

12 April 2020

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# COVID-19 Projections

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Didier Darcet

# COVID-19 Cases' and Deaths' Projection Method

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At the beginning, epidemic processes are exponential by nature, in other words, the number of cases of infection or death accelerates.

Making projections therefore requires to capture the derivative of the acceleration, named 'the jolt' by mathematicians. In the following projections, we fit the accelerating or fading nature of the jolt, and project its dynamics over the subsequent four weeks.

The jolt is fitted with an exponential function over, respectively, the previous 5, 6, 7, 8 and 9 days. Large numbers are truncated to facilitate the reading of the charts.

Fitting over various windows provides an information on the most recent dynamics of the COVID-19 diffusion. The thicker dotted red line is the shortest trend, i.e. calculated over the previous five days.

During the early days of an epidemic, projections can be extremely volatile, and it is therefore recommended not to draw black-and-white conclusions from a daily report, but to follow the evolution over many days.

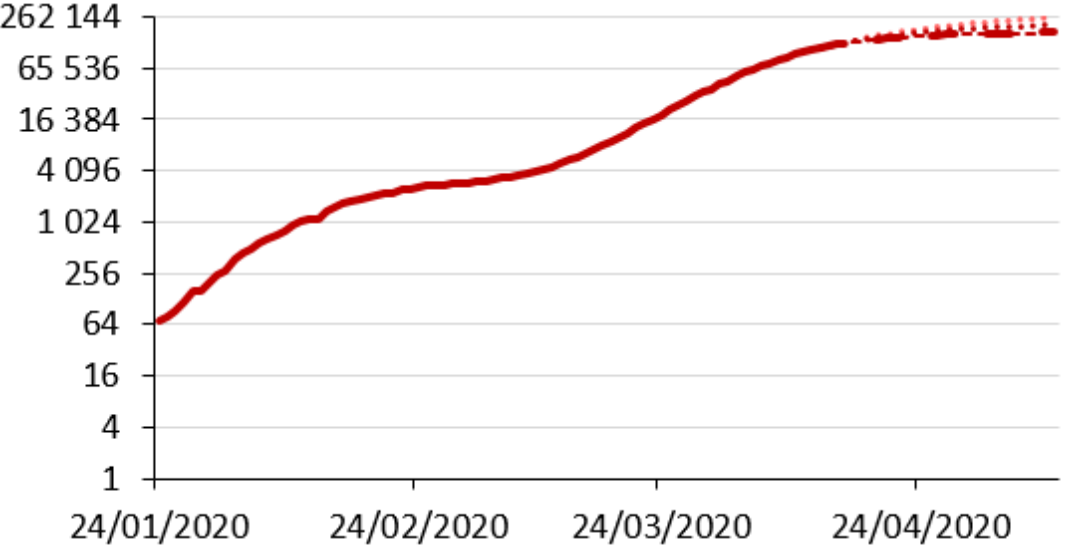
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# DEATHS - PROJECTIONS

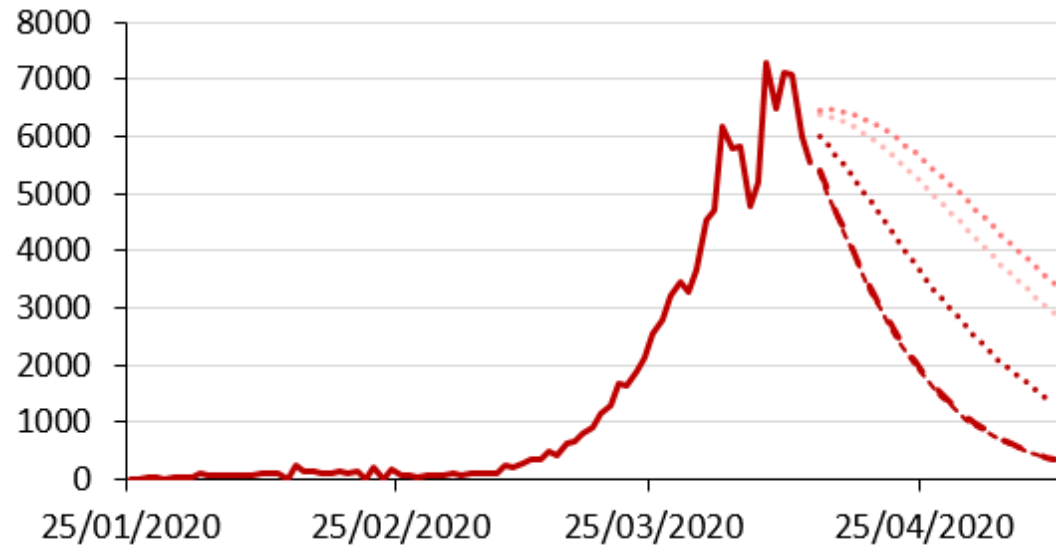
# World

CONFIRMED 9 days'fit 8 days'fit 7 days'fit 6 days'fit 5 days'fit

### Cumulated



### Daily

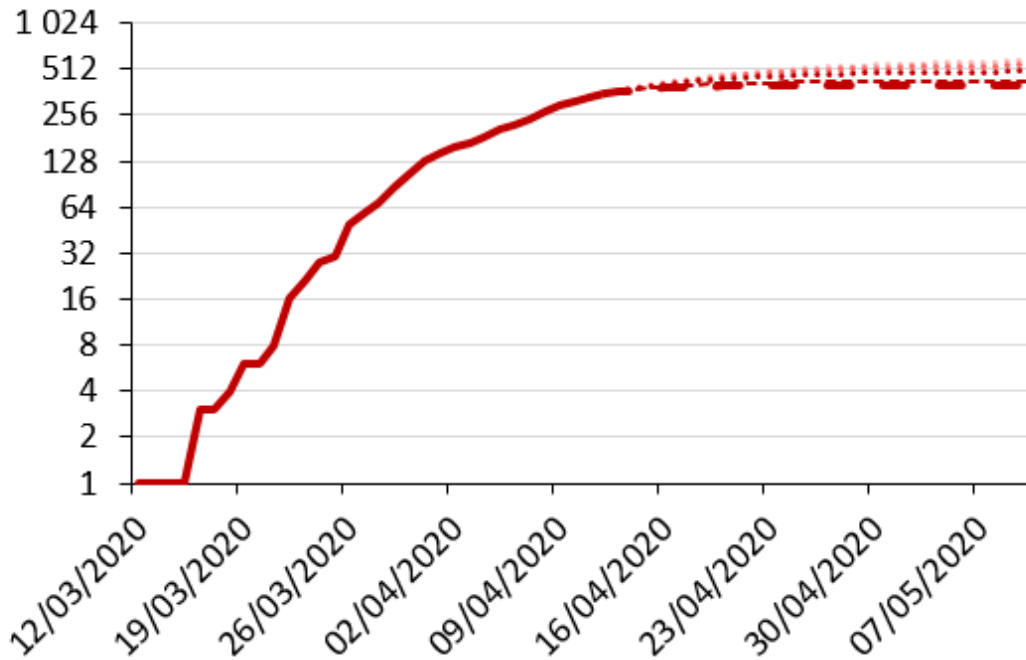


Data: The Johns Hopkins University, Politolog.com

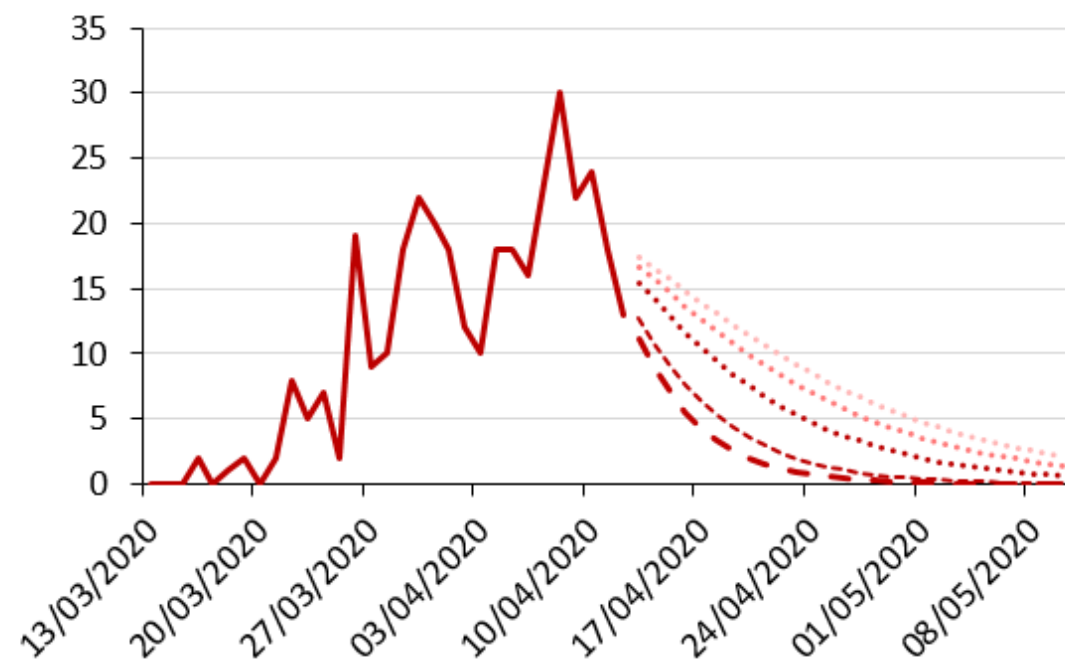
# Austria

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### Cumulated



### Daily

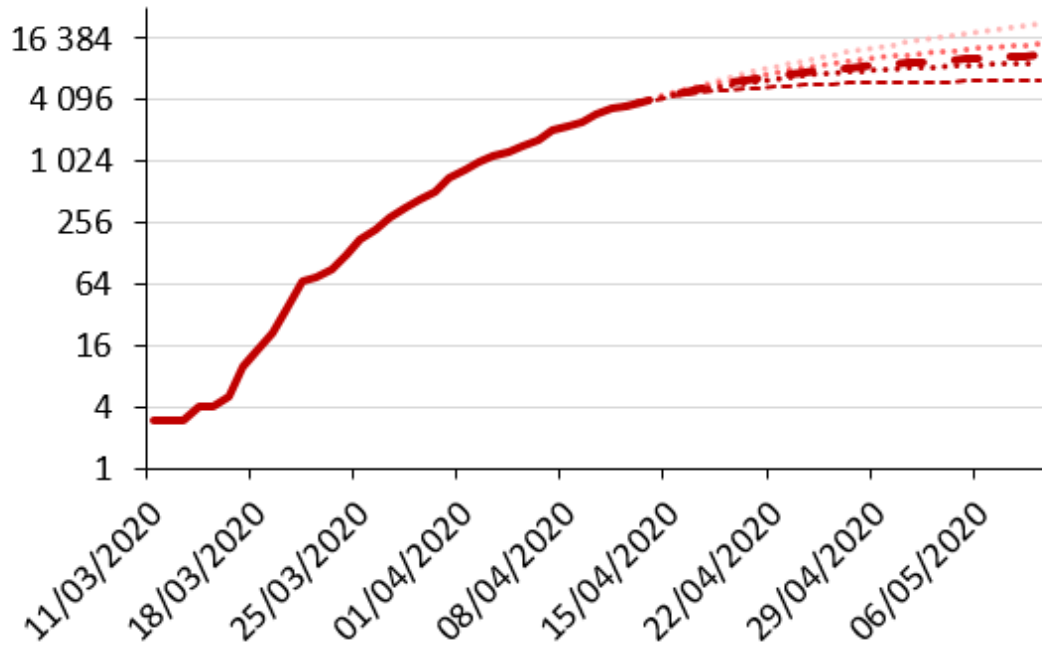


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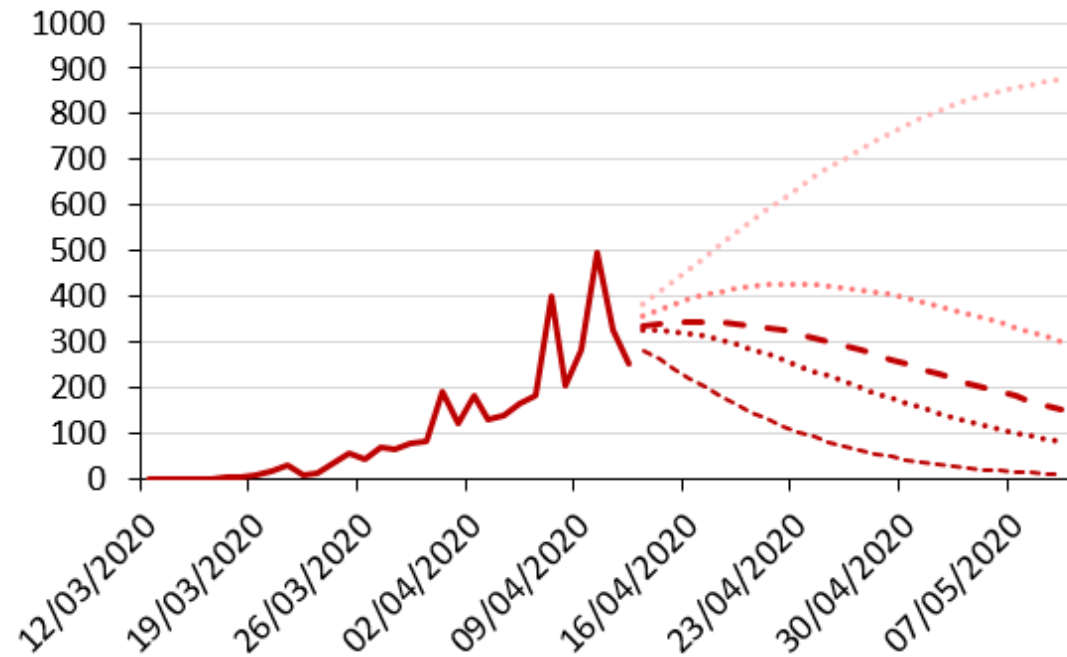
# Belgium

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### Cumulated



### Daily

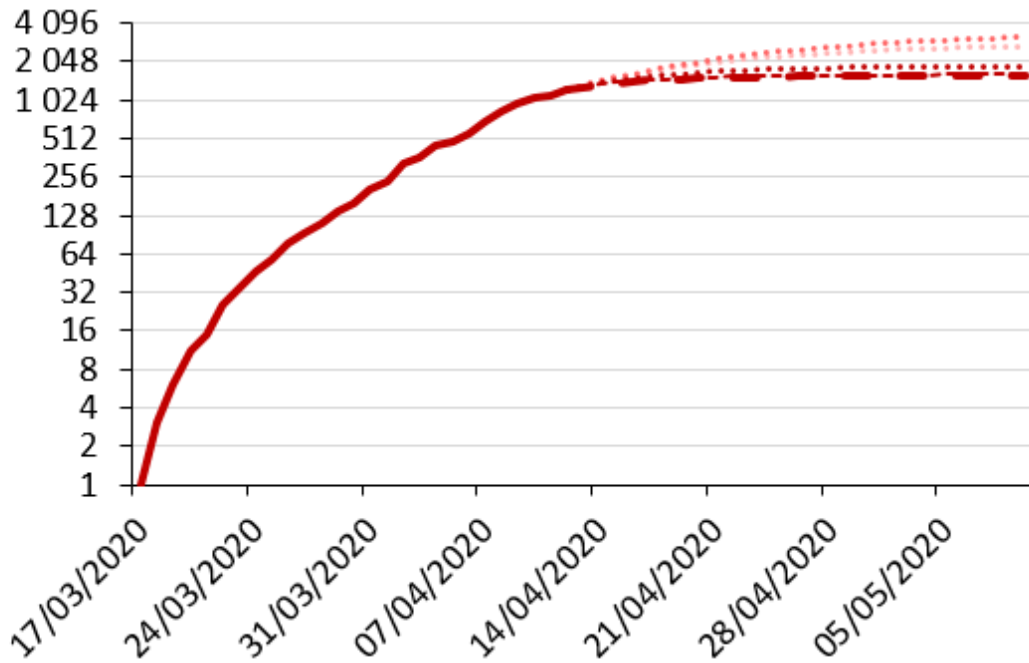


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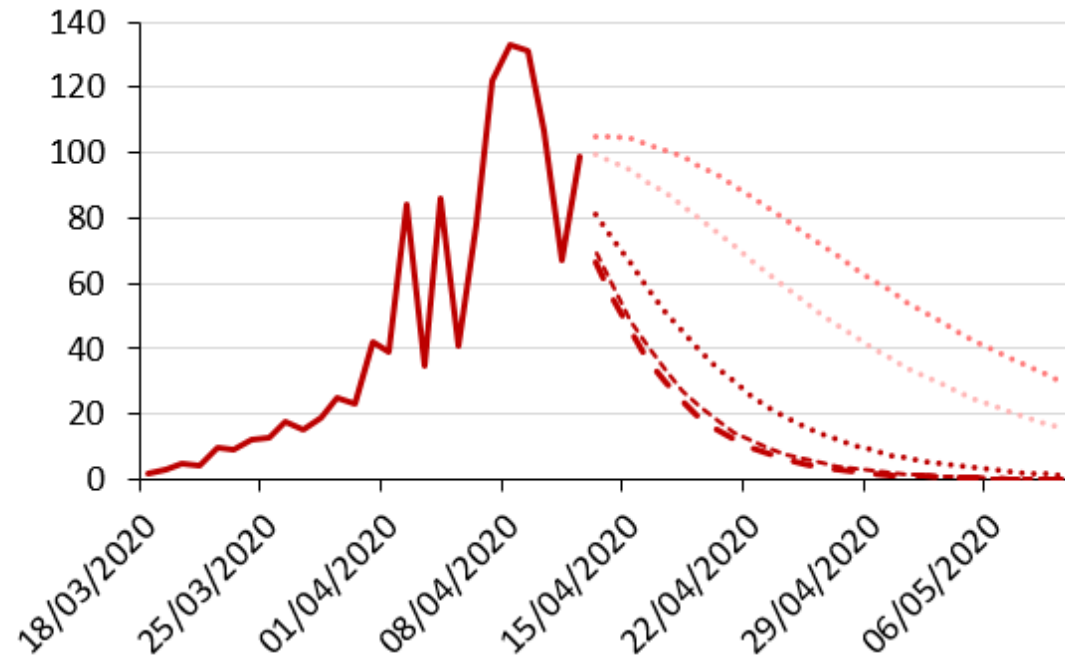
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### Cumulated



### Daily

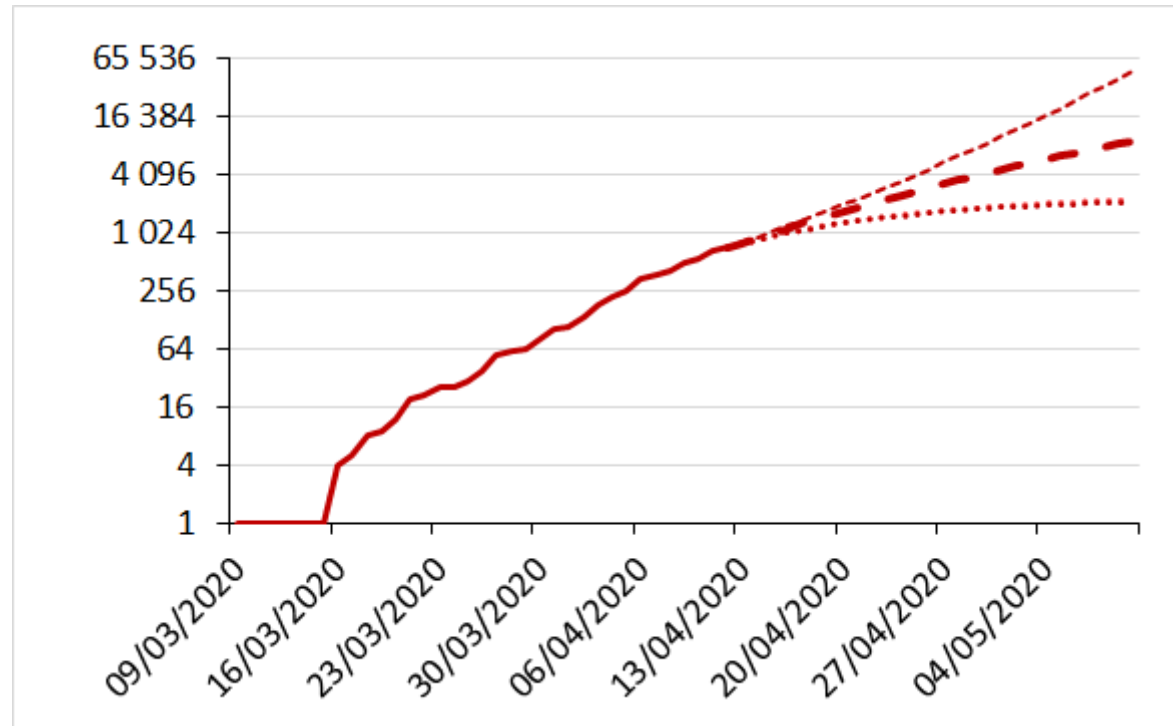


Data: The Johns Hopkins University, Politolog.com

# Canada

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## Cumulated



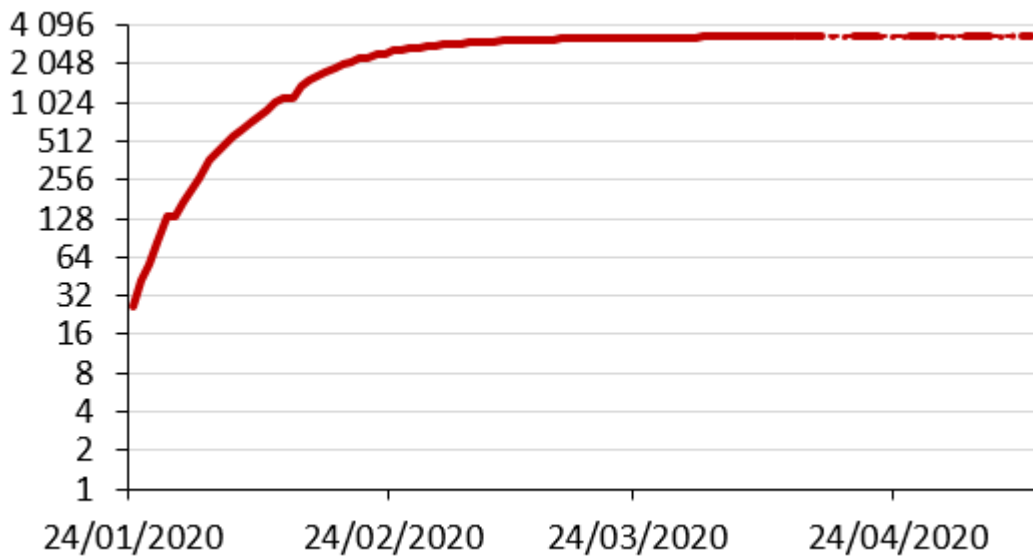
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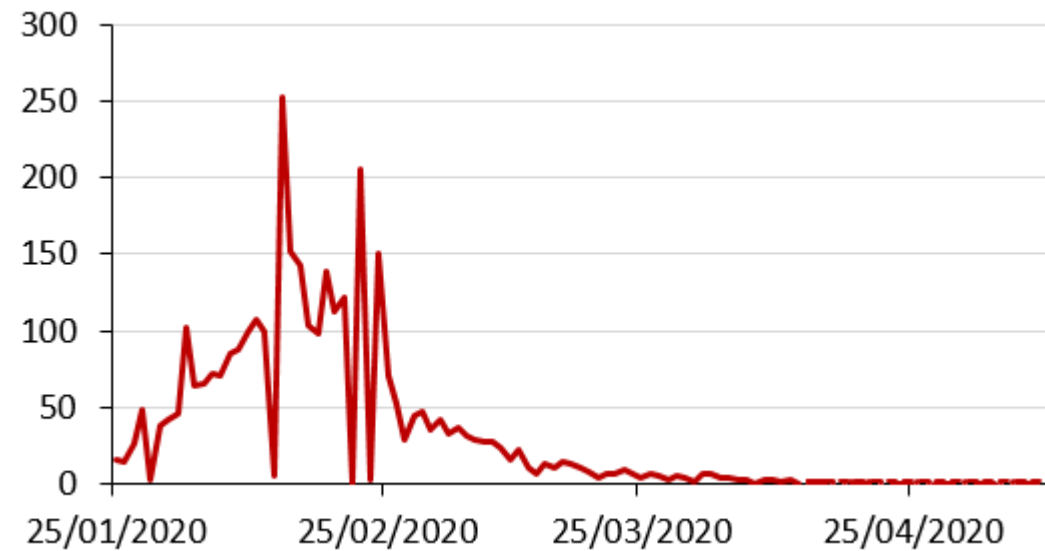
# China

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## Cumulated



## Daily

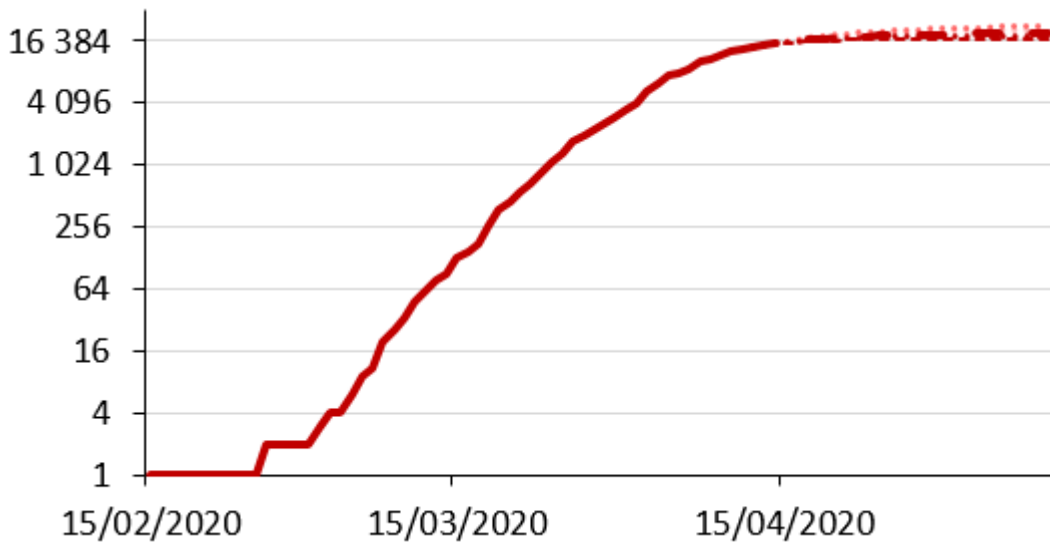


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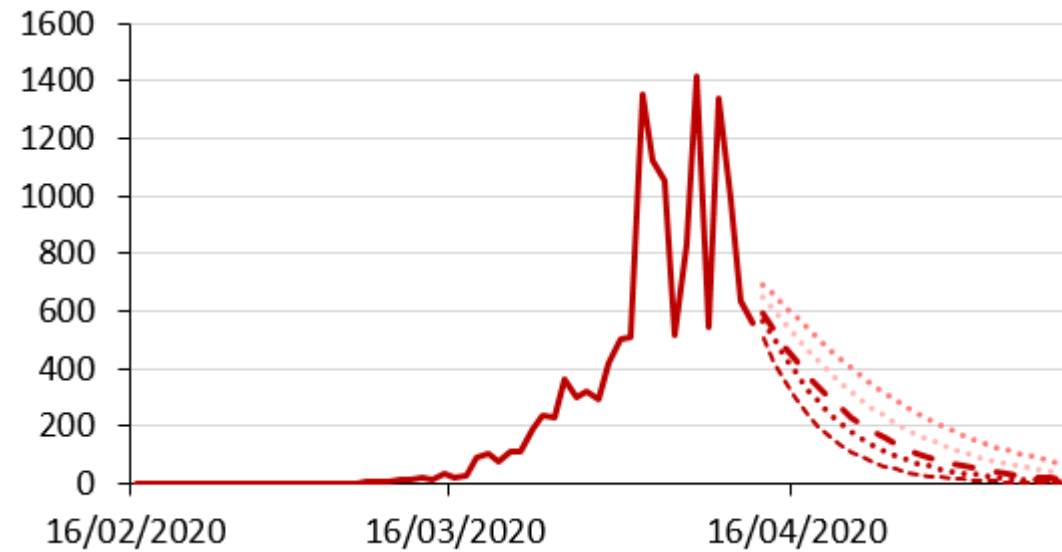
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## Cumulated



## Daily

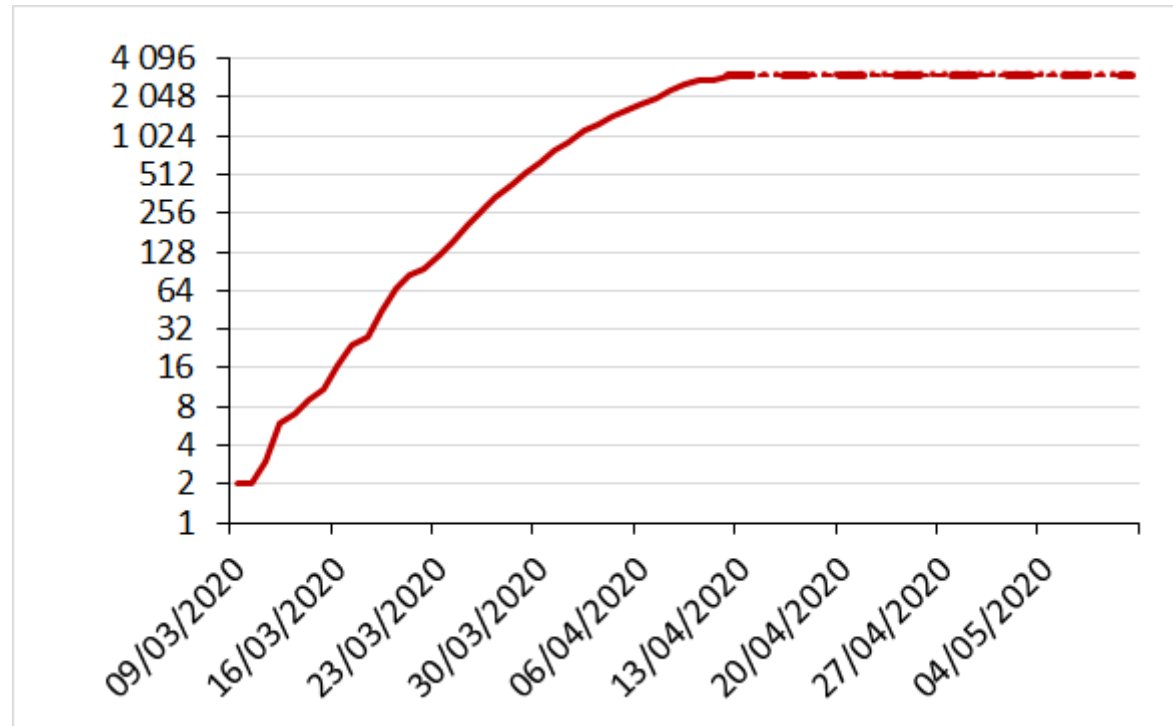


Data: The Johns Hopkins University, Politolog.com

# Germany

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## Cumulated

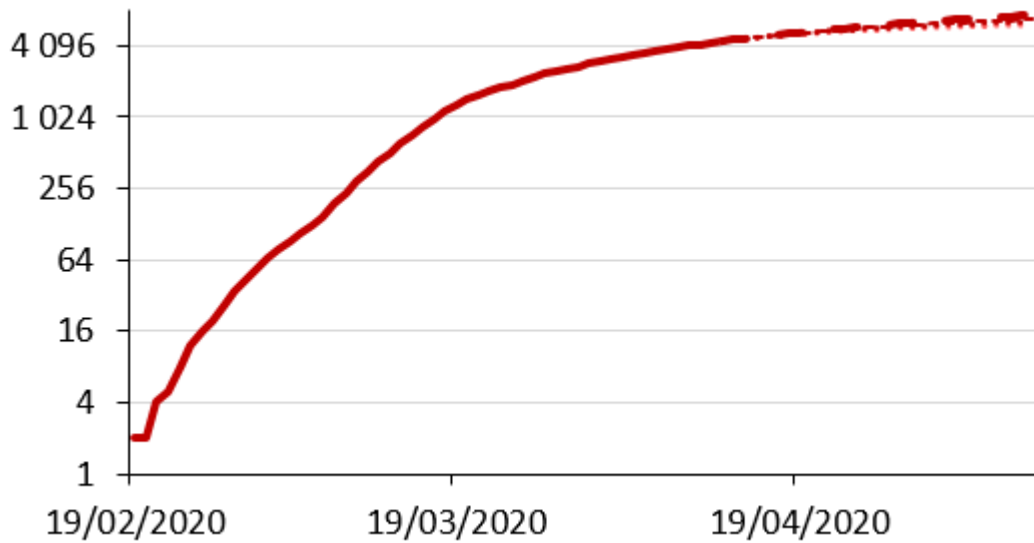


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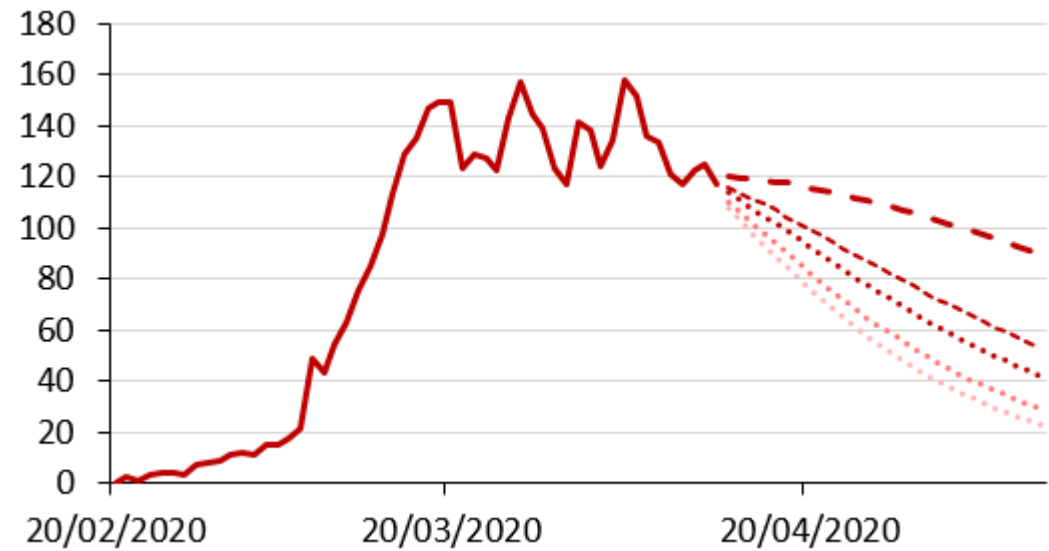
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## Cumulated



## Daily

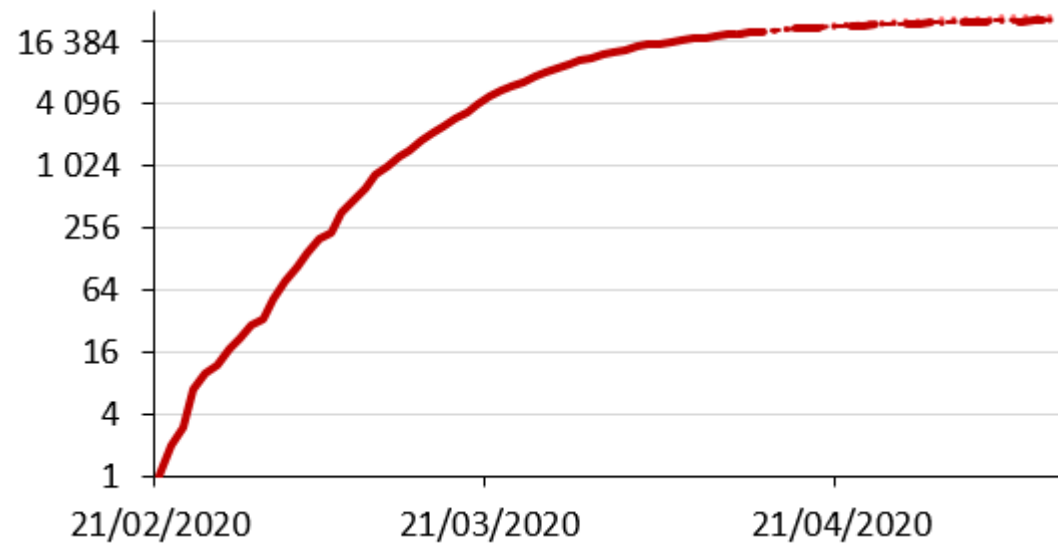


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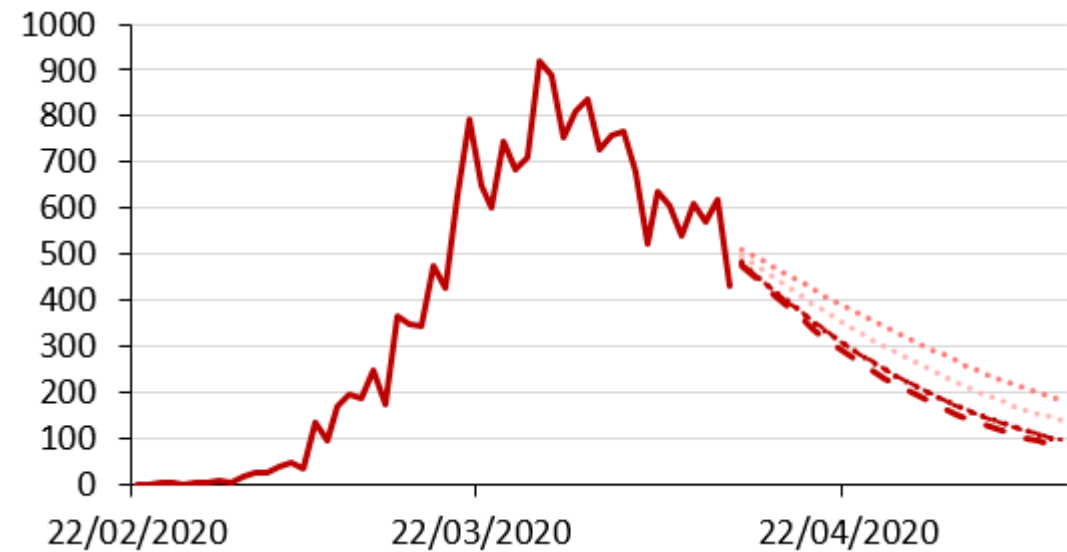
# Italy

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## Cumulated



## Daily

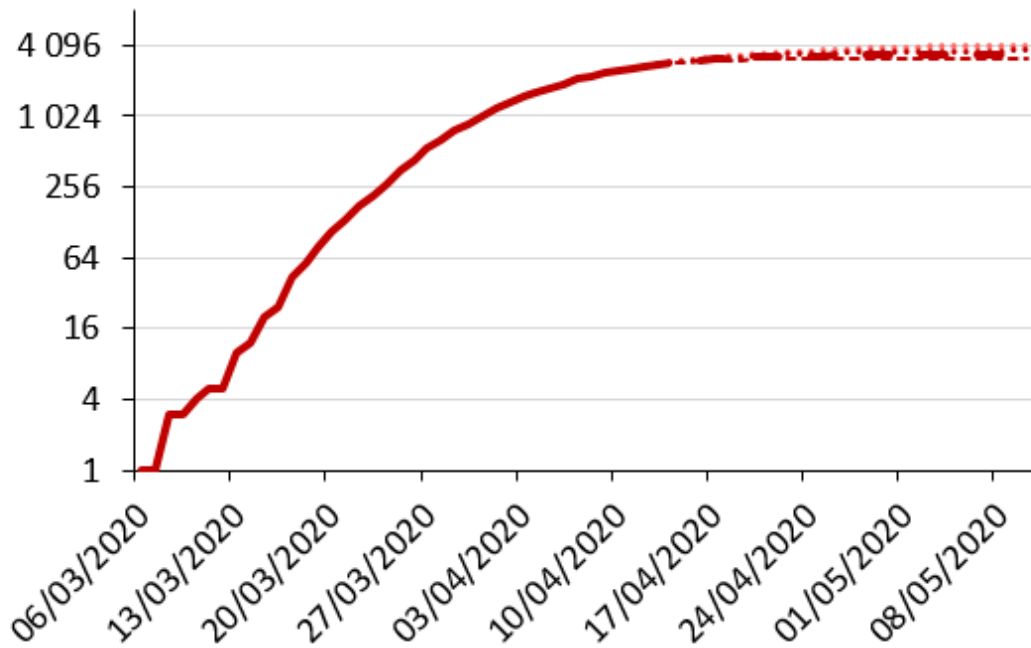


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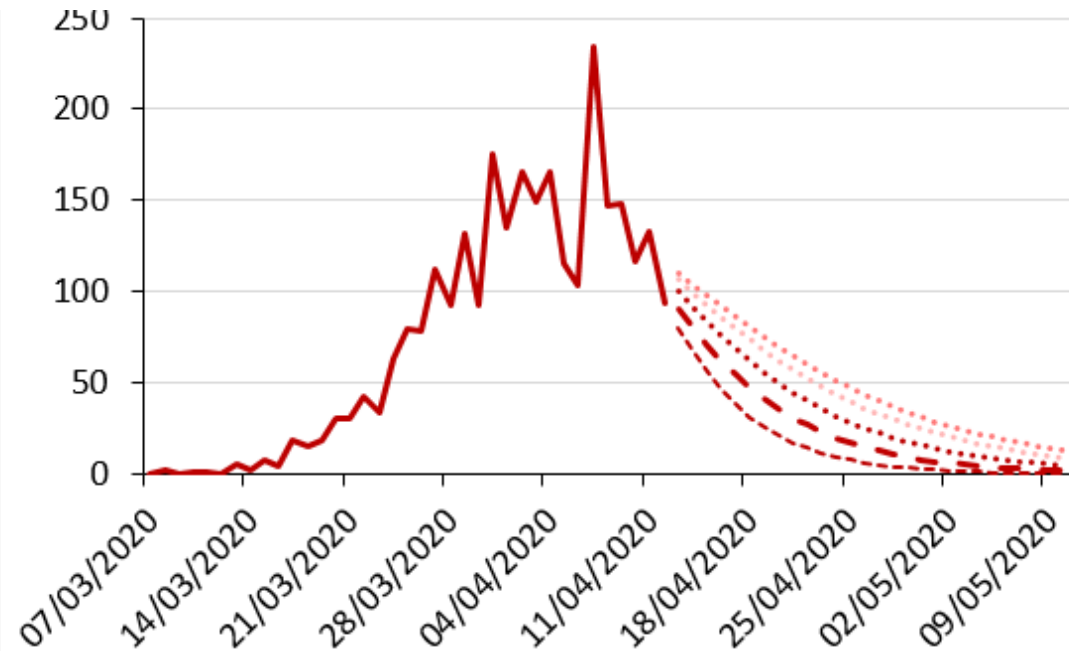
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## Cumulated



## Daily

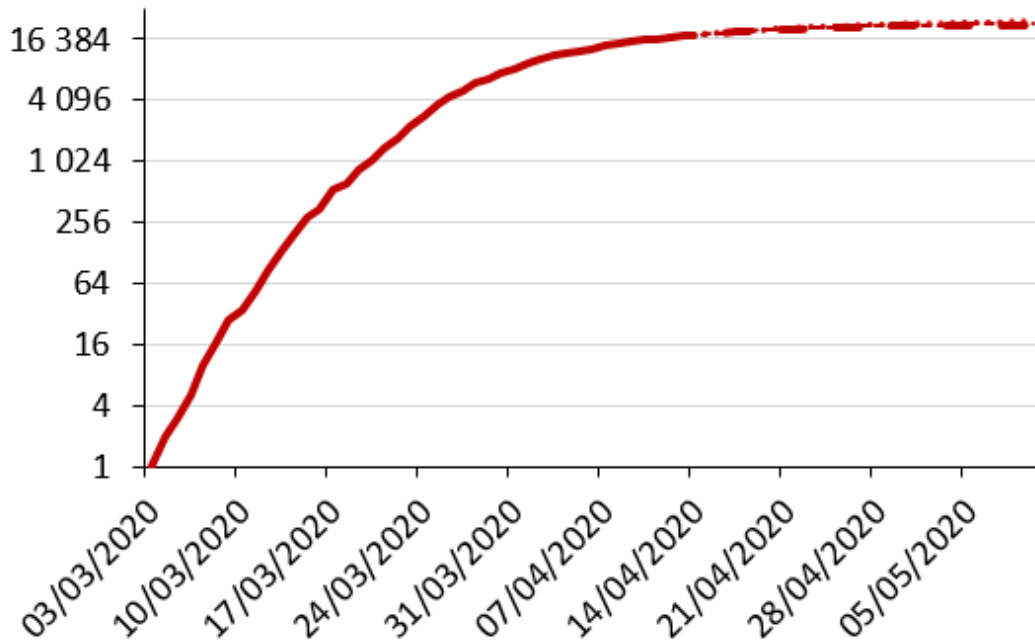


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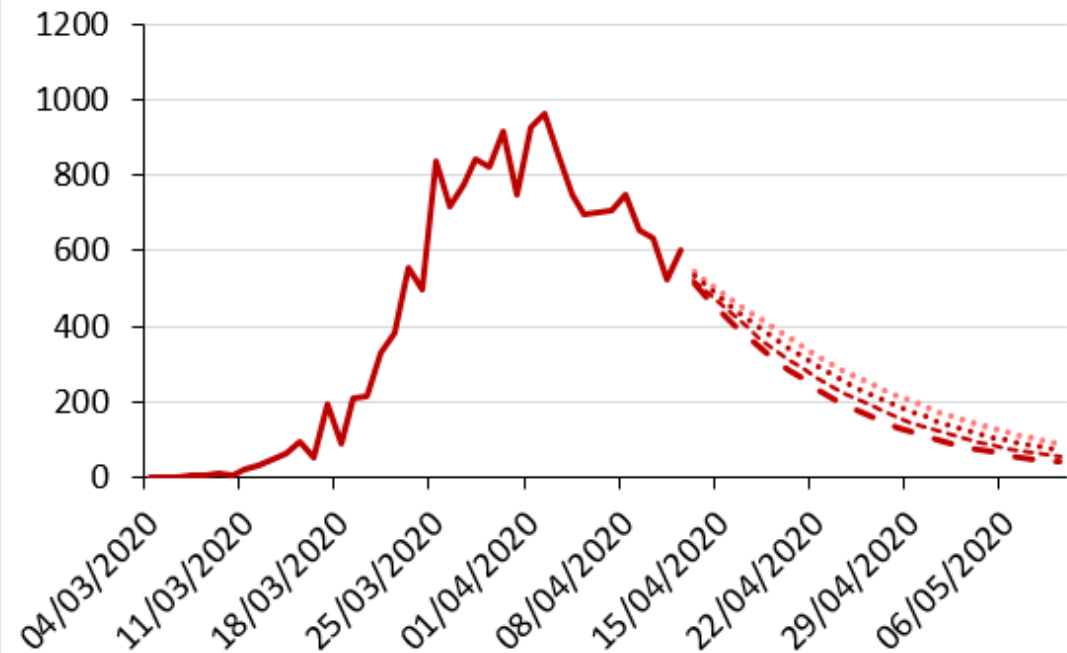
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### Cumulated



### Daily

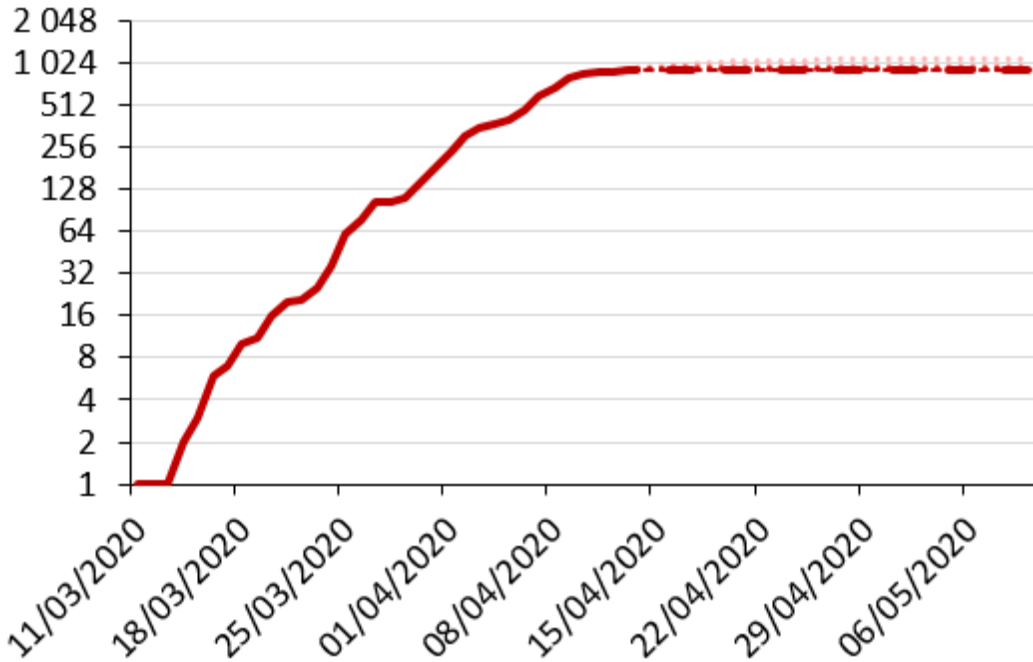


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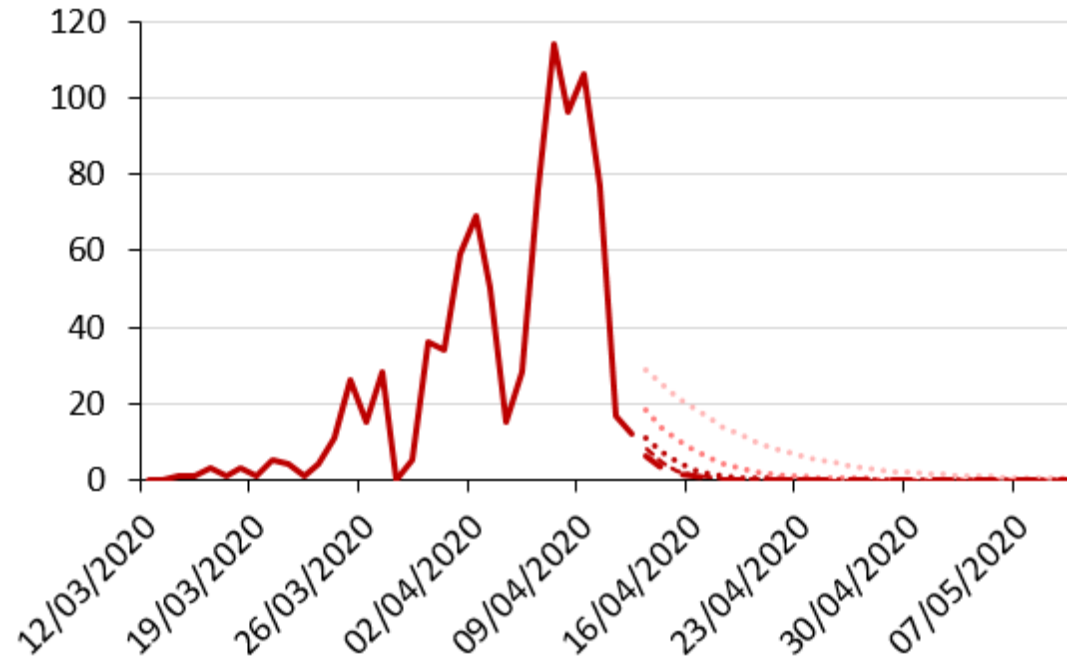
# Sweden

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### Cumulated



### Daily



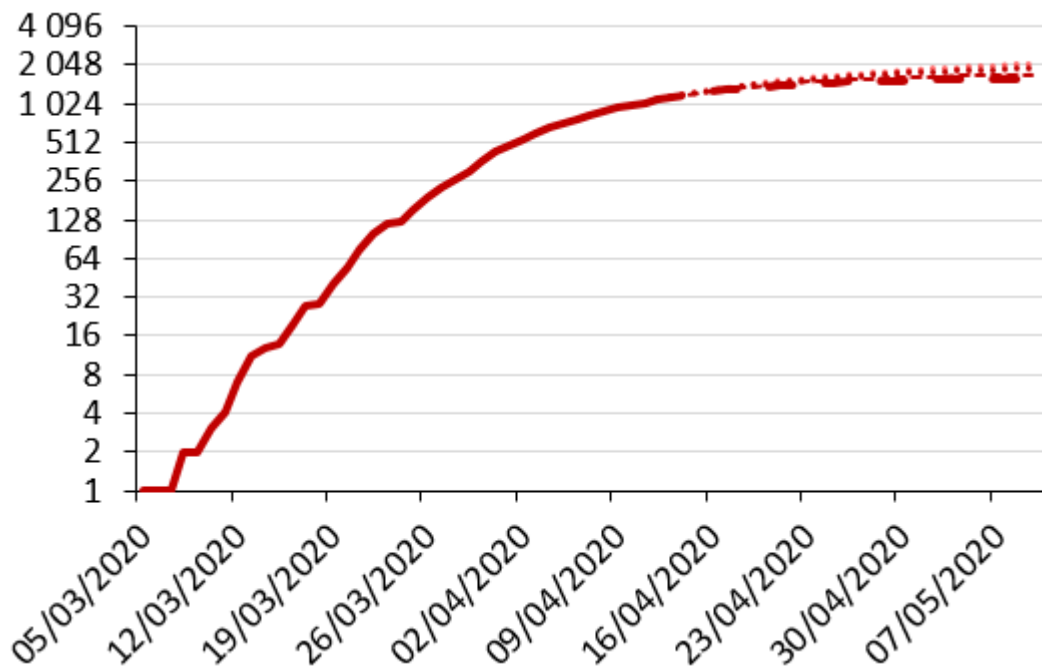
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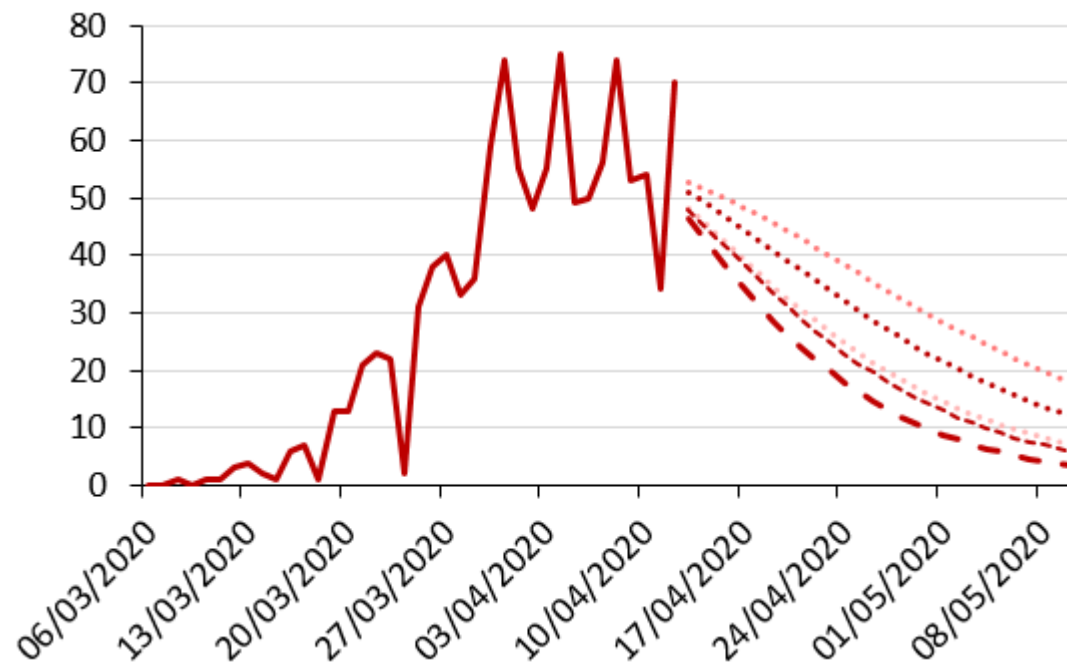
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## Cumulated



## Daily

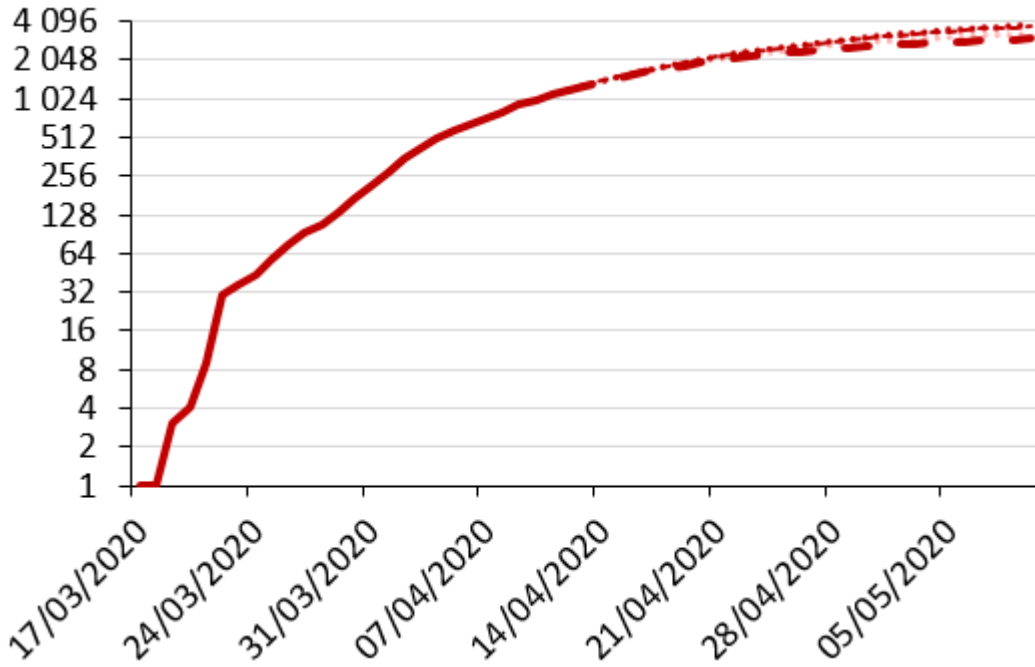


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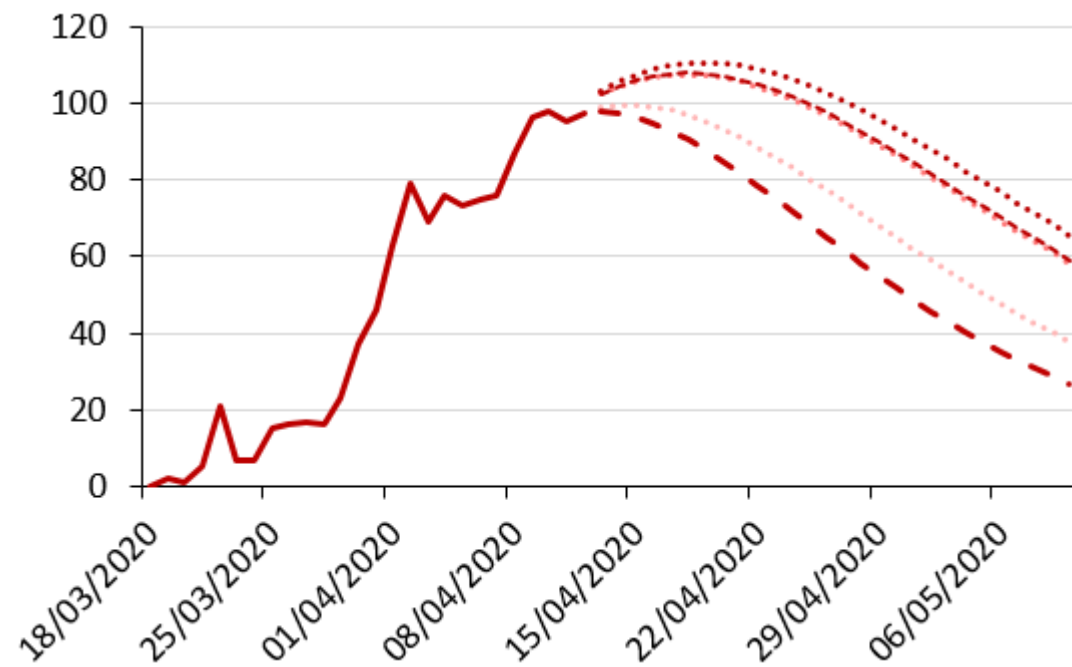
# Turkey

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### Cumulated



### Daily

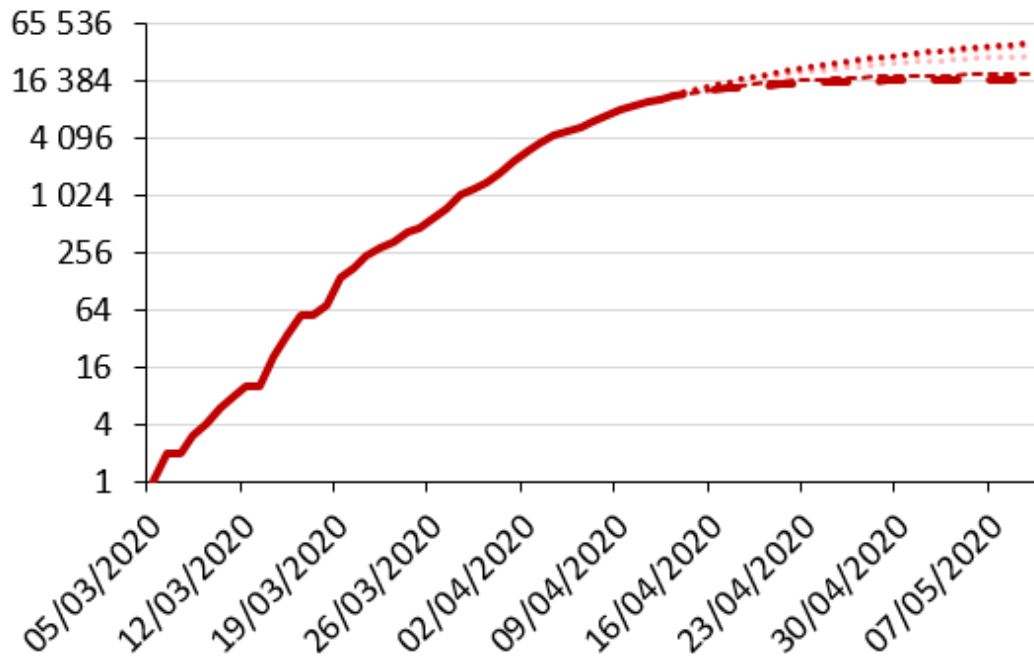


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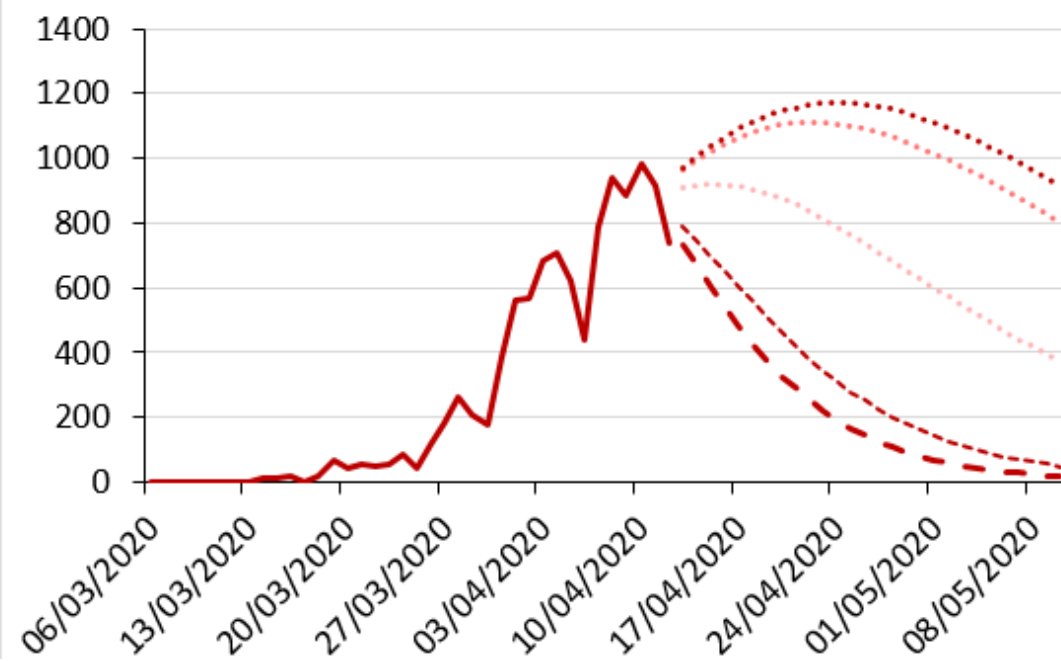
# United Kingdom

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## Cumulated



## Daily

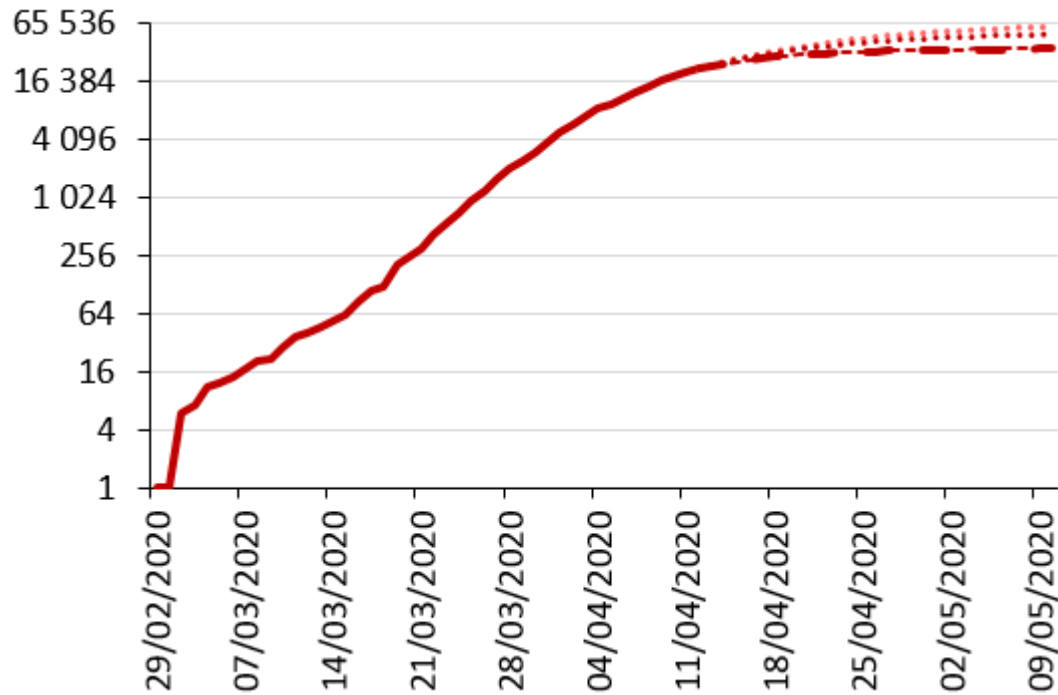


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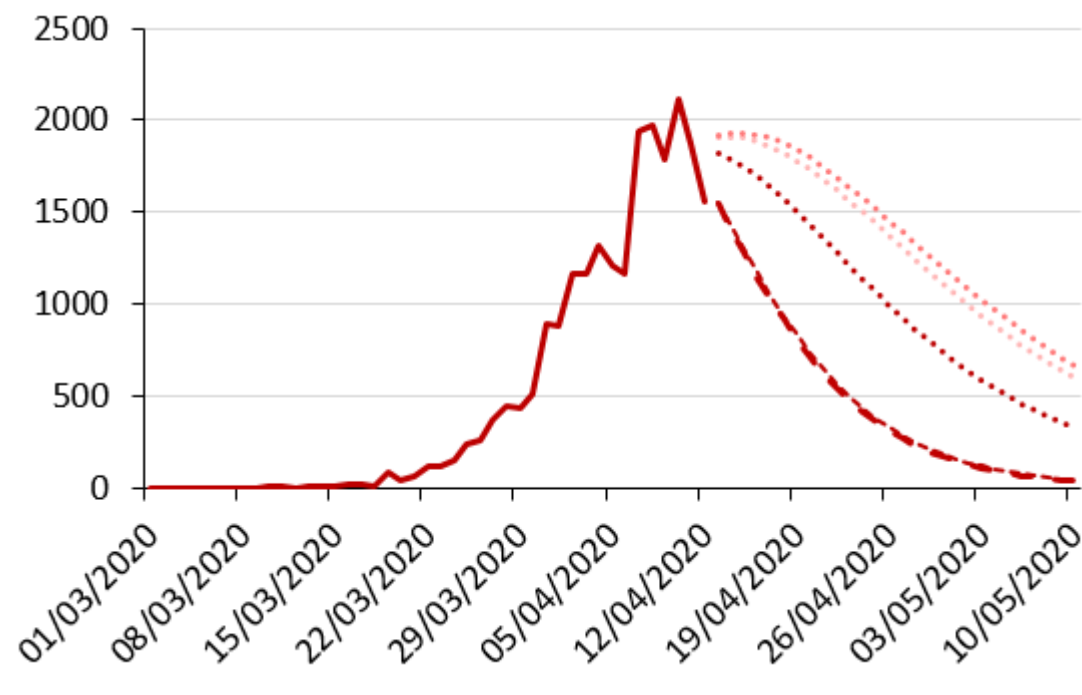
# USA

CONFIRMED 9 days'fit 8 days'fit 7 days'fit 6 days'fit 5 days'fit

### Cumulated



### Daily



Data: The Johns Hopkins University, Politolog.com

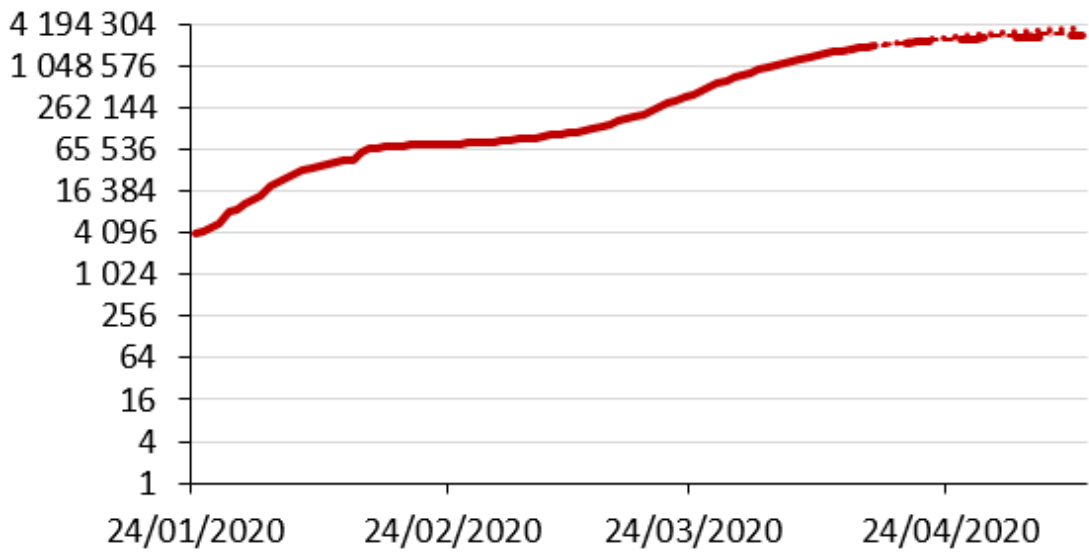
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# CUMULATED CASES - PROJECTIONS

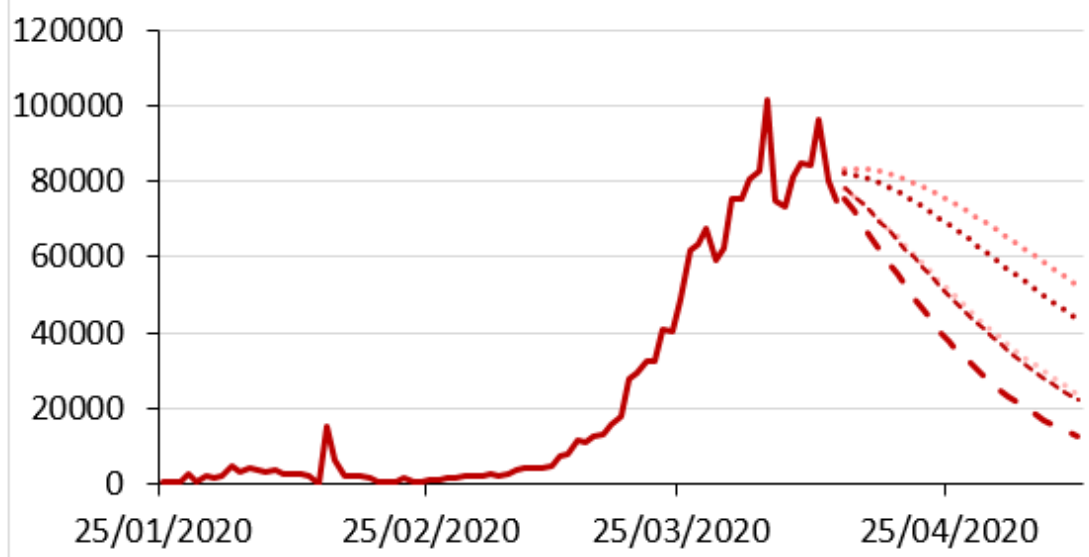
# World

CONFIRMED 9 days'fit 8 days'fit 7 days'fit 6 days'fit 5 days'fit

### Cumulated



### Daily

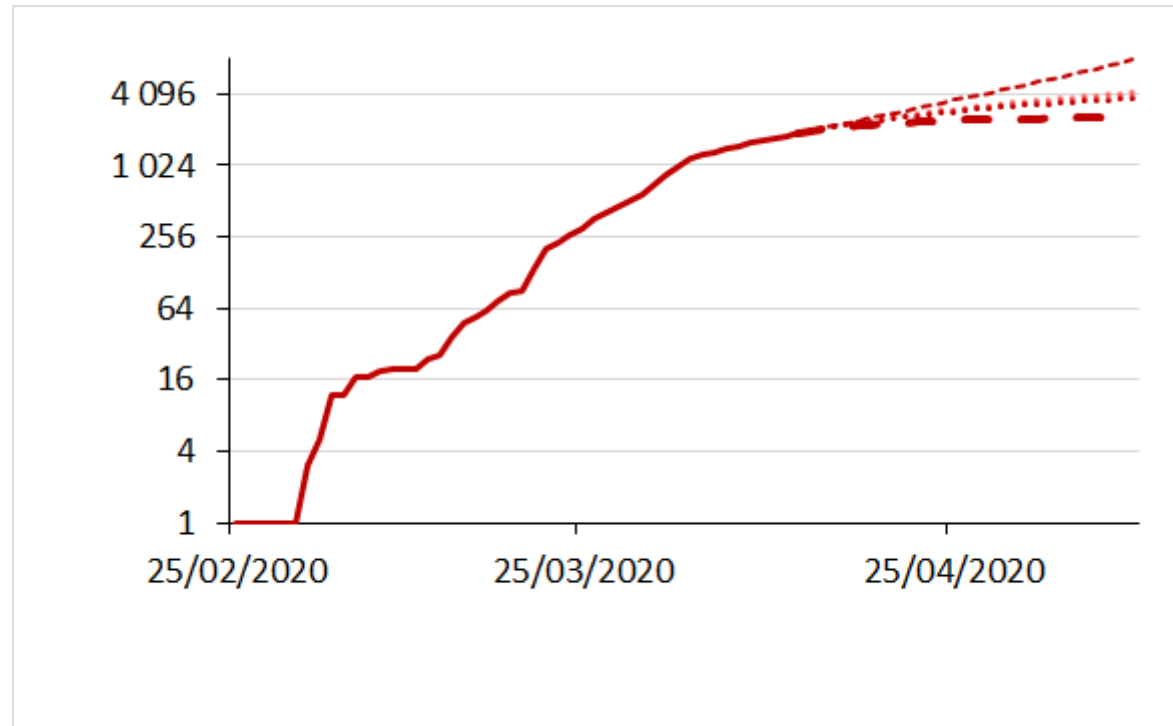


Data: The Johns Hopkins University, Politolog.com

# Algeria

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

Cumulated

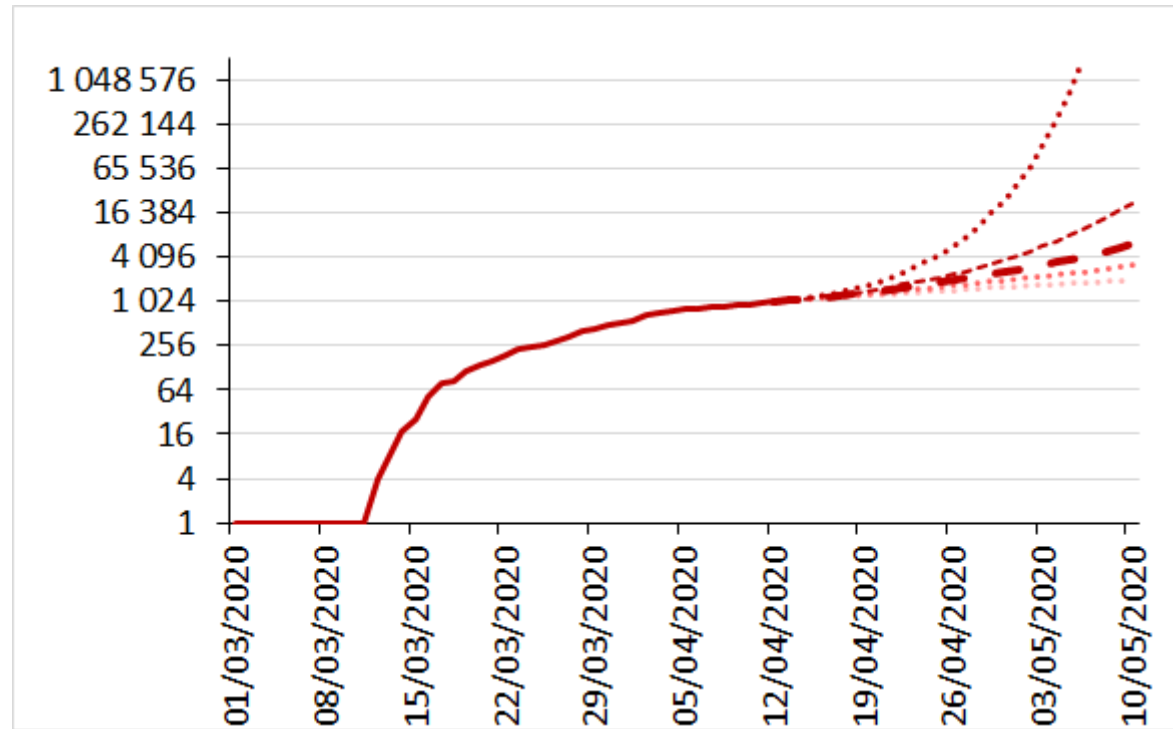


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# Armenia

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## Cumulated



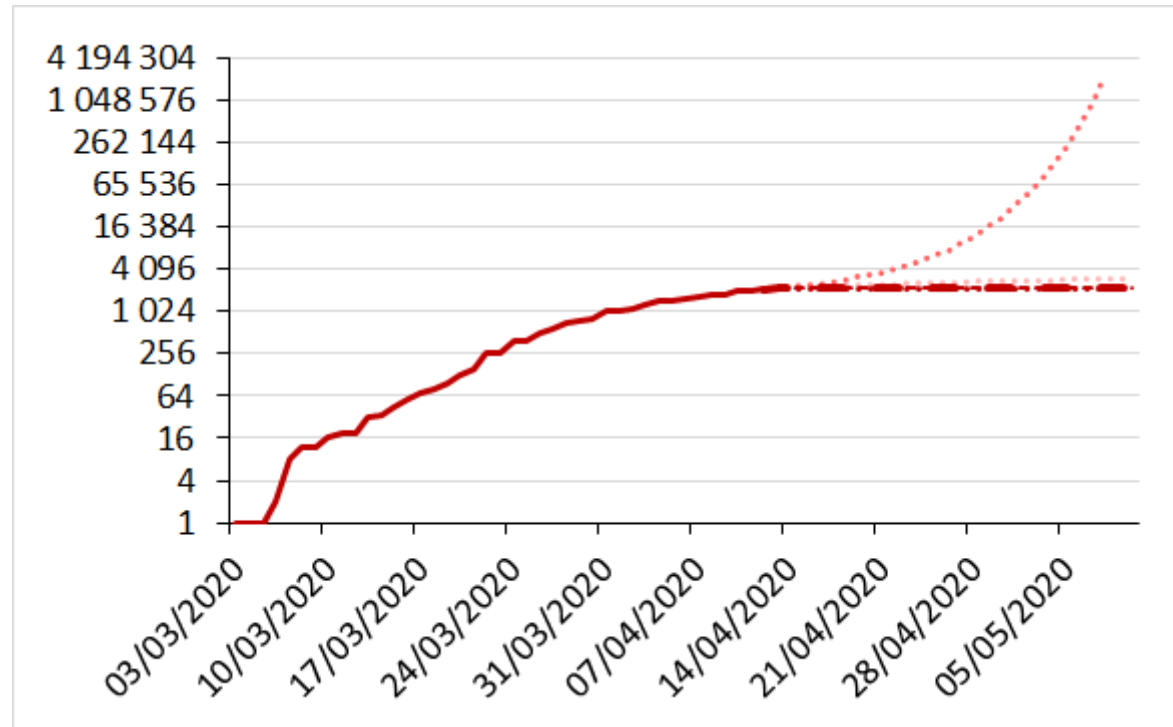
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# Argentina

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## Cumulated

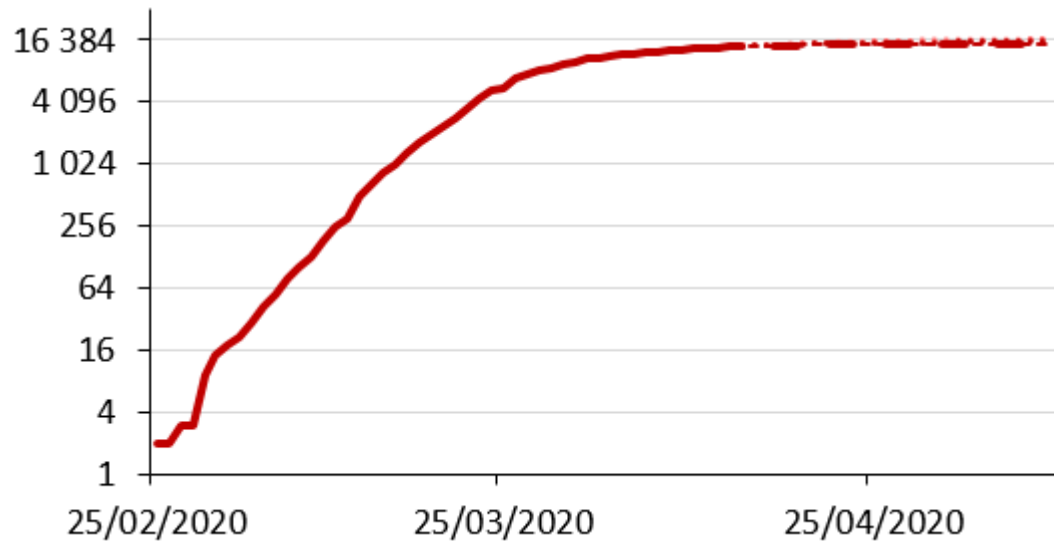


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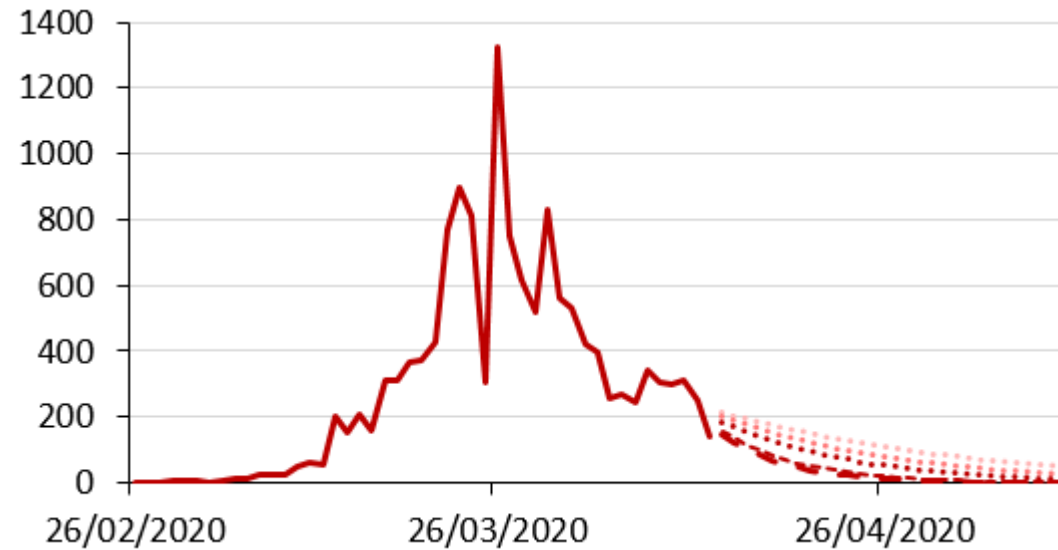
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## Cumulated



## Daily

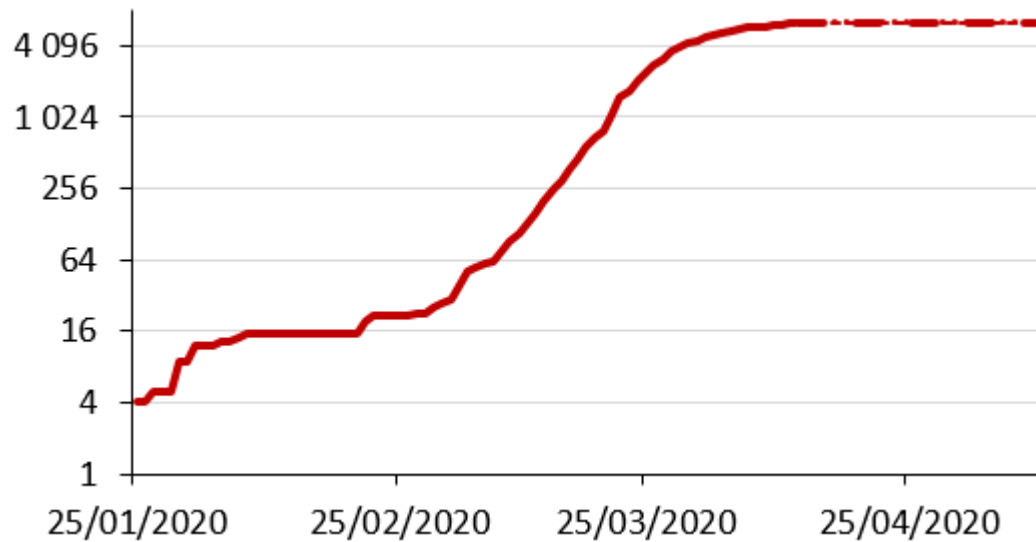


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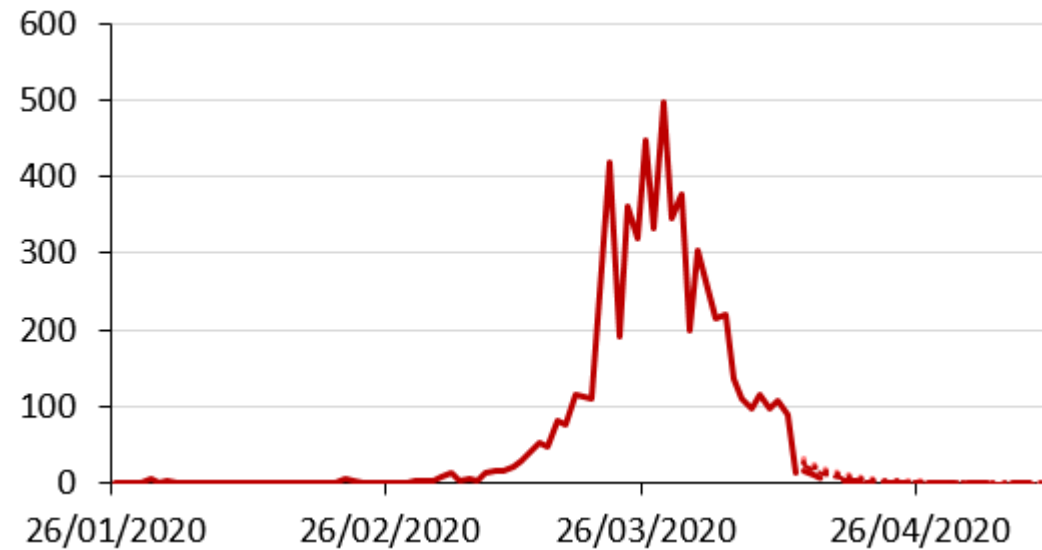
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## Cumulated



## Daily

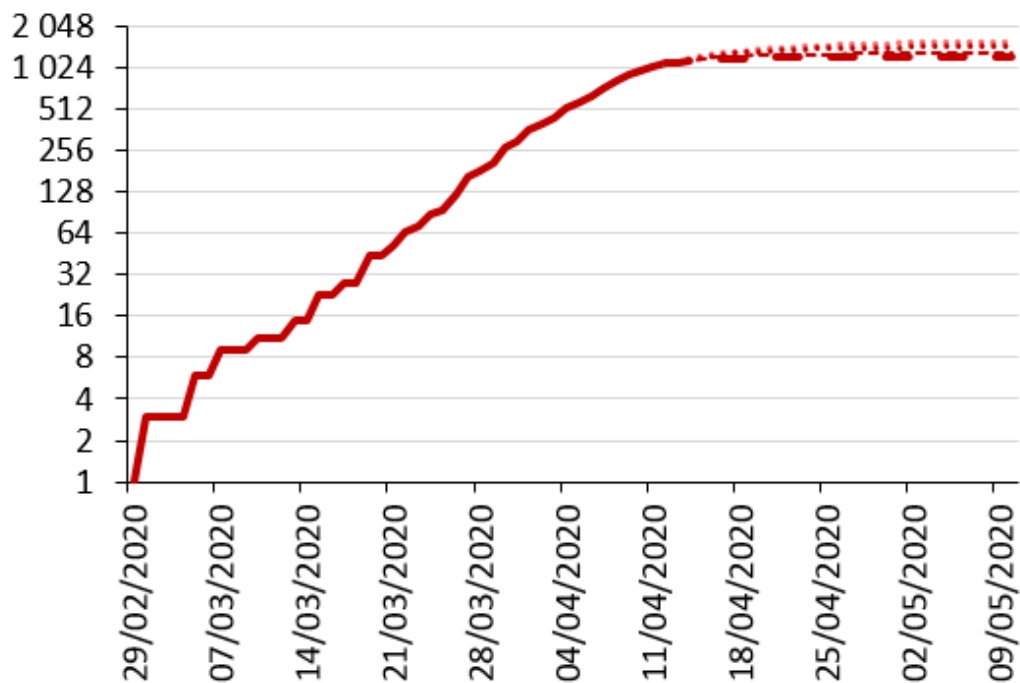


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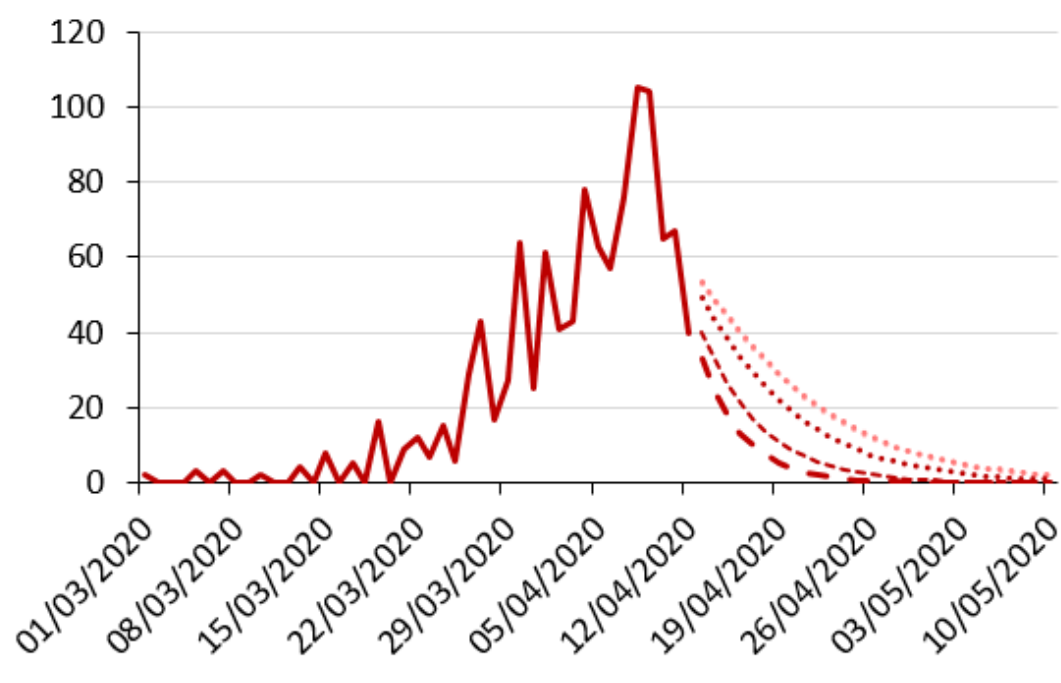
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### Cumulated



### Daily

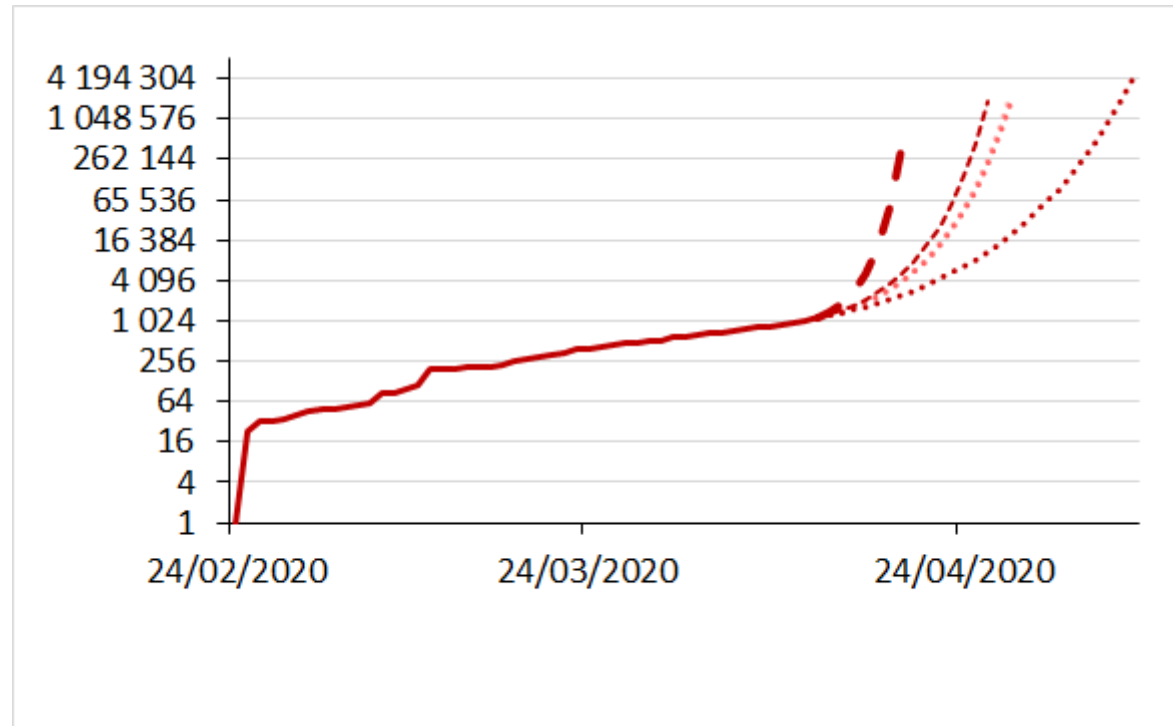


Data: The Johns Hopkins University, Politolog.com

# Bahrain

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## Cumulated

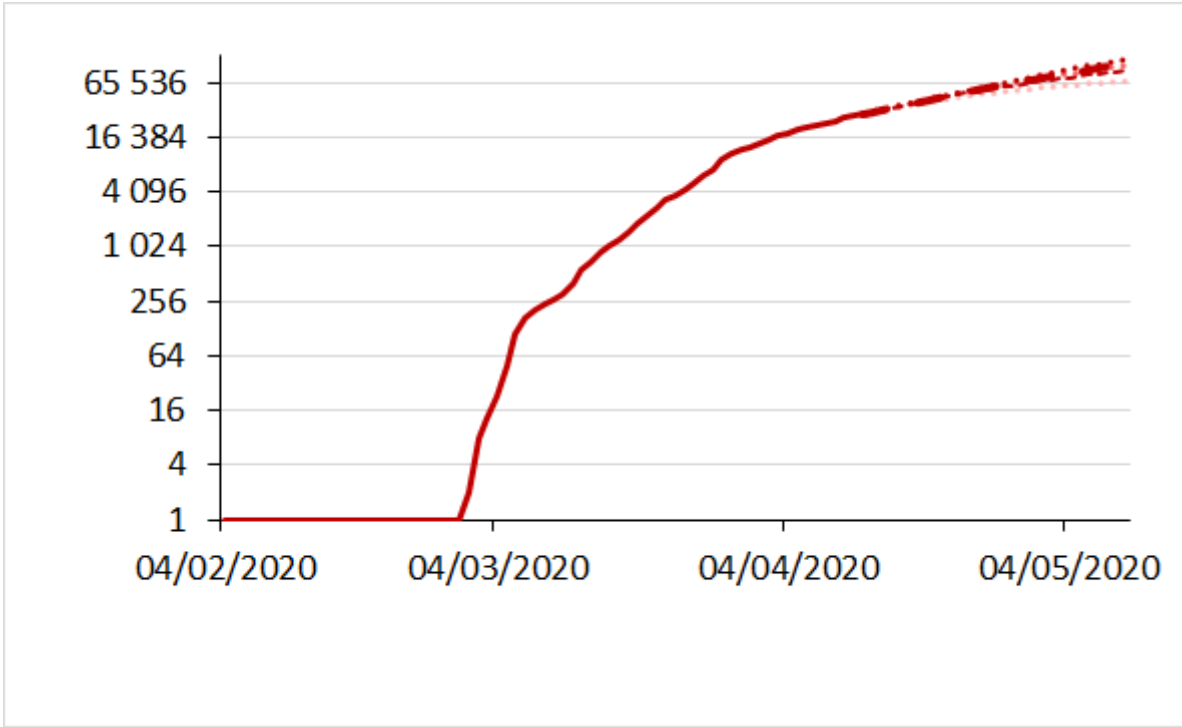


Data: The Johns Hopkins University, Politolog.com

# Belgium

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## Cumulated

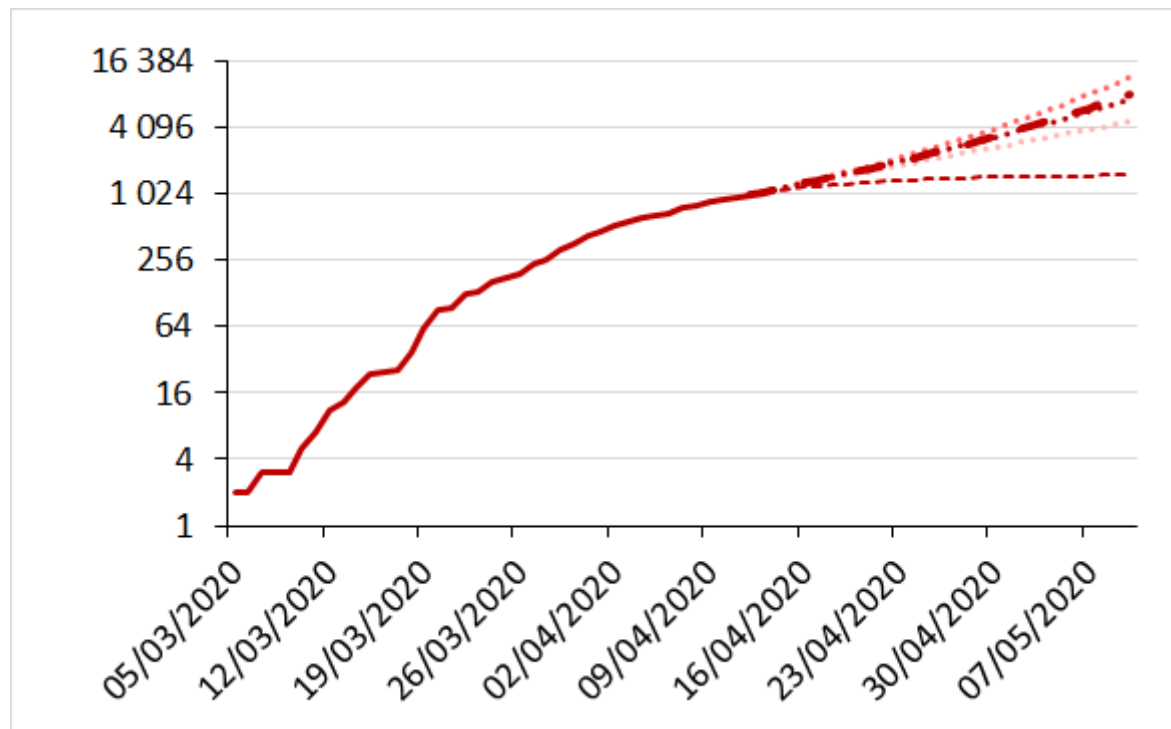


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# Bosnia and Herzegovina

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Cumulated

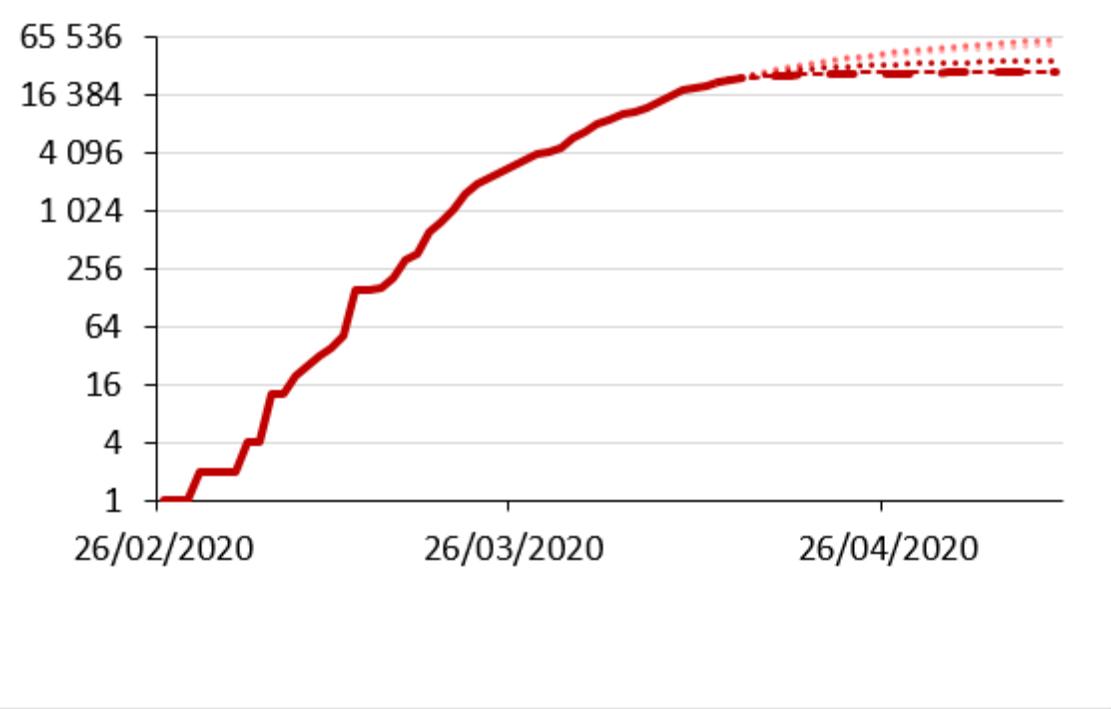


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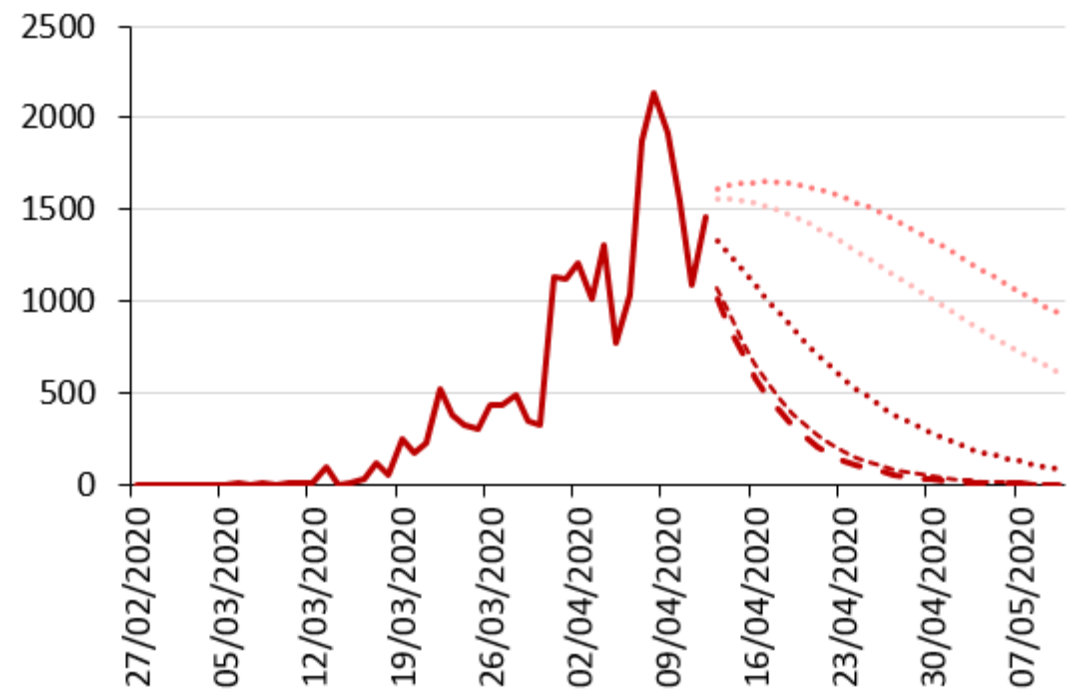
# Brazil

— CONFIRMED    ····· 9 days'fit    ····· 8 days'fit    ····· 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

### Cumulated



### Daily



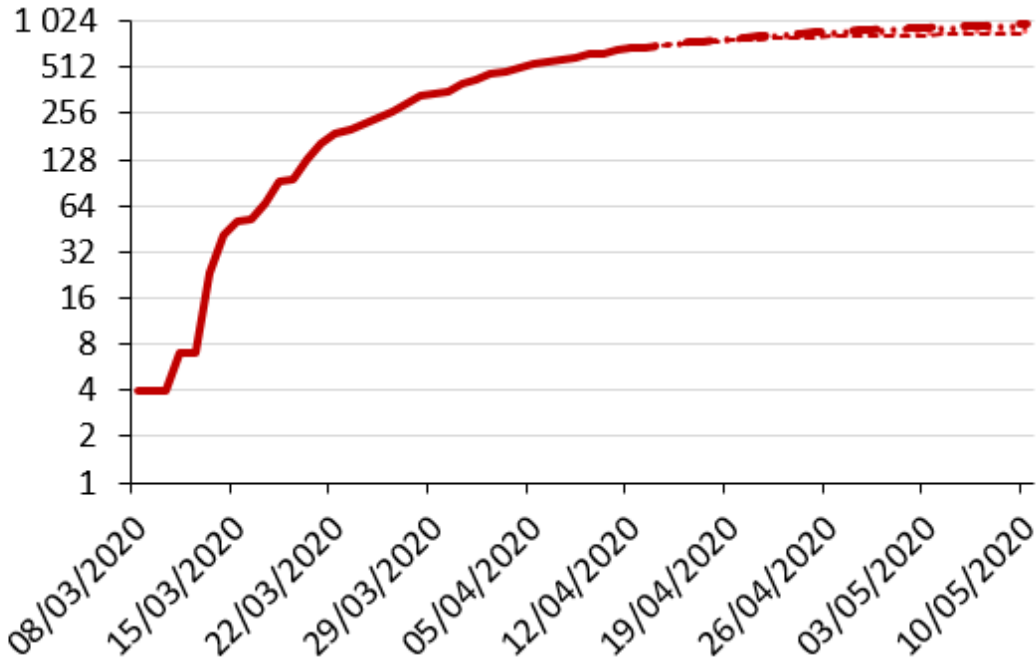
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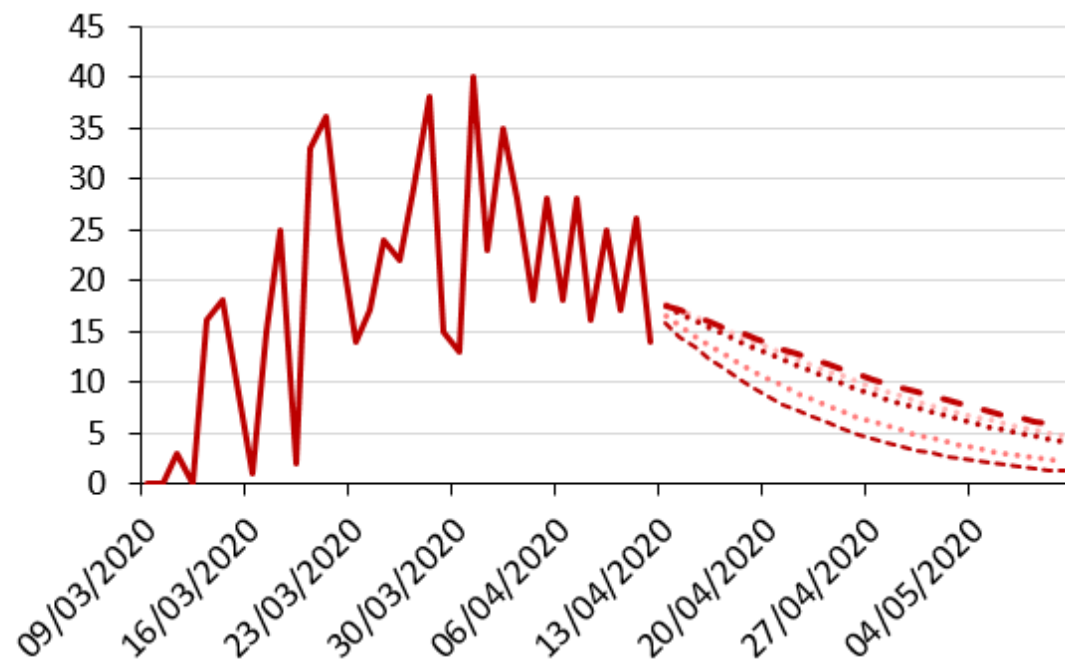
# Bulgaria

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### Cumulated



### Daily

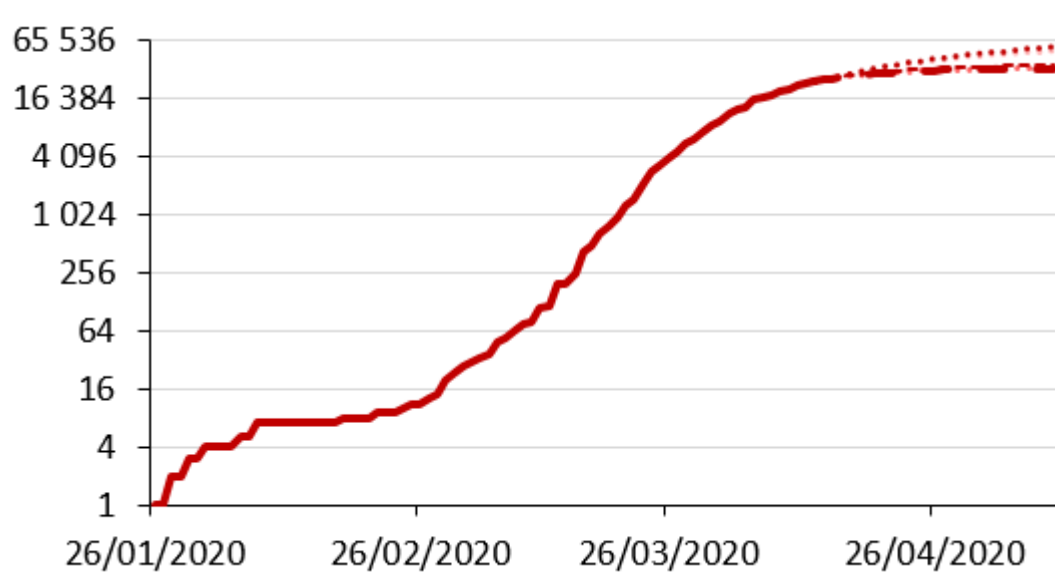


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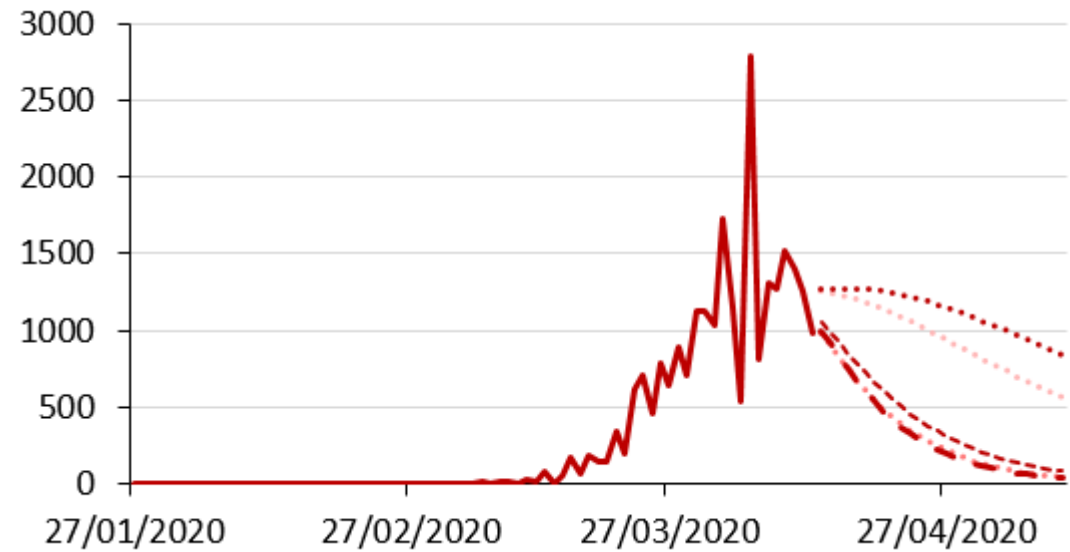
# Canada

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## Cumulated



## Daily

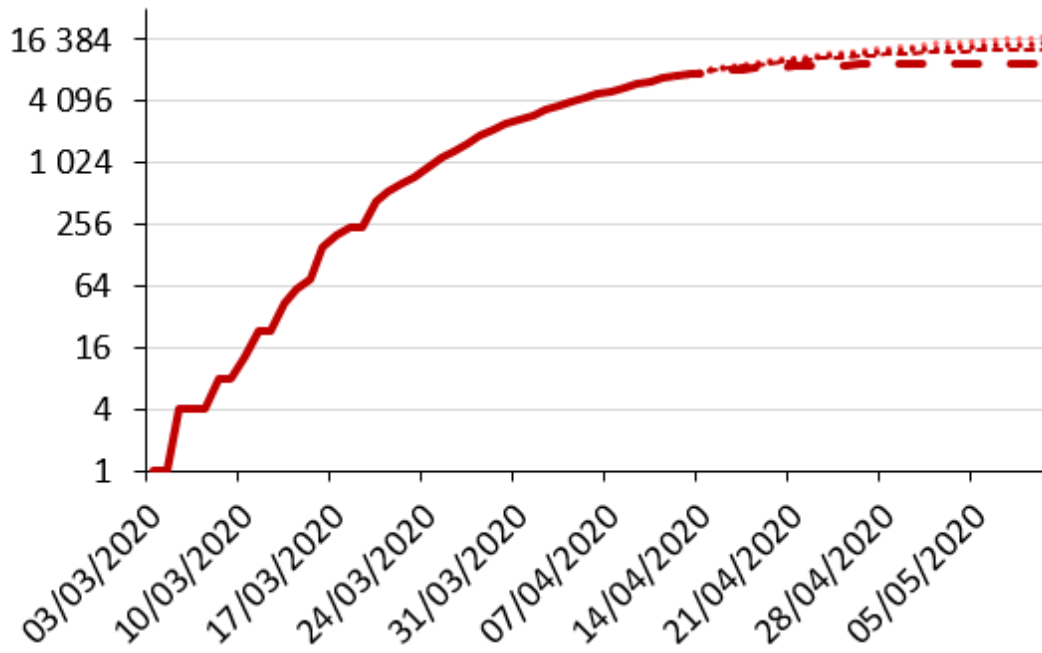


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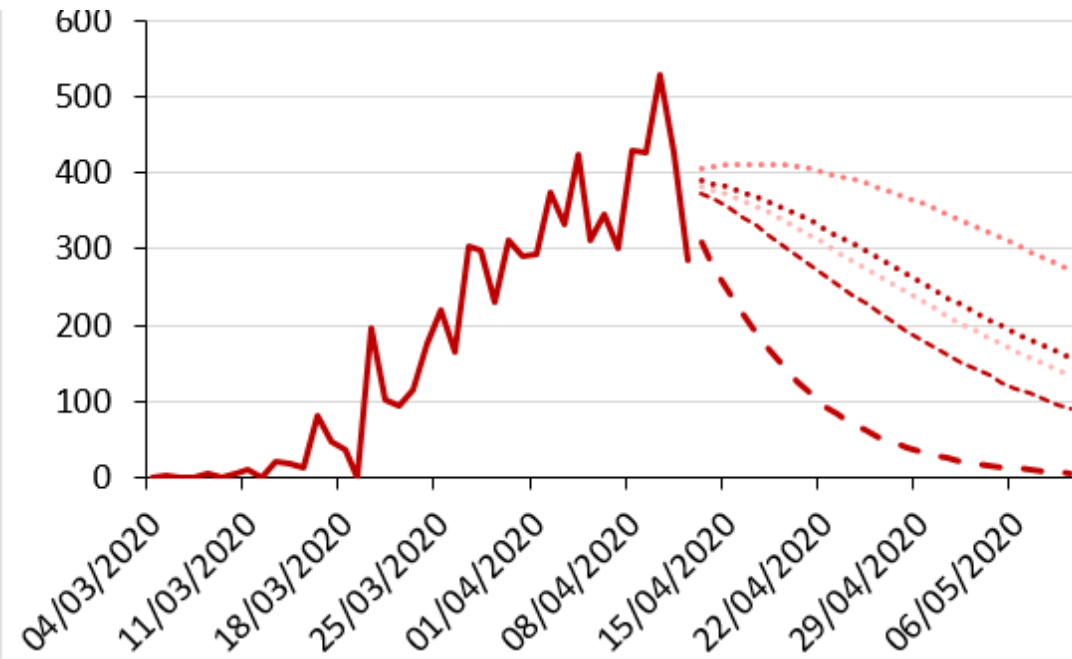
# Chile

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### Cumulated



### Daily

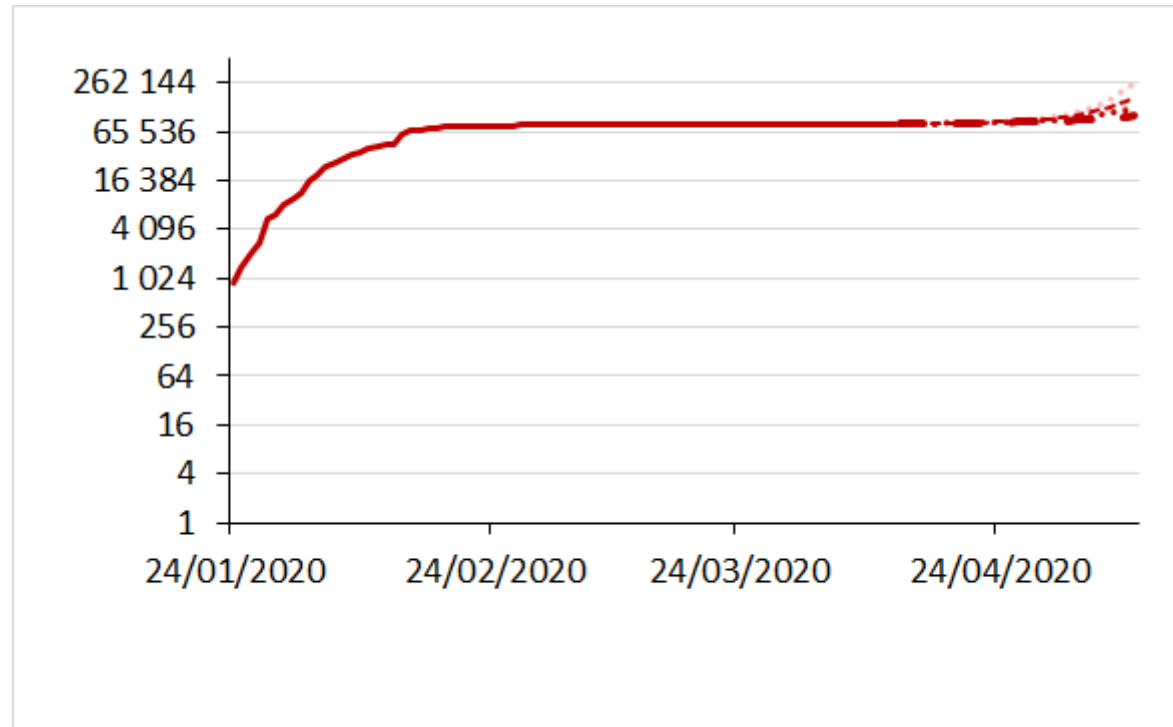


Data: The Johns Hopkins University, Politolog.com

# China

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## Cumulated

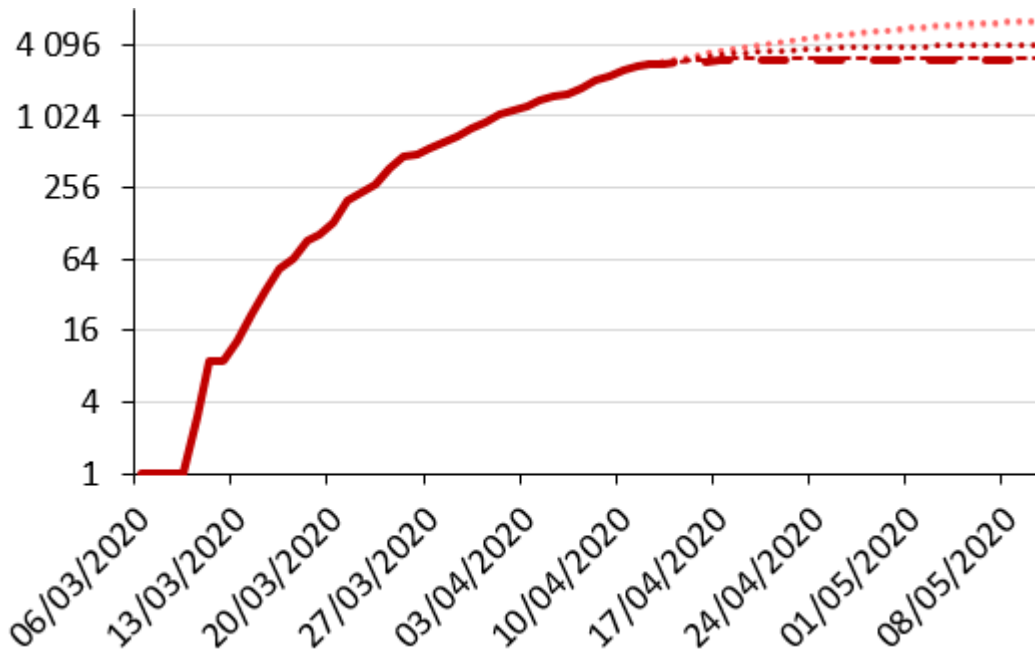


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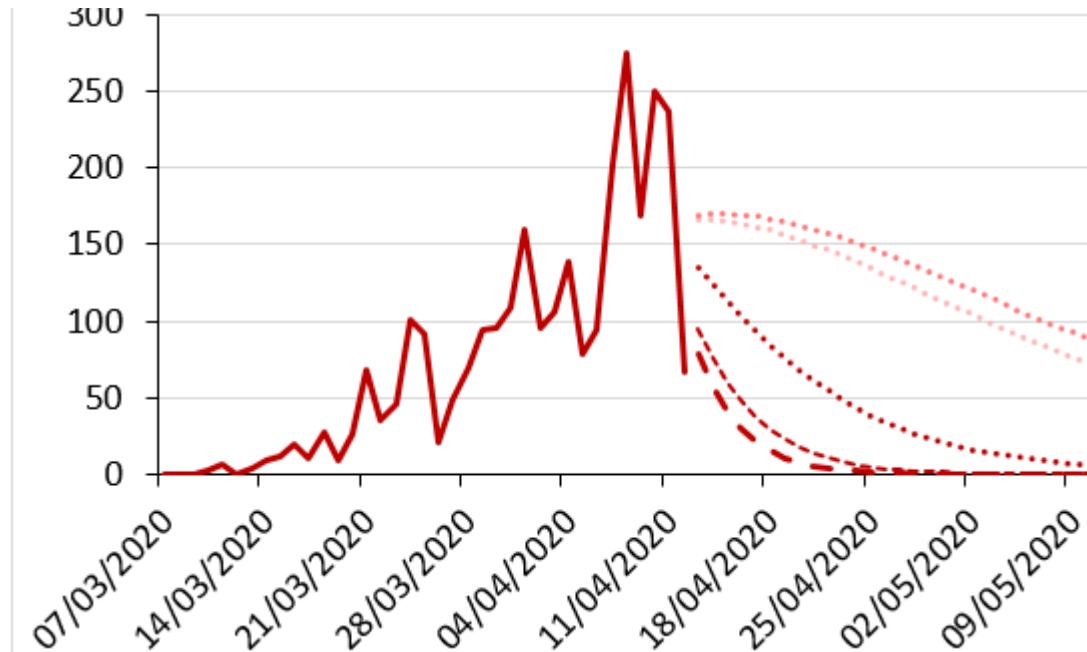
# Colombia

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### Cumulated



### Daily

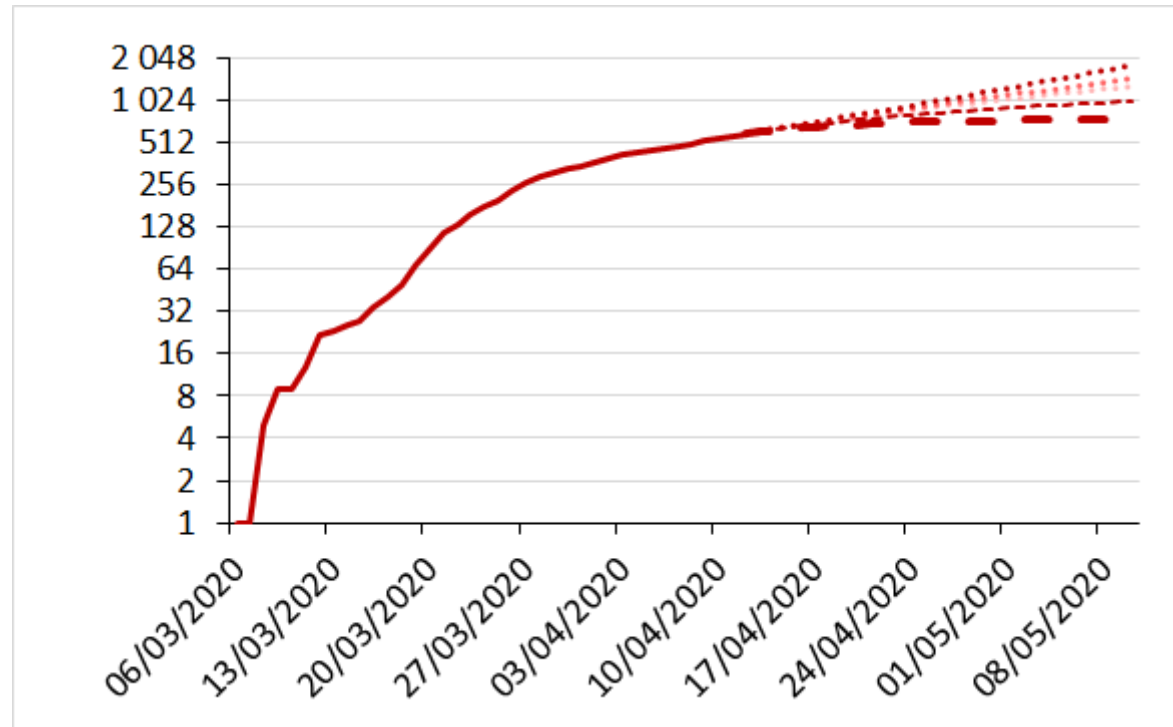


Data: The Johns Hopkins University, Politolog.com

# Costa Rica

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Cumulated

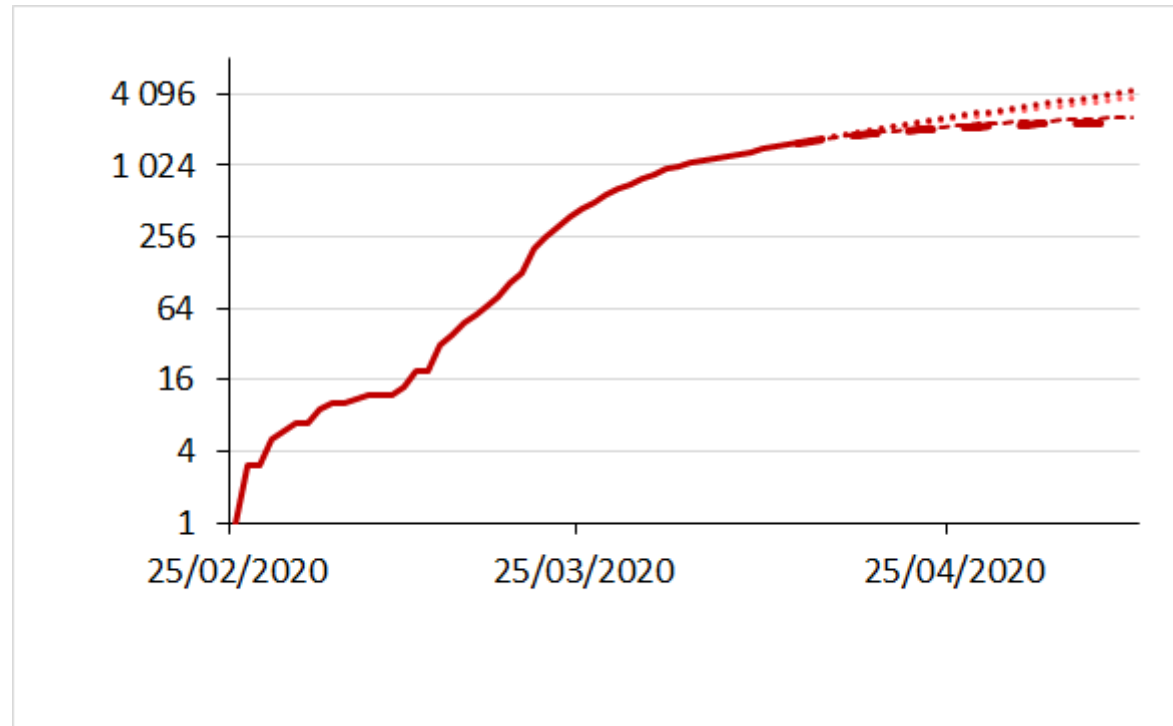


Data: The Johns Hopkins University, Politolog.com

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## Cumulated

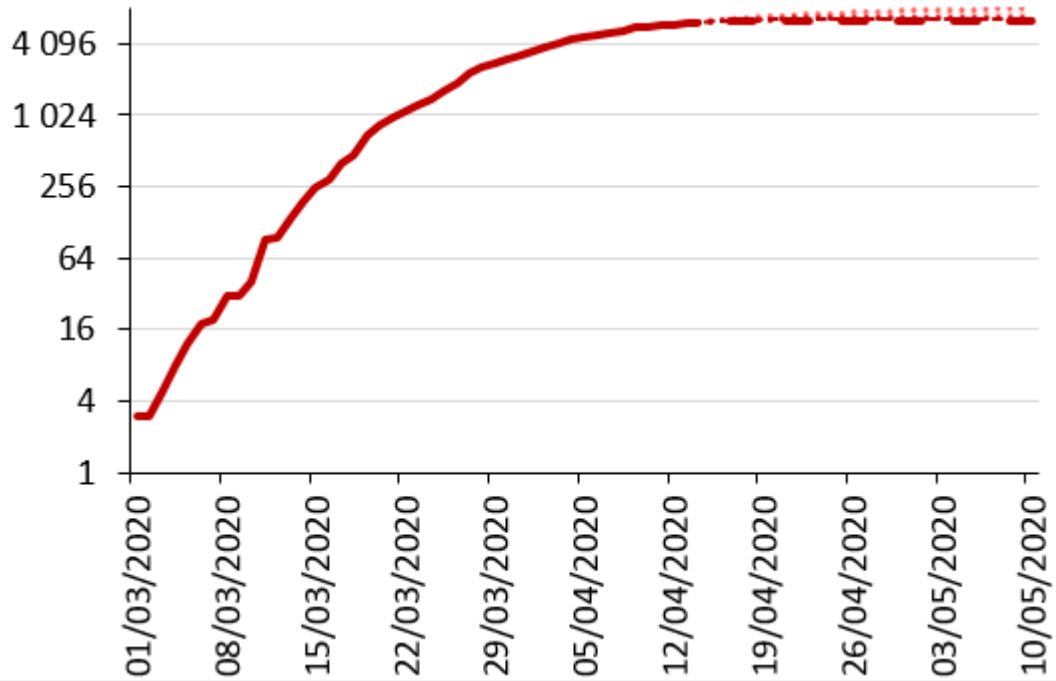


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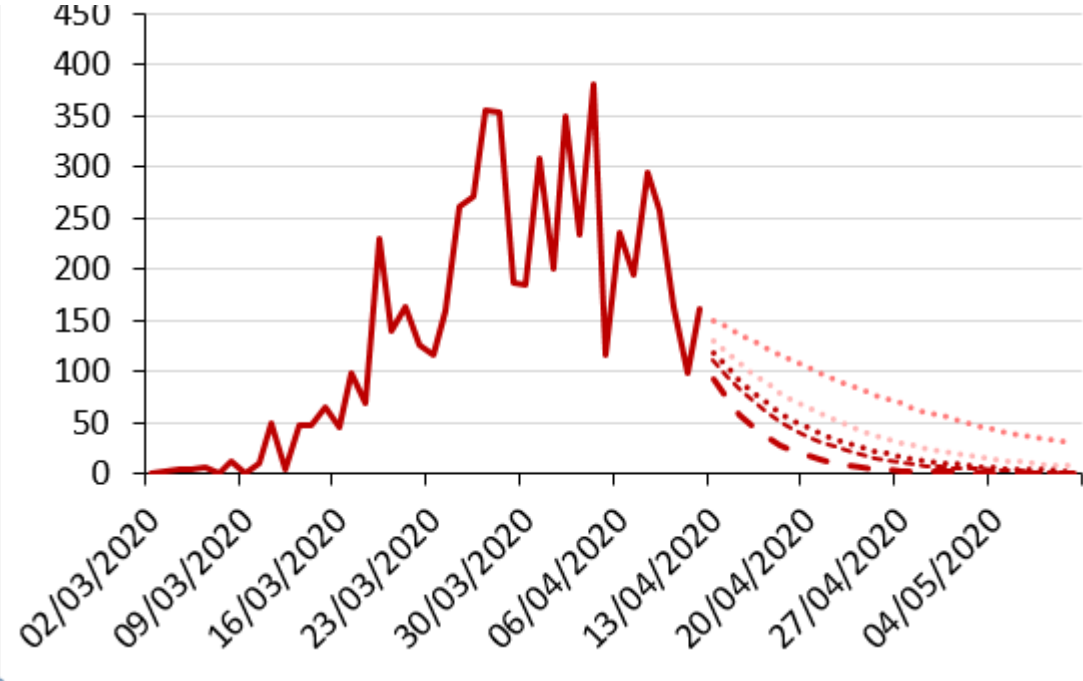
# Czech Republic

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### Cumulated



### Daily



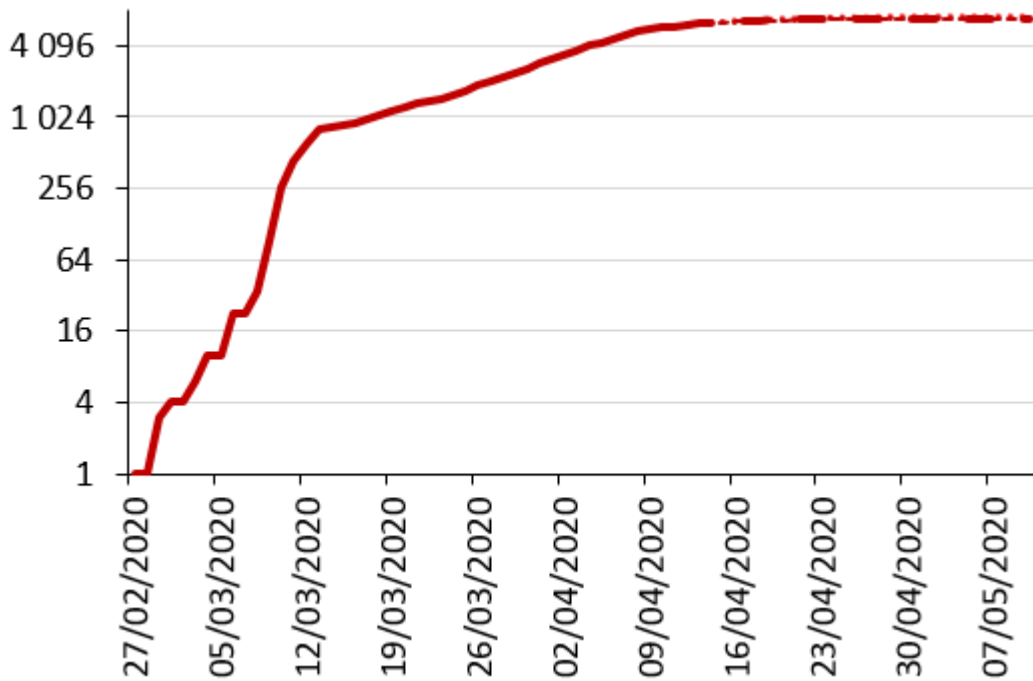
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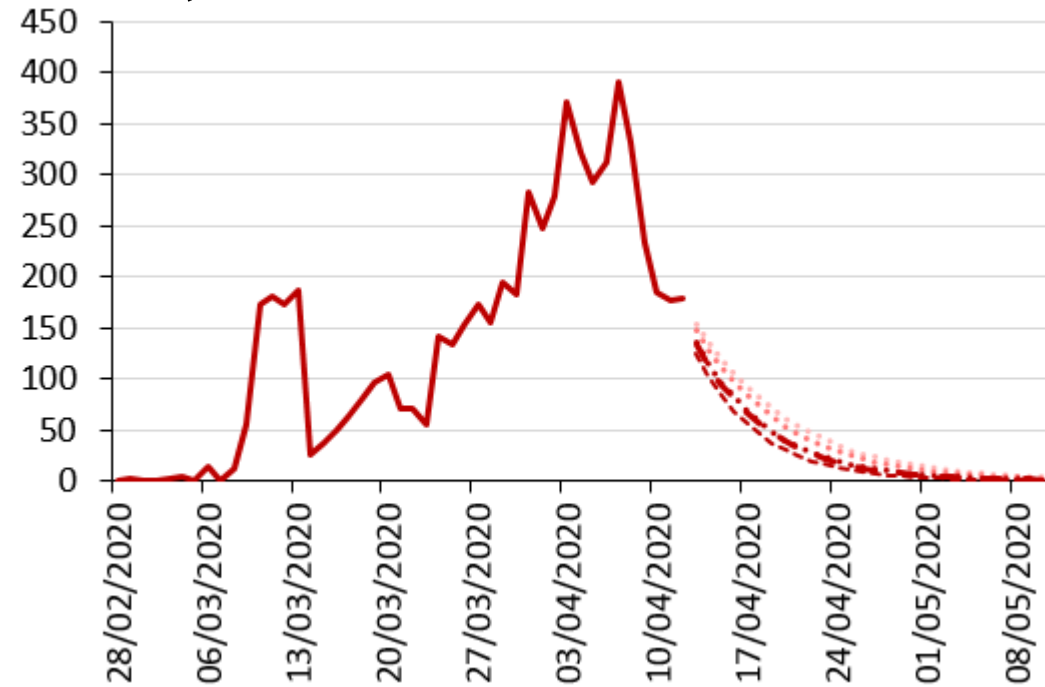
# Denmark

CONFIRMED 9 days' fit 8 days' fit 7 days' fit 6 days' fit 5 days' fit

### Cumulated



### Daily

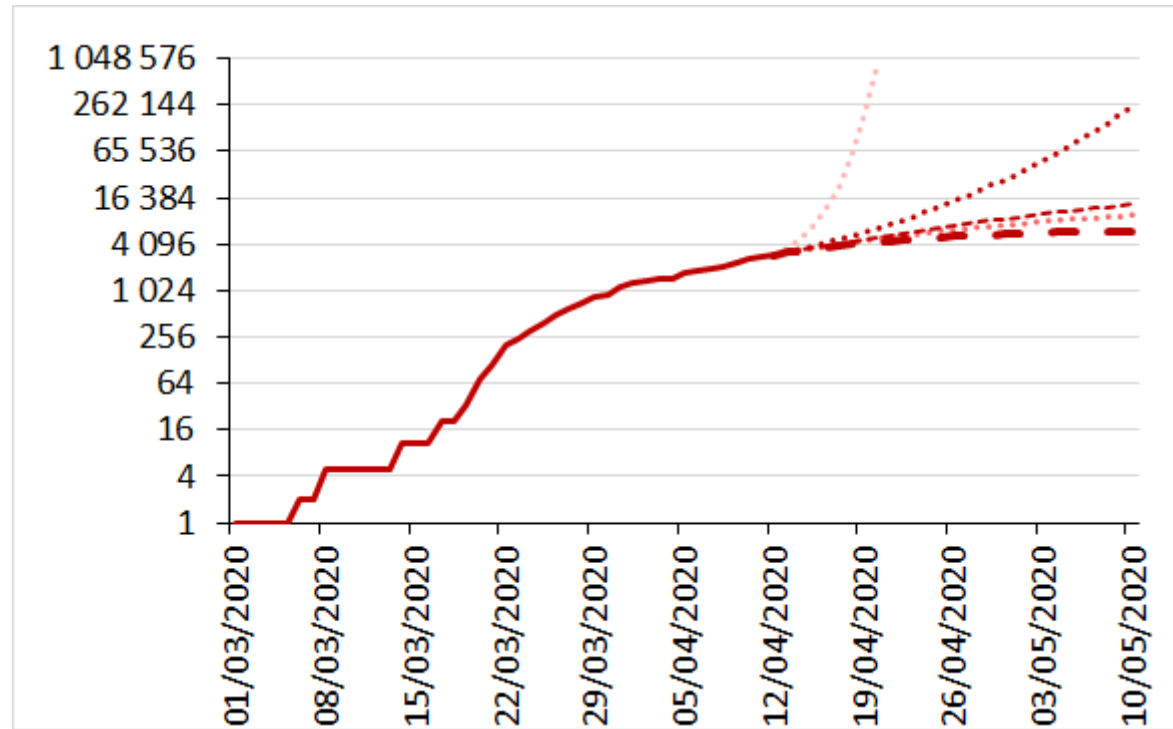


Data: The Johns Hopkins University, Politolog.com

# Dominican Republic

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

Cumulated

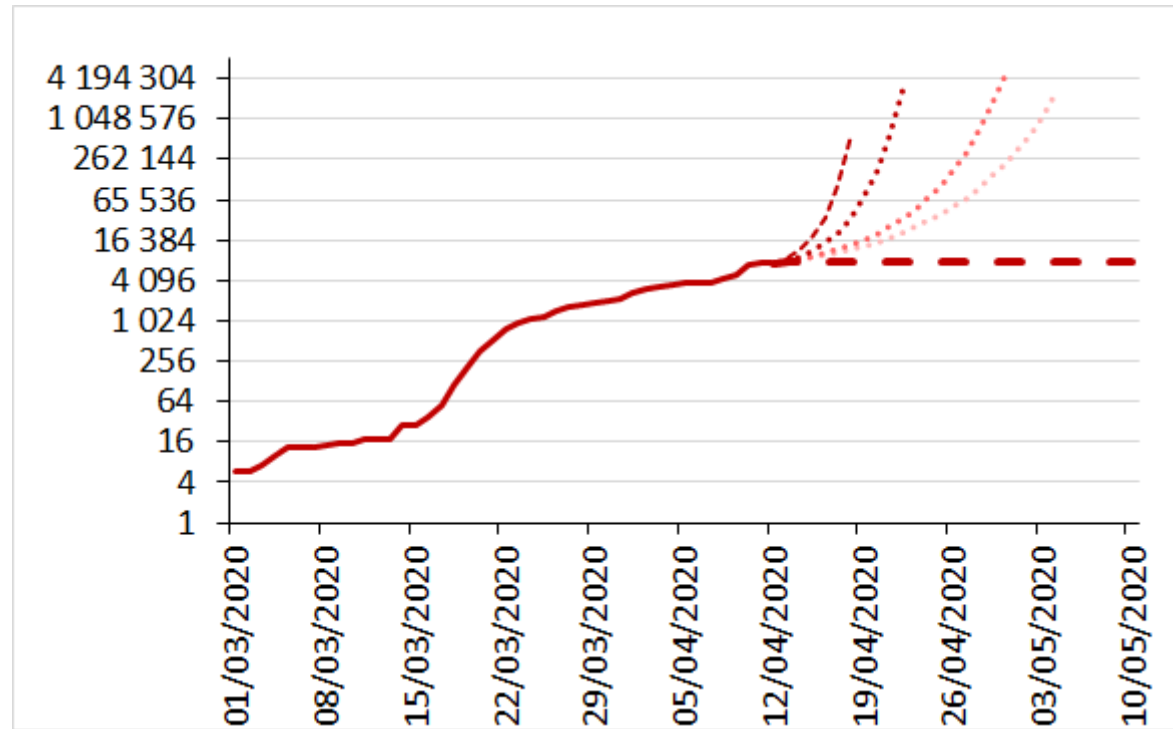


Data: The Johns Hopkins University, Politolog.com

# Ecuador

— CONFIRMED    ..... 9 days' fit    ..... 8 days' fit    ..... 7 days' fit    - - - 6 days' fit    - - - 5 days' fit

Cumulated

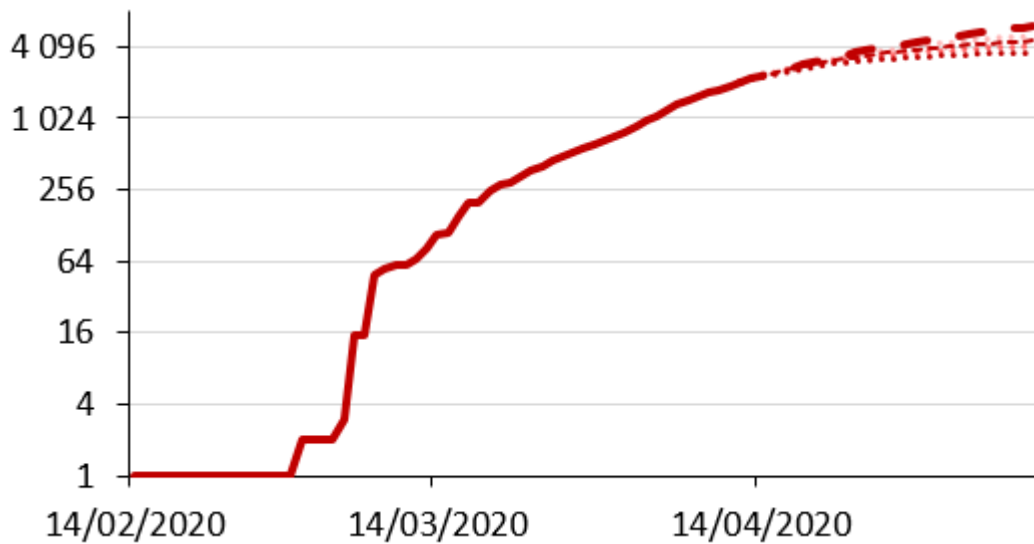


Data: The Johns Hopkins University, Politolog.com

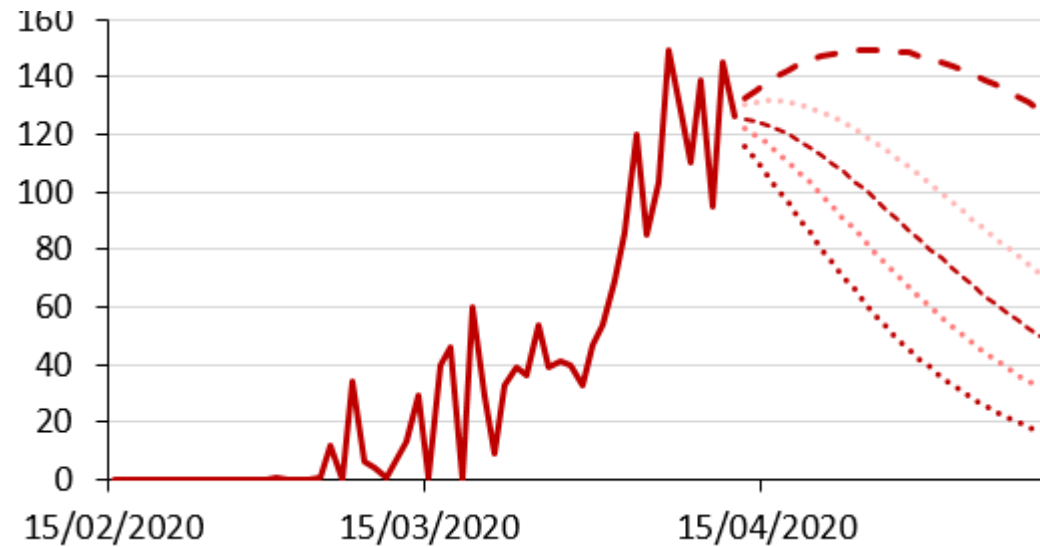
# Egypt

— CONFIRMED    ..... 9 days' fit    ..... 8 days' fit    ..... 7 days' fit    - - - - 6 days' fit    - - - - 5 days' fit

### Cumulated



### Daily

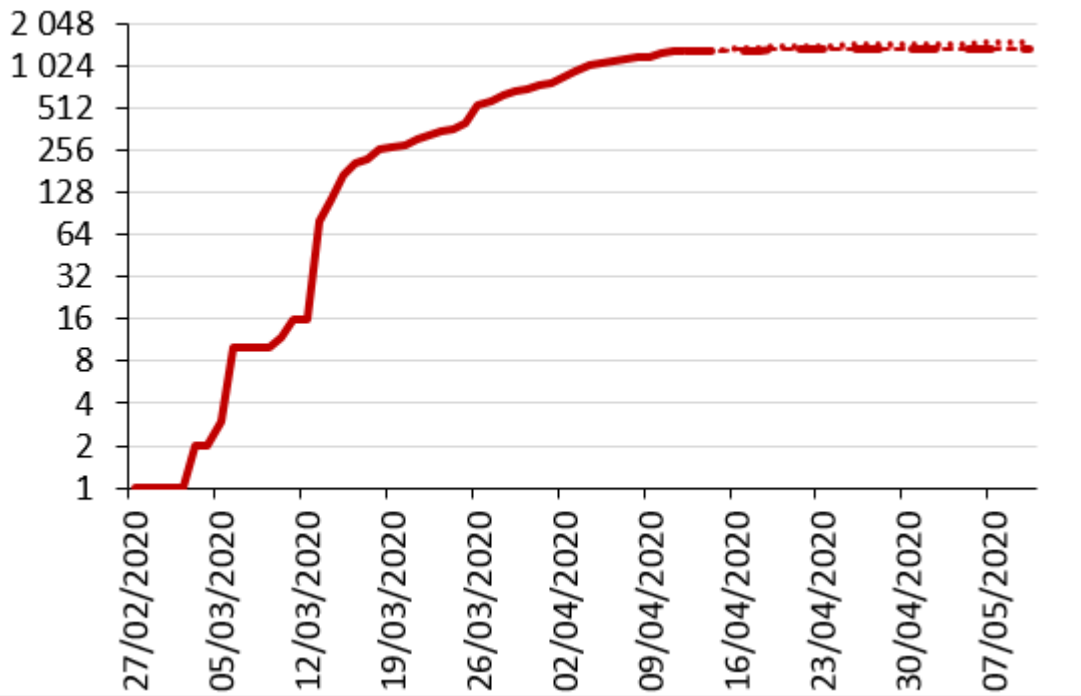


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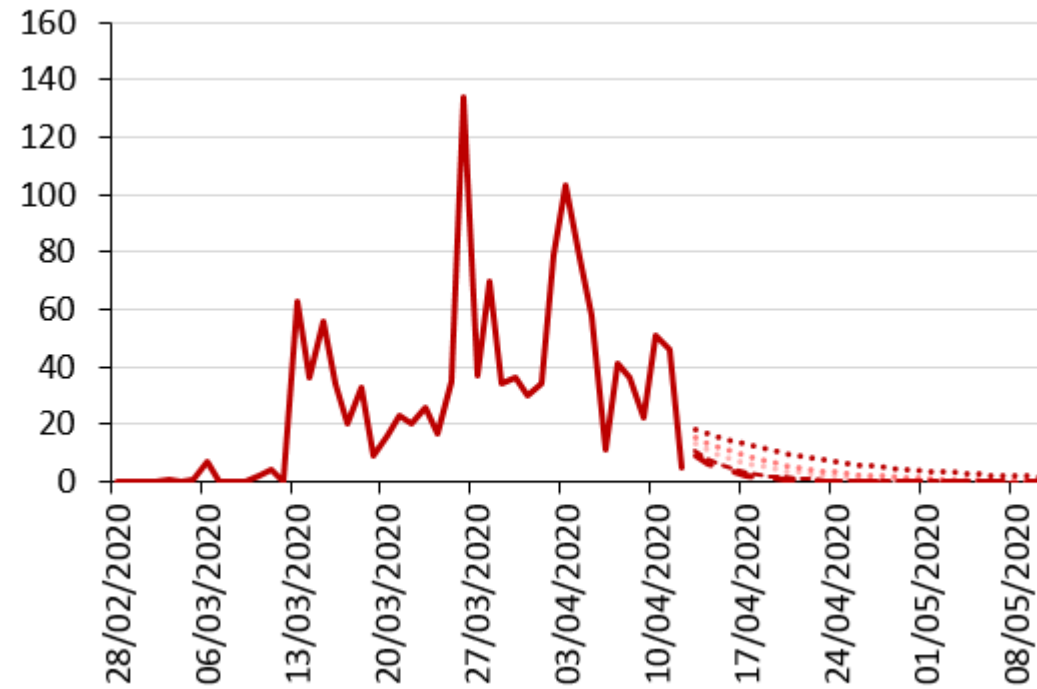
# Estonia

— CONFIRMED    ····· 9 days' fit    ····· 8 days' fit    ····· 7 days' fit    - - - - 6 days' fit    - - - - 5 days' fit

### Cumulated



### Daily

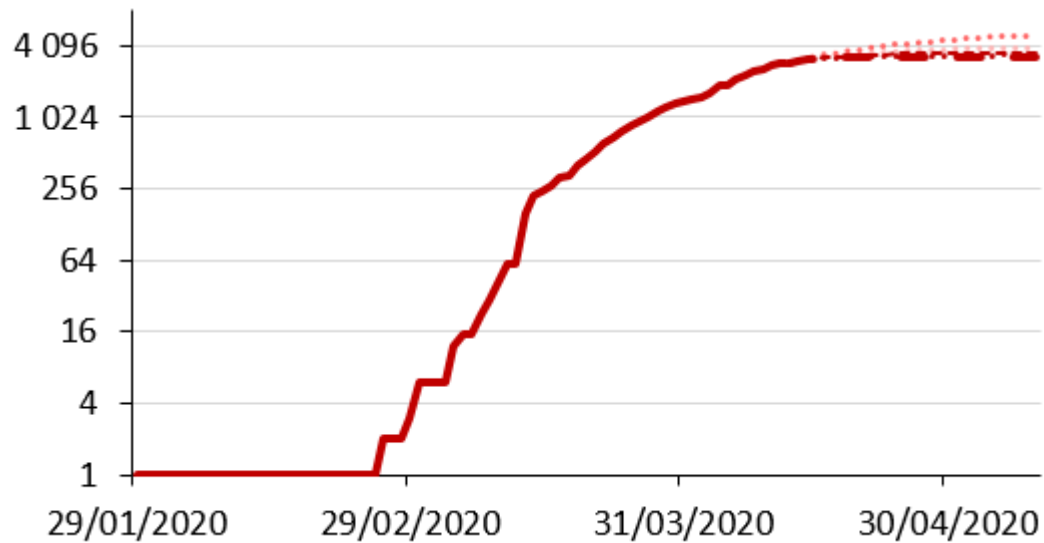


Data: The Johns Hopkins University, Politolog.com

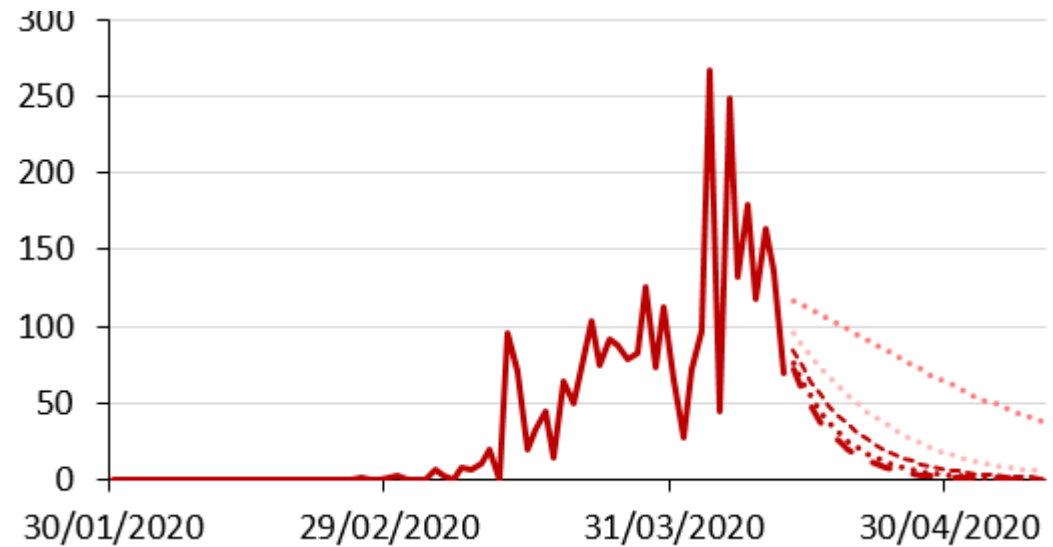
# Finland

— CONFIRMED    ····· 9 days' fit    ····· 8 days' fit    ····· 7 days' fit    - - - 6 days' fit    - - - 5 days' fit

## Cumulated



## Daily

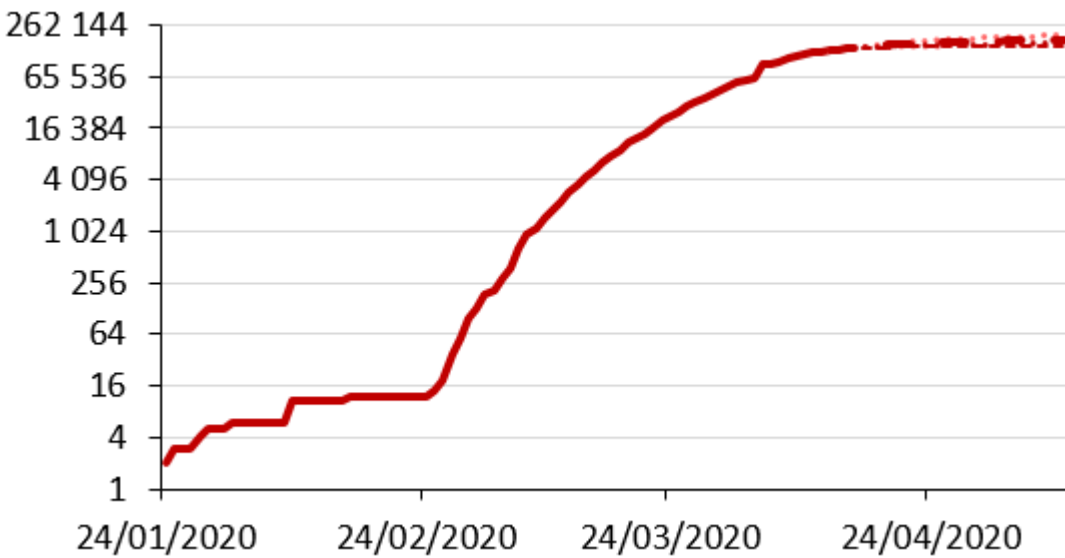


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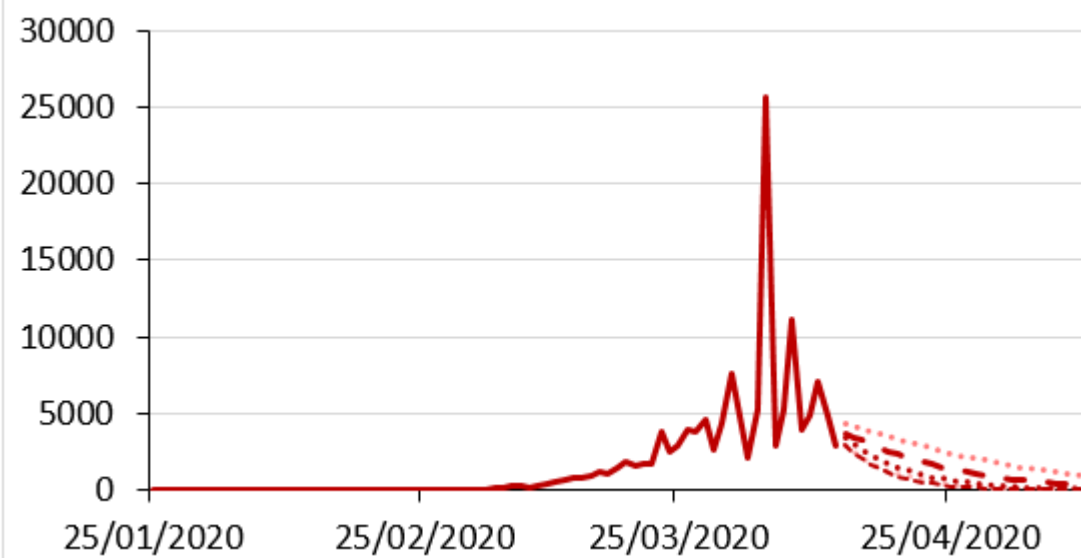
# France

CONFIRMED 9 days'fit 8 days'fit 7 days'fit 6 days'fit 5 days'fit

## Cumulated



## Daily

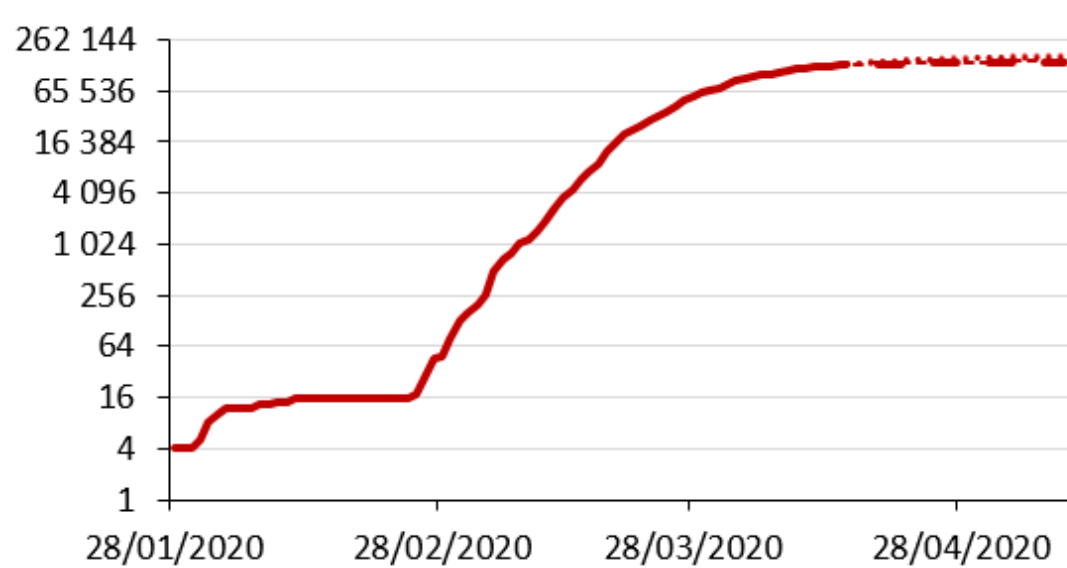


Data: The Johns Hopkins University, Politolog.com

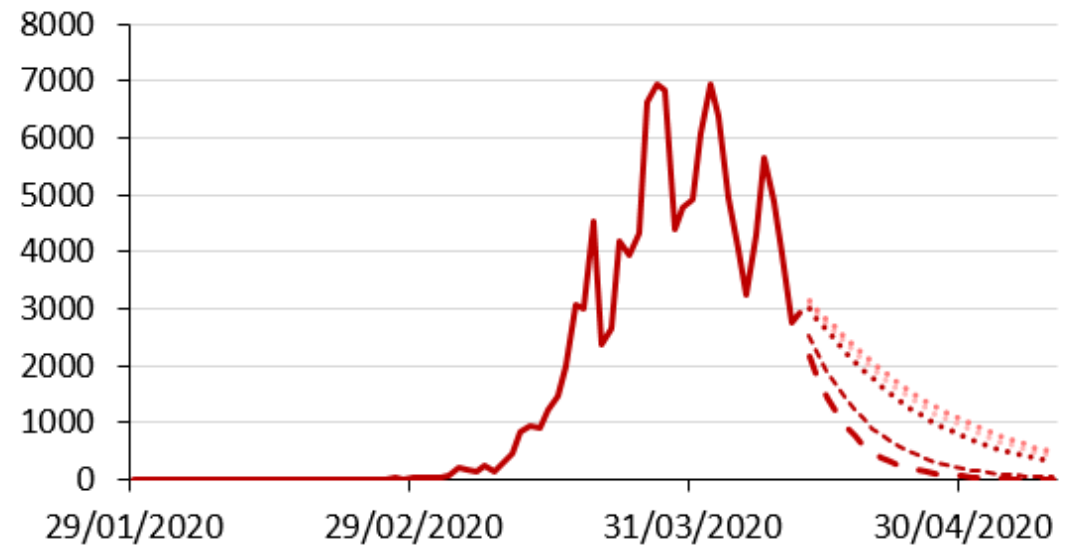
# Germany

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

## Cumulated



## Daily



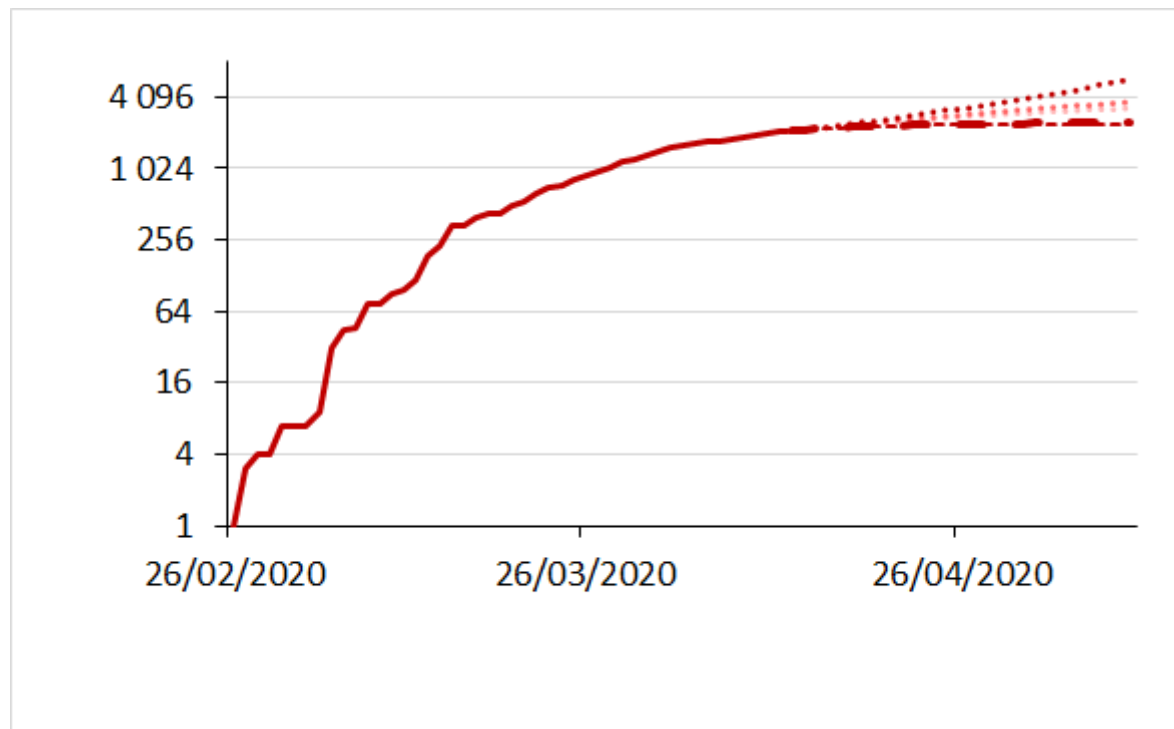
Data: The Johns Hopkins University, Politolog.com



# Greece

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated

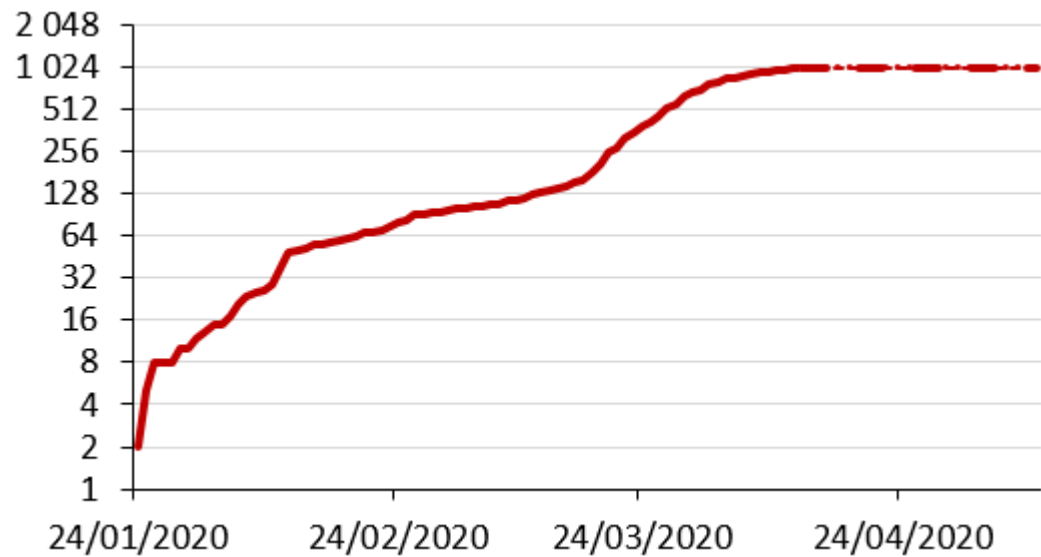


Data: The Johns Hopkins University, Politolog.com

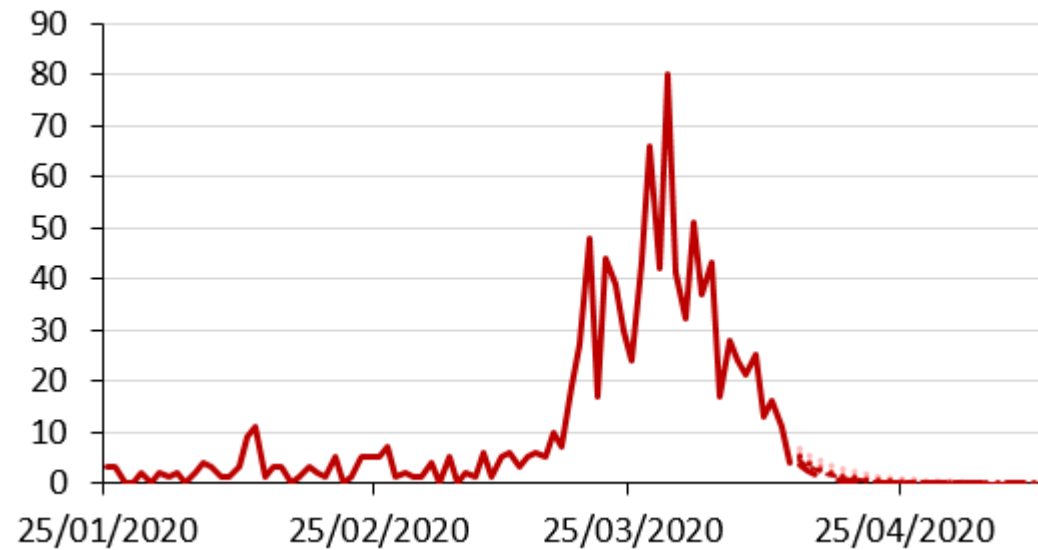
# Hong Kong

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated



## Daily

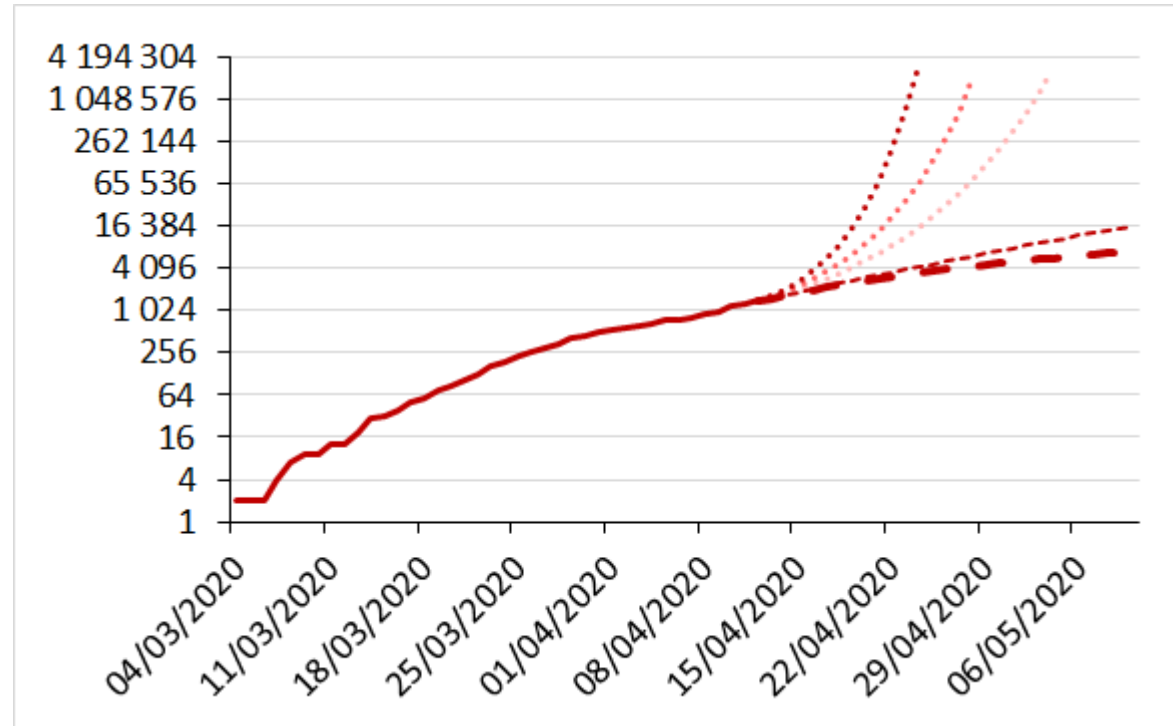


Data: The Johns Hopkins University, Politolog.com

# Hungary

— CONFIRMED    ····· 9 days'fit    ····· 8 days'fit    ····· 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

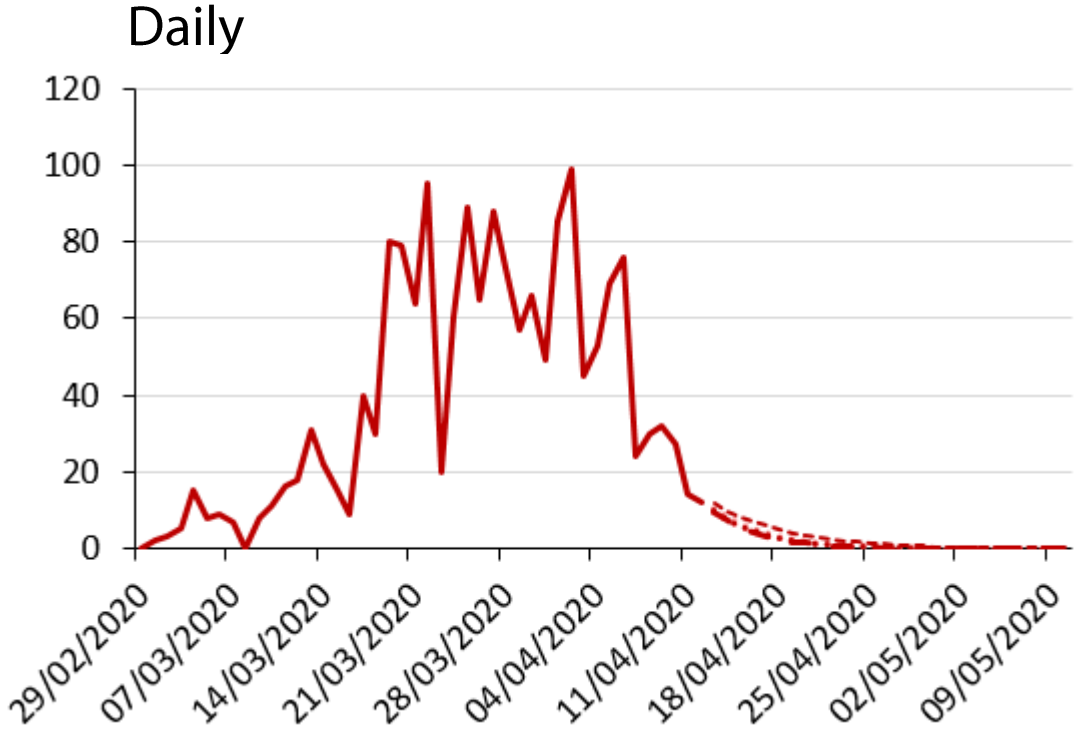
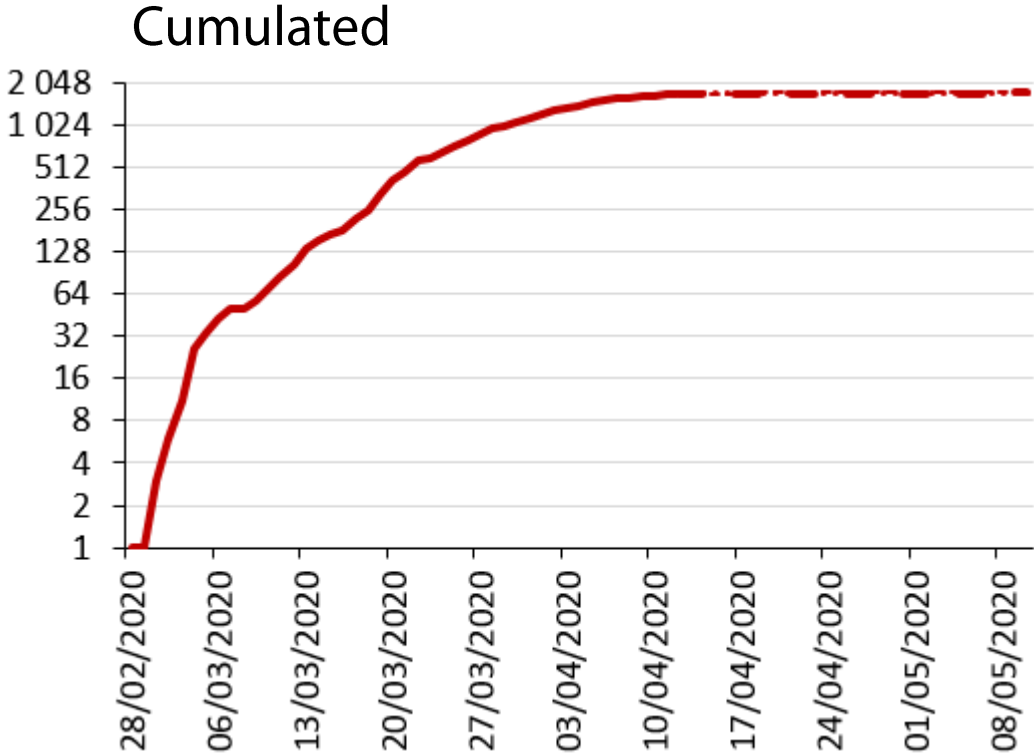
Cumulated



Data: The Johns Hopkins University, Politolog.com

# Iceland

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

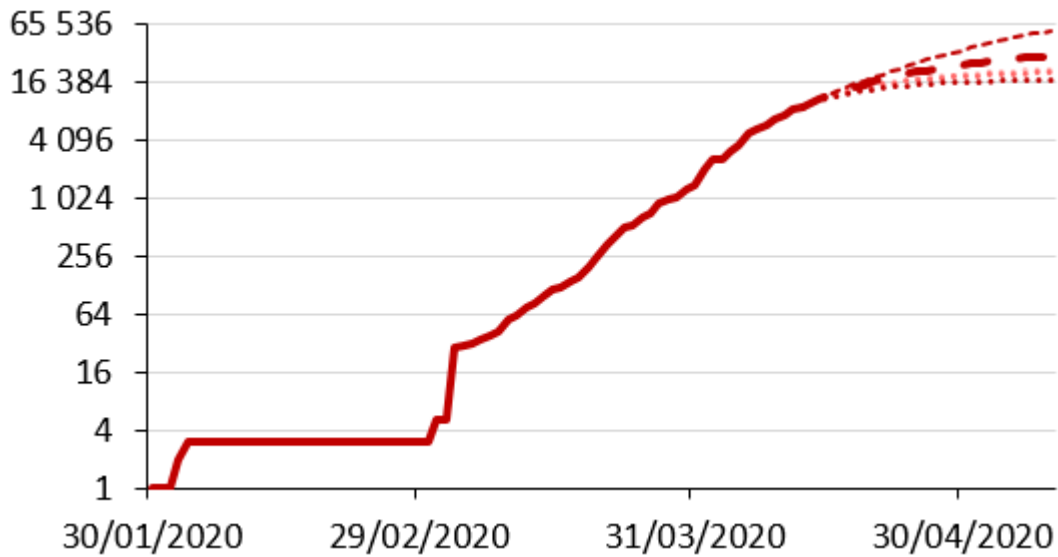


Data: The Johns Hopkins University, Politolog.com

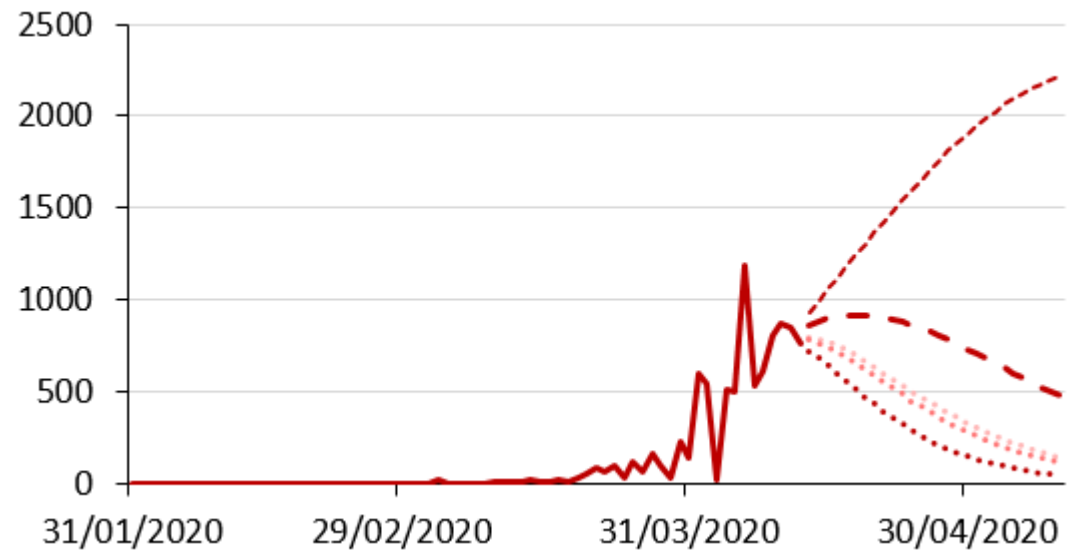
# India

CONFIRMED 9 days'fit 8 days'fit 7 days'fit 6 days'fit 5 days'fit

### Cumulated



### Daily

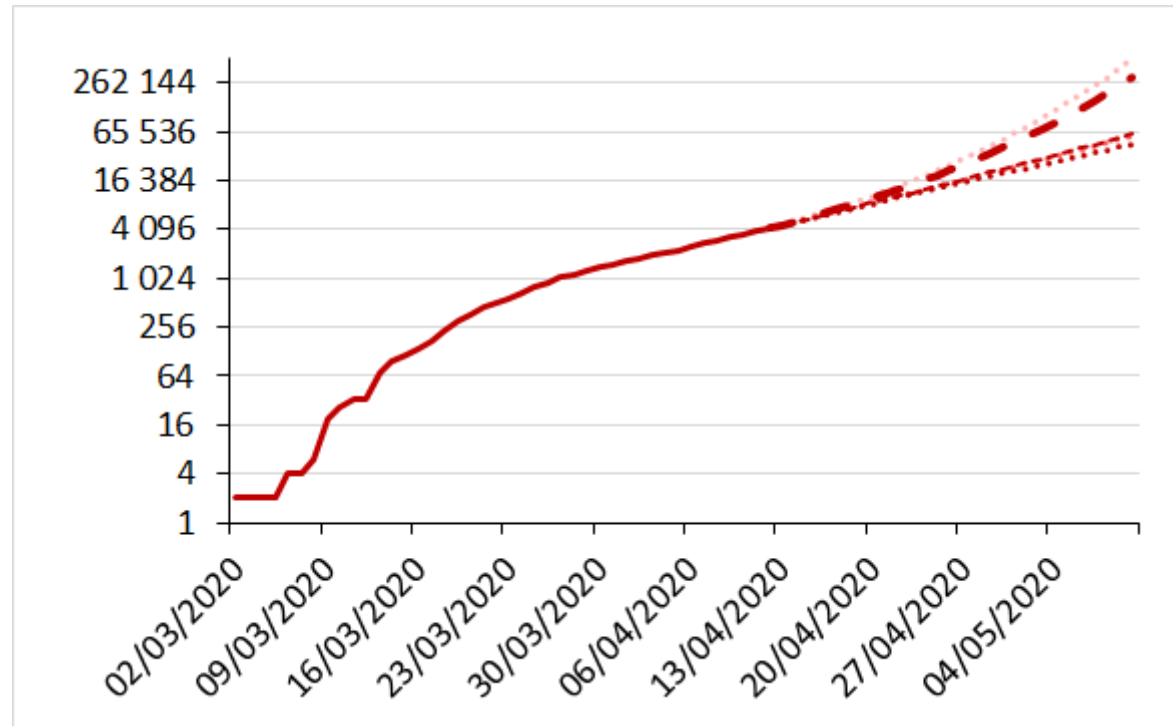


Data: The Johns Hopkins University, Politolog.com

# Indonesia

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

Cumulated

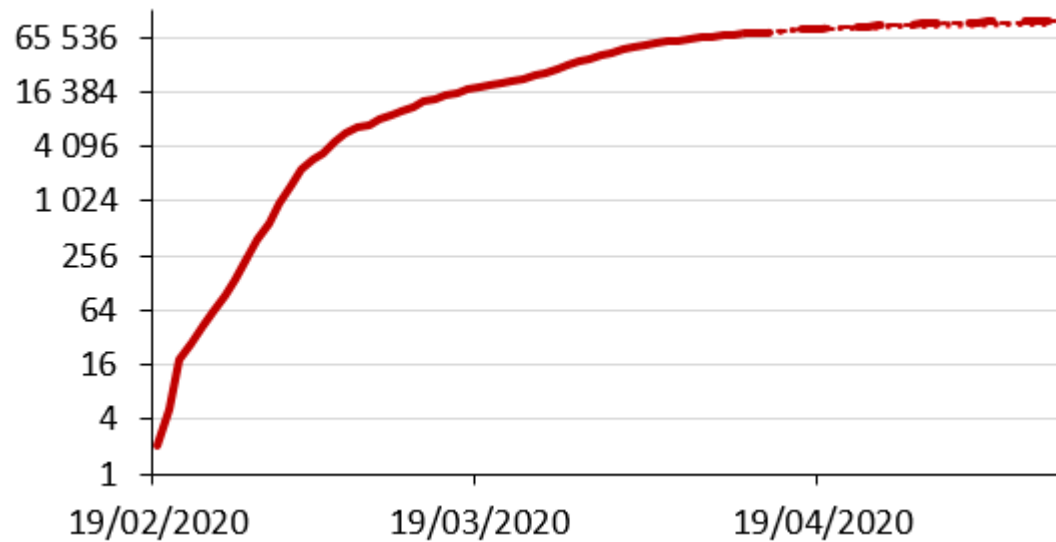


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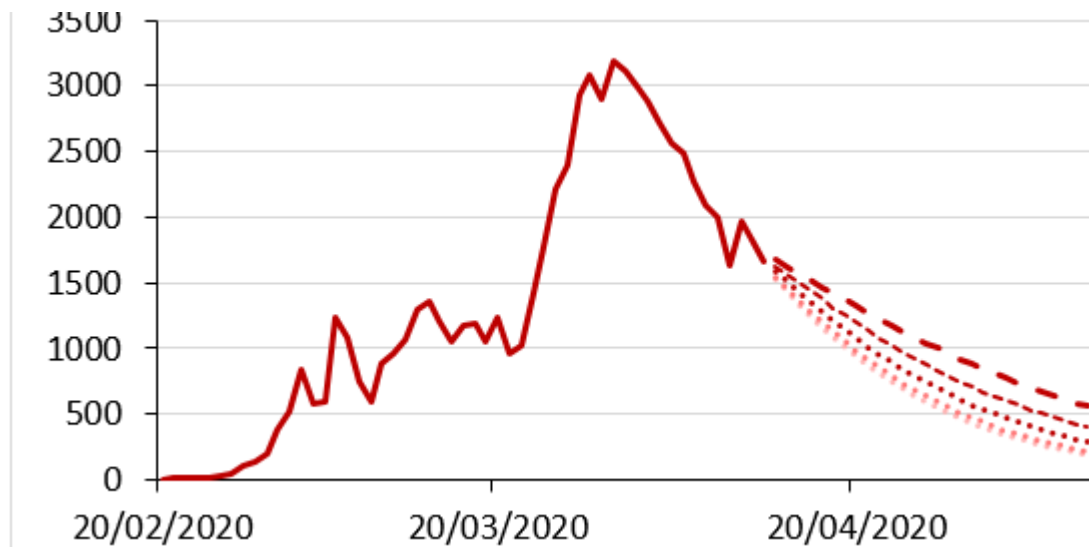
# Iran

— CONFIRMED    ····· 9 days'fit    ····· 8 days'fit    ····· 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

### Cumulated



### Daily

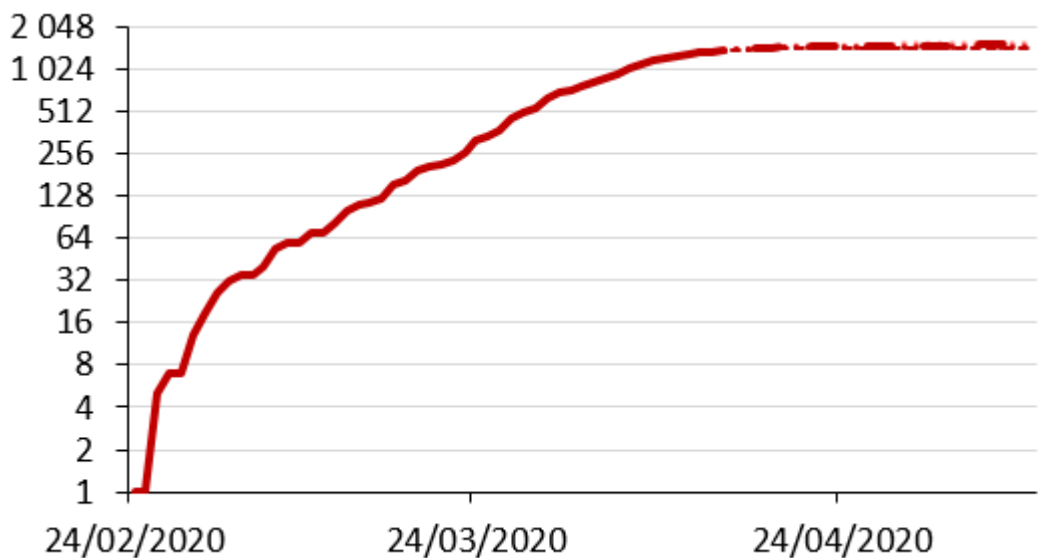


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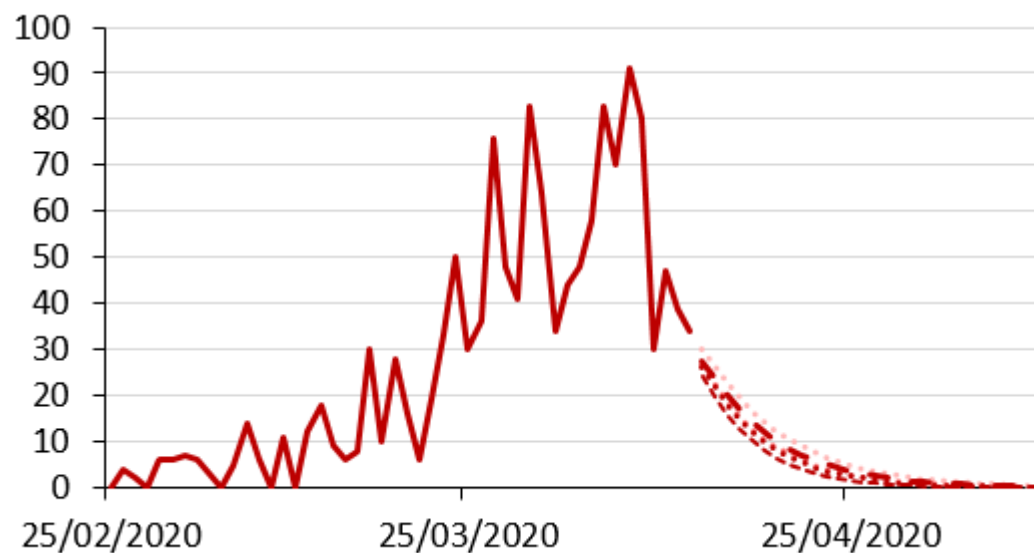
# Iraq

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

## Cumulated



## Daily



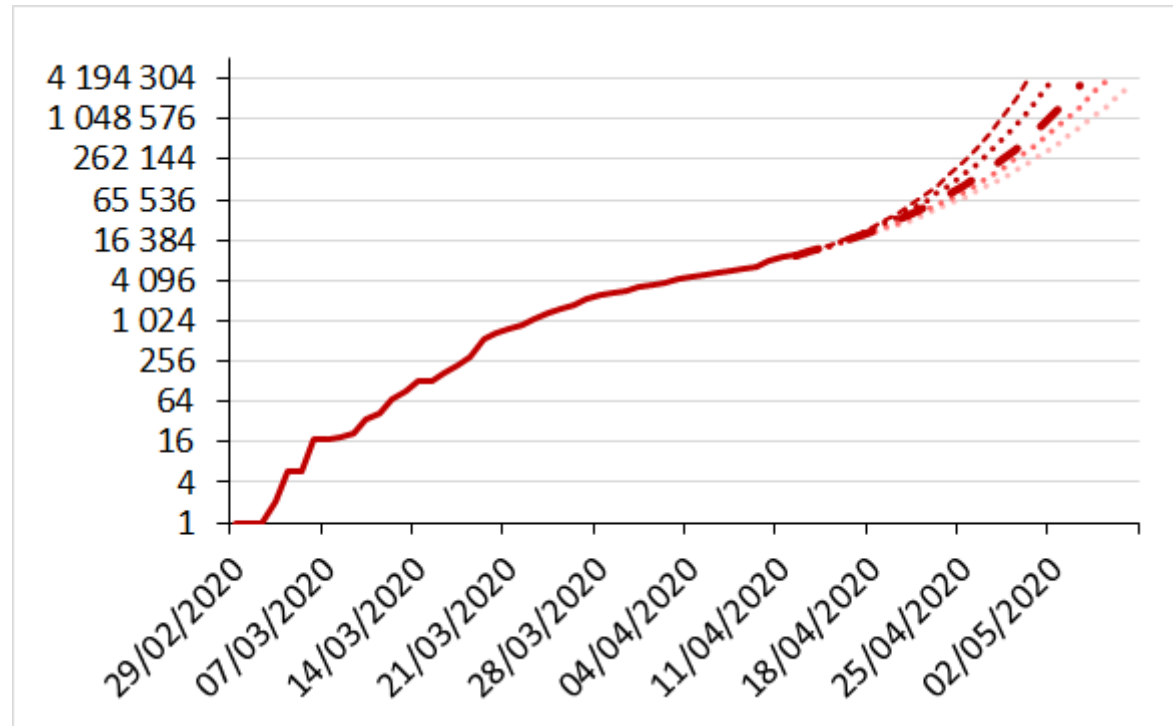
Data: The Johns Hopkins University, Politolog.com



# Ireland

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated

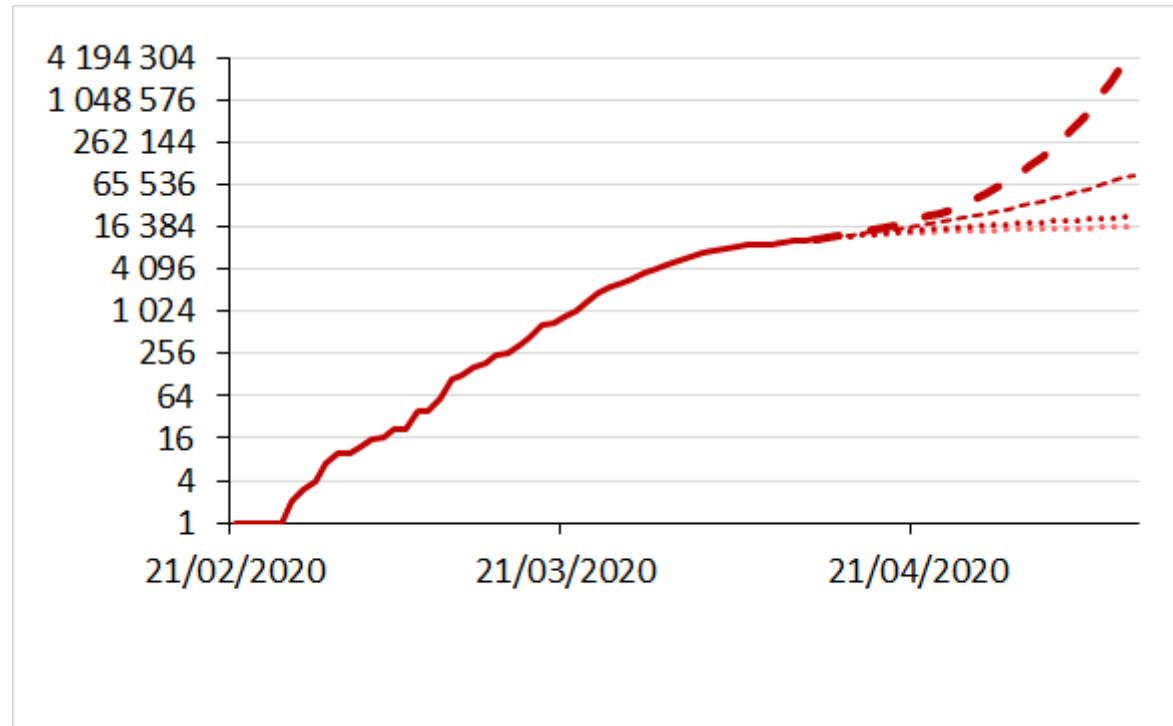


Data: The Johns Hopkins University, Politolog.com

# Israel

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

## Cumulated

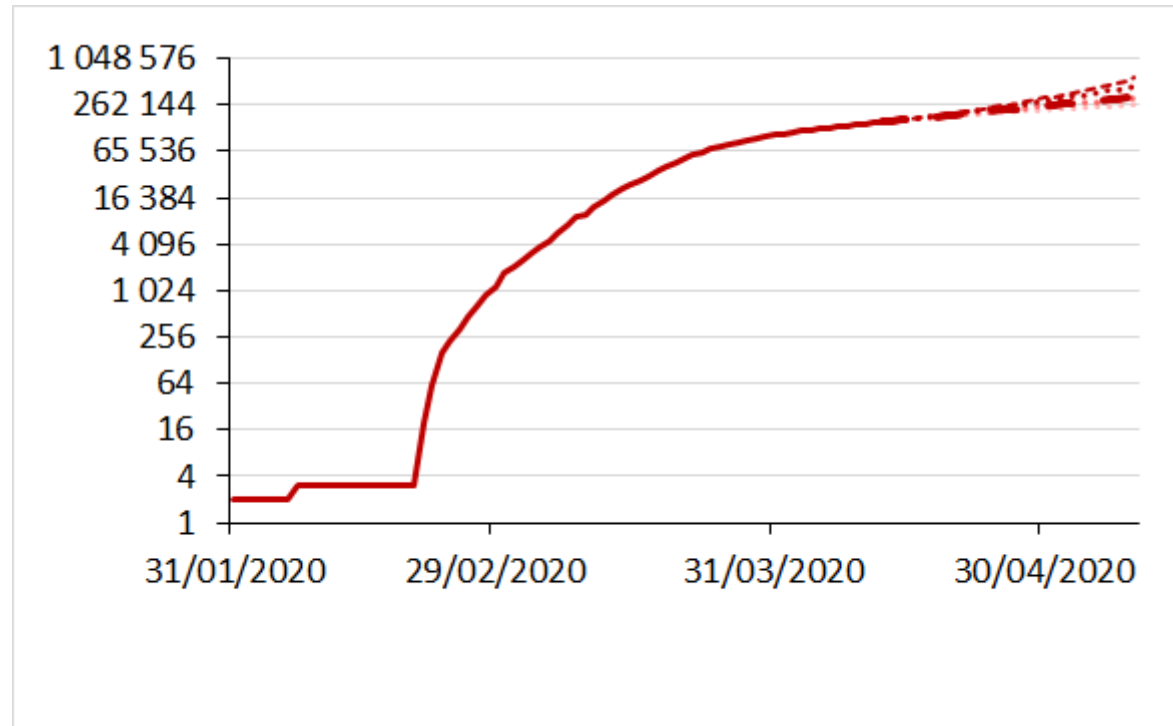


Data: The Johns Hopkins University, Politolog.com

# Italy

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

## Cumulated

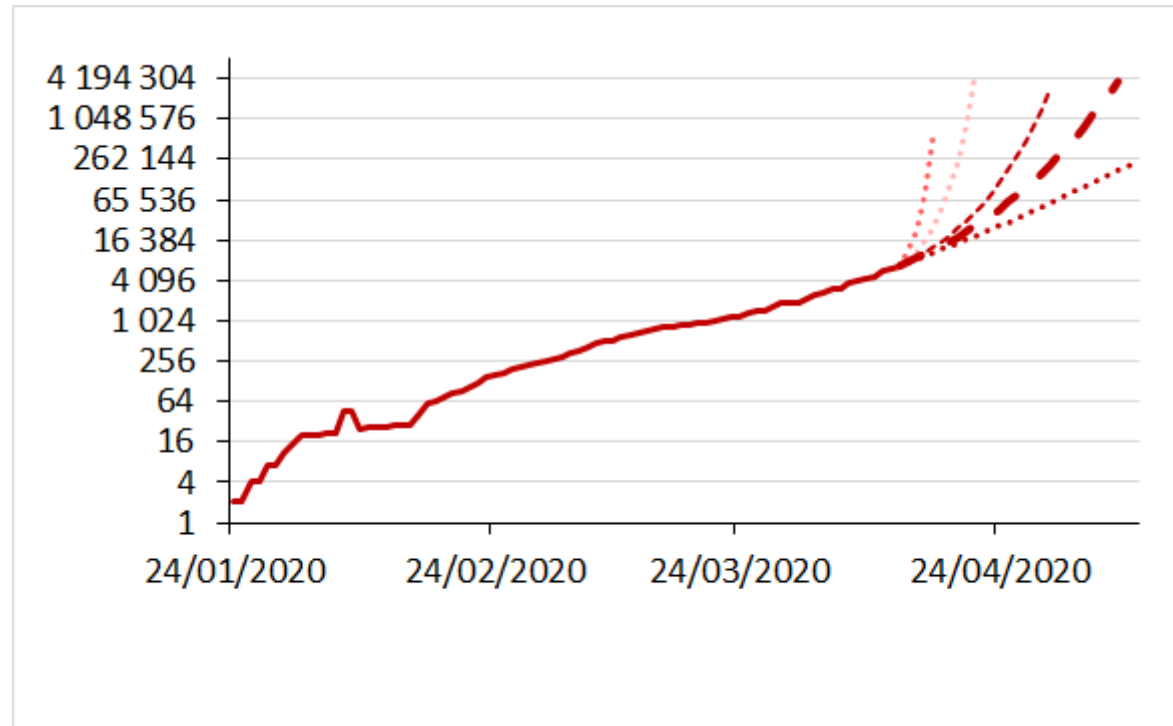


Data: The Johns Hopkins University, Politolog.com

# Japan

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated

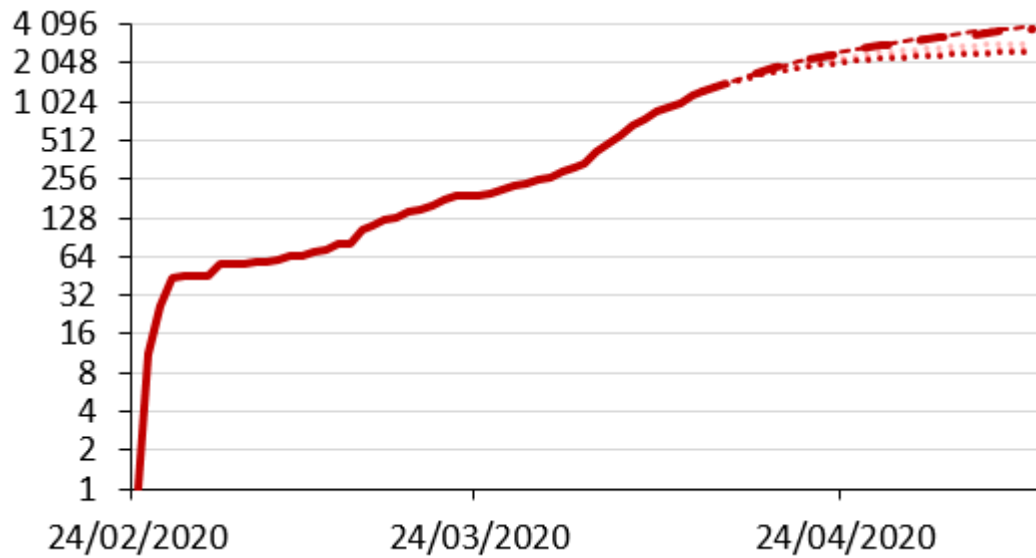


Data: The Johns Hopkins University, Politolog.com

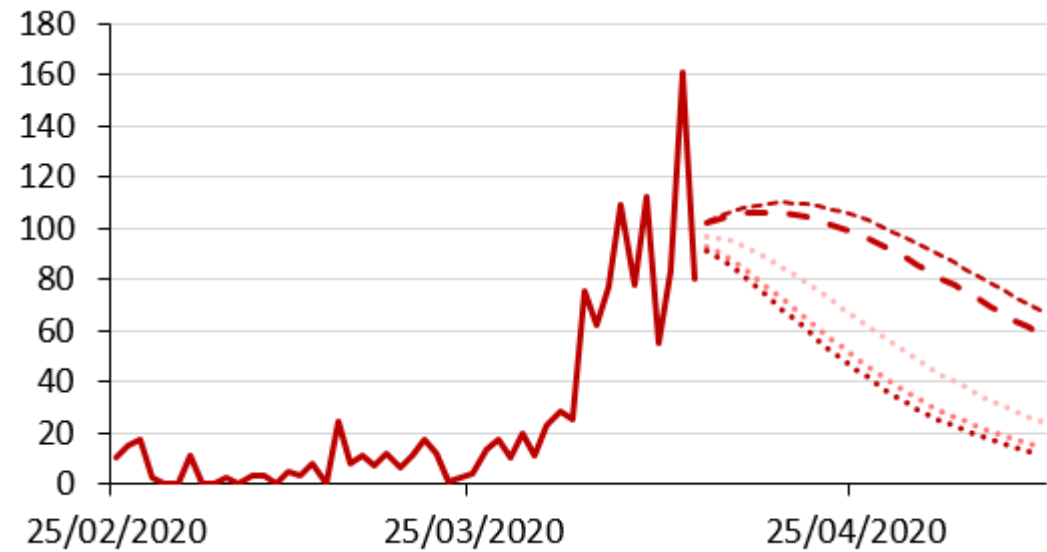
# Kuwait

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated



## Daily

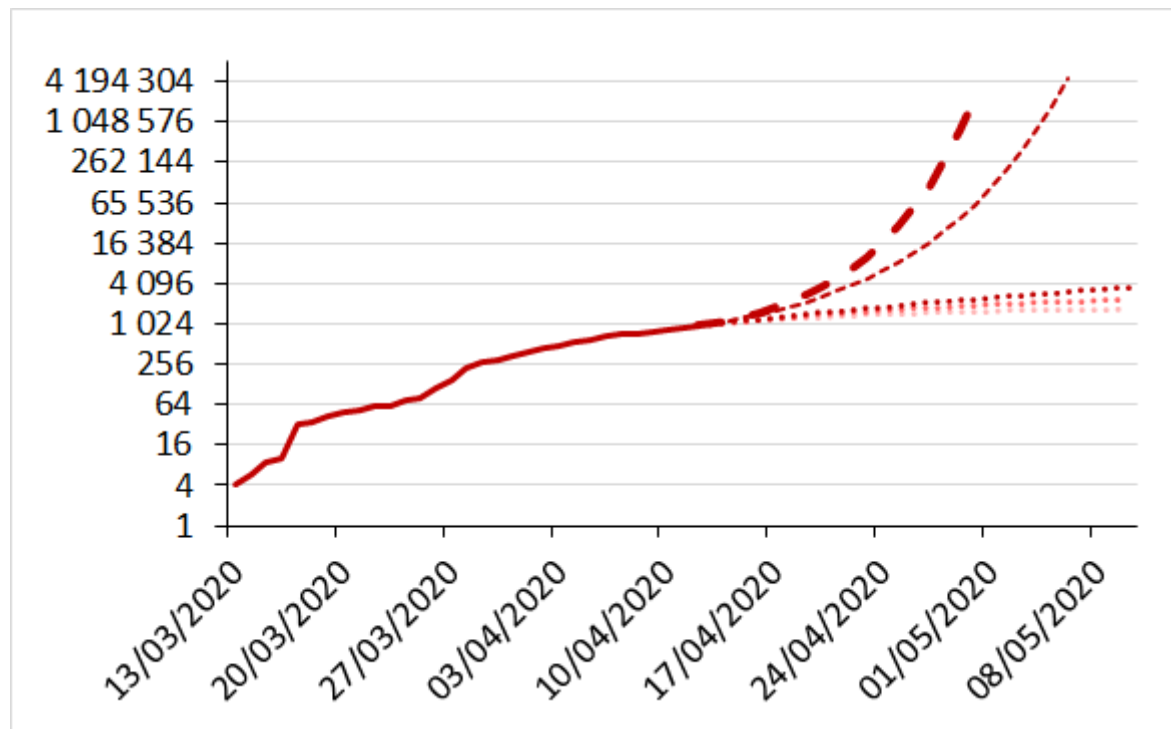


Data: The Johns Hopkins University, Politolog.com

# Kazakhstan

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

Cumulated

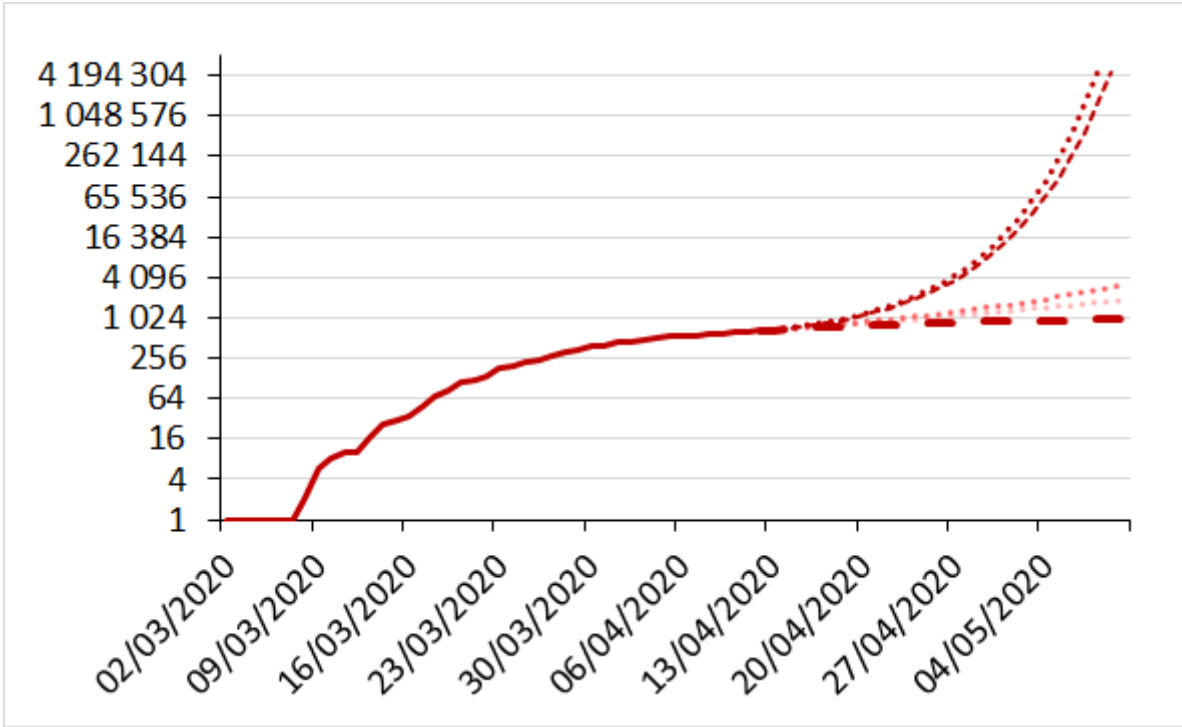


Data: The Johns Hopkins University, Politolog.com

# Latvia

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

## Cumulated

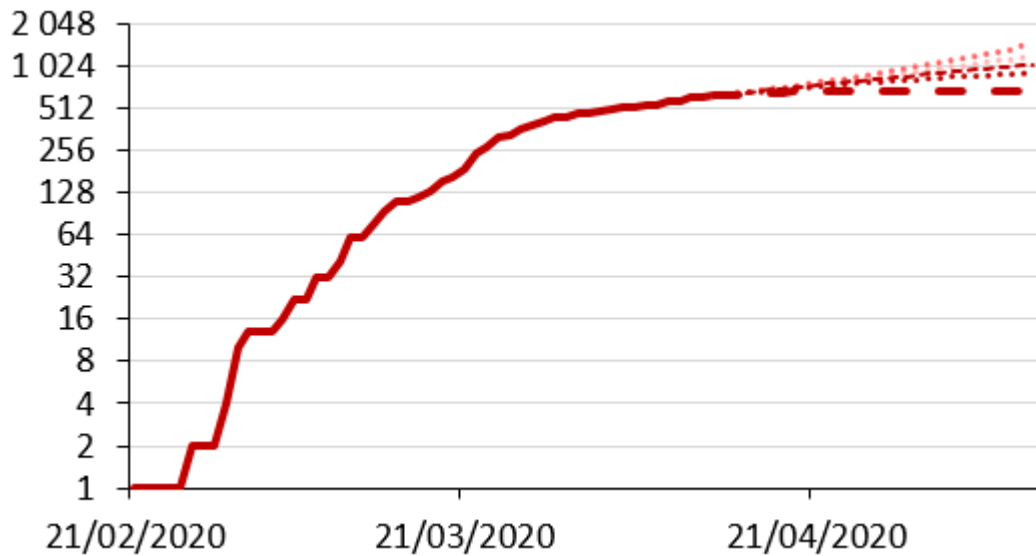


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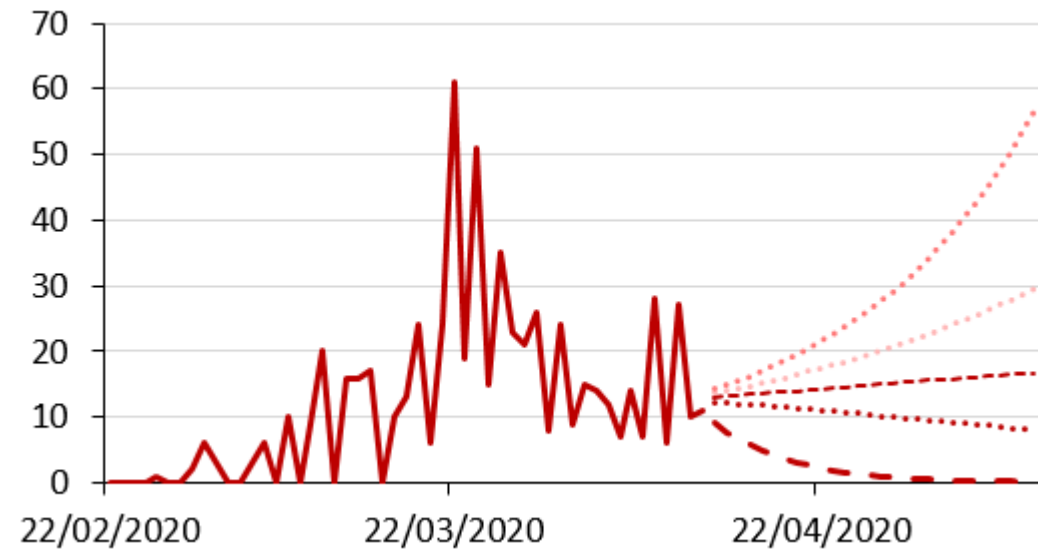
# Lebanon

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated



## Daily



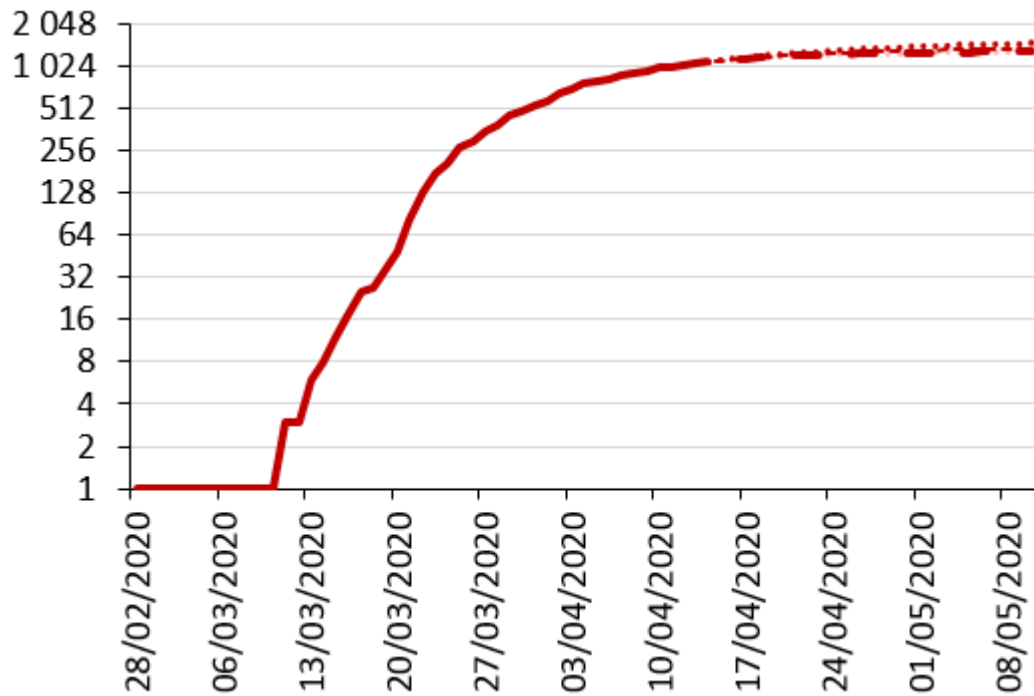
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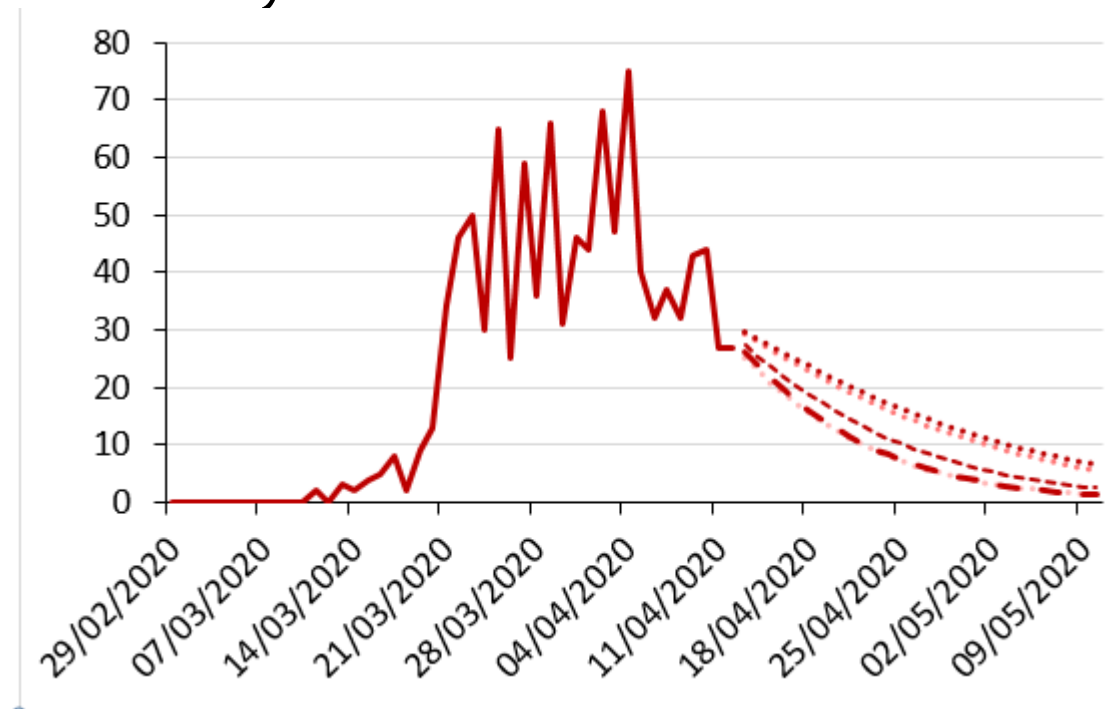
# Lithuania

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

### Cumulated



### Daily

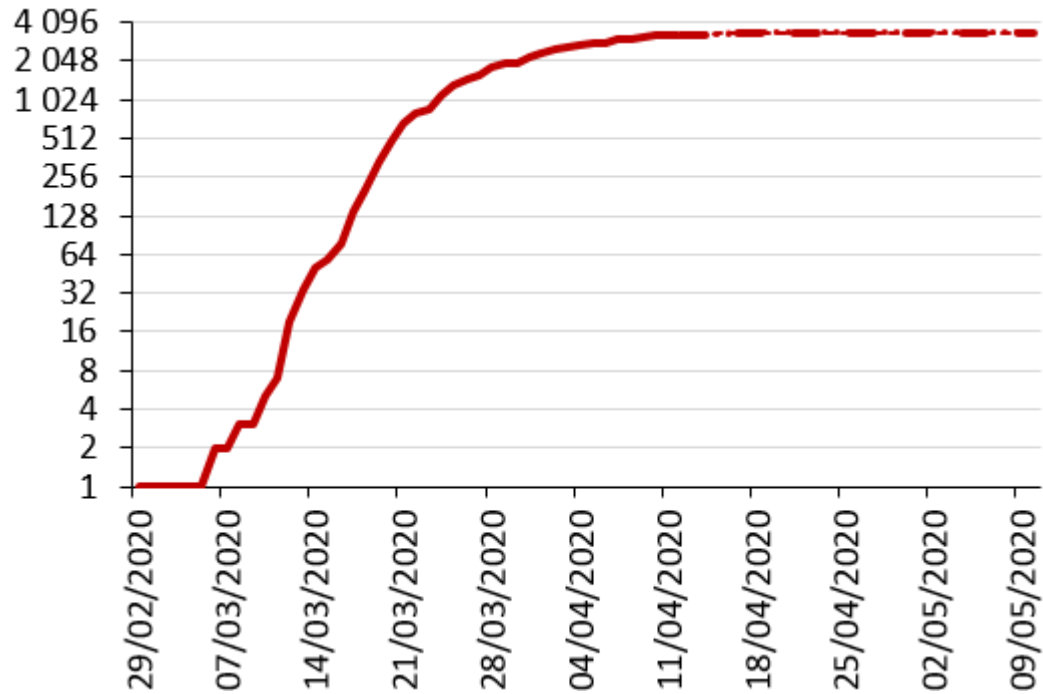


Data: The Johns Hopkins University, Politolog.com

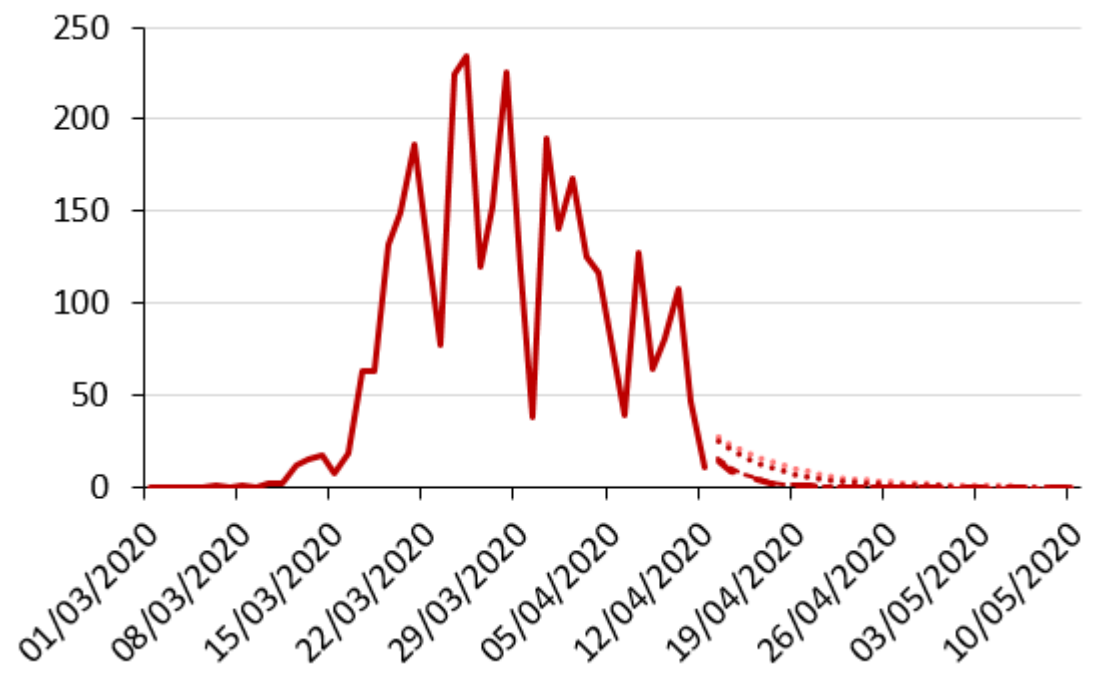
# Luxembourg

— CONFIRMED    ····· 9 days'fit    ····· 8 days'fit    ····· 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

### Cumulated



### Daily

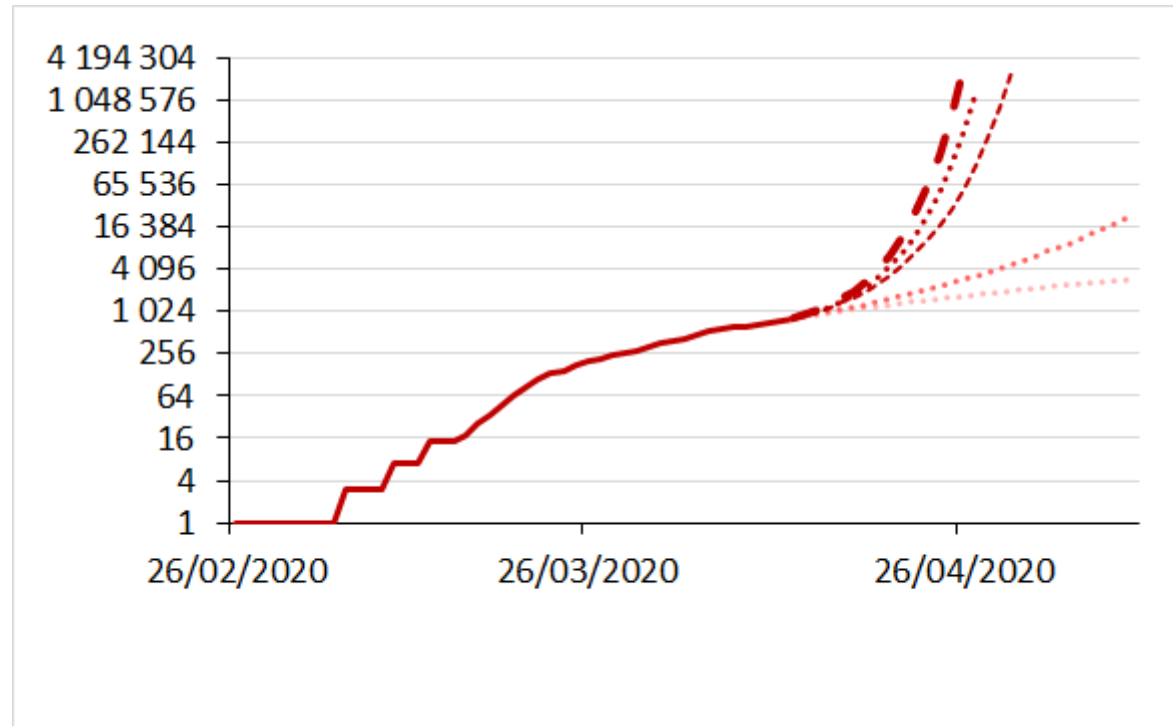


Data: The Johns Hopkins University, Politolog.com

# Macedonia

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated

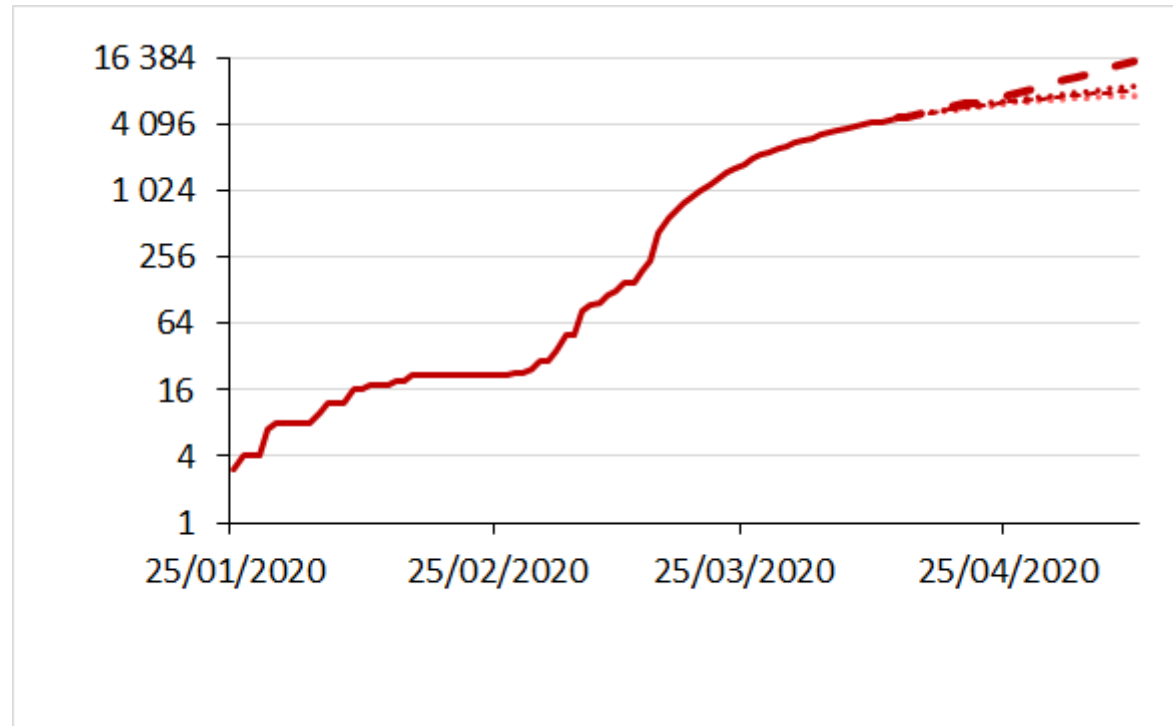


Data: The Johns Hopkins University, Politolog.com

# Malaysia

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated

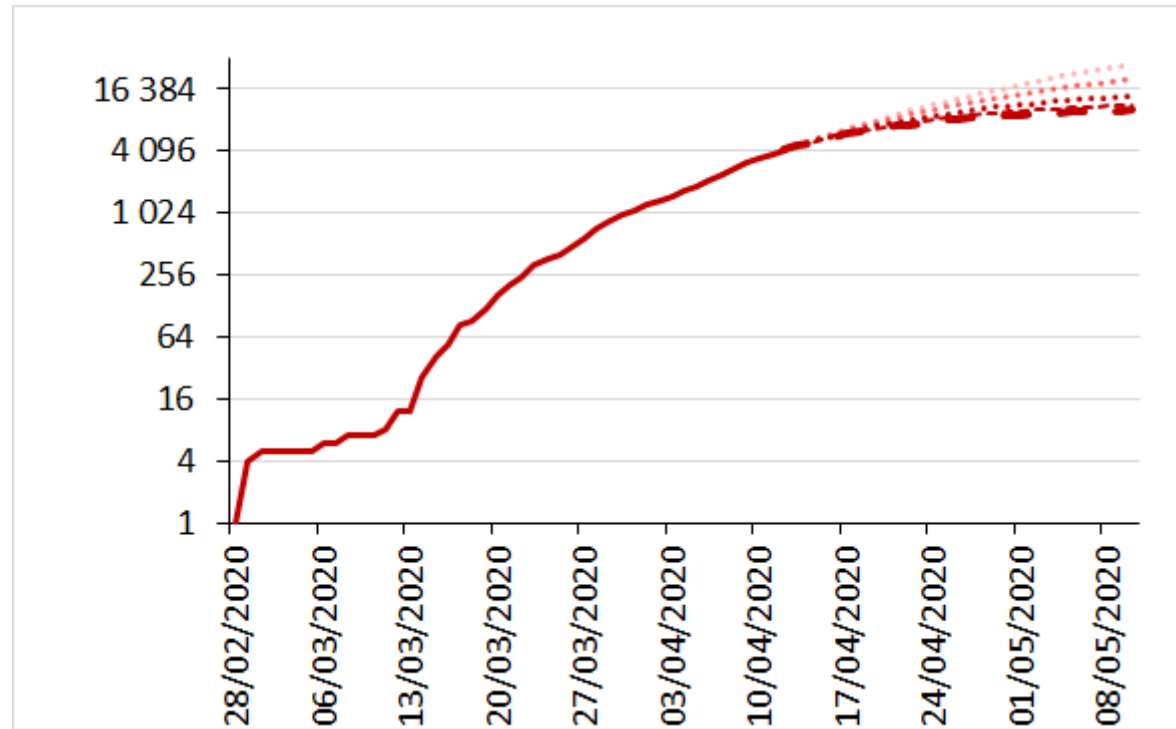


Data: The Johns Hopkins University, Politolog.com

# Mexico

— CONFIRMED    ····· 9 days' fit    ····· 8 days' fit    ····· 7 days' fit    - - - - 6 days' fit    - - - - 5 days' fit

Cumulated

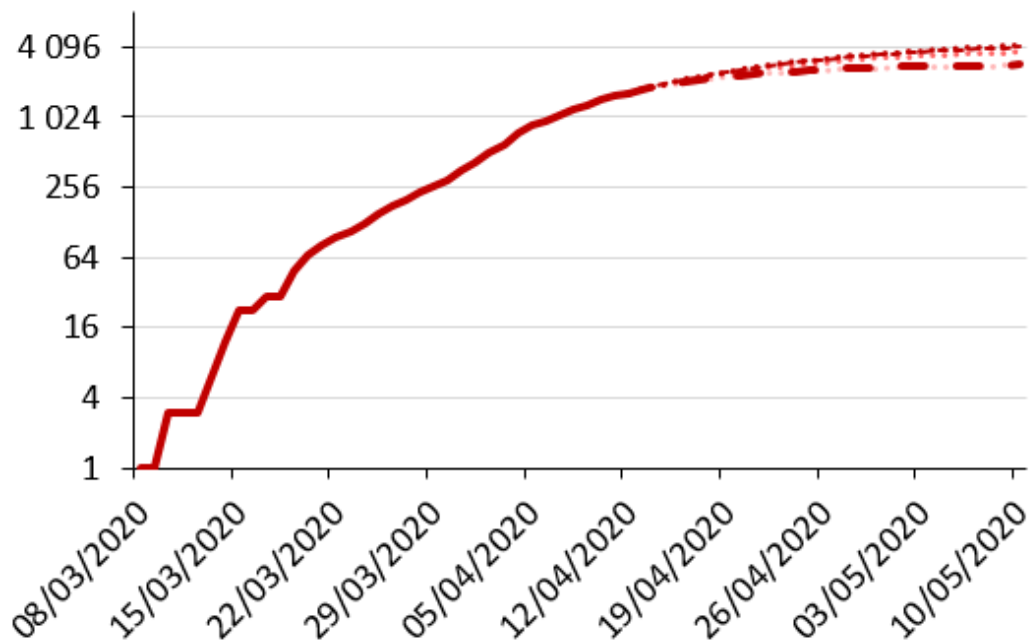


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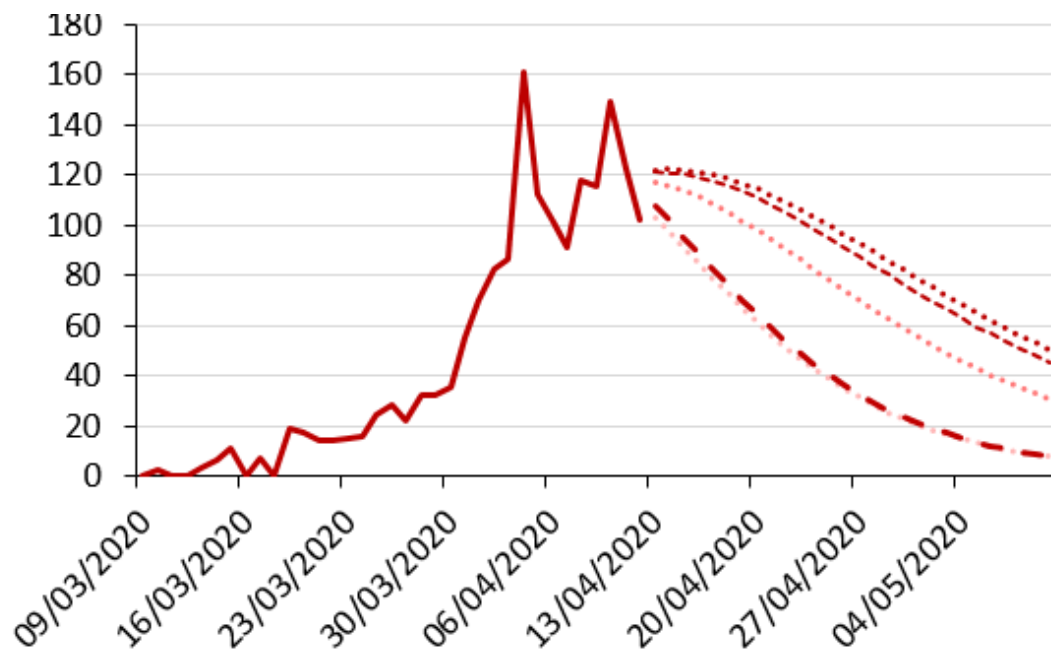
# Moldova

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

### Cumulated



### Daily

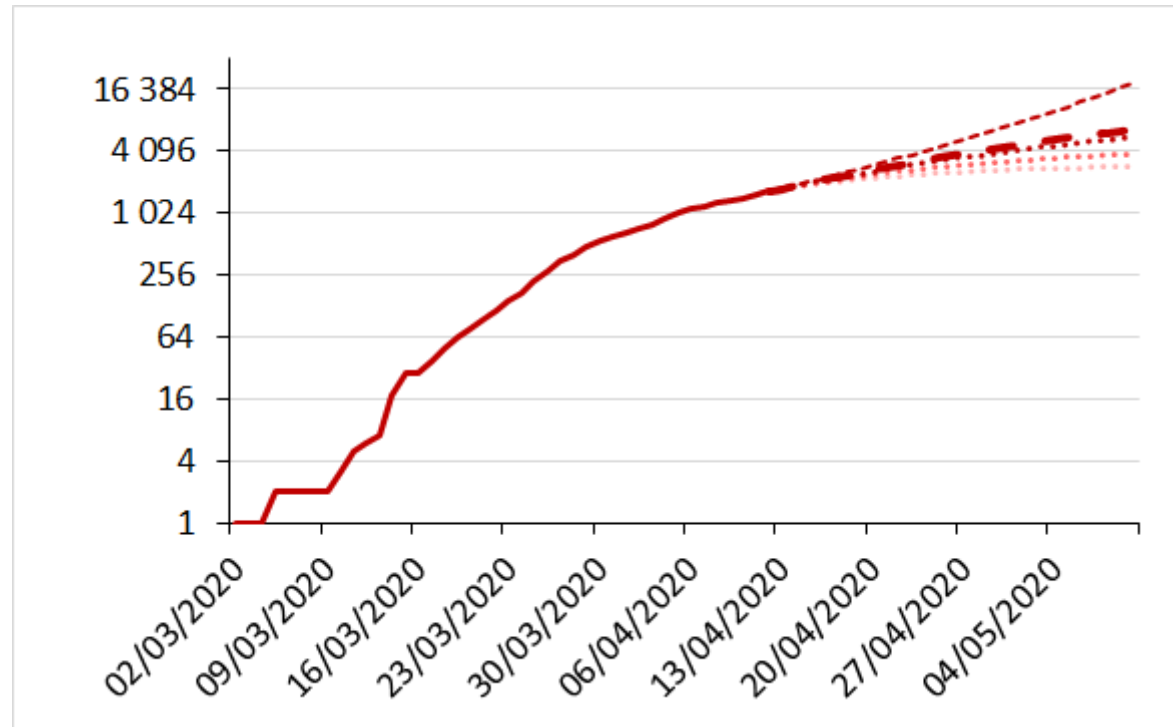


Data: The Johns Hopkins University, Politolog.com

# Morocco

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated

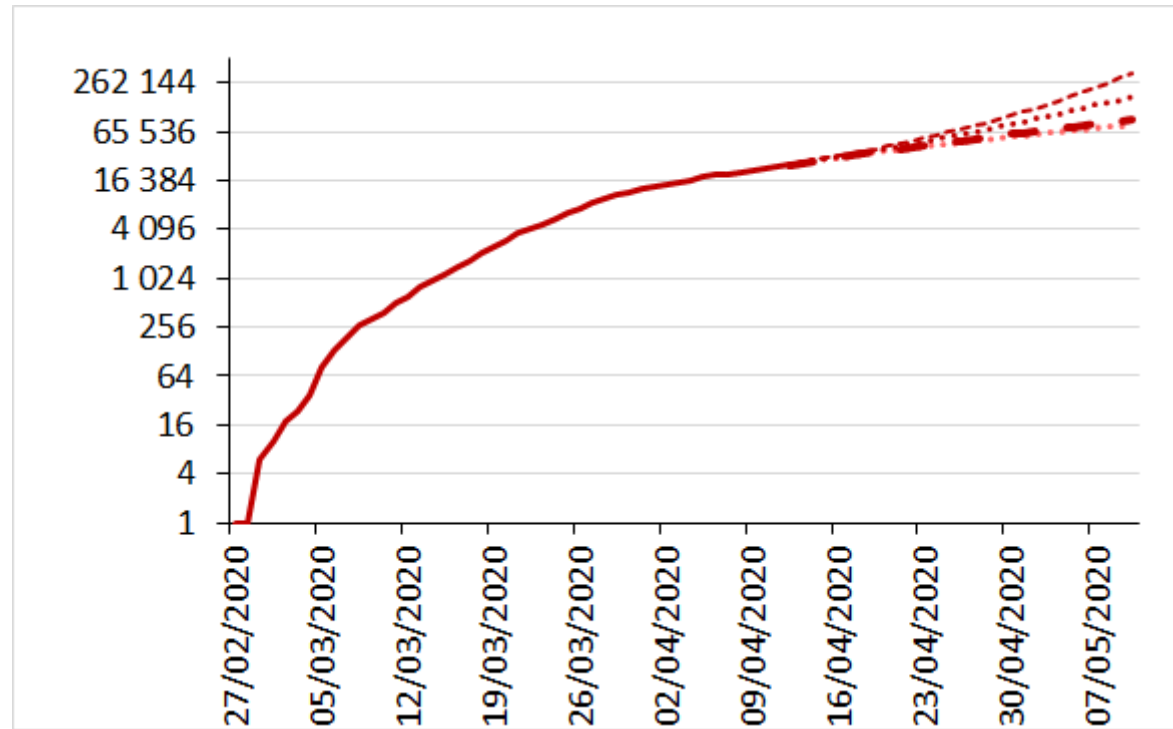


Data: The Johns Hopkins University, Politolog.com

# Netherlands

— CONFIRMED    ····· 9 days'fit    ····· 8 days'fit    ····· 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

Cumulated



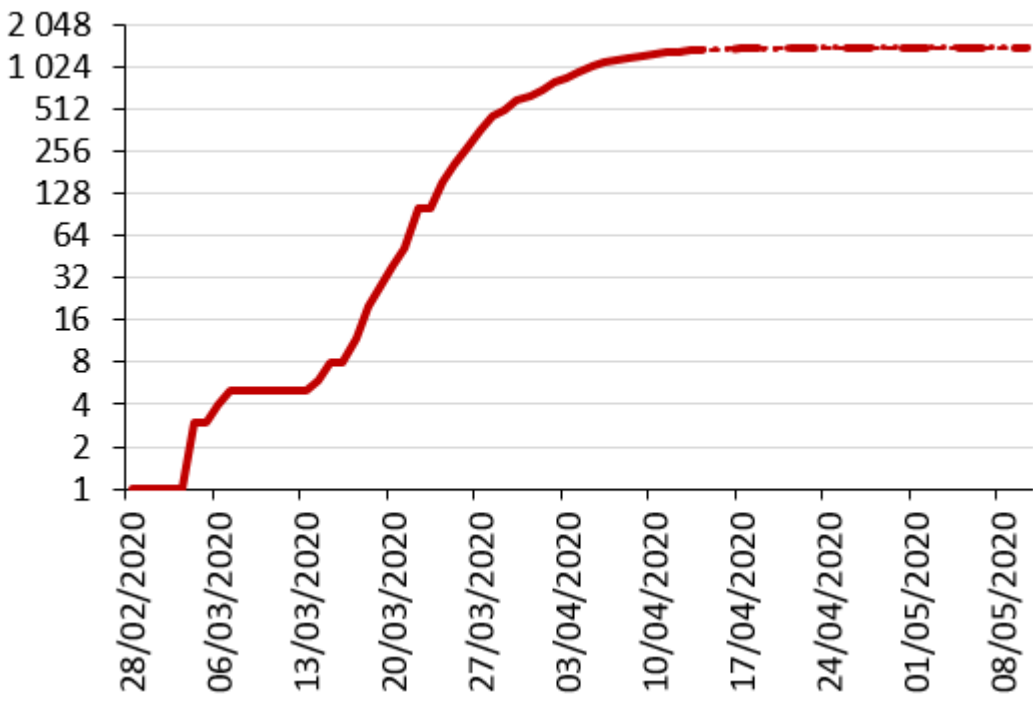
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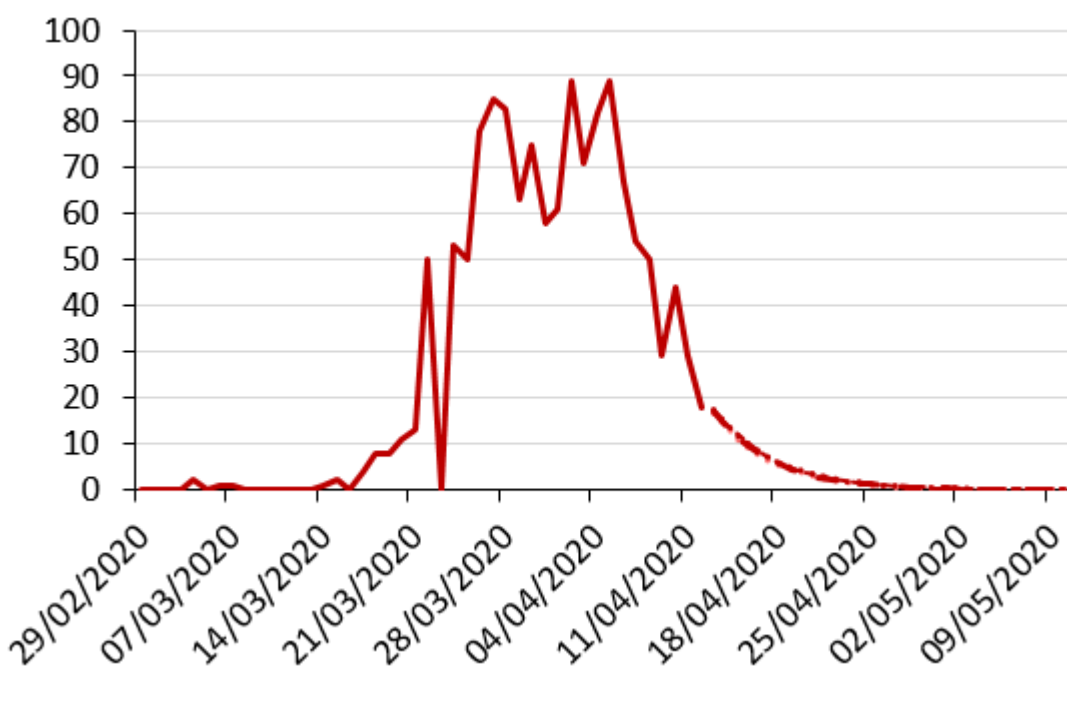
# New Zealand

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

### Cumulated



### Daily

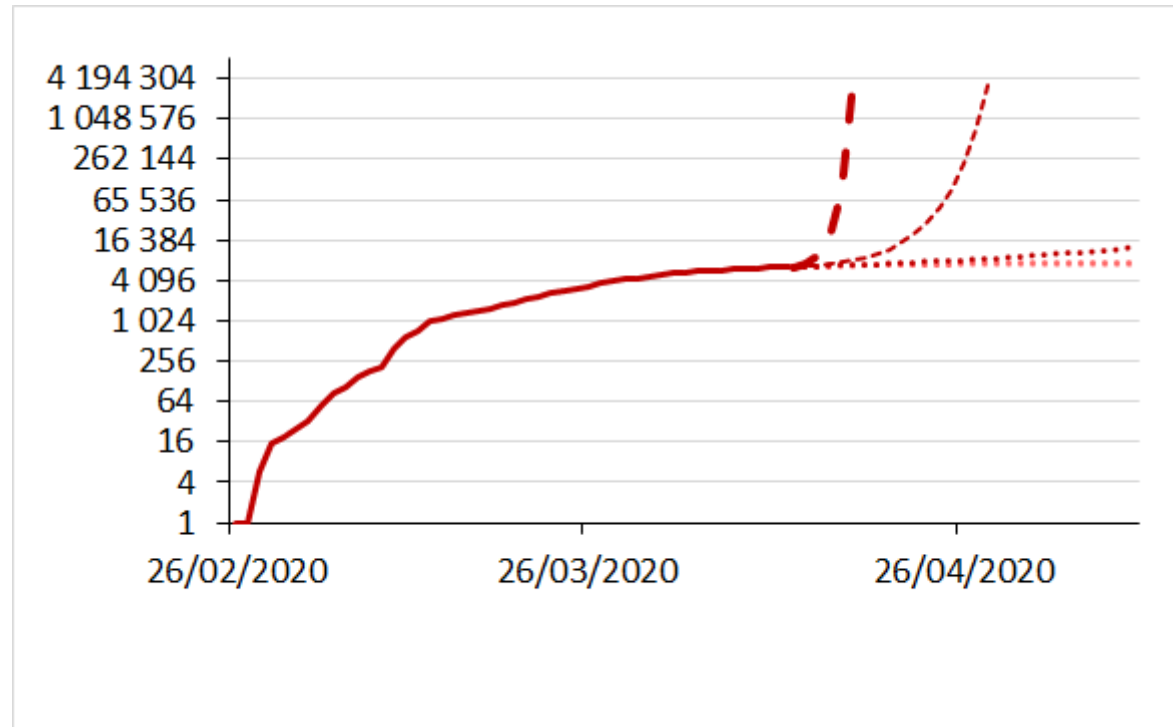


Data: The Johns Hopkins University, Politolog.com

# Norway

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

## Cumulated

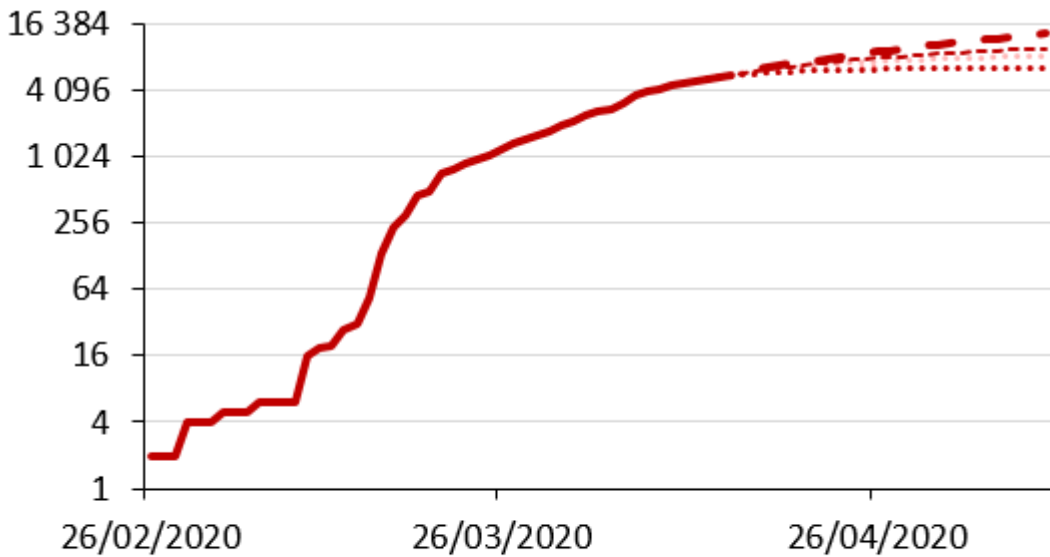


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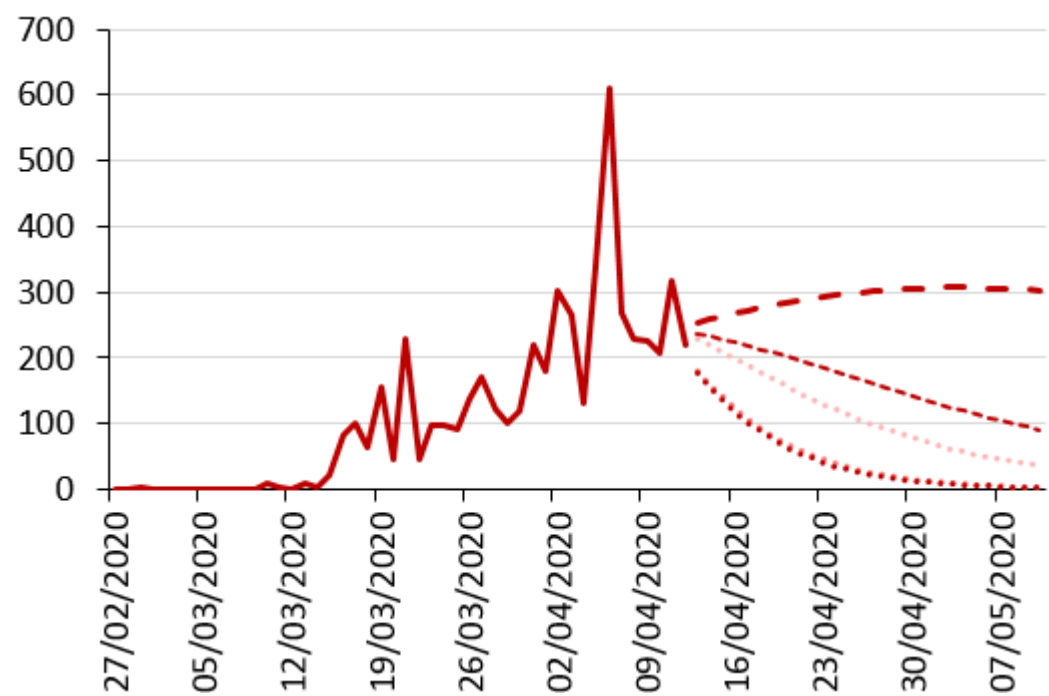
# Pakistan

CONFIRMED 9 days'fit 8 days'fit 7 days'fit 6 days'fit 5 days'fit

### Cumulated



### Daily

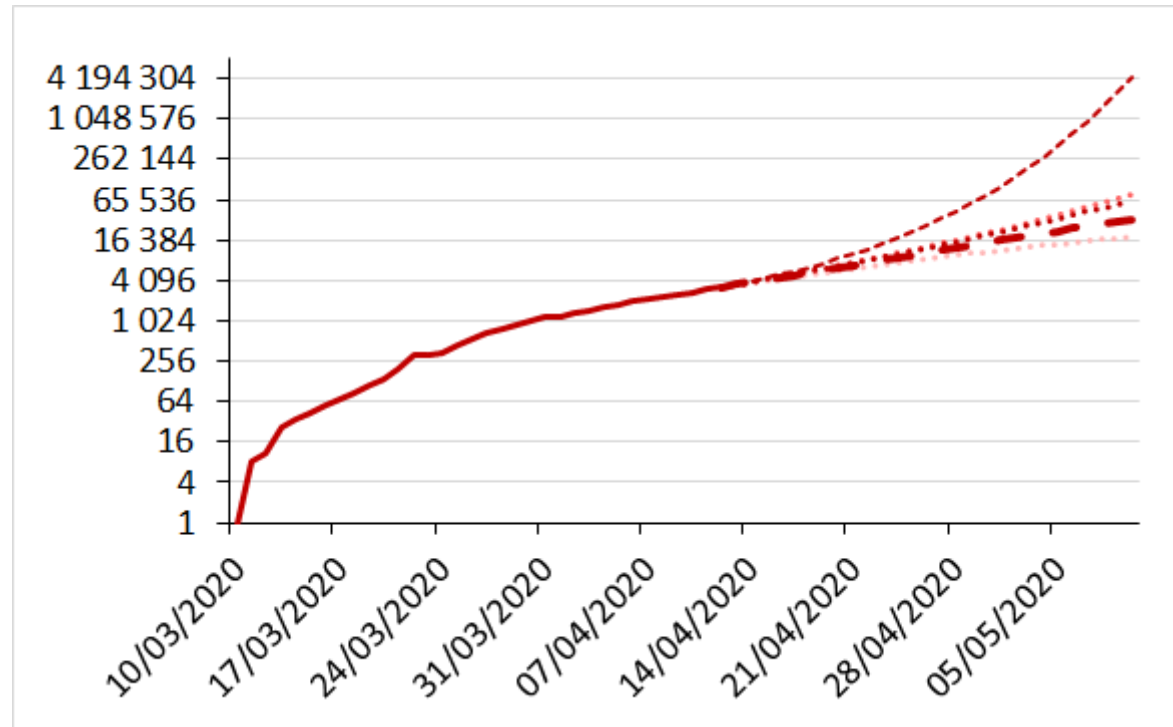


Data: The Johns Hopkins University, Politolog.com

# Panama

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated

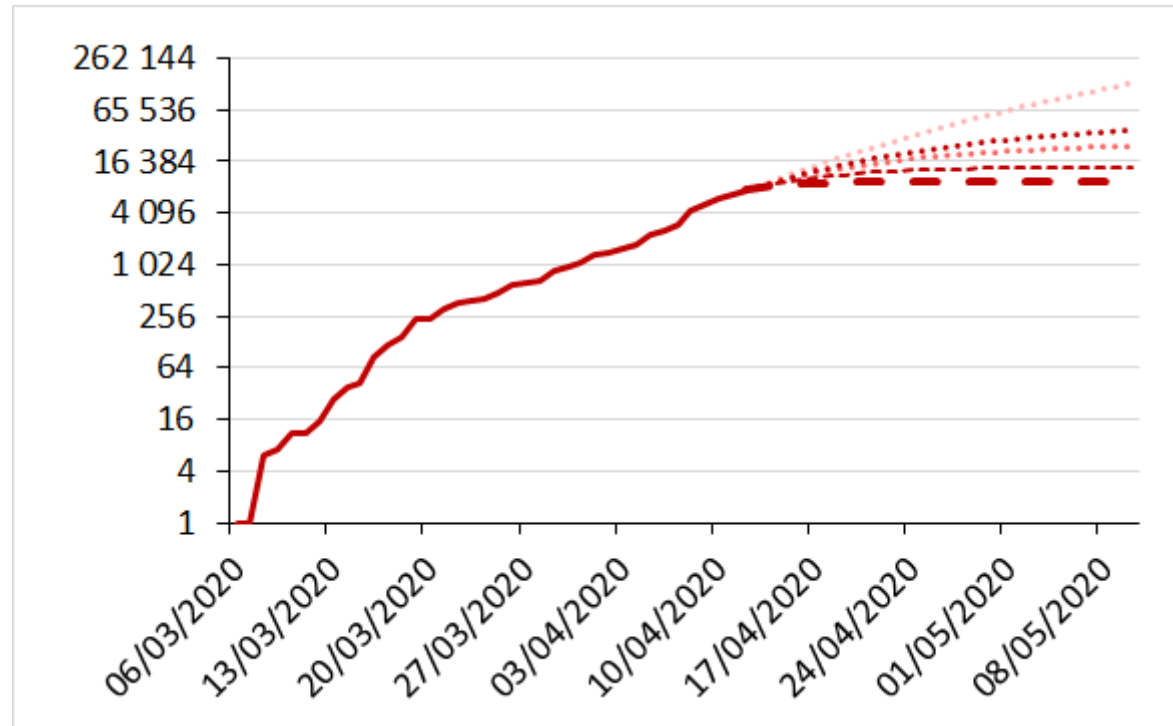


Data: The Johns Hopkins University, Politolog.com

# Peru

— CONFIRMED    ..... 9 days' fit    ..... 8 days' fit    ..... 7 days' fit    - - - 6 days' fit    - - - 5 days' fit

## Cumulated

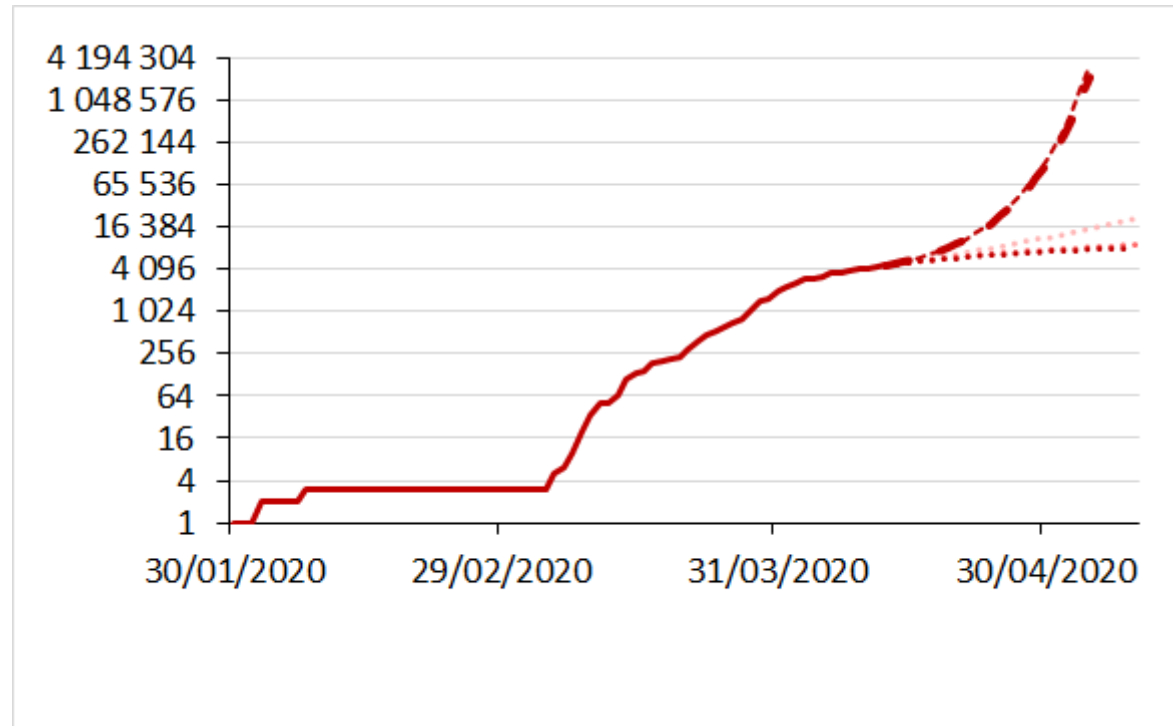


Data: The Johns Hopkins University, Politolog.com

# Philippines

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

## Cumulated

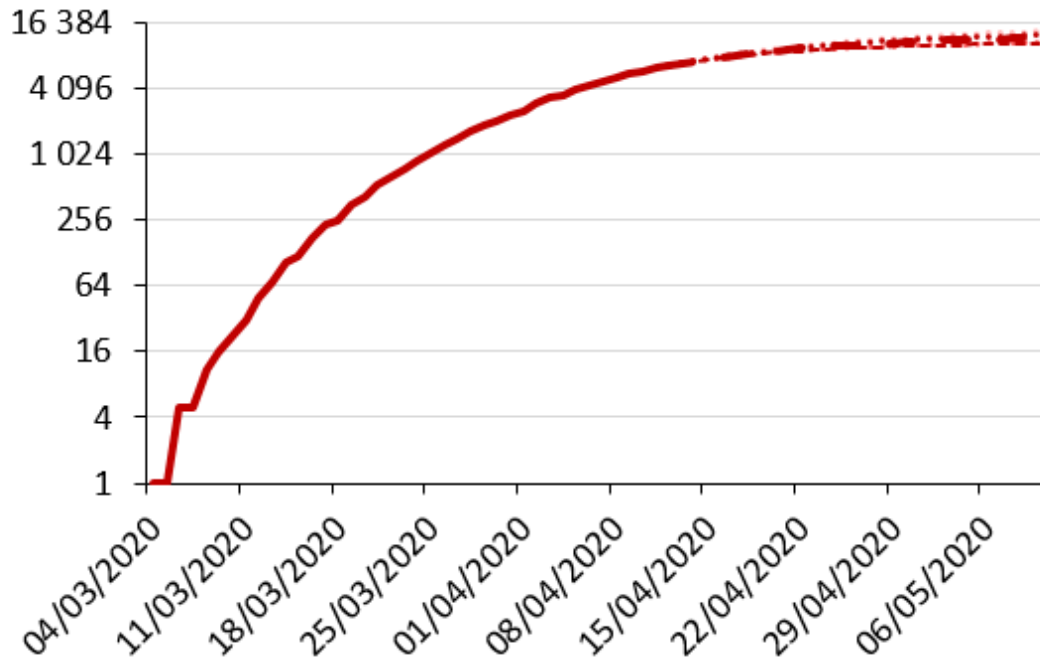


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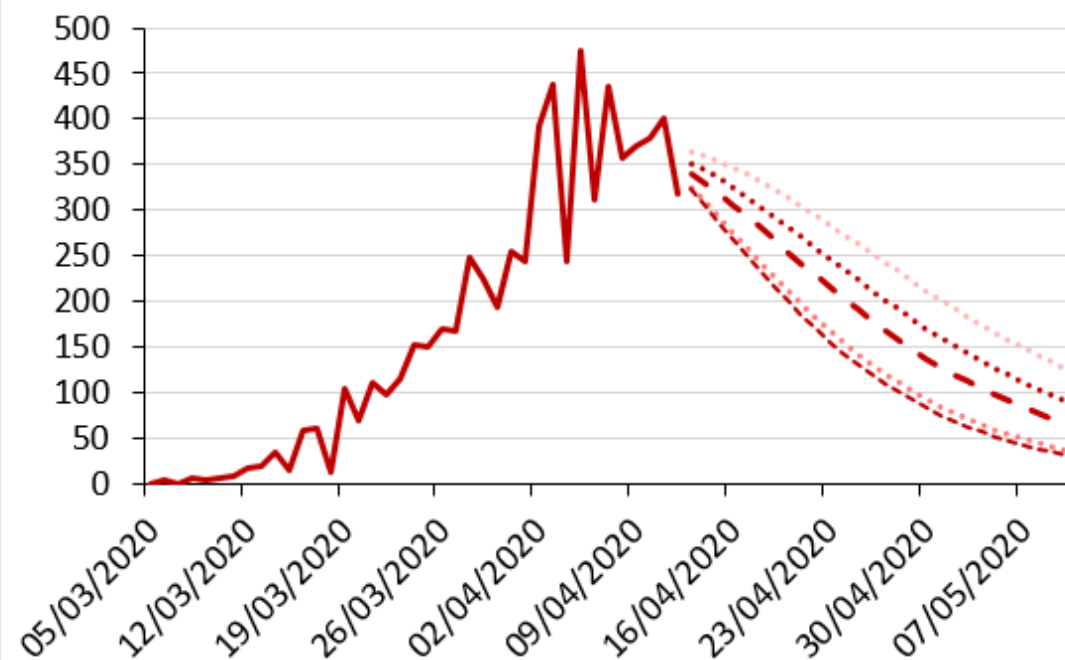
# Poland

— CONFIRMED    ····· 9 days'fit    ····· 8 days'fit    ····· 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

### Cumulated



### Daily

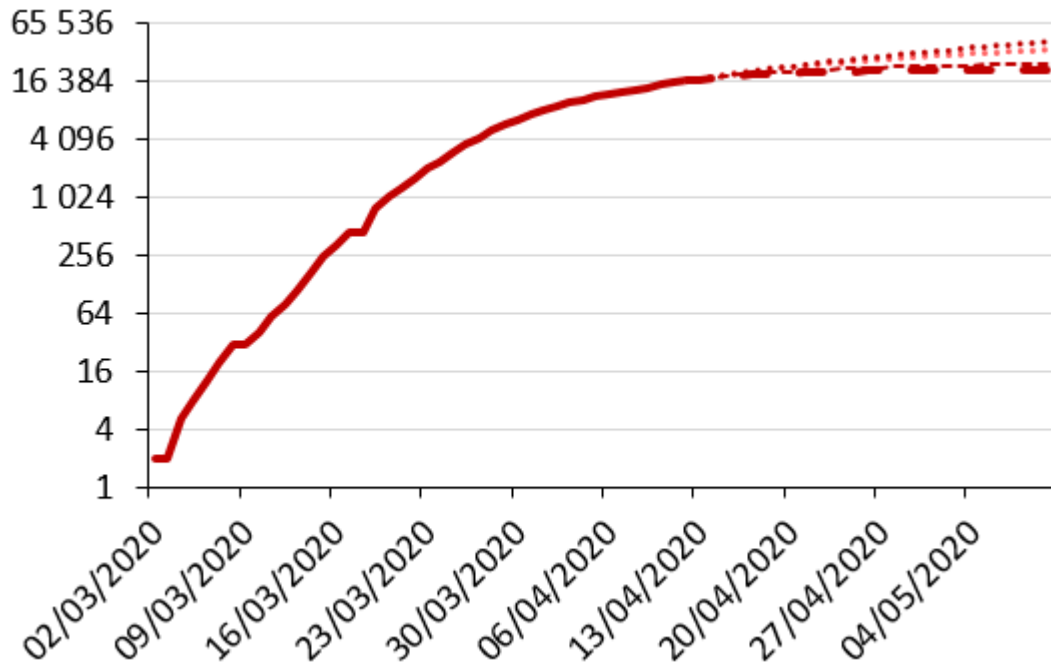


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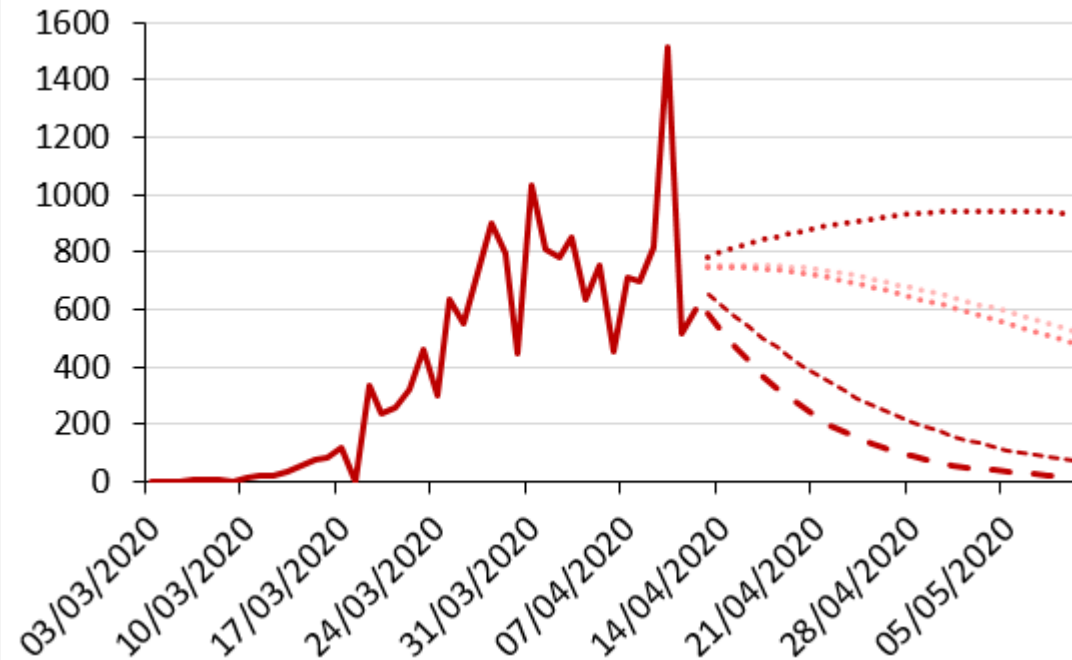
# Portugal

— CONFIRMED    ····· 9 days' fit    ····· 8 days' fit    ····· 7 days' fit    - - - - 6 days' fit    - - - - 5 days' fit

## Cumulated



## Daily



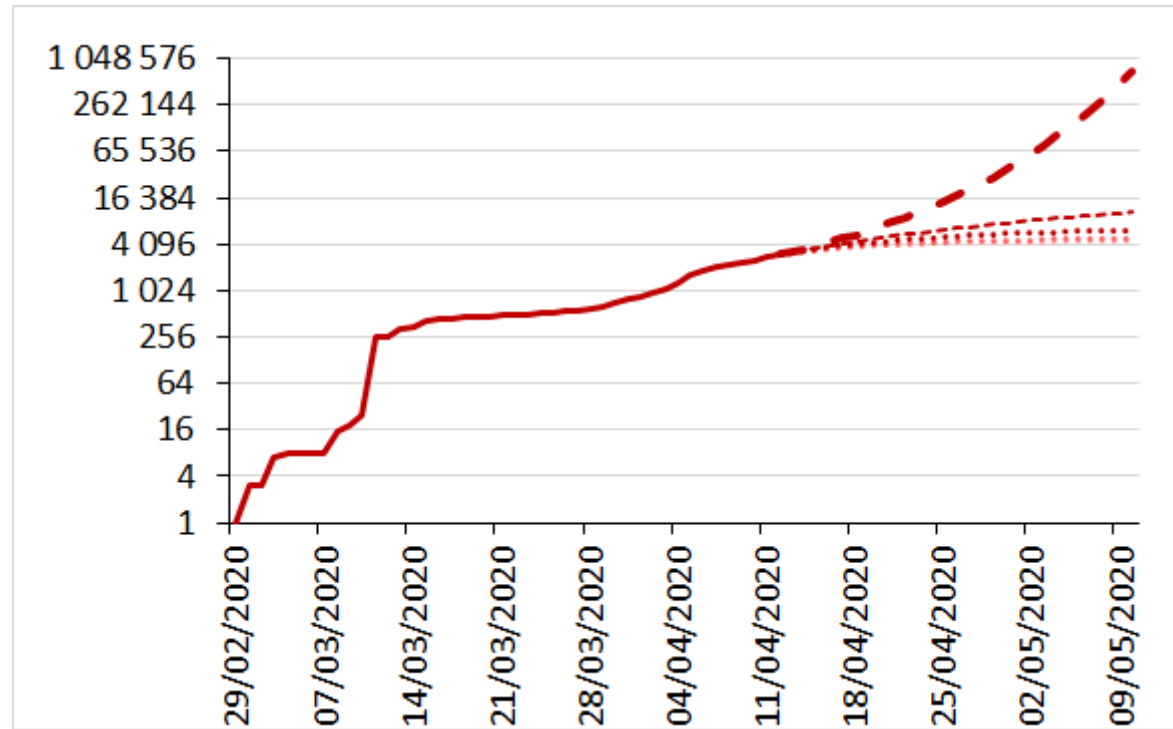
Data: The Johns Hopkins University, Politolog.com



# Qatar

— CONFIRMED    ..... 9 days' fit    ..... 8 days' fit    ..... 7 days' fit    - - - - 6 days' fit    - - - - 5 days' fit

## Cumulated

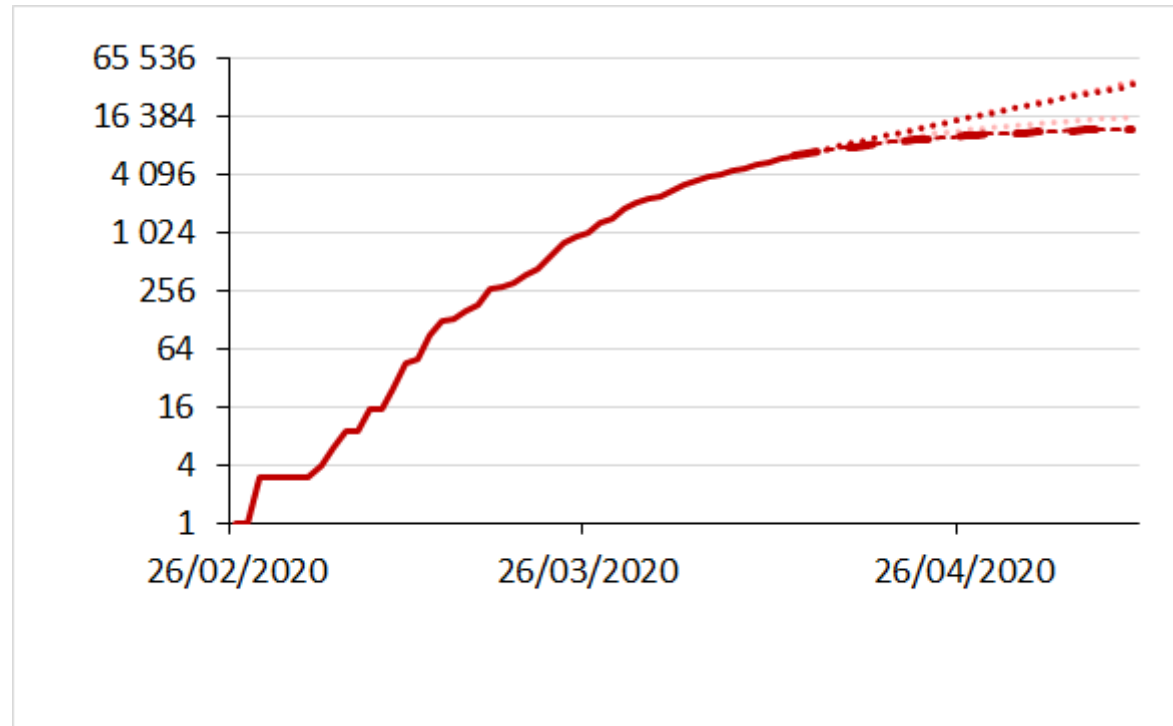


Data: The Johns Hopkins University, Politolog.com

# Romania

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated

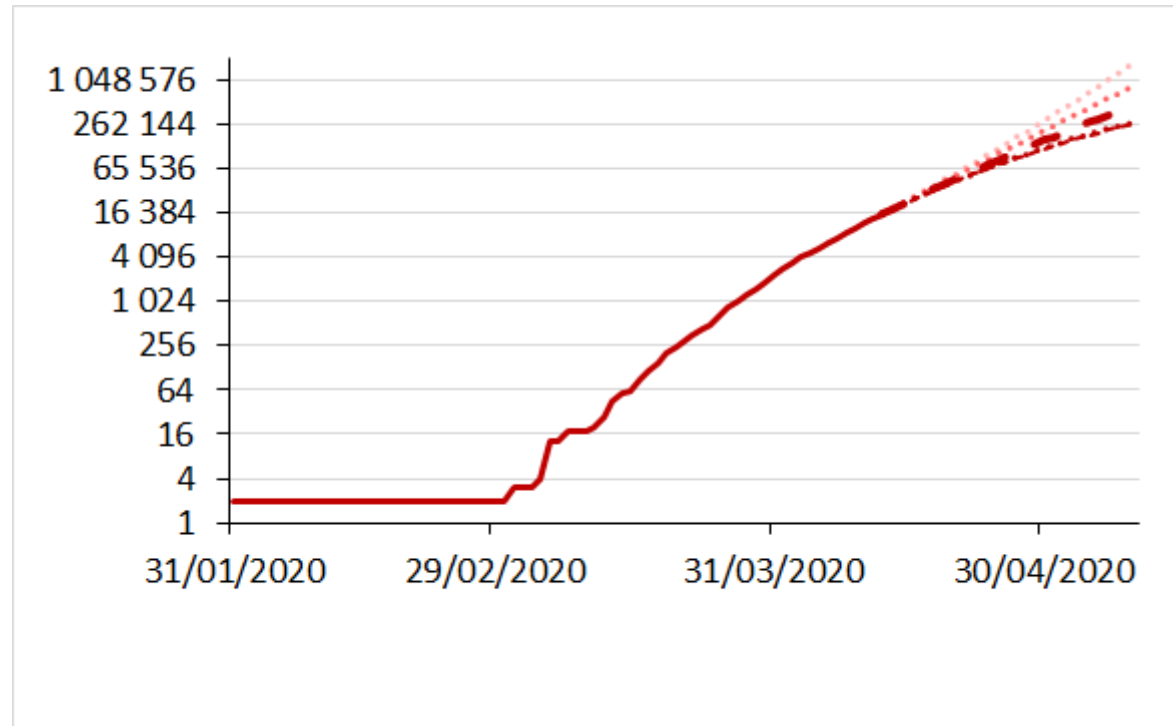


Data: The Johns Hopkins University, Politolog.com

# Russia

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

## Cumulated

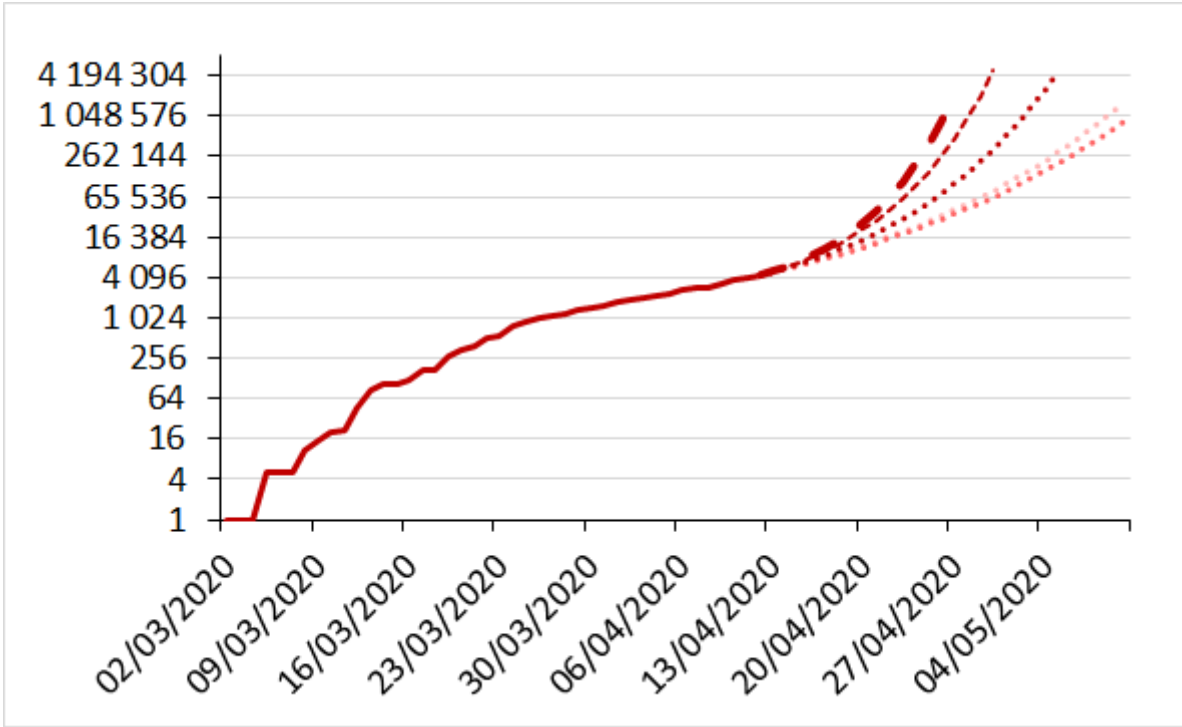


Data: The Johns Hopkins University, Politolog.com

# Saudi Arabia

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

Cumulated

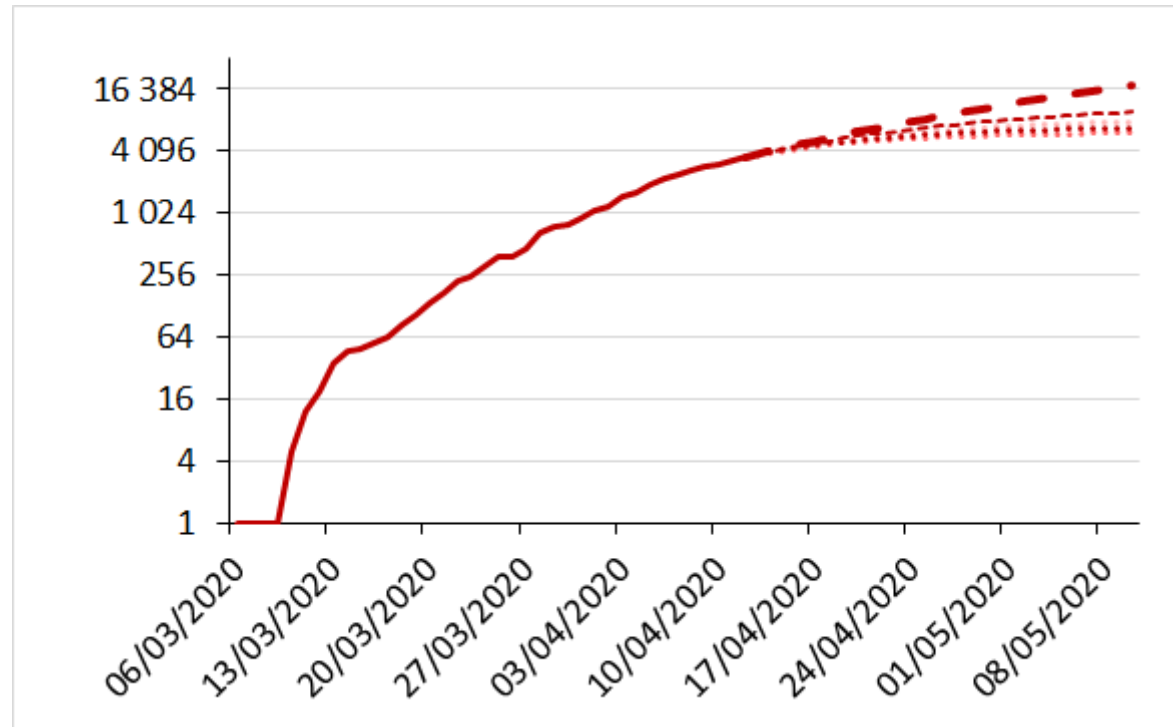


Data: The Johns Hopkins University, Politolog.com

# Serbia

— CONFIRMED    ····· 9 days'fit    ····· 8 days'fit    ····· 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated

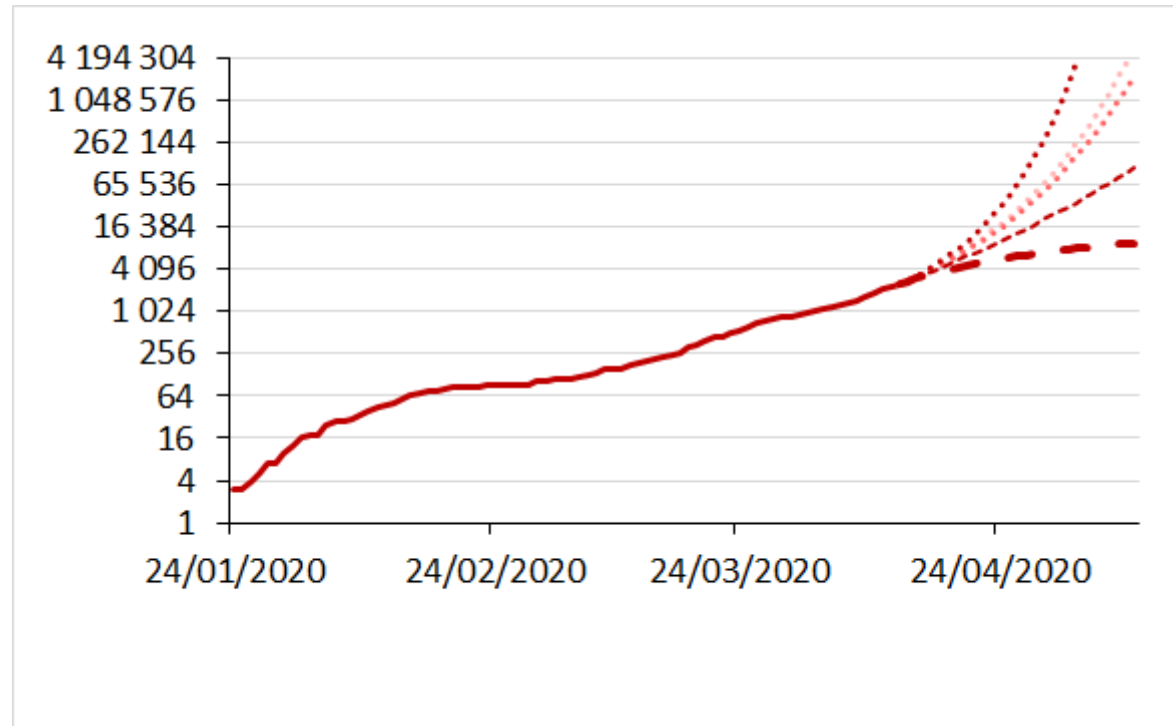


Data: The Johns Hopkins University, Politolog.com

# Singapore

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

Cumulated

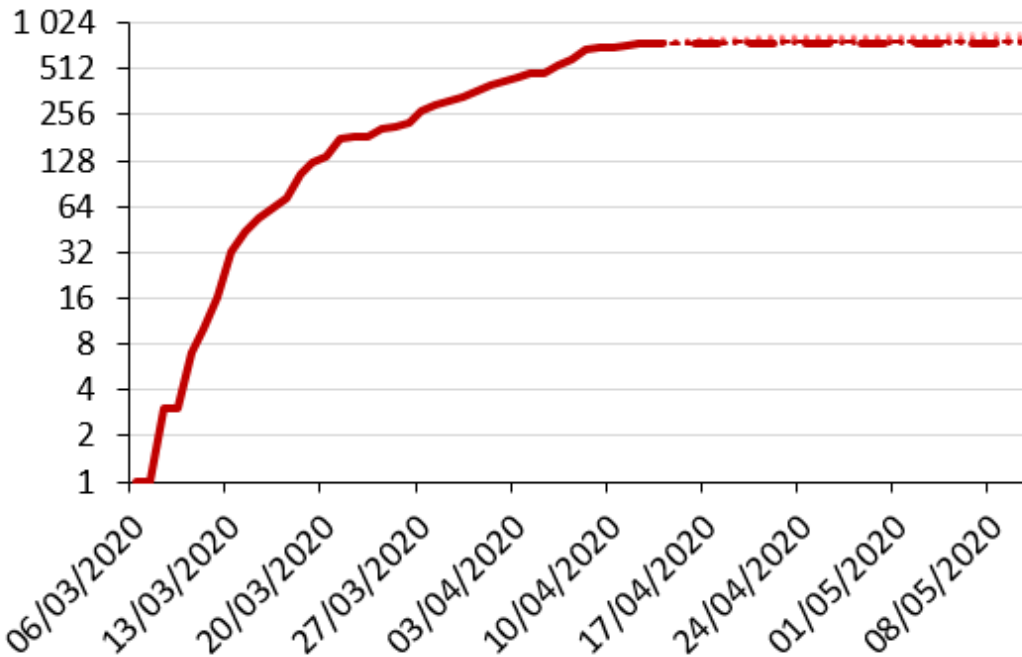


Data: The Johns Hopkins University, Politolog.com

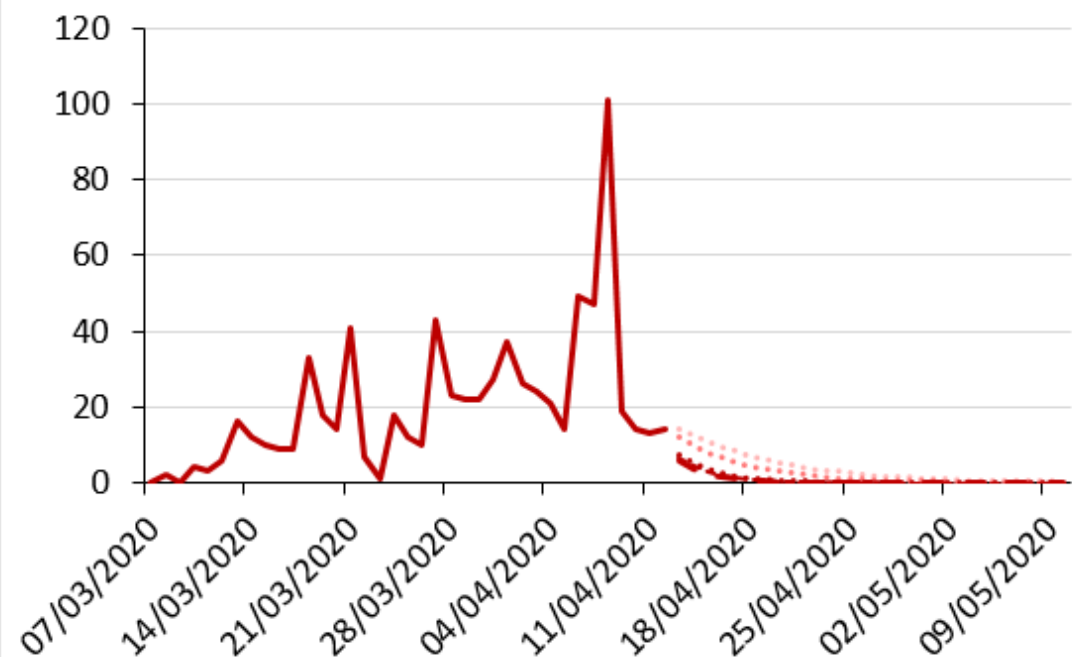
# Slovakia

— CONFIRMED    ····· 9 days'fit    ····· 8 days'fit    ····· 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

### Cumulated



### Daily

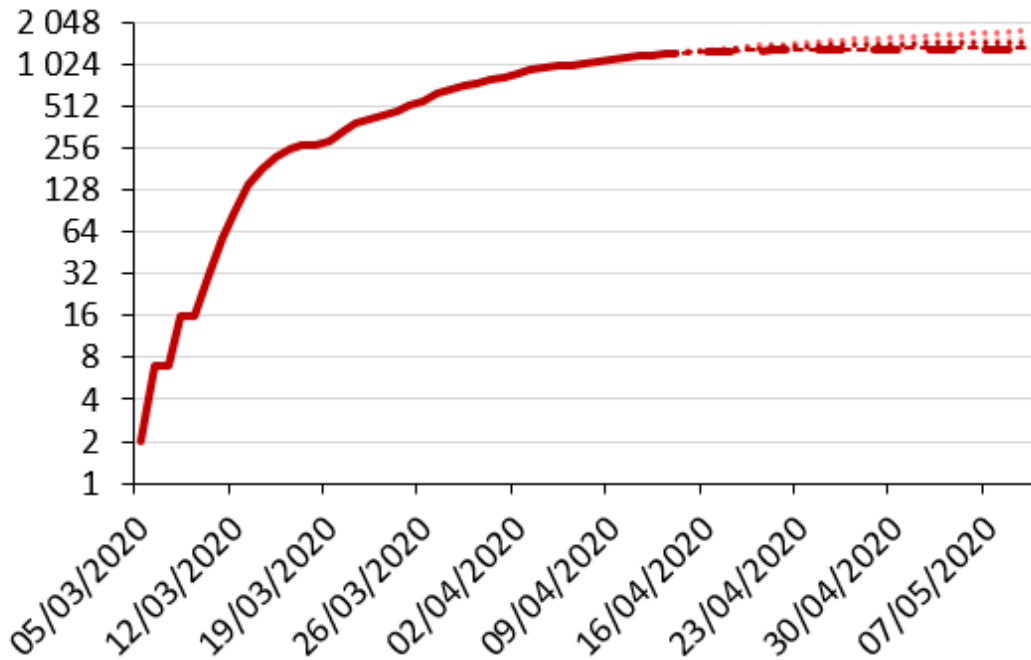


Data: The Johns Hopkins University, Politolog.com

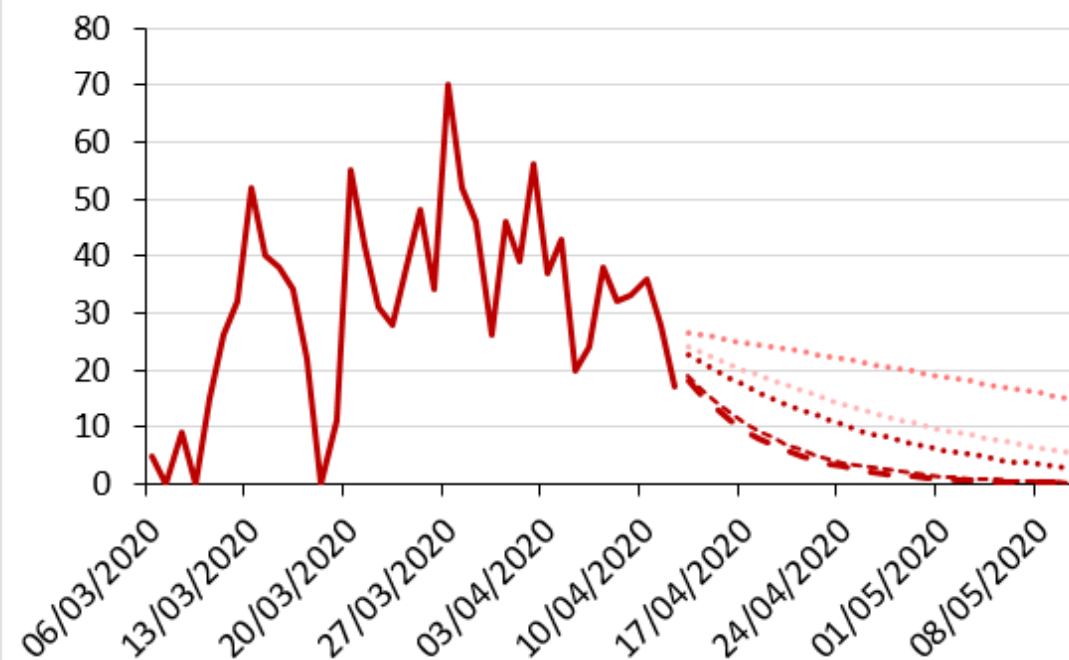
# Slovenia

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

### Cumulated



### Daily



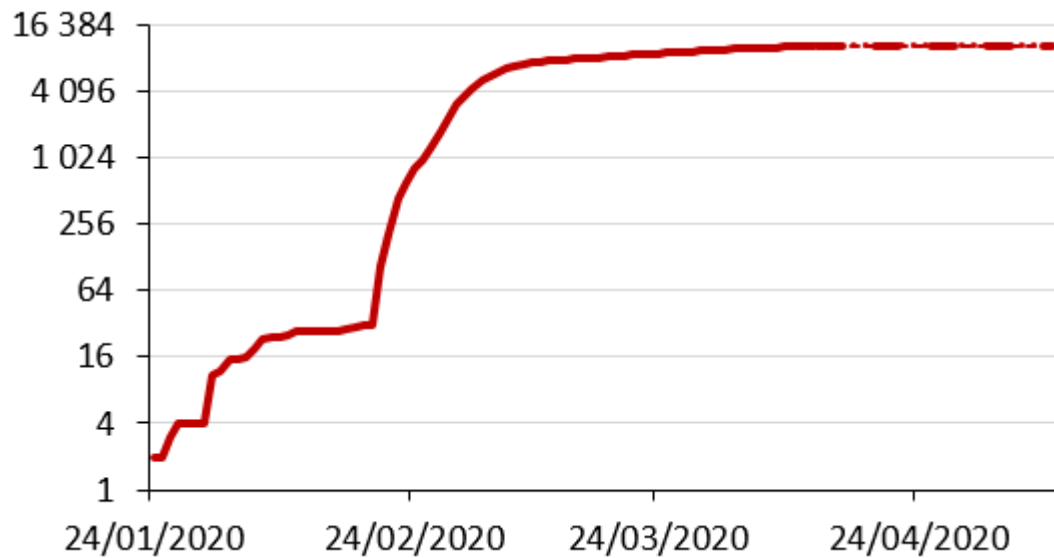
Data: The Johns Hopkins University, Politolog.com



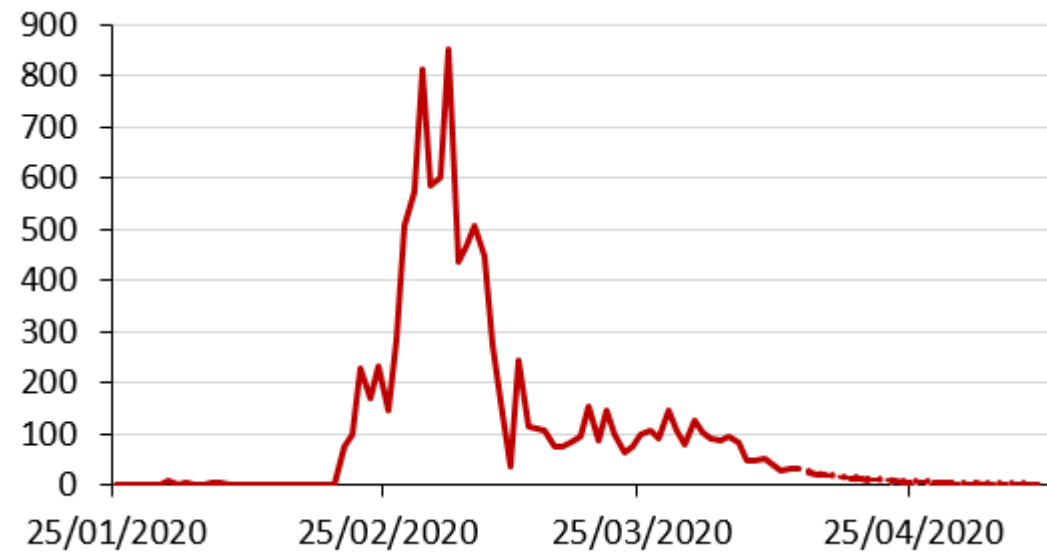
# South Korea

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

## Cumulated



## Daily

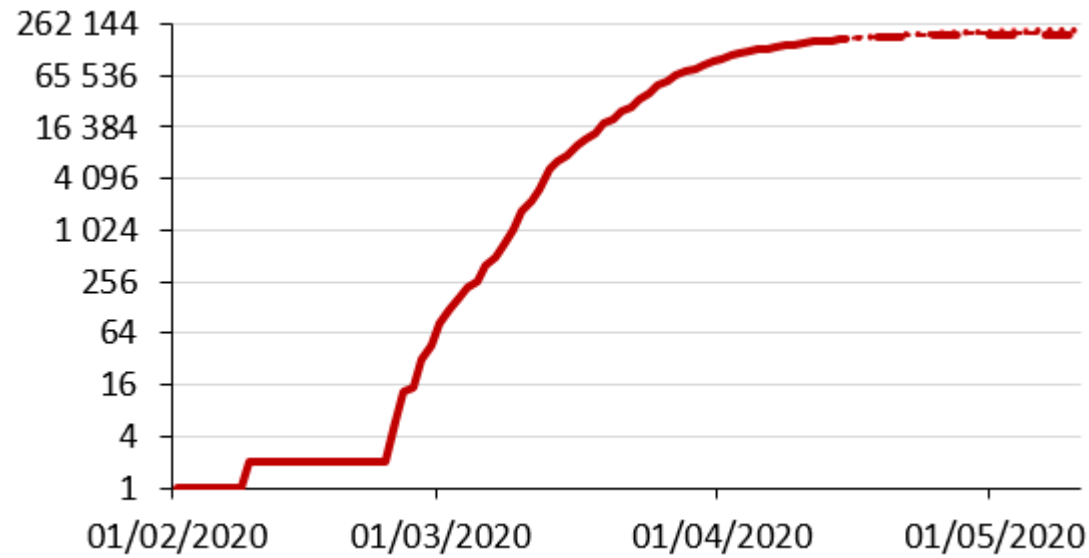


Data: The Johns Hopkins University, Politolog.com

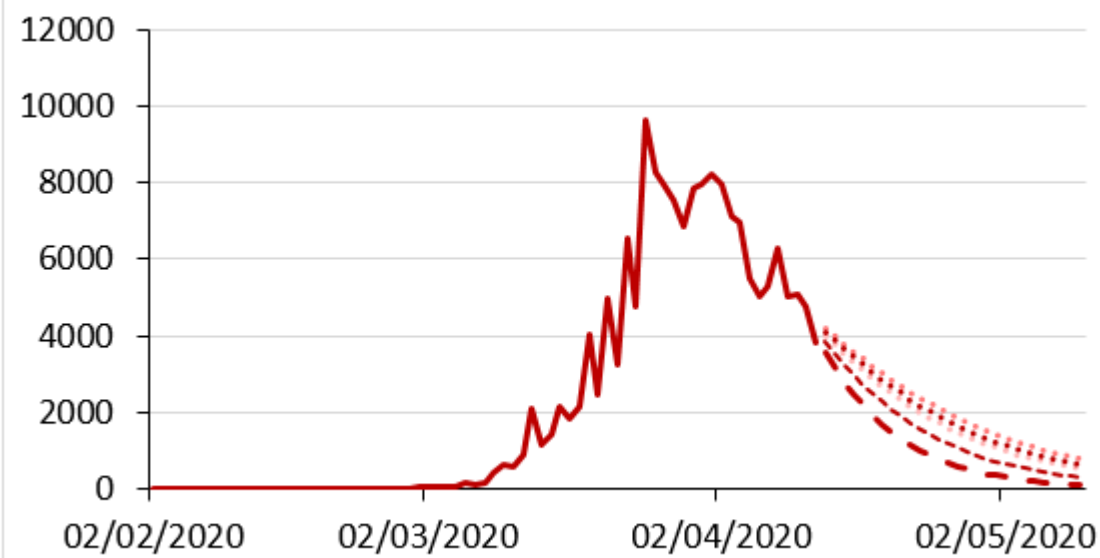
# Spain

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

### Cumulated



### Daily

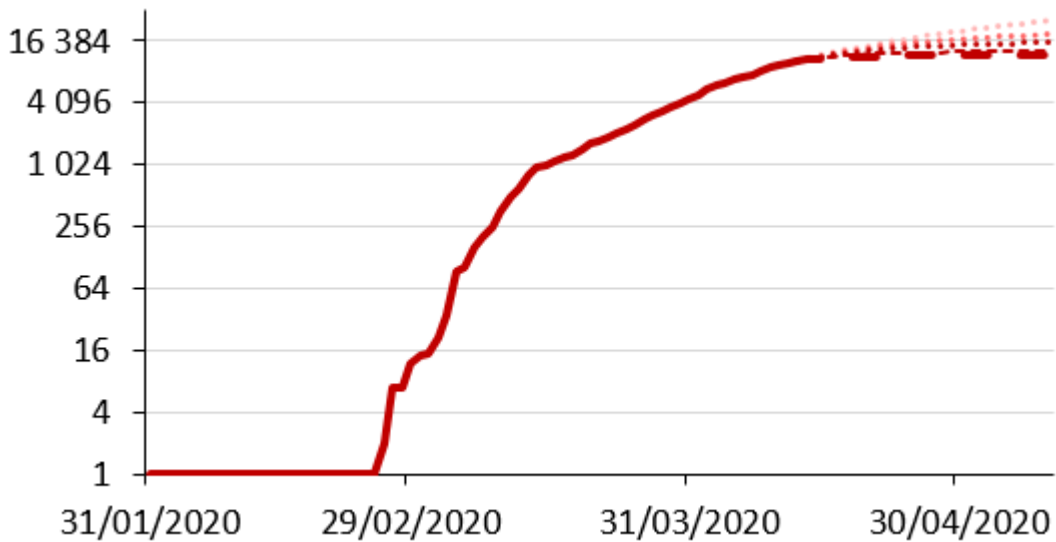


Data: The Johns Hopkins University, Politolog.com

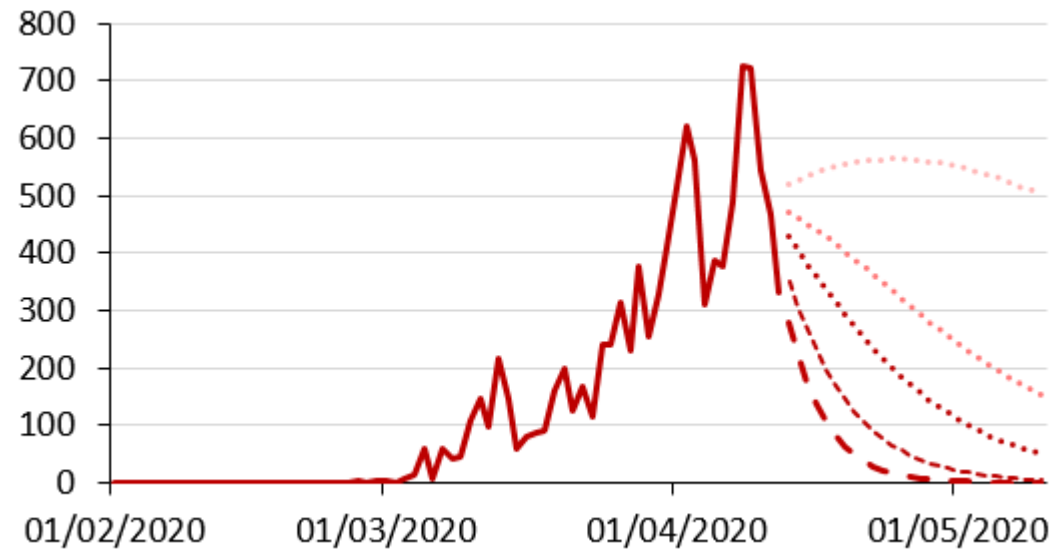
# Sweden

— CONFIRMED    ····· 9 days'fit    ····· 8 days'fit    ····· 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated



## Daily

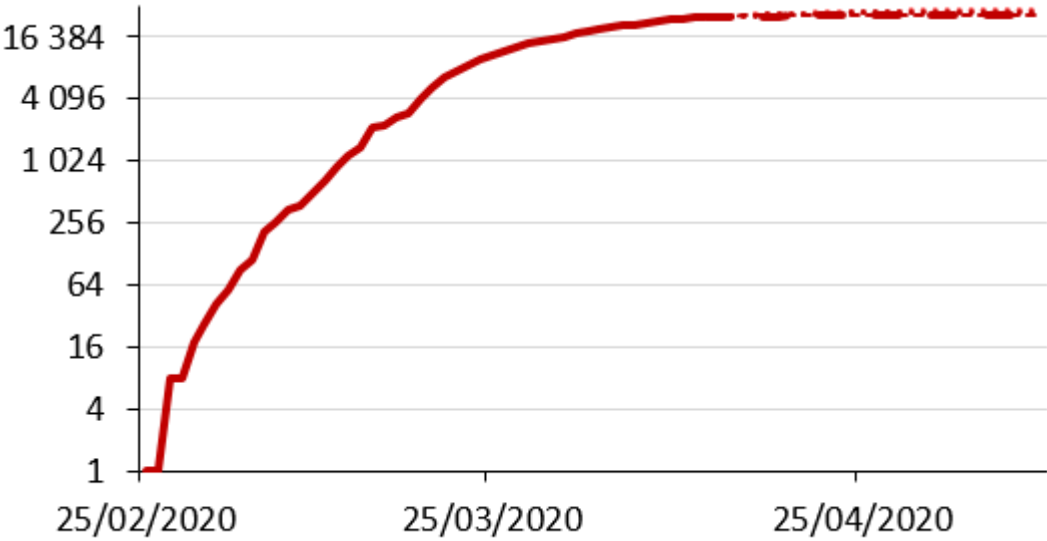


Data: The Johns Hopkins University, Politolog.com

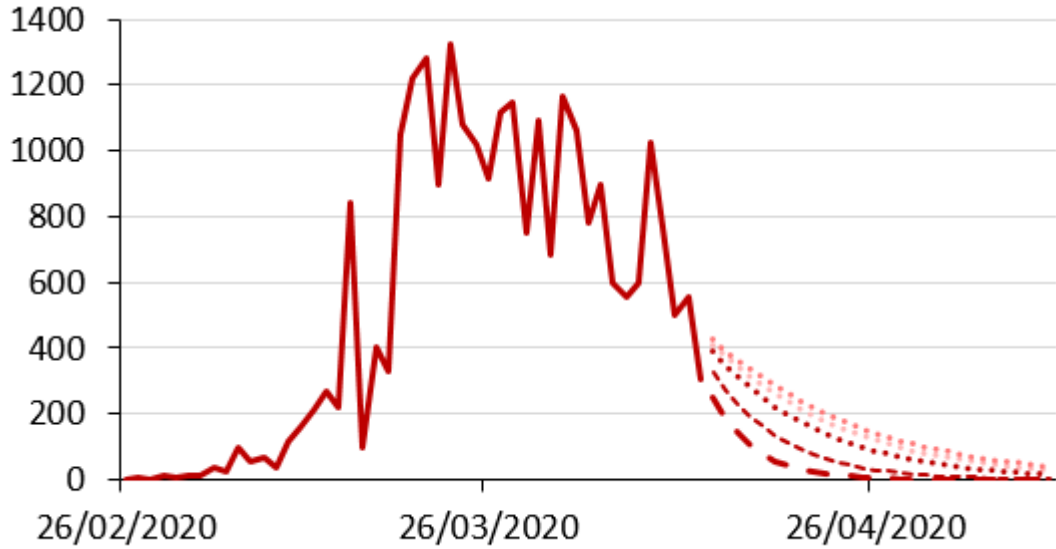
# Switzerland

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

### Cumulated



### Daily

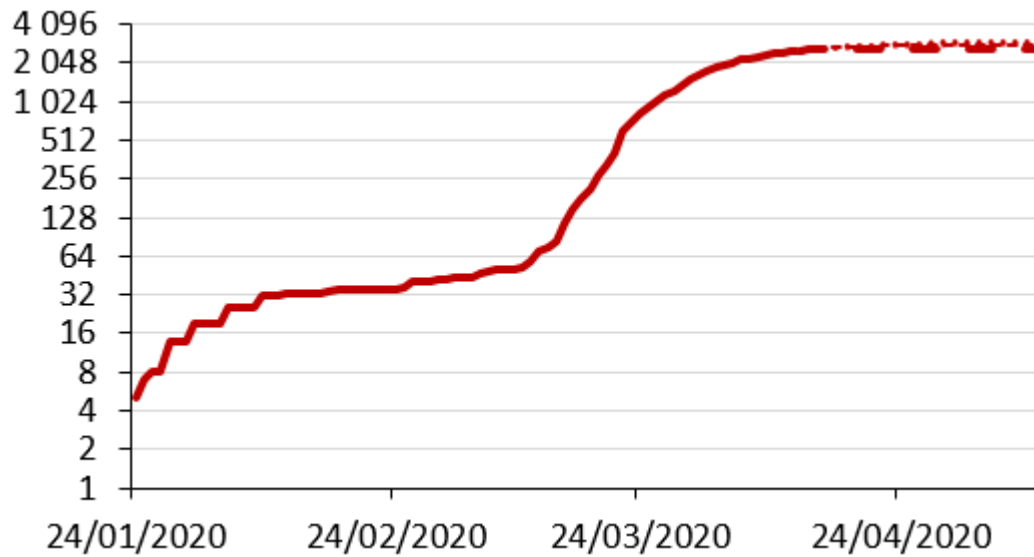


Data: The Johns Hopkins University, Politolog.com

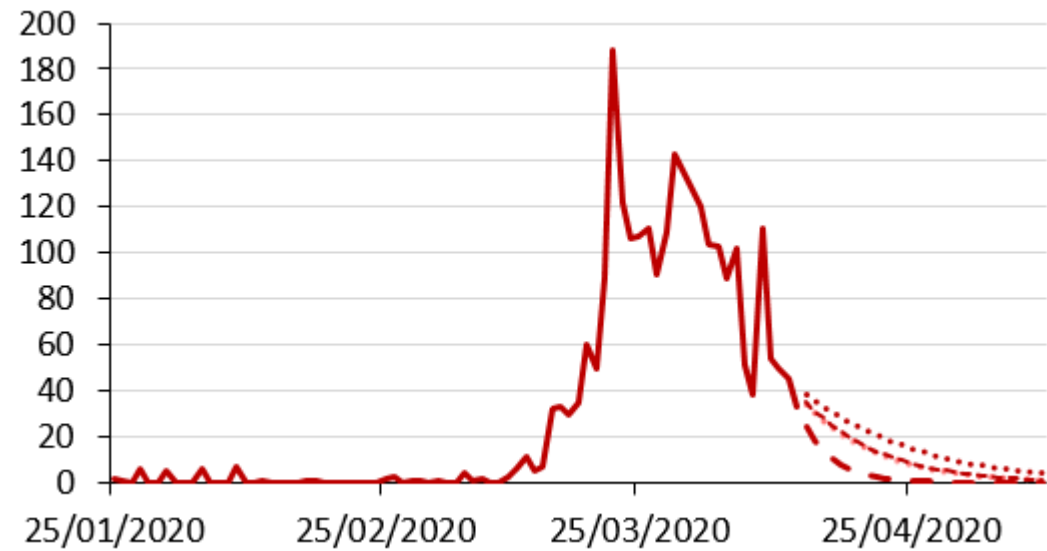
# Thailand

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated



## Daily

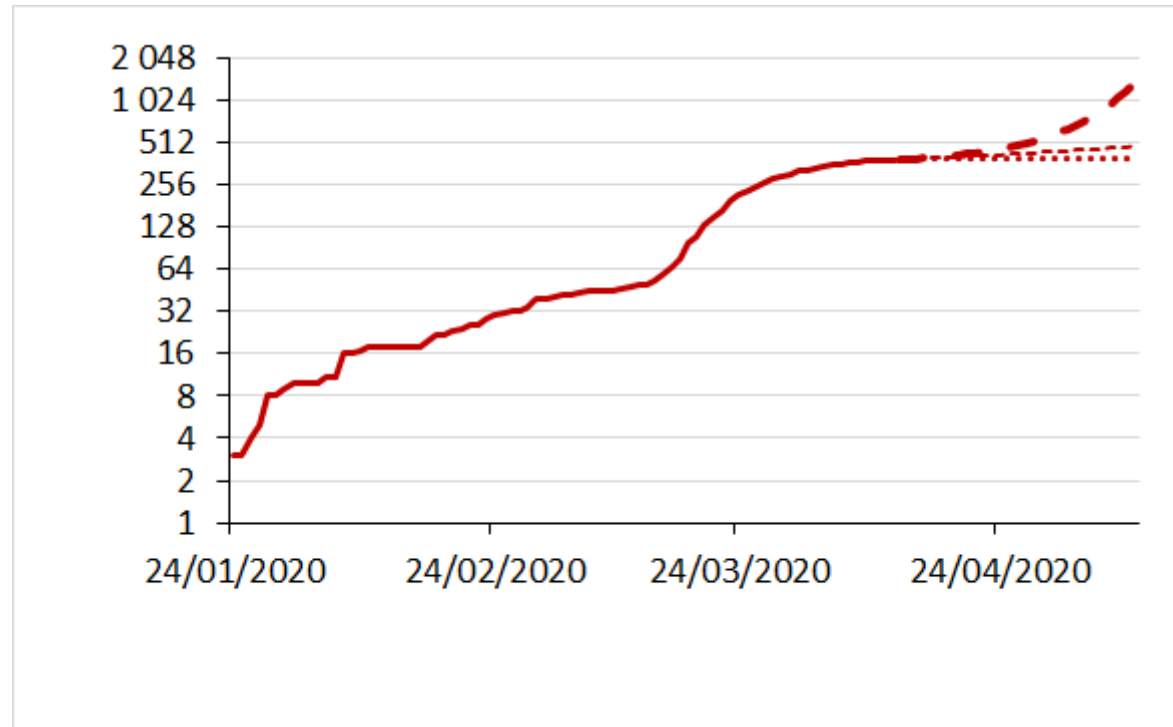


Data: The Johns Hopkins University, Politolog.com

# Taiwan

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

## Cumulated

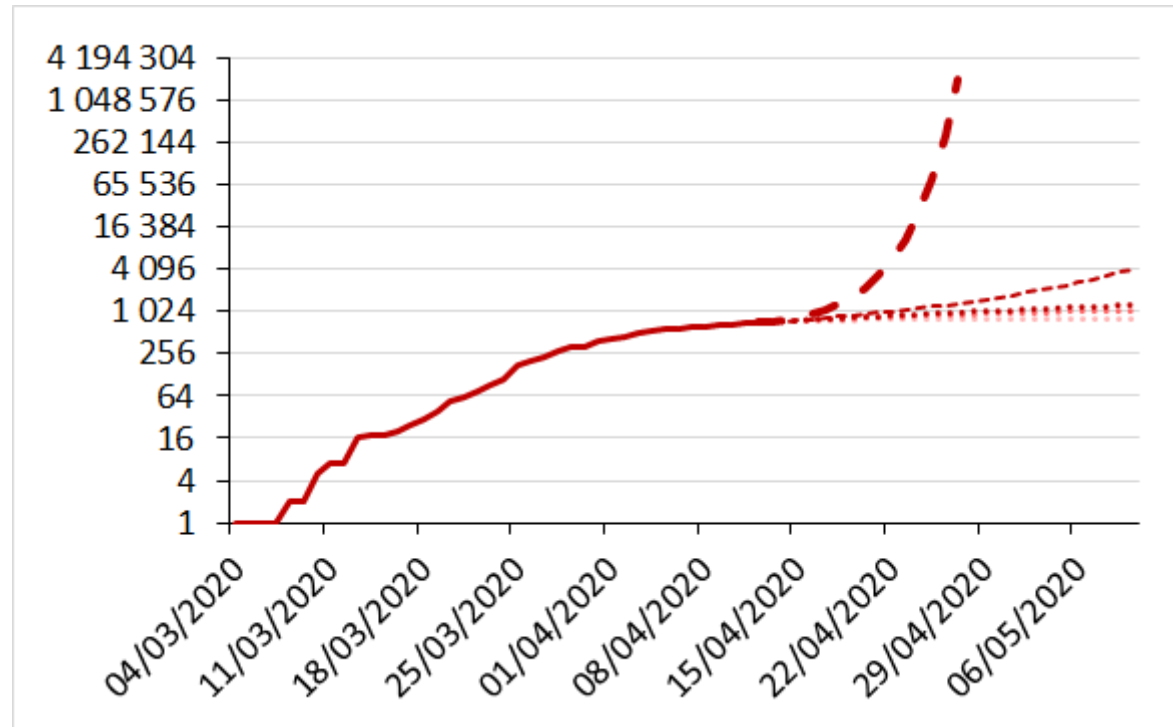


Data: The Johns Hopkins University, Politolog.com

# Tunisia

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated

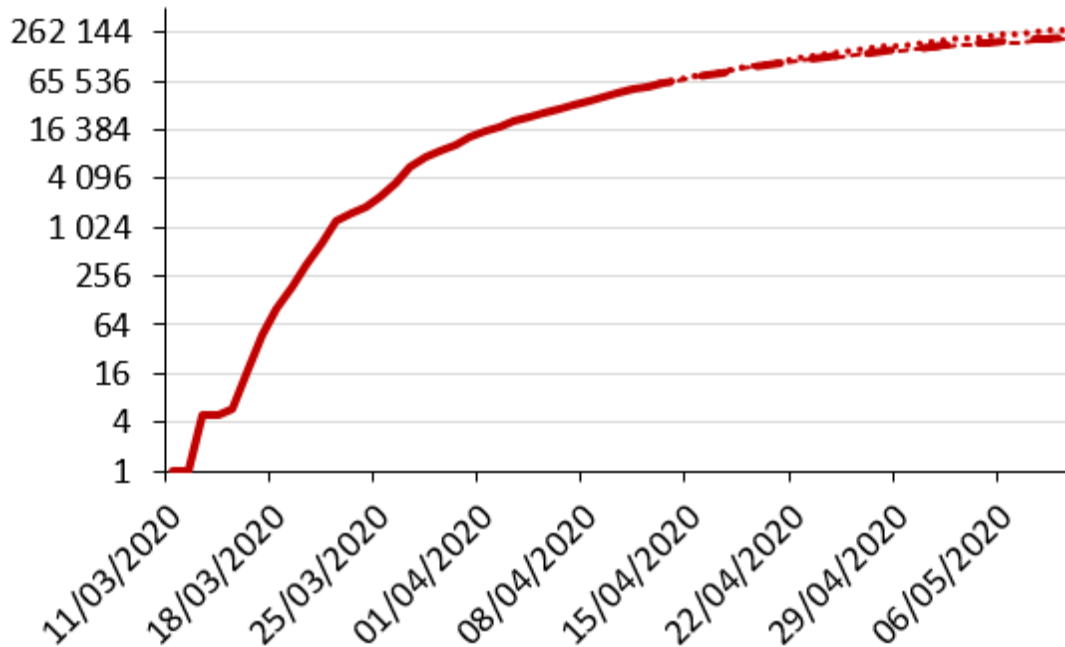


Data: The Johns Hopkins University, Politolog.com

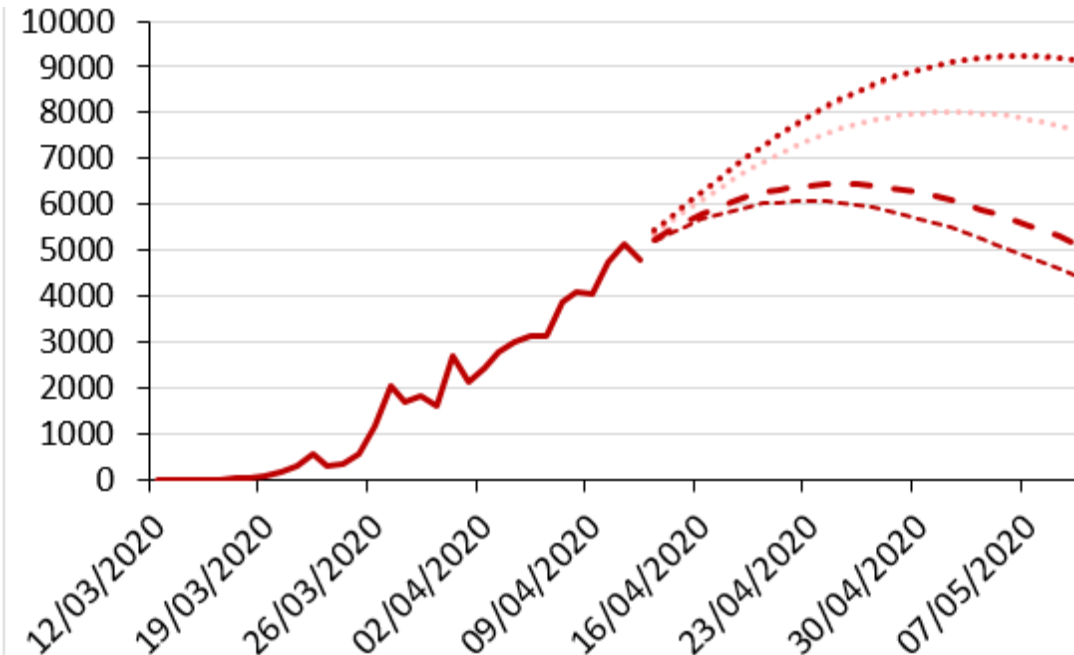
# Turkey

— CONFIRMED    ····· 9 days'fit    ····· 8 days'fit    ····· 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

### Cumulated



### Daily



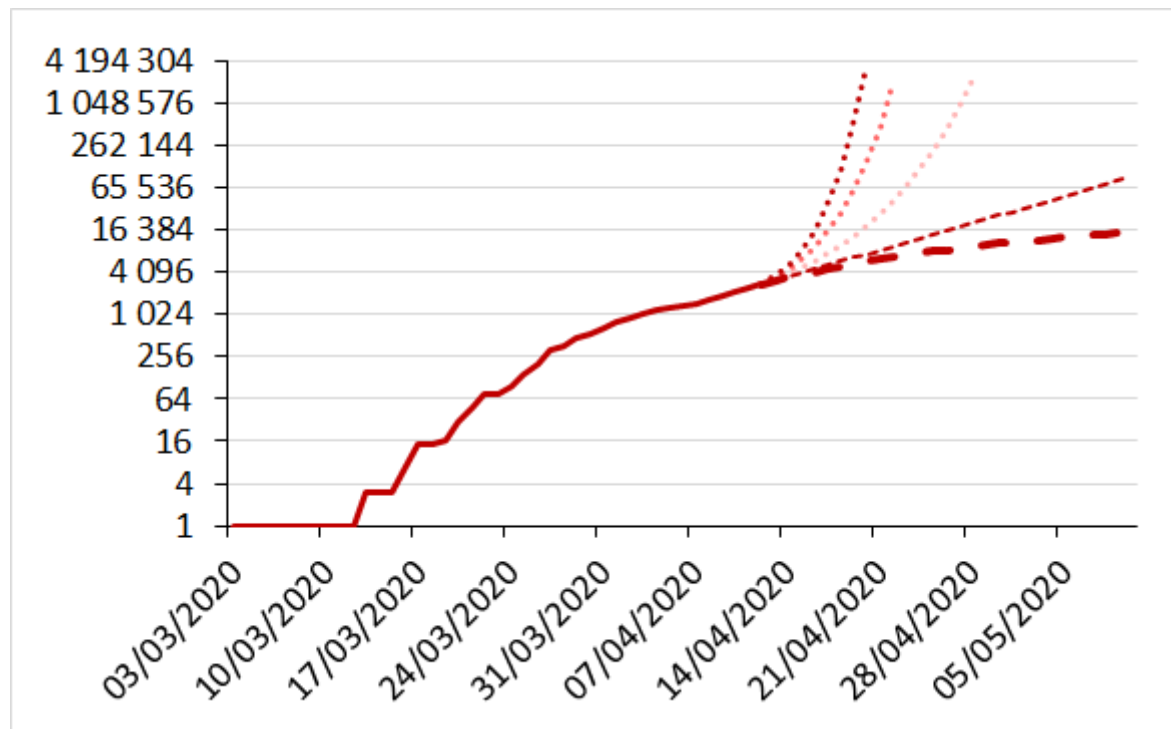
Data: The Johns Hopkins University, Politolog.com



# Ukraine

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated

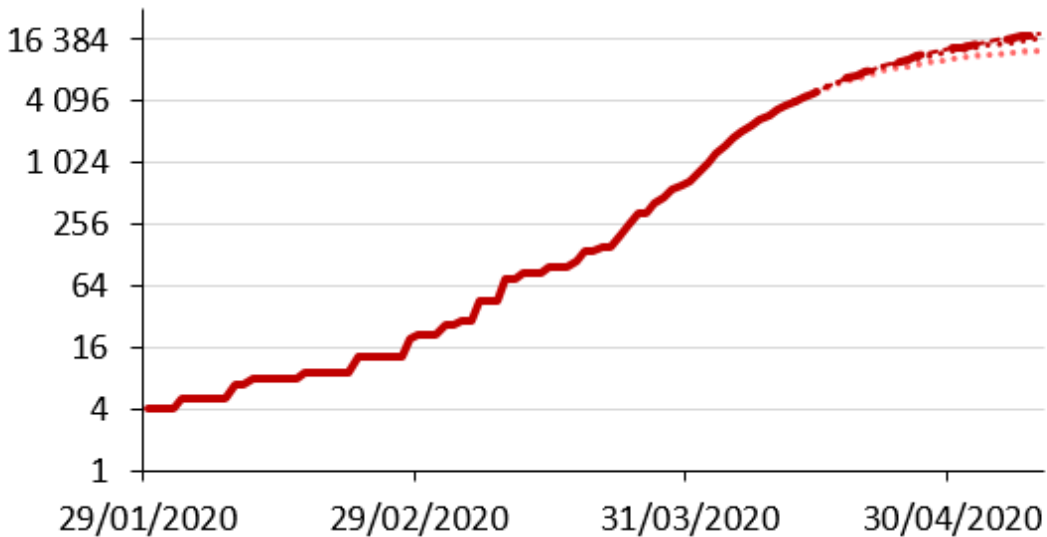


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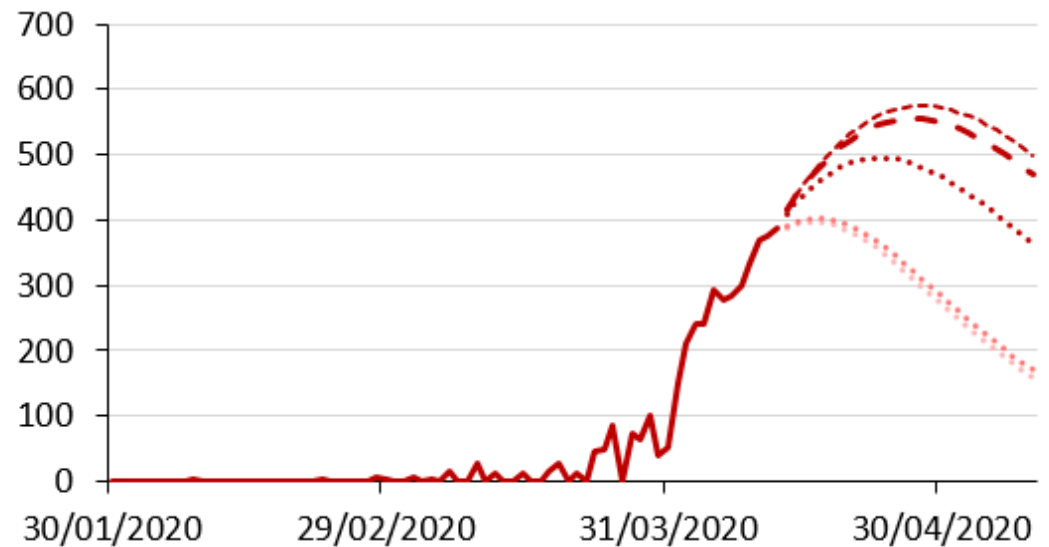
# United Arab Emirates

CONFIRMED 9 days'fit 8 days'fit 7 days'fit 6 days'fit 5 days'fit

### Cumulated



### Daily

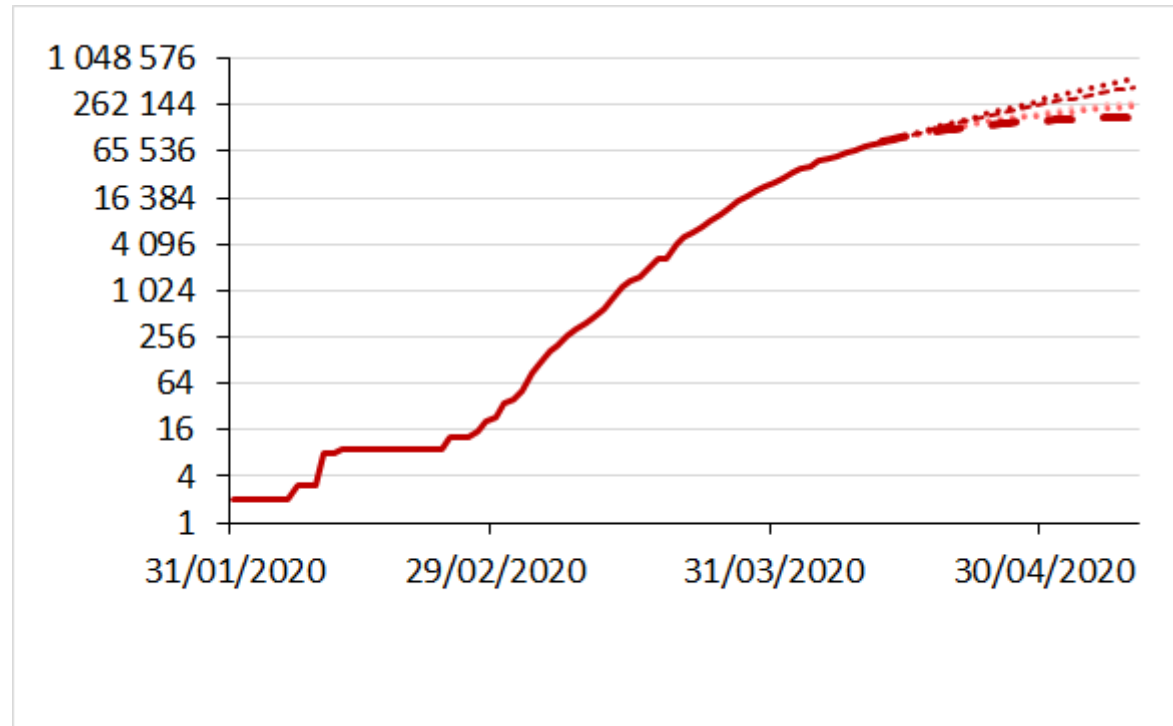


Data: The Johns Hopkins University, Politolog.com

# United Kingdom

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - - 6 days'fit    - - - - 5 days'fit

Cumulated

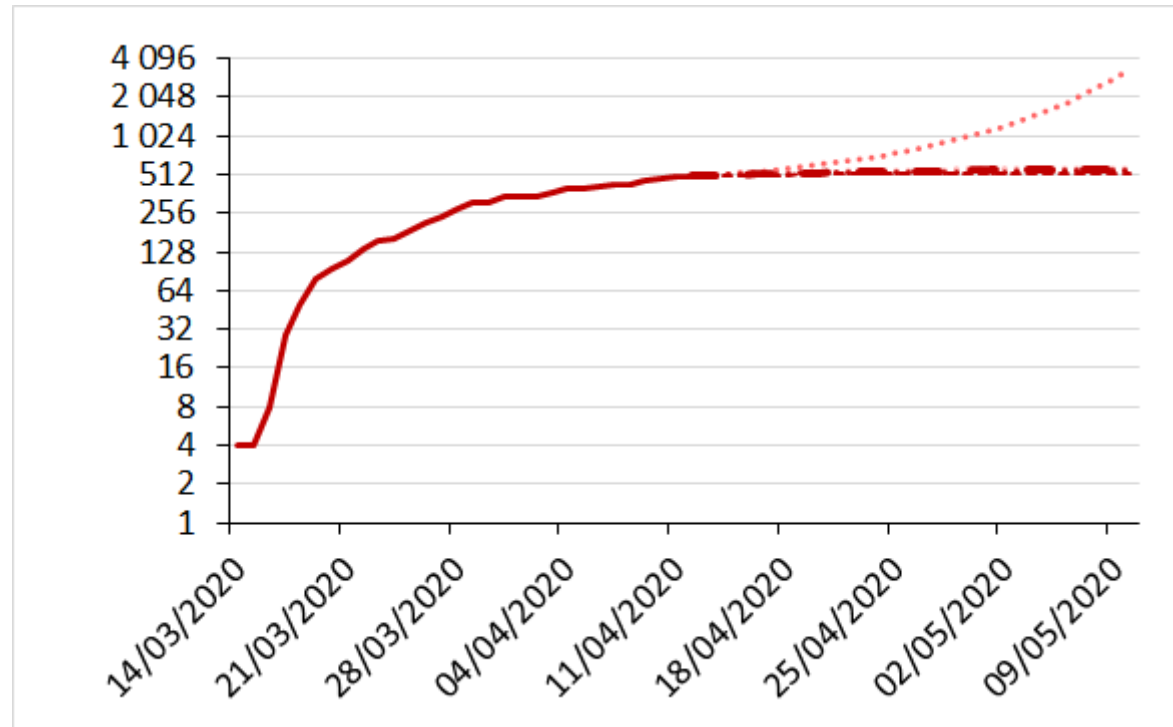


Data: The Johns Hopkins University, Politolog.com

# Uruguay

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated

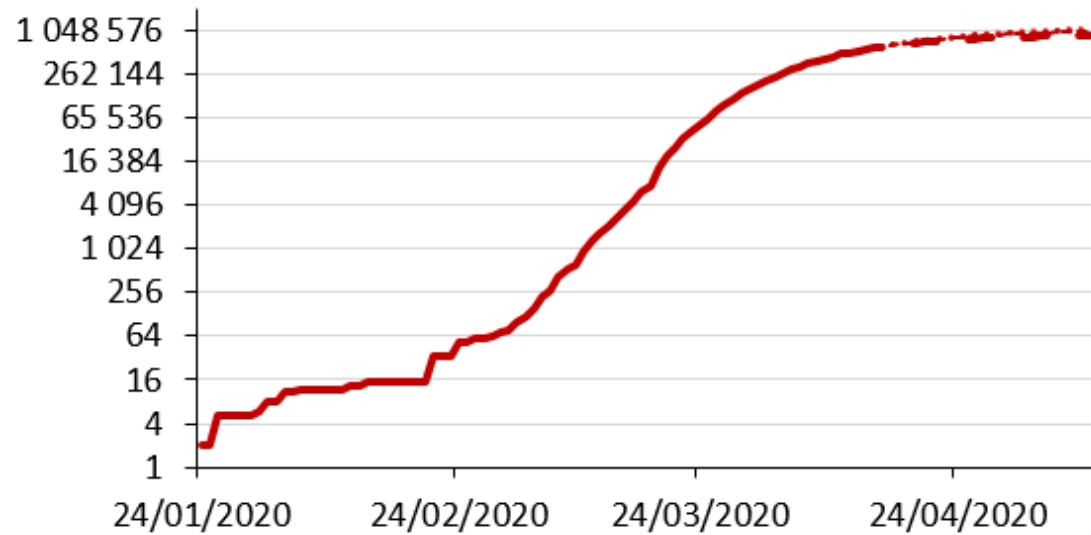


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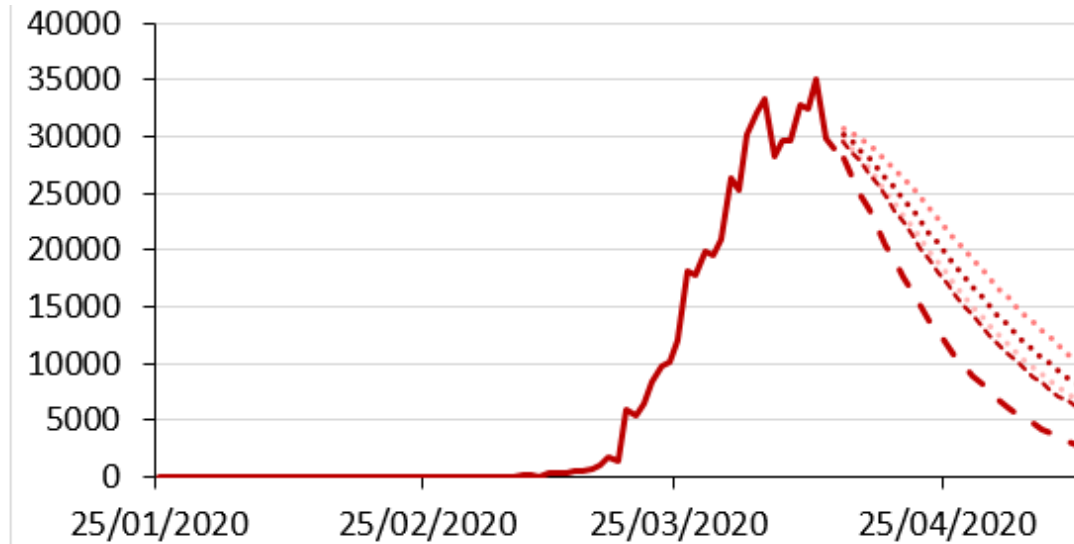
# USA

— CONFIRMED    ..... 9 days'fit    ..... 8 days'fit    ..... 7 days'fit    - - - 6 days'fit    - - - 5 days'fit

## Cumulated



## Daily



Data: The Johns Hopkins University, Politolog.com



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