



Covid-19 180 Days Later



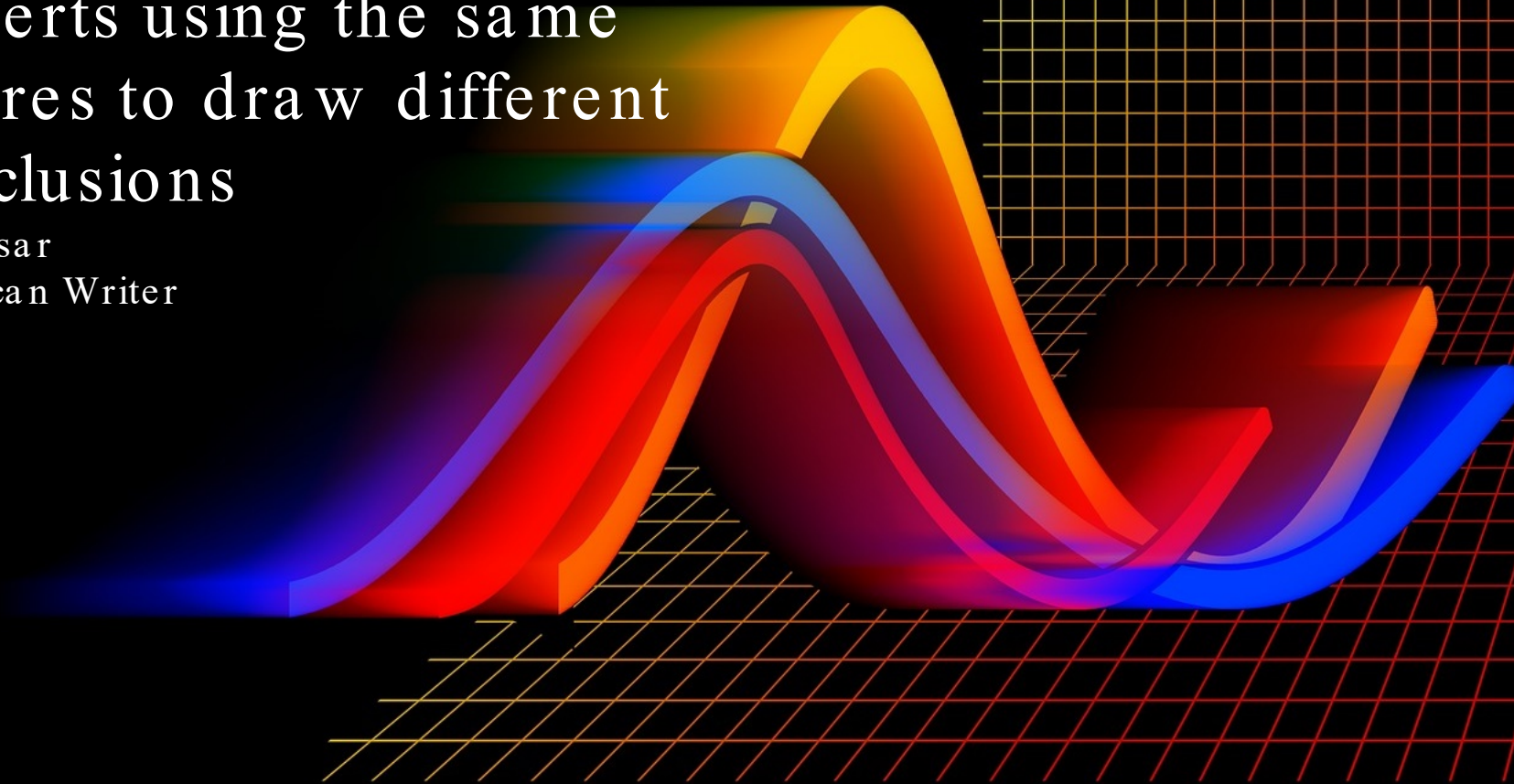
PRESENT VALUE

Numbers have a way of taking a man by the hand and leading him down the path of reason

Pythagoras

Statistics: The only science
that enables different
experts using the same
figures to draw different
conclusions

Evan Esar
American Writer



180 Days Later

Covid-19

1

Our Response to Covid 19

2

Today's Data

3

Observations

4

Then & Now



PRESENT VALUE

Valuation\$



Efficacy

In BD&L we use numbers to calculate...



Market Share



Incidence

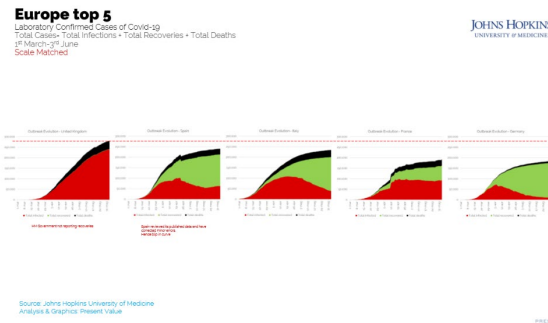
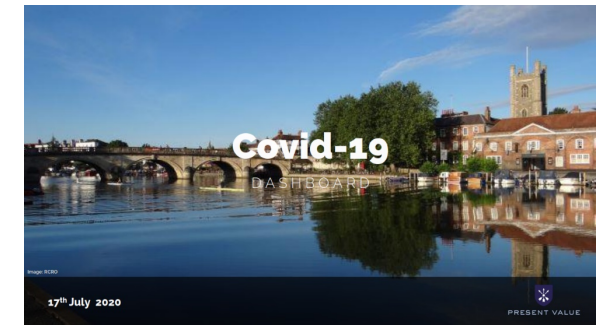
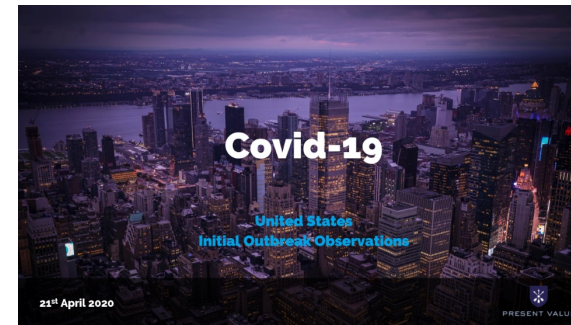
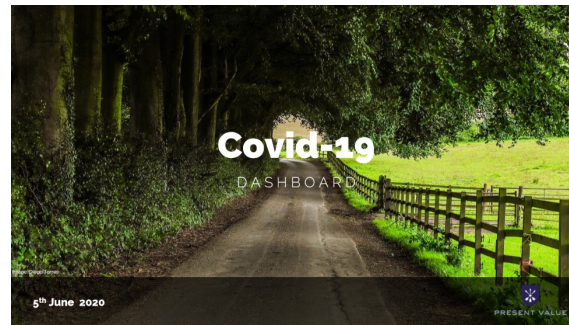
Data Tidal Wave

The first data driven Pandemic

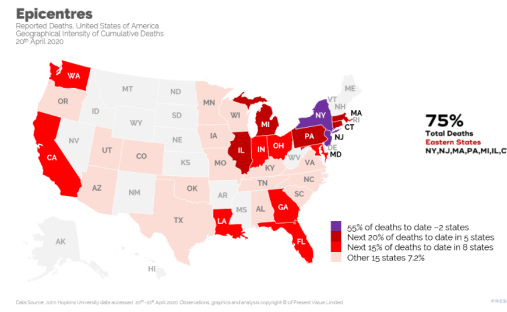


Covid-19 Dashboard

Our response to Covid-19



JOHNS HOPKINS
UNIVERSITY OF MEDICINE



Introduction

Deaths
Population & Time adjusted macro analysis
17th April 2020

Factors

When we attempt to view the cumulative death data across different territories, factors that may be relevant include



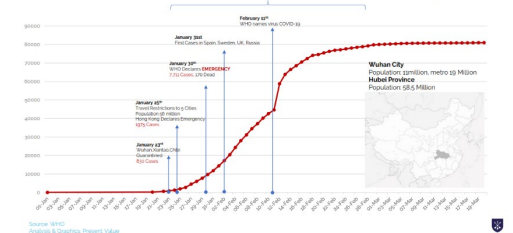
Reporting Methodology

The data being reported is subject to multiple 'imperfections'



China Recent History

Laboratory Confirmed Cases of Covid-19
Cumulative
01/01/2020 to Date



World Health Organization



PRESENT VALUE

Covid-19 Dashboard

Our response to Covid-19

**GREATER
LONDON
AUTHORITY**

Andrew: Just to say this is extremely welcome and helpful intel – I feed it directly into the various teams at City Hall that we have set up to brief Mayor on business/health impacts, and it supports our engagement with Government Ministries e.g. BEIS. I just shared your latest one with colleagues in our NY office too (We have offices in many countries of 'London and Partners', effectively the Mayor's PR agency for the London brand.)
Was bit depressed to see worst hit London Boroughs are the ones around City Hall (but we're all WFH now).

Daniel Gooch
Senior Policy Officer for Life Sciences, Regeneration and Economic Development



These are REALLY useful!

Trevor M Jones, CBE PhD DSc (Hon) FRCP FMedSci FBPhS FRSM FRSC FLSW

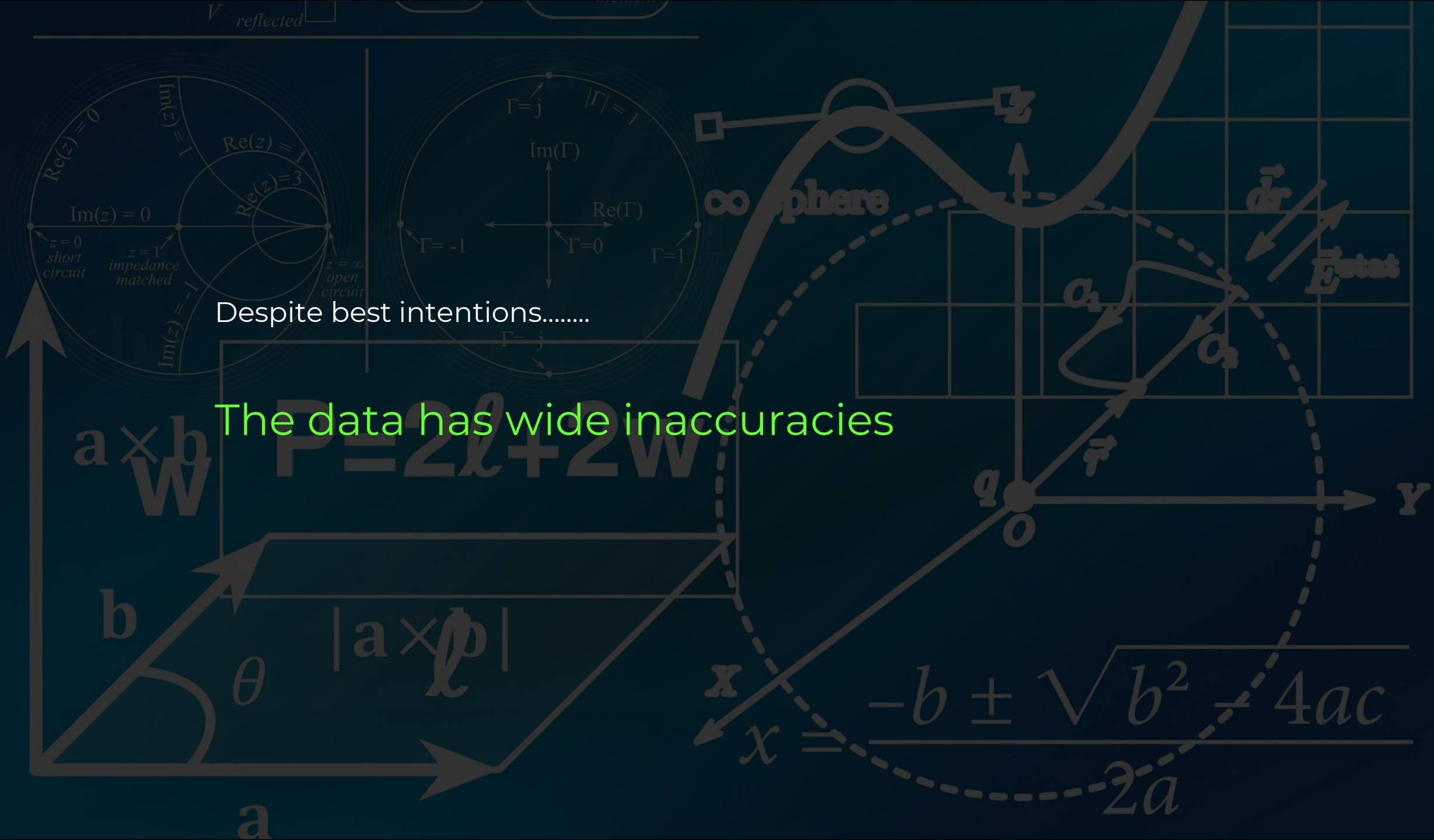


Ministero della Salute

Andrew James
Your report was circulated yesterday amongst senior scientific advisors of the Italian Government
The Director General, The Deputy Director General of WHO.
It was really appreciated!

Despite best intentions.....

The data has wide inaccuracies



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PRESENT VALUE

Global Snapshot

Worldometer Summary
Case Flux, Death Flux
15th September (0.00 GMT)



29.43m
Total Cases



240k
New Cases



7.24m
Active Cases



932k
Deaths



4.3k
New Deaths

15th September
(0.00 GMT)

14th September
(0.00 GMT)

29.19m
Total Cases

252k
New Cases

7.24m
Active Cases

928k
Deaths

4.0k
New Deaths

13th September
(0.00 GMT)

28.94m
Total Cases

289k
New Cases

7.22m
Active Cases

924k
Deaths

5.0k
New Deaths

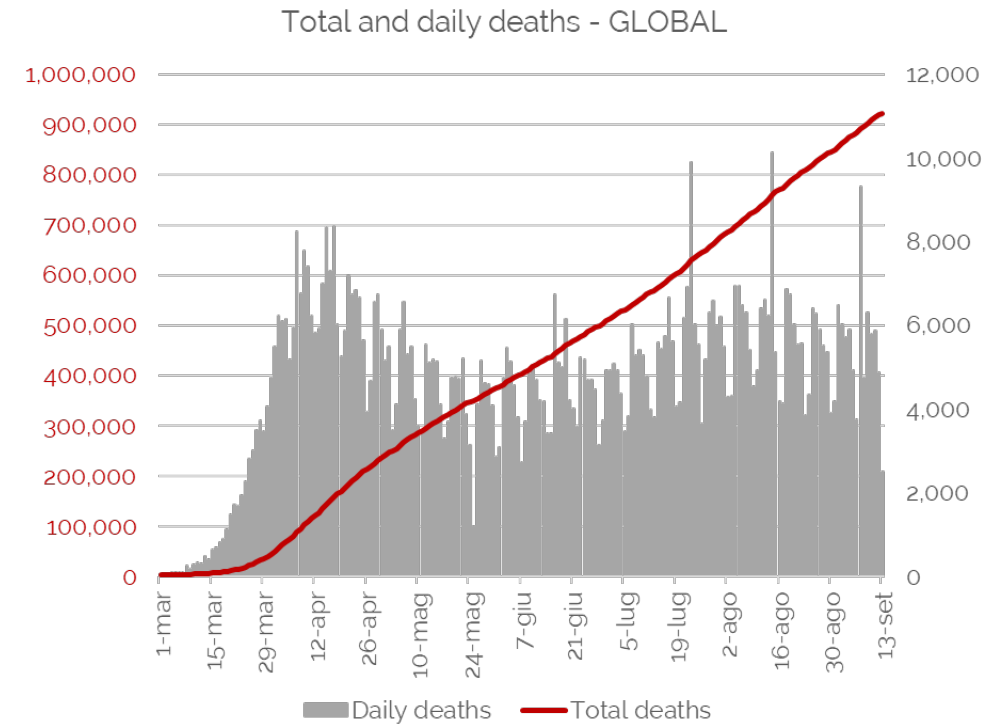
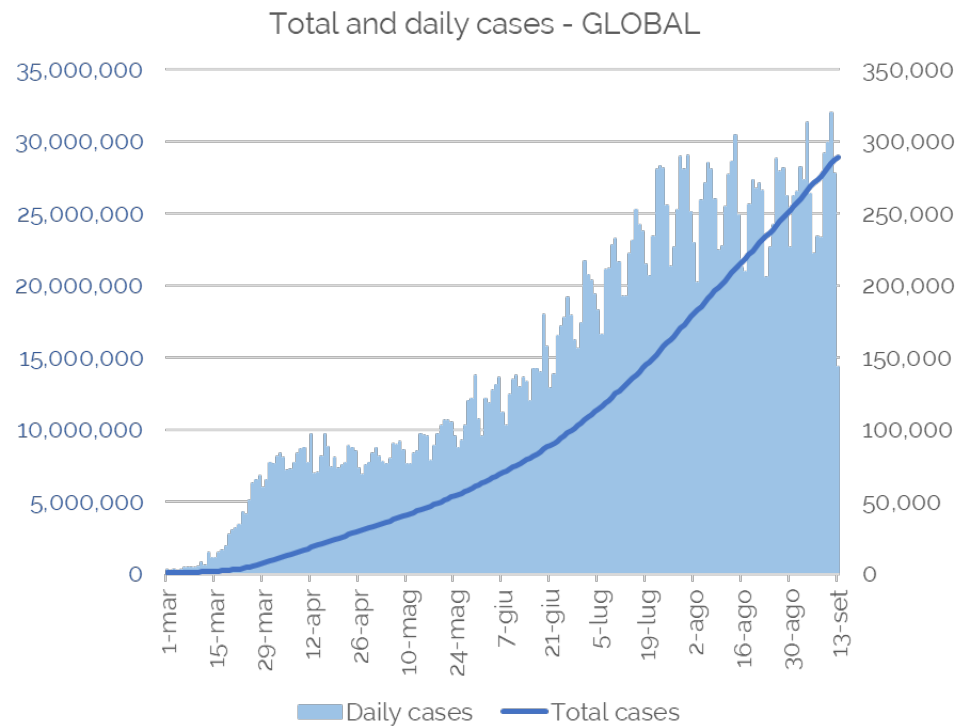
Source: Worldometer
Analysis & Graphics: Present Value



PRESENT VALUE

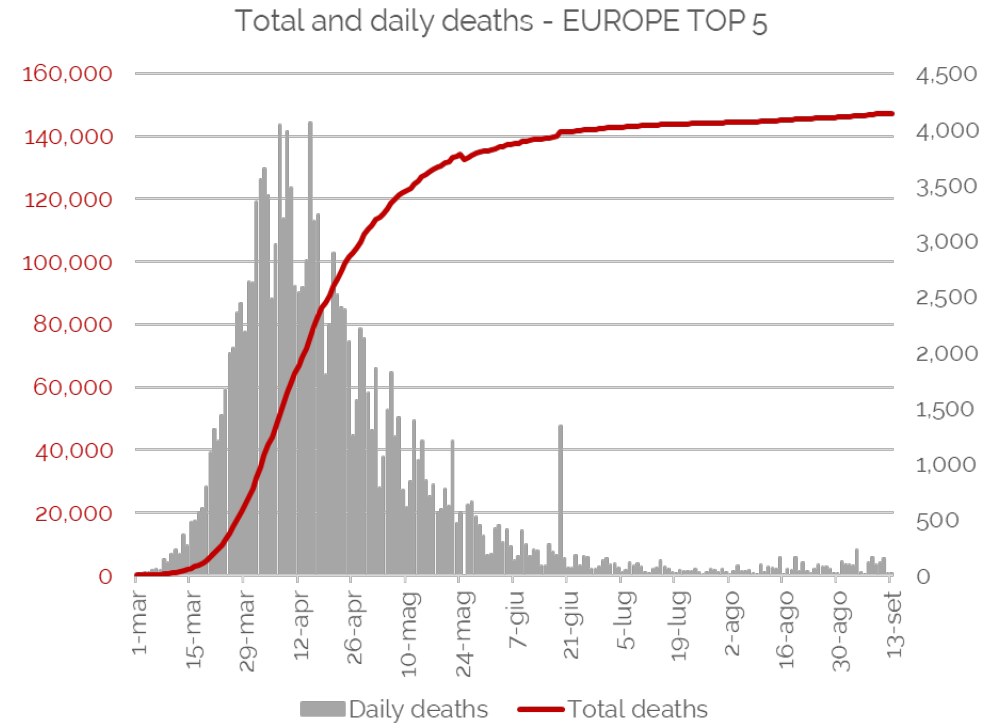
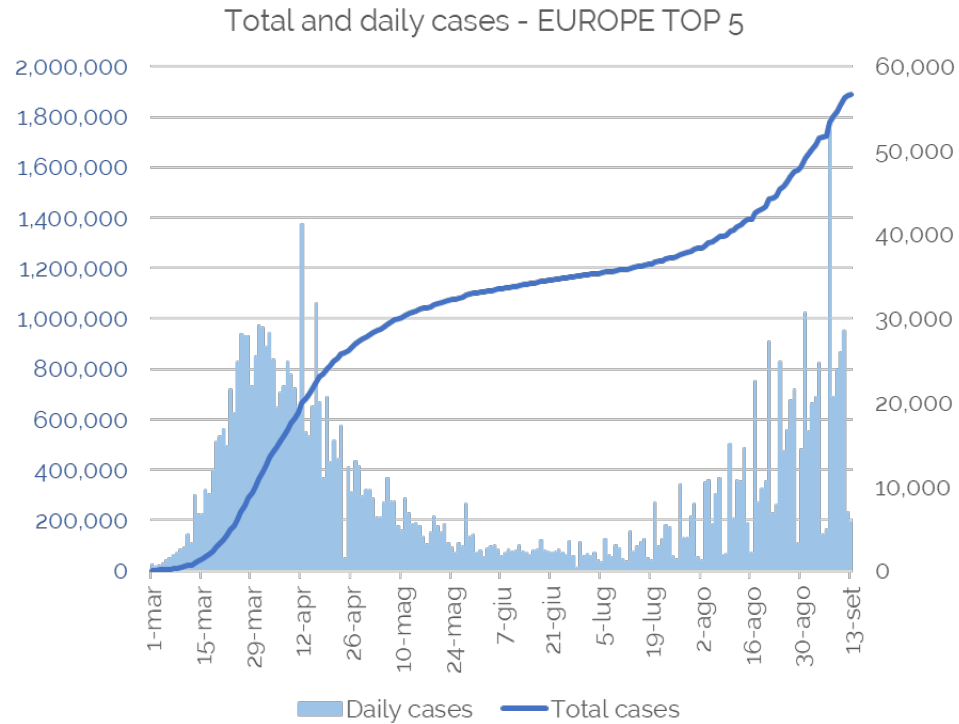
Global

Reported Deaths & Cases
6 Month Data
1st March- 13th September



Europe Top 5

Reported Deaths & Cases
6 Month Data
1st March- 13th September



Global

Reported Deaths

Ranking 20 Most affected Countries

14th September



Top 20 Ranking		cases last 7 days
1	India	649,330
2	USA	258,427
3	Brazil	201,750
4	Argentina	77,439
5	France	58,272
6	Colombia	50,044
7	Peru	42,285
8	Russia	37,630
9	Spain	36,325
10	Mexico	34,358
11	Iraq	29,794
12	Philippines	27,267
13	Israel	26,393
14	Indonesia	24,534
15	UK	21,025
16	Ukraine	18,729
17	Iran	15,838
18	Morocco	14,423
19	Chile	12,153
20	Bangladesh	11,973

Top 20 Ranking		deaths last 7 days
1	India	7,992
2	USA	5,470
3	Brazil	5,116
4	Mexico	3,263
5	Argentina	1,538
6	Colombia	1,508
7	Iran	903
8	Peru	836
9	Russia	764
10	Philippines	740
11	Indonesia	711
12	Iraq	497
13	South Africa	495
14	Turkey	389
15	Chile	361
16	Ecuador	346
17	Bolivia	336
18	Ukraine	334
19	Spain	264
20	Romania	259

Source: Worldometer
Analysis & Graphics: Present Value



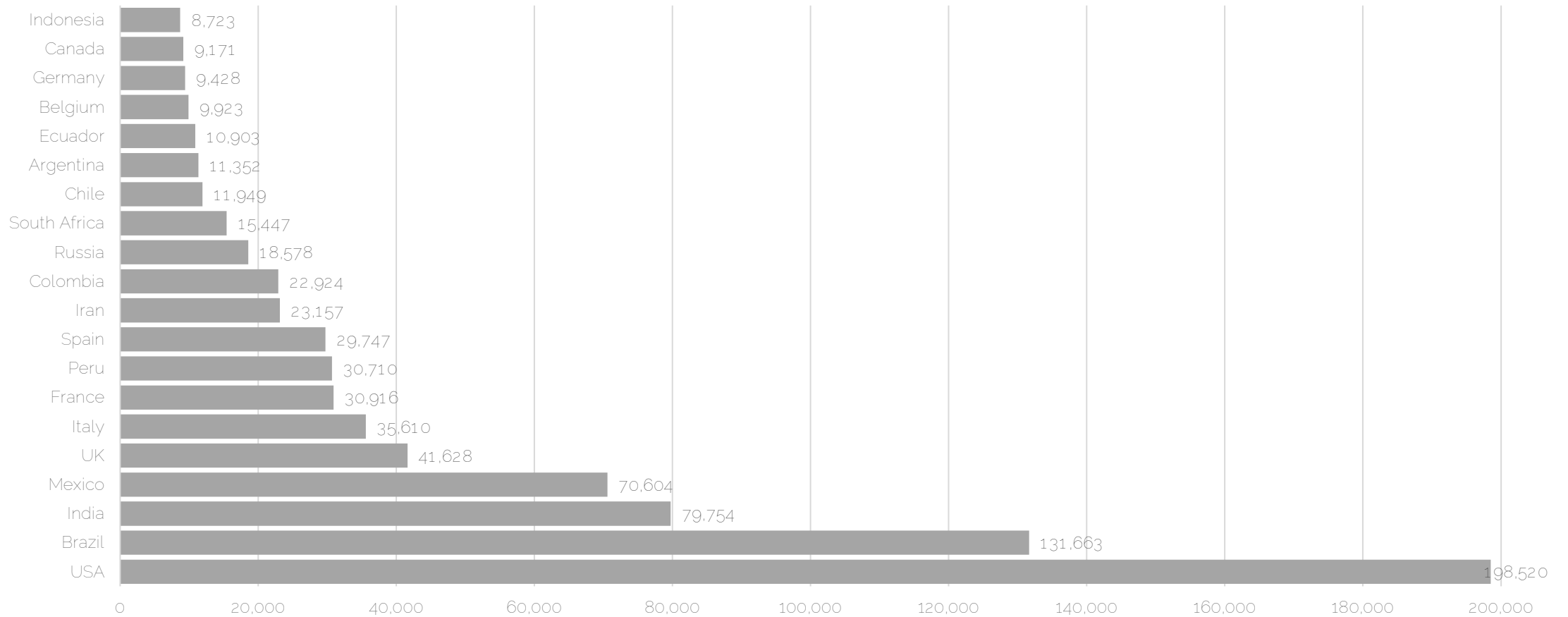
PRESENT VALUE

Global

Reported Deaths

Cumulative 20 Most affected Countries

13th September



Source: Worldometer

Analysis & Graphics: Present Value



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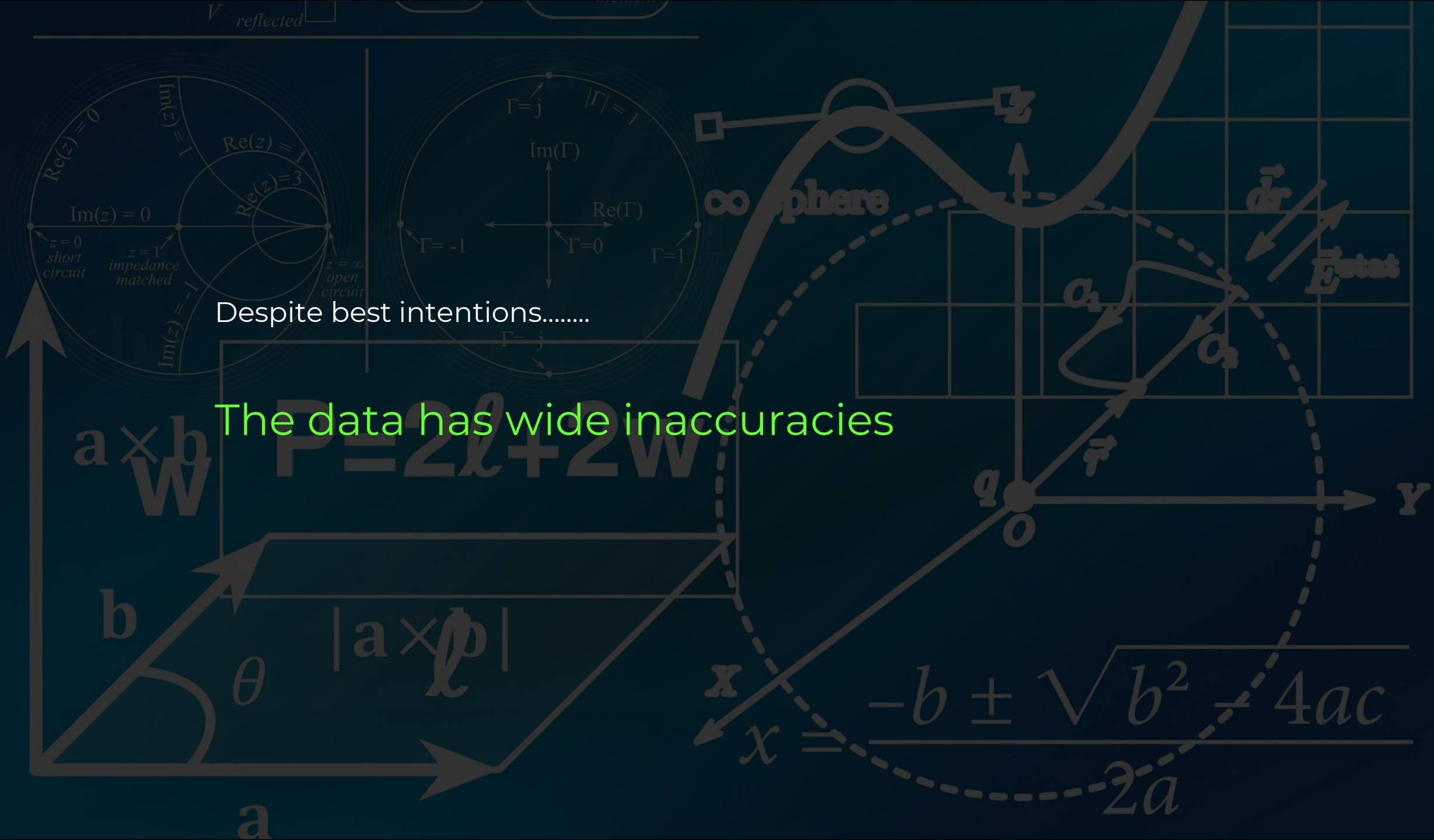
Then & Now



PRESENT VALUE

Despite best intentions.....

The data has wide inaccuracies



Observations

Pure Numbers



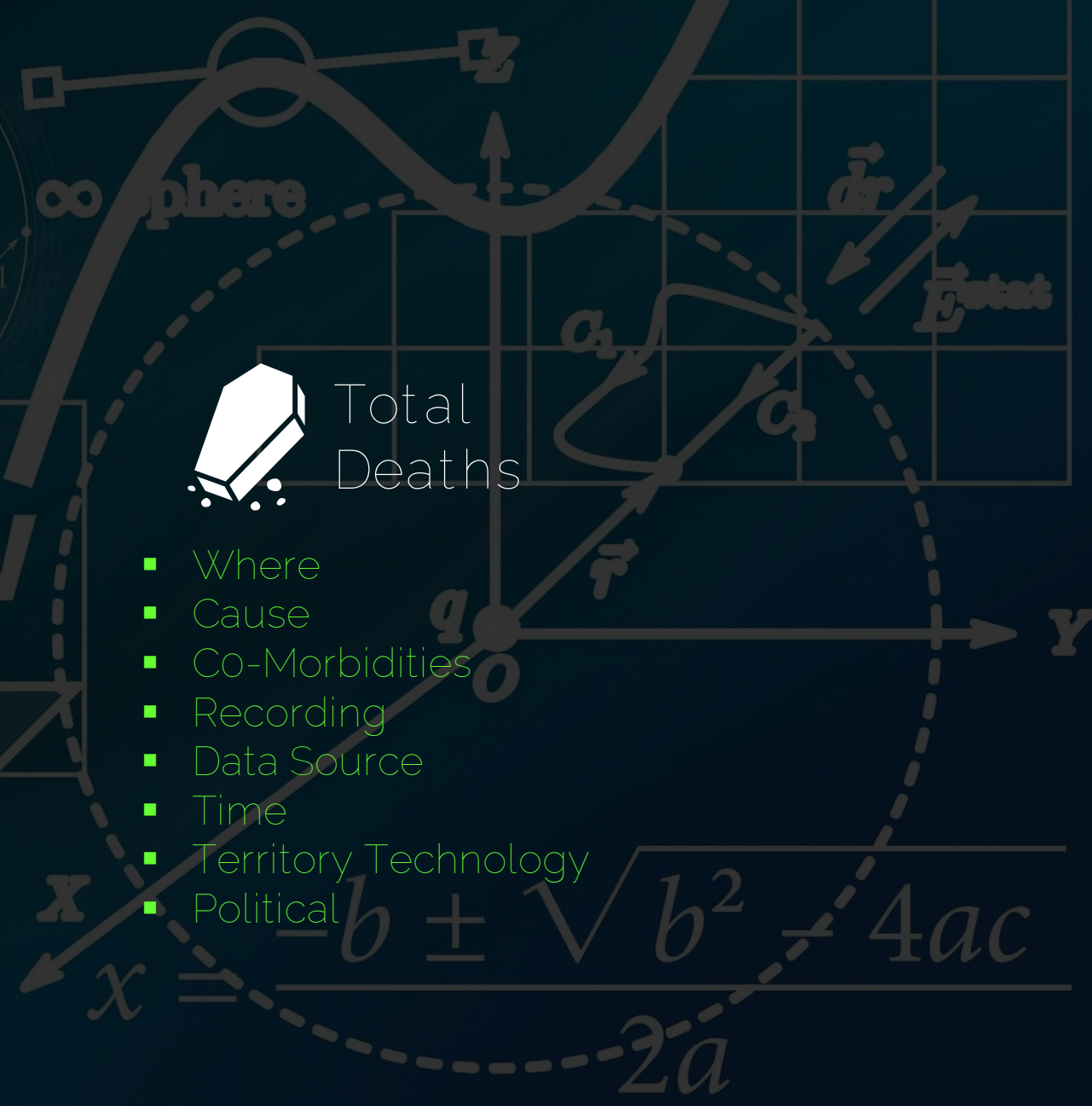
Total
Infected/ Cases



Total
Deaths

- Where
- Who
- How
- Testing
- Testing Accuracy
- Time
- Territory Technology
- Political

- Where
- Cause
- Co-Morbidities
- Recording
- Data Source
- Time
- Territory Technology
- Political

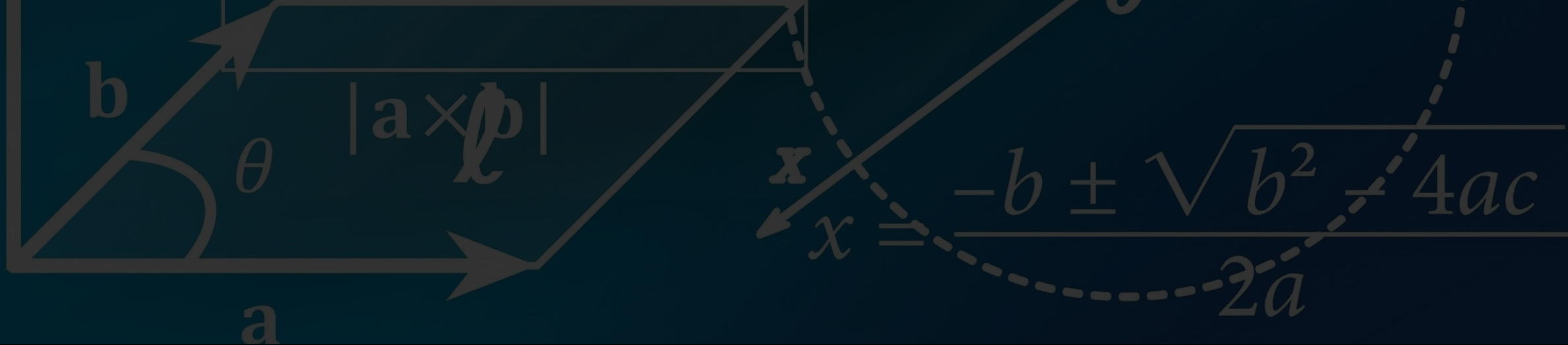
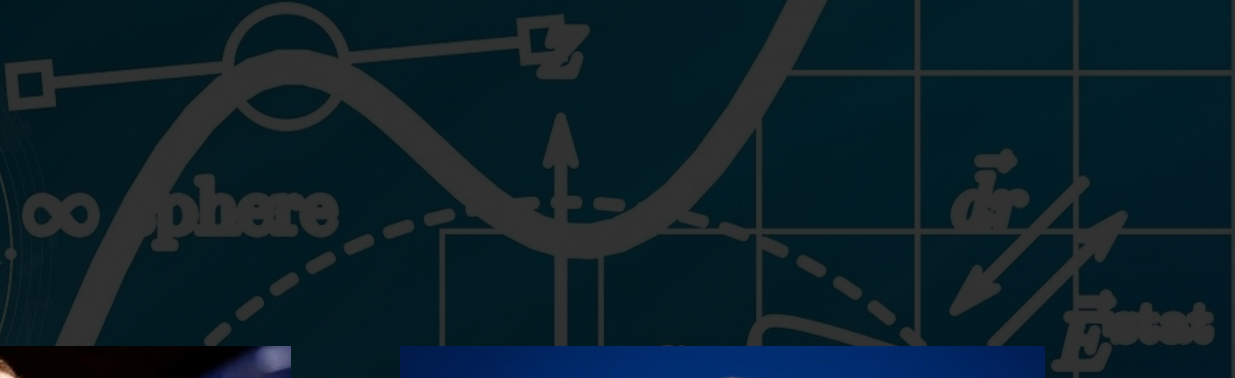
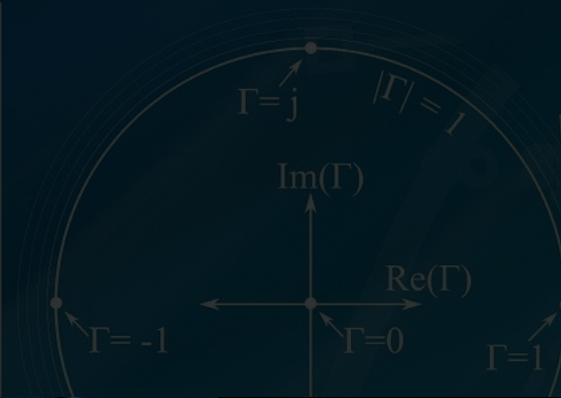
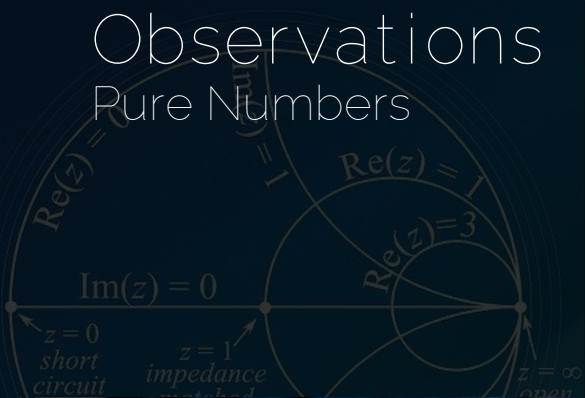


$$P = 2l + 2w$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Observations

Pure Numbers



Observations

Rates which influence policy decisions

Attack Rate (AR)



Total Infected (I)



Population Size (P)



- Geographic
- Age
- Ethnographic diversity
- Lifestyle
- Population Density

Case Fatality Rate (CFR)



Total Deaths (D)



Total Cases



Infected
Asymptomatic

Infection Fatality Rate (IFR)



Total Deaths (D)



Total Infected (I)



Total Infected

- Where
- Who
- How
- Testing
- Testing Accuracy
- Time
- Territory Technology
- Political



Total Deaths

- Where
- Cause
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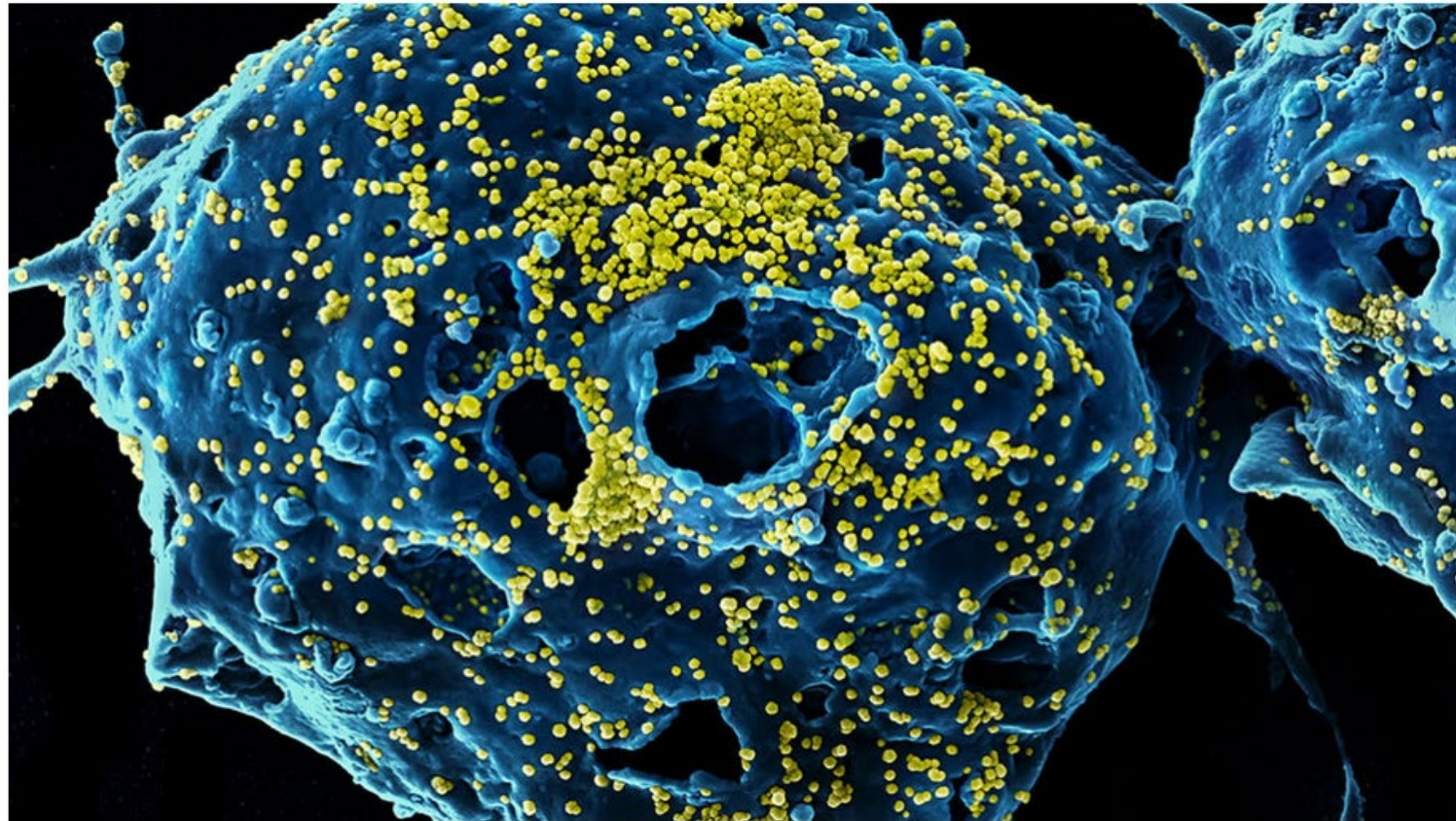
PRESENT VALUE



Then & Now

What we know — and don't know — about a new virus causing pneumonia in China

There's little evidence so far of person-to-person transmission, but experts urge vigilance



A previously unknown coronavirus is behind an outbreak of respiratory illness in China. So far, there's little indication the pathogen will spread like a similar virus responsible for MERS (stained yellow in this scanning electron micrograph).



Then

Coronaviruses like SARS and MERS tend to infect deep in the lungs, so the new coronavirus is probably spread mainly by:

- People with symptoms, such as a cough
- During medical procedures such as being intubated.

Now

In addition to lung cells, SARS-CoV-2 can also infect cells in the nose, which may explain how people can transmit it to others before feeling sick.

Talking or breathing may be enough to spread the virus.

Then

The earliest signs of illness include fever, shortness of breath or cough, the U.S. Centers for Disease Control and Prevention listed in January.

Now

Covid-19 presents a wider range of symptoms, including:

- Fatigue
- Diarrhoea
- Body aches
- Loss of smell and taste
- Skin rashes

Then



Only sick
people should
wear masks



Now



**Face masks
must be worn**

Now

Then

THE DRUGS DON'T WORK

URBAN HYMNS - 1997

The Verve



Social Recluse
& the Spirit of Ages

Remdesivir

Dexamethasone

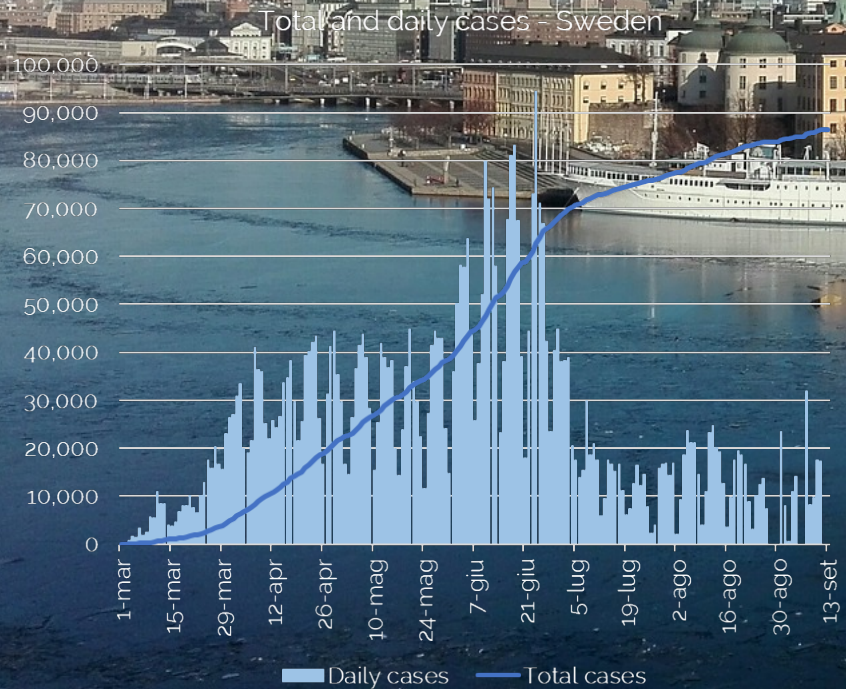
Hydrocortisone

Antibodies

150 vaccines in development

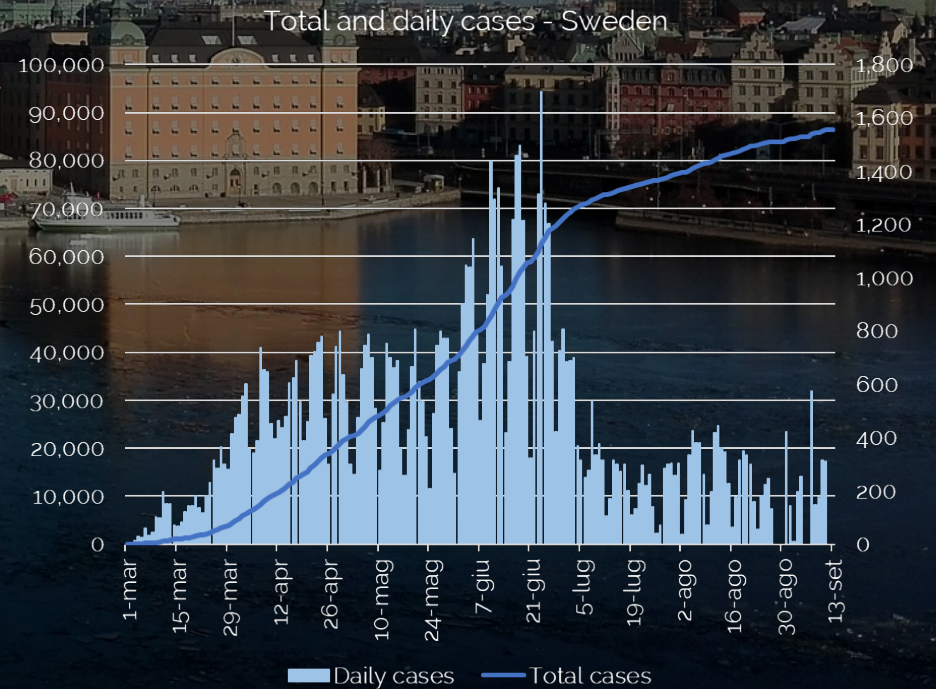
Then

Sweden's Strategy was **Right**



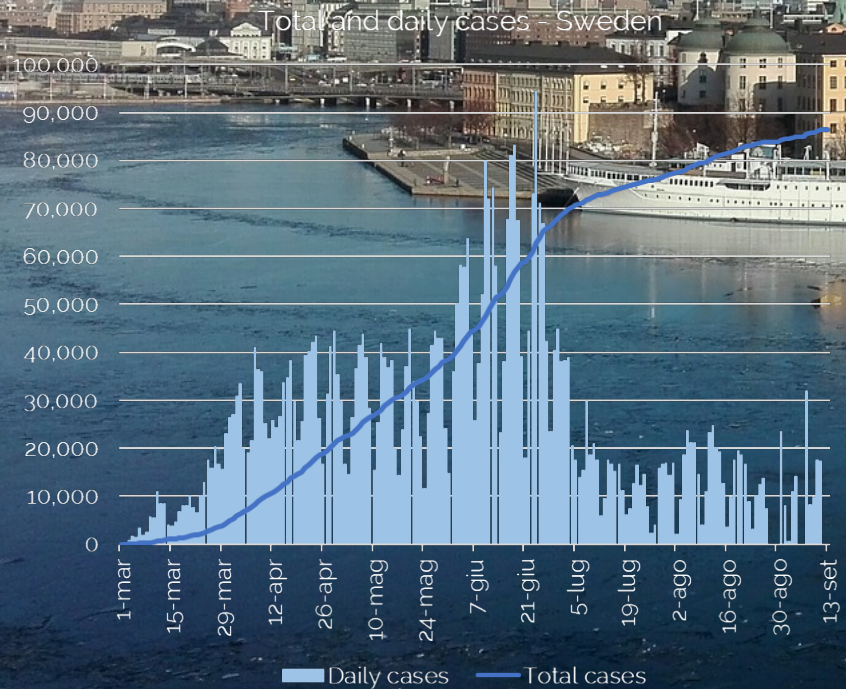
Now

Sweden's Strategy was **Dangerous**



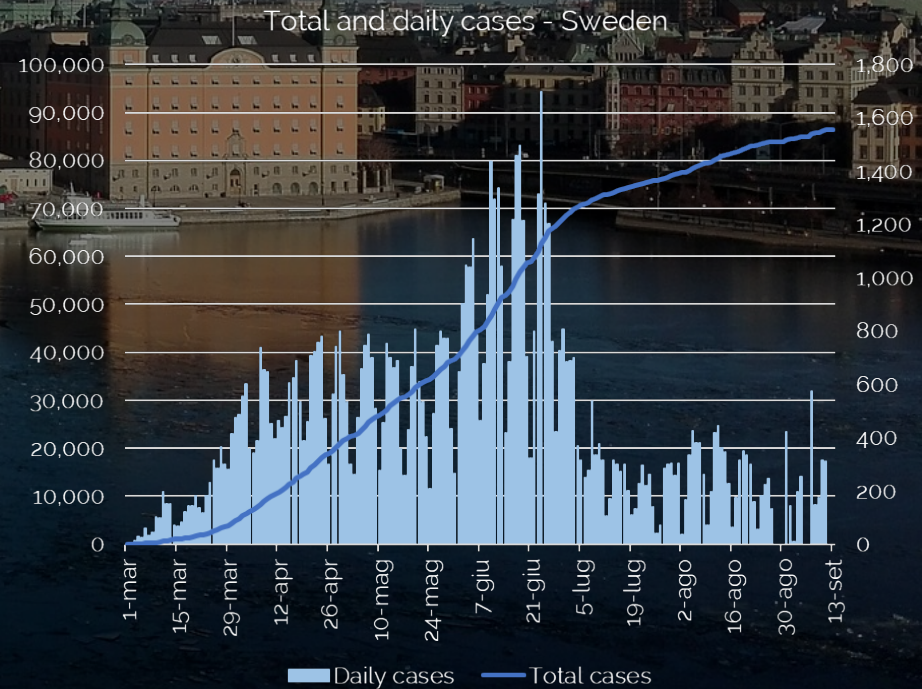
Then

Sweden's Strategy was **Dangerous**



Now

Sweden's Strategy was **Right**



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2

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3

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4

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Partnering



Strategy

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Thank you