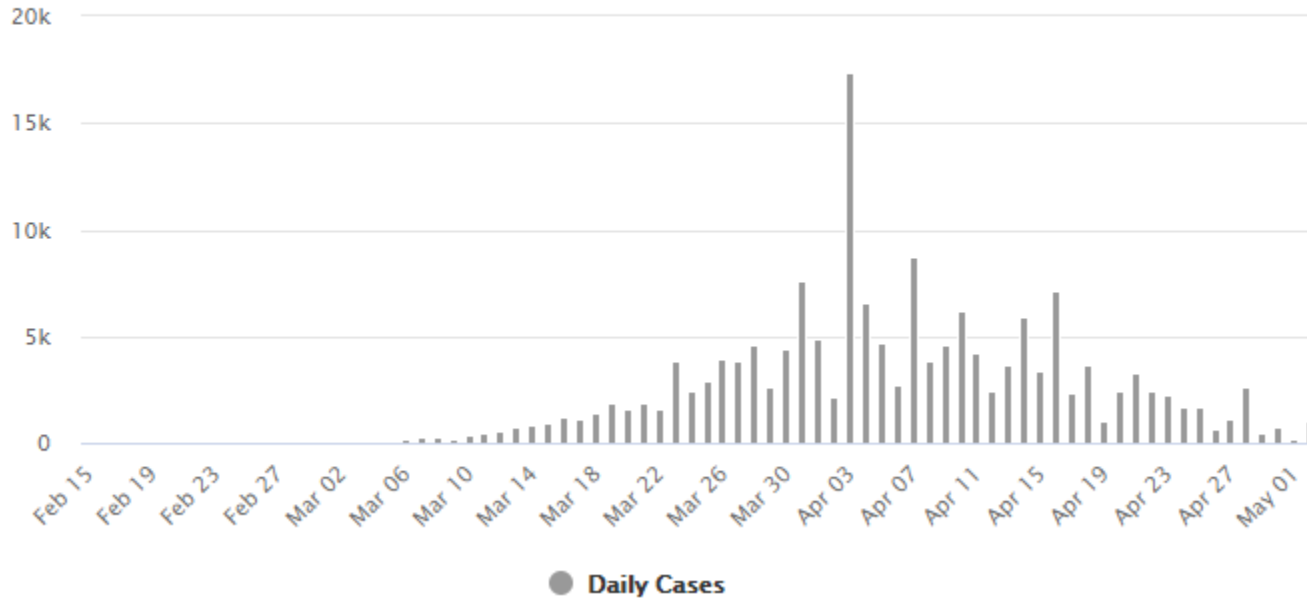
People were not even allowed out for walks.

Pressure from local gov't of less hard-hit regions to loosen restrictions.

# FRANCE – THE DATA

## Daily New Cases

Cases per Day  
Data as of 0:00 GMT+0



France has been hard hit by the virus.

# FRANCE – THE POLICIES

- Frustration due to lack of clear Gov't strategy.
- State of Emergency extended until 24 July.
- Now build on “trust and discipline” of the population.
- Starting 11 May outdoor activities to be permitted, retail to reopen.
- Day care and primary schools to reopen followed by additional grades 2 weeks later, limiting class sizes to 15.
- Restaurants, bars & beaches remain closed.
- Requirement to wear masks on public transport.
- Conventions of 5,000 or more not before 5 September.

After 5 weeks of strict stay-at-home, late April saw riots in the Banlieues.

France's social inequality highlighted once again.

Gov't faulted for lack of PPE, tests, open and honest communication, etc.

- Trust in leadership can go a long ways at impacting efficacy of policy.
  - See New Zealand & Germany.
  - But Hong Kong & Sweden are opposing examples this does not necessarily hold true.
- Clear communication & coordination addressing all of society & levels of government can lead to success.
- A severe & total shutdown for 28+ days will drive the virus to eradication.
- Whether or not local reopening works, the real challenge will be people moving beyond their immediate “bubbles.”
- The US appears to be on Sweden’s path – we just haven’t admitted it.