

18 April 2020

COVID-19 Projections

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COVID-19 Cases' and Deaths' Projection Method

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.

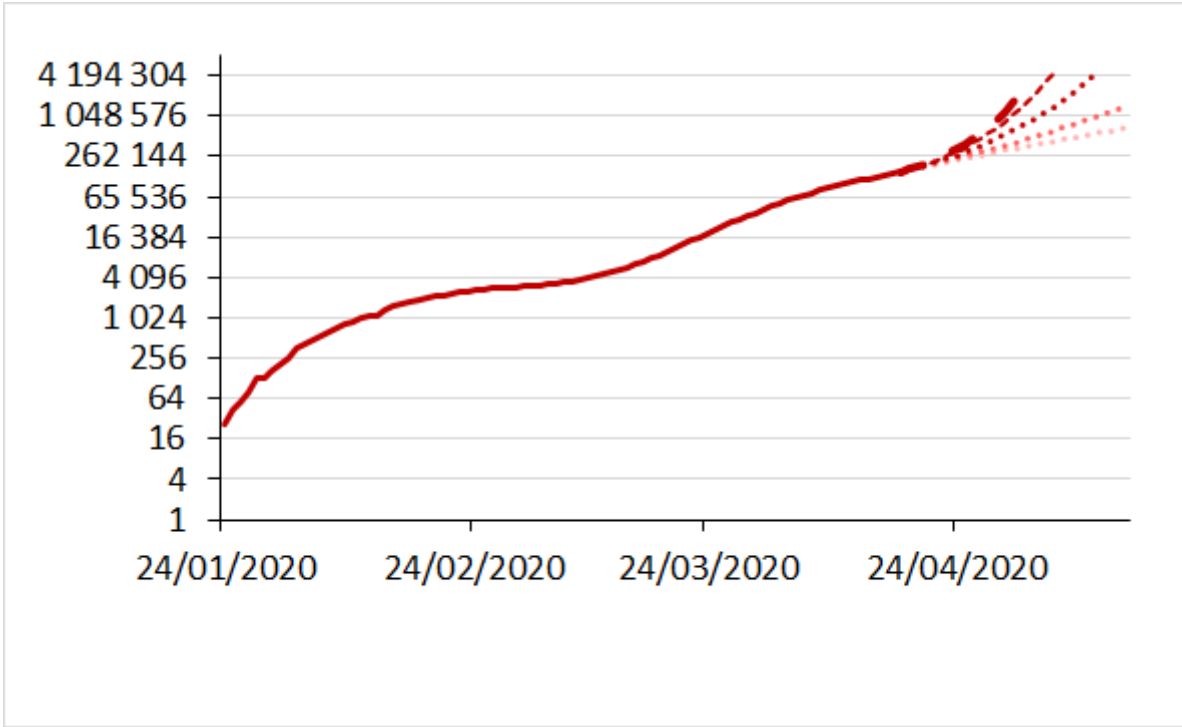
During the early days of an epidemic, projections can be extremely volatile, and it is therefore recommended not to draw black-and-white conclusions from a daily report, but to follow the evolution over many days.

DEATHS - PROJECTIONS

World

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

Cumulated

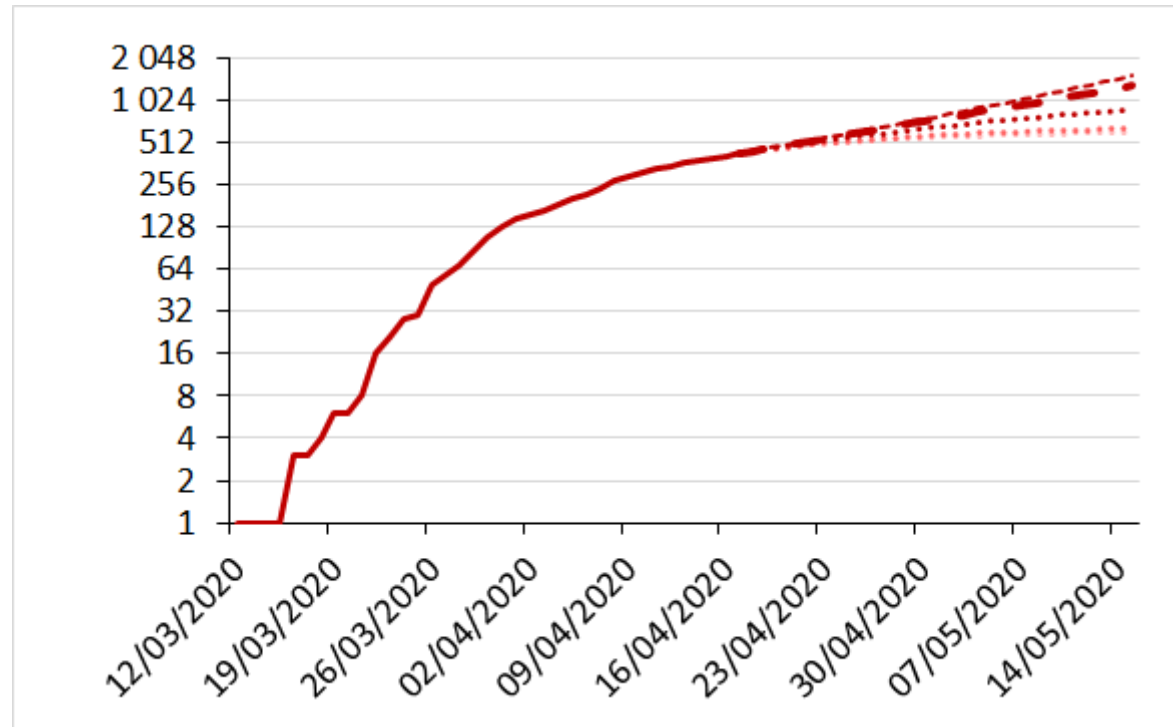


Data: The Johns Hopkins University, Politolog.com

Austria

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

Cumulated

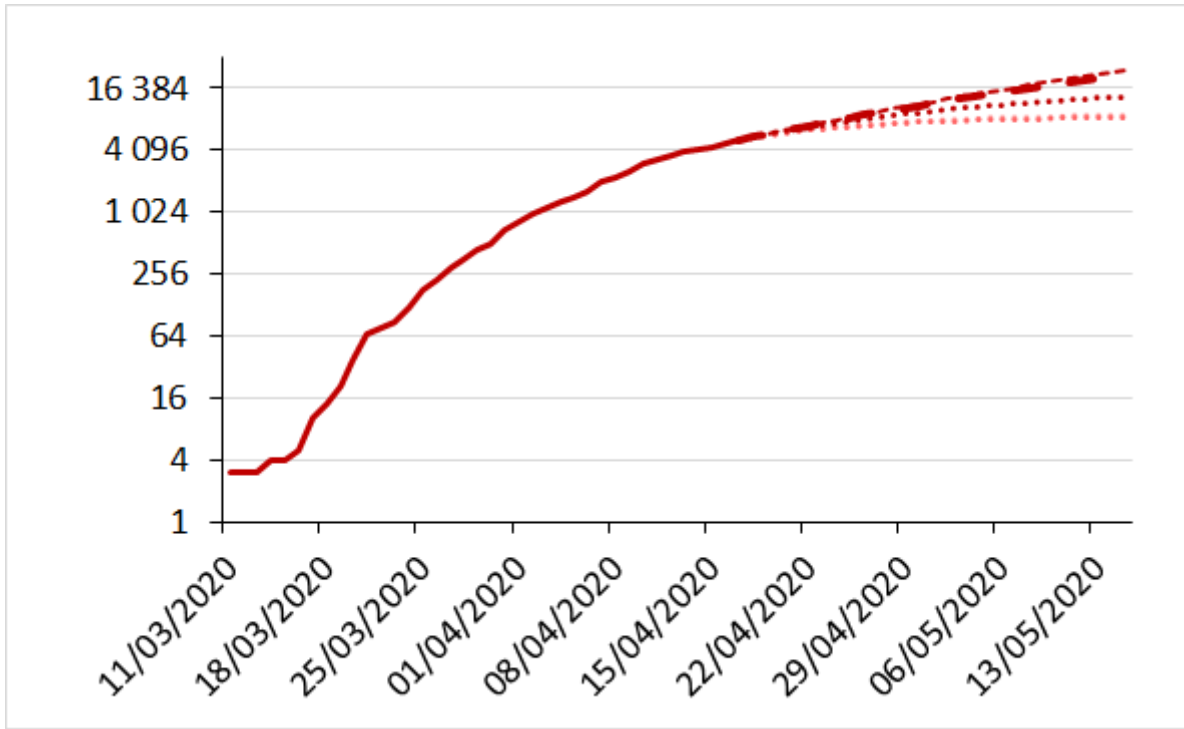


Data: The Johns Hopkins University, Politolog.com

Belgium

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

Cumulated

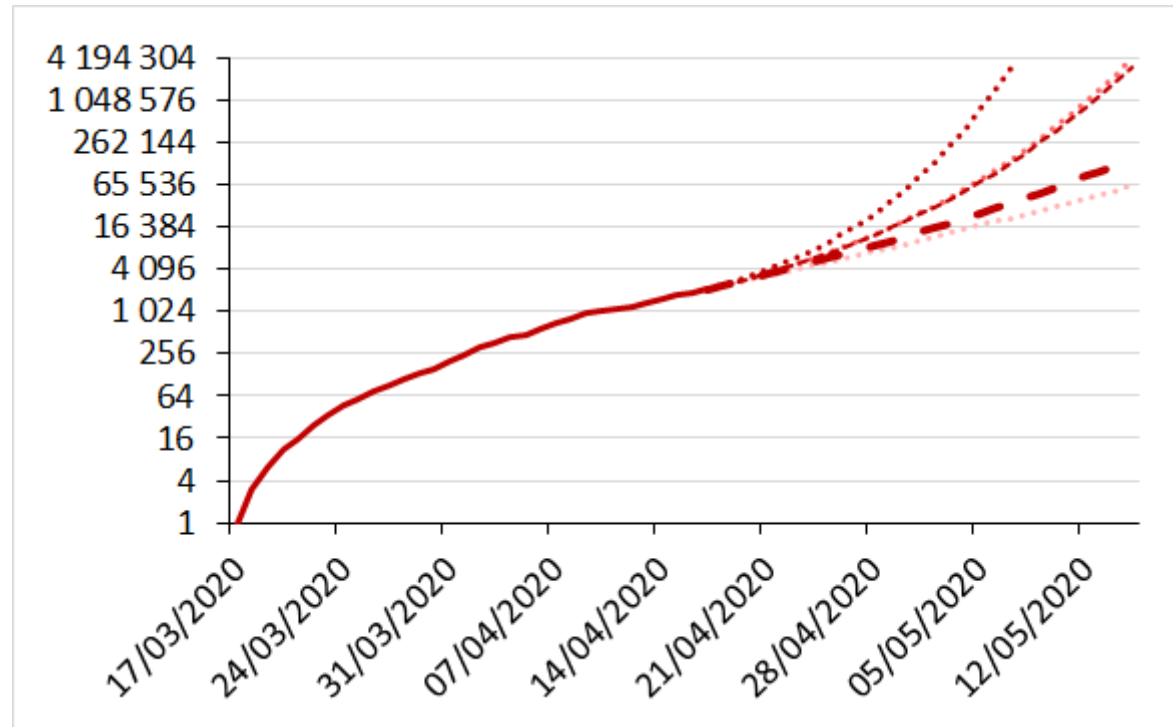


Data: The Johns Hopkins University, Politolog.com

Brazil

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

Cumulated

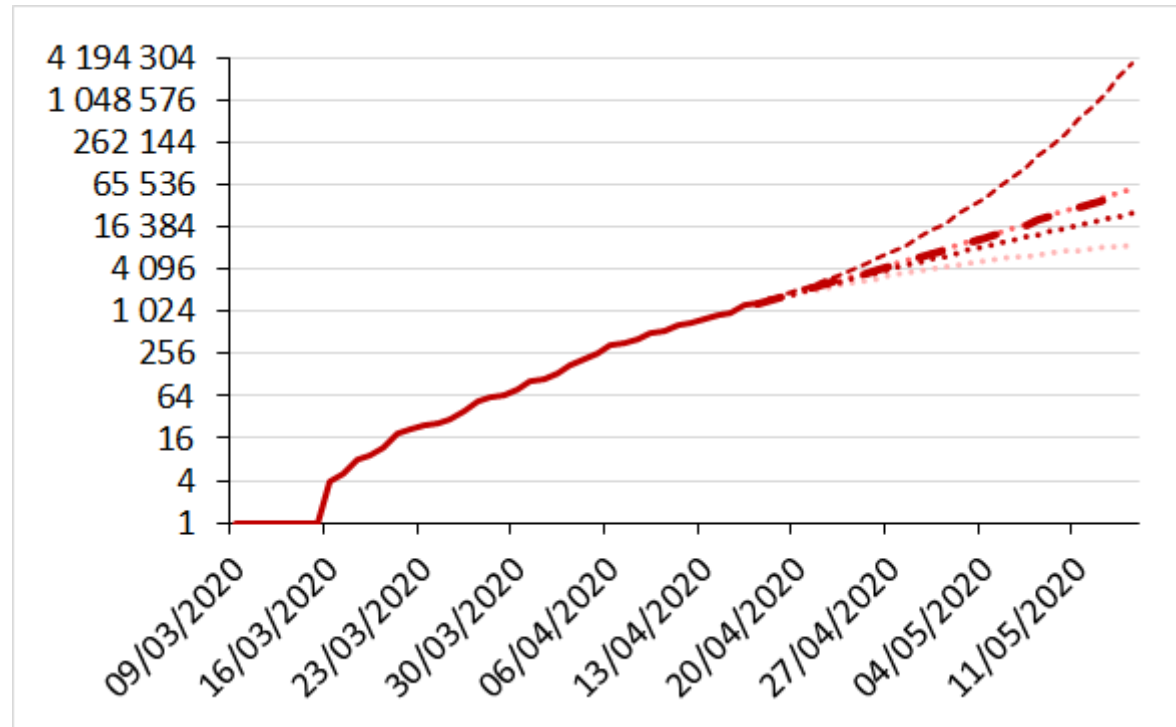


Data: The Johns Hopkins University, Politolog.com

Canada

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

Cumulated

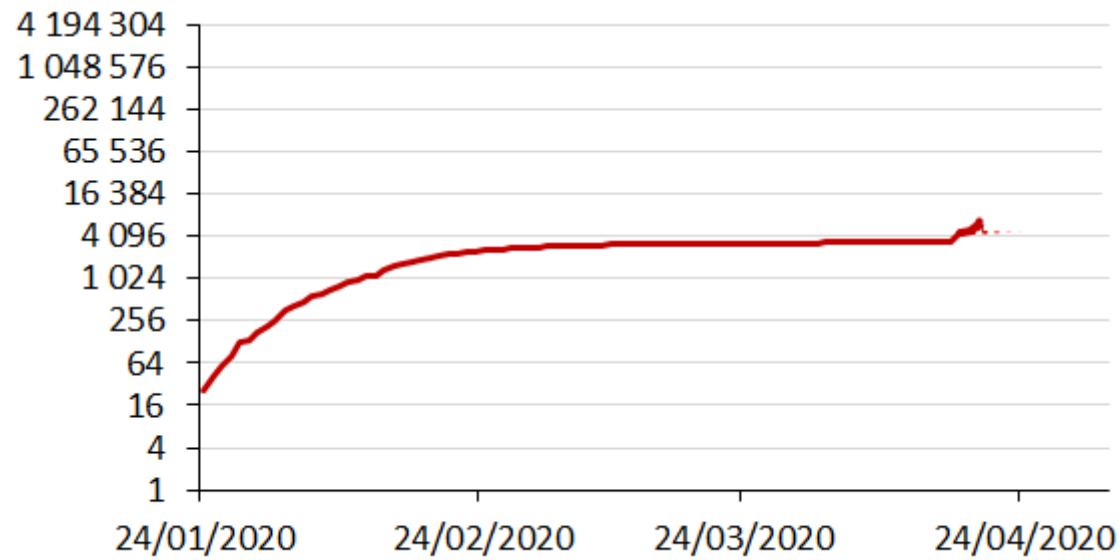


Data: The Johns Hopkins University, Politolog.com

China

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

Cumulated

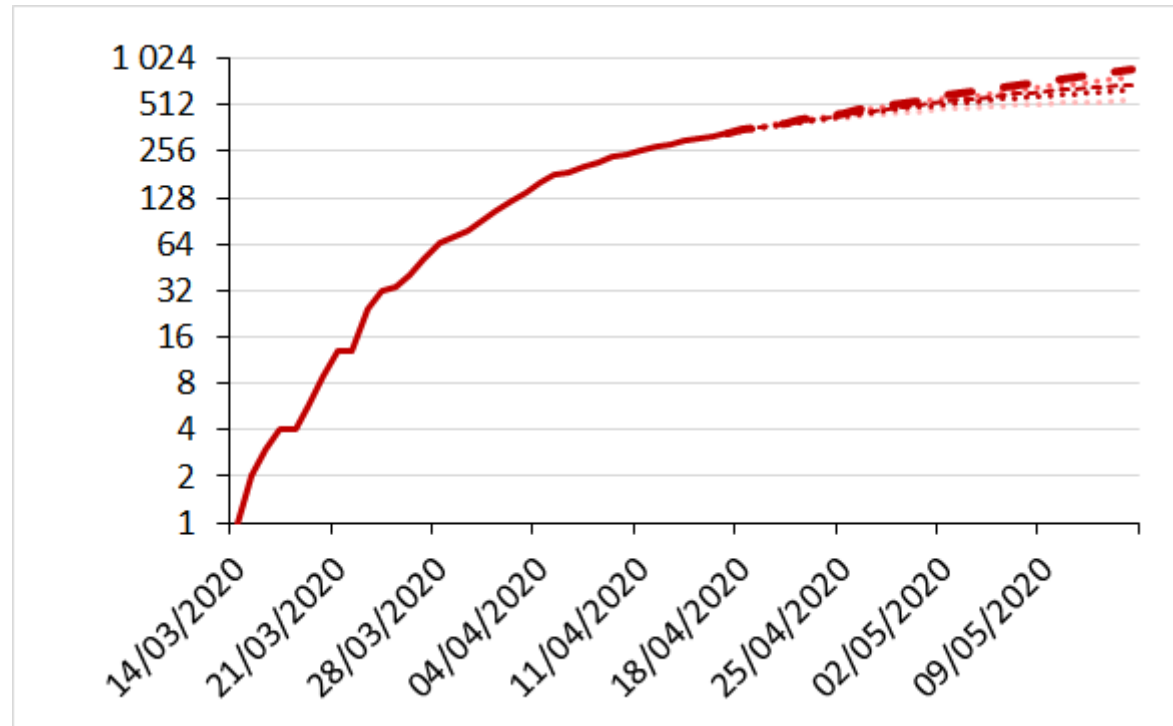


Data: The Johns Hopkins University, Politolog.com

Denmark

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

Cumulated

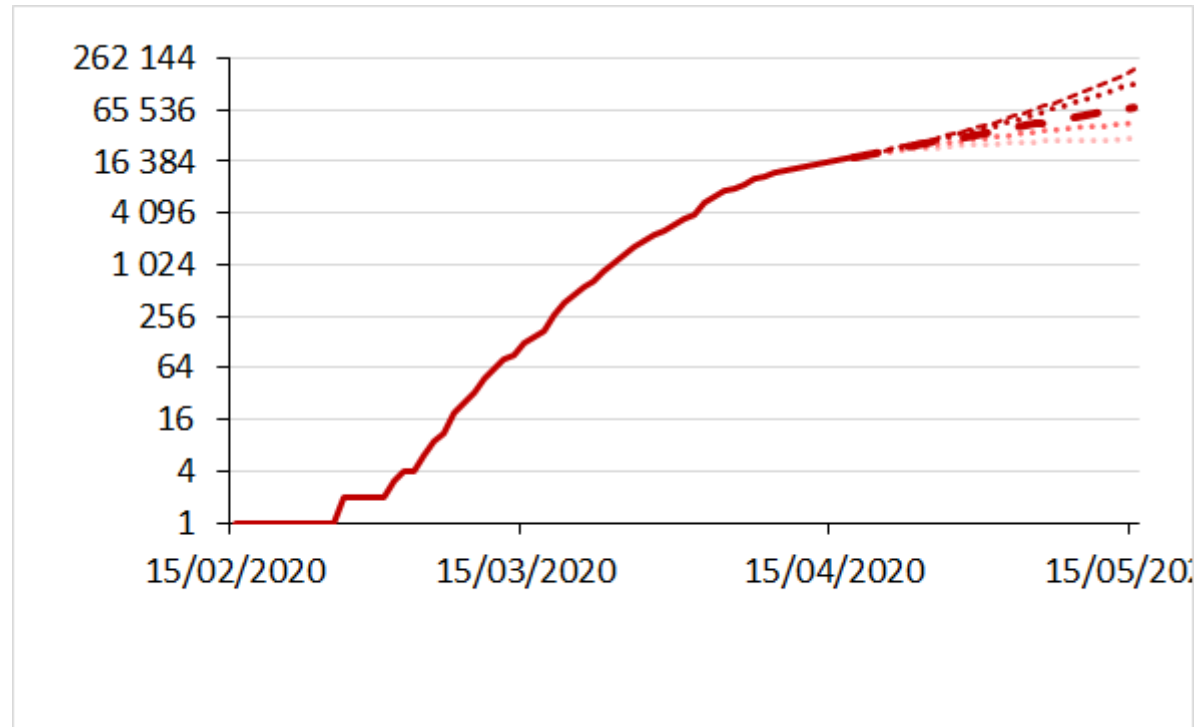


Data: The Johns Hopkins University, Politolog.com

France

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

Cumulated

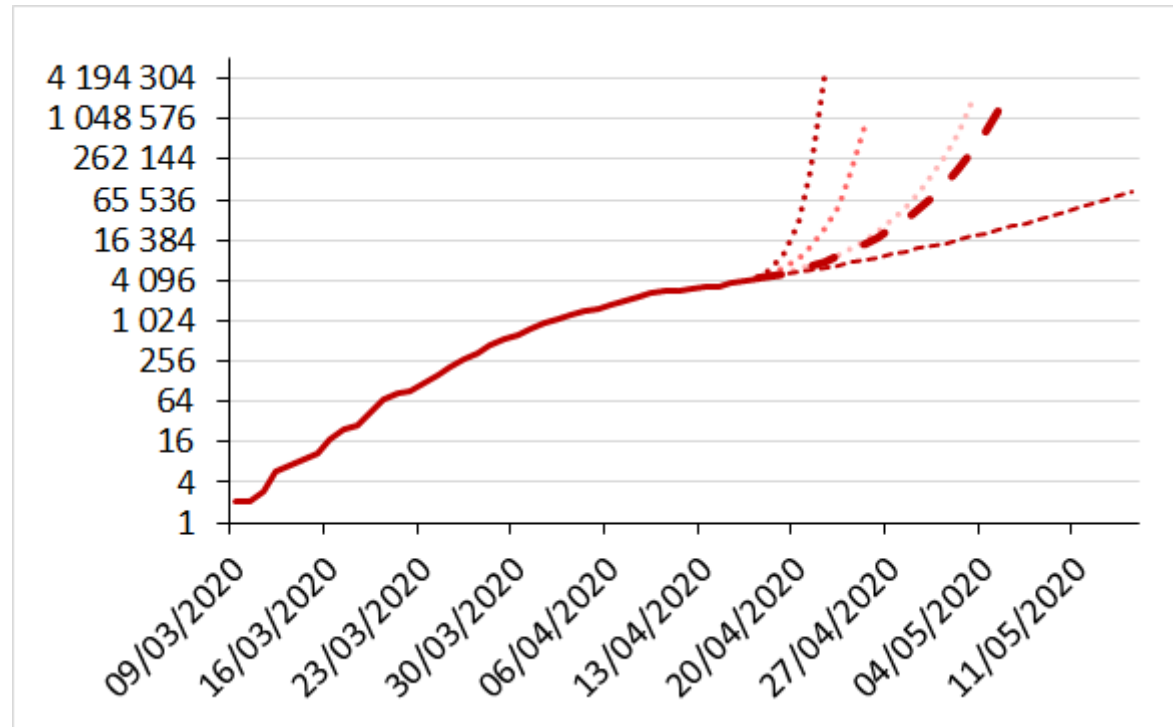


Data: The Johns Hopkins University, Politolog.com

Germany

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

Cumulated

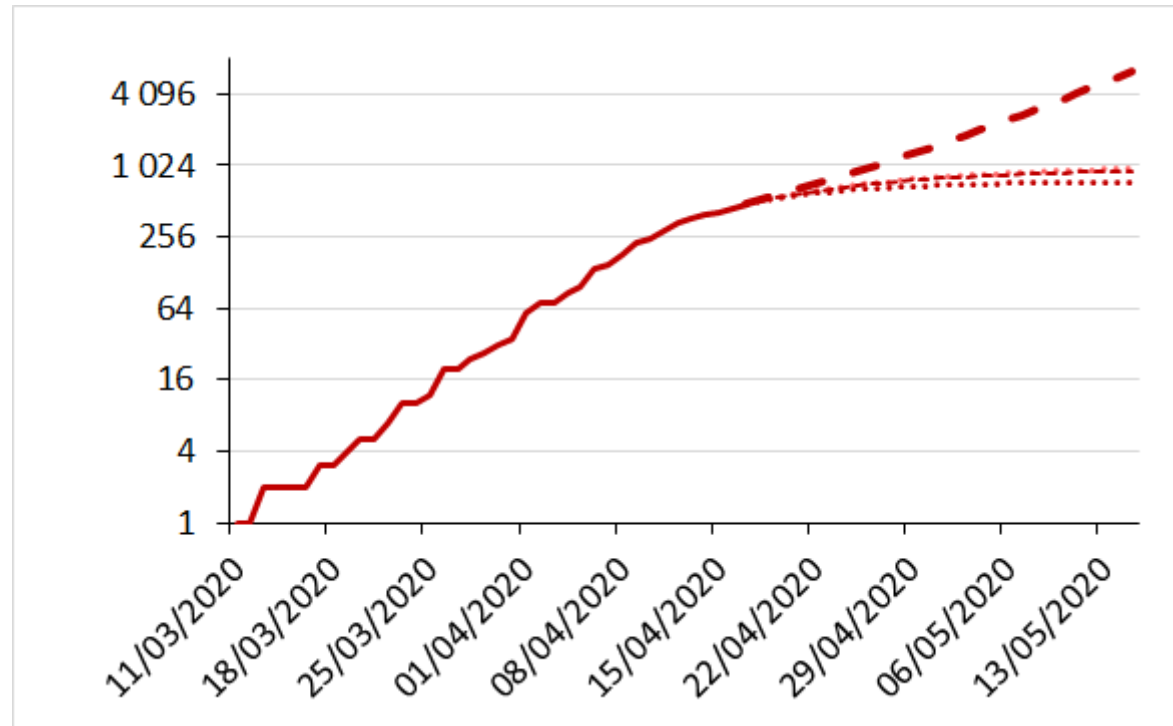


Data: The Johns Hopkins University, Politolog.com

India

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

Cumulated

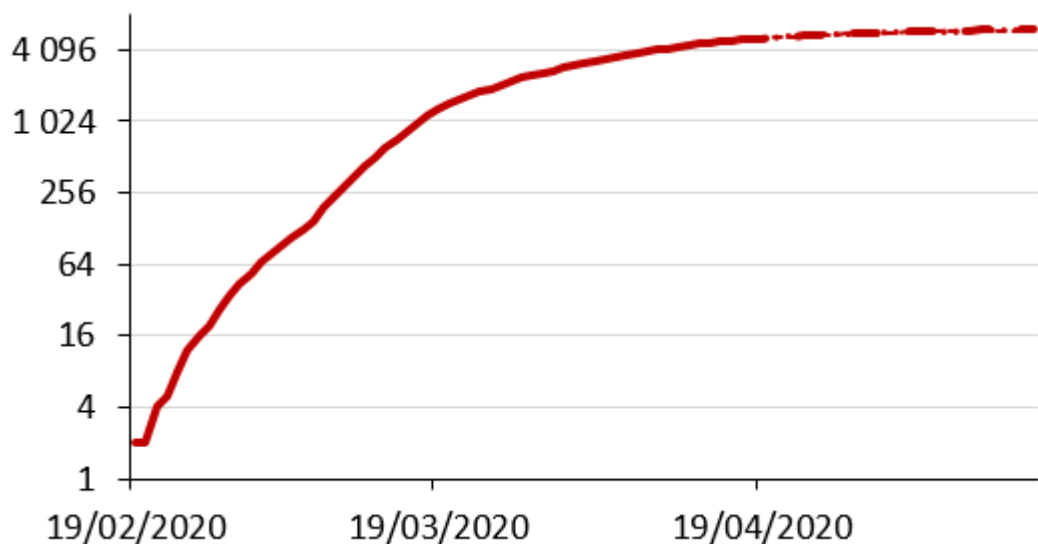


Data: The Johns Hopkins University, Politolog.com

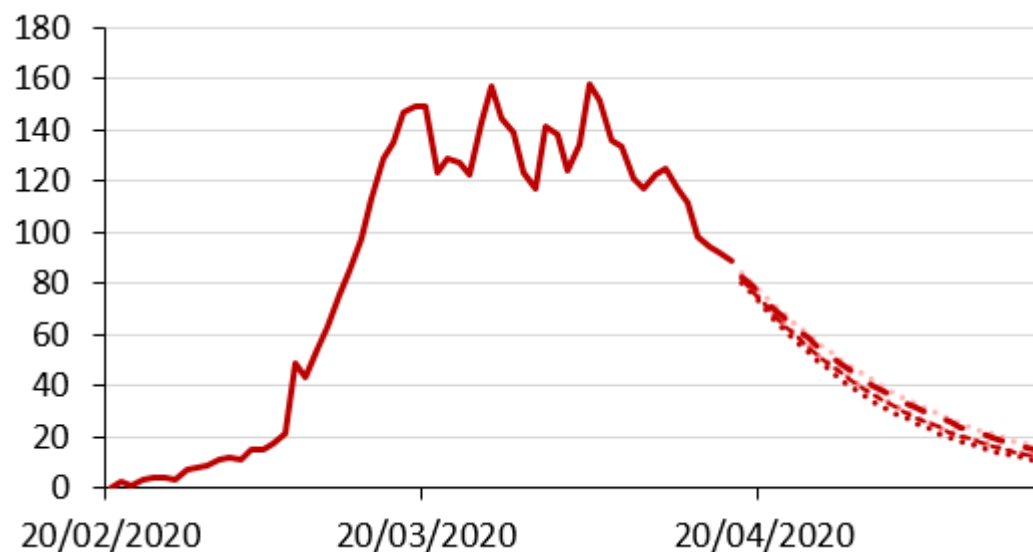
Iran

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

Cumulated



Daily

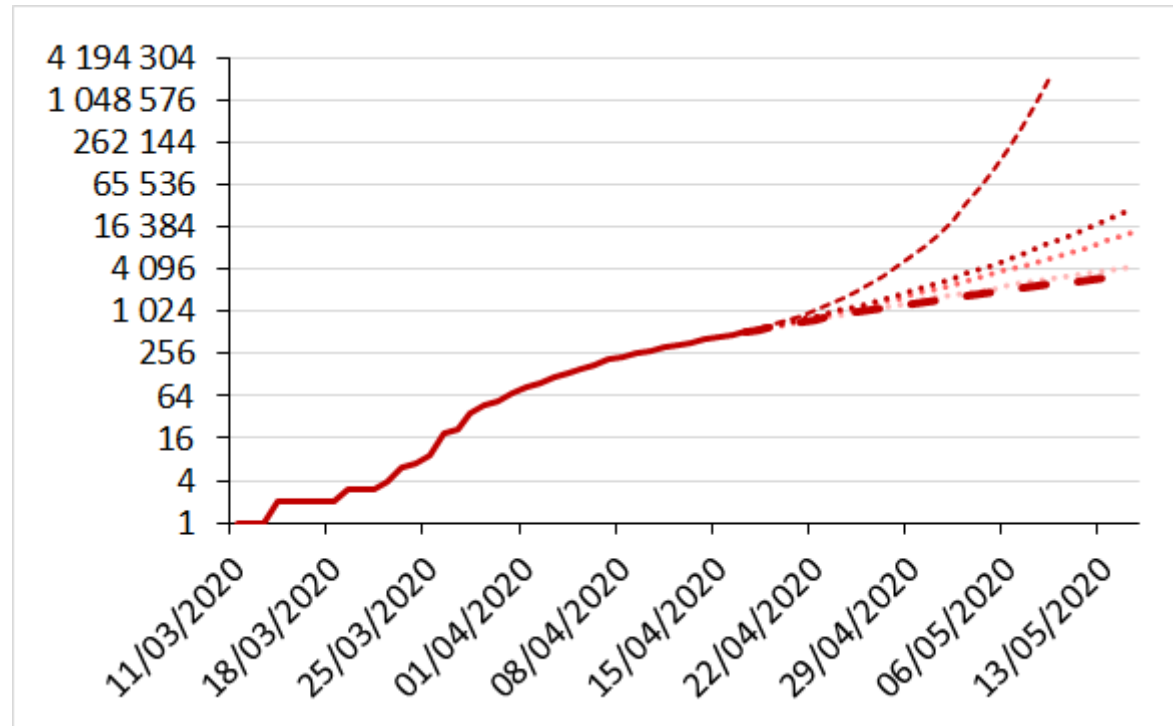


Data: The Johns Hopkins University, Politolog.com

Ireland

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

Cumulated

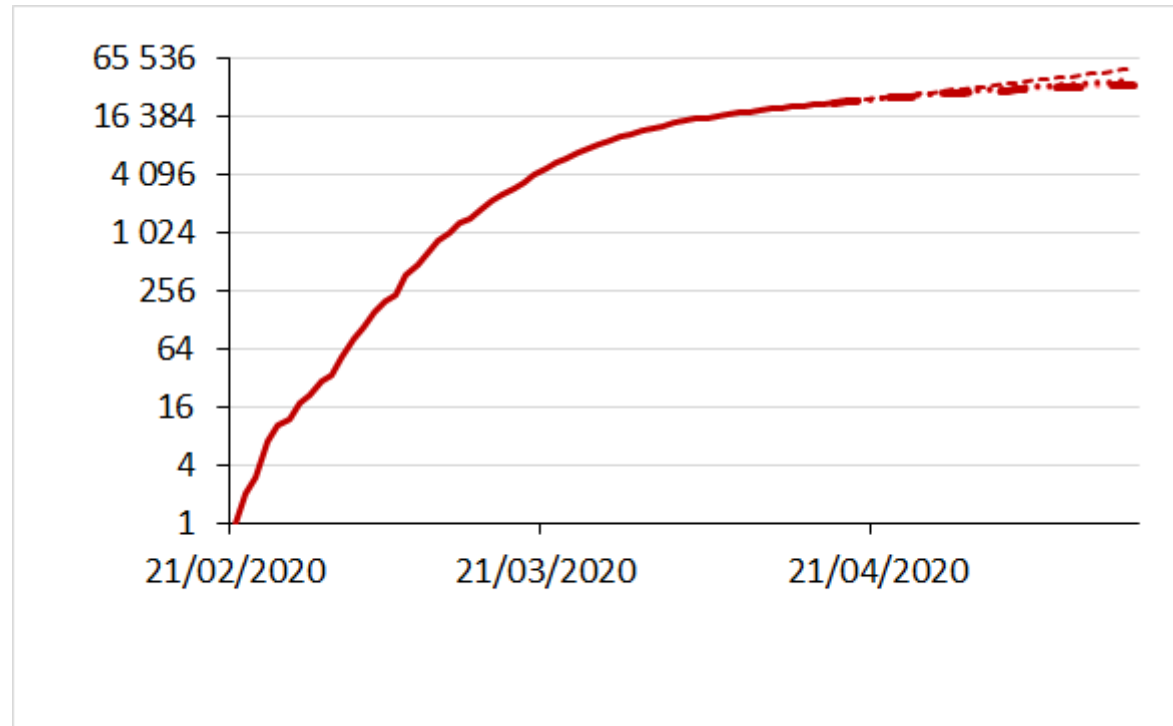


Data: The Johns Hopkins University, Politolog.com

Italy

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

Cumulated

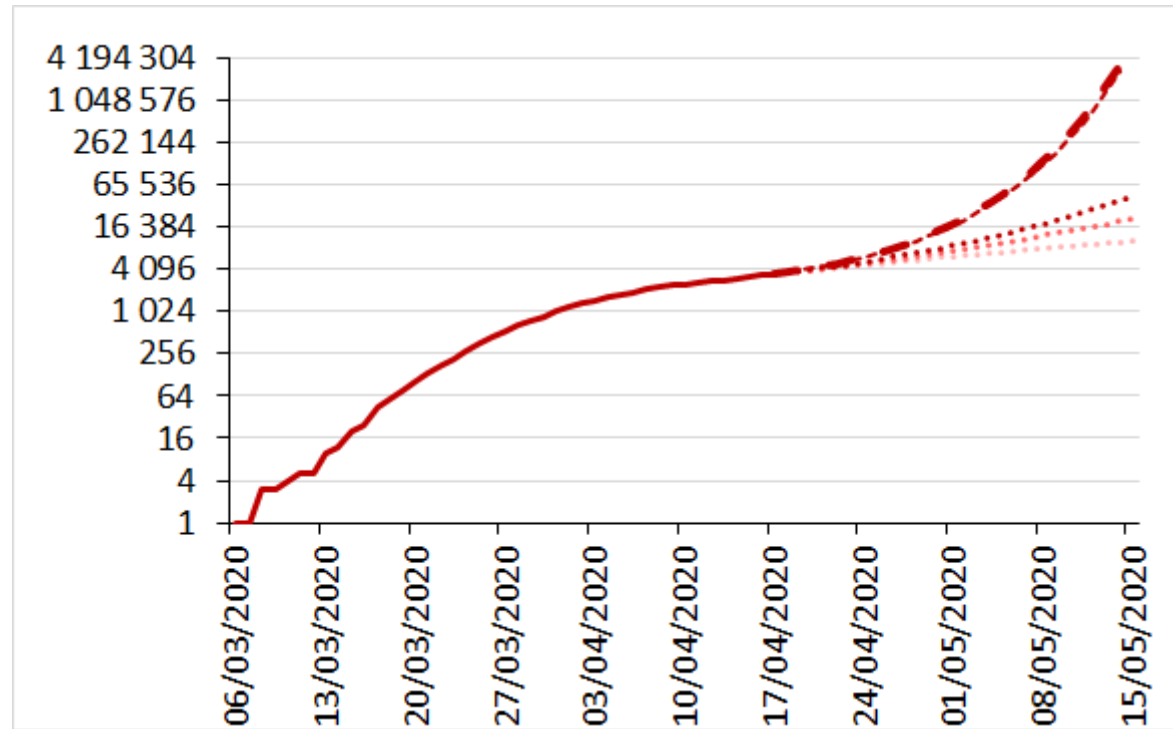


Data: The Johns Hopkins University, Politolog.com

Netherlands

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

Cumulated

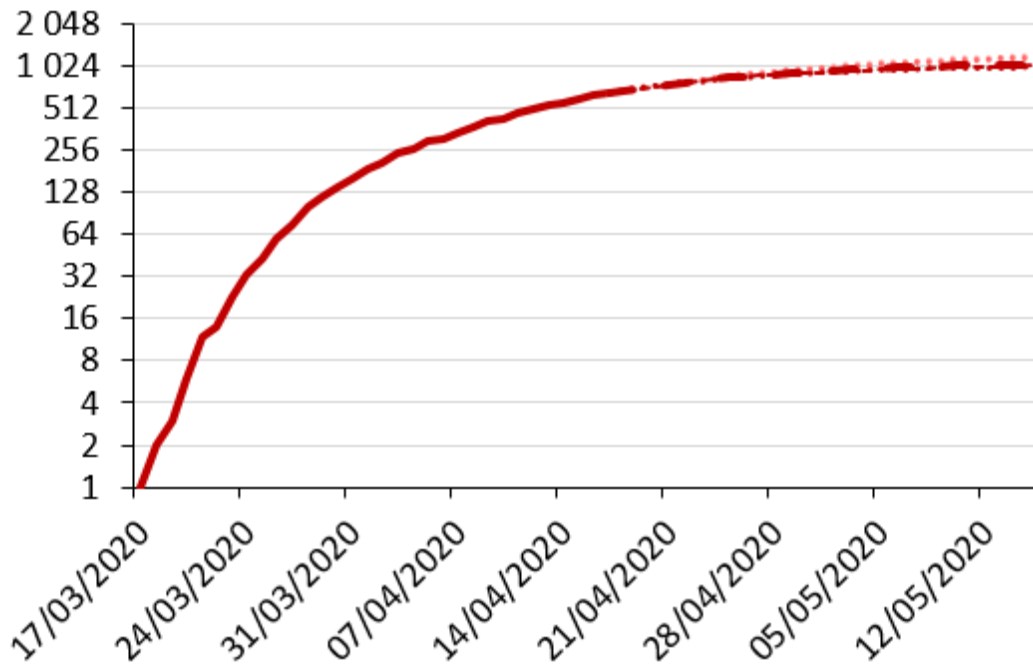


Data: The Johns Hopkins University, Politolog.com

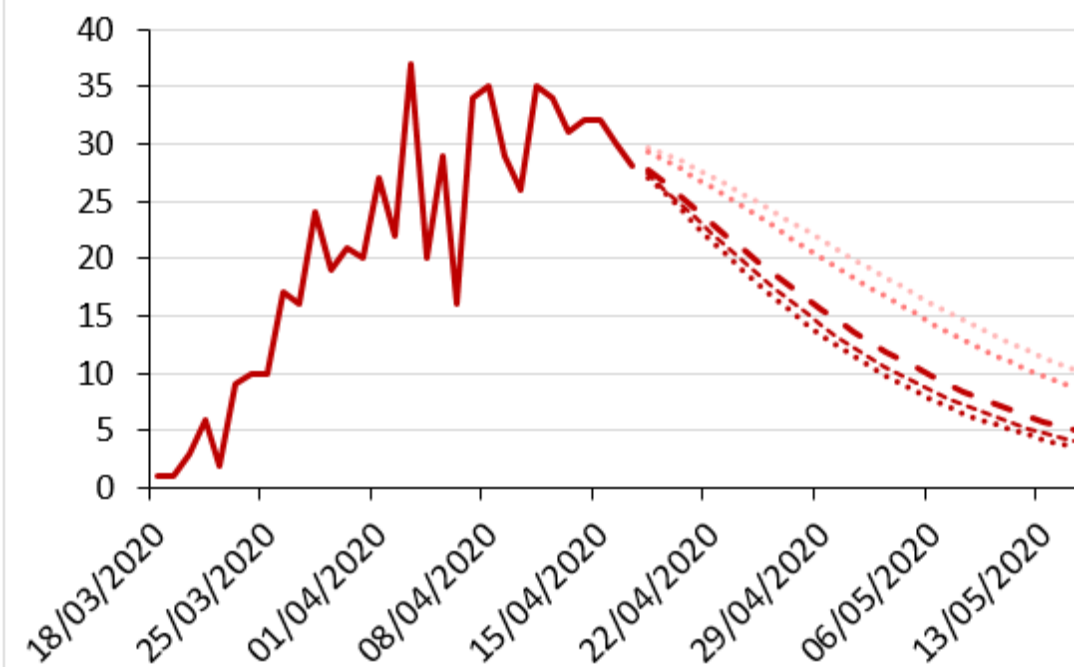
Portugal

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

Cumulated



Daily

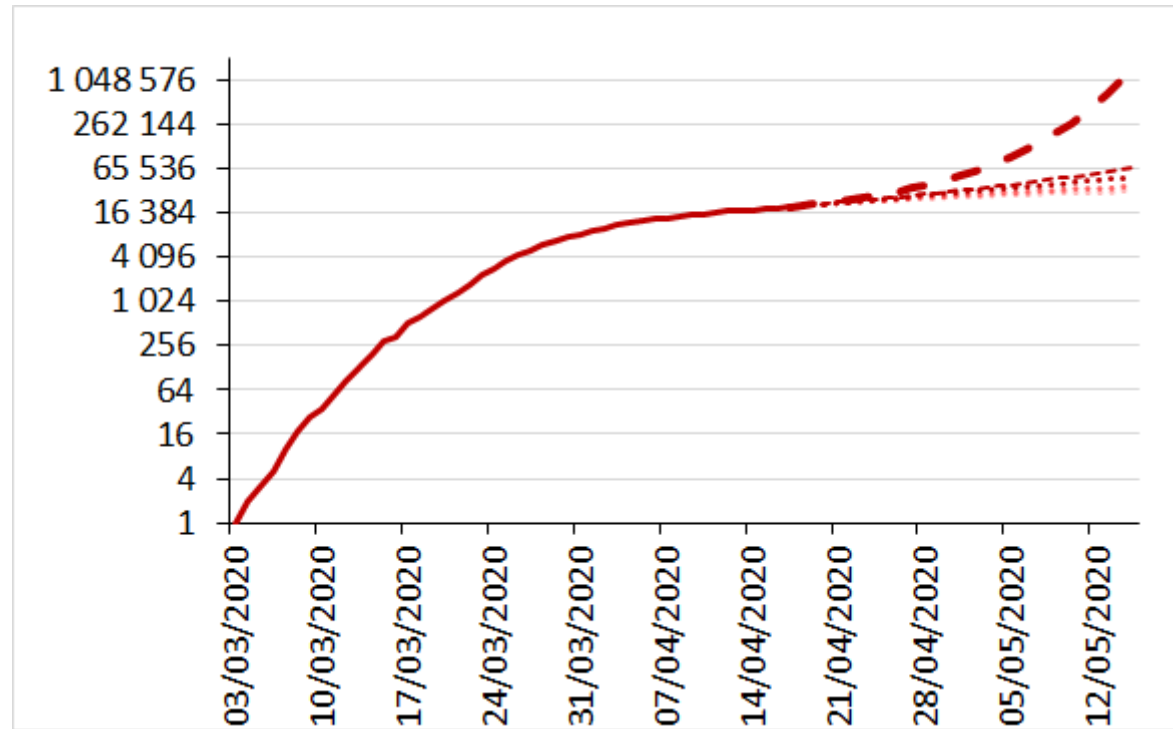


Data: The Johns Hopkins University, Politolog.com

Spain

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

Cumulated

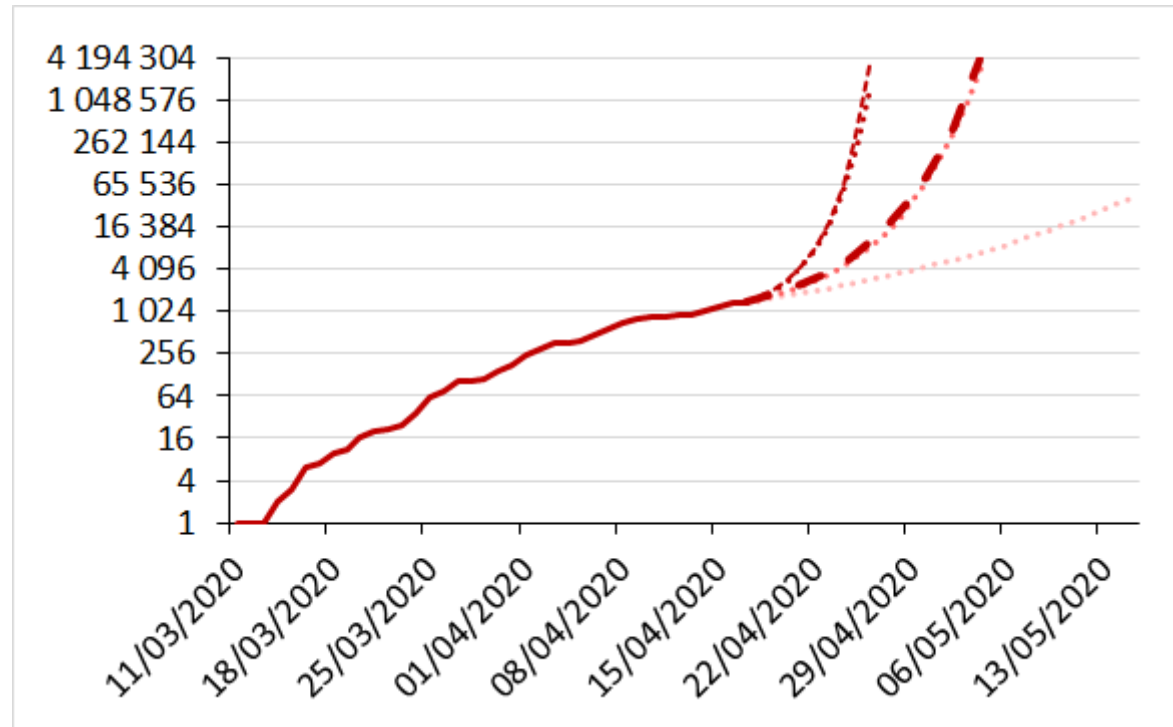


Data: The Johns Hopkins University, Politolog.com

Sweden

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

Cumulated

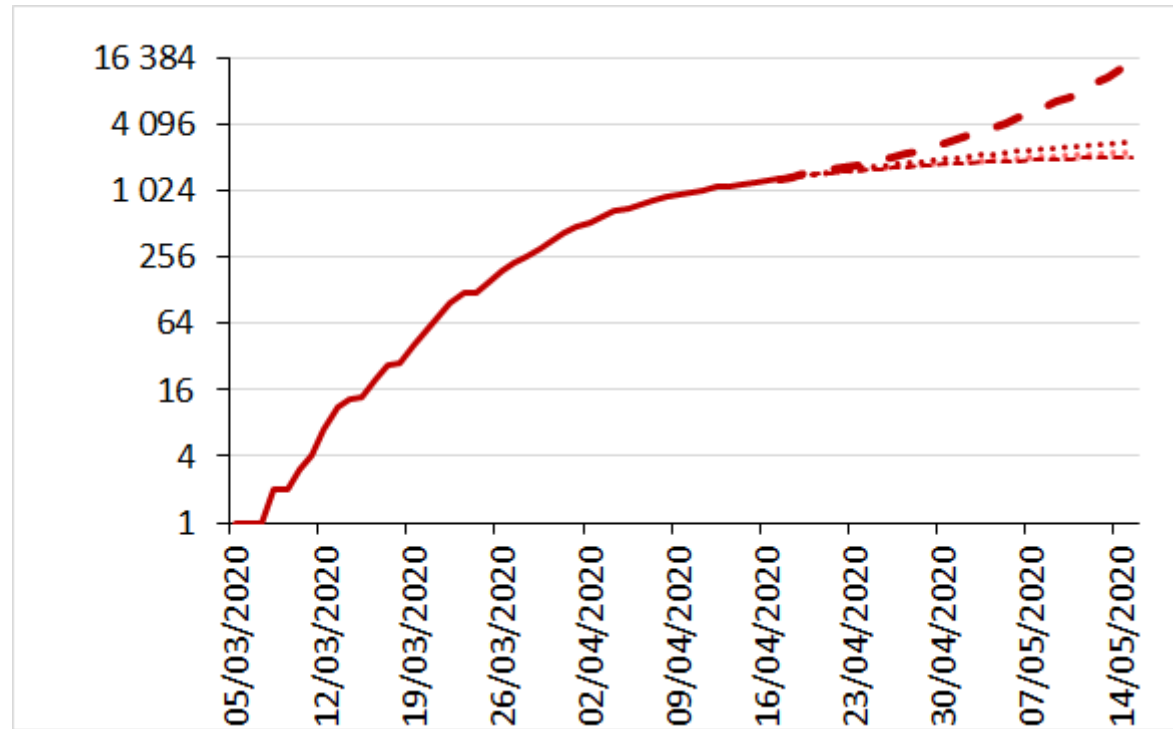


Data: The Johns Hopkins University, Politolog.com

Switzerland

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

Cumulated

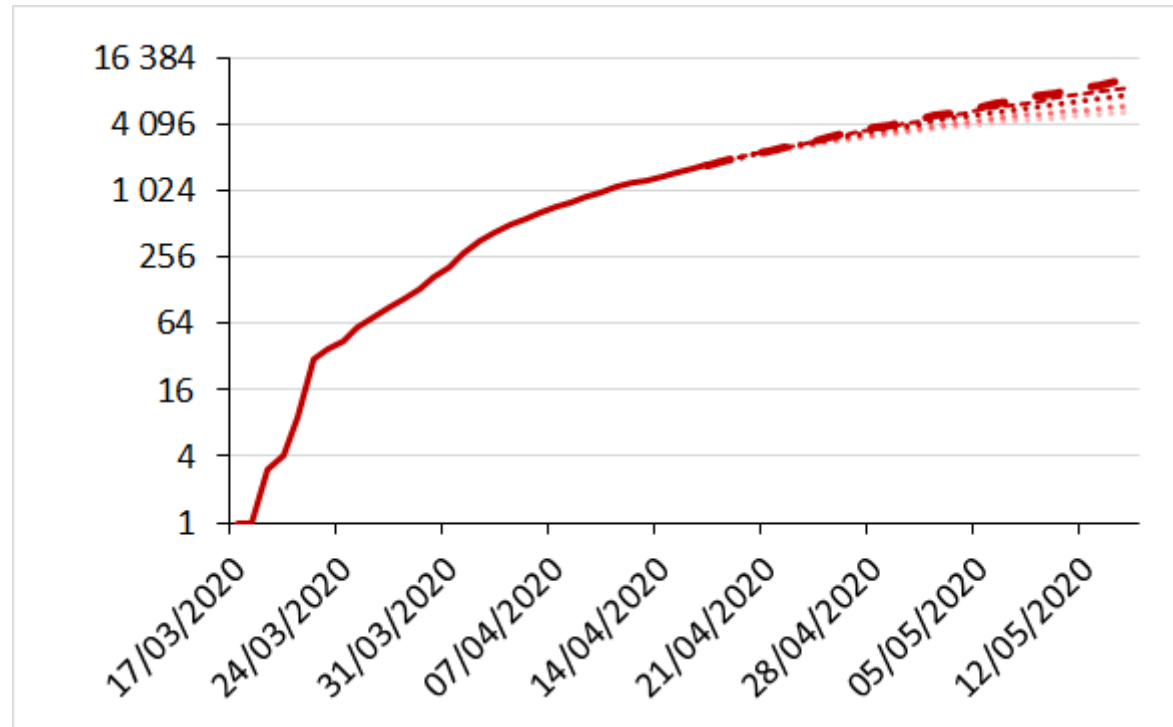


Data: The Johns Hopkins University, Politolog.com

Turkey

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

Cumulated

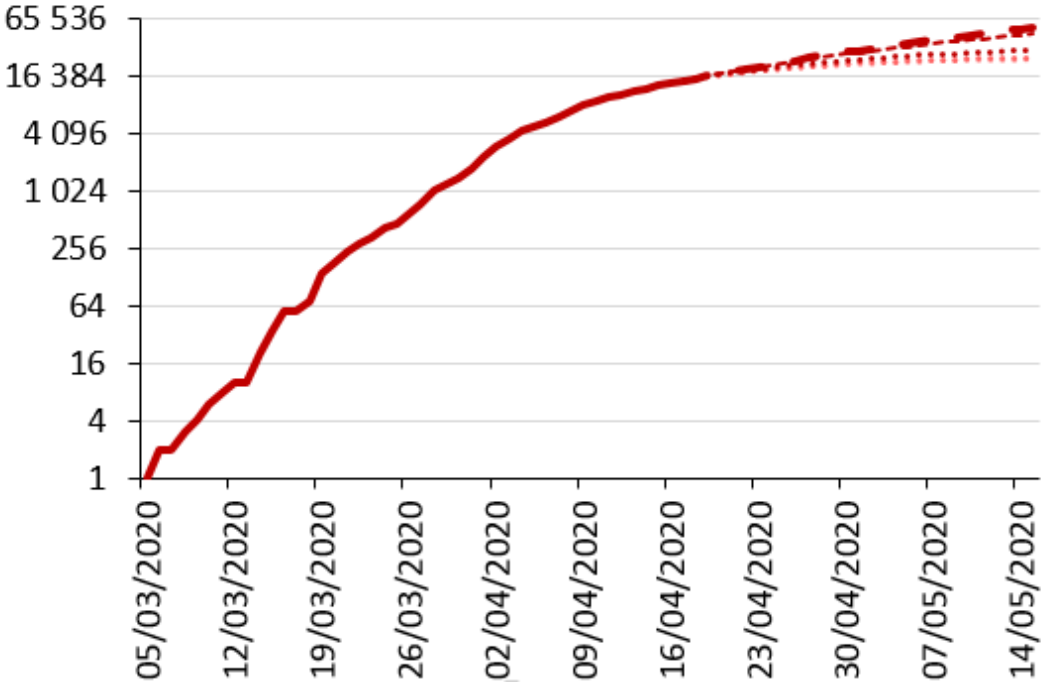


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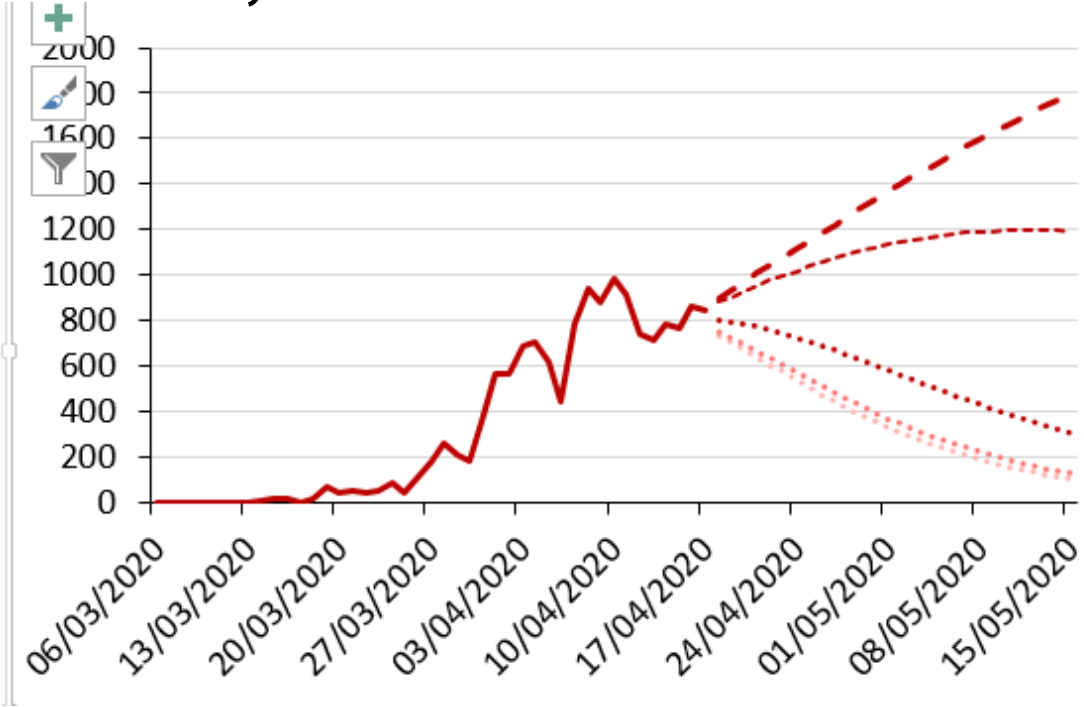
United Kingdom

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

Cumulated



Daily

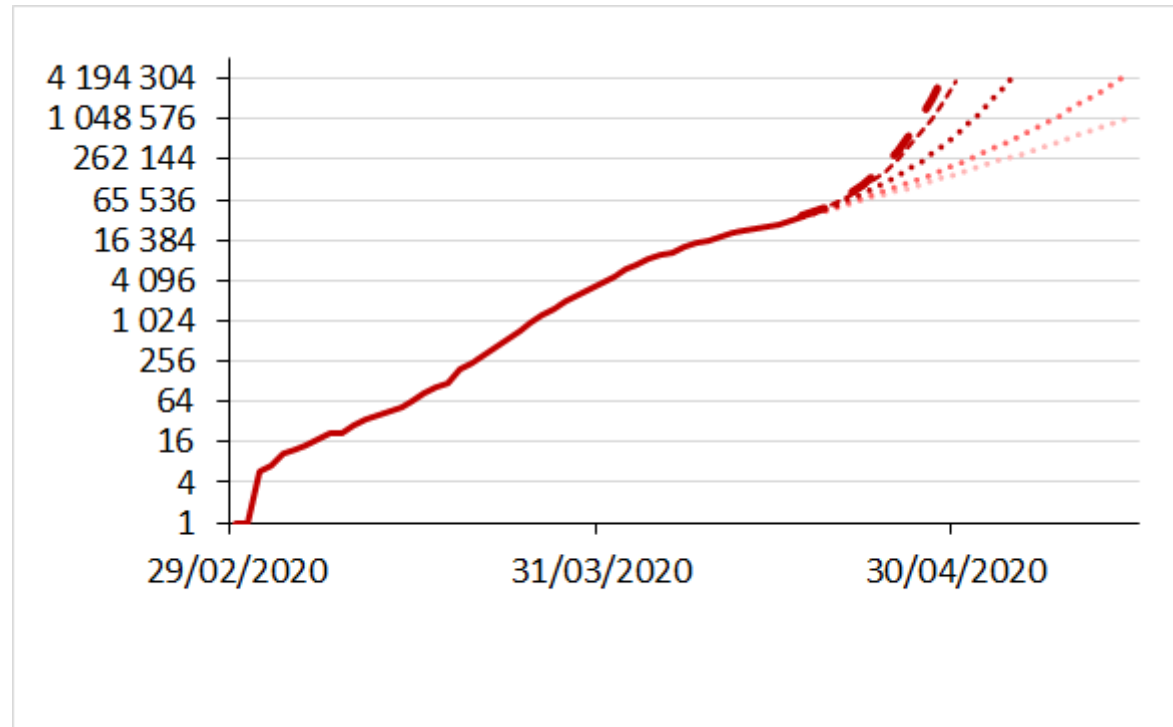


Data: The Johns Hopkins University, Politolog.com

USA

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

Cumulated



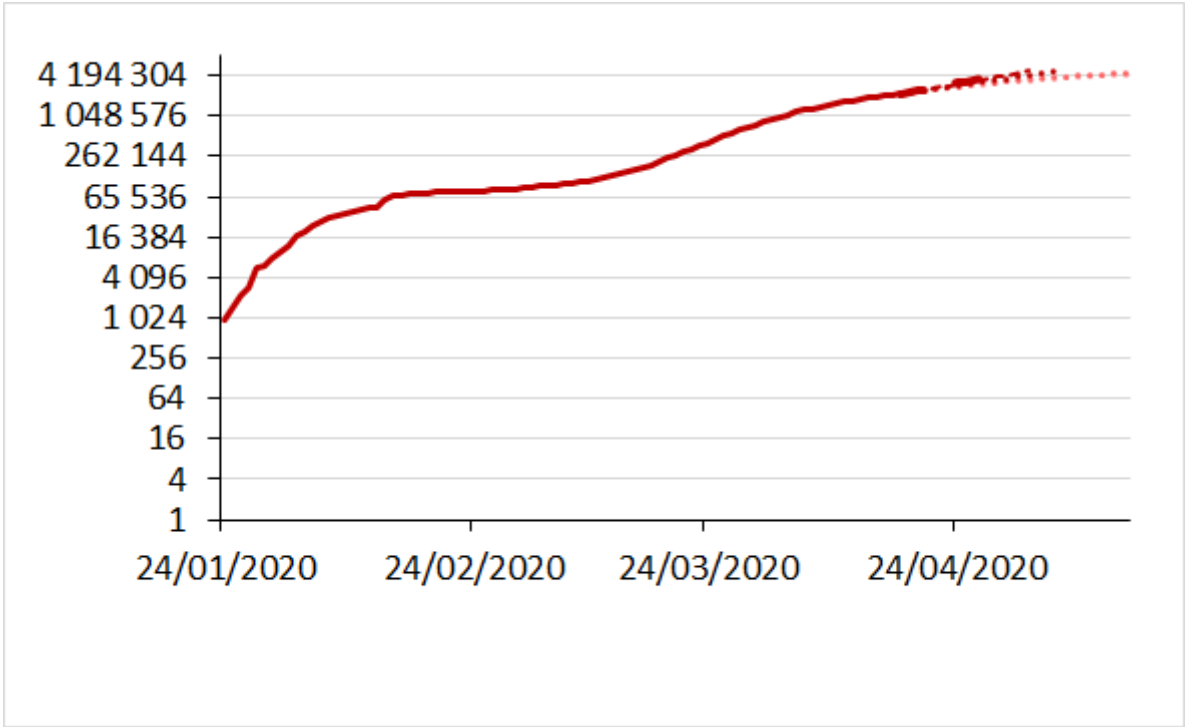
Data: The Johns Hopkins University, Politolog.com

CUMULATED CASES - PROJECTIONS

World

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

Cumulated

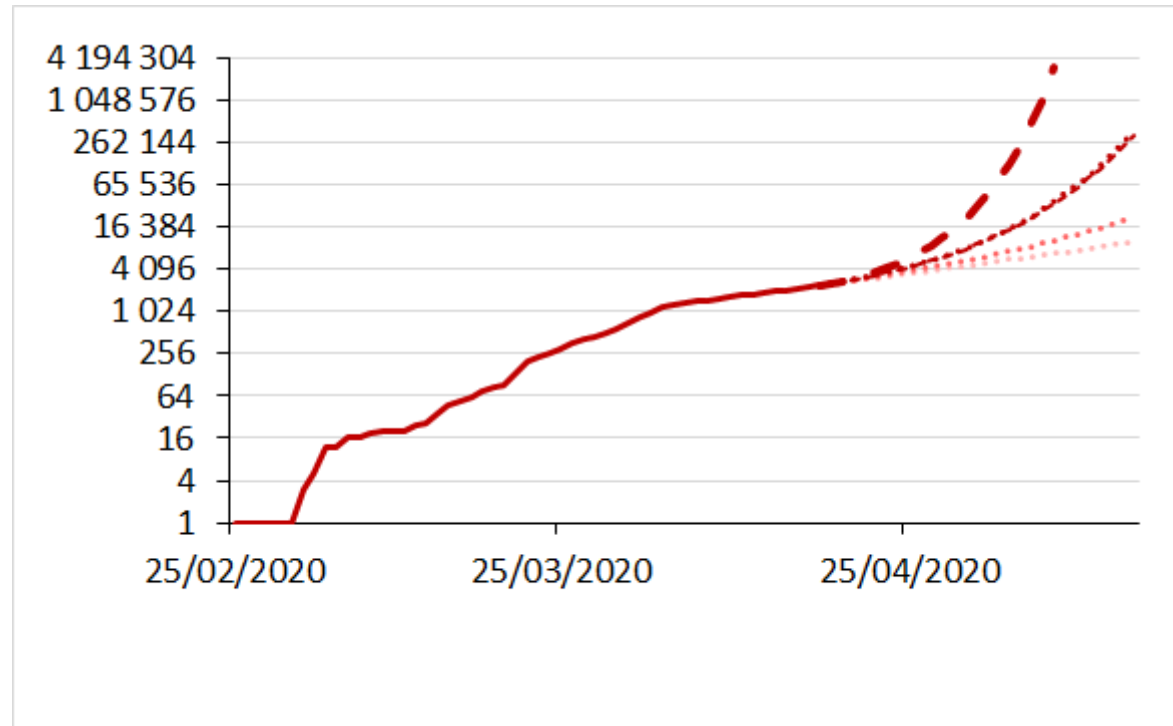


Data: The Johns Hopkins University, Politolog.com

Algeria

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

Cumulated

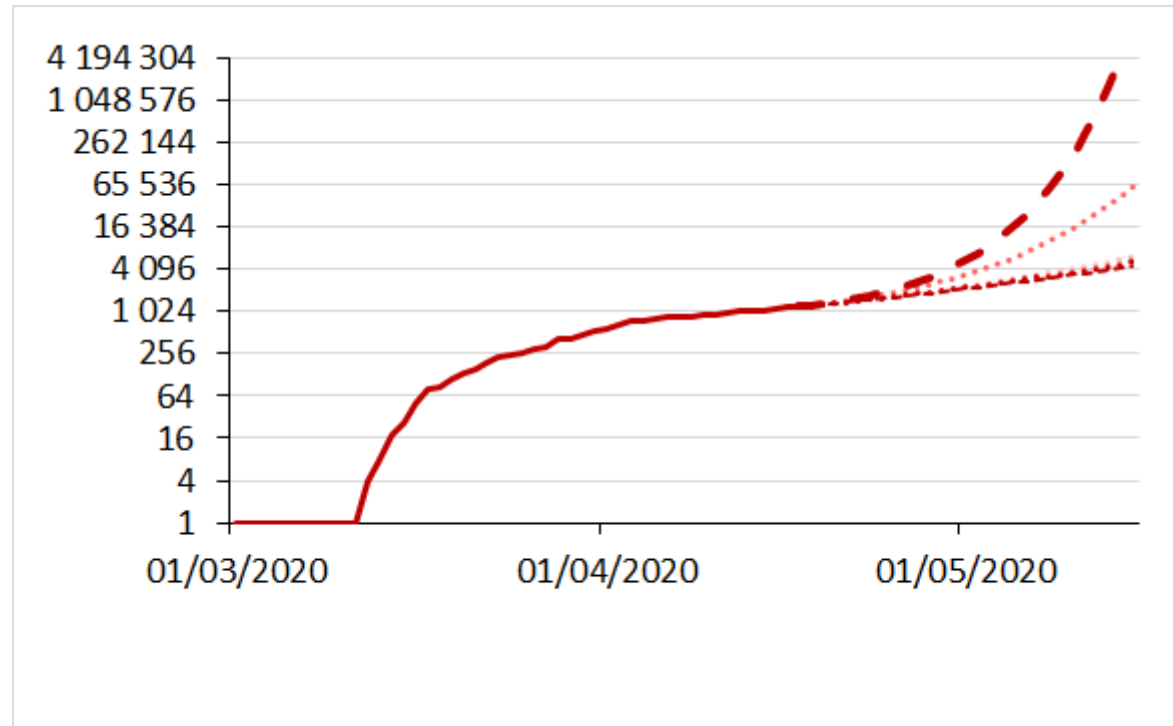


Data: The Johns Hopkins University, Politolog.com

Armenia

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

Cumulated

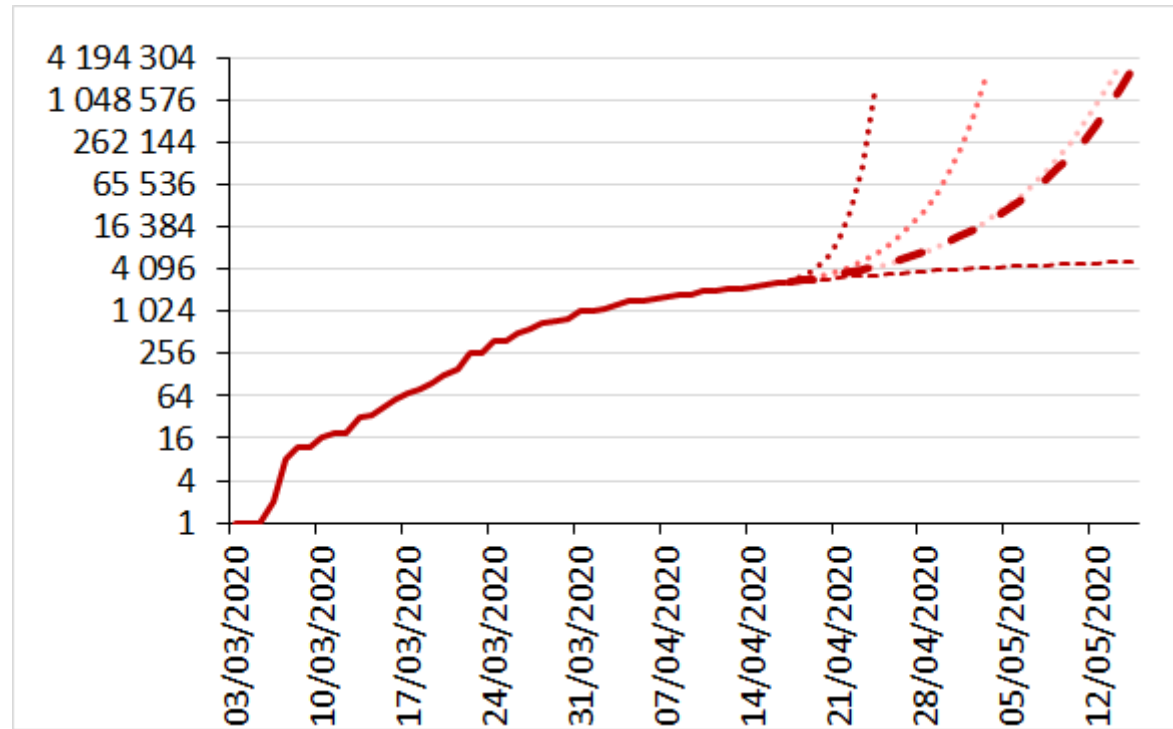


Data: The Johns Hopkins University, Politolog.com

Argentina

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

Cumulated

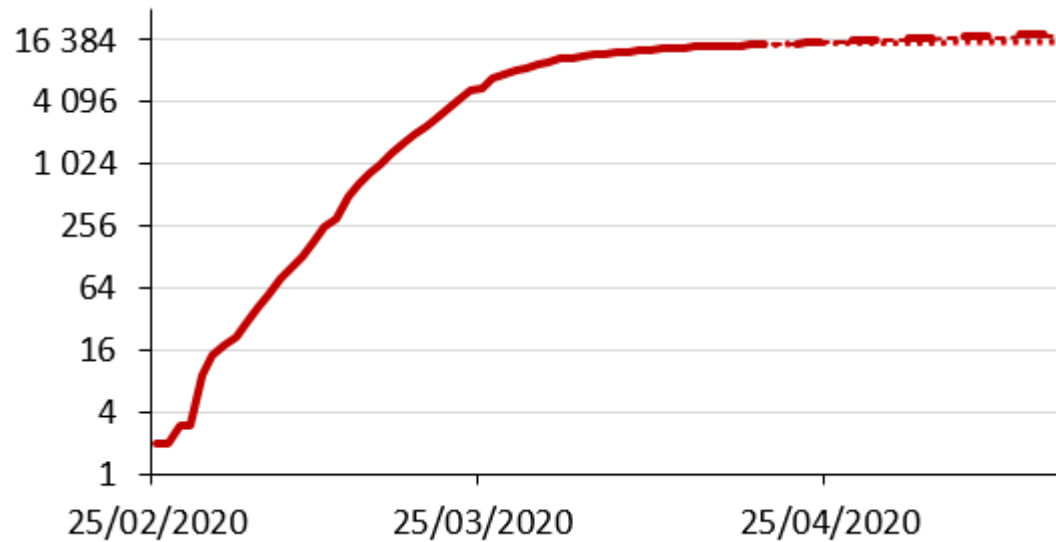


Data: The Johns Hopkins University, Politolog.com

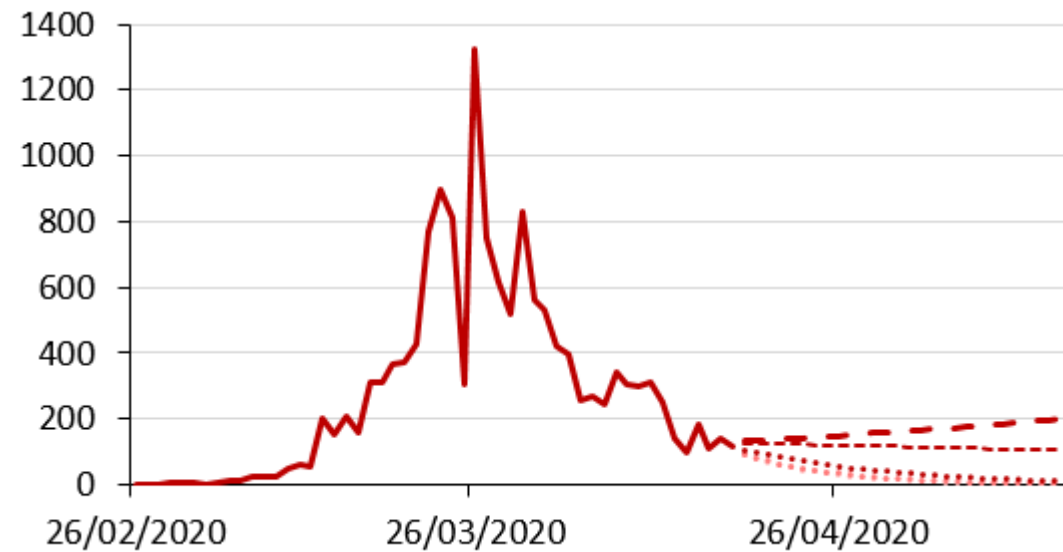
Austria

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

Cumulated



Daily

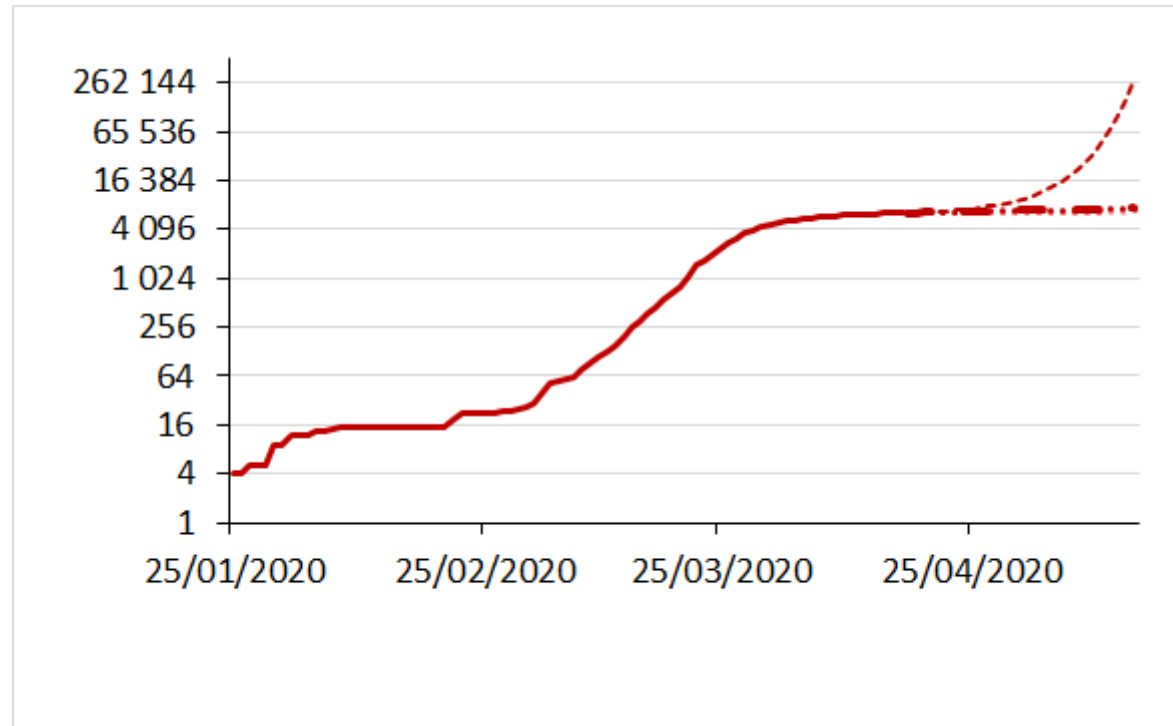


Data: The Johns Hopkins University, Politolog.com

Australia

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

Cumulated

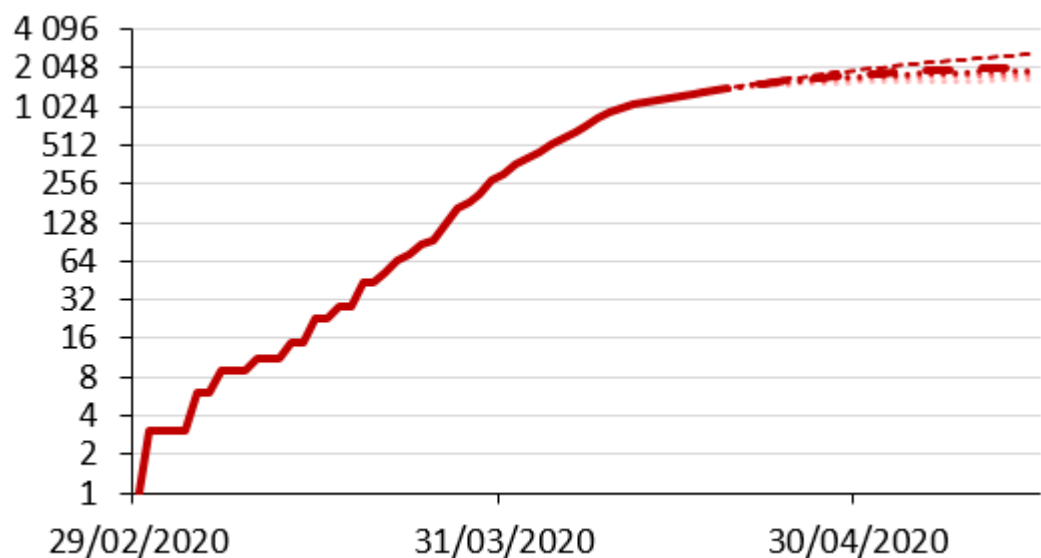


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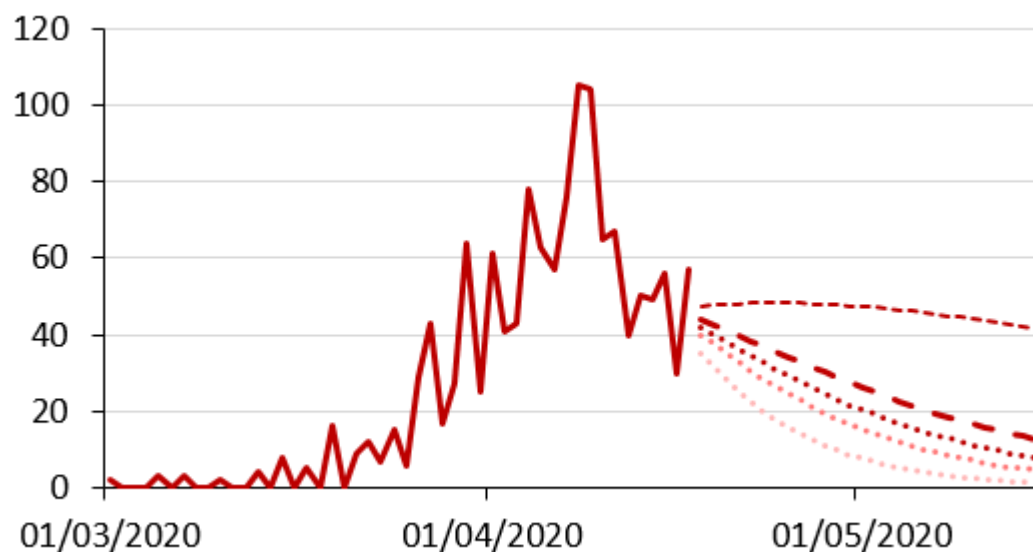
Azerbaijan

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

Cumulated



Daily

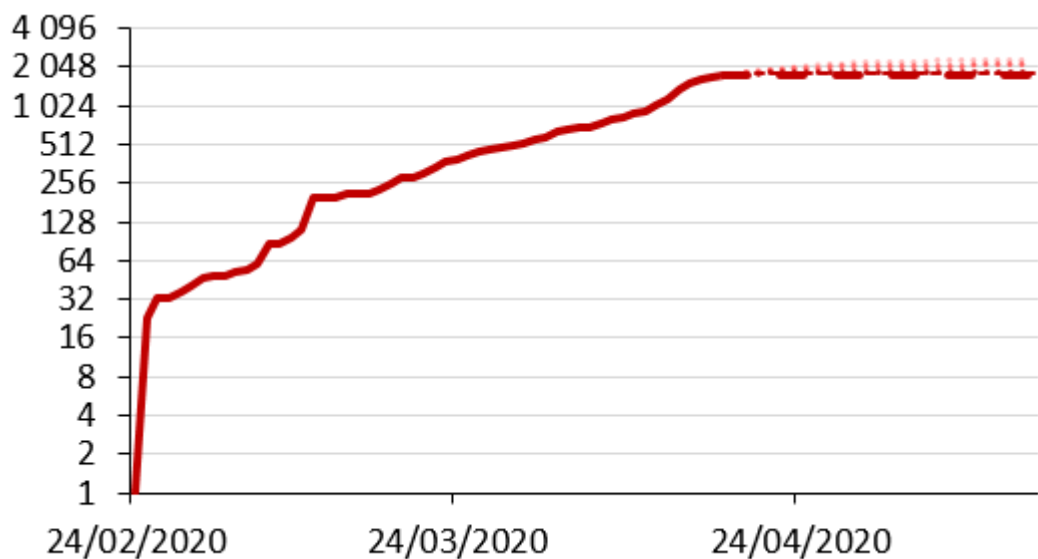


Data: The Johns Hopkins University, Politolog.com

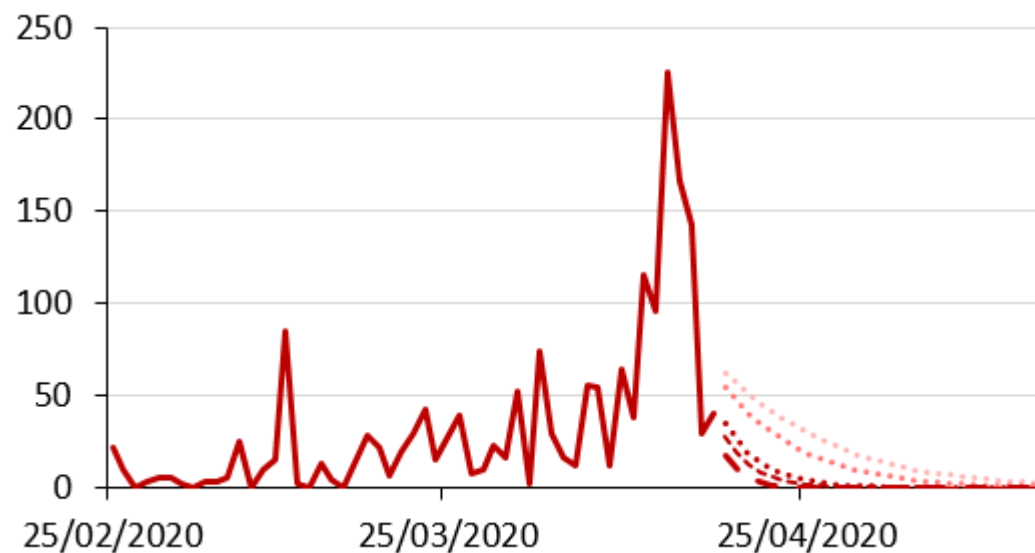
Bahrain

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

Cumulated



Daily

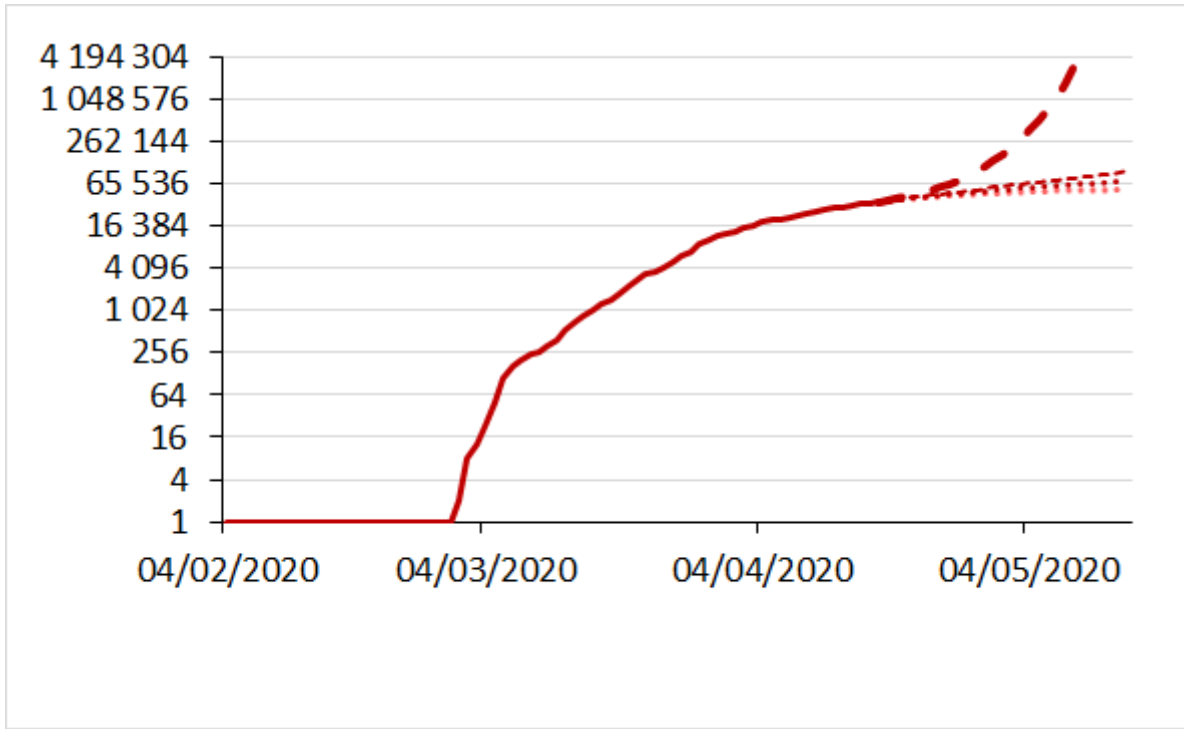


Data: The Johns Hopkins University, Politolog.com

Belgium

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

Cumulated

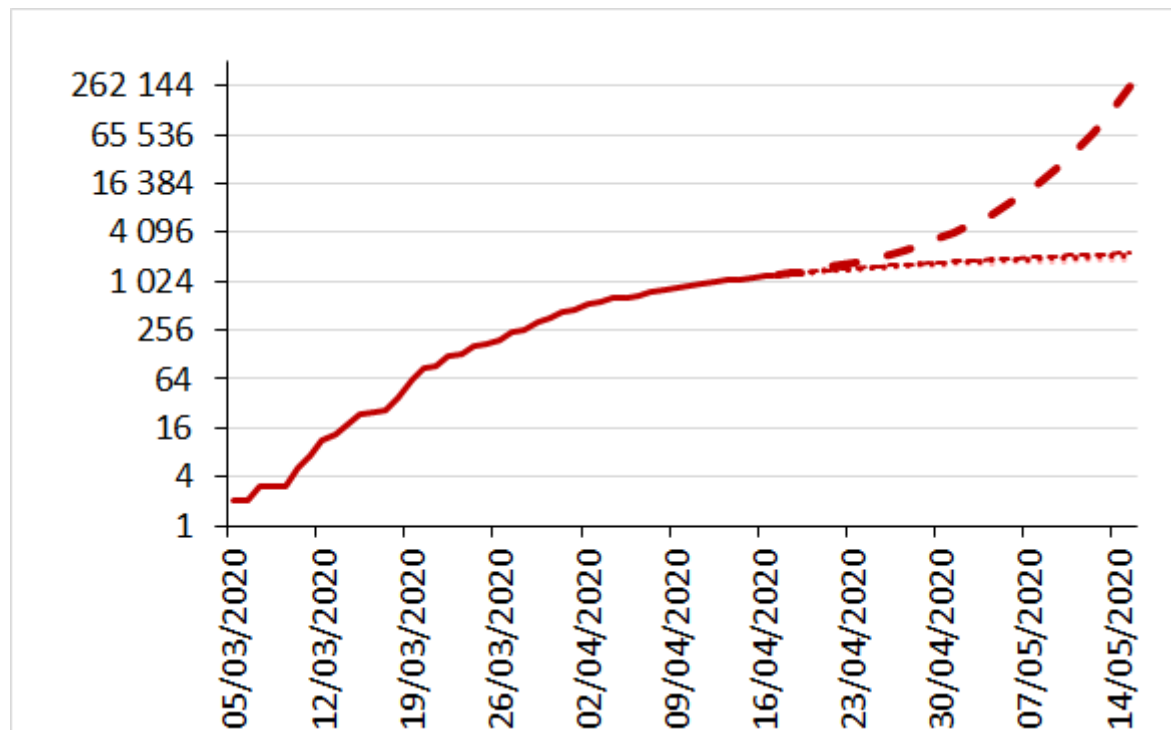


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Bosnia and Herzegovina

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

Cumulated

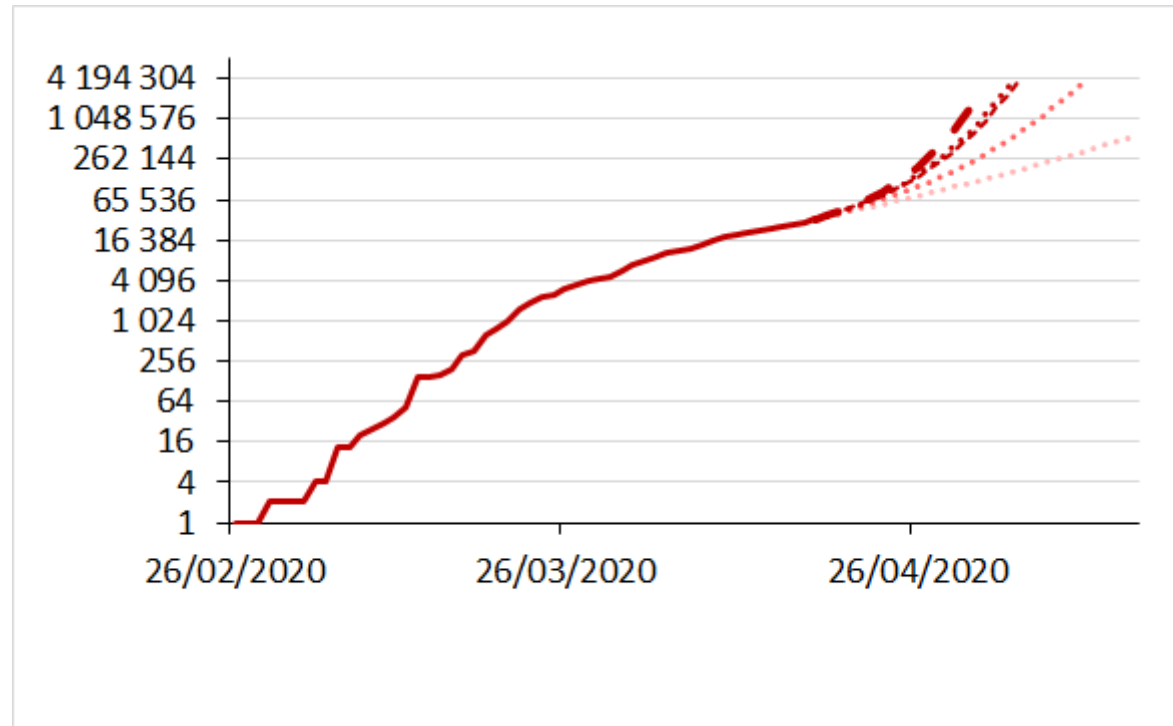


Data: The Johns Hopkins University, Politolog.com

Brazil

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

Cumulated

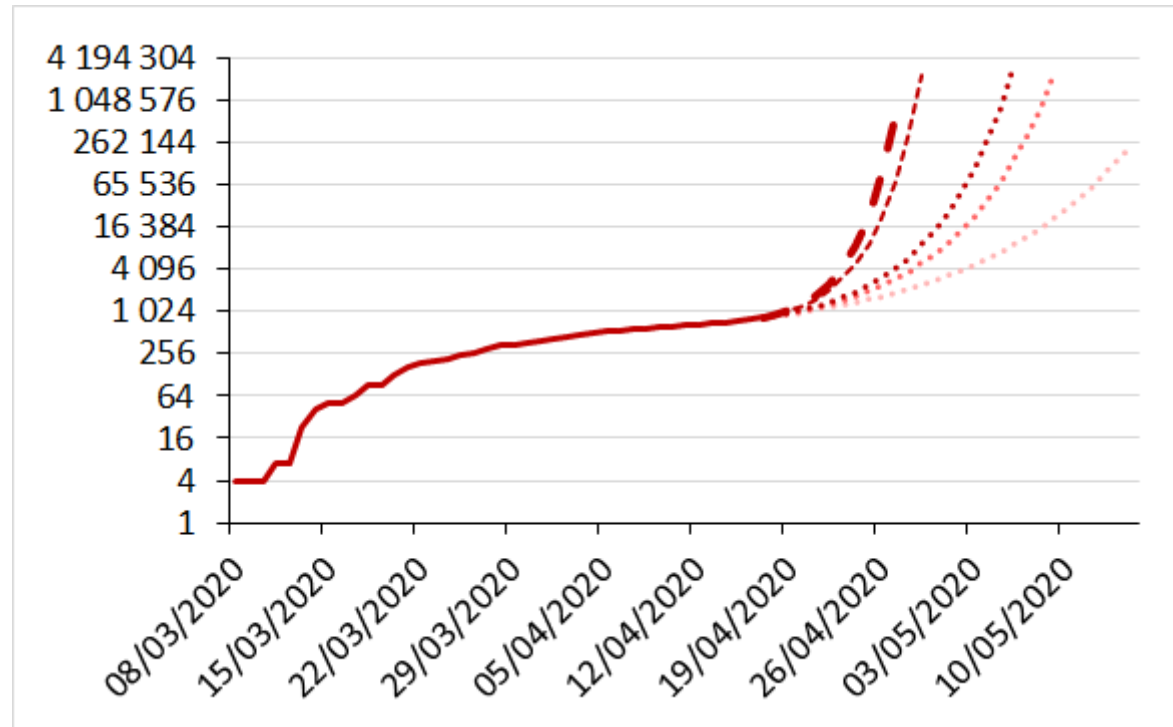


Data: The Johns Hopkins University, Politolog.com

Bulgaria

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

Cumulated

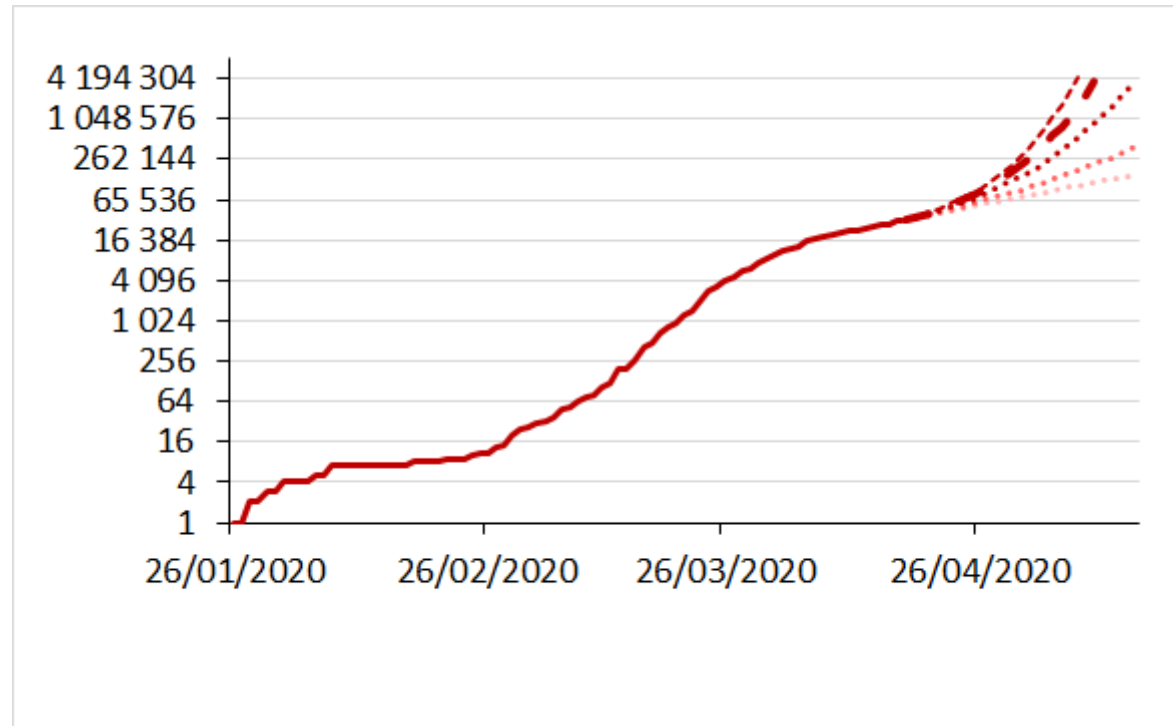


Data: The Johns Hopkins University, Politolog.com

Canada

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

Cumulated

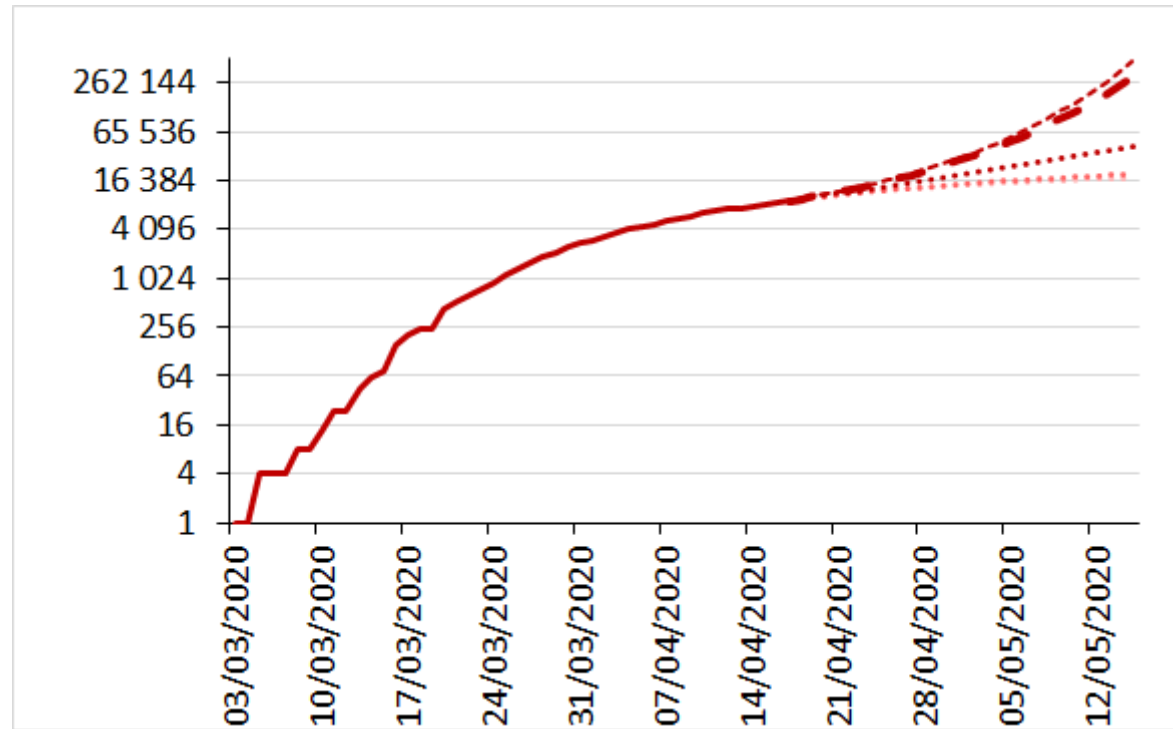


Data: The Johns Hopkins University, Politolog.com

Chile

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

Cumulated

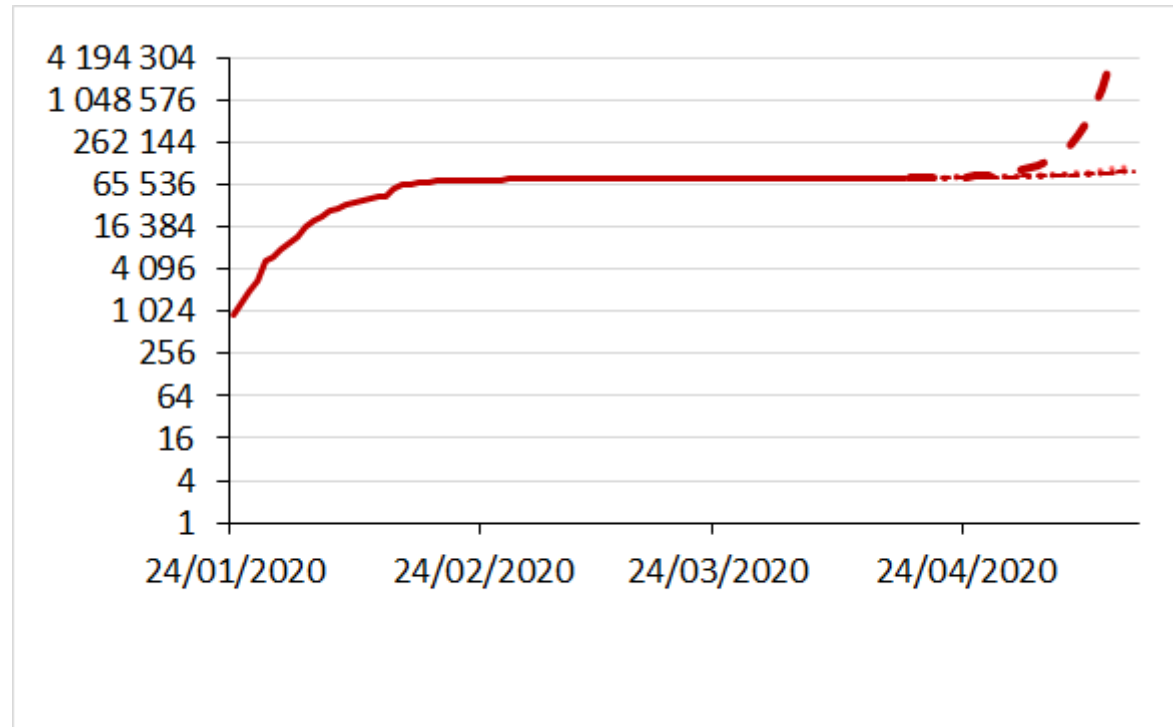


Data: The Johns Hopkins University, Politolog.com

China

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

Cumulated

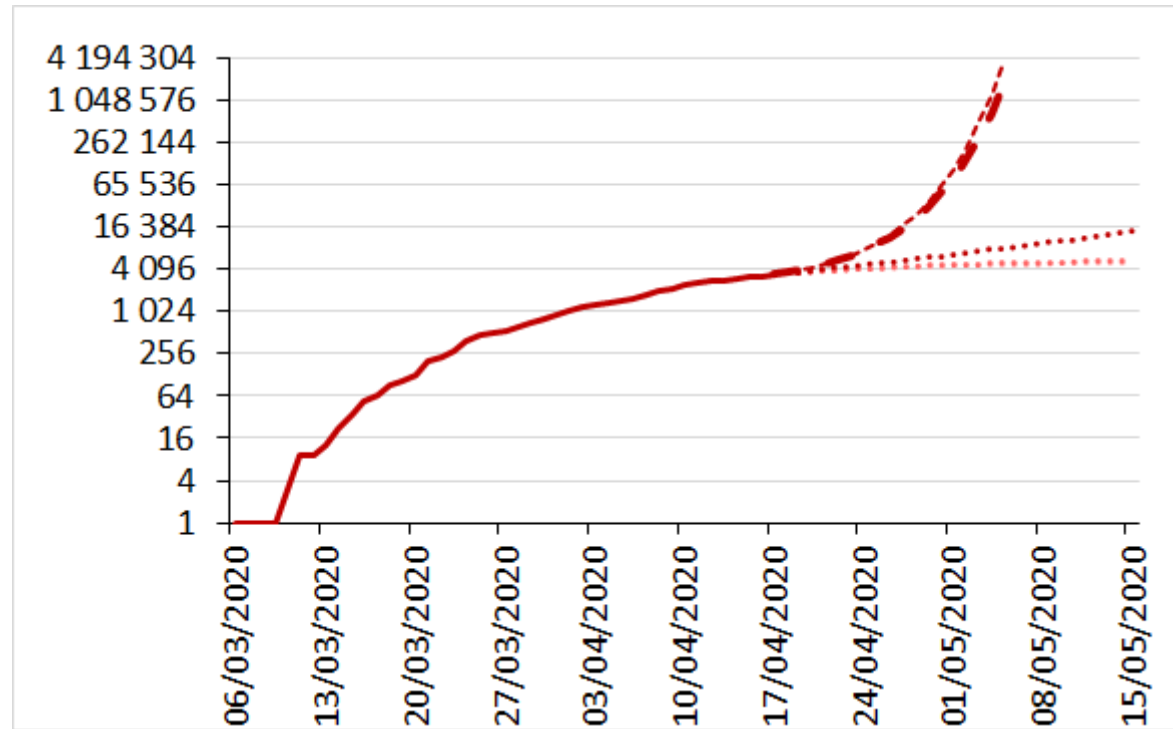


Data: The Johns Hopkins University, Politolog.com

Colombia

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

Cumulated

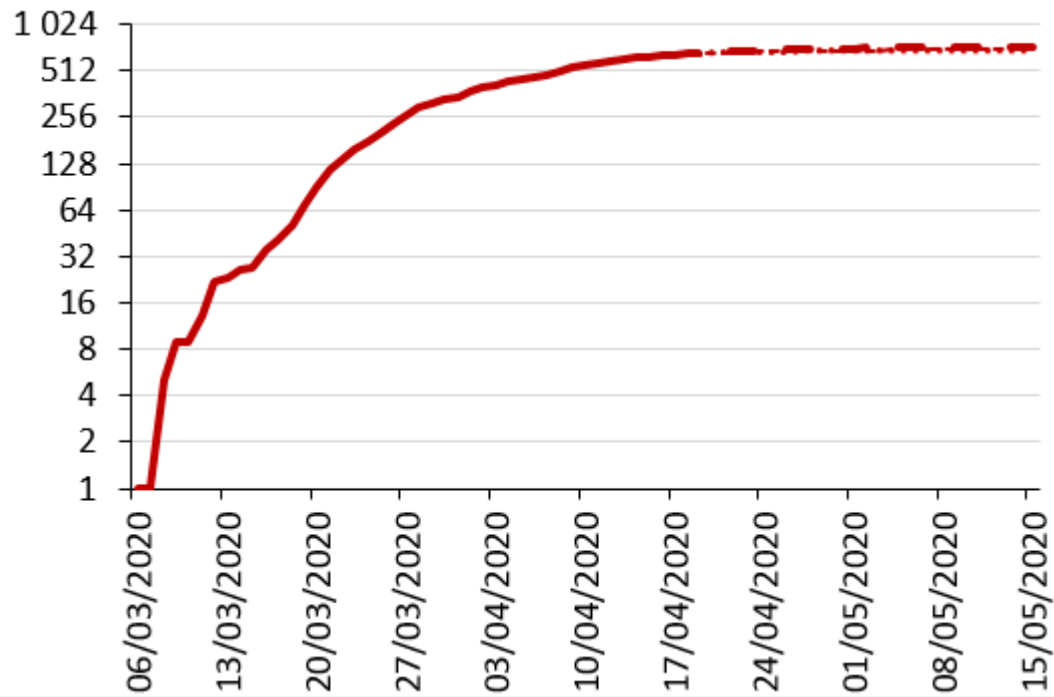


Data: The Johns Hopkins University, Politolog.com

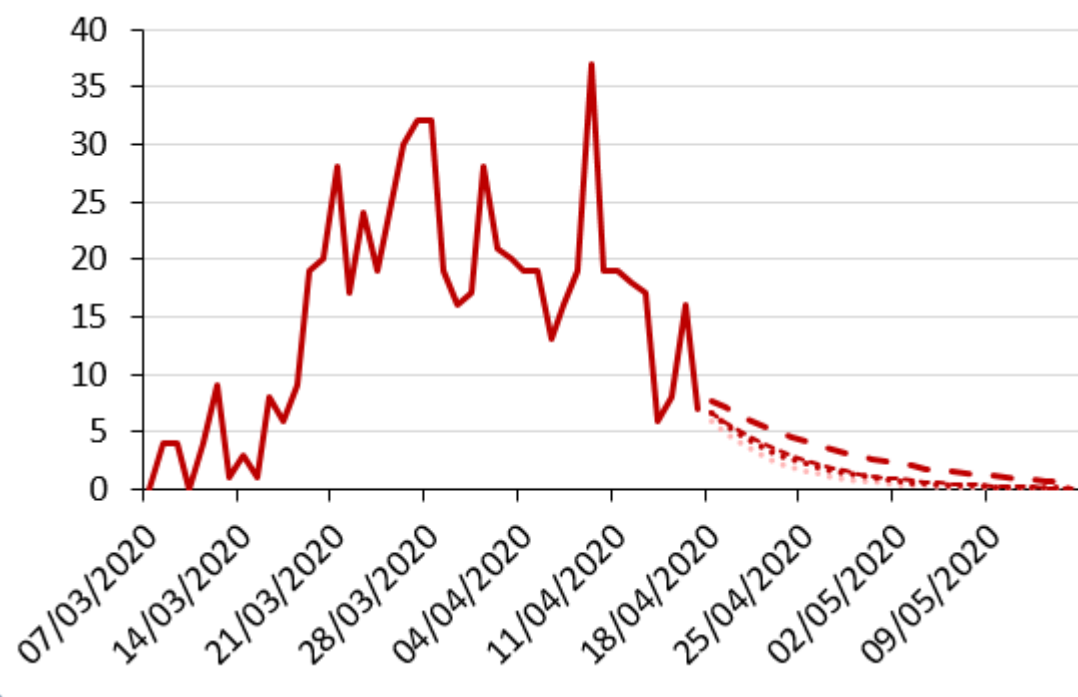
Costa Rica

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

Cumulated



Daily

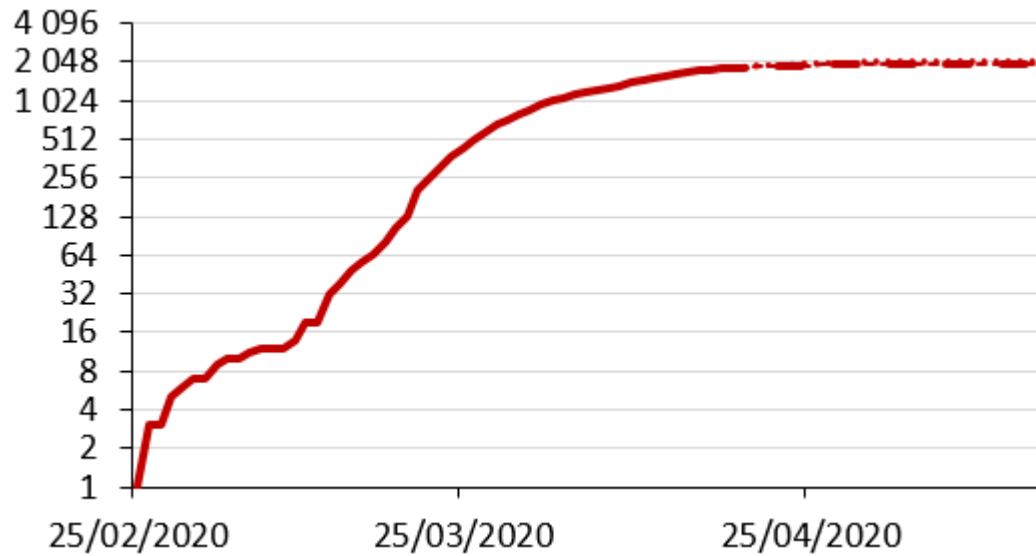


Data: The Johns Hopkins University, Politolog.com

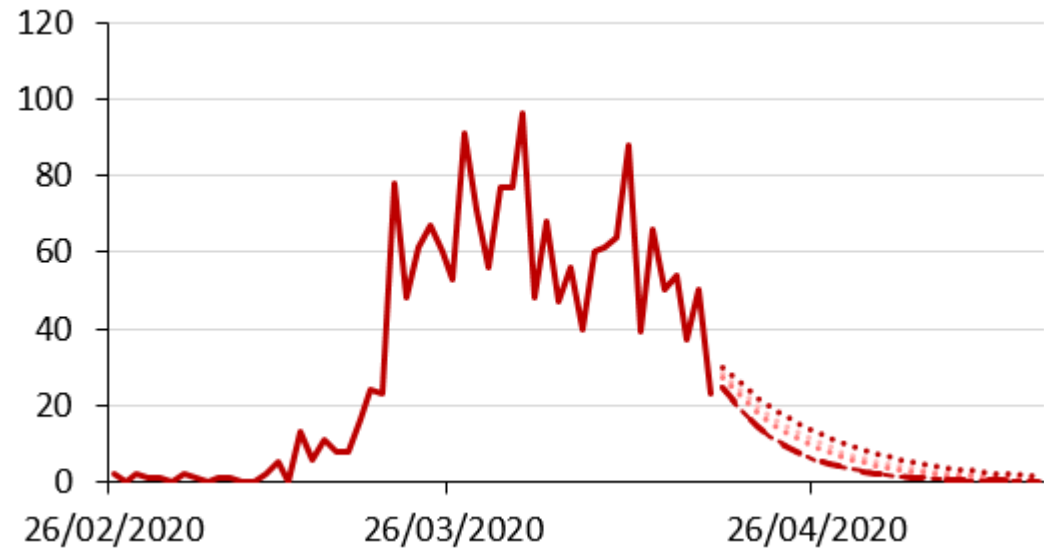
Croatia

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

Cumulated



Daily

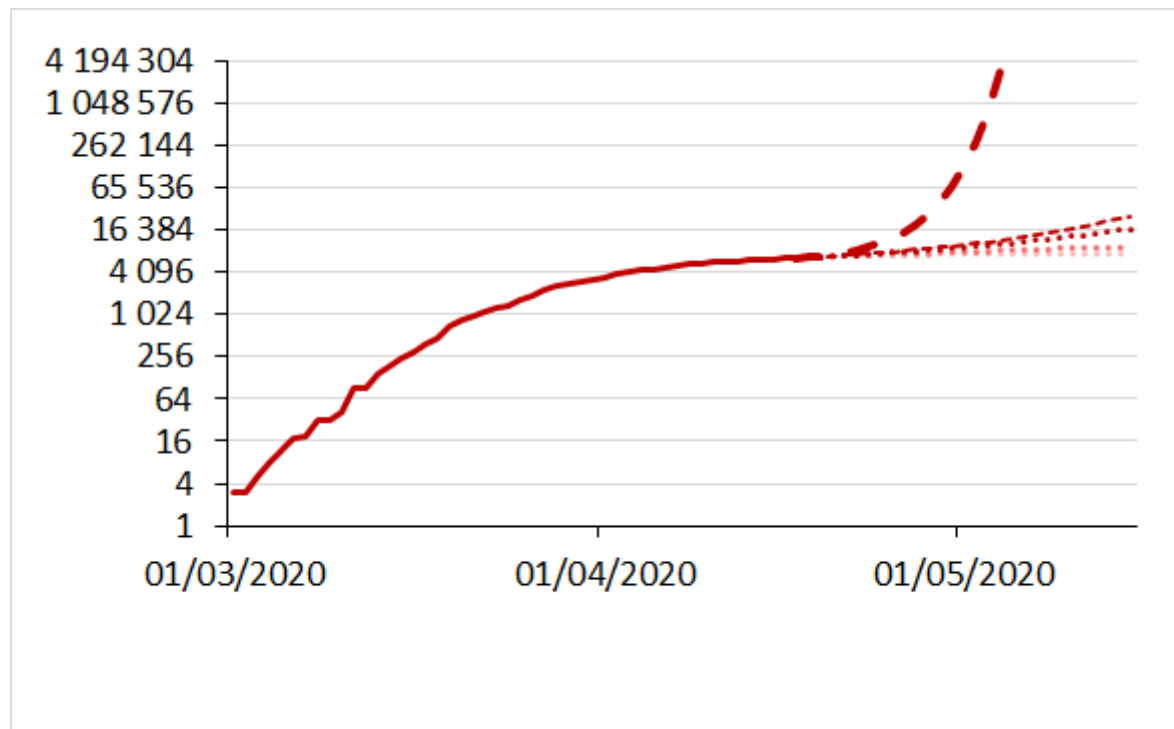


Data: The Johns Hopkins University, Politolog.com

Czech Republic

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

Cumulated

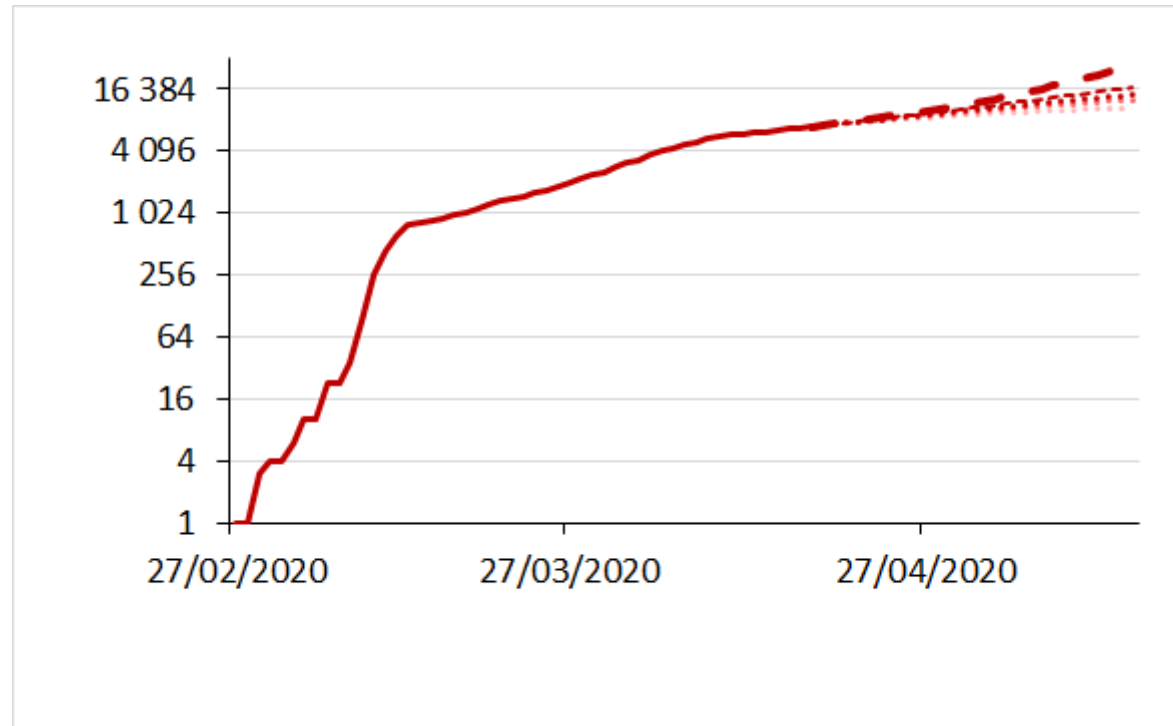


Data: The Johns Hopkins University, Politolog.com

Denmark

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

Cumulated

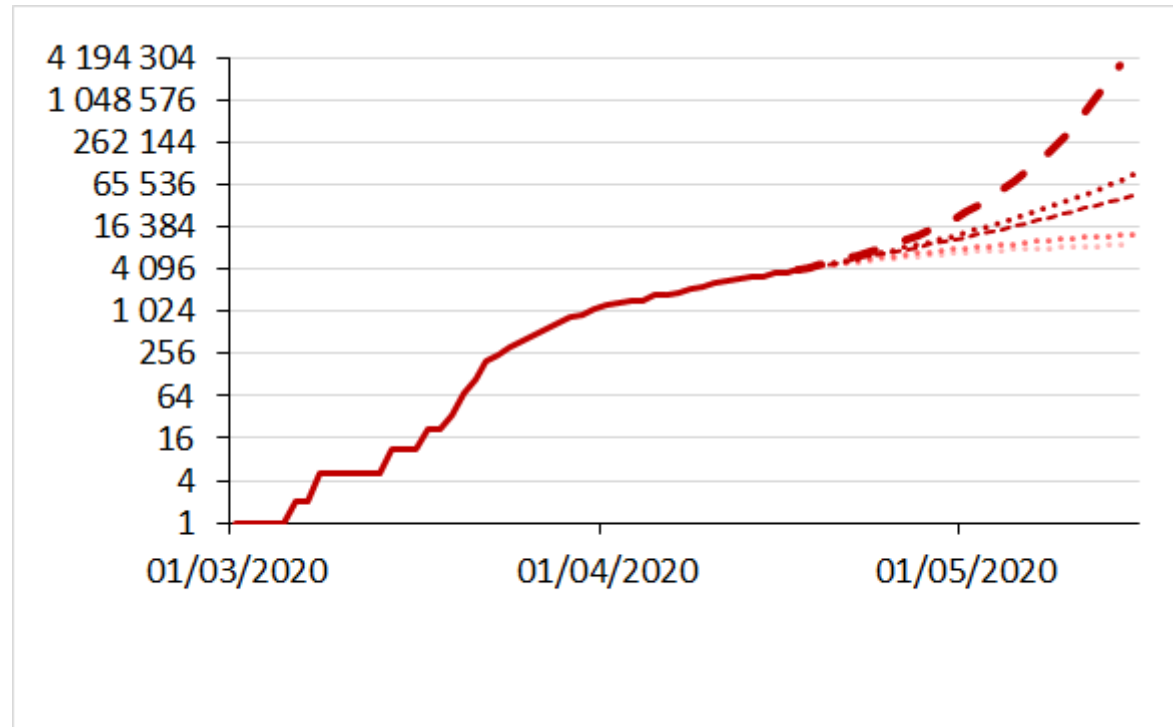


Data: The Johns Hopkins University, Politolog.com

Dominican Republic

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

Cumulated

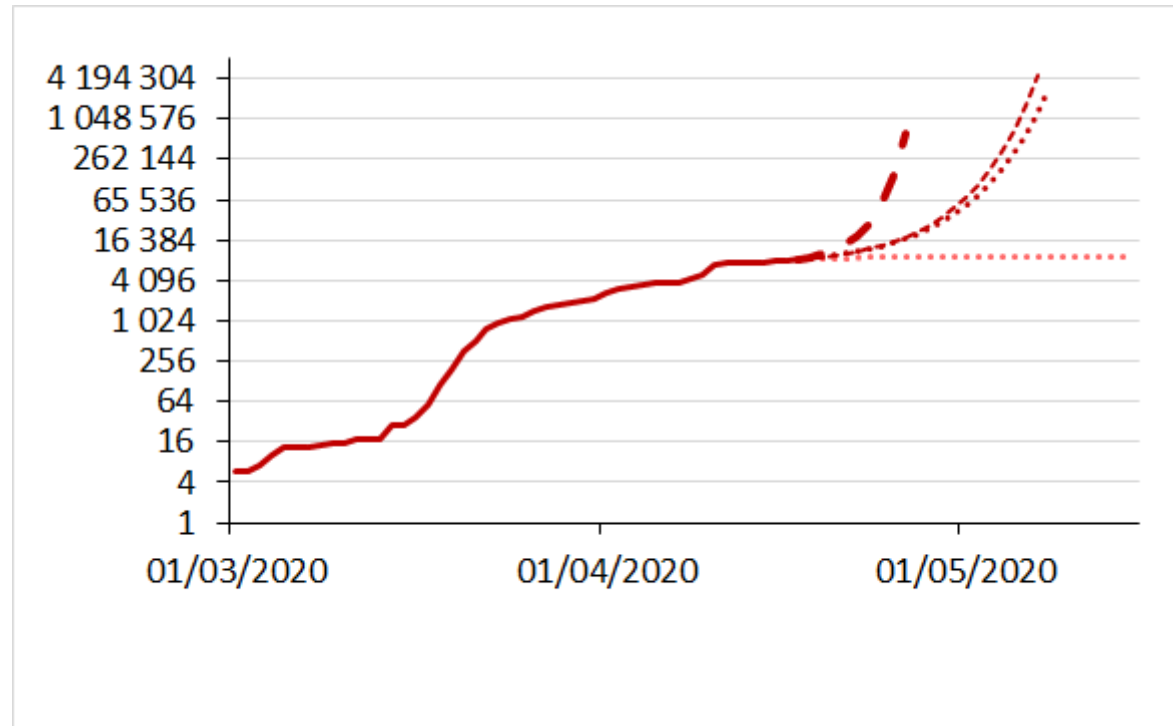


Data: The Johns Hopkins University, Politolog.com

Ecuador

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

Cumulated

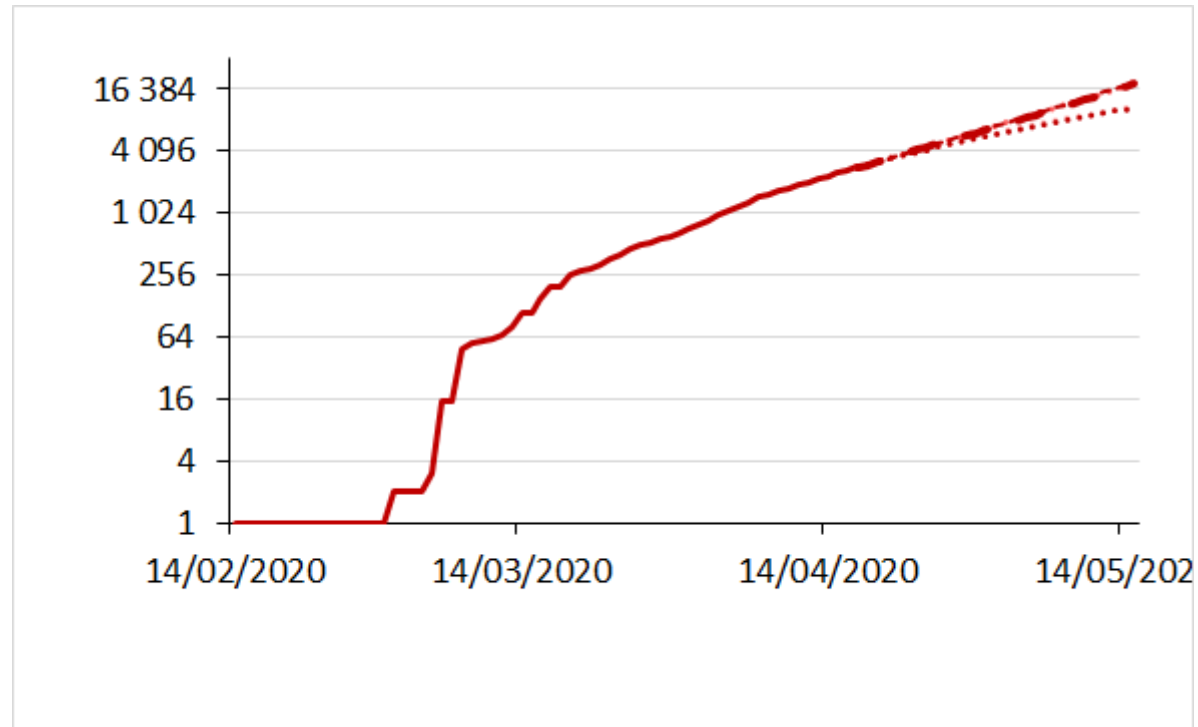


Data: The Johns Hopkins University, Politolog.com

Egypt

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

Cumulated

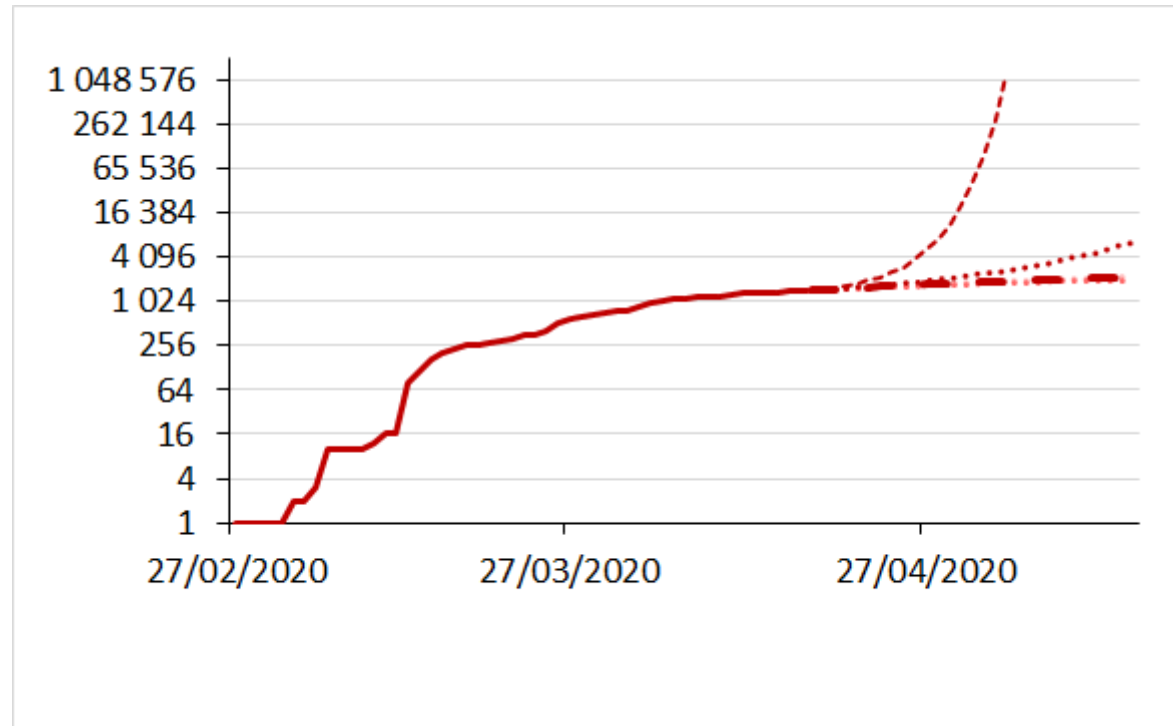


Data: The Johns Hopkins University, Politolog.com

Estonia

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

Cumulated

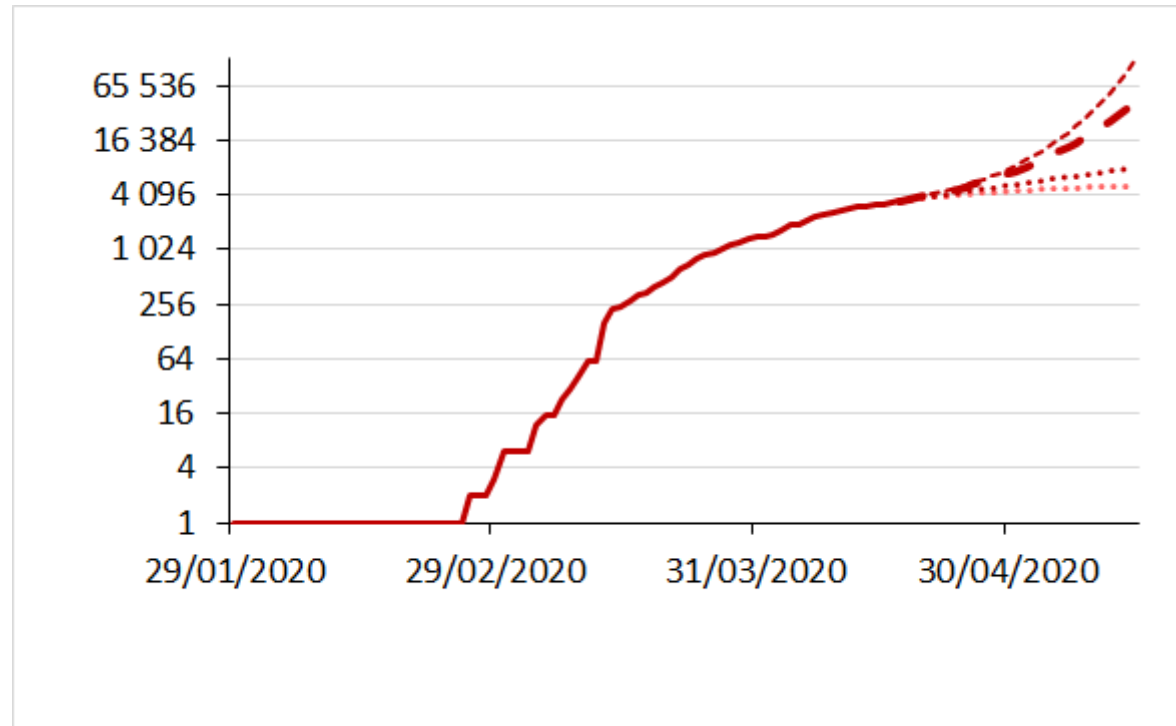


Data: The Johns Hopkins University, Politolog.com

Finland

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

Cumulated

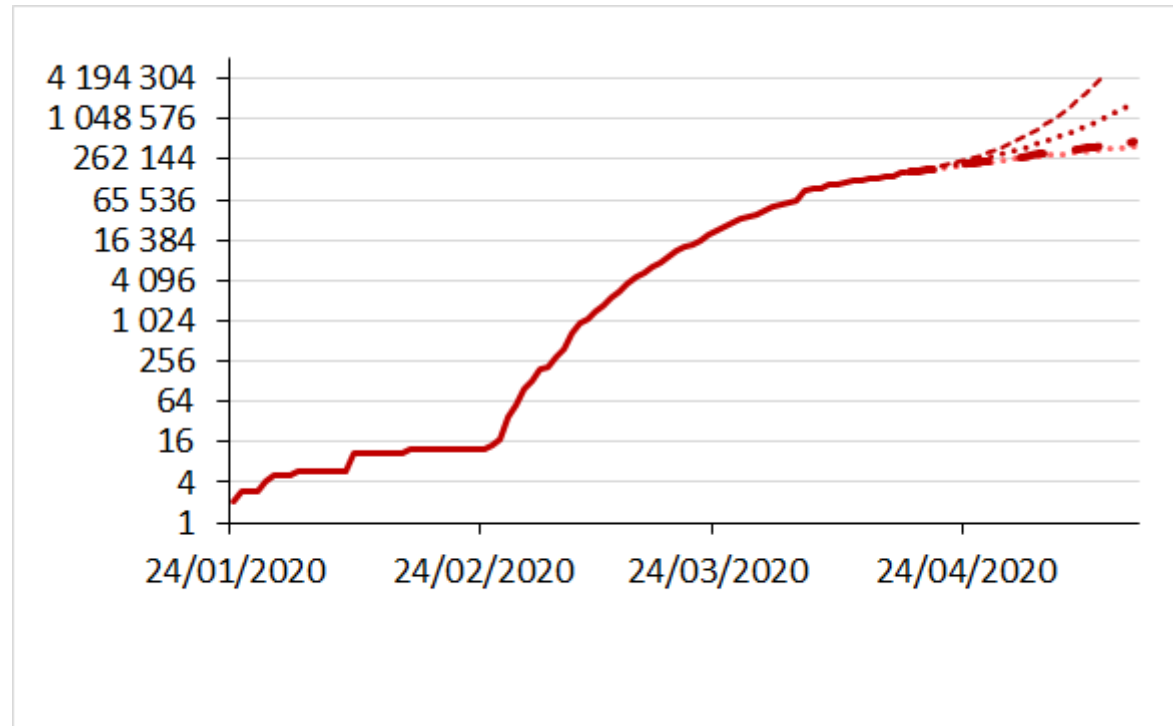


Data: The Johns Hopkins University, Politolog.com

France

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

Cumulated

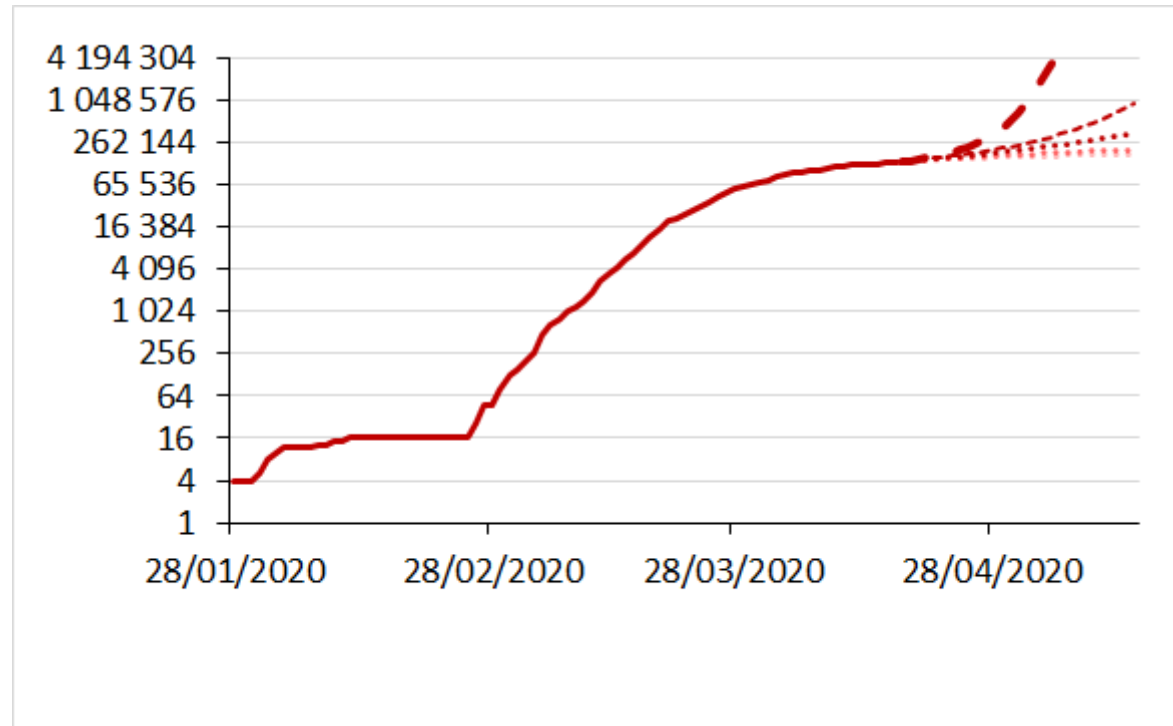


Data: The Johns Hopkins University, Politolog.com

Germany

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

Cumulated

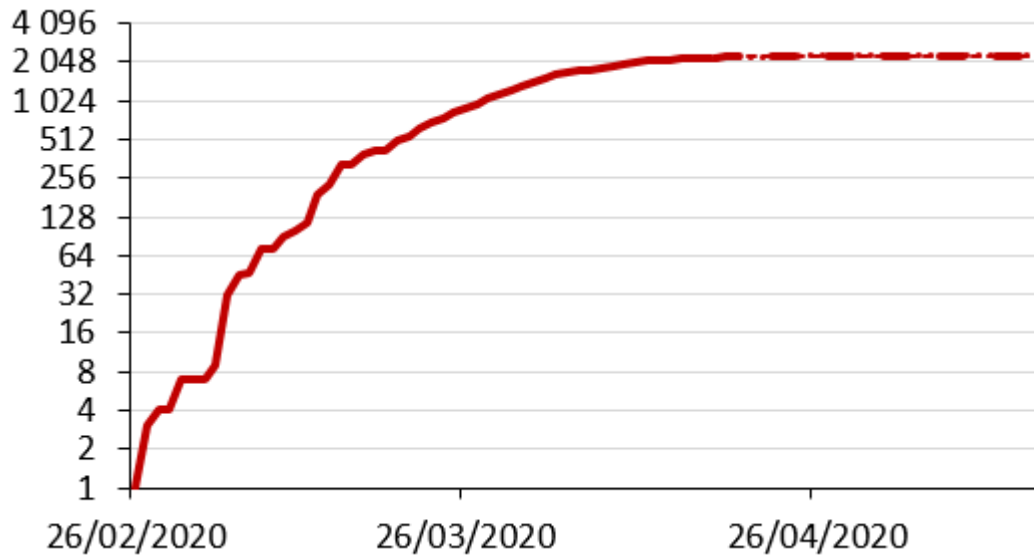


Data: The Johns Hopkins University, Politolog.com

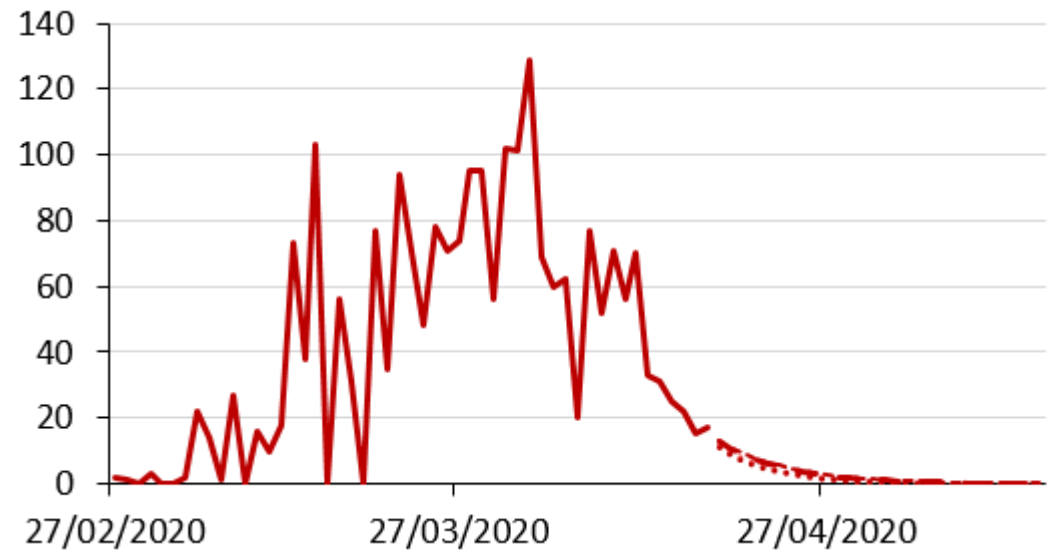
Greece

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

Cumulated



Daily

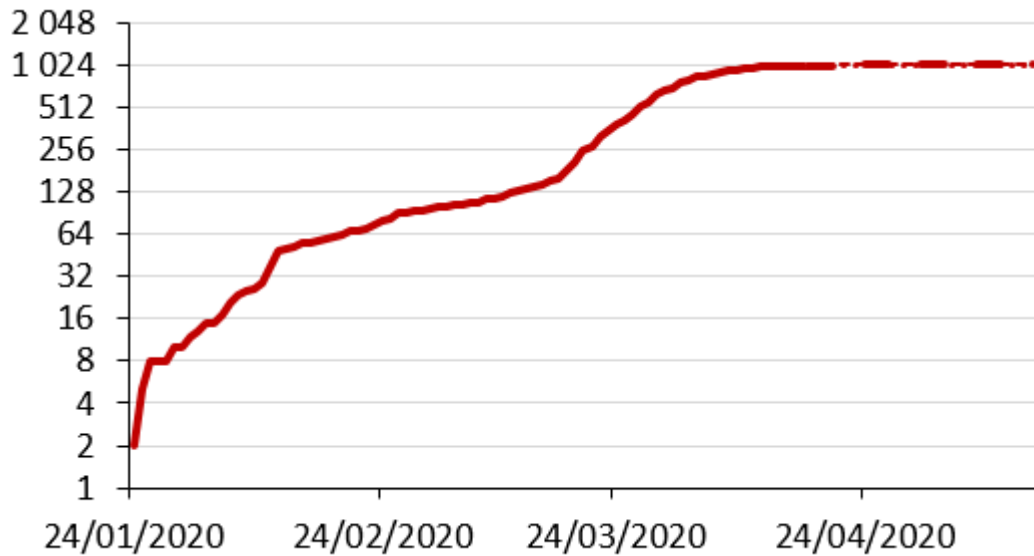


Data: The Johns Hopkins University, Politolog.com

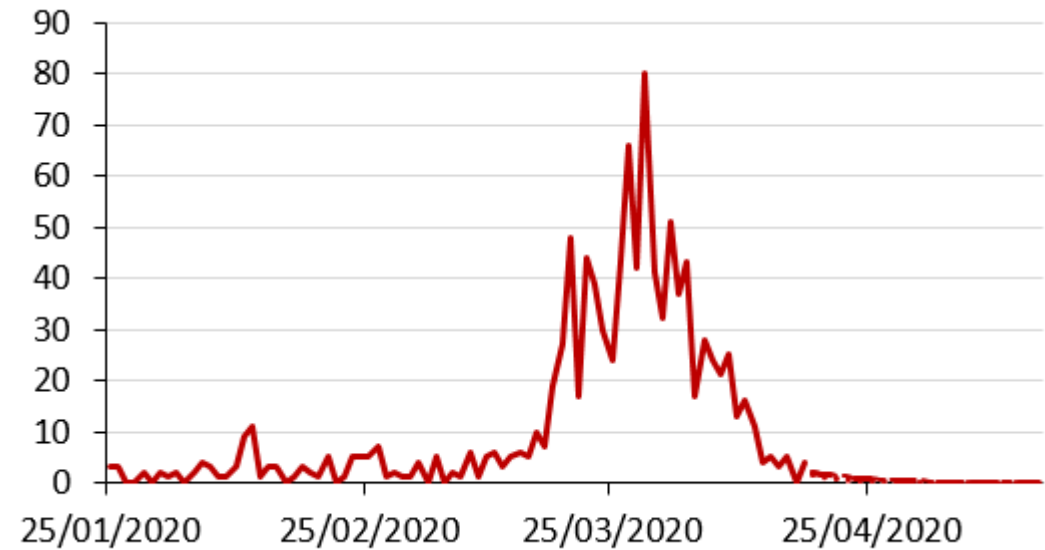
Hong Kong

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

Cumulated



Daily

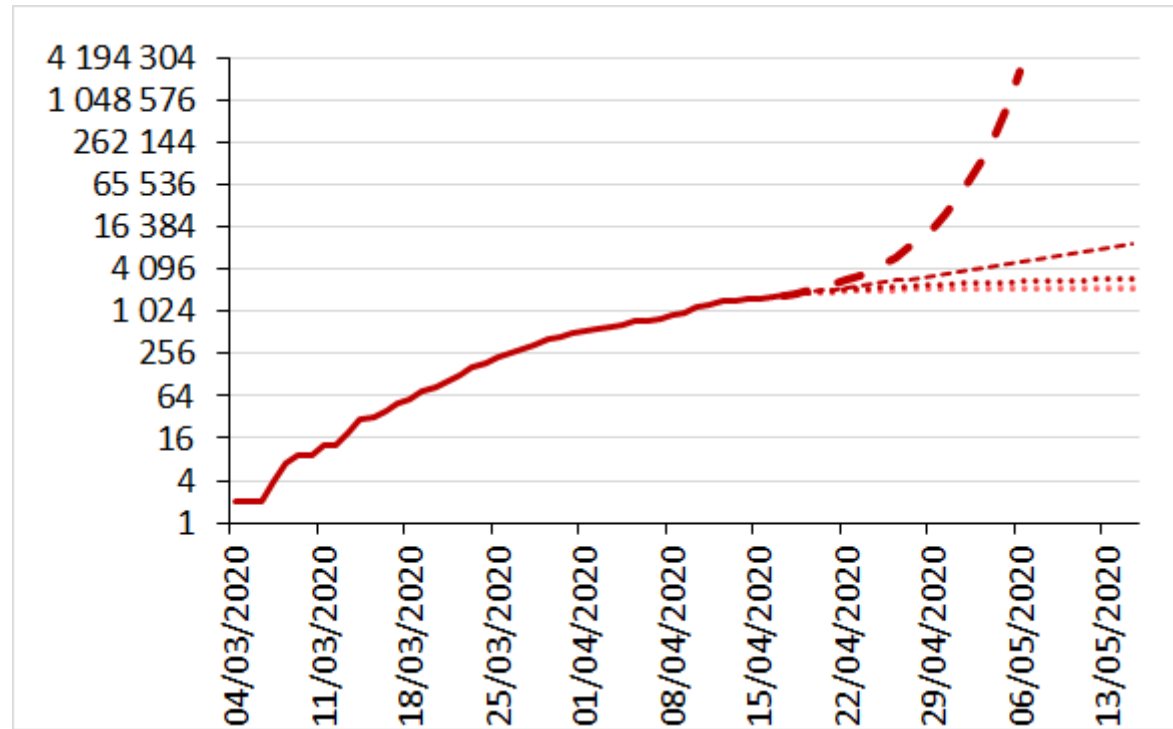


Data: The Johns Hopkins University, Politolog.com

Hungary

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

Cumulated

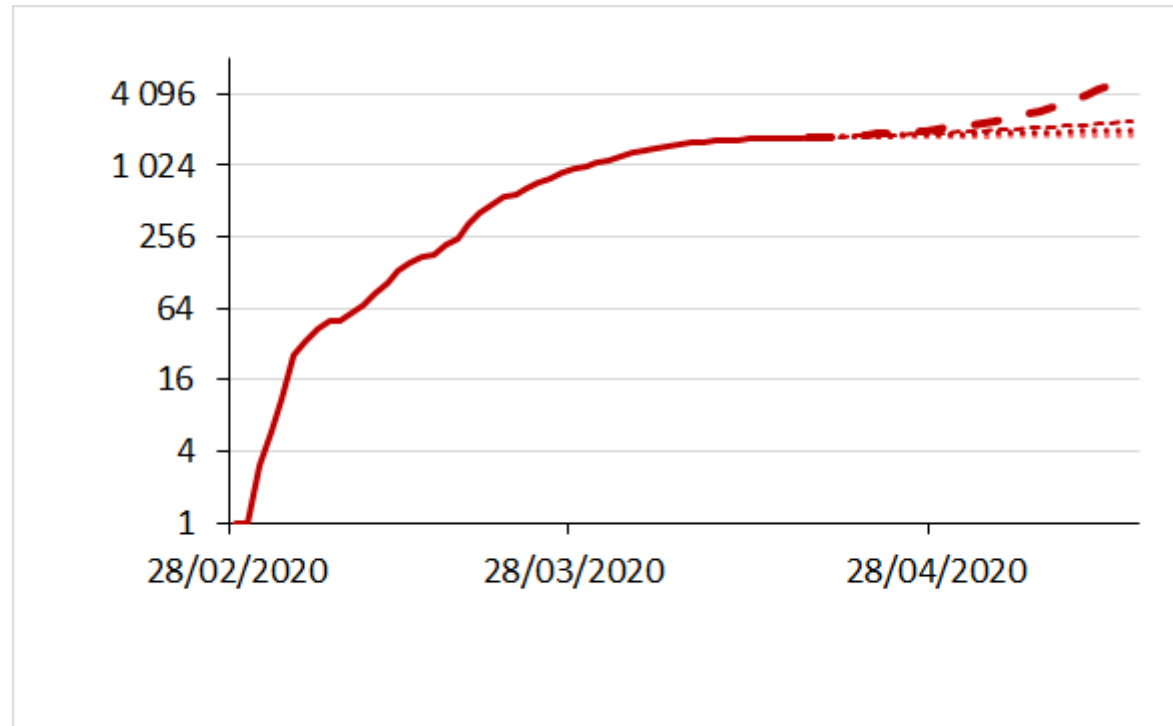


Data: The Johns Hopkins University, Politolog.com

Iceland

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

Cumulated

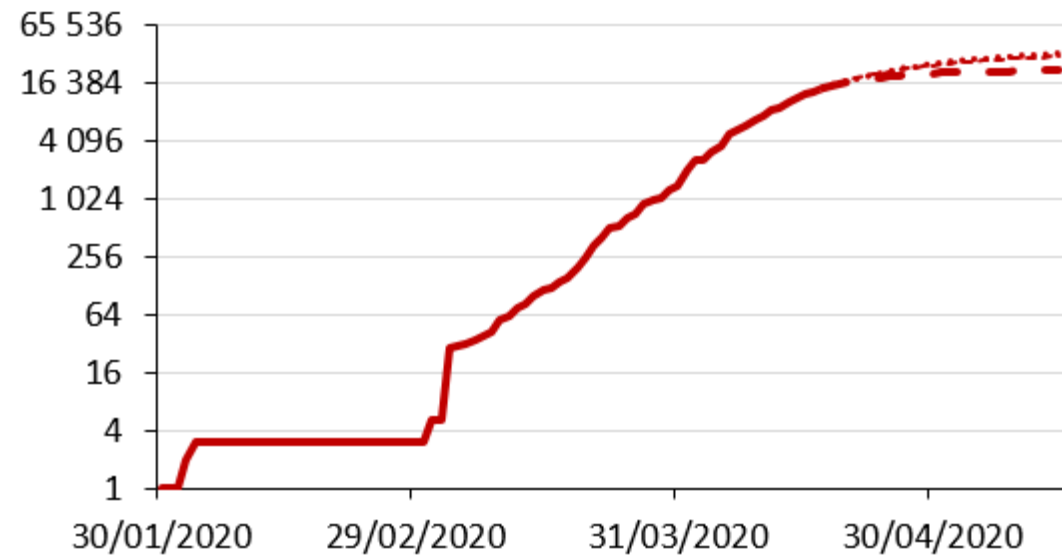


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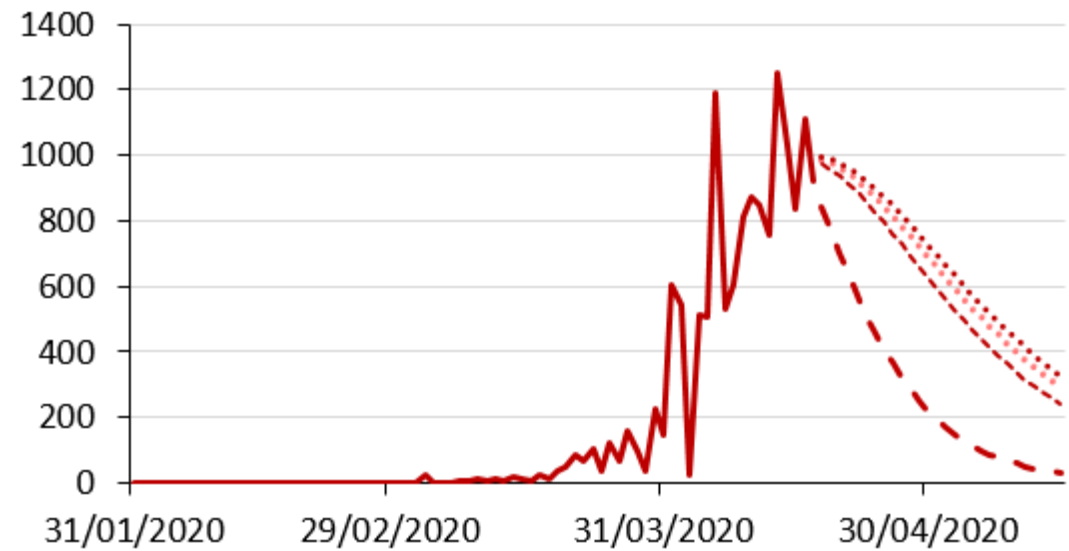
India

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Cumulated



Daily

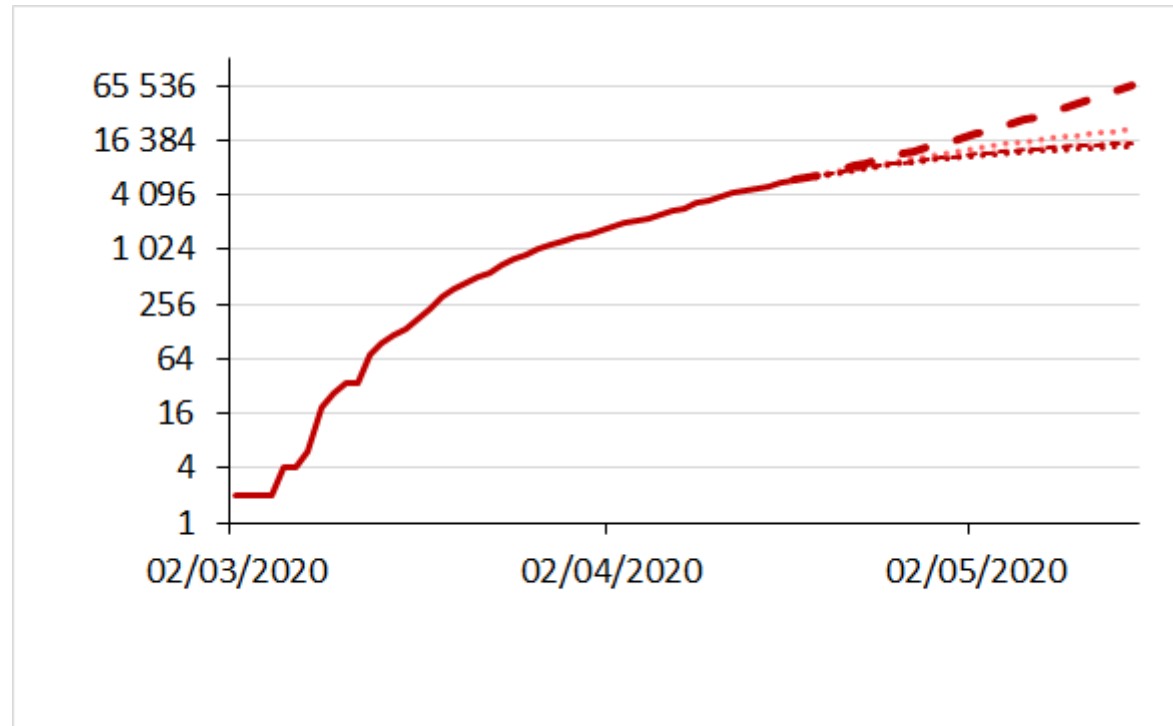


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Indonesia

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Cumulated

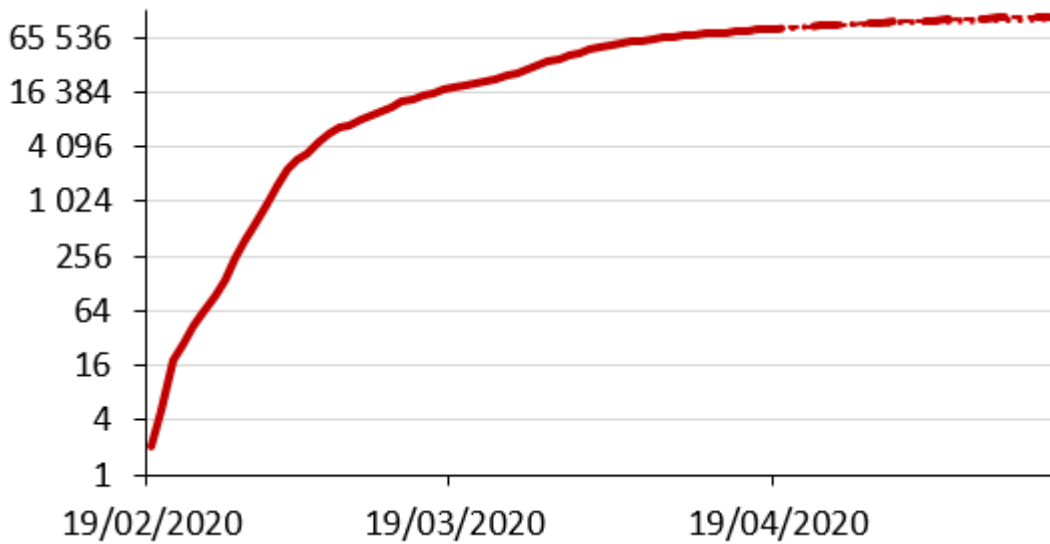


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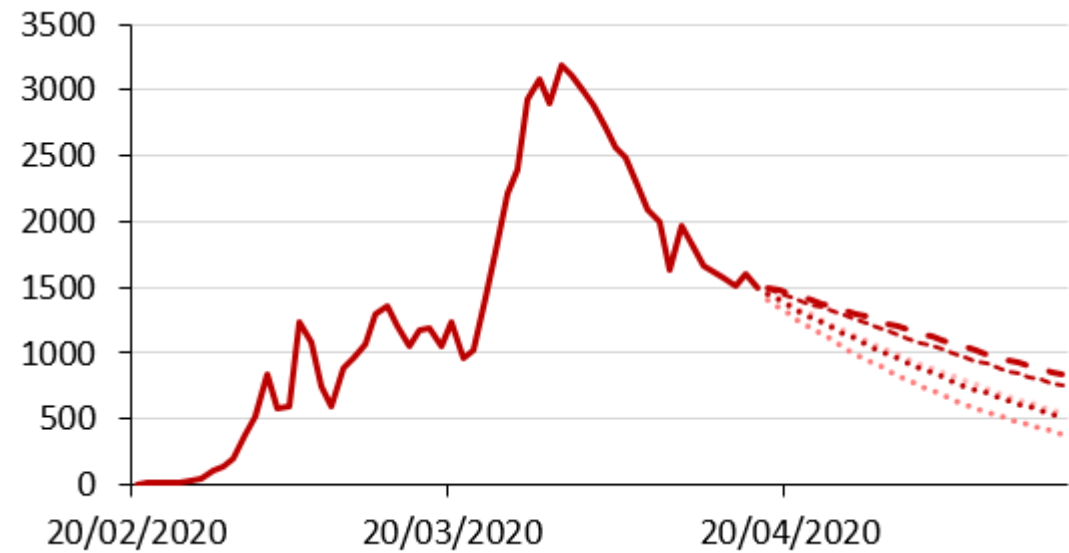
Iran

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

Cumulated



Daily

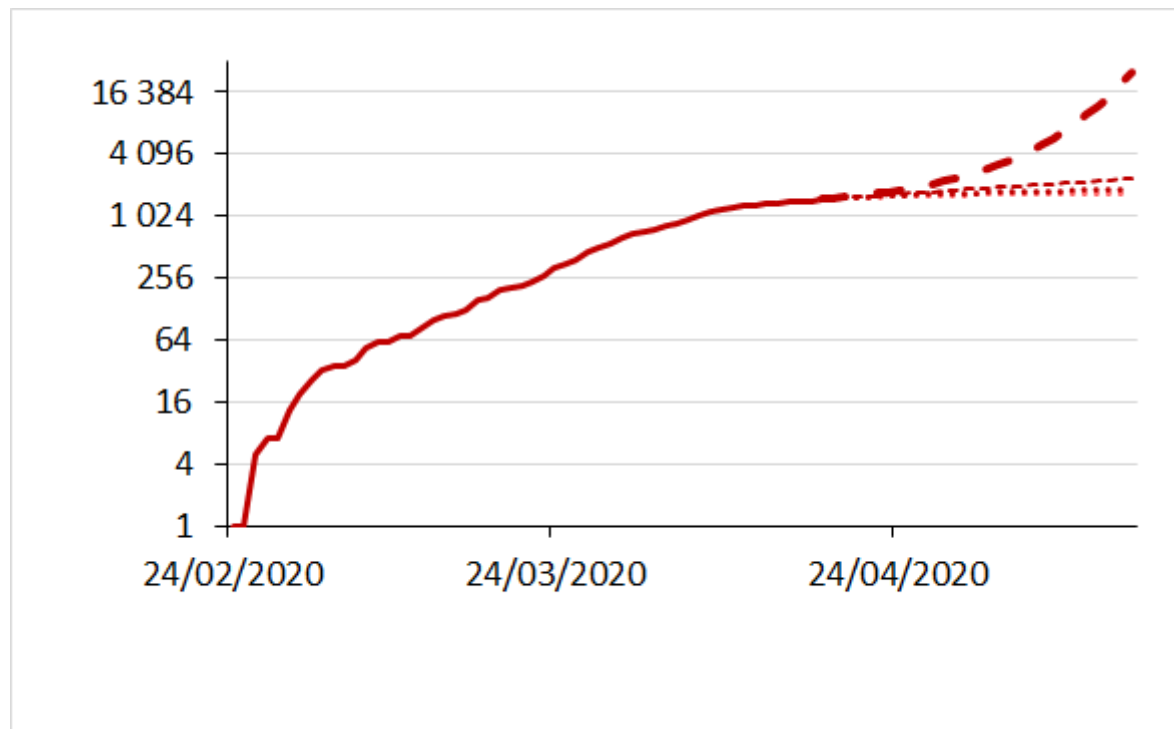


Data: The Johns Hopkins University, Politolog.com

Iraq

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Cumulated

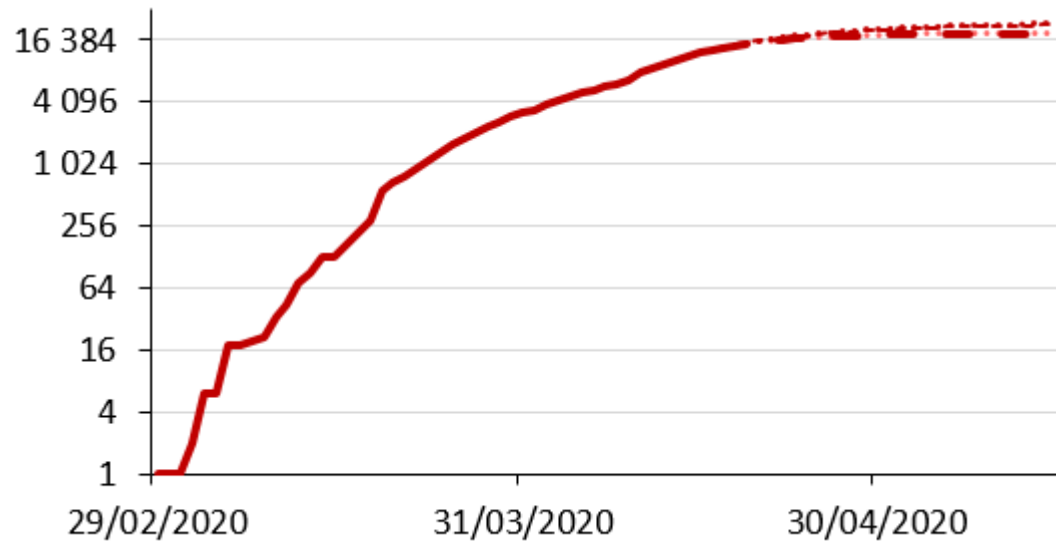


Data: The Johns Hopkins University, Politolog.com

Ireland

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

Cumulated



Daily

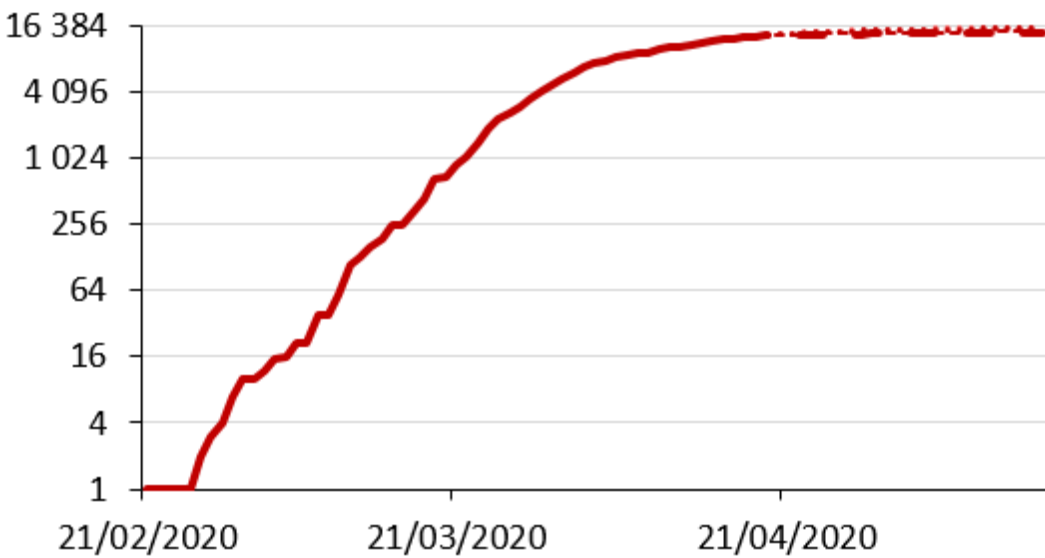


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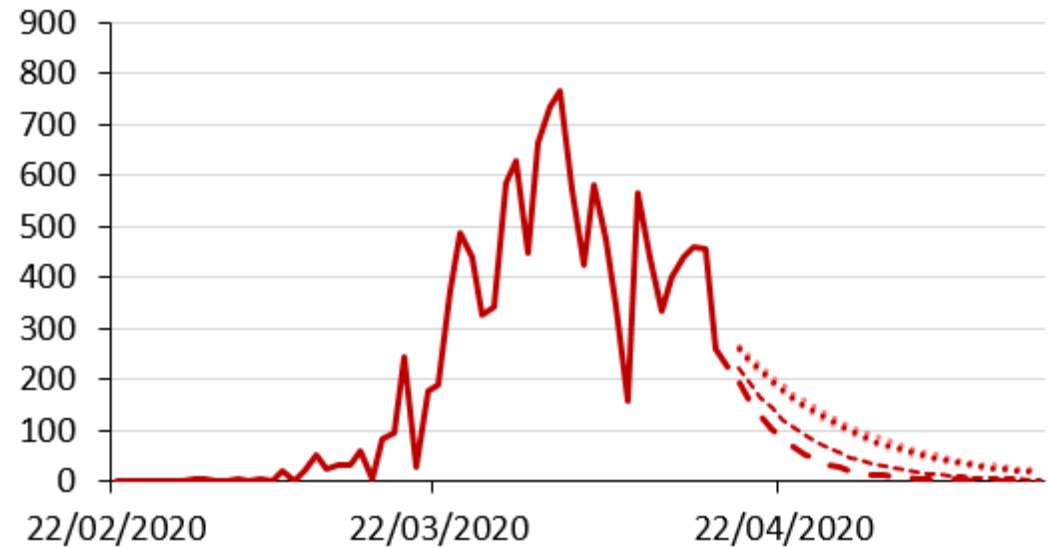
Israel

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Cumulated



Daily

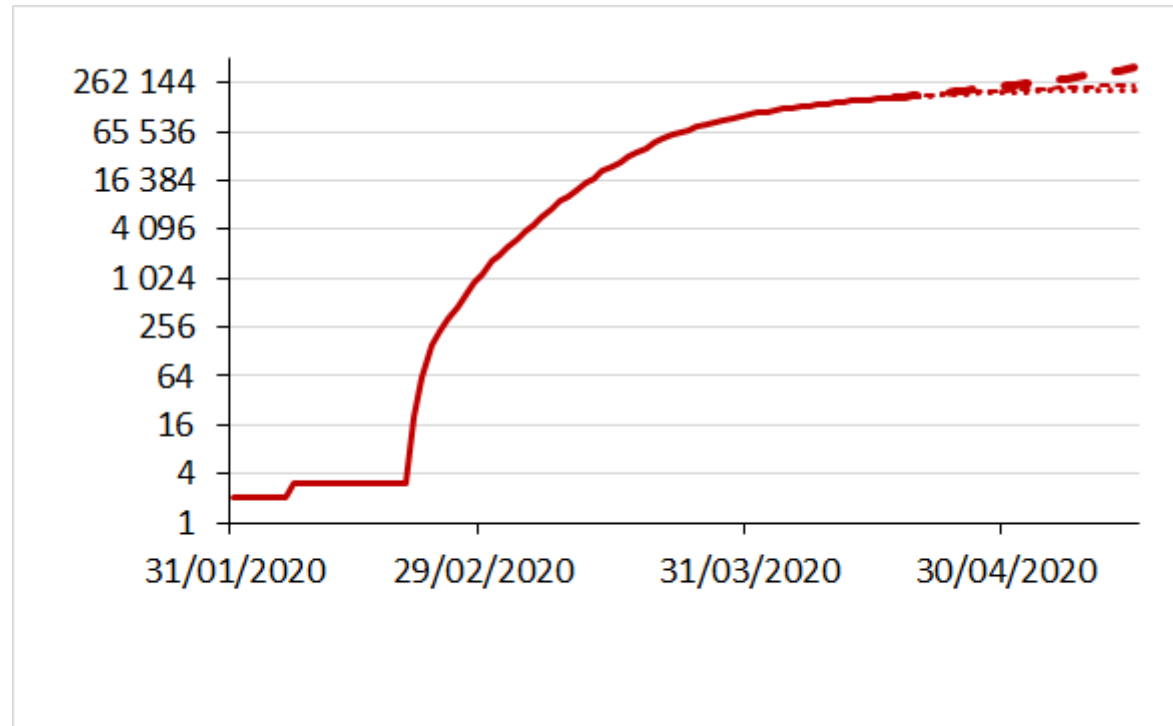


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Italy

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

Cumulated

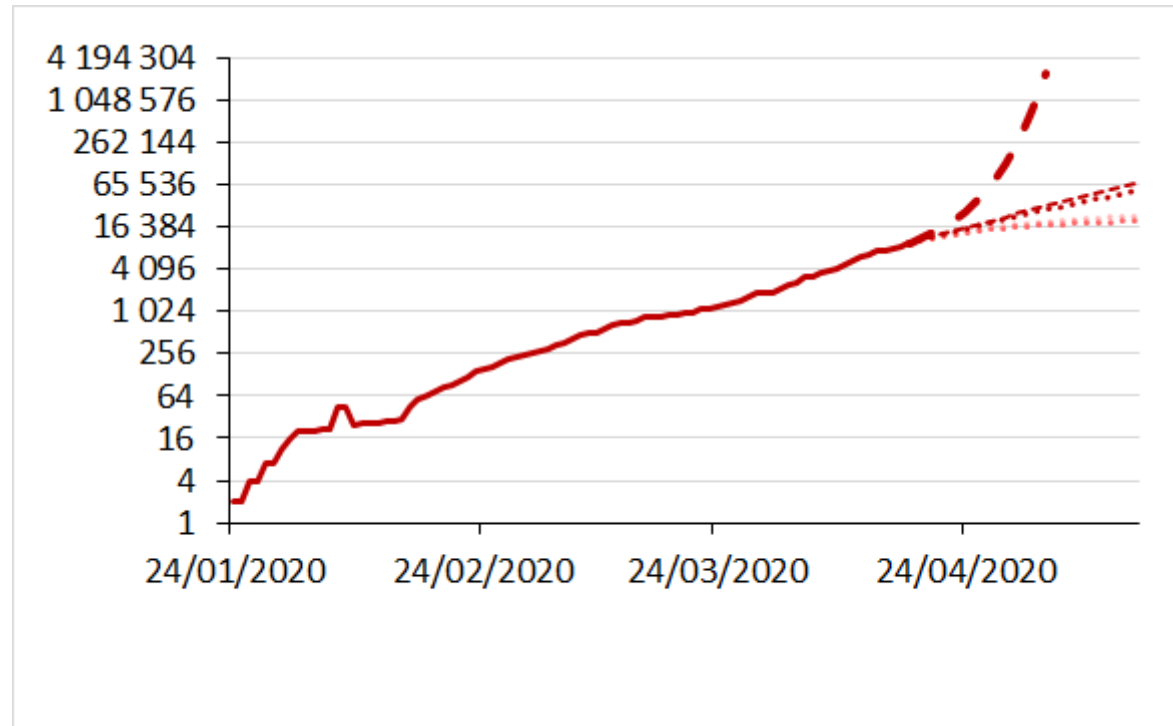


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Japan

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

Cumulated

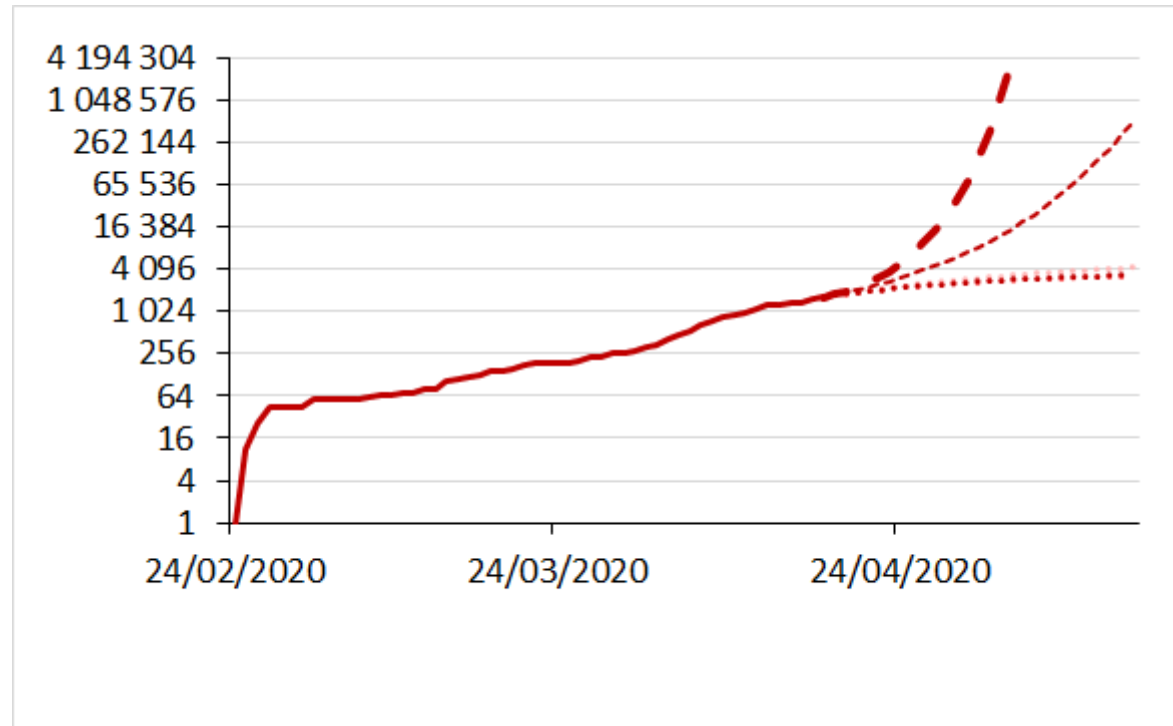


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Kuwait

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

Cumulated

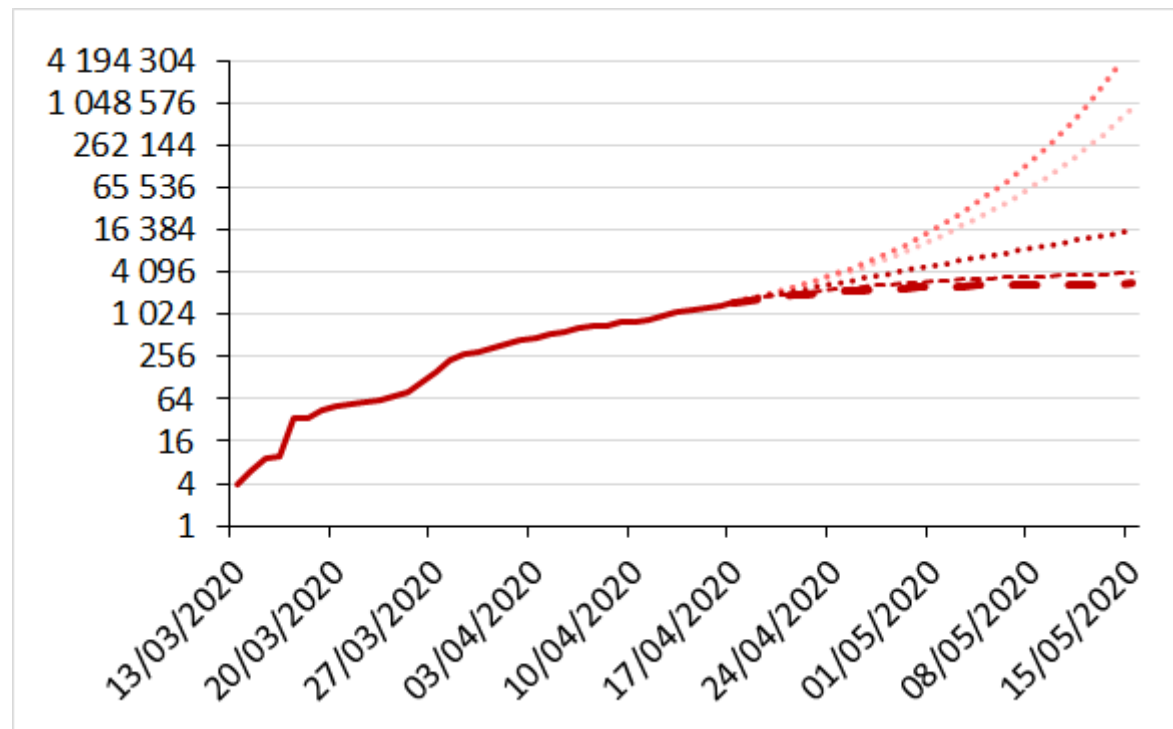


Data: The Johns Hopkins University, Politolog.com

Kazakhstan

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

Cumulated

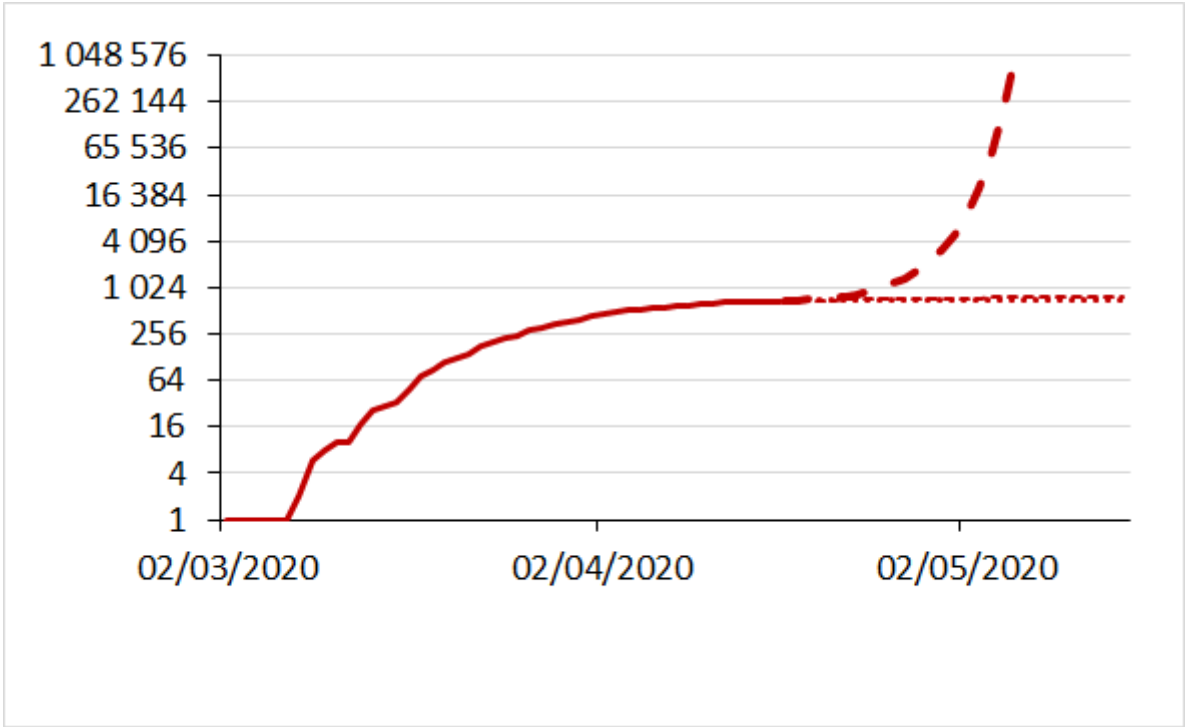


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Latvia

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

Cumulated

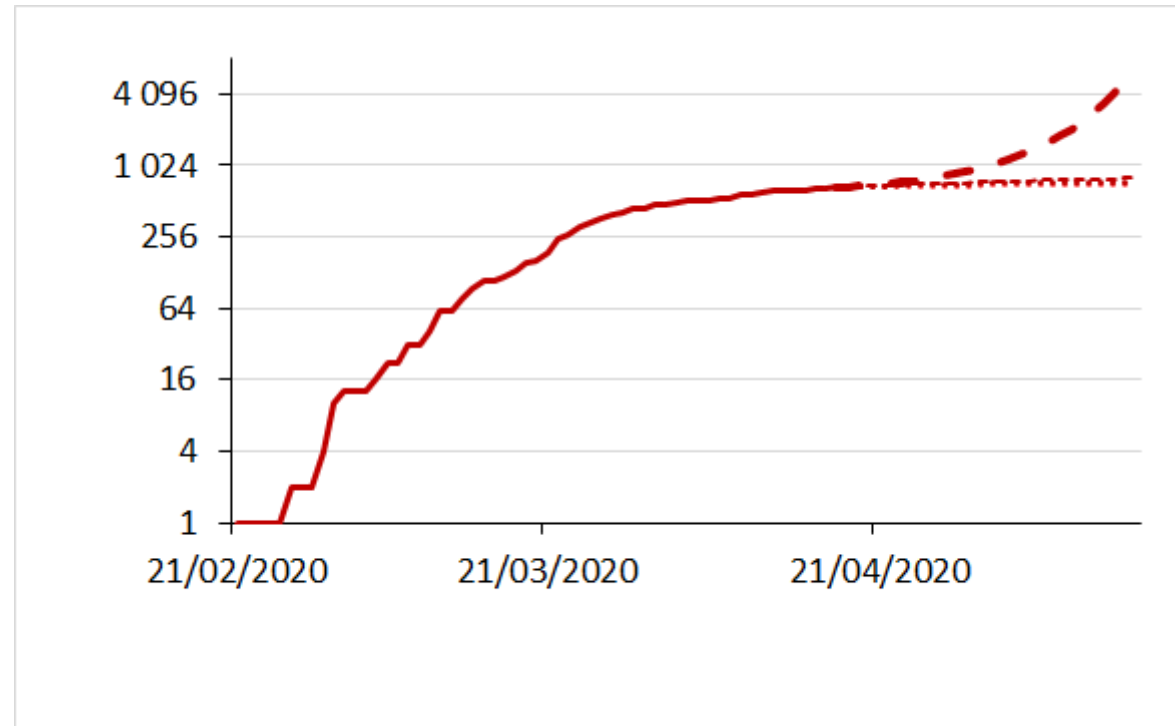


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Lebanon

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Cumulated

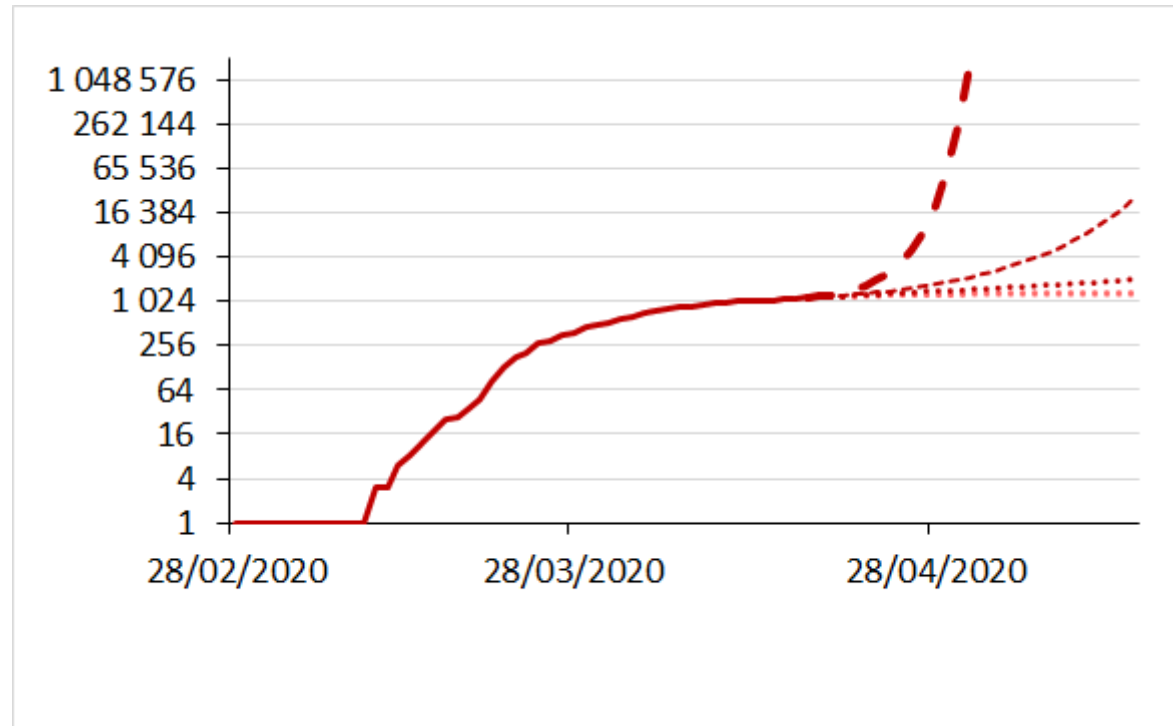


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Lithuania

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

Cumulated

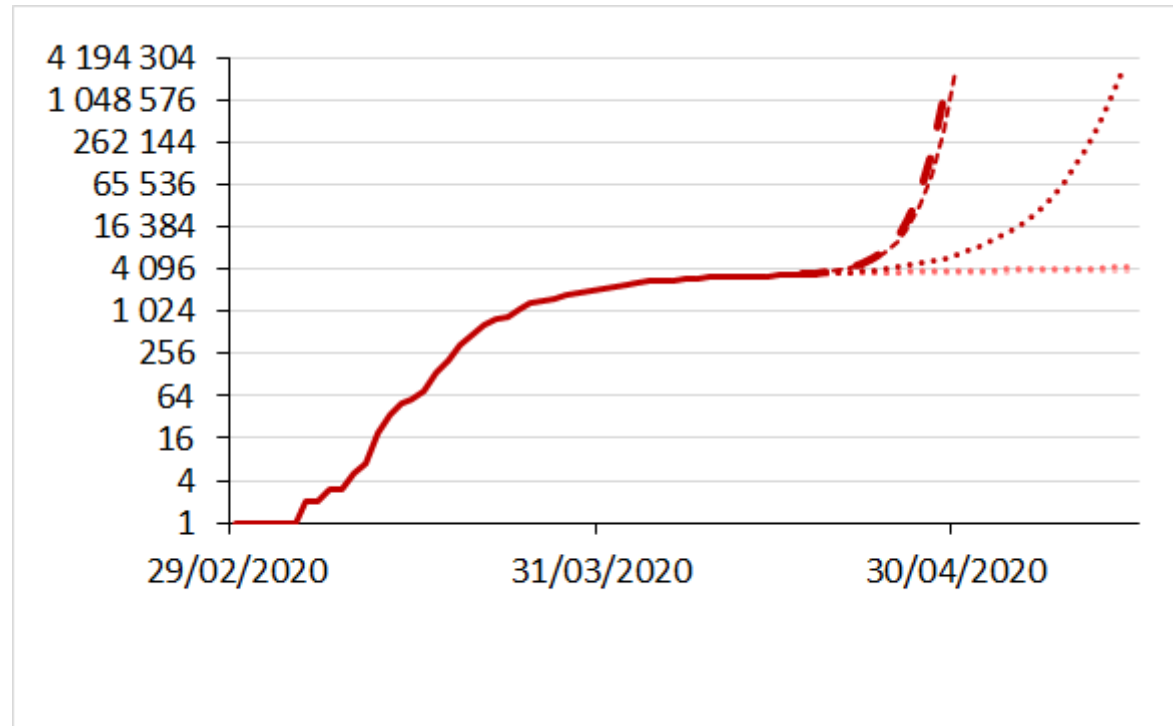


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Luxembourg

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

Cumulated

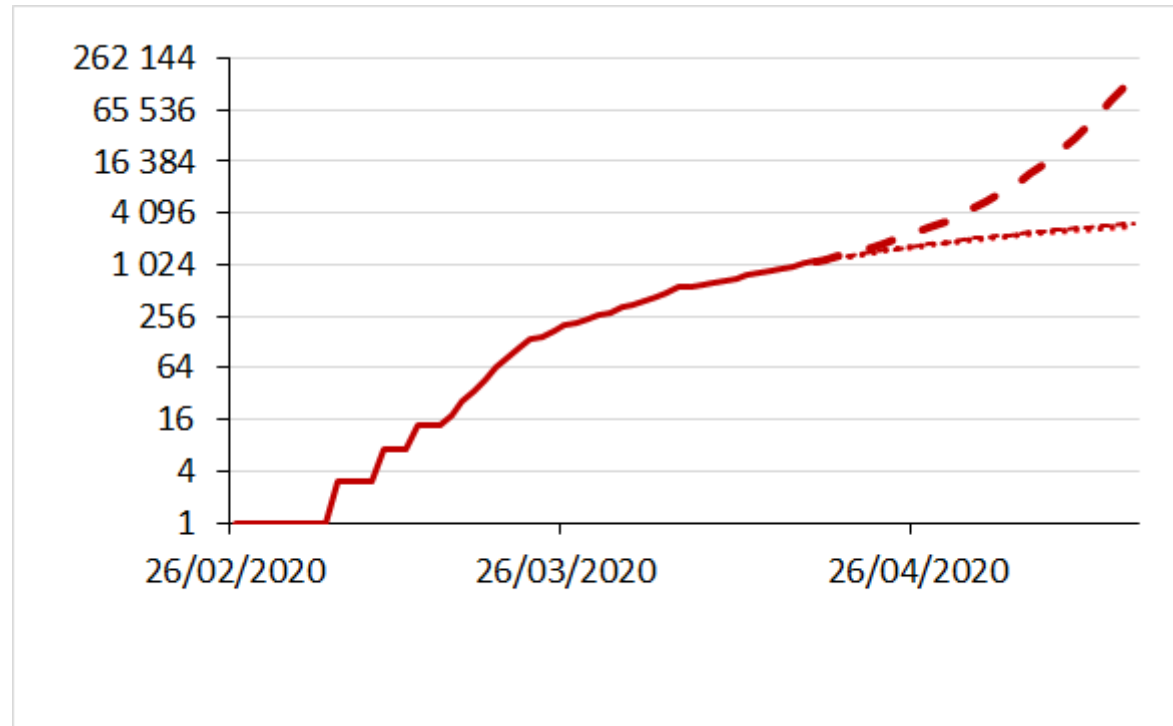


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Macedonia

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Cumulated

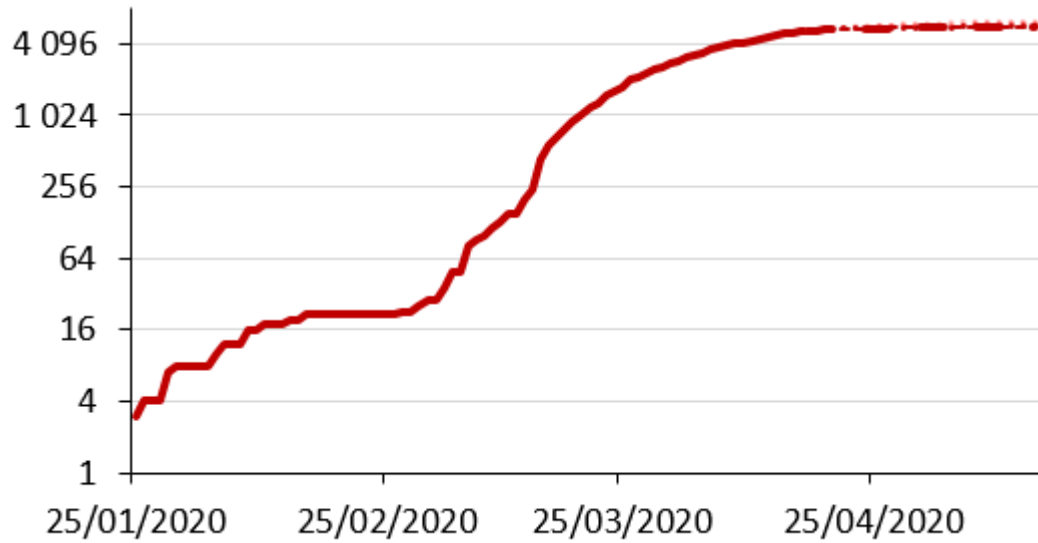


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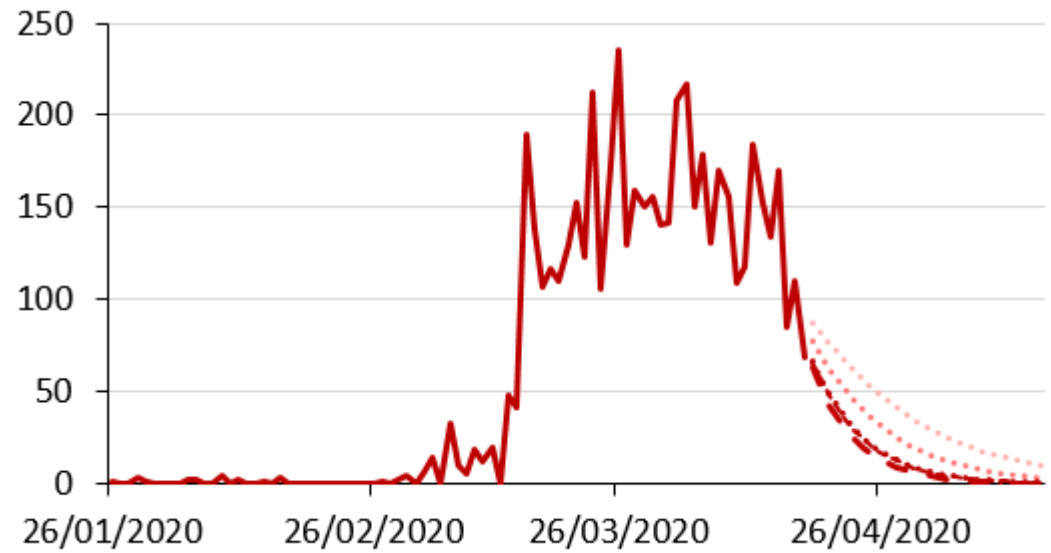
Malaysia

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Cumulated



Daily

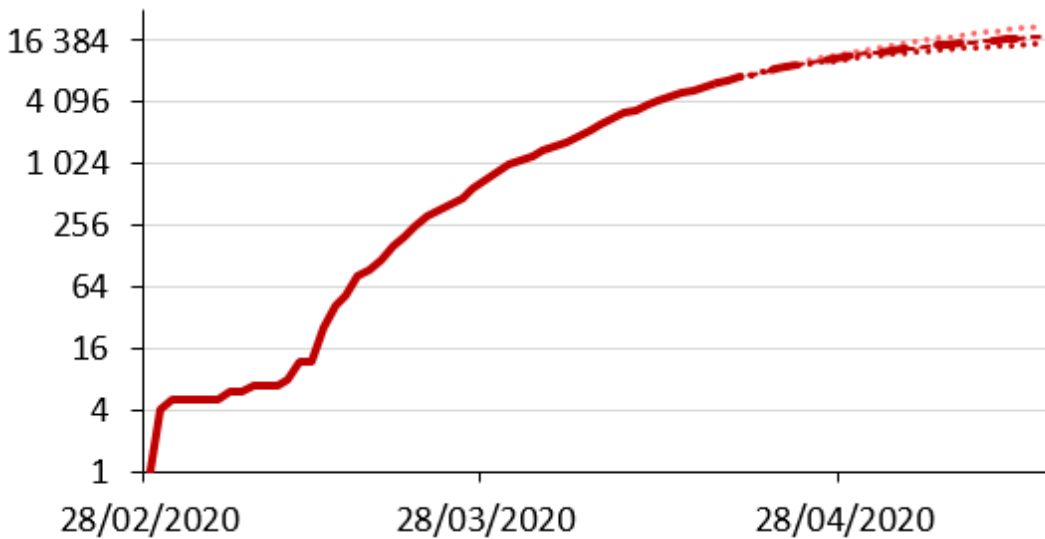


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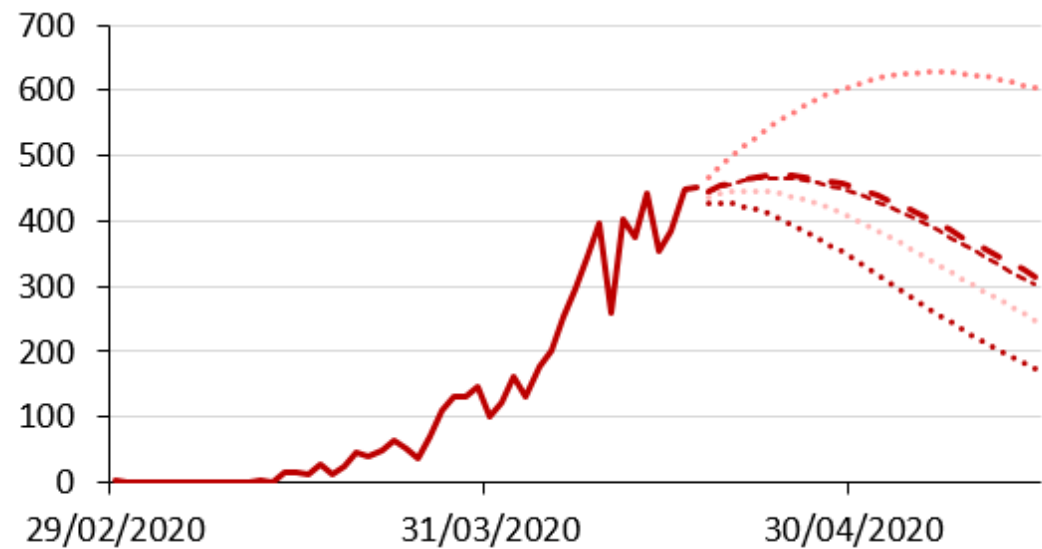
Mexico

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

Cumulated



Daily

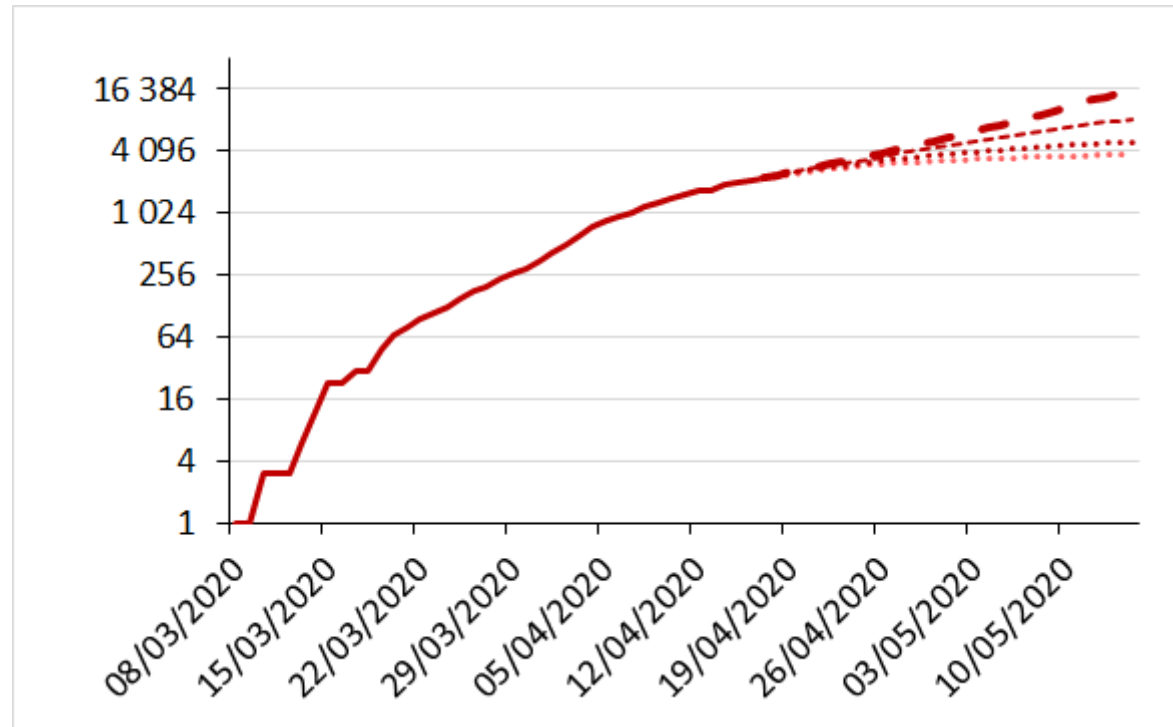


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Moldova

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

Cumulated

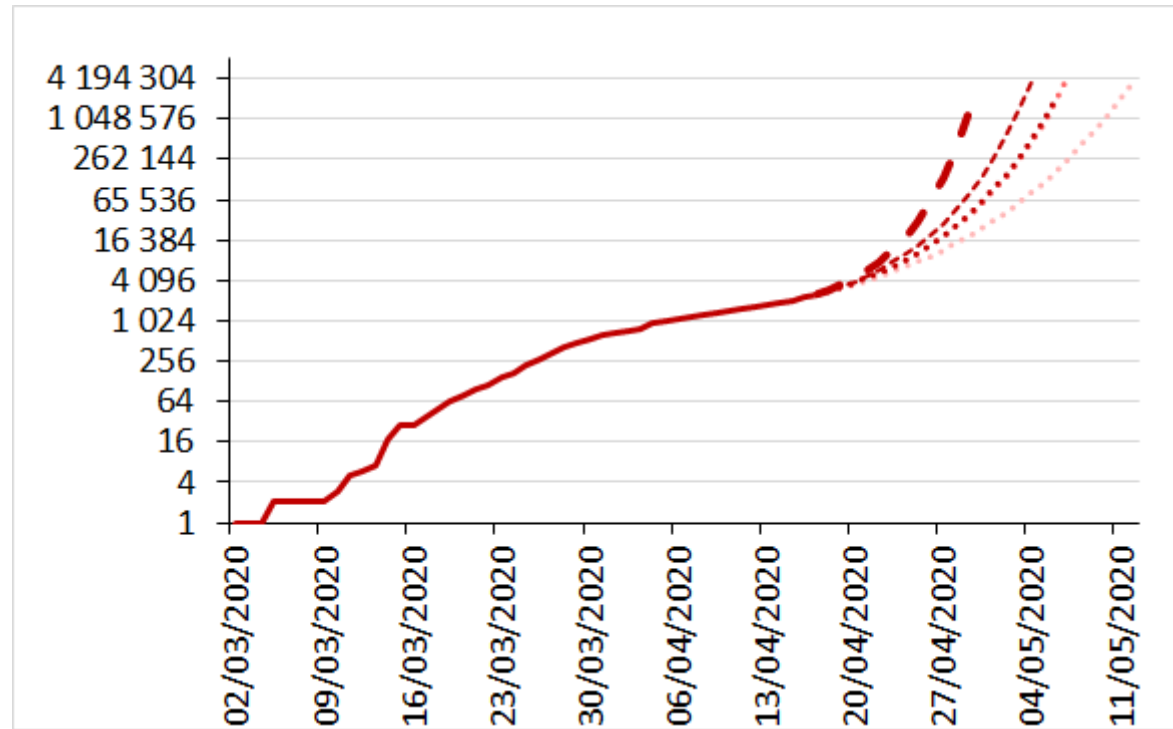


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Morocco

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

Cumulated

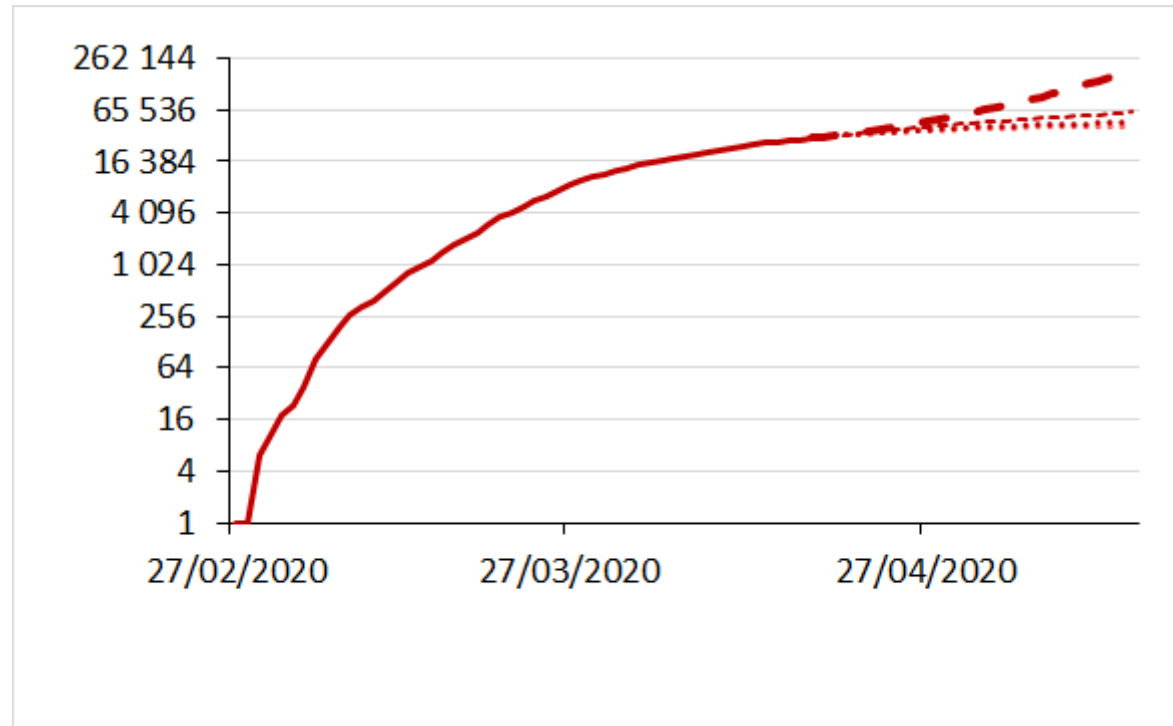


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Netherlands

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

Cumulated

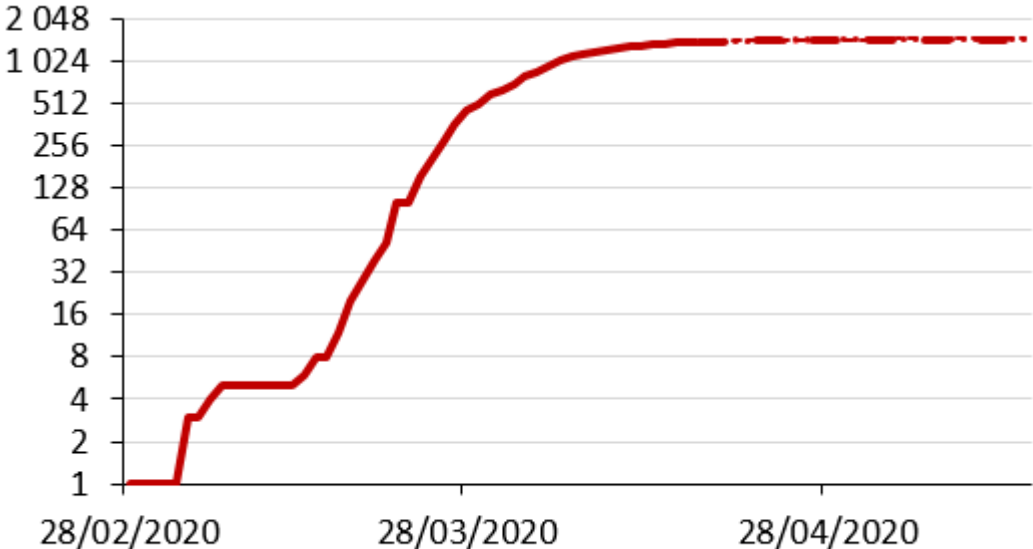


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New Zealand

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

Cumulated



Daily

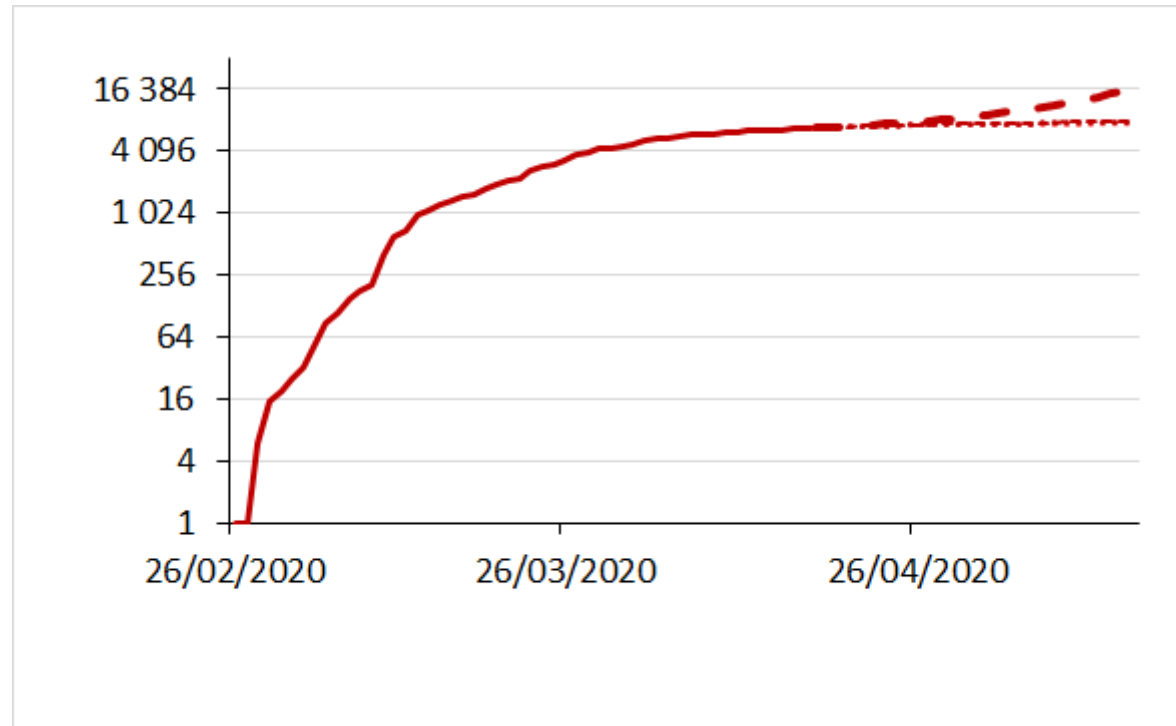


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Norway

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

Cumulated

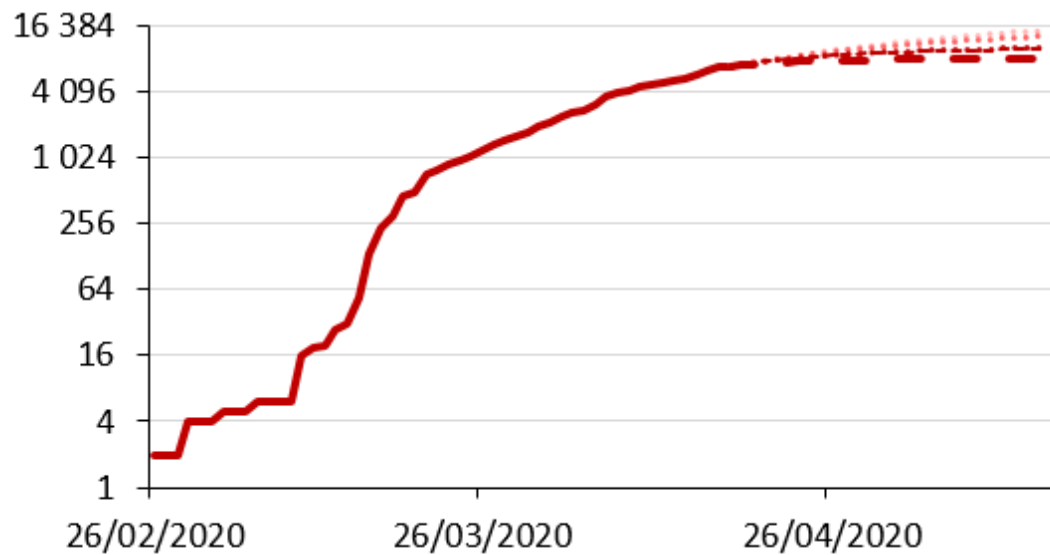


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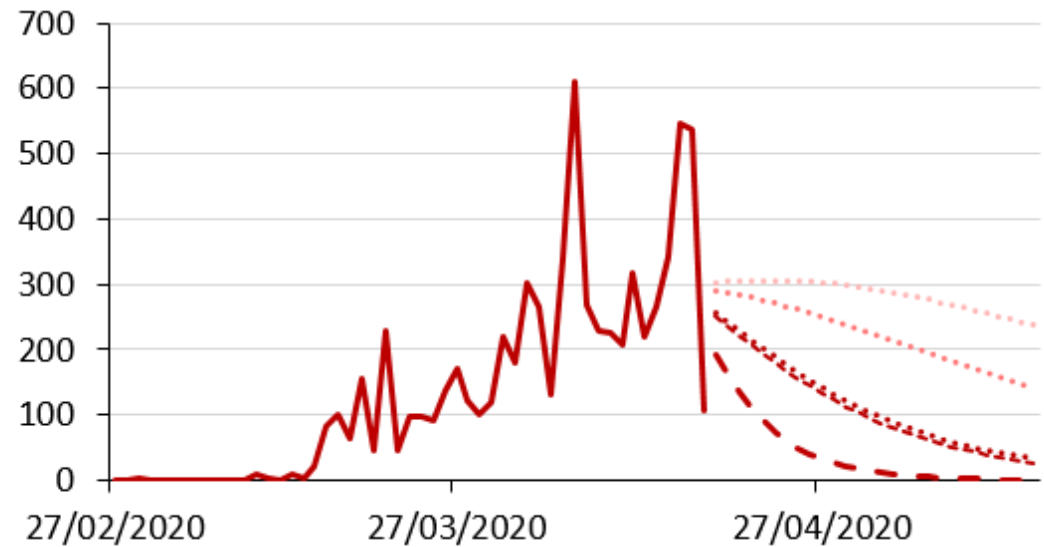
Pakistan

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

Cumulated



Daily

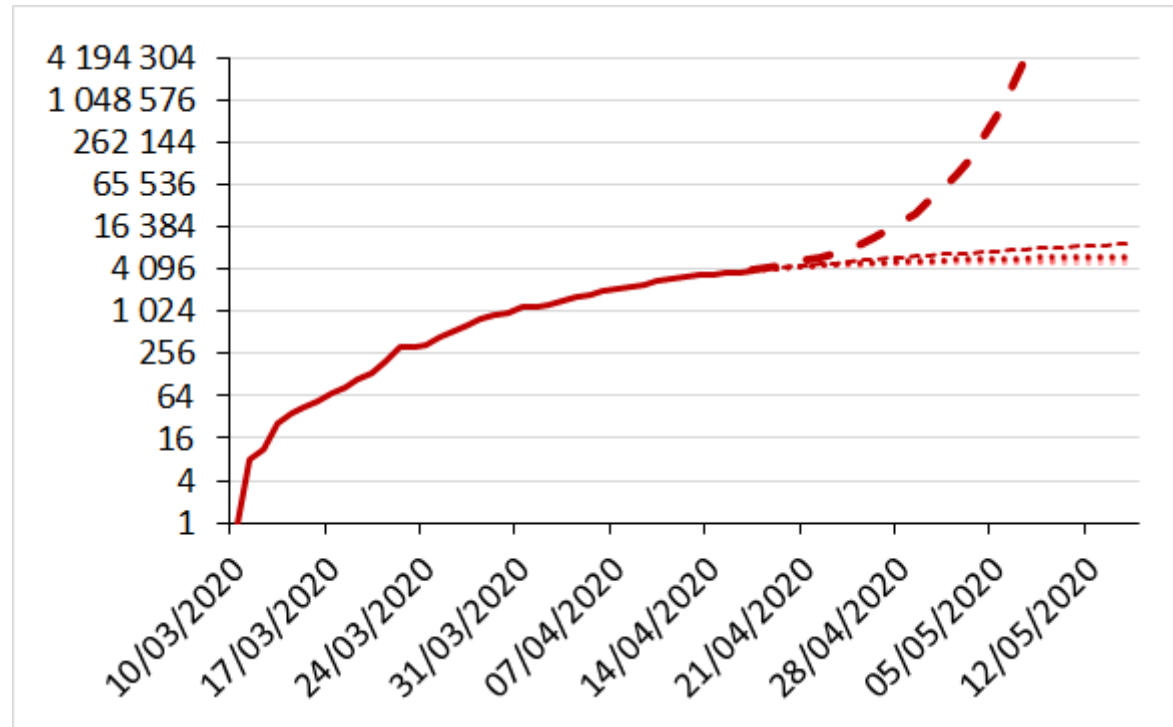


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Panama

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Cumulated

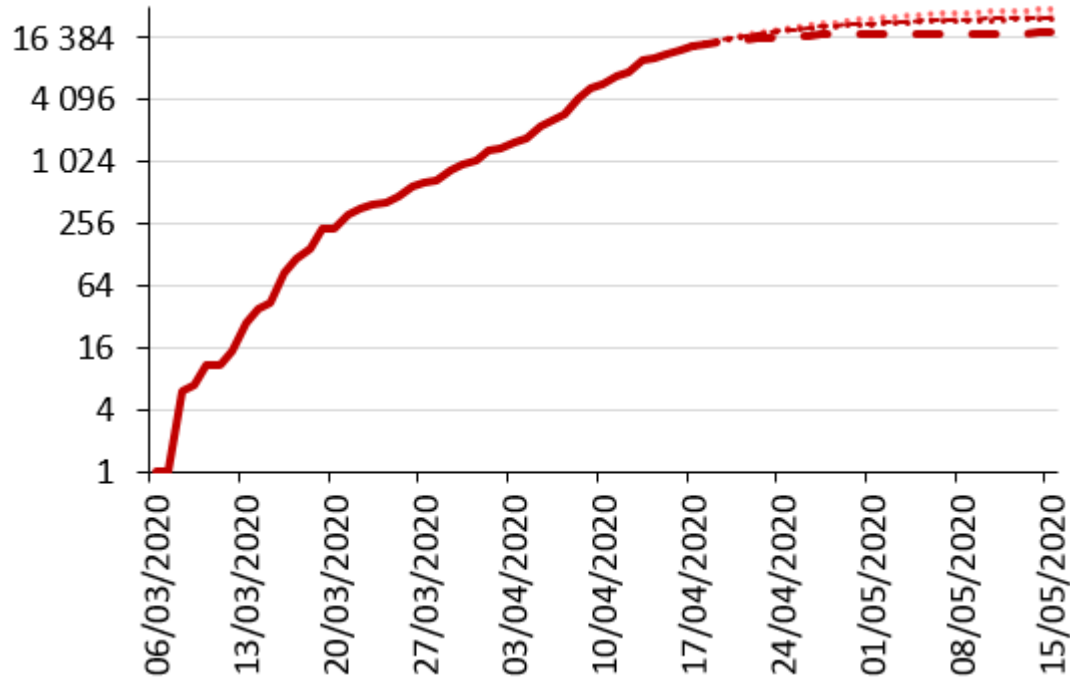


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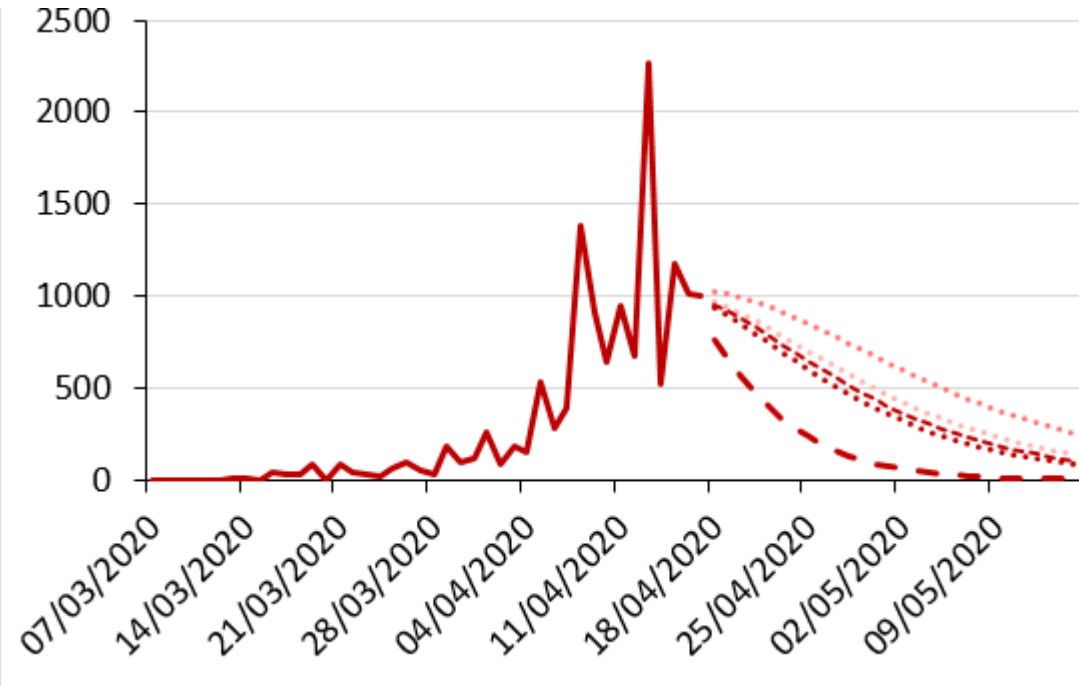
Peru

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

Cumulated



Daily

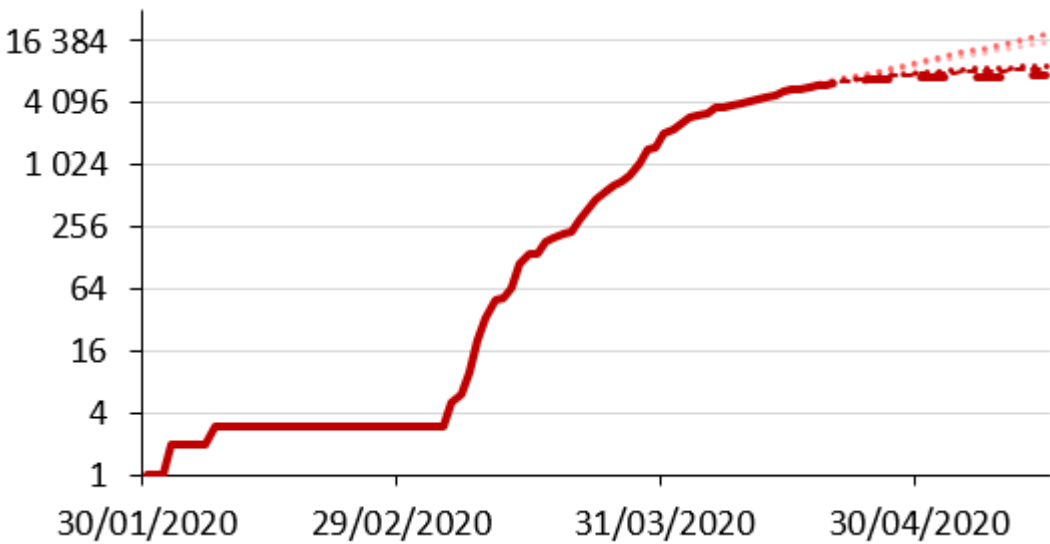


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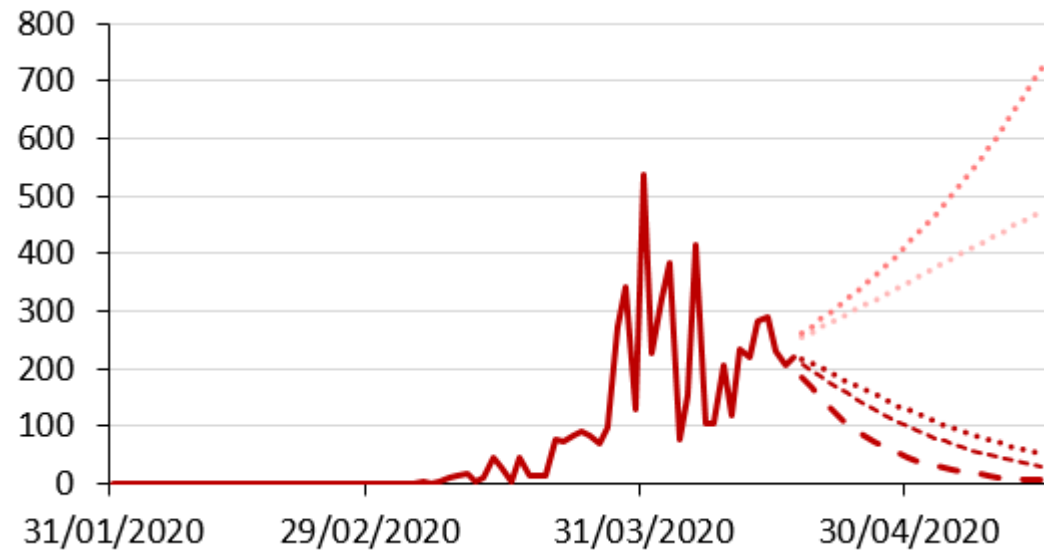
Philippines

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

Cumulated



Daily

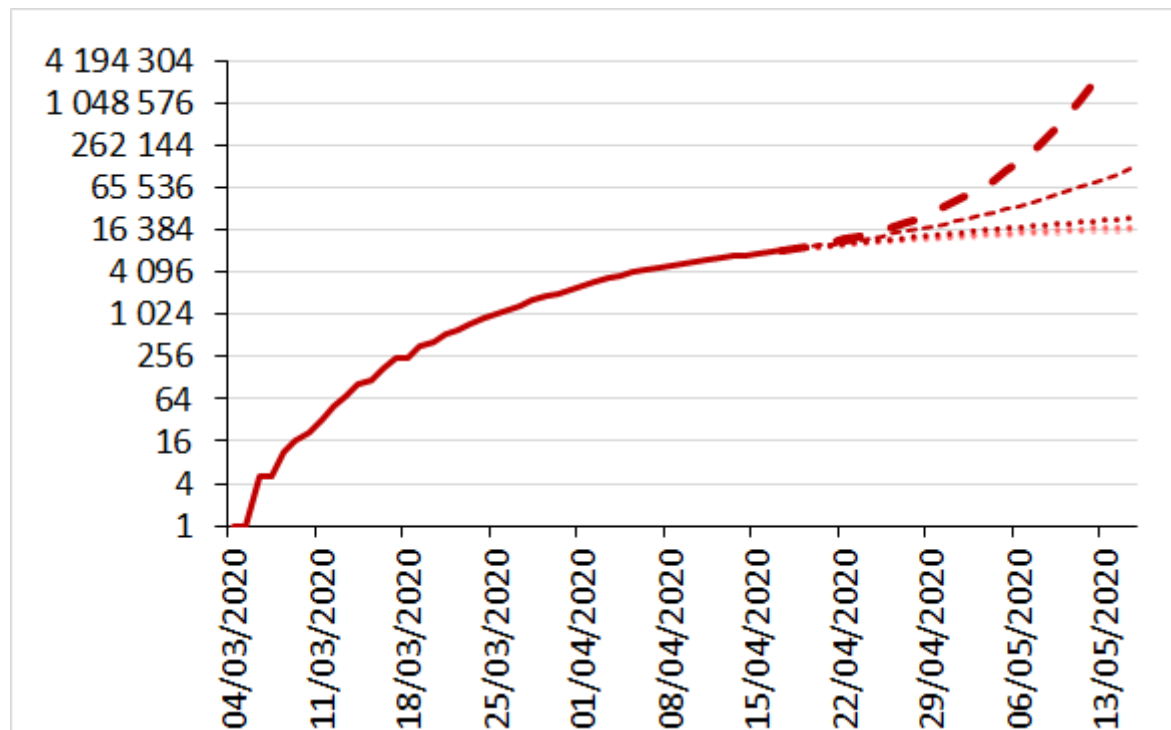


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Poland

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

Cumulated

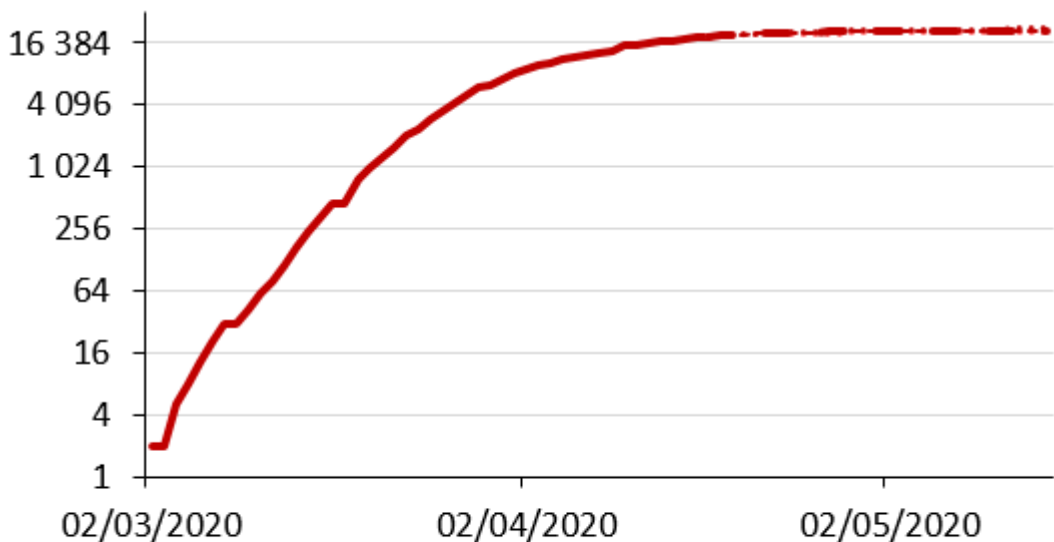


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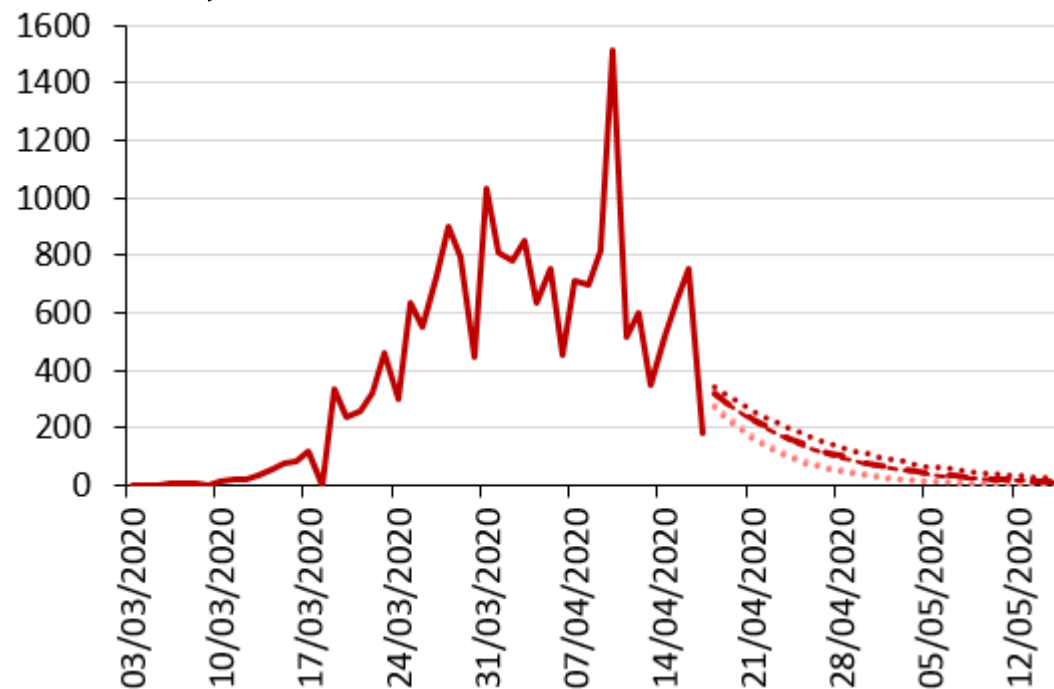
Portugal

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

Cumulated



Daily

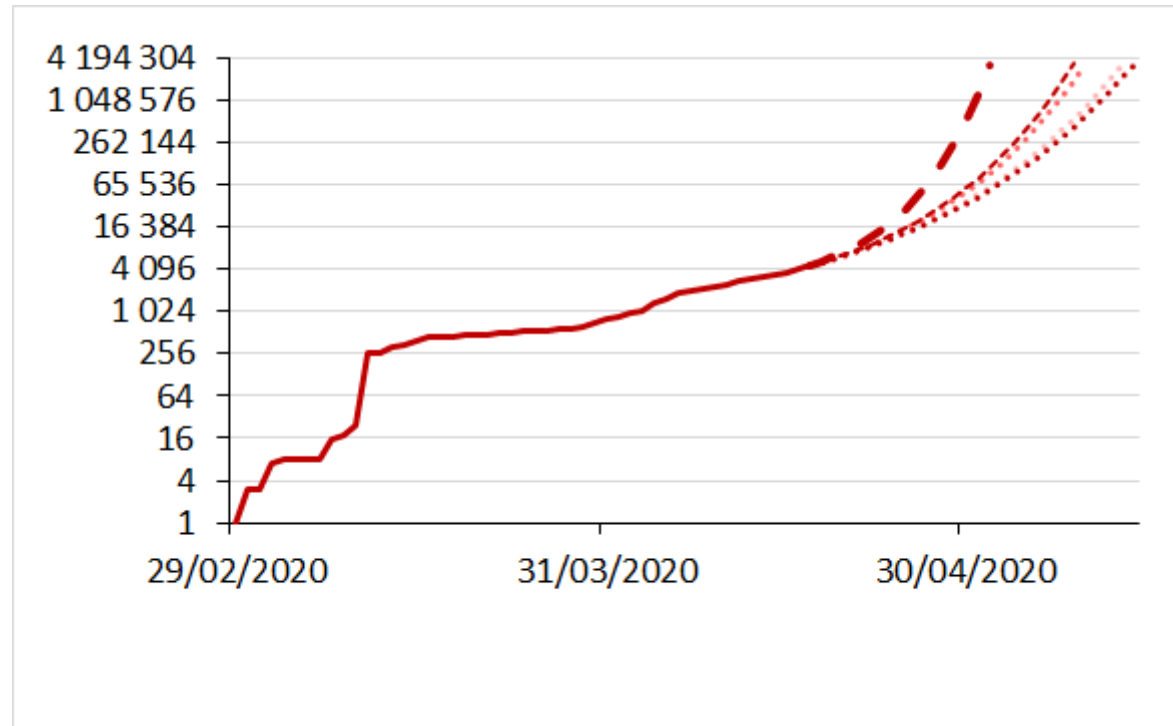


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Qatar

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

Cumulated

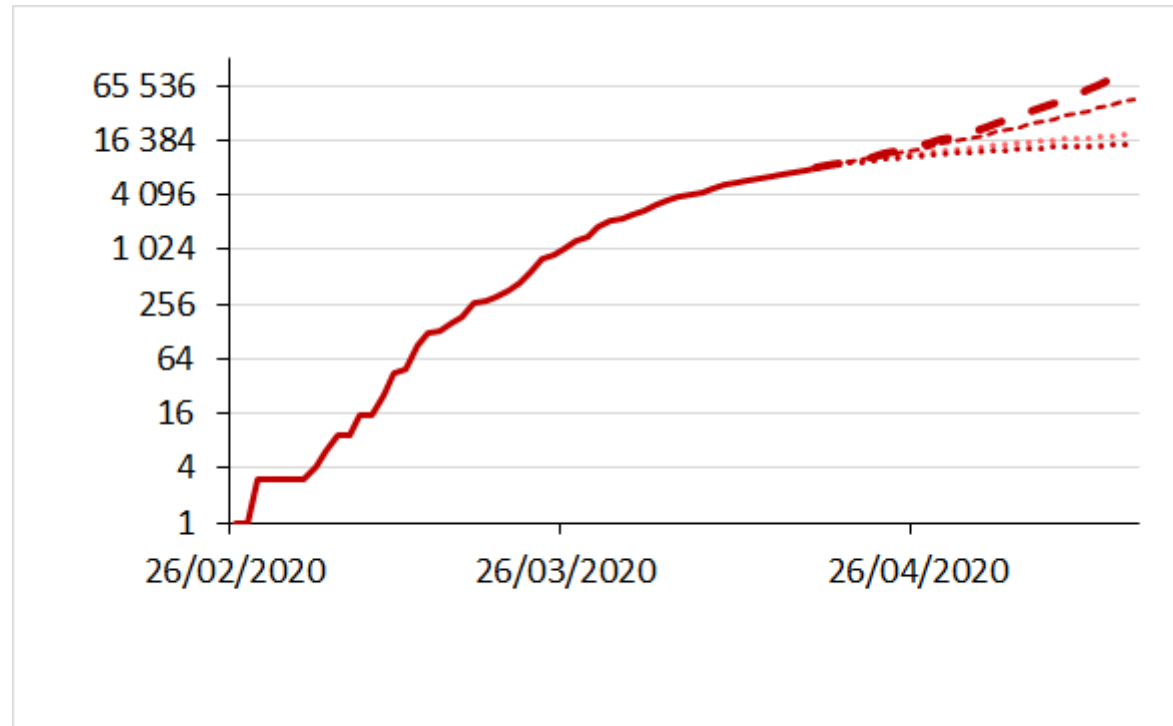


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Romania

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Cumulated

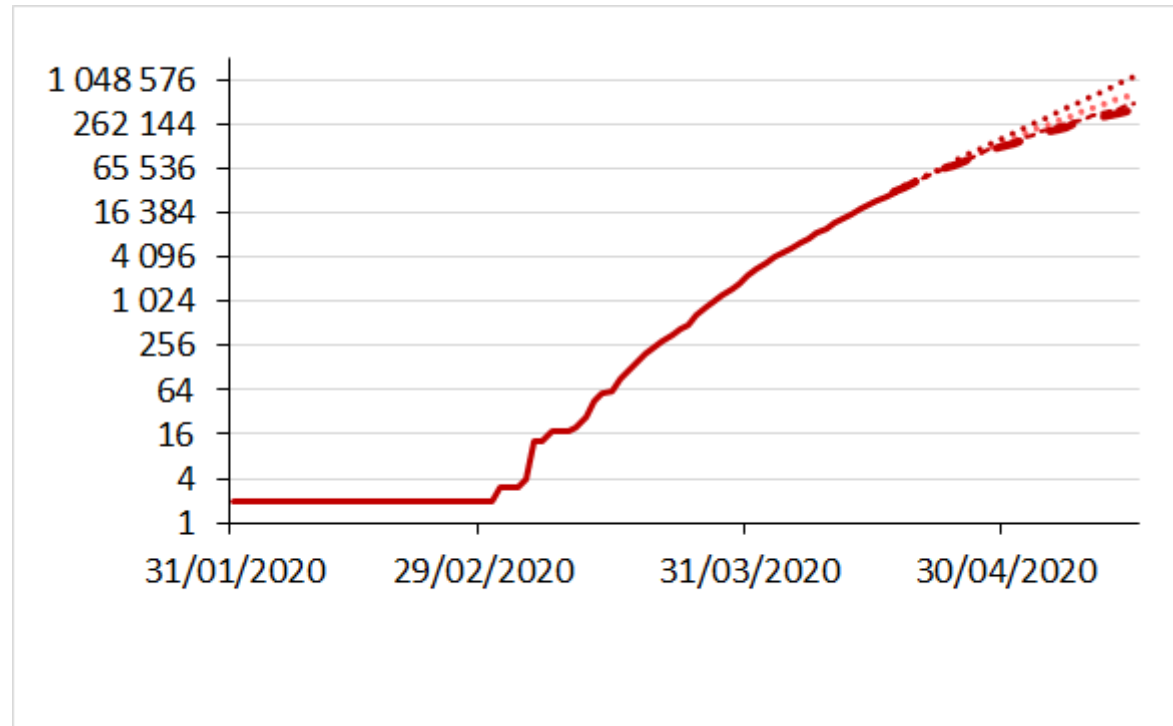


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Russia

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Cumulated

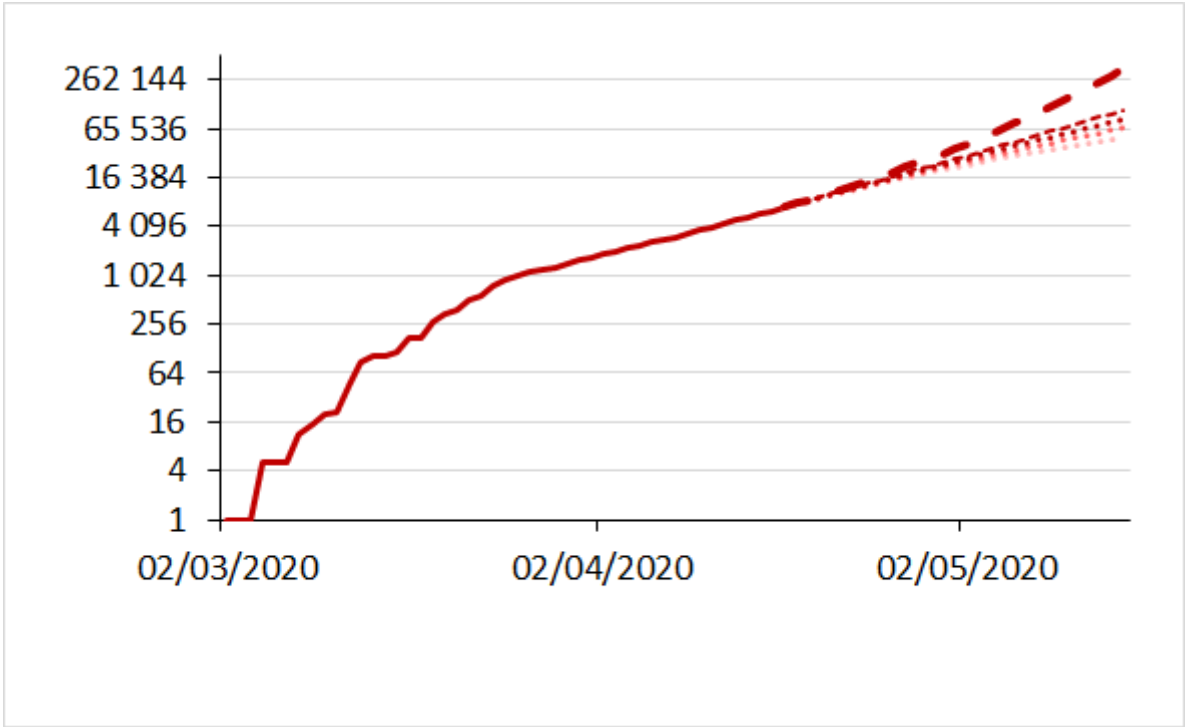


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Saudi Arabia

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Cumulated

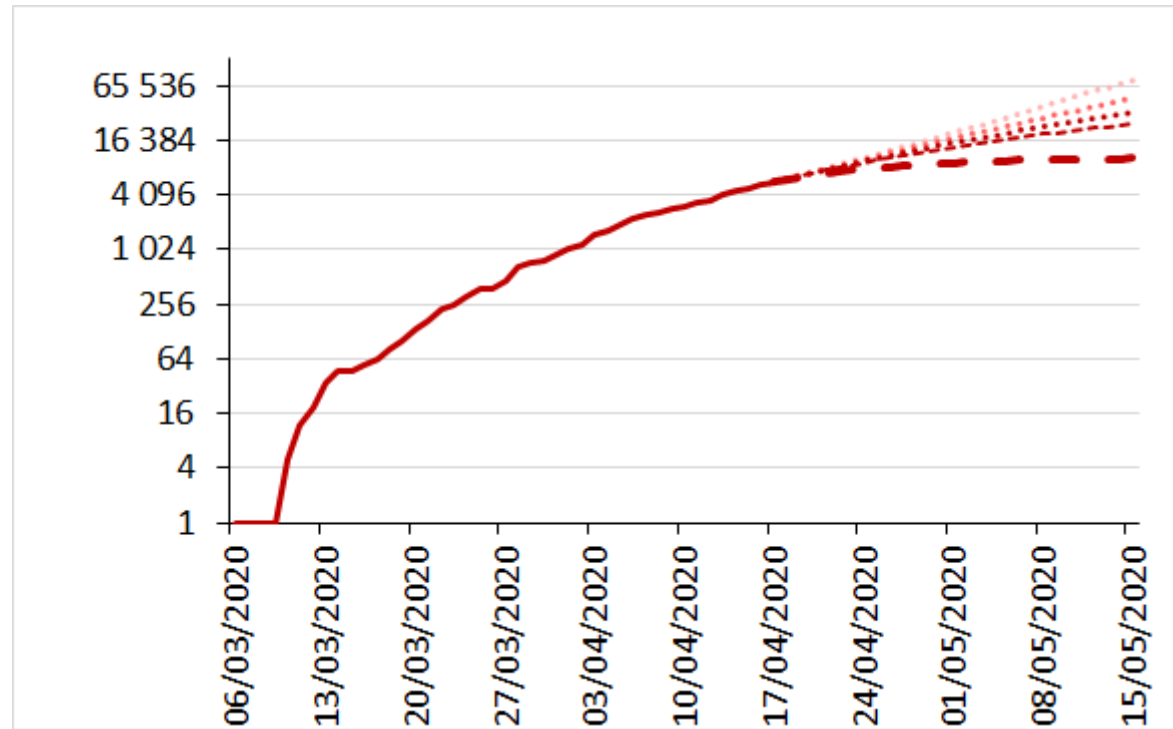


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Serbia

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Cumulated

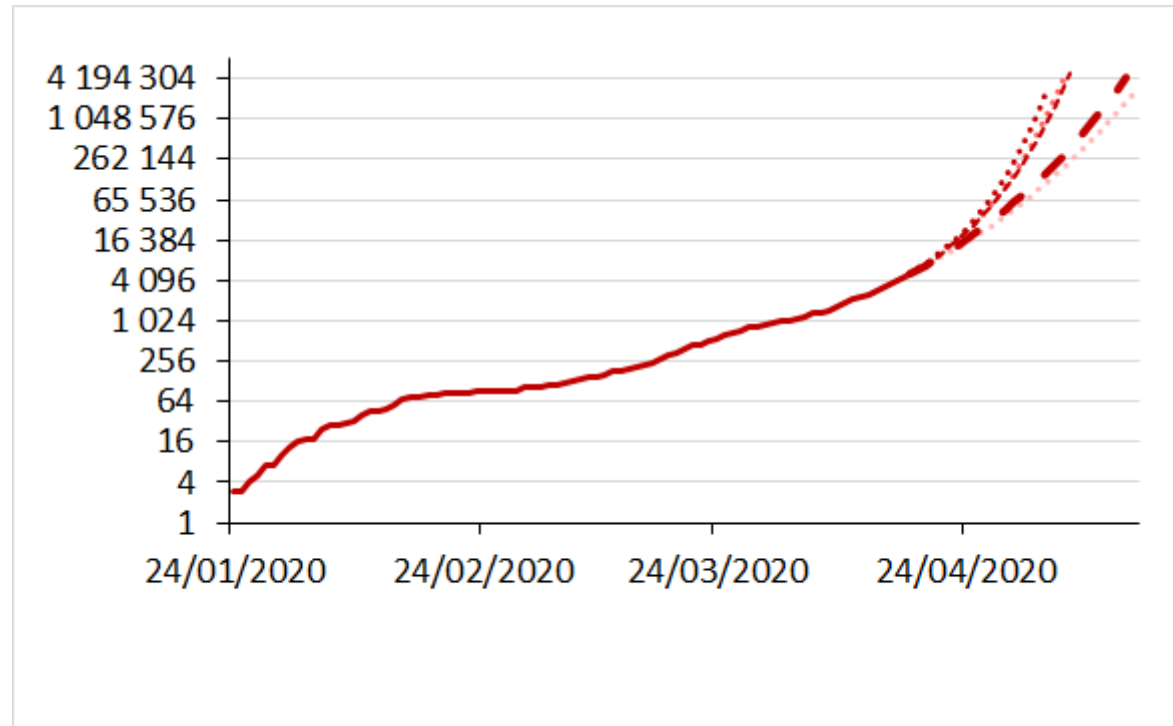


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Singapore

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

Cumulated

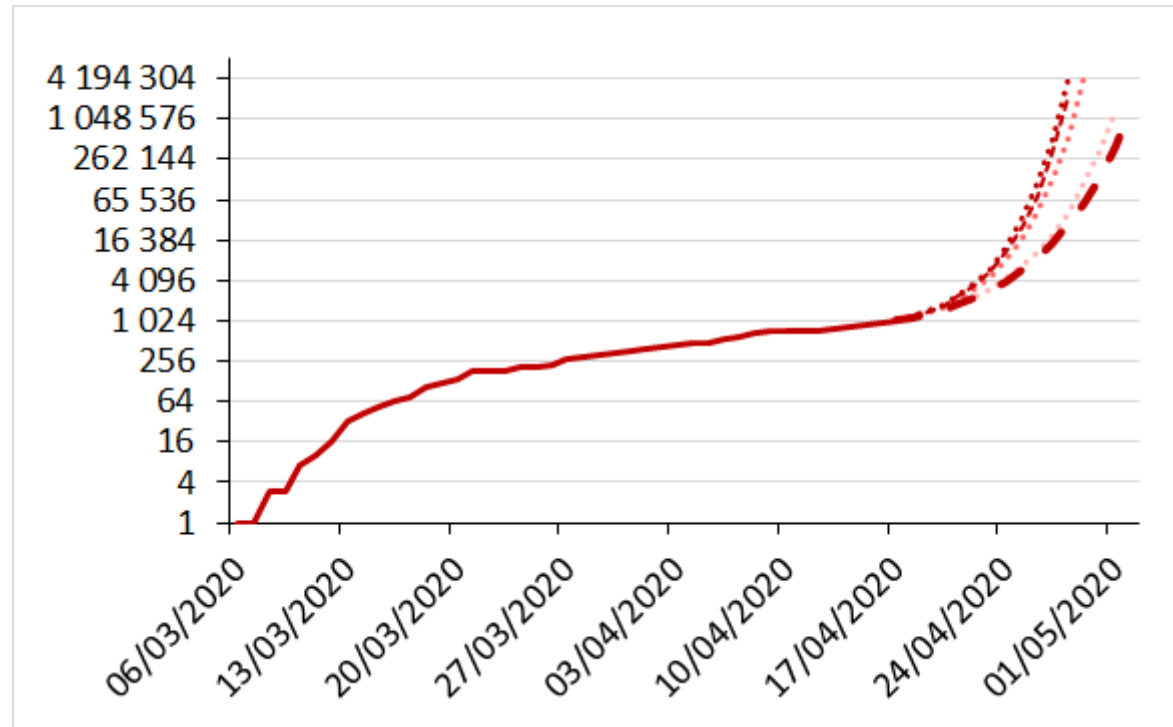


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Slovakia

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

Cumulated

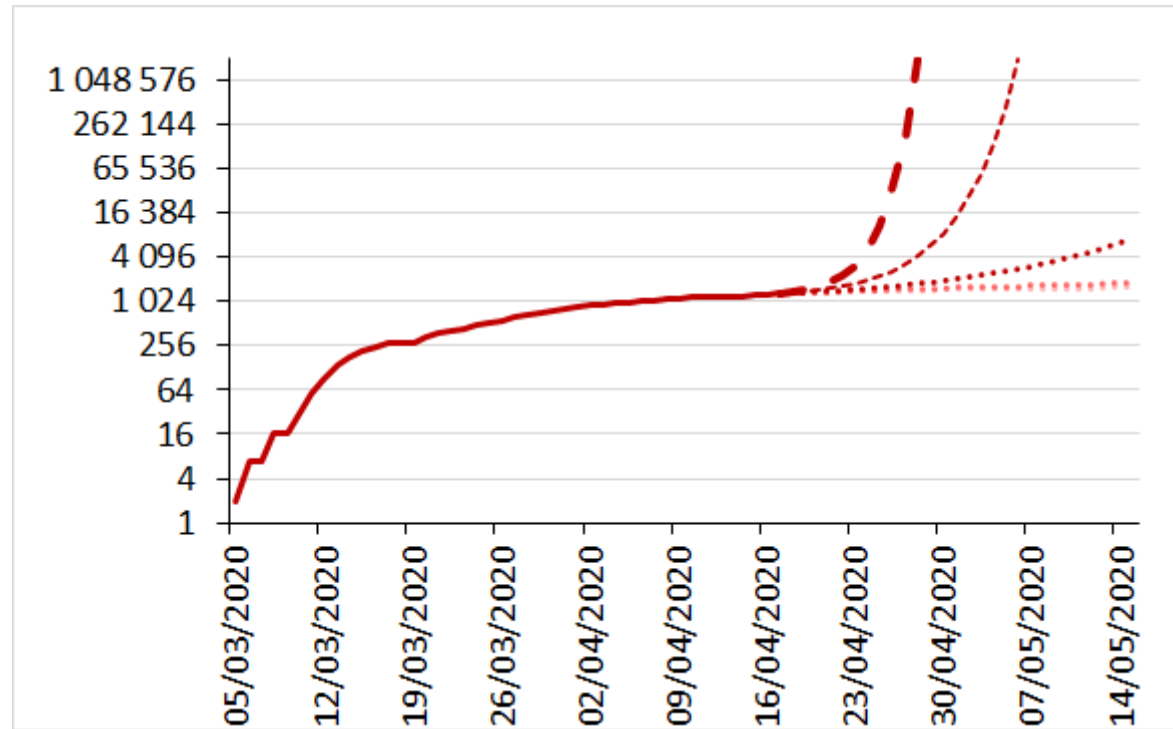


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Slovenia

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

Cumulated

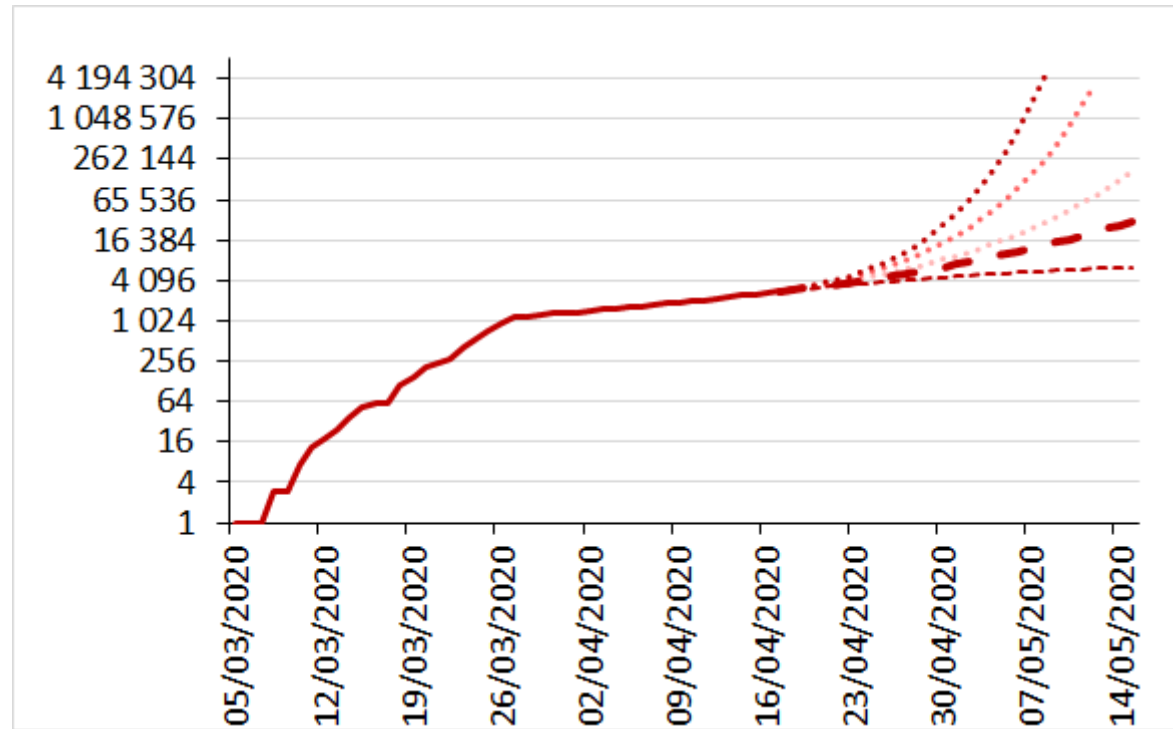


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South Africa

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Cumulated

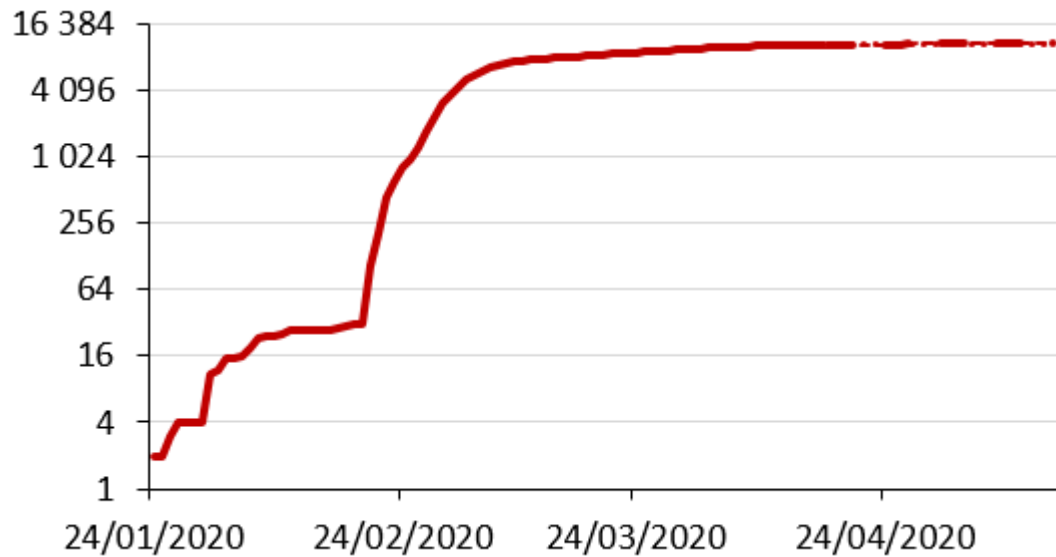


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South Korea

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Cumulated



Daily

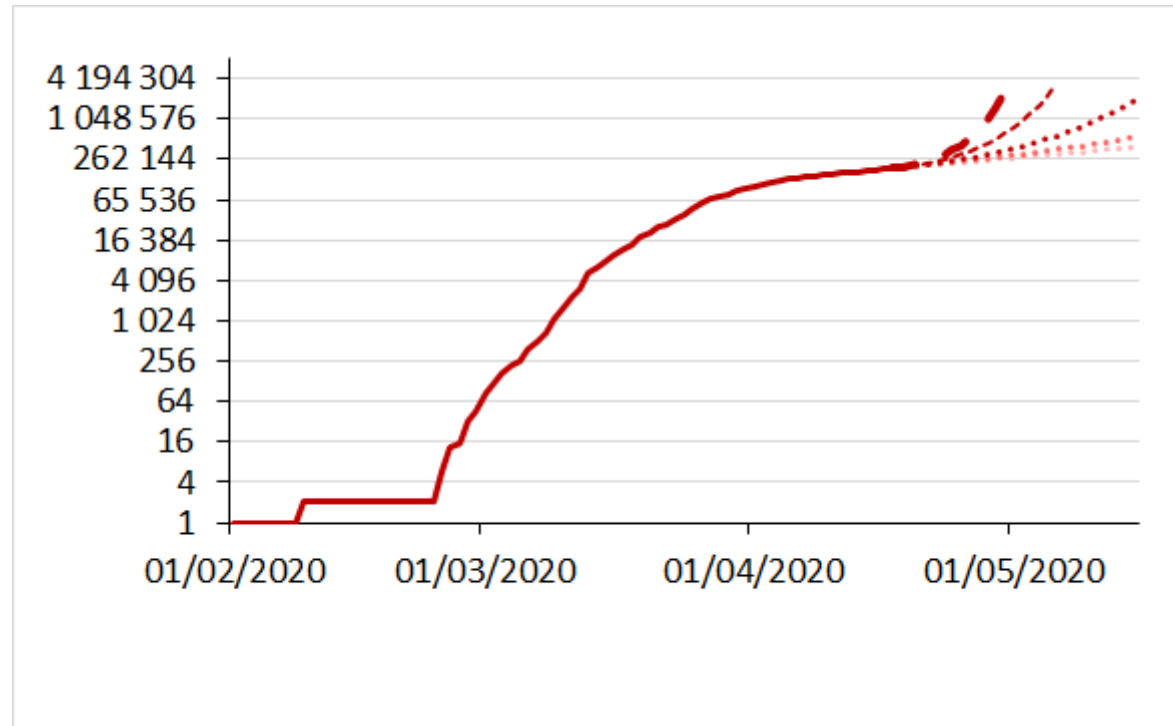


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Spain

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Cumulated

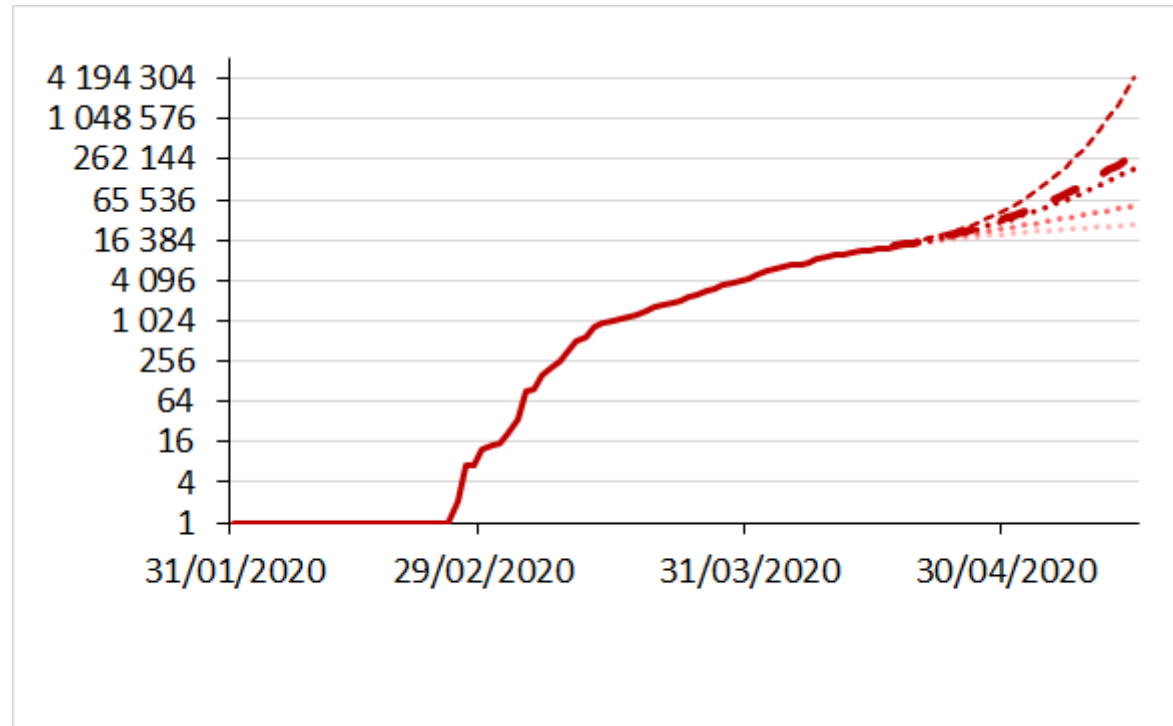


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Sweden

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

Cumulated

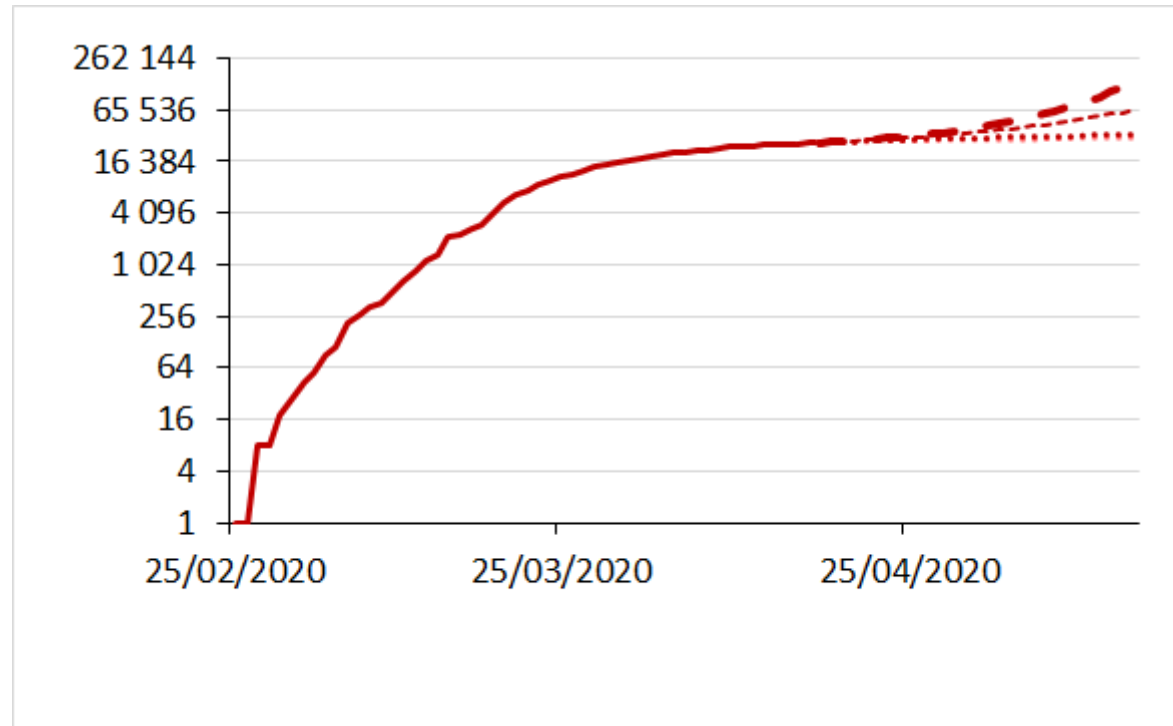


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Switzerland

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Cumulated

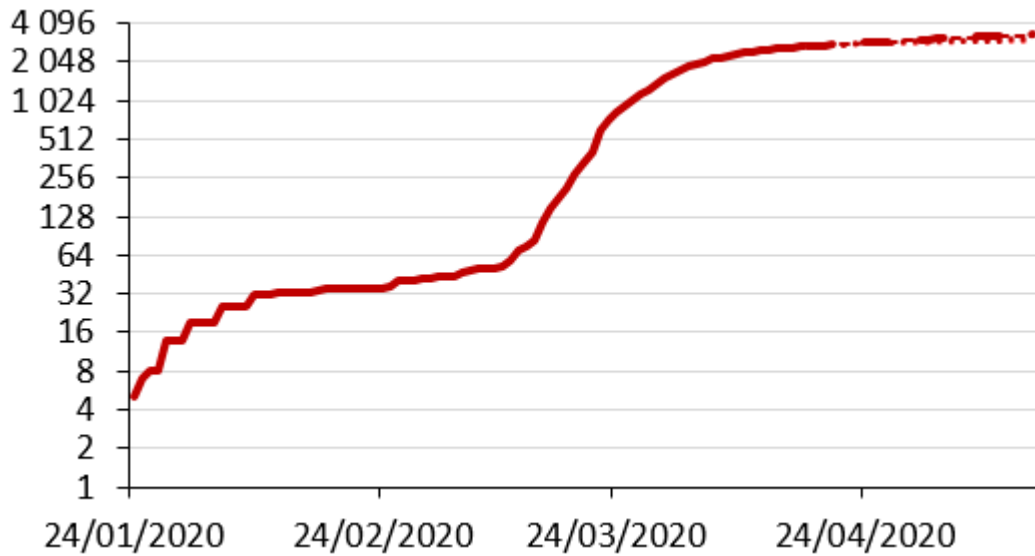


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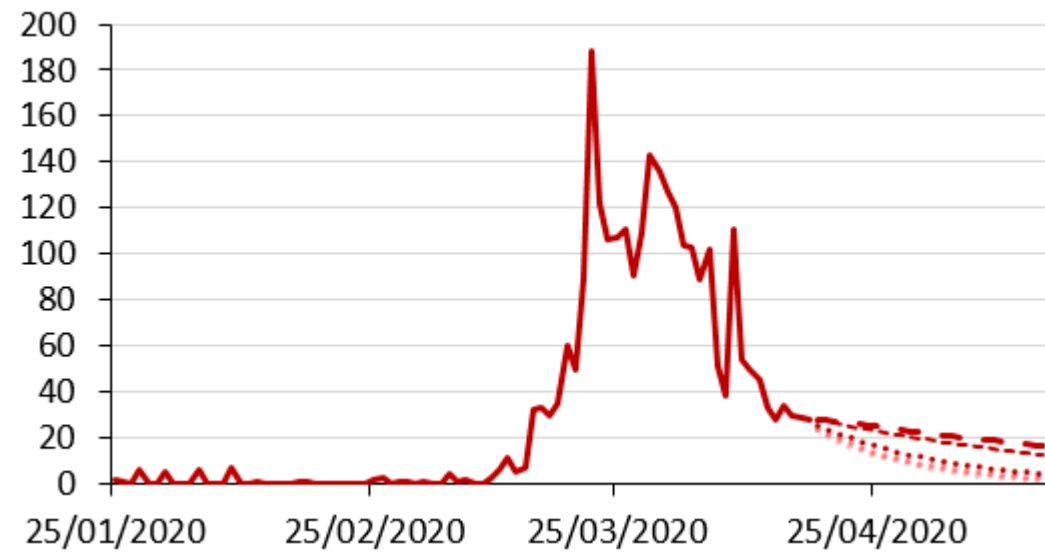
Thailand

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

Cumulated



Daily

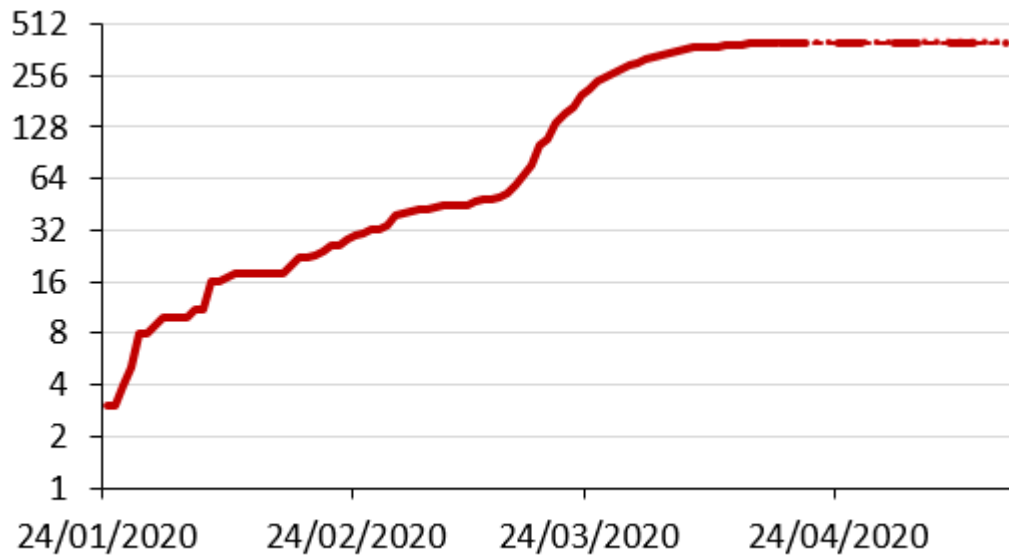


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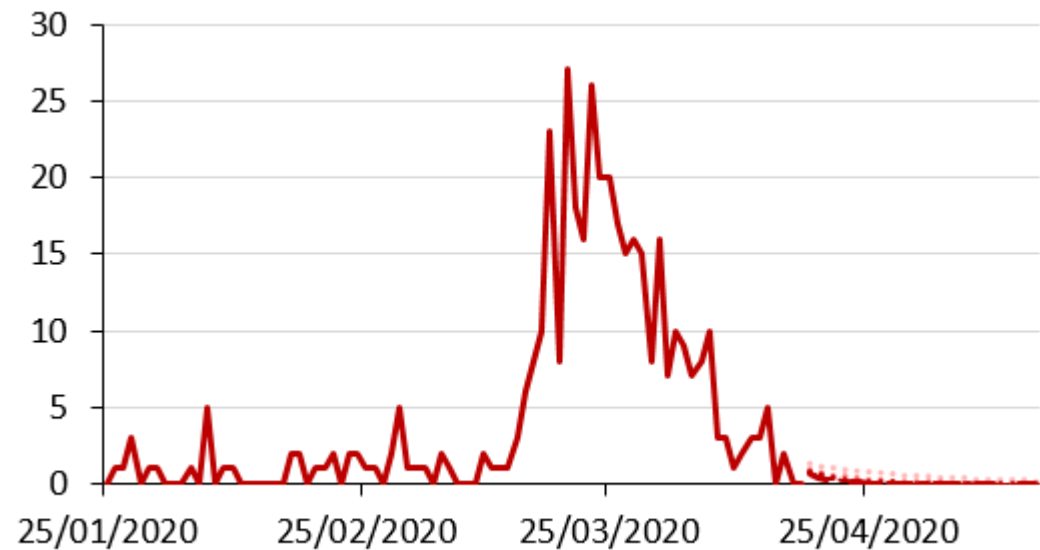
Taiwan

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

Cumulated



Daily

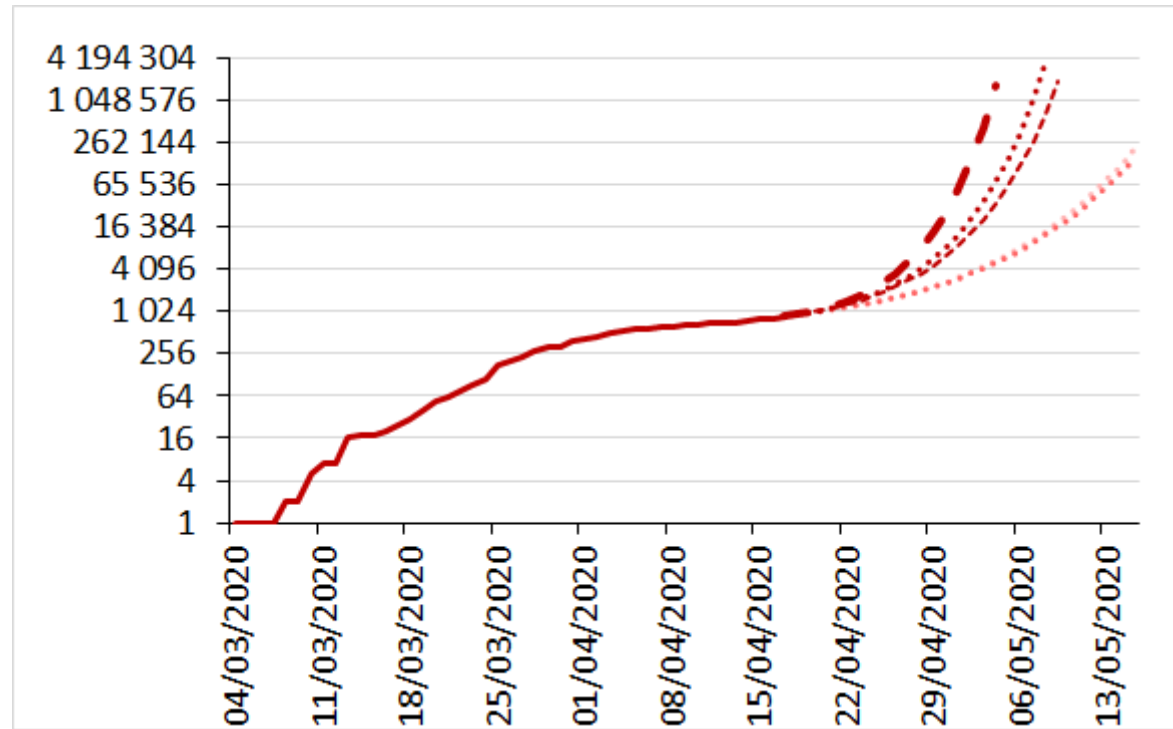


Data: The Johns Hopkins University, Politolog.com

Tunisia

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

Cumulated

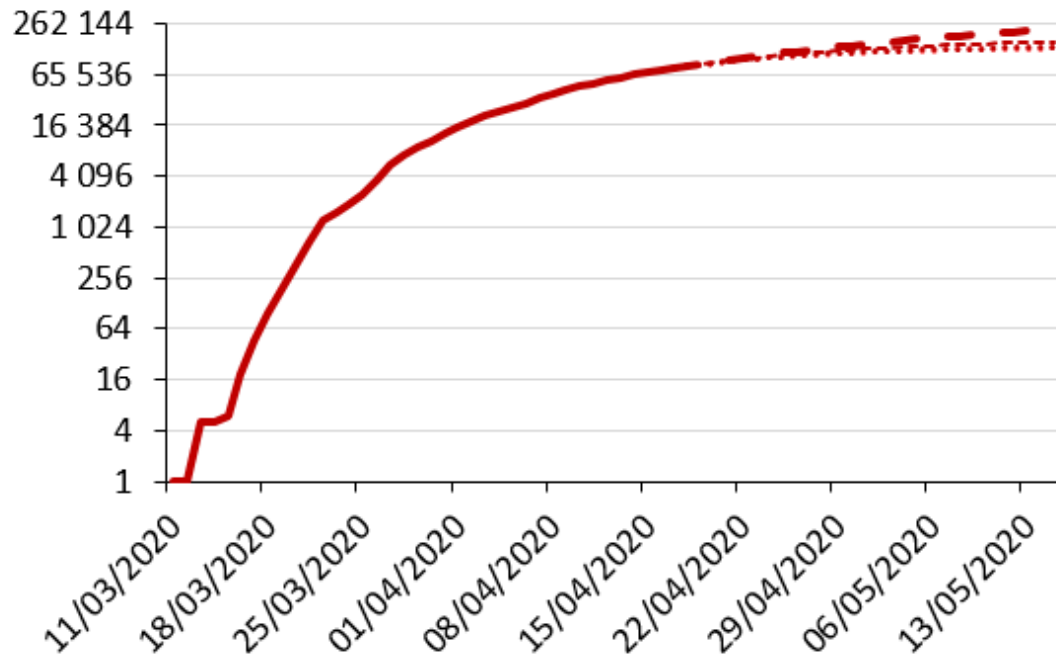


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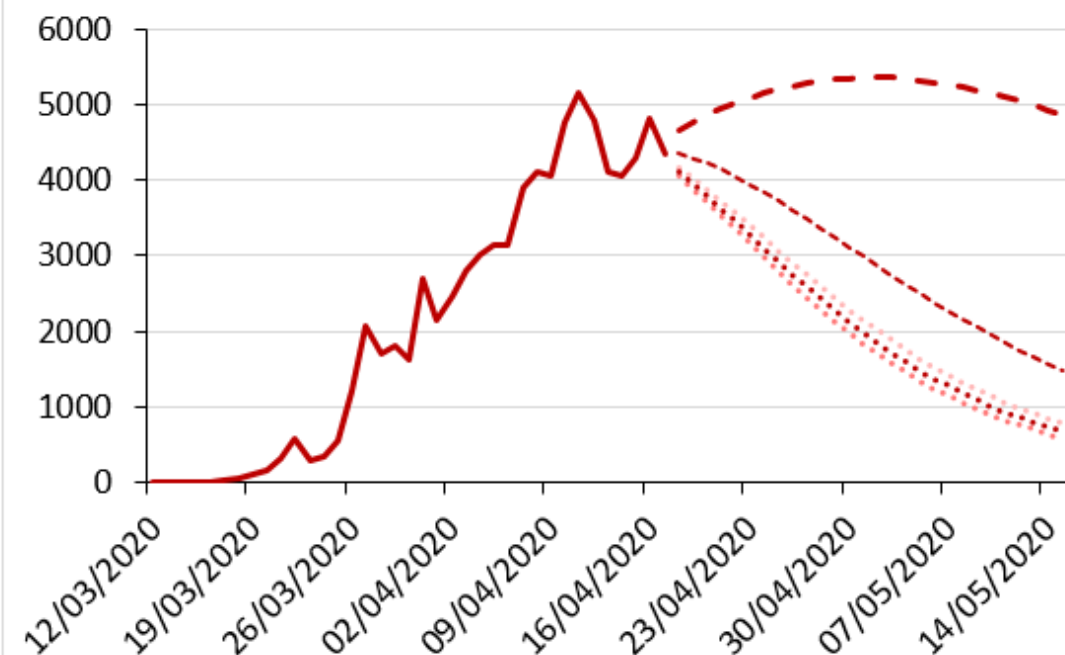
Turkey

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

Cumulated



Daily

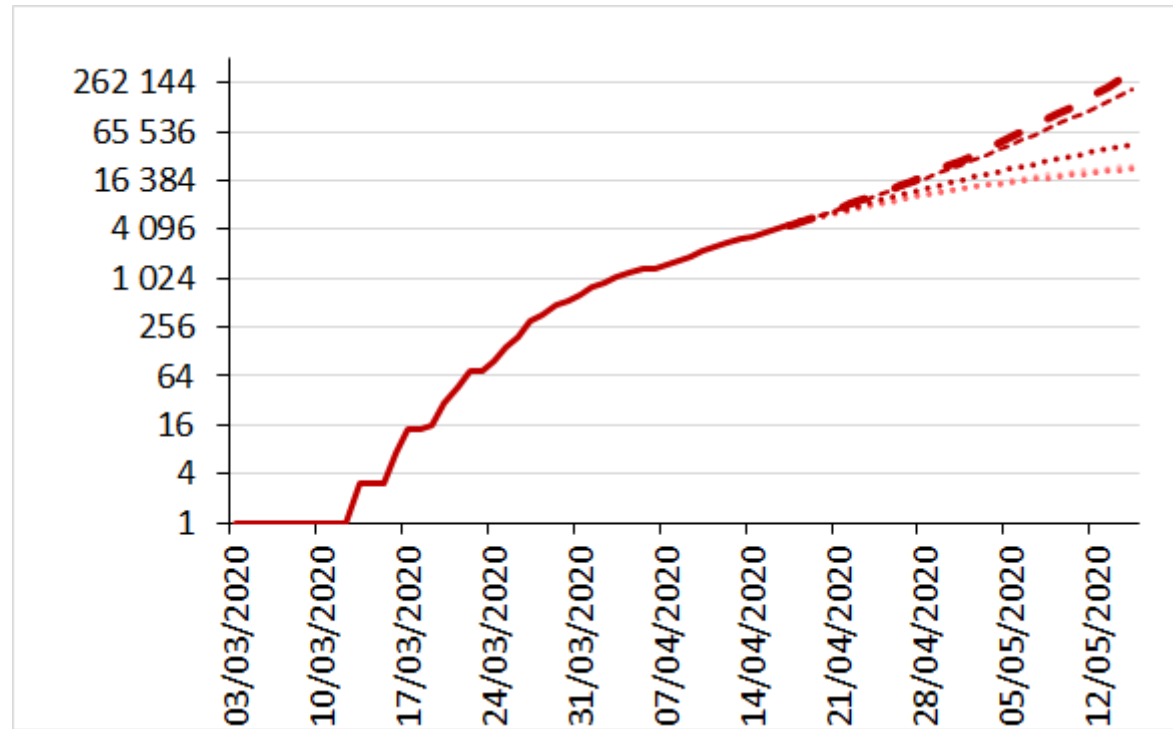


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Ukraine

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

Cumulated

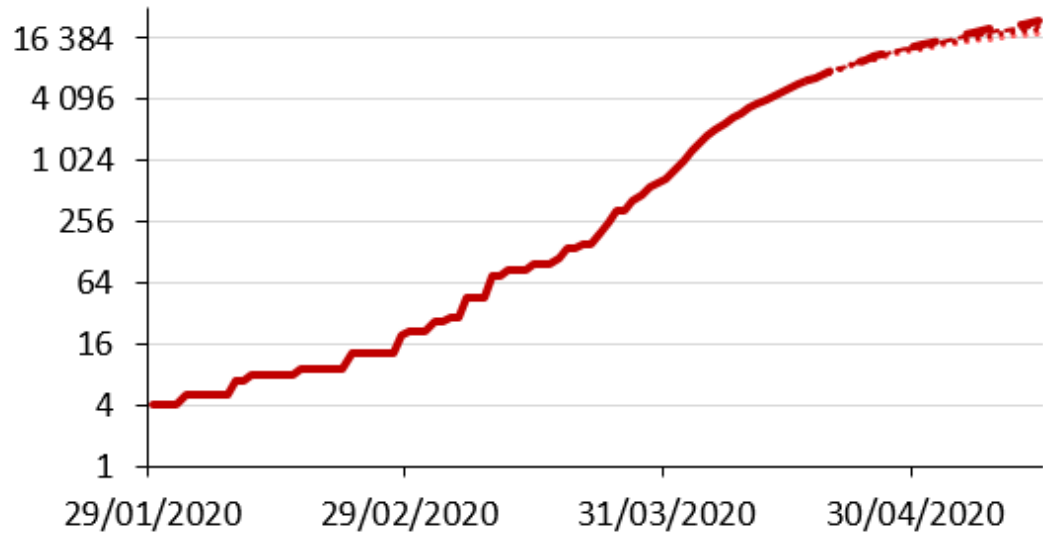


Data: The Johns Hopkins University, Politolog.com

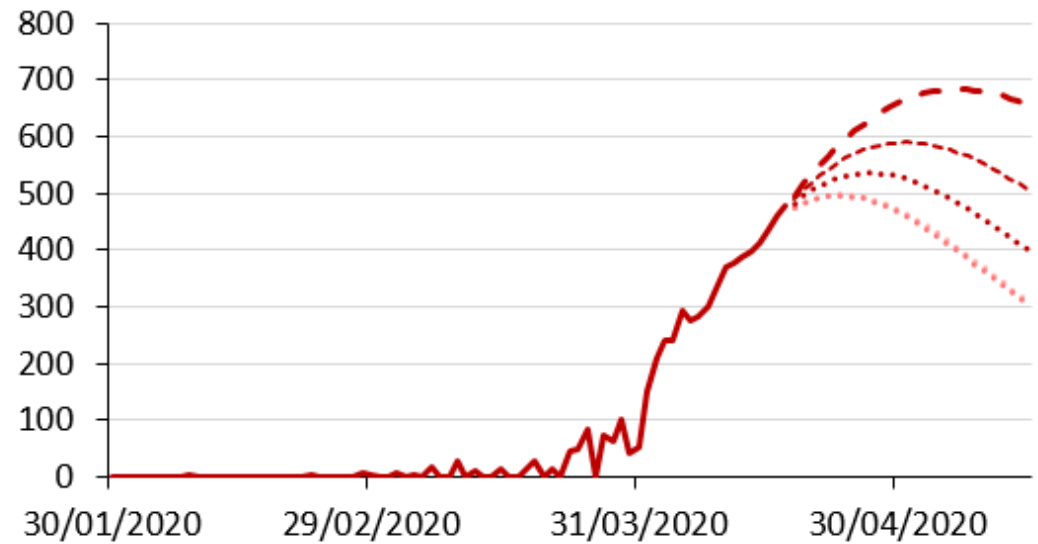
United Arab Emirates

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

Cumulated



Daily

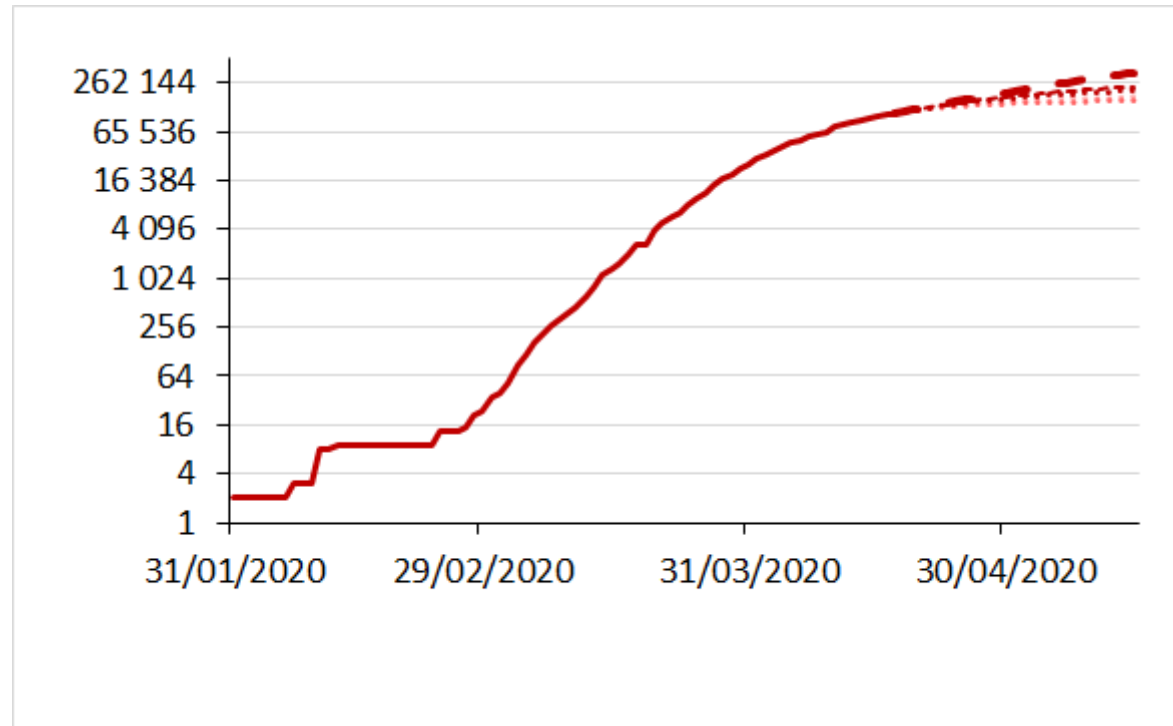


Data: The Johns Hopkins University, Politolog.com

United Kingdom

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

Cumulated

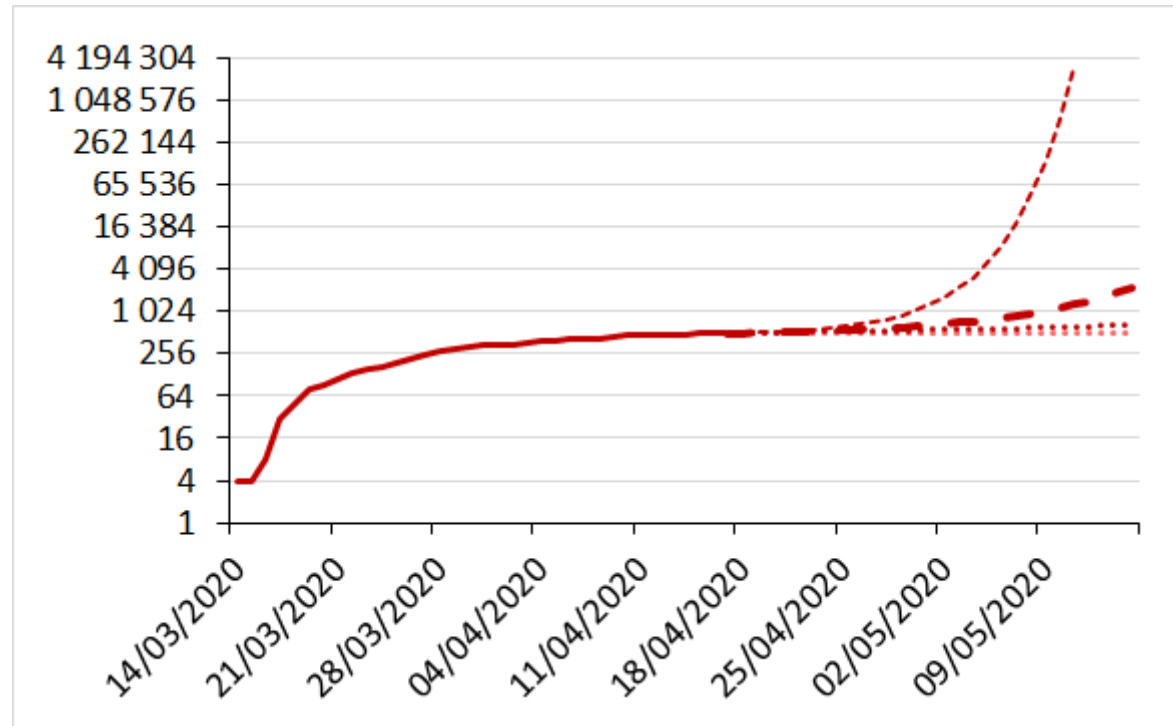


Data: The Johns Hopkins University, Politolog.com

Uruguay

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

Cumulated

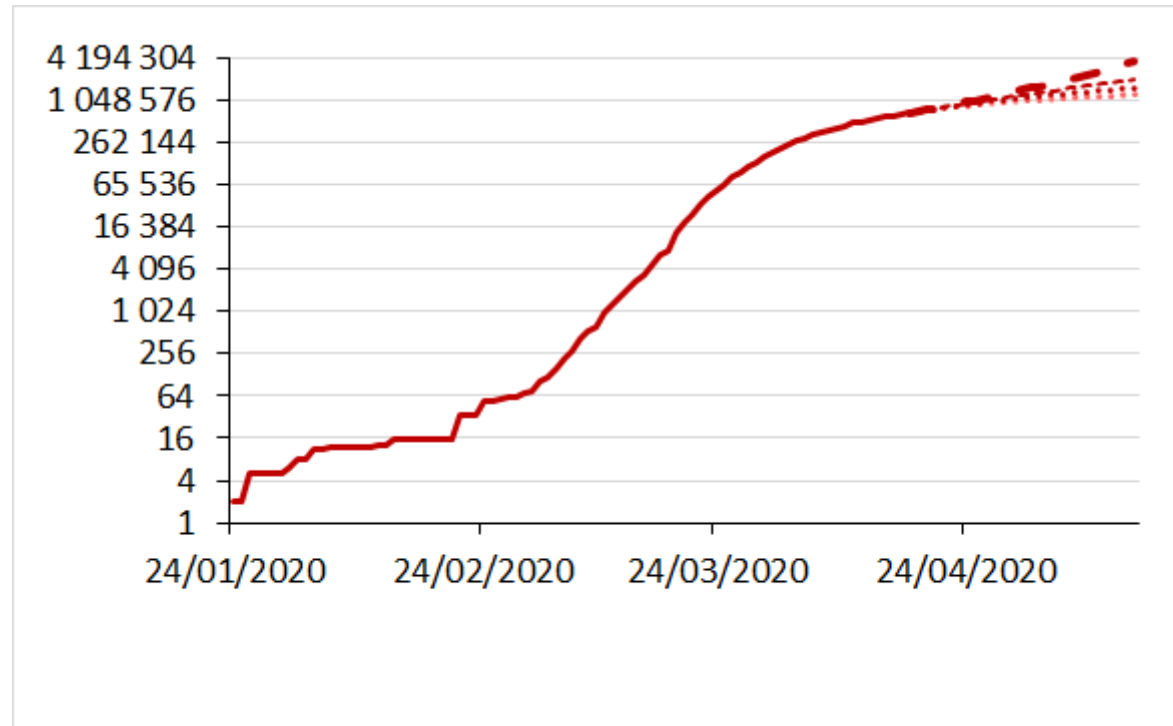


Data: The Johns Hopkins University, Politolog.com

USA

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

Cumulated



Data: The Johns Hopkins University, Politolog.com



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