

13 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.

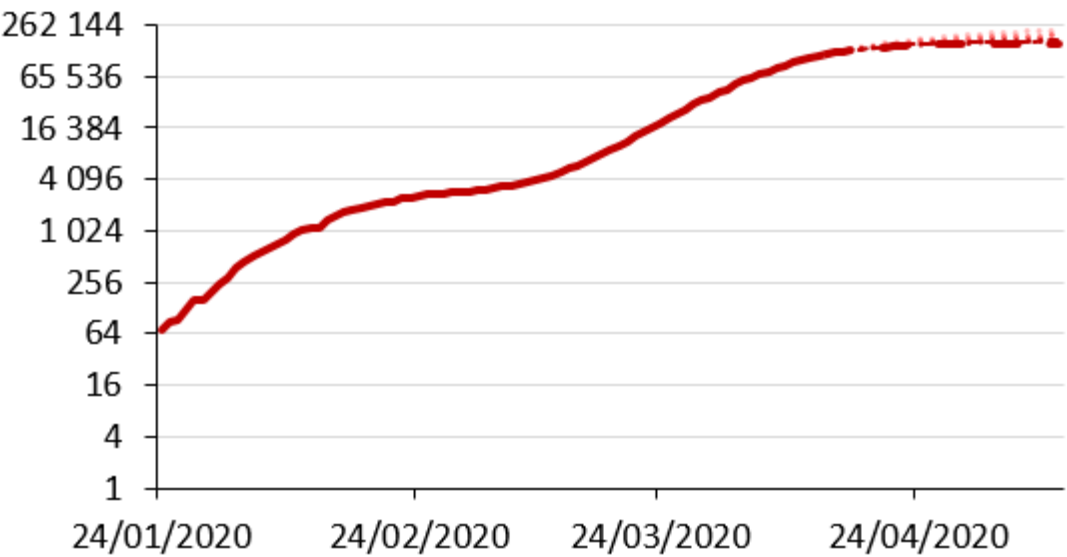
During the early days of an epidemic, projections can be extremely volatile, and it is therefore recommended not to draw black-and-white conclusions from a daily report, but to follow the evolution over many days.

DEATHS - PROJECTIONS

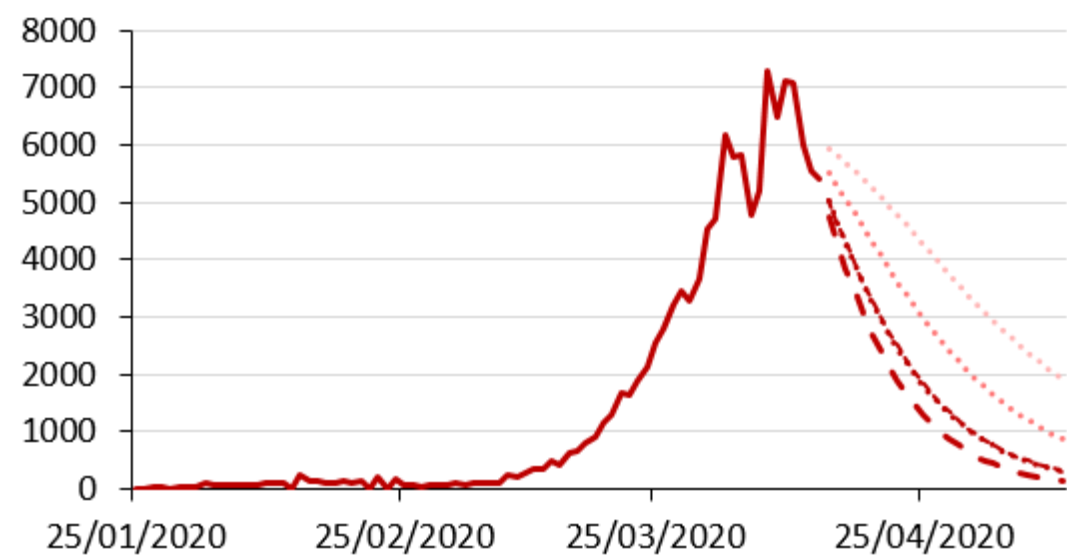
World

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

Cumulated



Daily

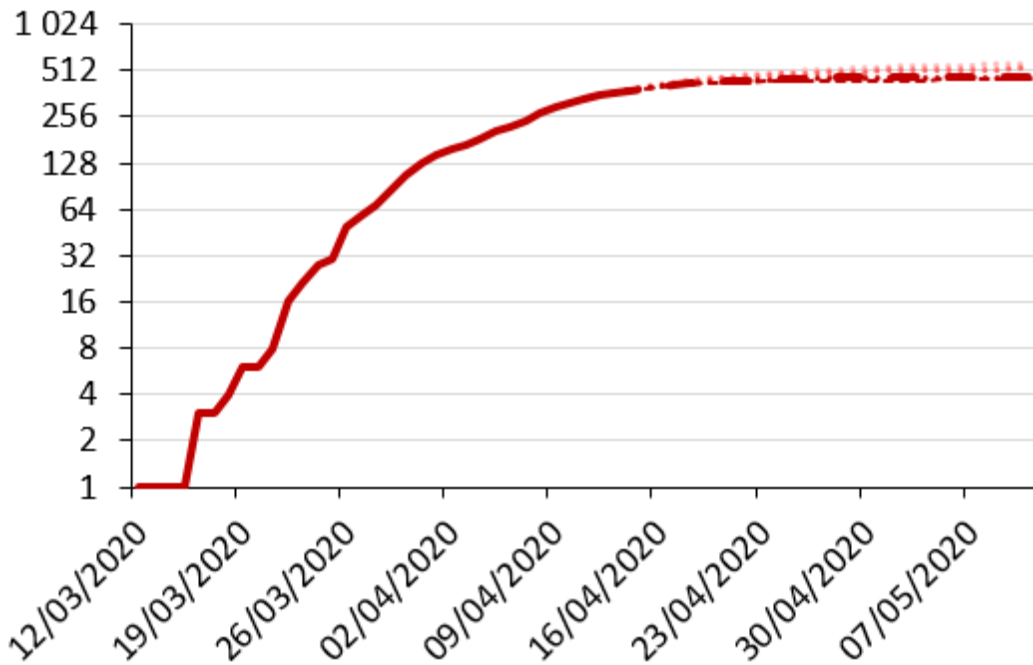


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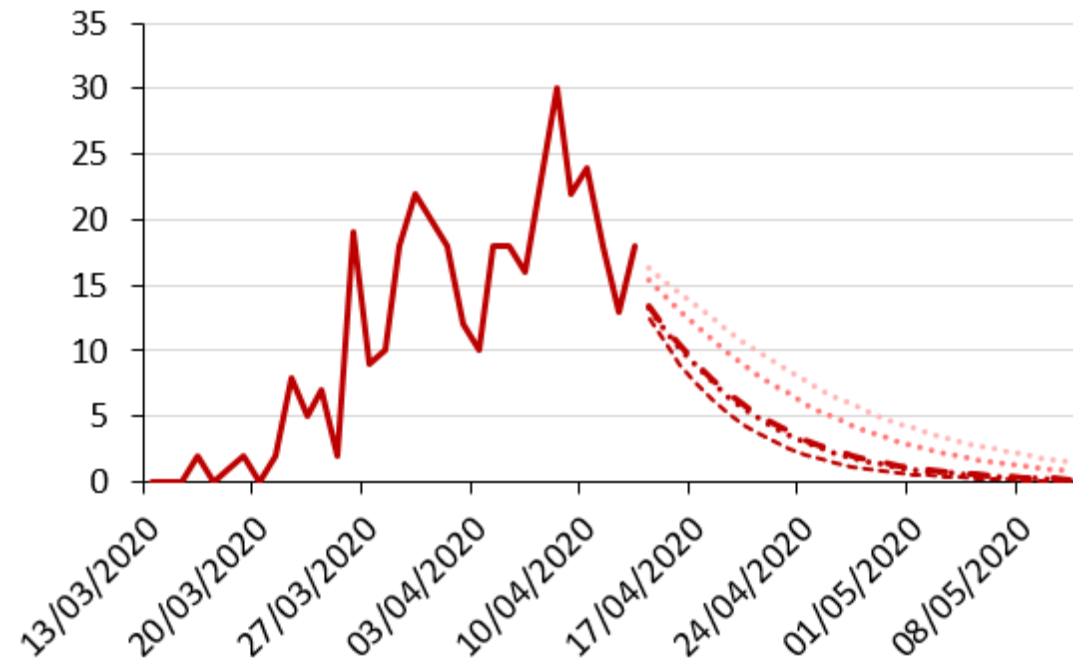
Austria

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

Cumulated



Daily

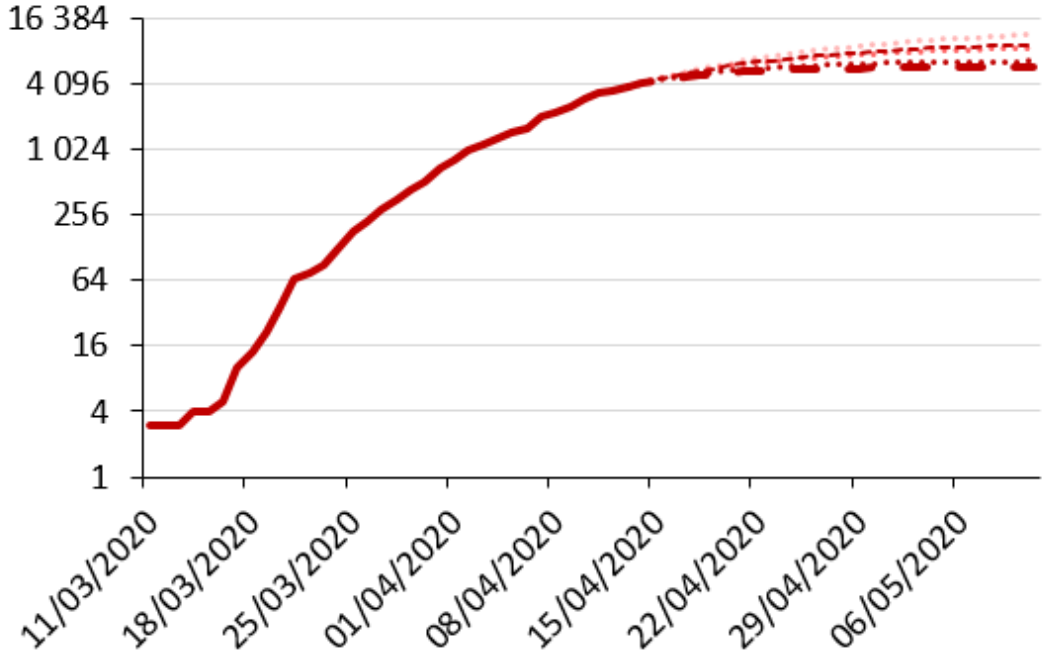


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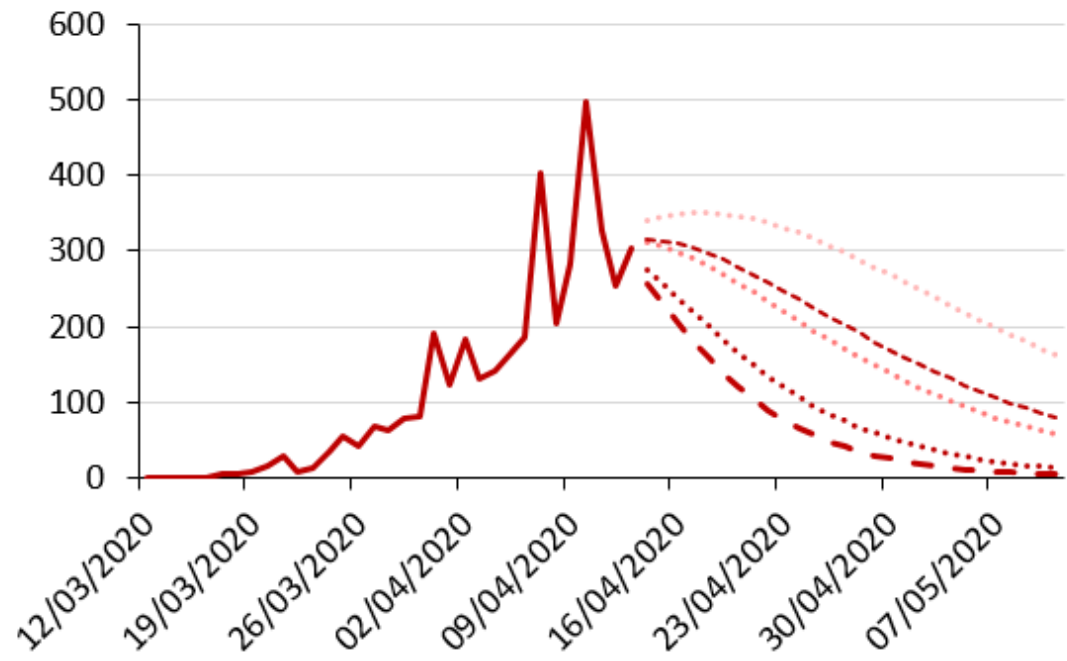
Belgium

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

Cumulated



Daily

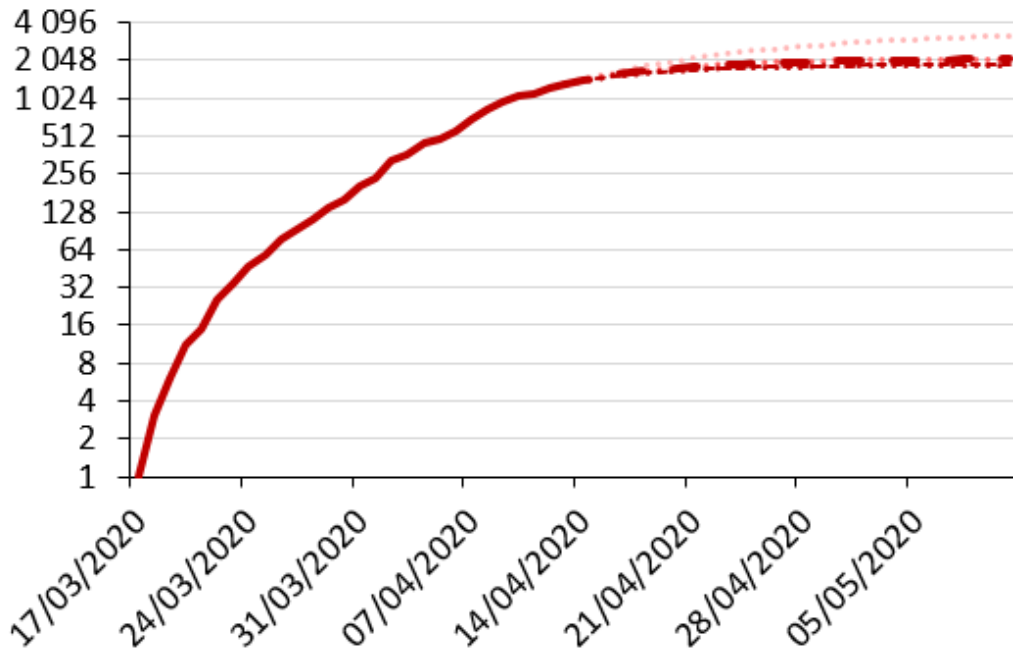


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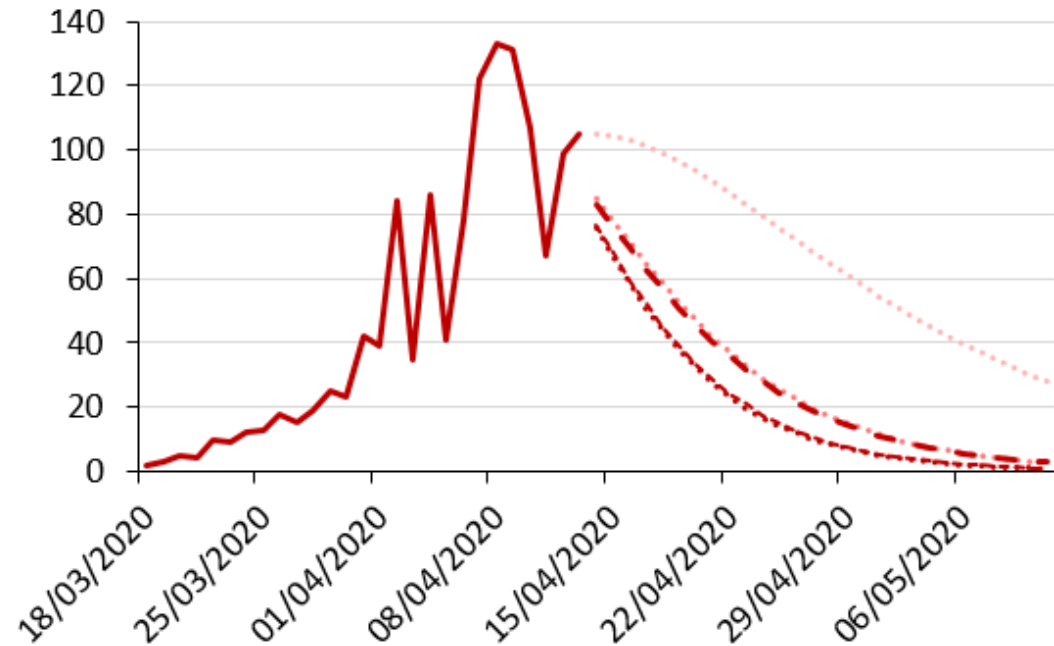
Brazil

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

Cumulated



Daily

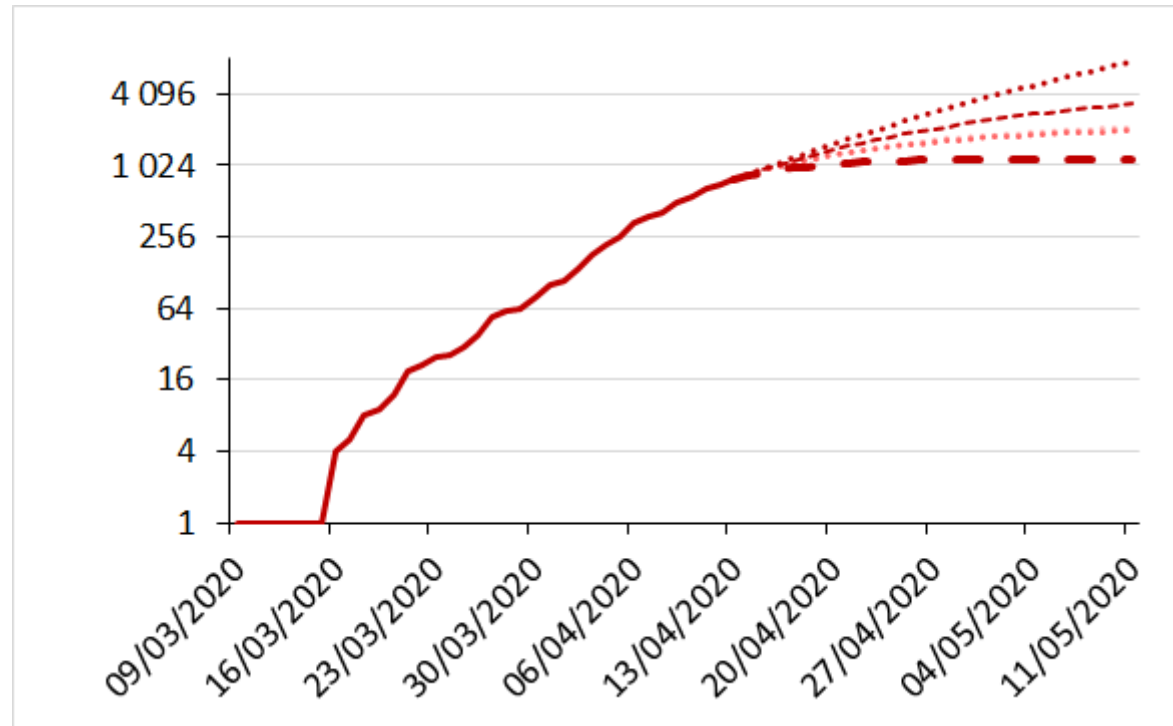


Data: The Johns Hopkins University, Politolog.com

Canada

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

Cumulated

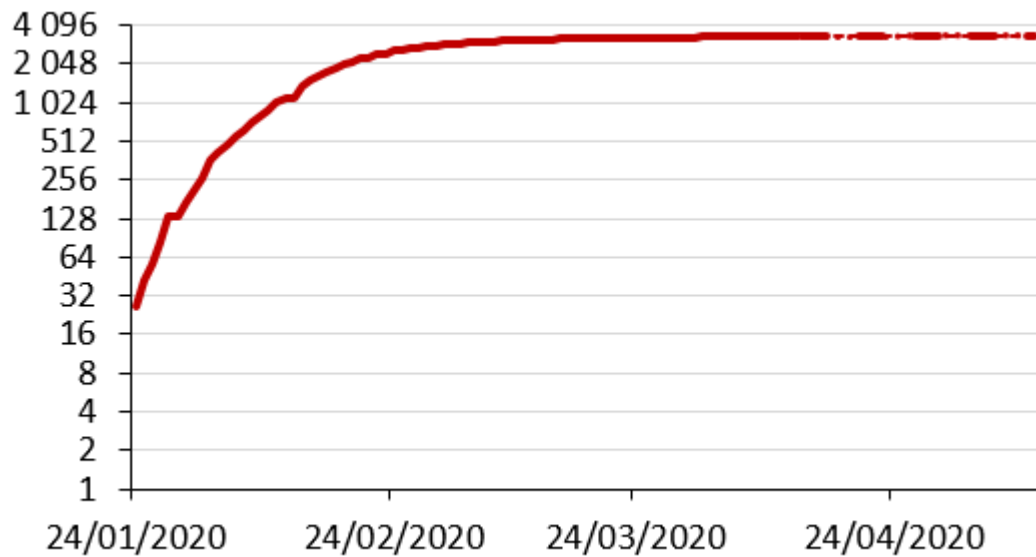


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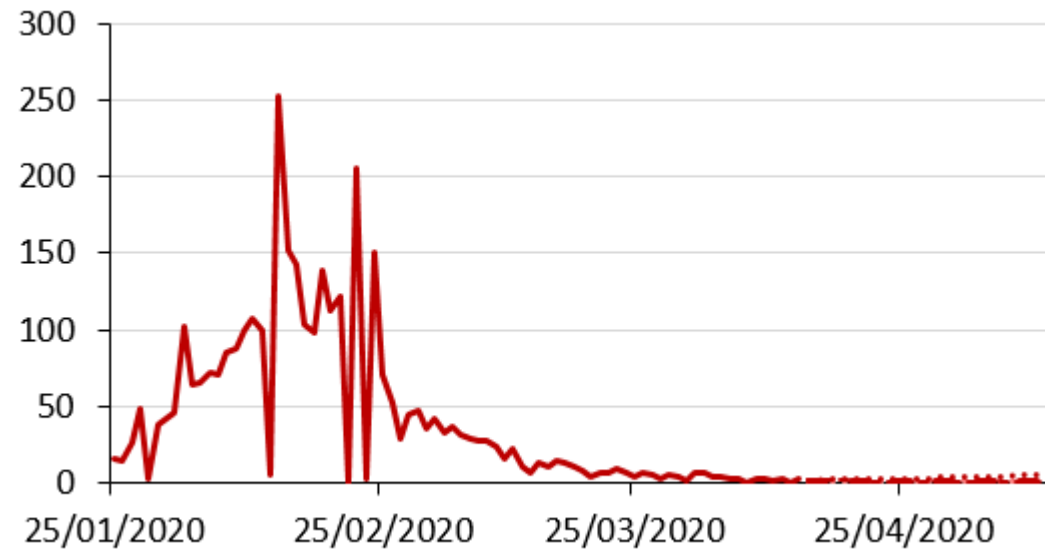
China

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

Cumulated



Daily

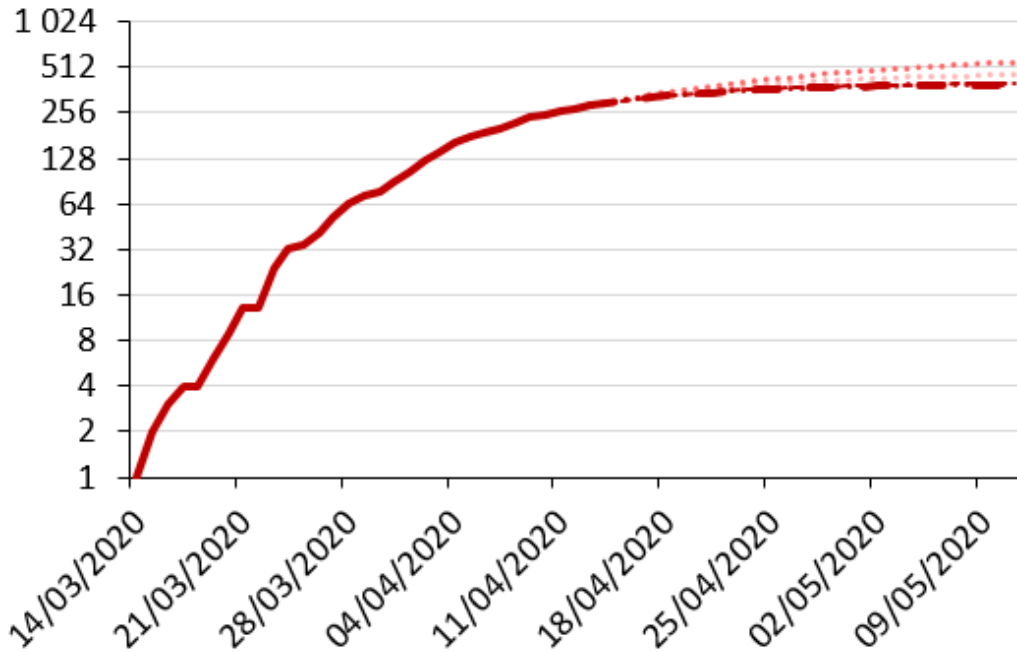


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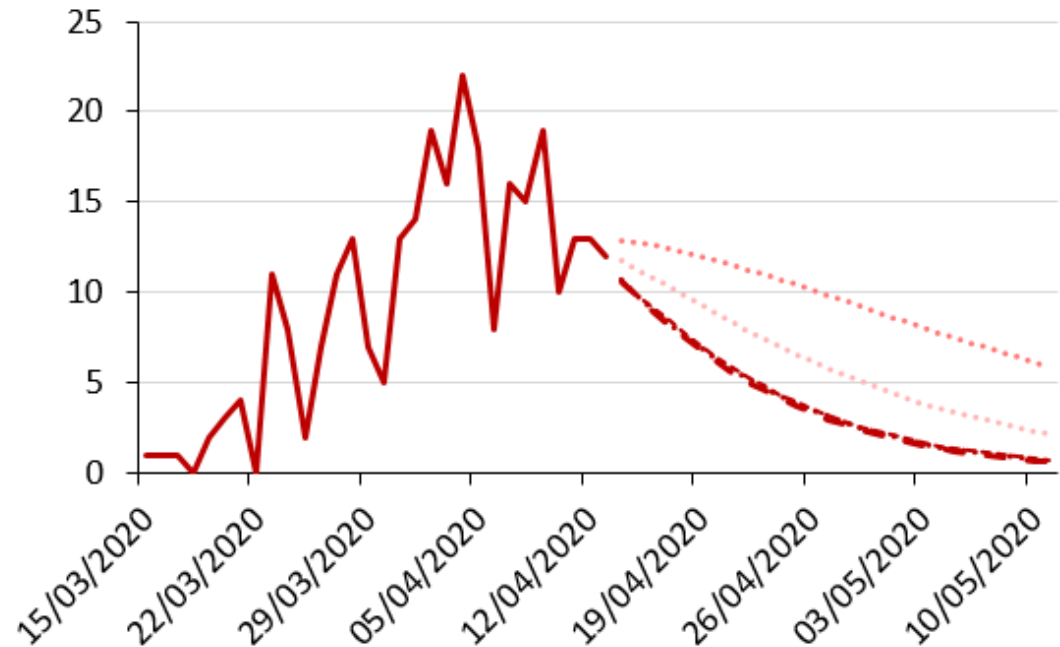
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Cumulated



Daily

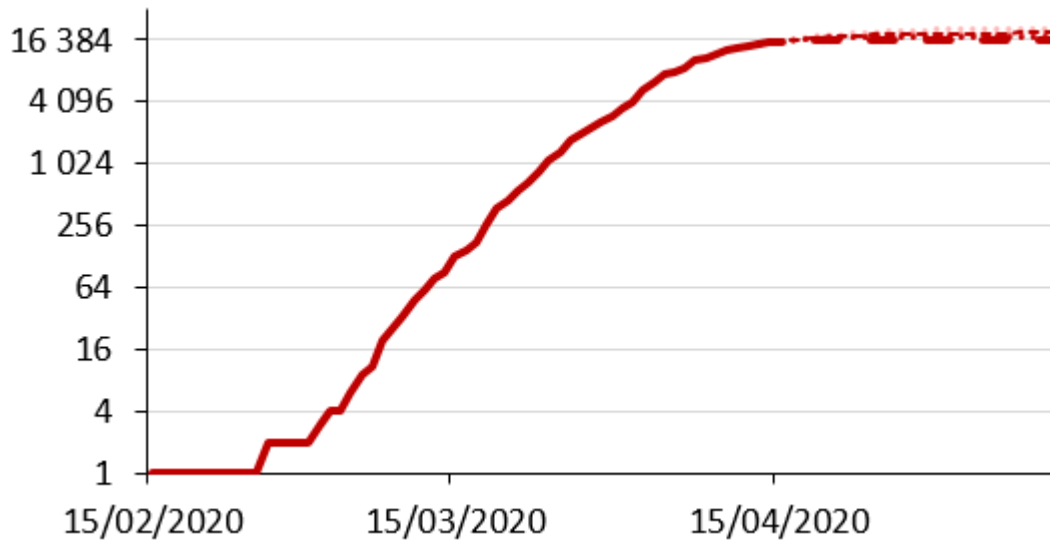


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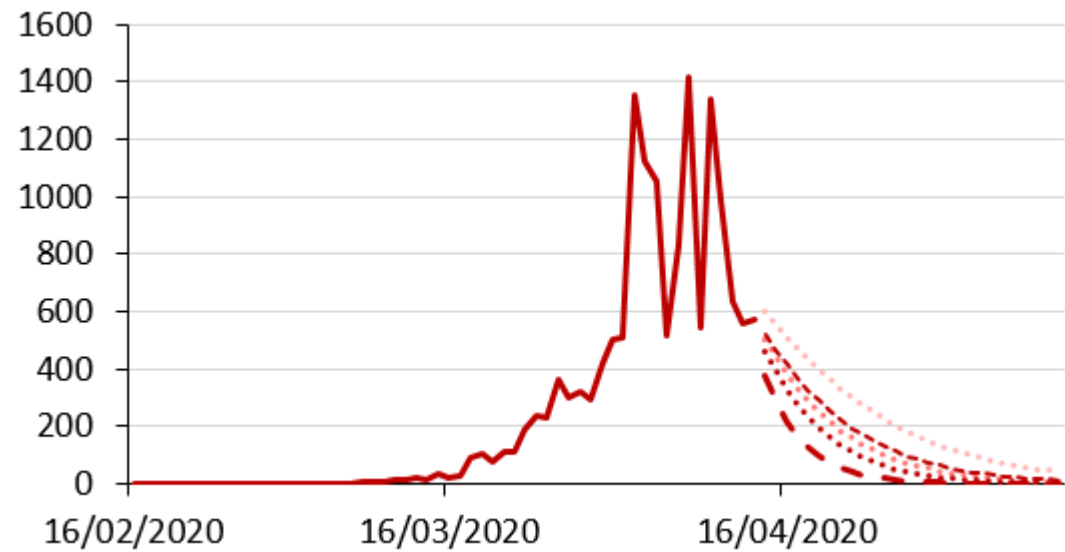
France

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

Cumulated



Daily

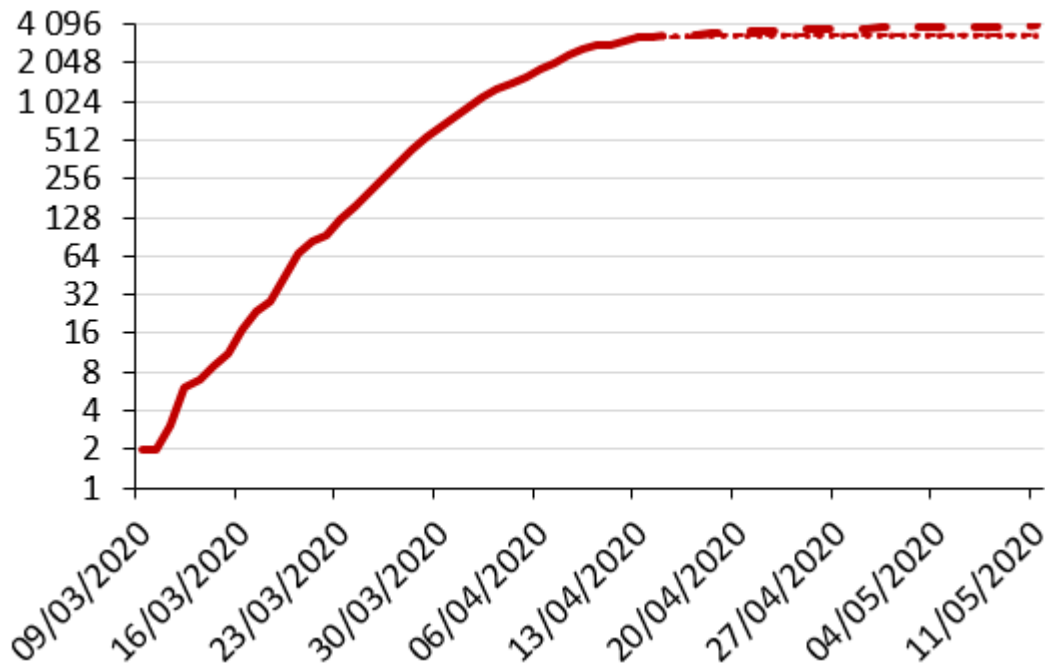


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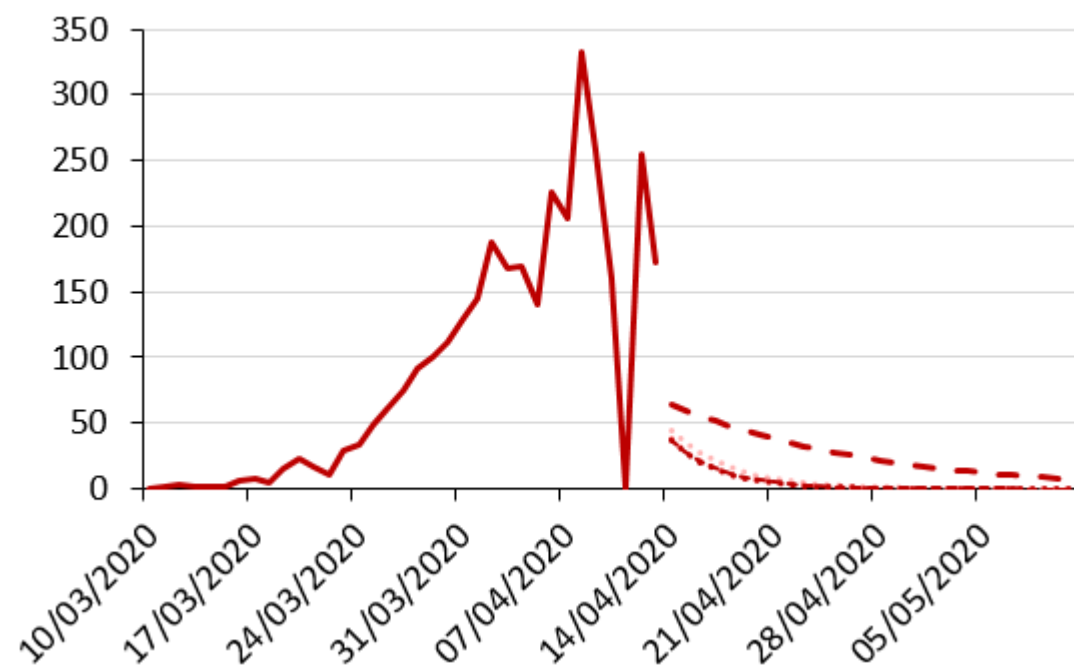
Germany

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Cumulated



Daily

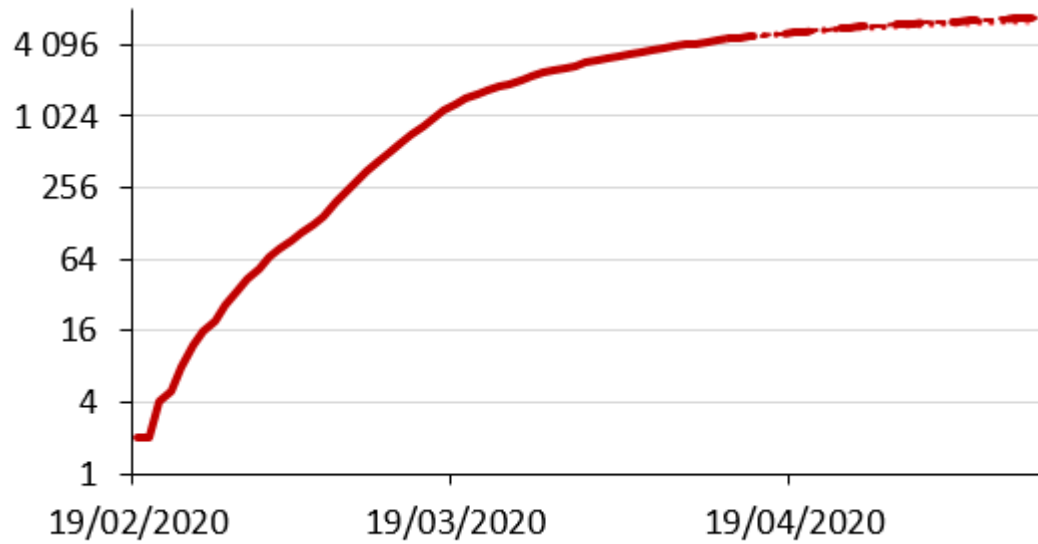


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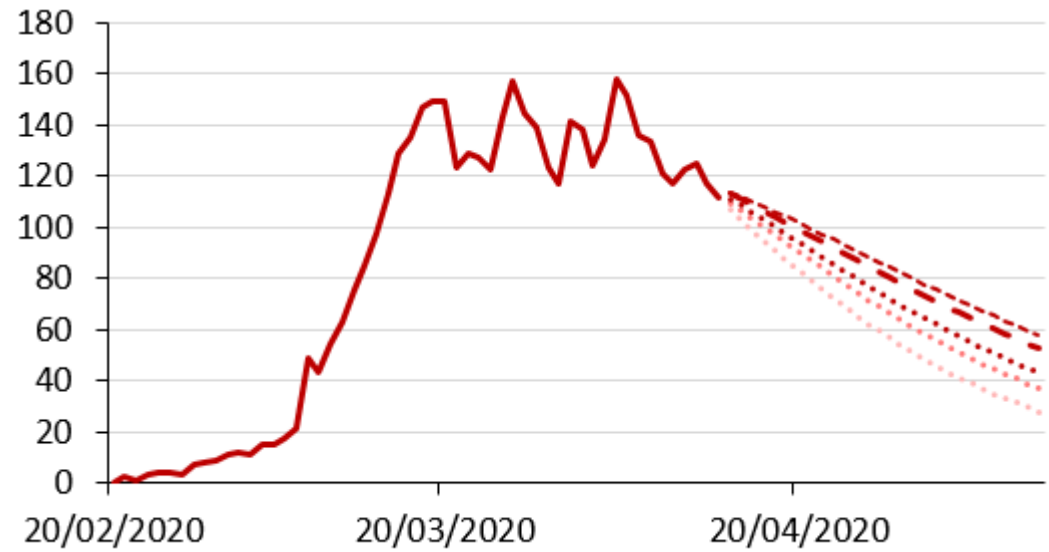
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Cumulated



Daily

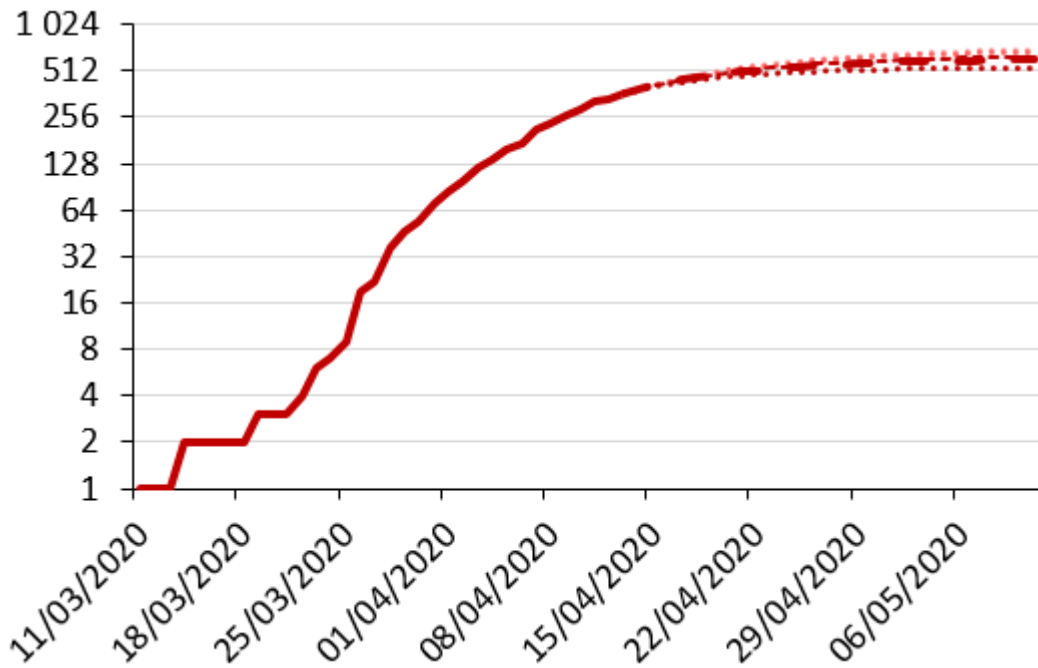


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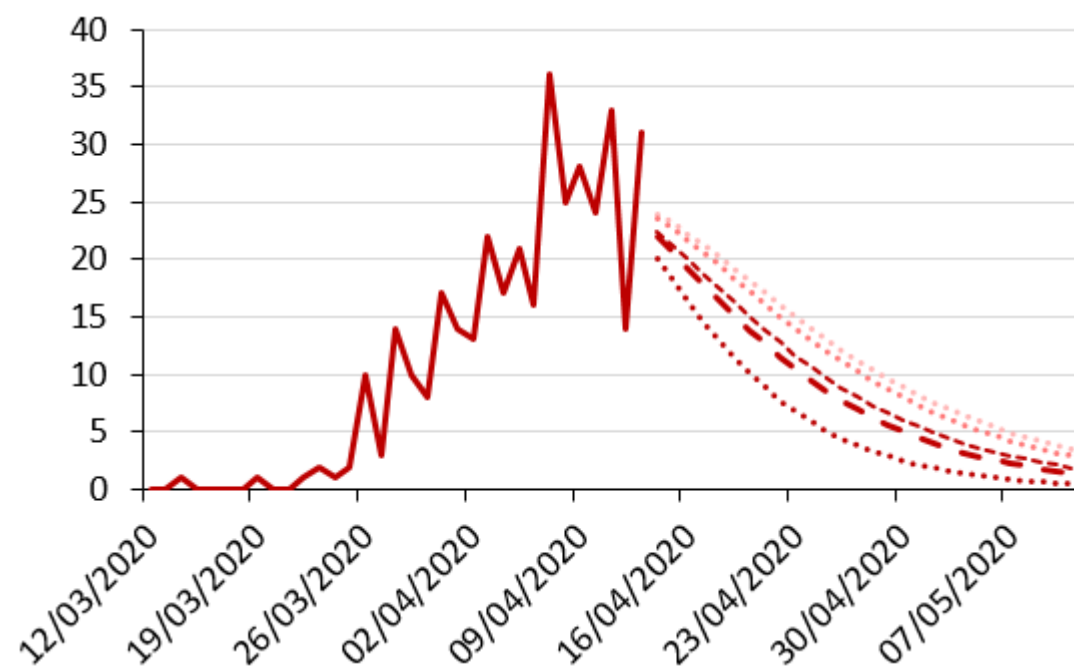
Ireland

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Cumulated



Daily

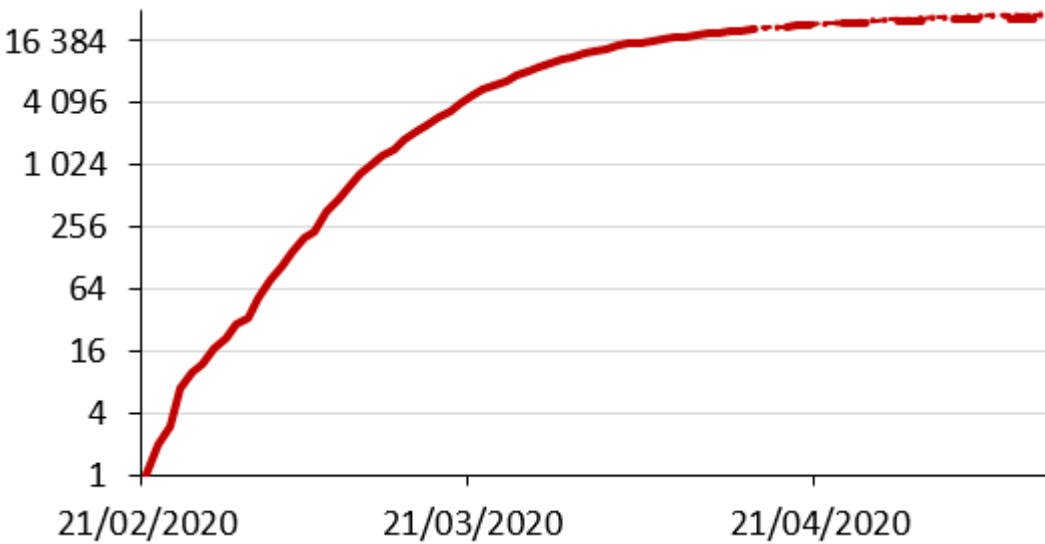


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Italy

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Cumulated



Daily

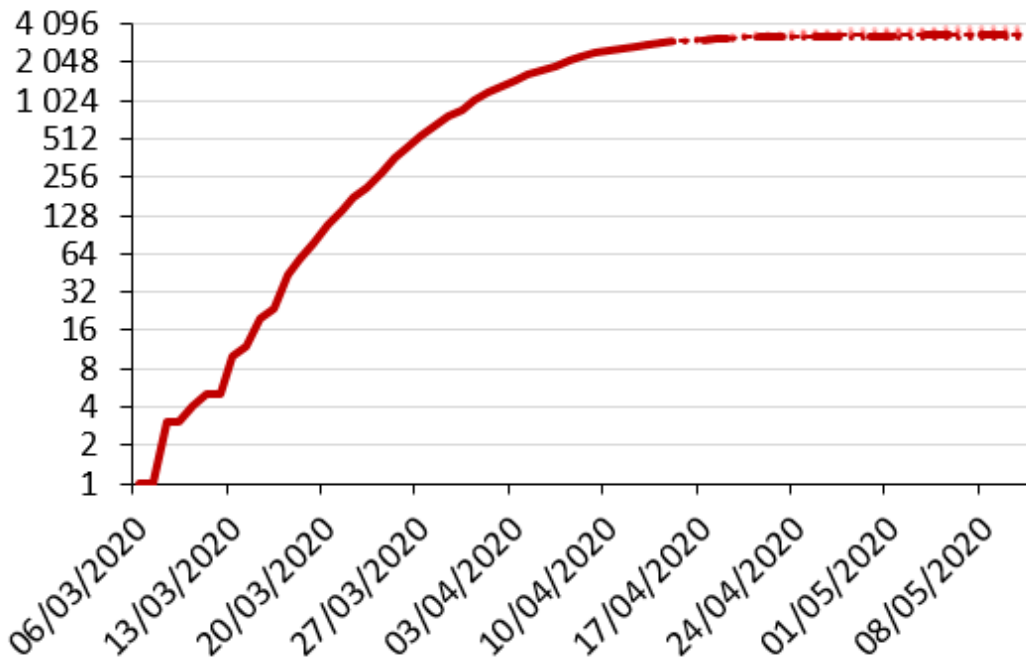


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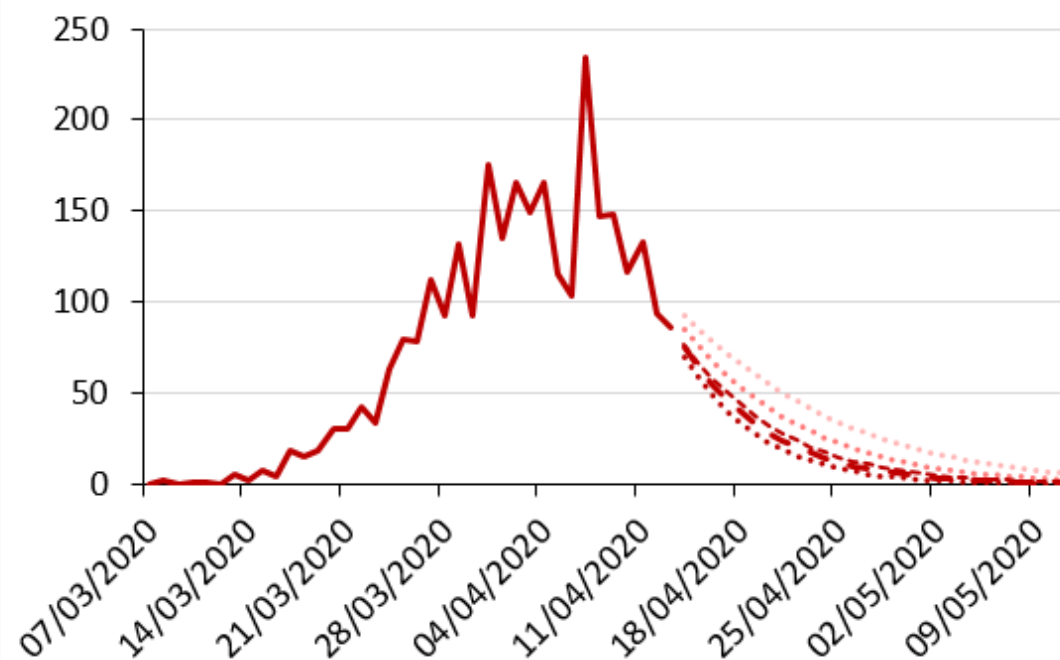
Netherlands

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Cumulated



Daily

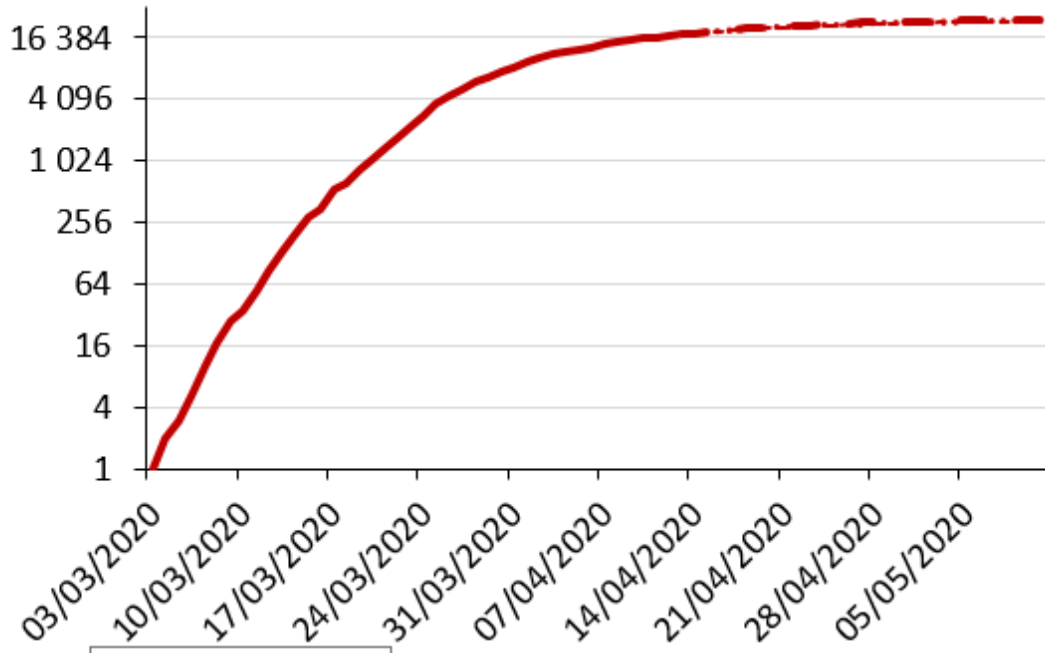


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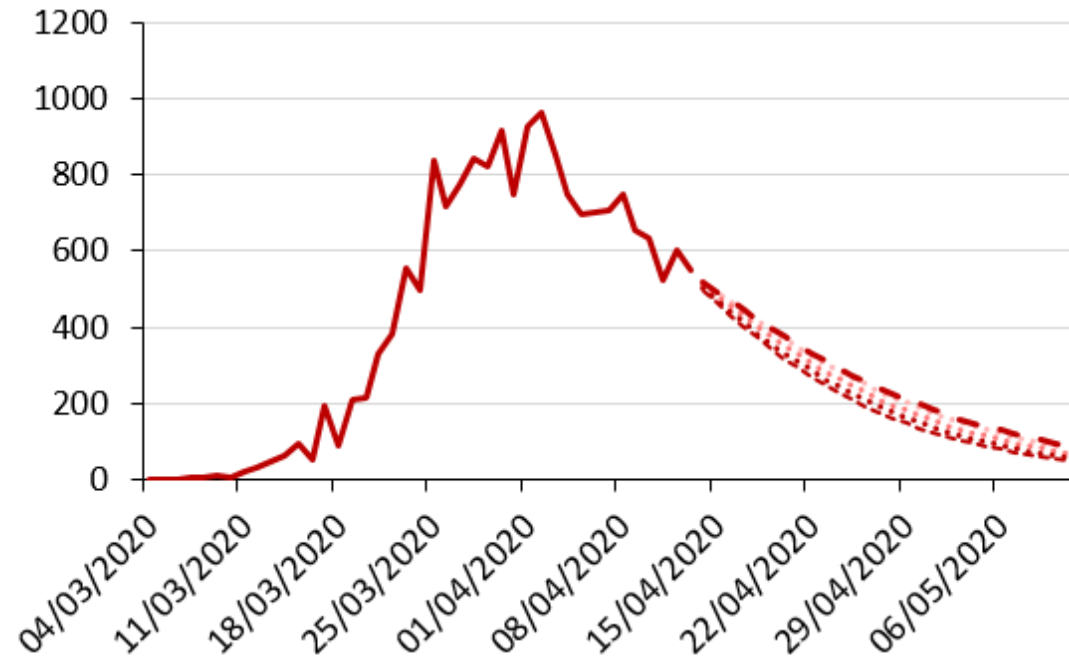
Spain

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Cumulated



Daily

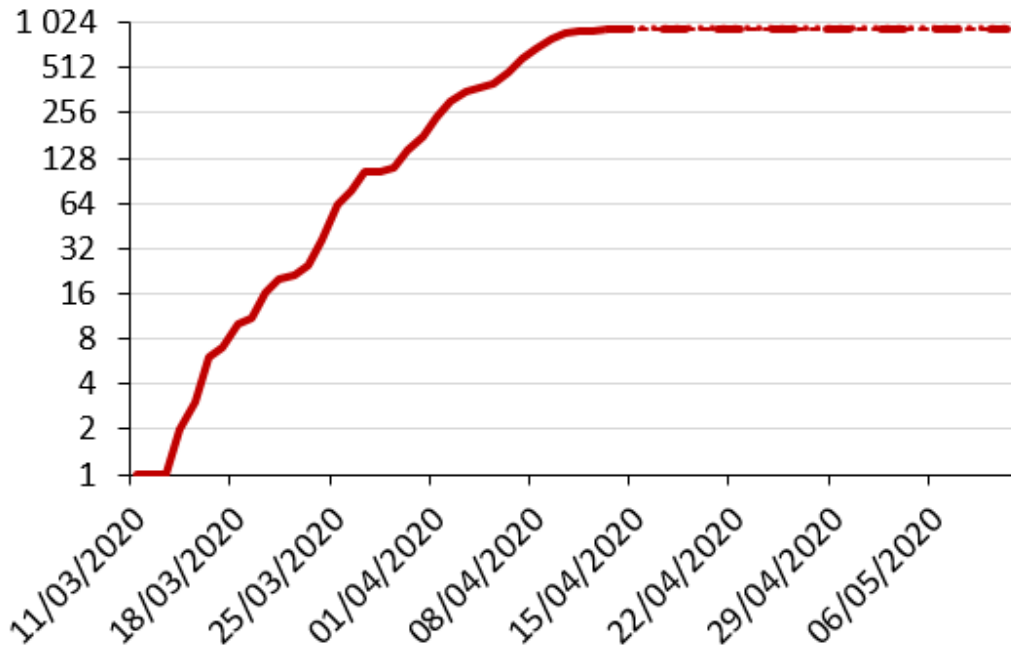


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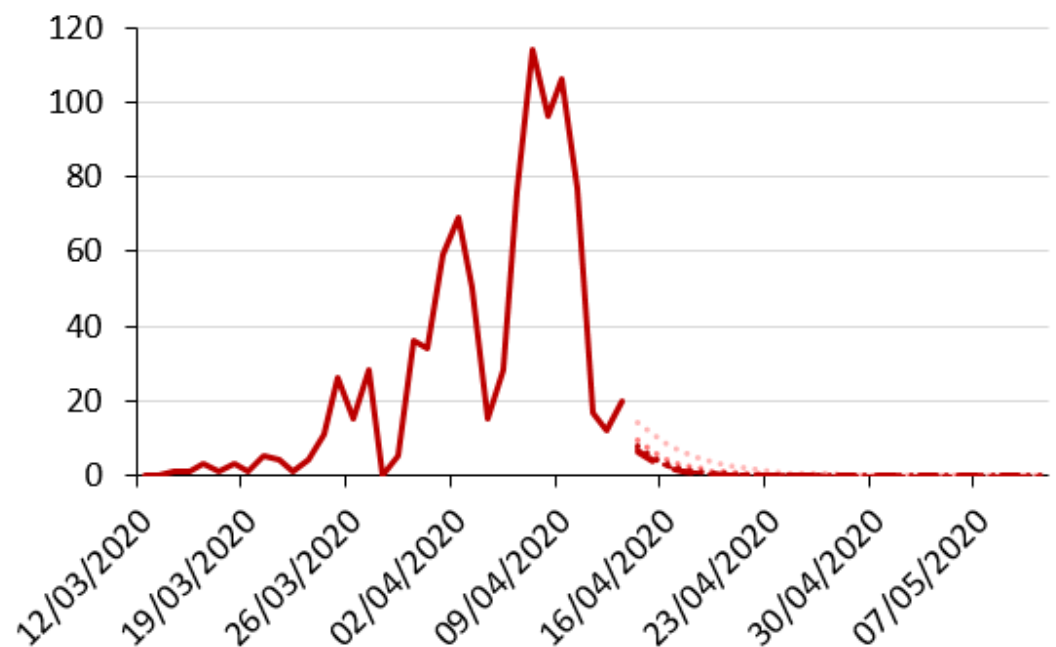
Sweden

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Cumulated



Daily

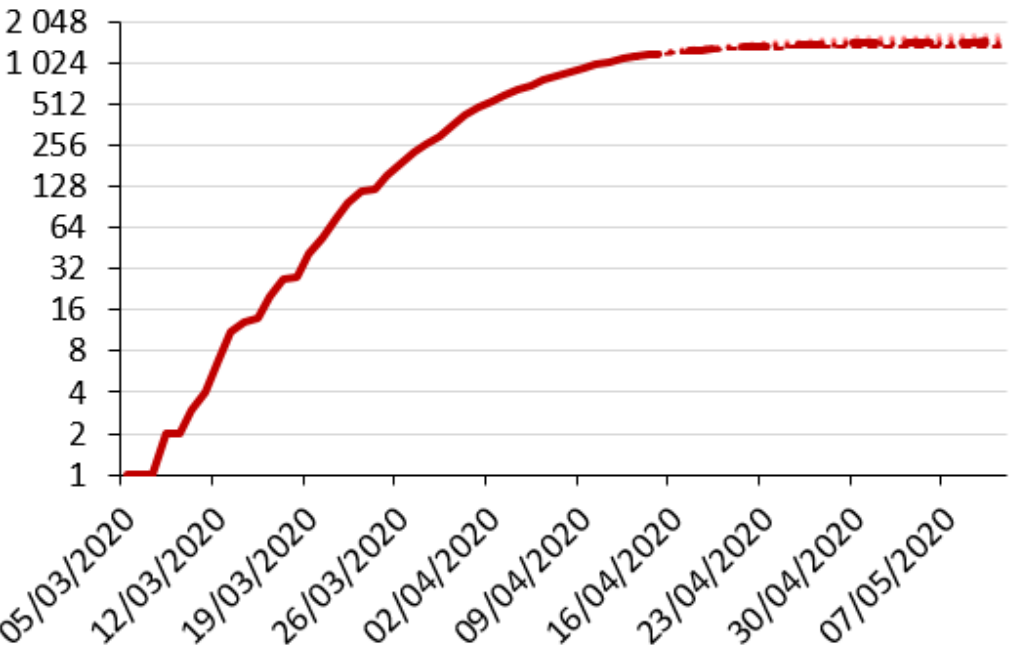


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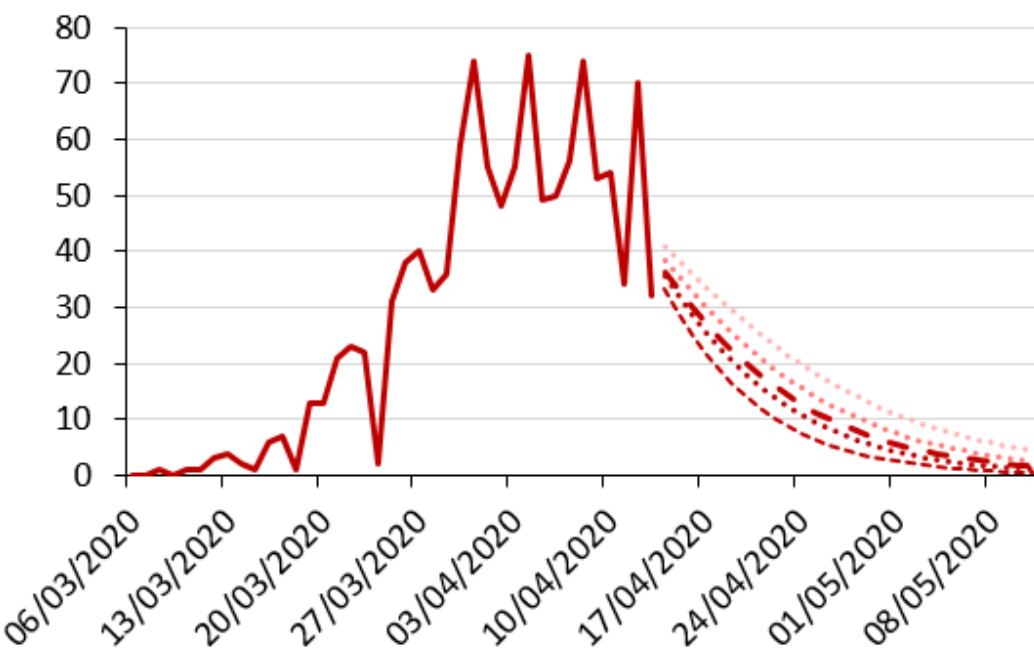
Switzerland

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

Cumulated



Daily

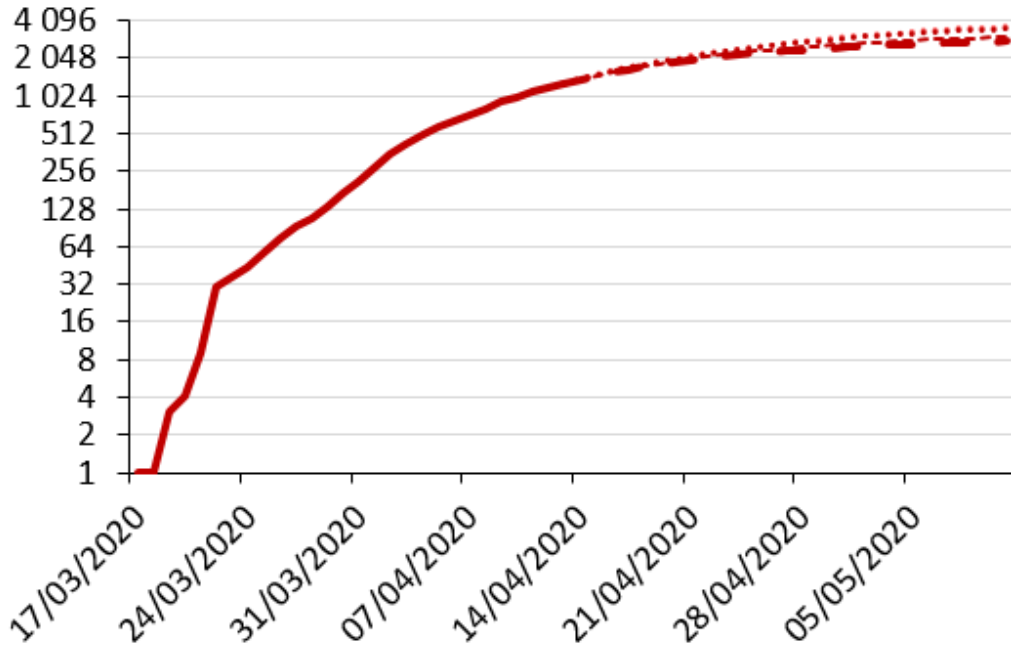


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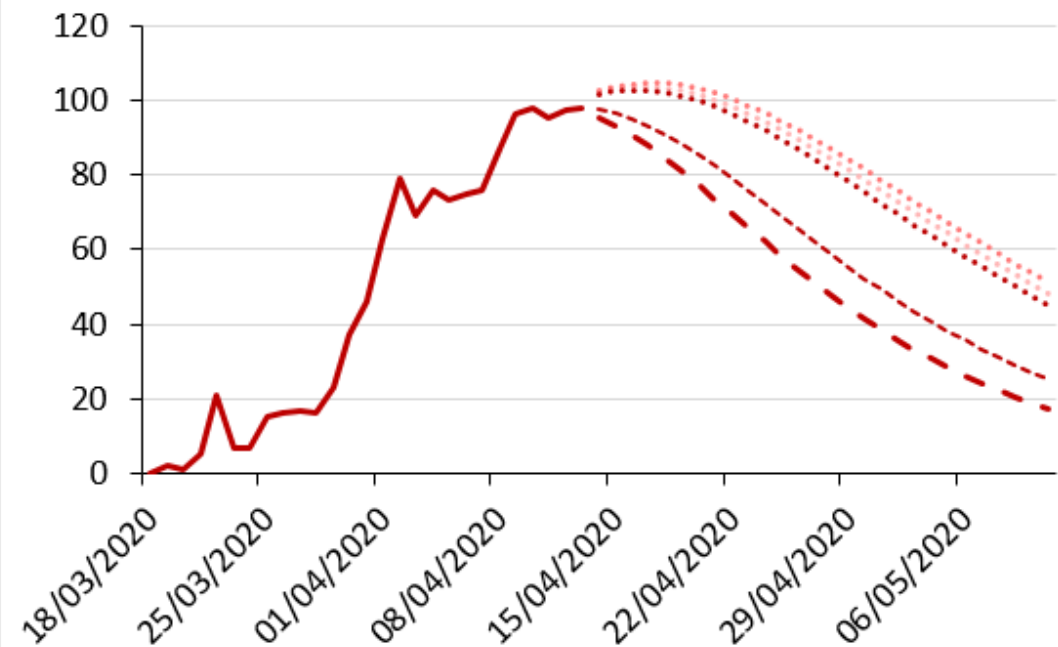
Turkey

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Cumulated



Daily

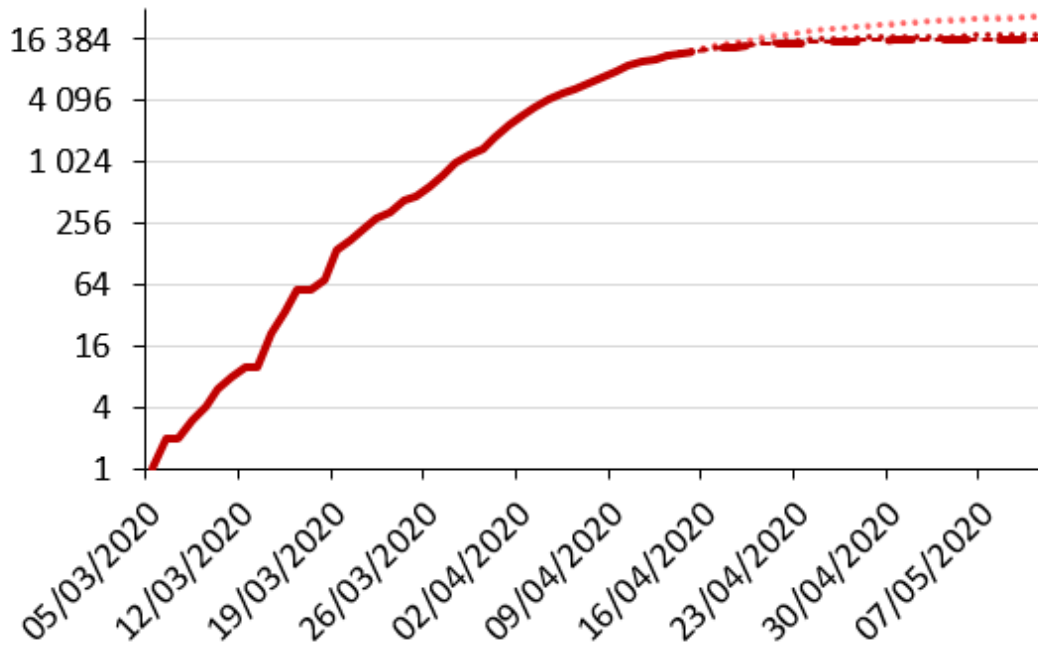


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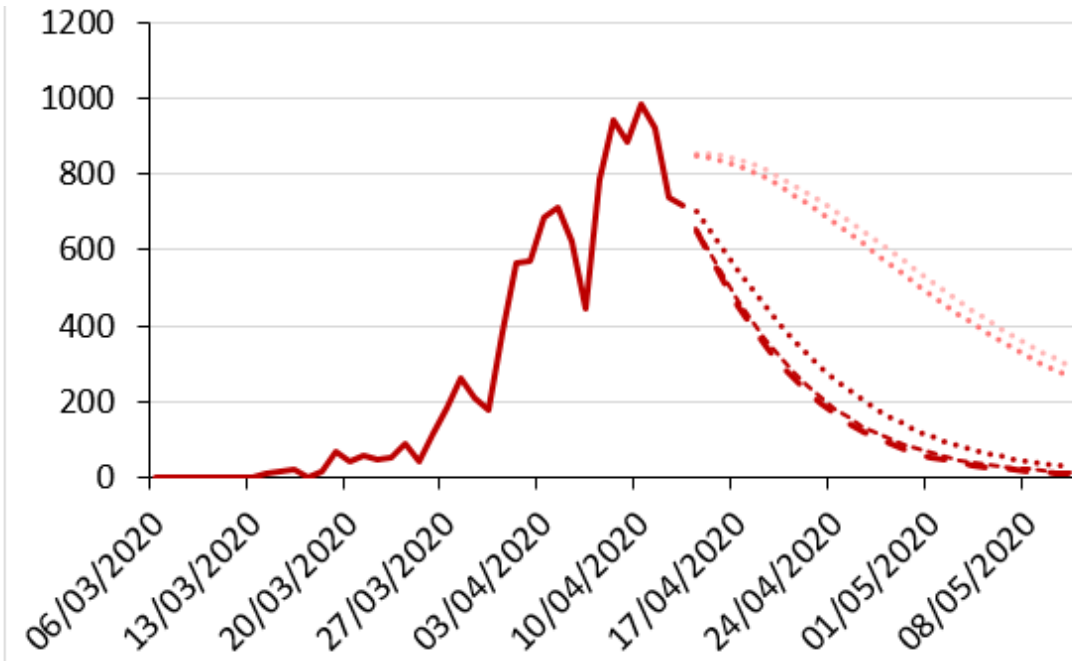
United Kingdom

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

Cumulated



Daily

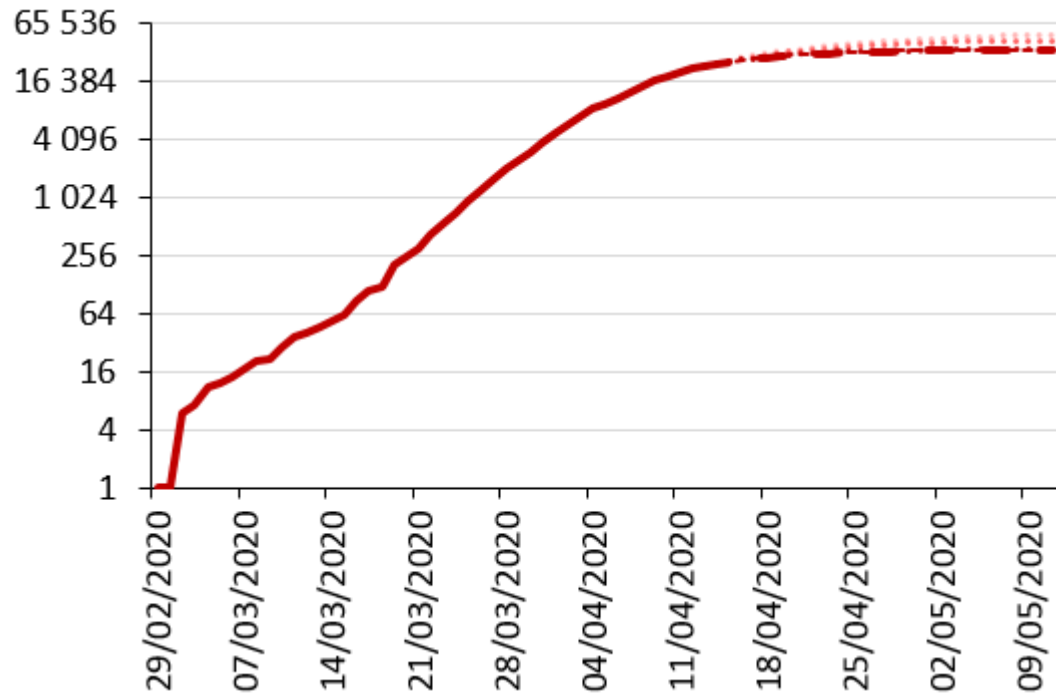


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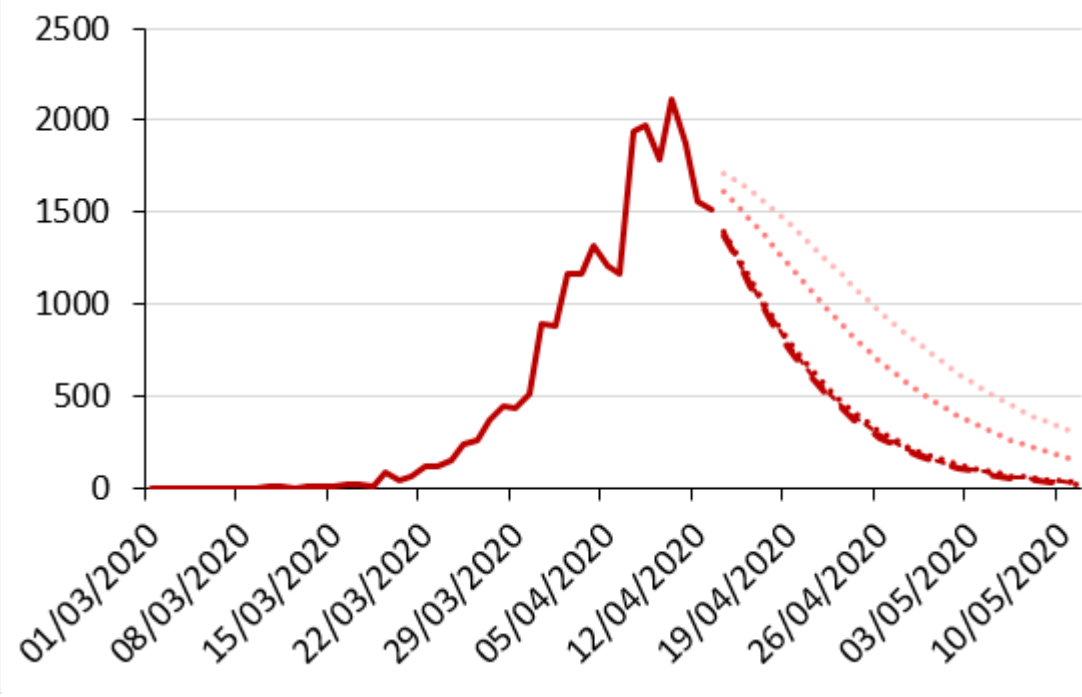
USA

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

Cumulated



Daily



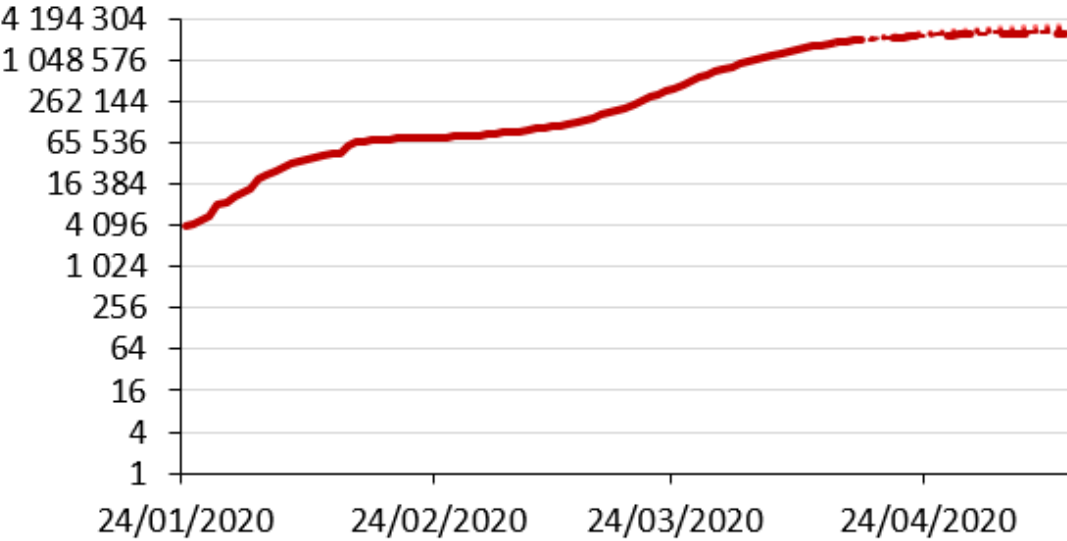
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CUMULATED CASES - PROJECTIONS

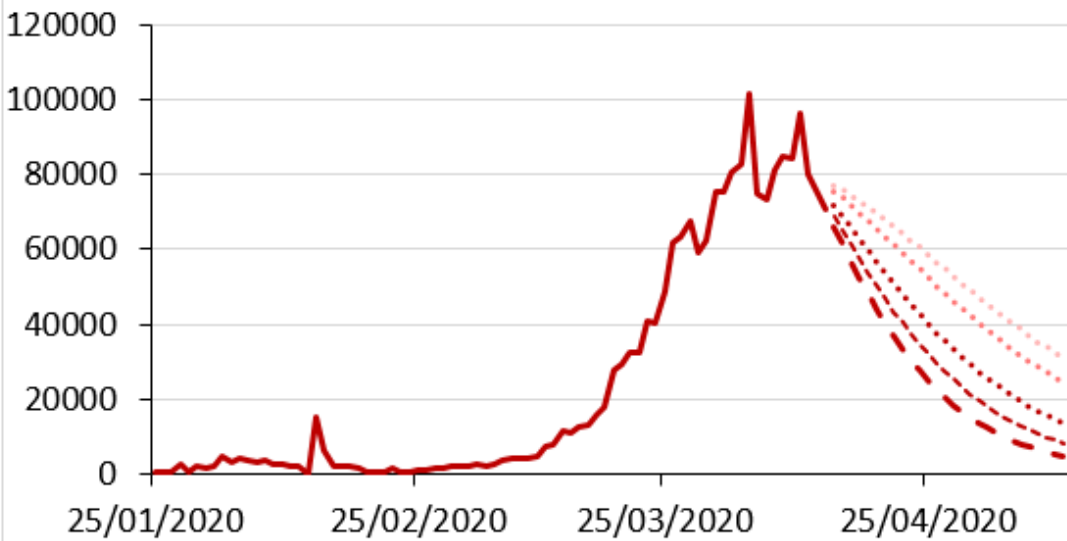
World

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Cumulated



Daily

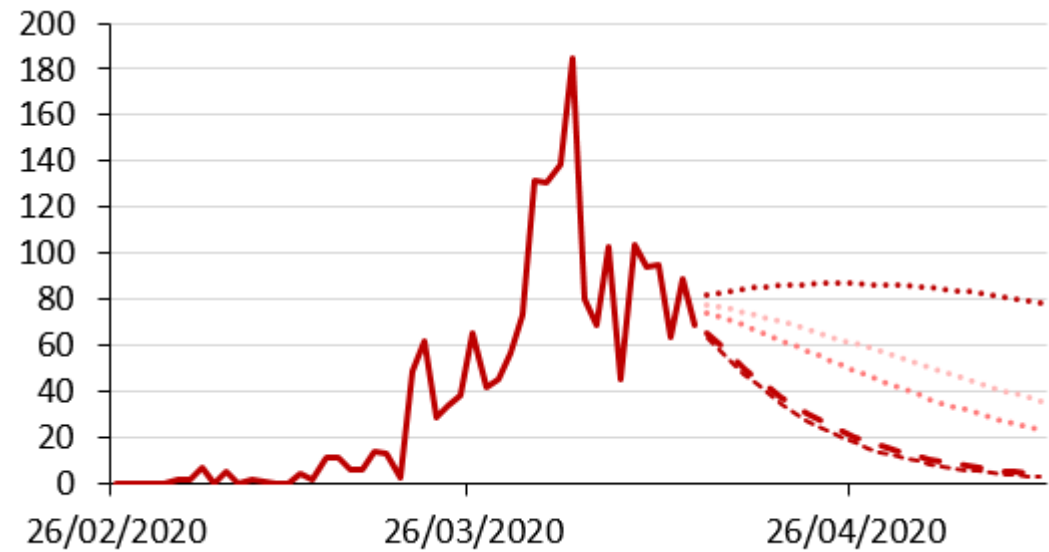
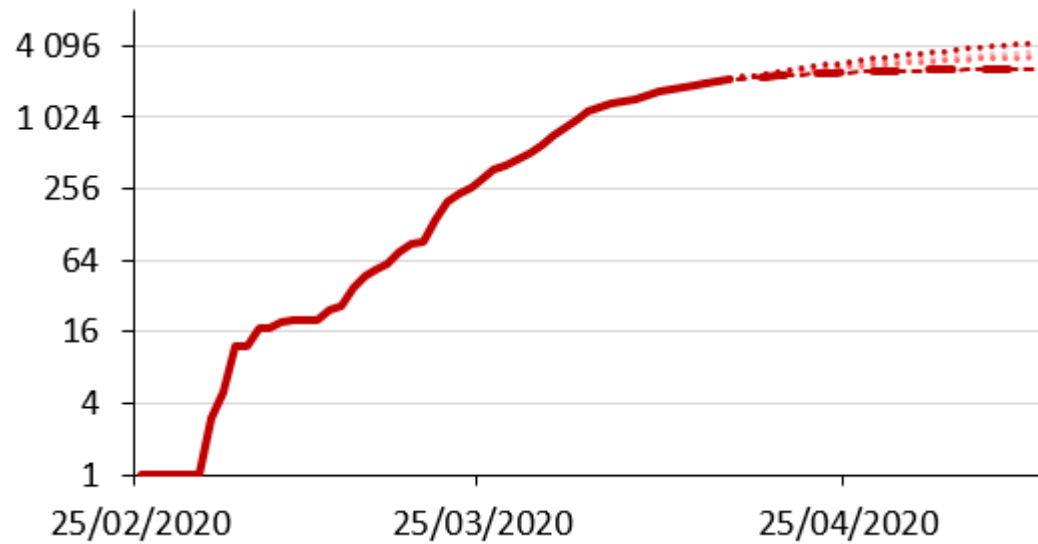


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Algeria

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Cumulated

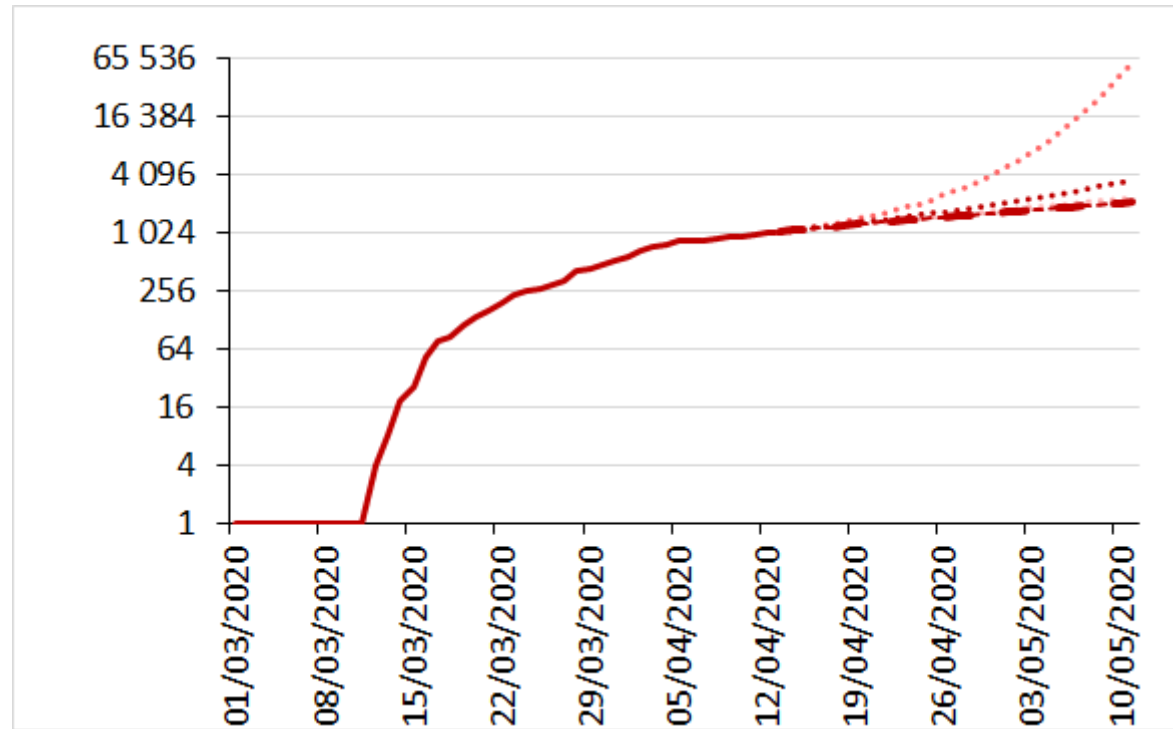


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Armenia

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

Cumulated

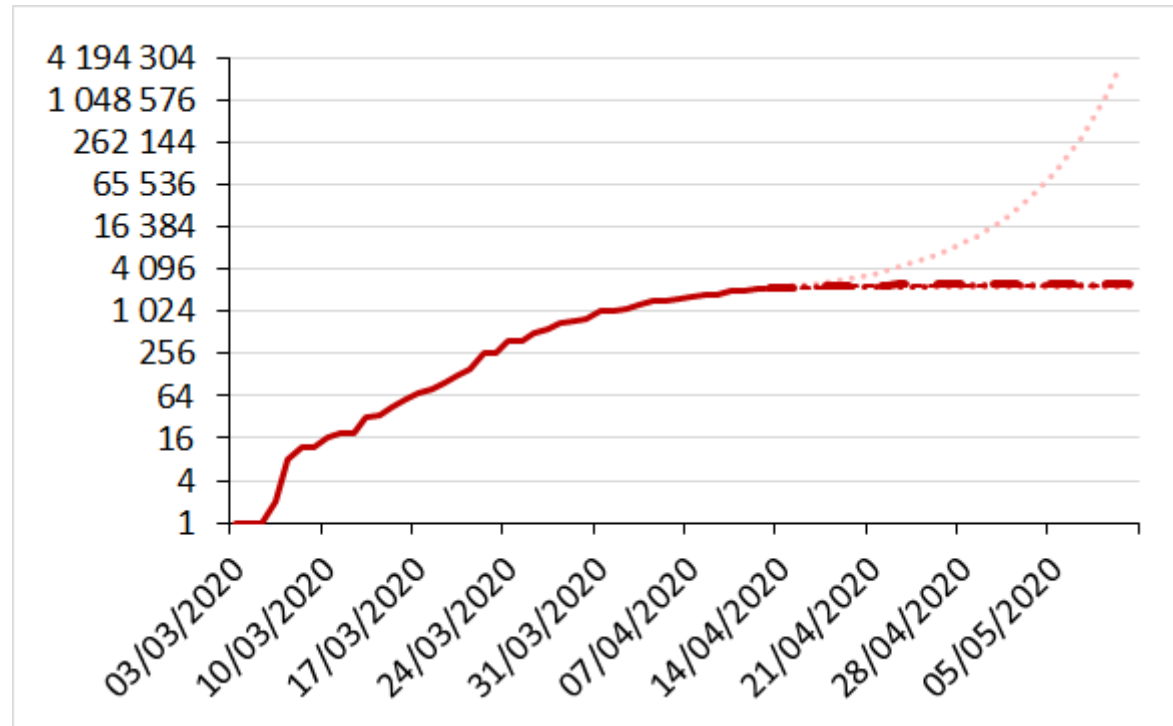


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Argentina

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Cumulated

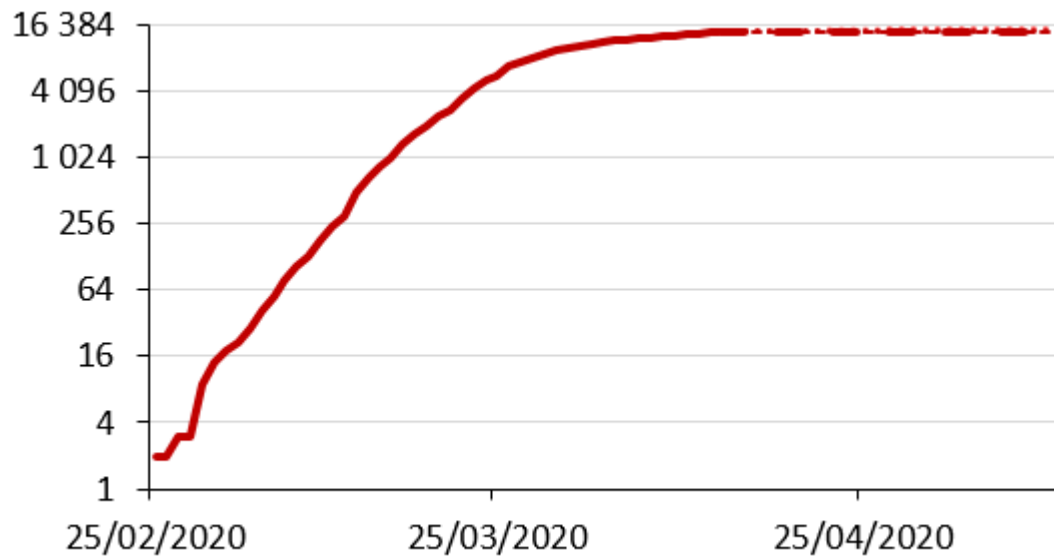


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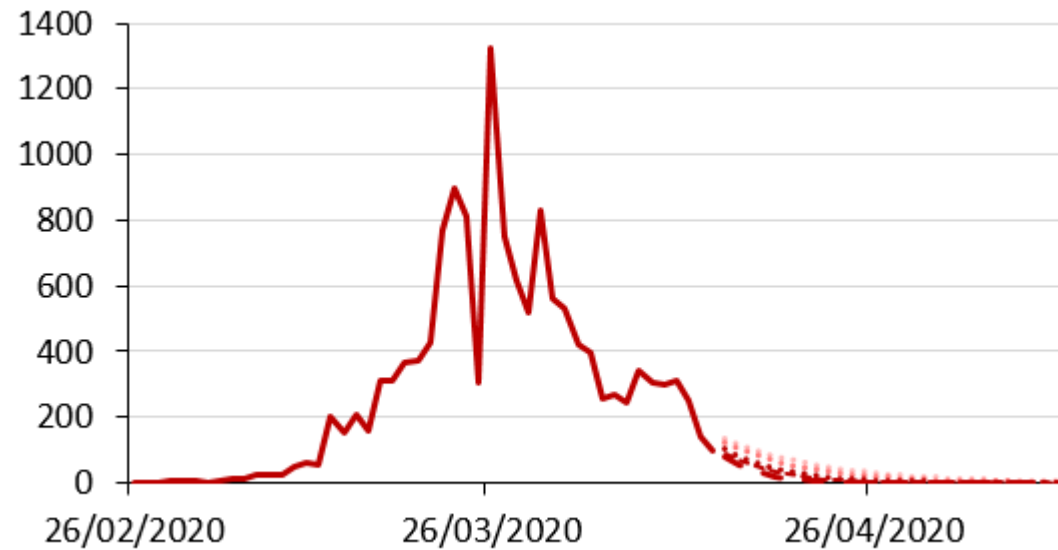
Austria

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Cumulated



Daily

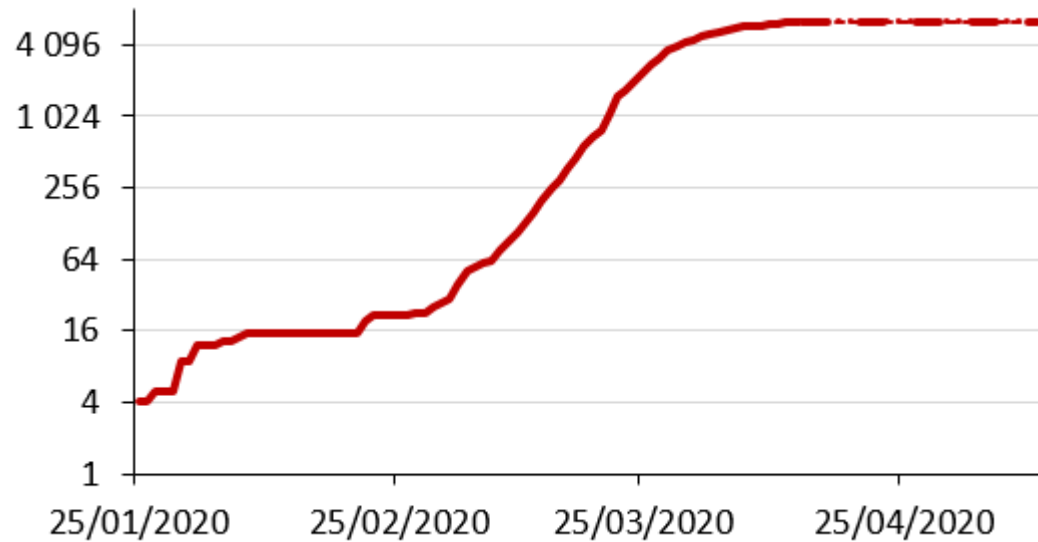


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Australia

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Cumulated



Daily

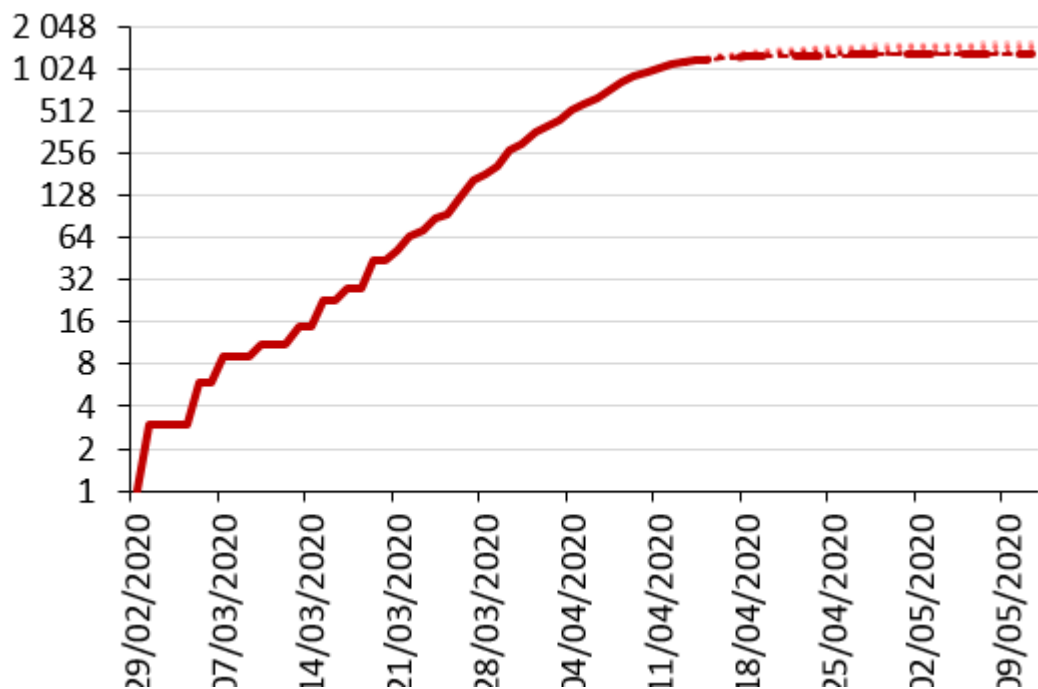


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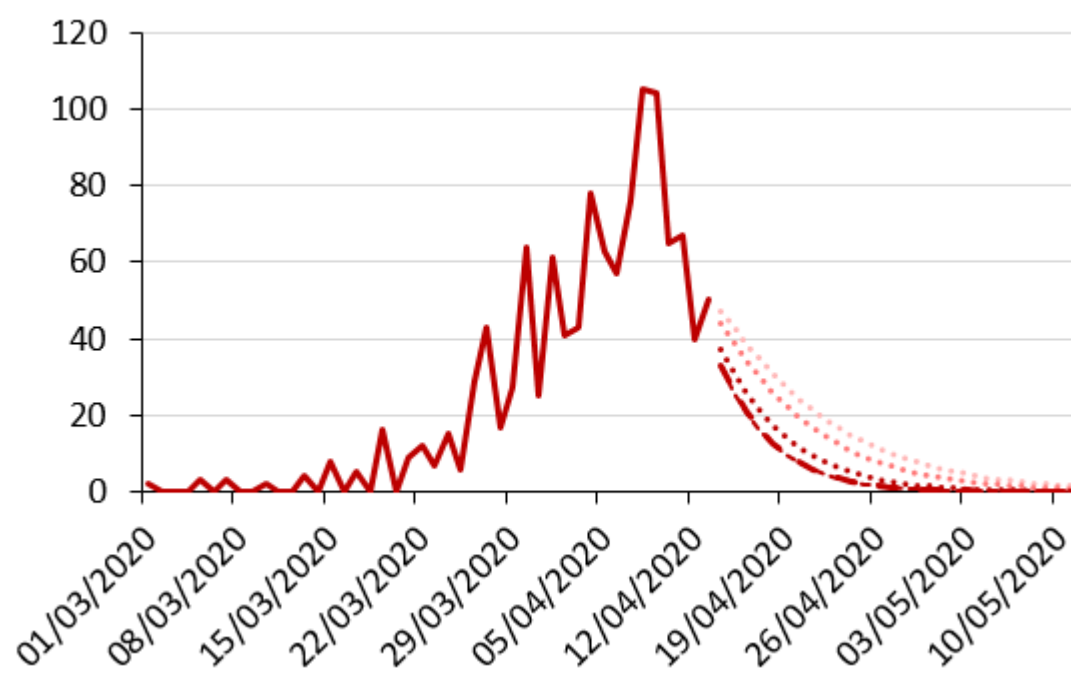
Azerbaijan

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Cumulated



Daily

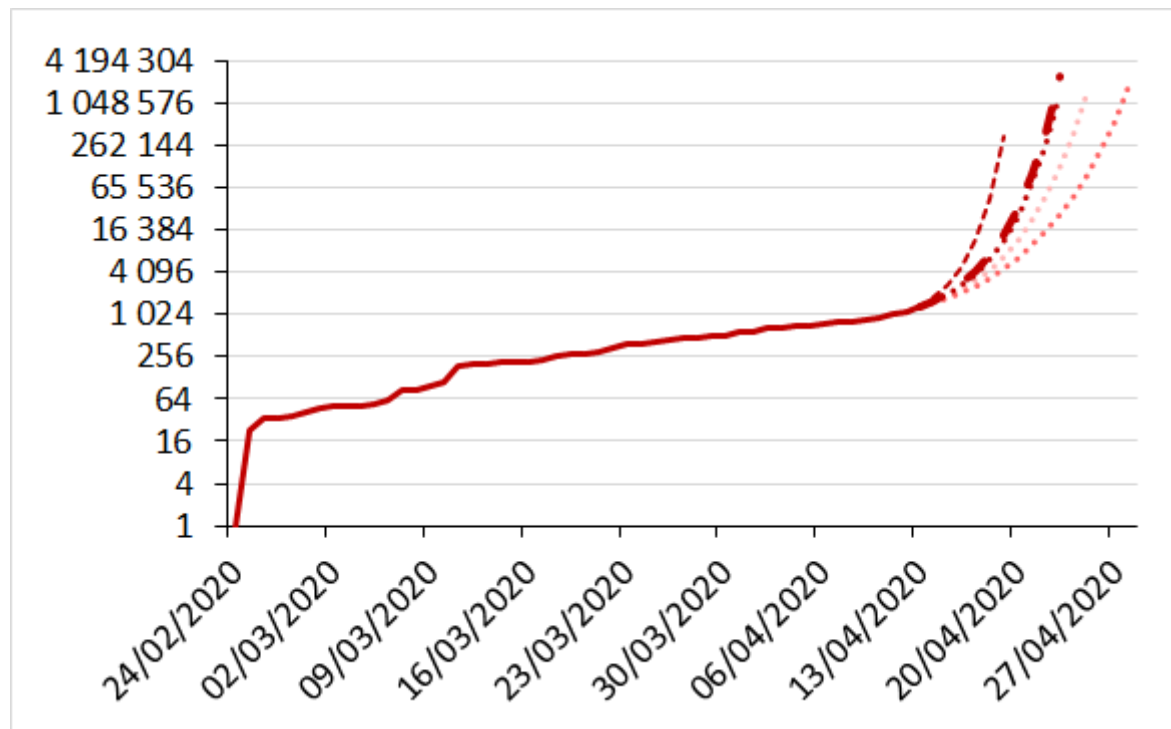


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Bahrain

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Cumulated

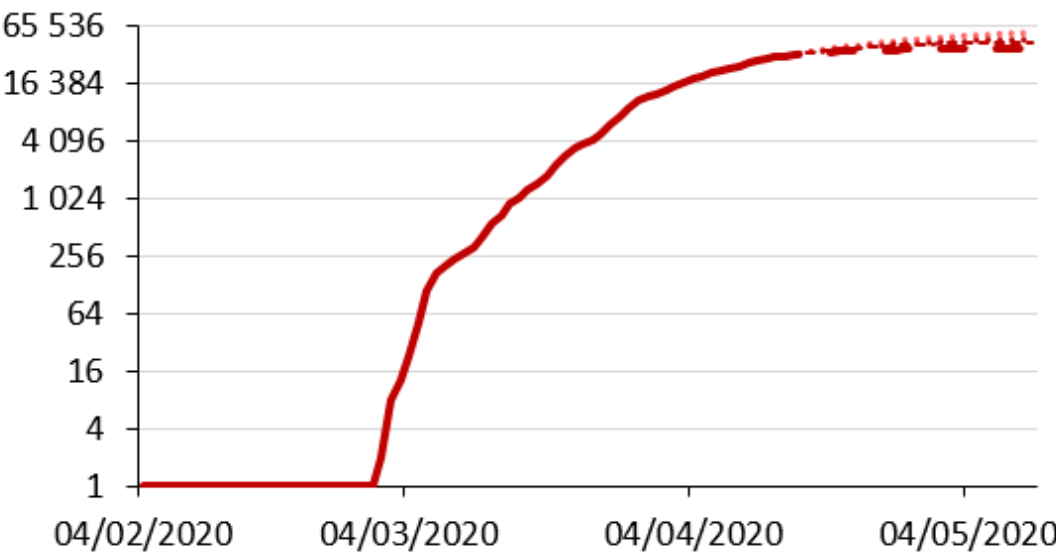


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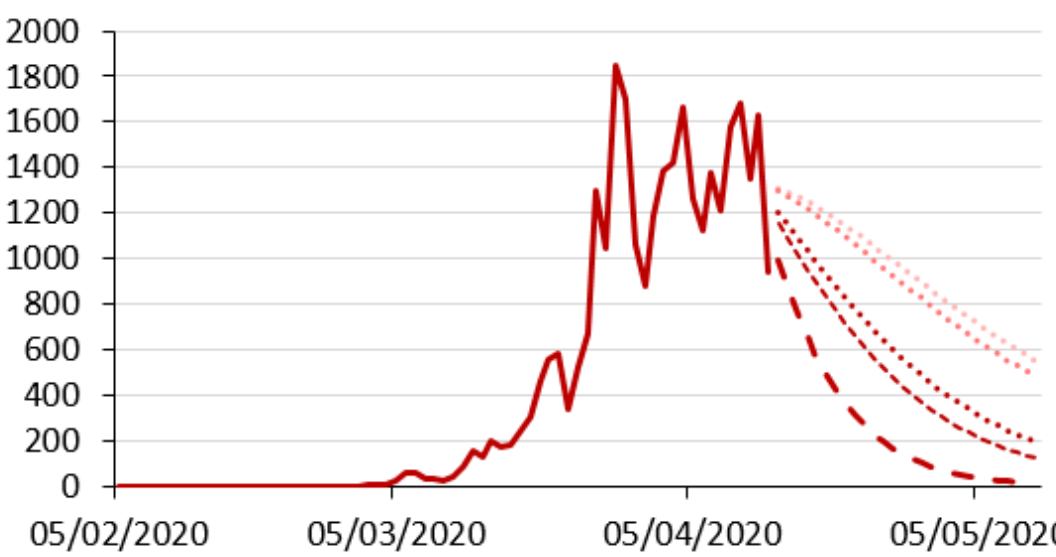
Belgium

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

Cumulated



Daily

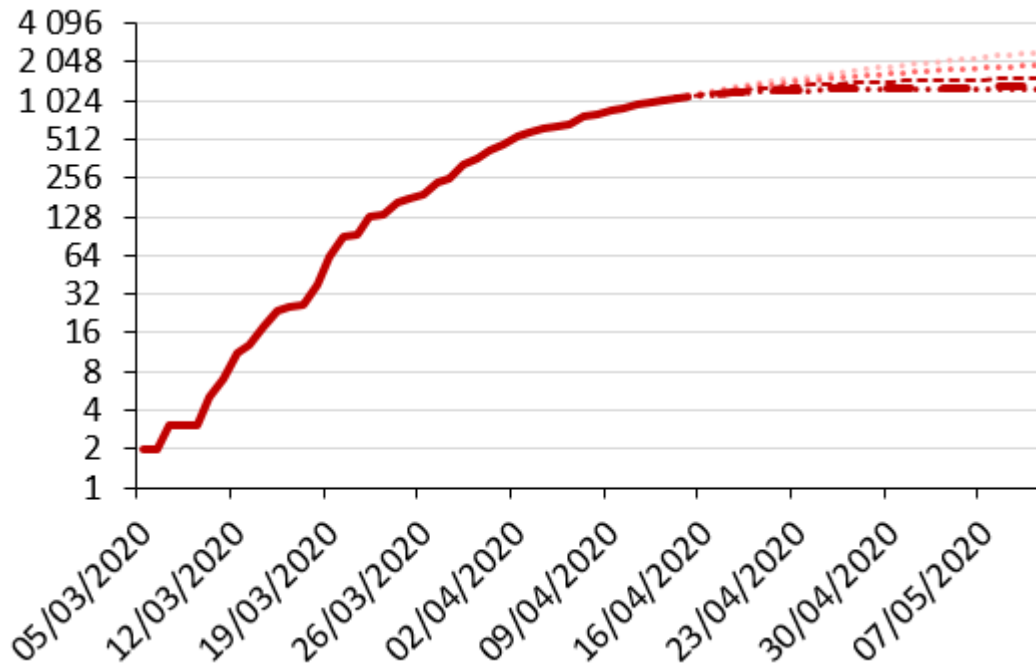


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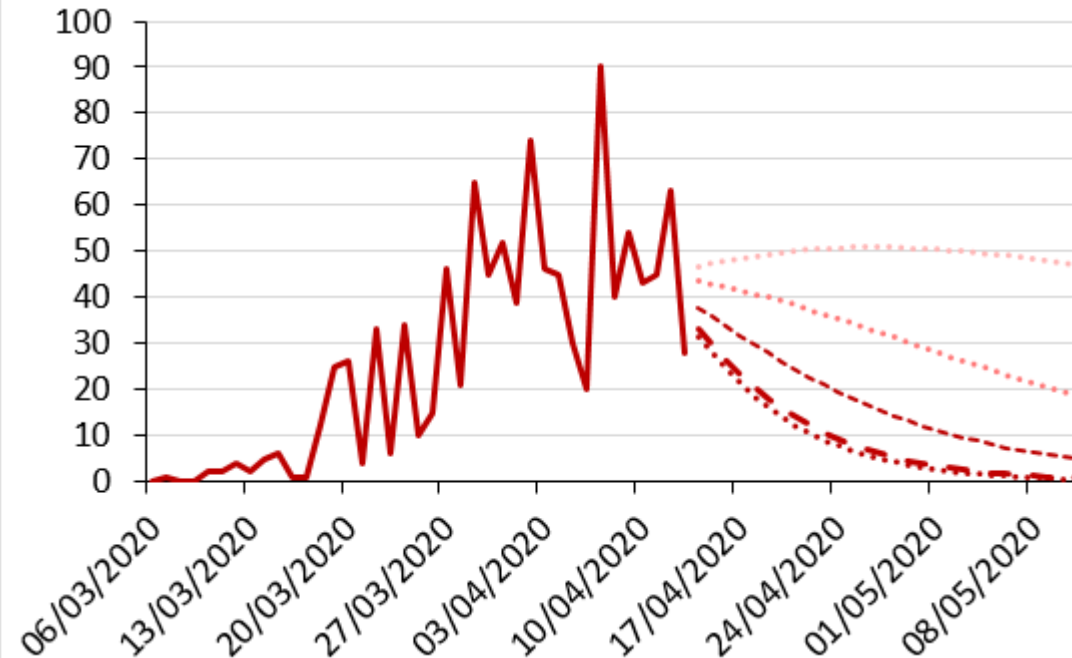
Bosnia and Herzegovina

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Cumulated



Daily

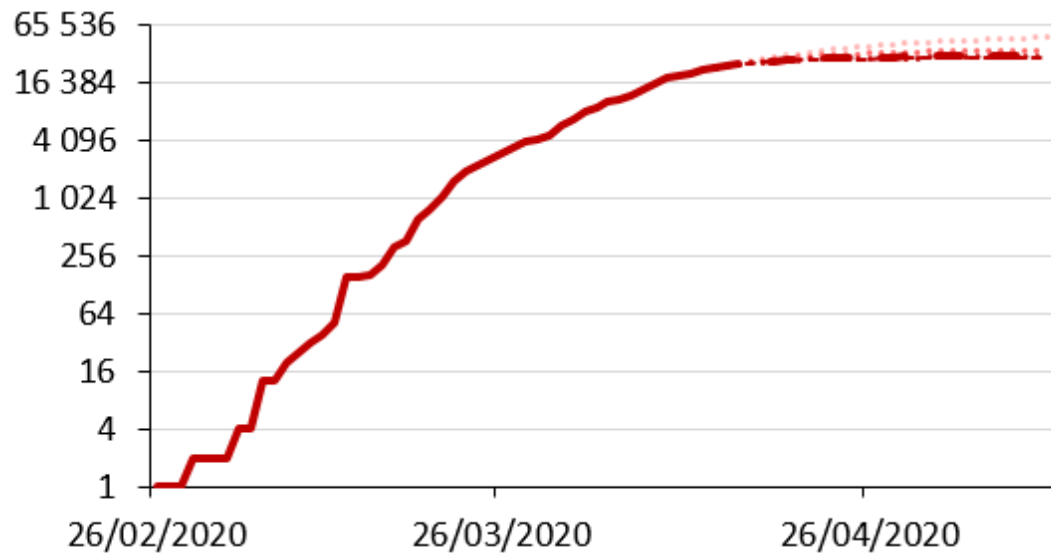


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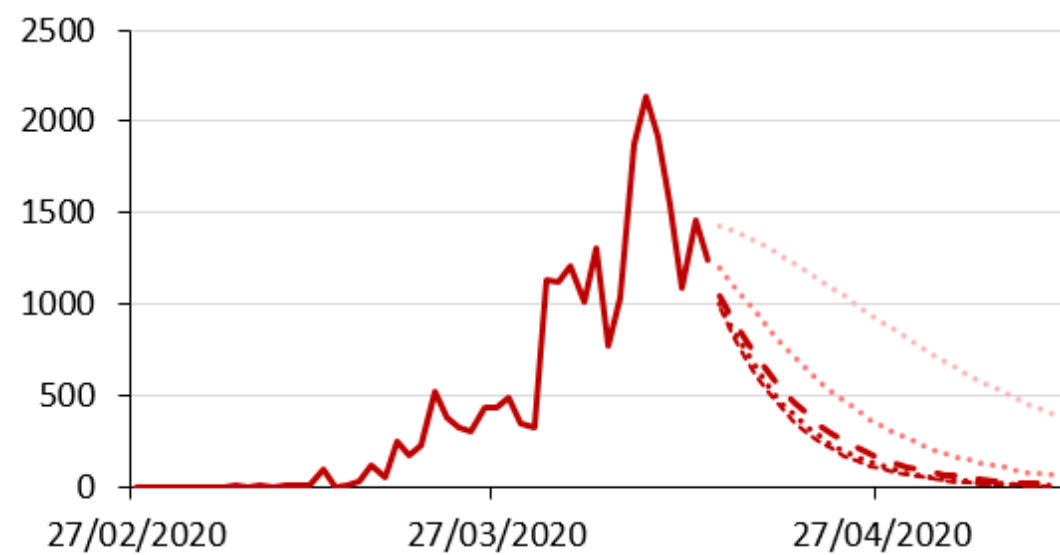
Brazil

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

Cumulated



Daily

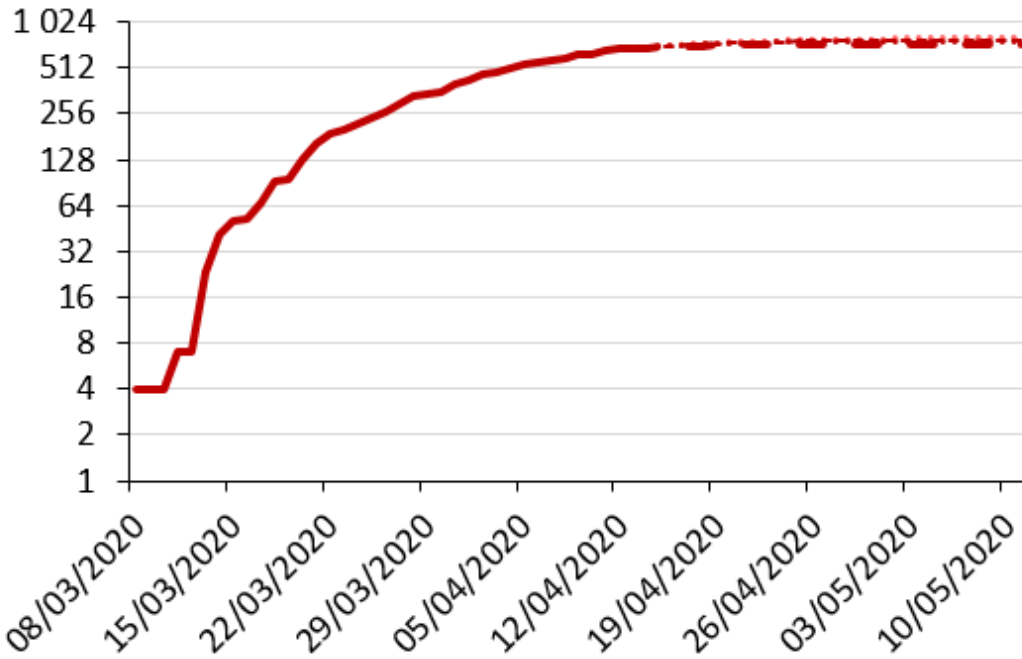


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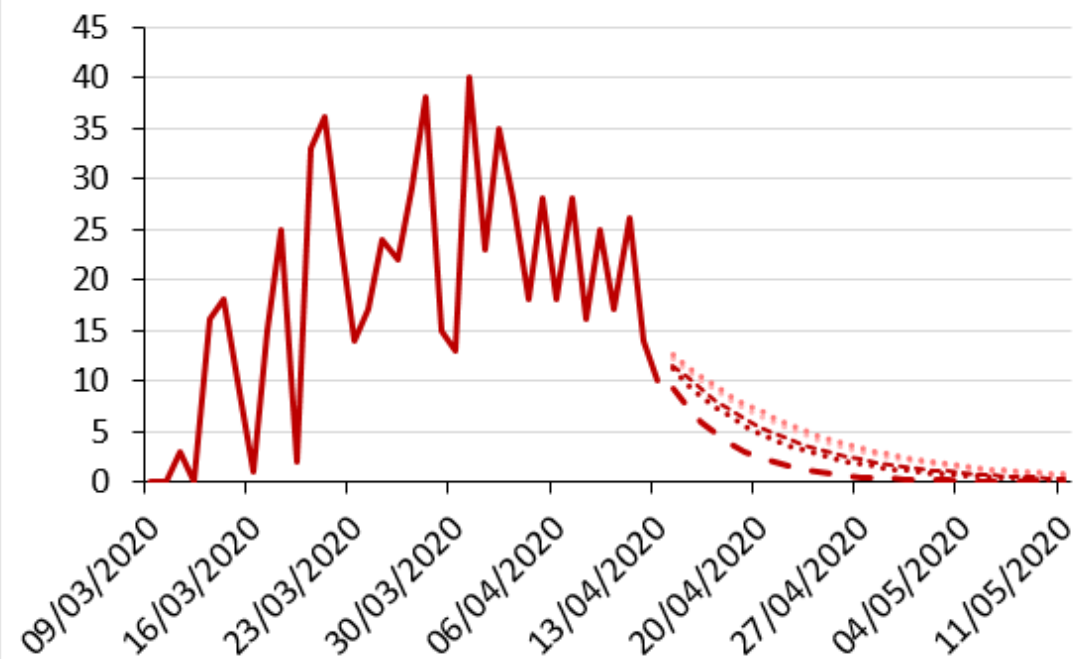
Bulgaria

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Cumulated



Daily

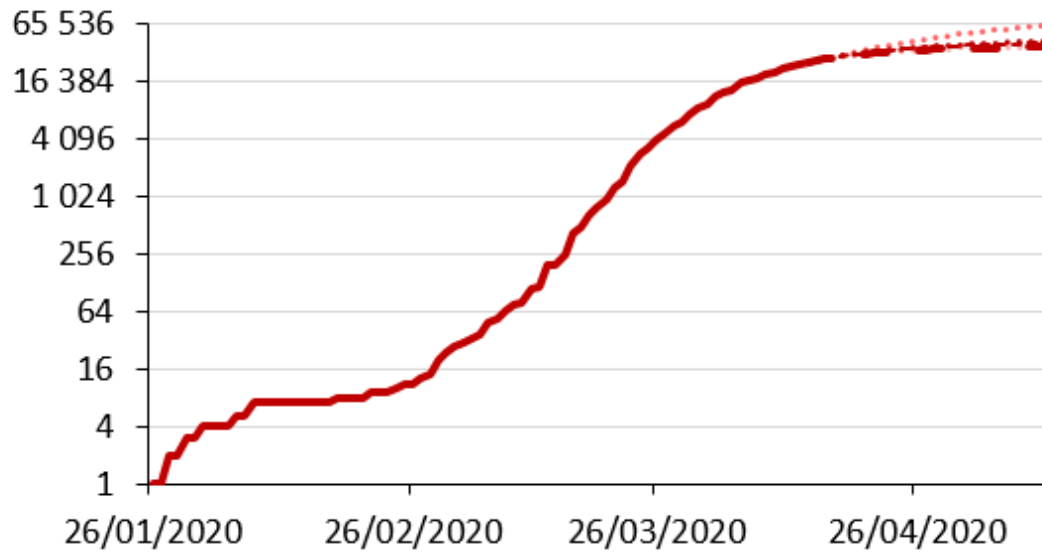


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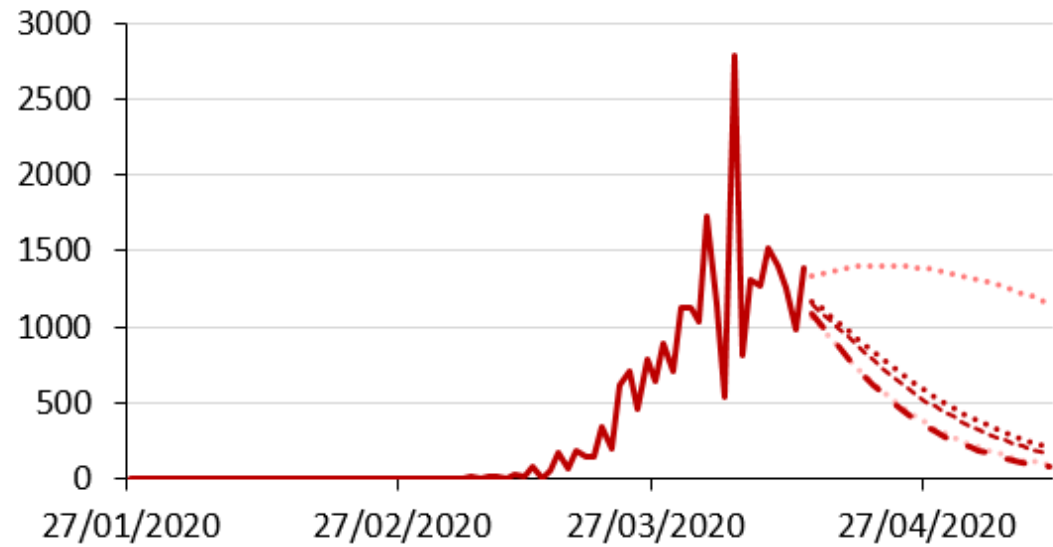
Canada

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

Cumulated



Daily

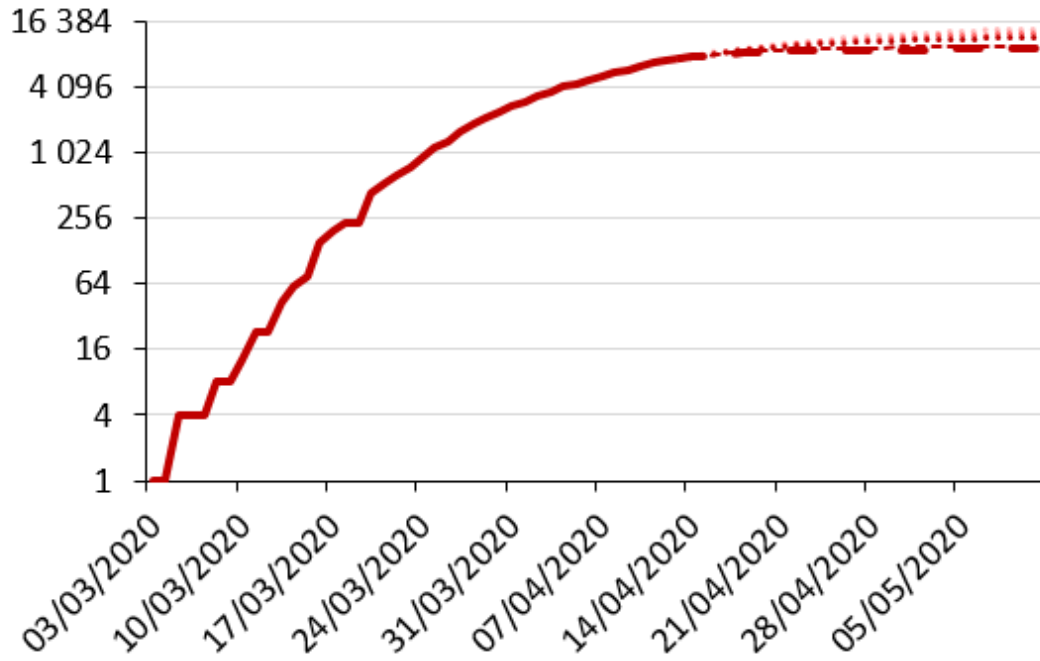


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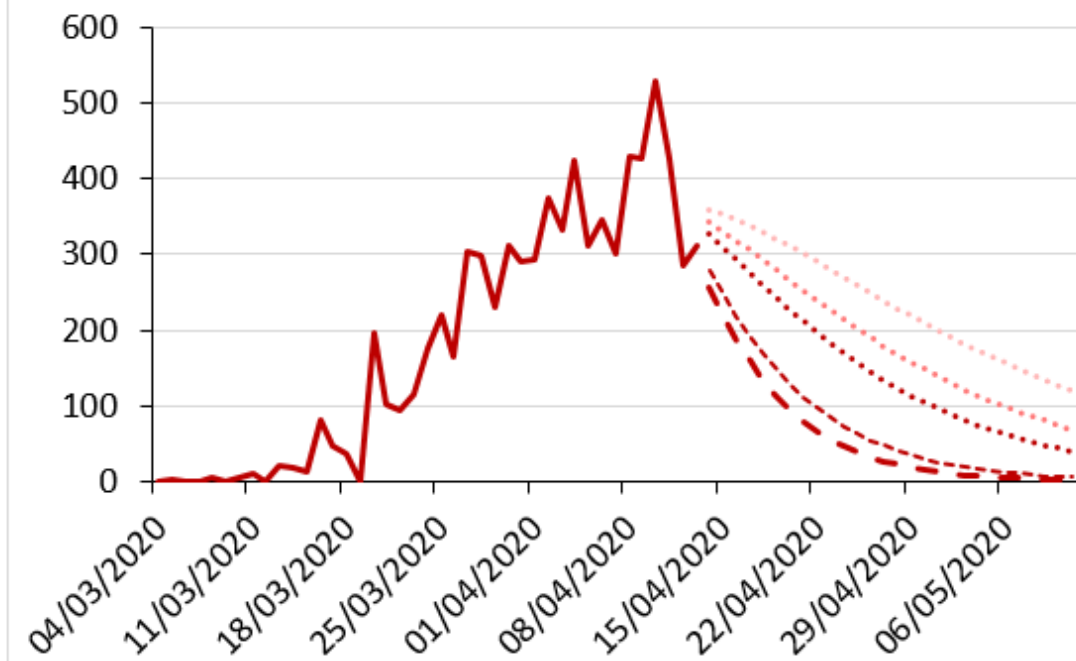
Chile

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Cumulated



Daily

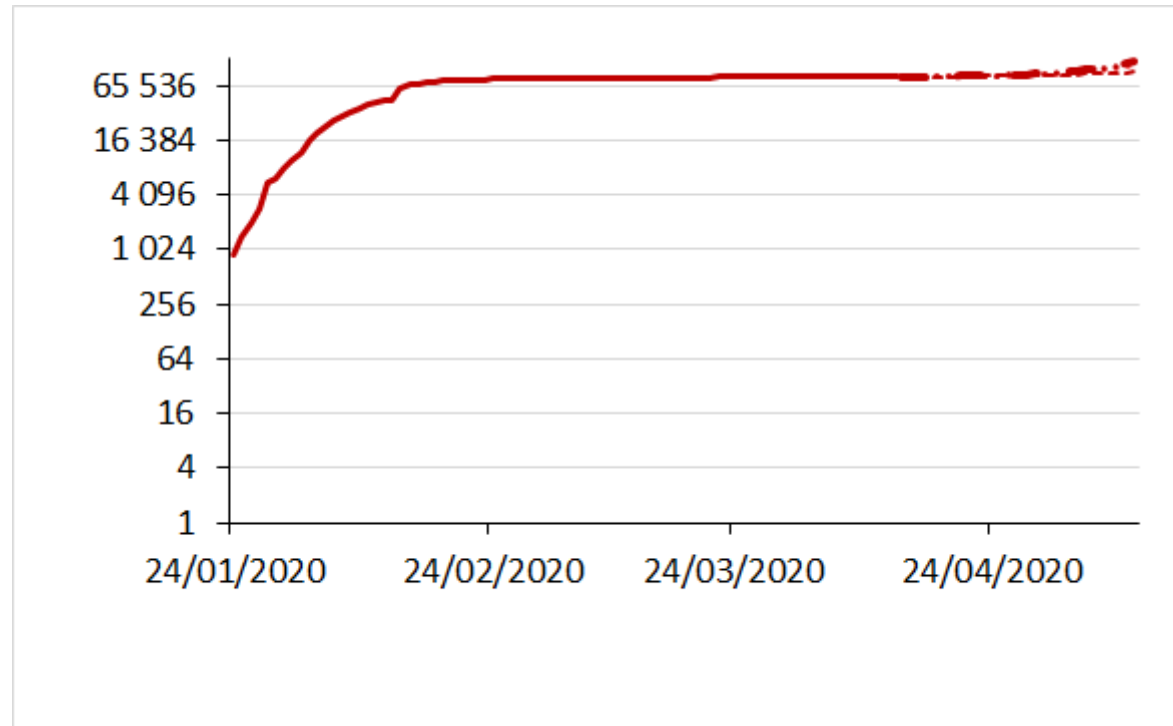


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China

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

Cumulated

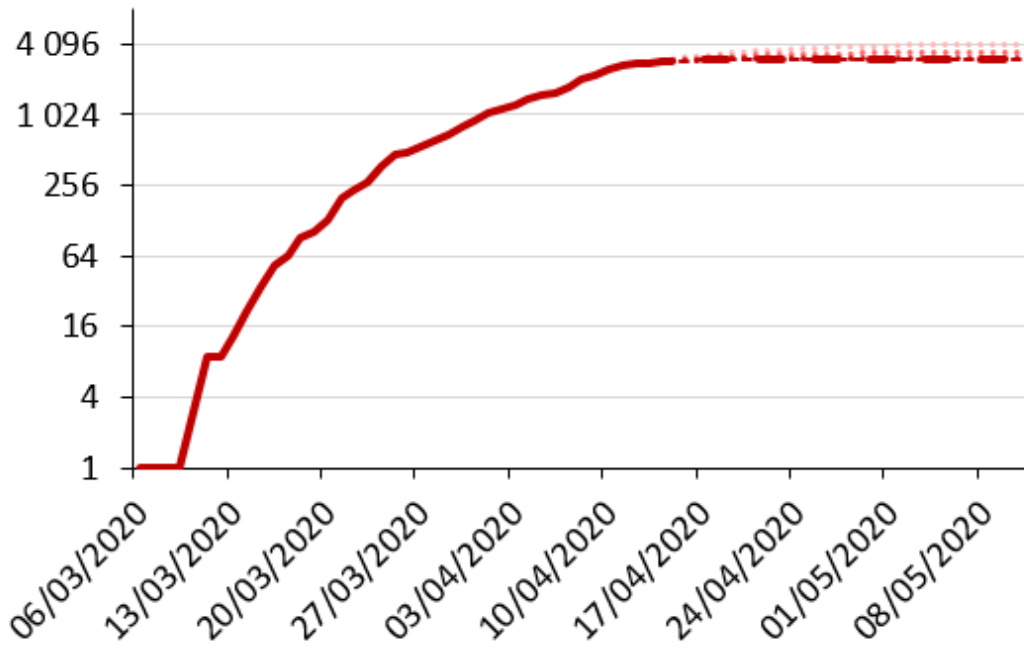


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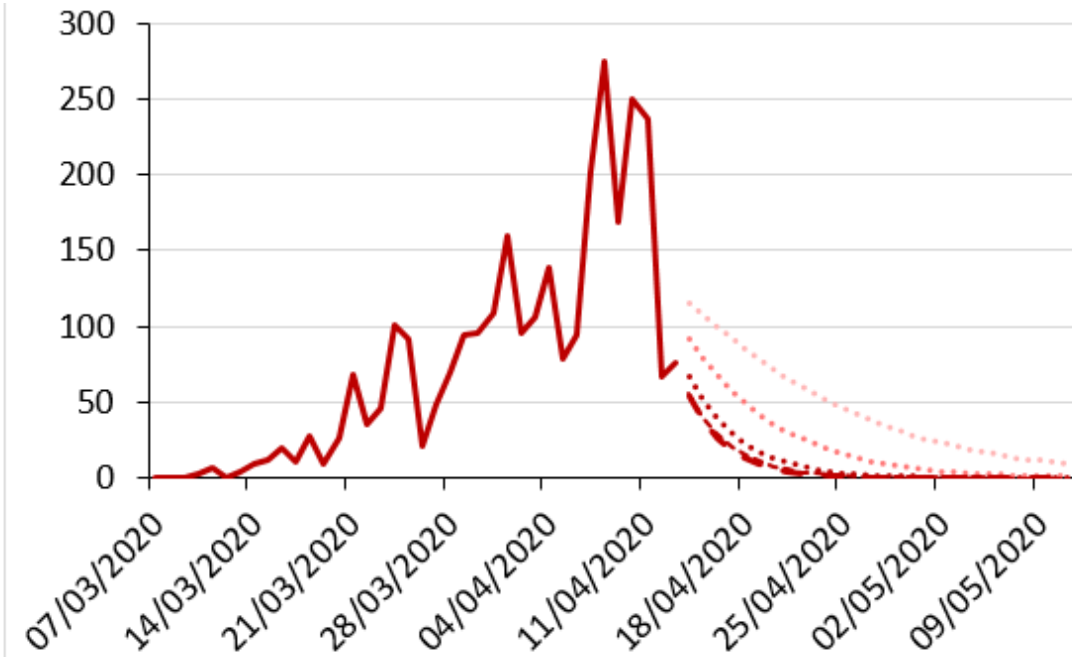
Colombia

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Cumulated



Daily

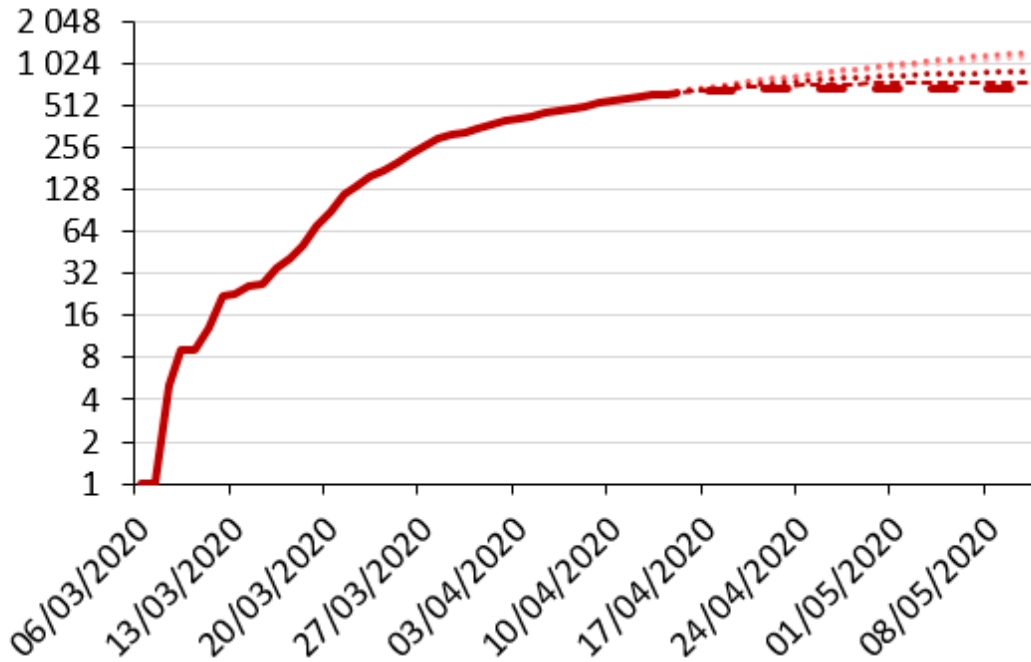


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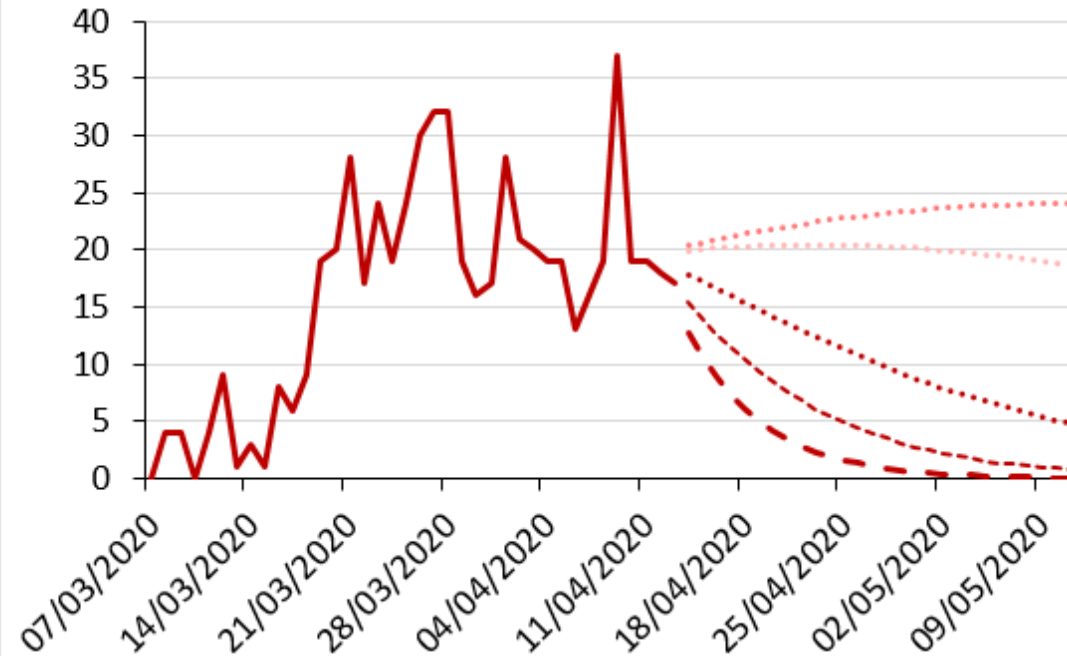
Costa Rica

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Cumulated



Daily

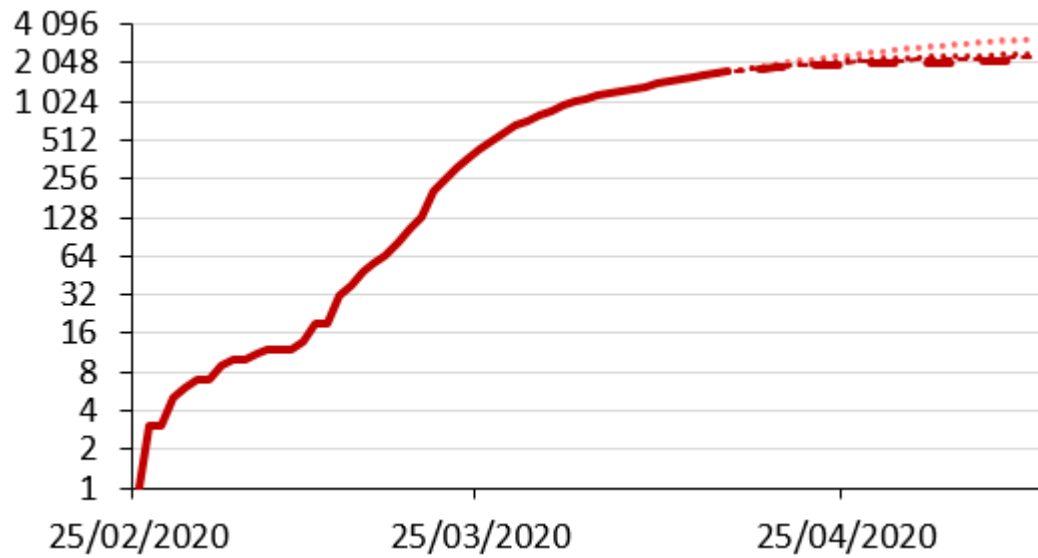


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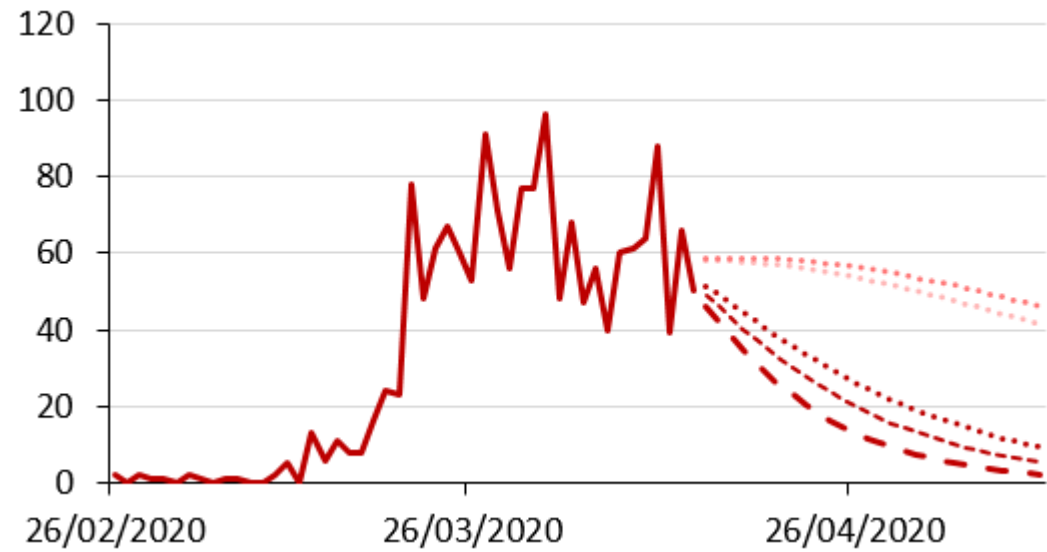
Croatia

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Cumulated



Daily

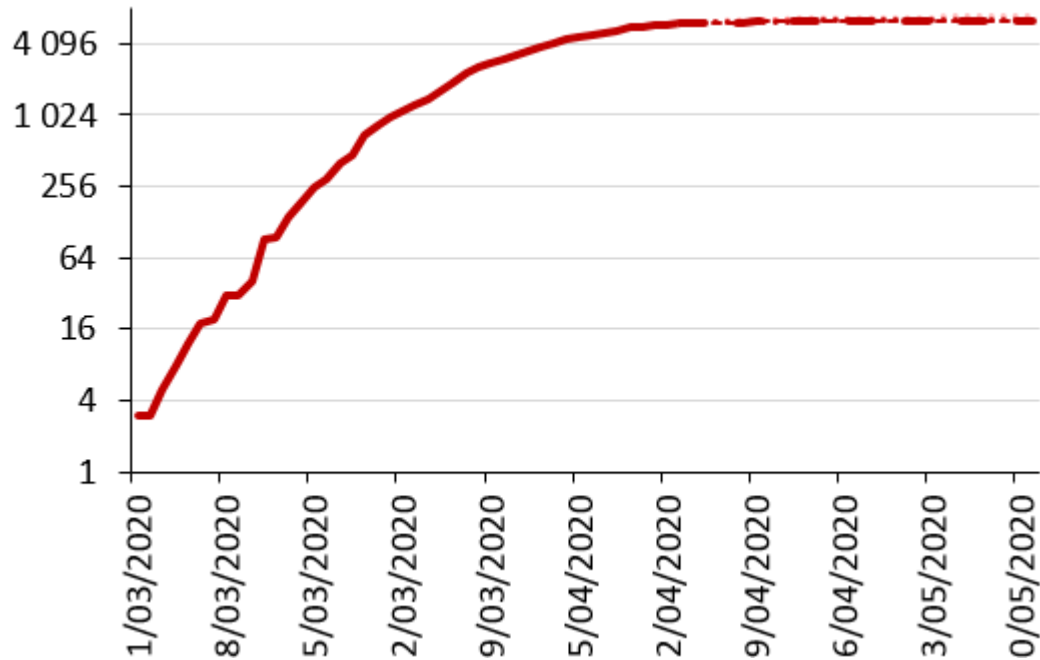


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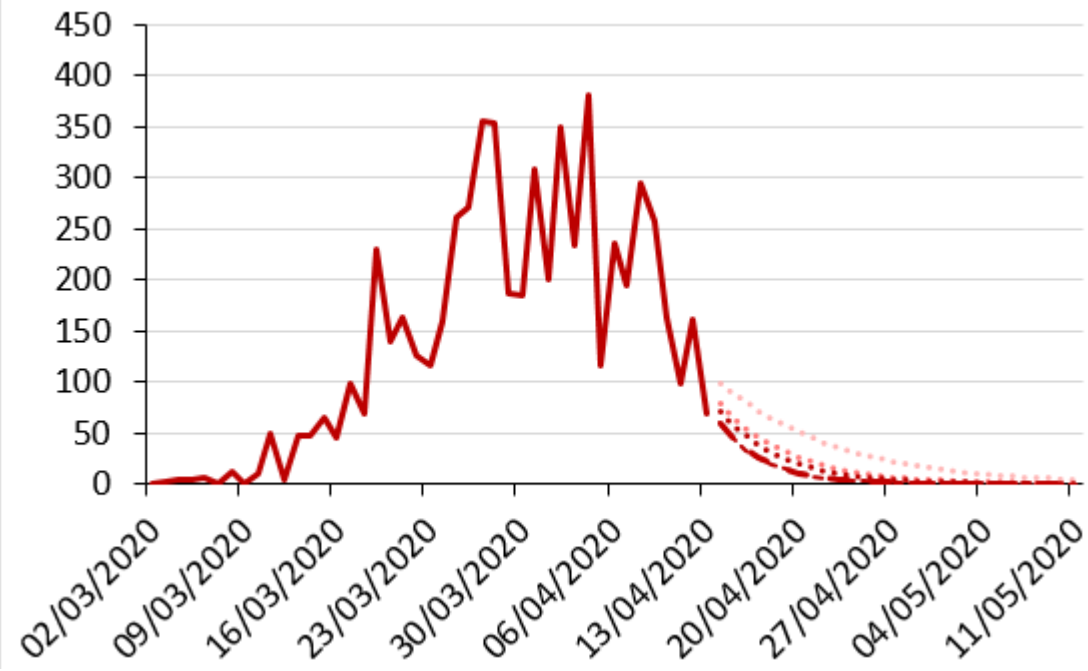
Czech Republic

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

Cumulated



Daily

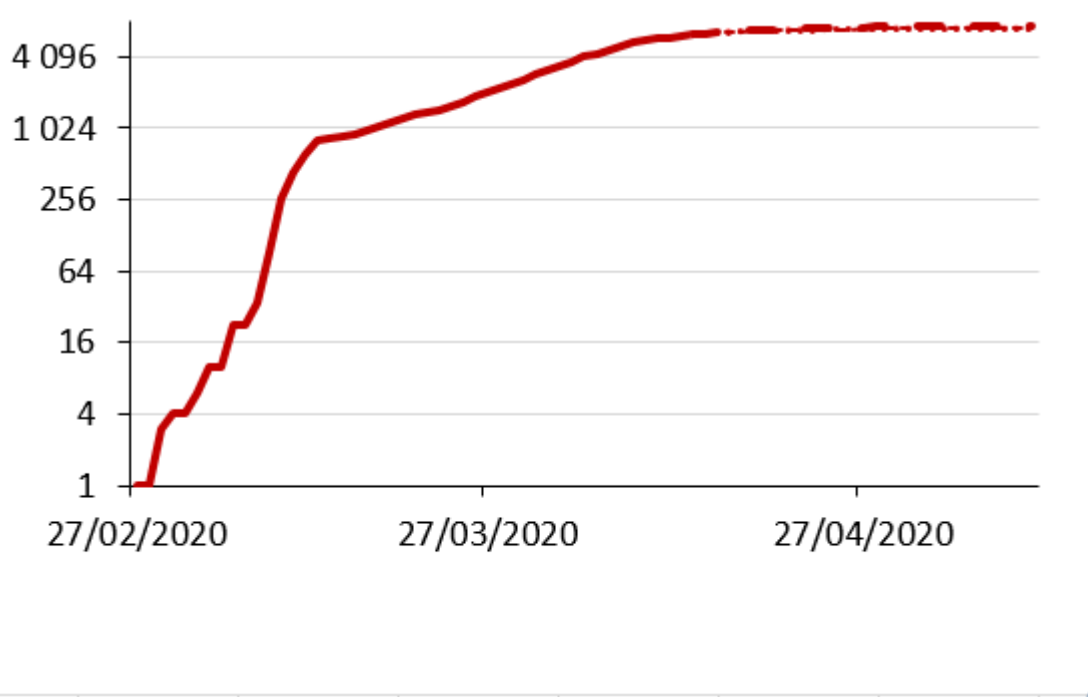


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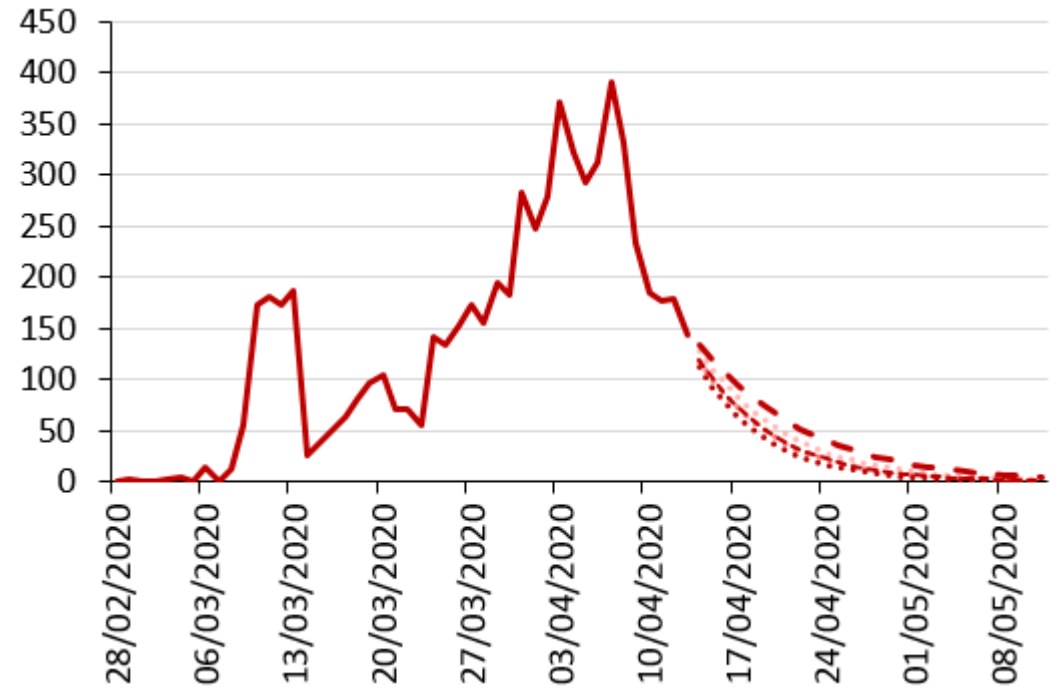
Denmark

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

Cumulated



Daily

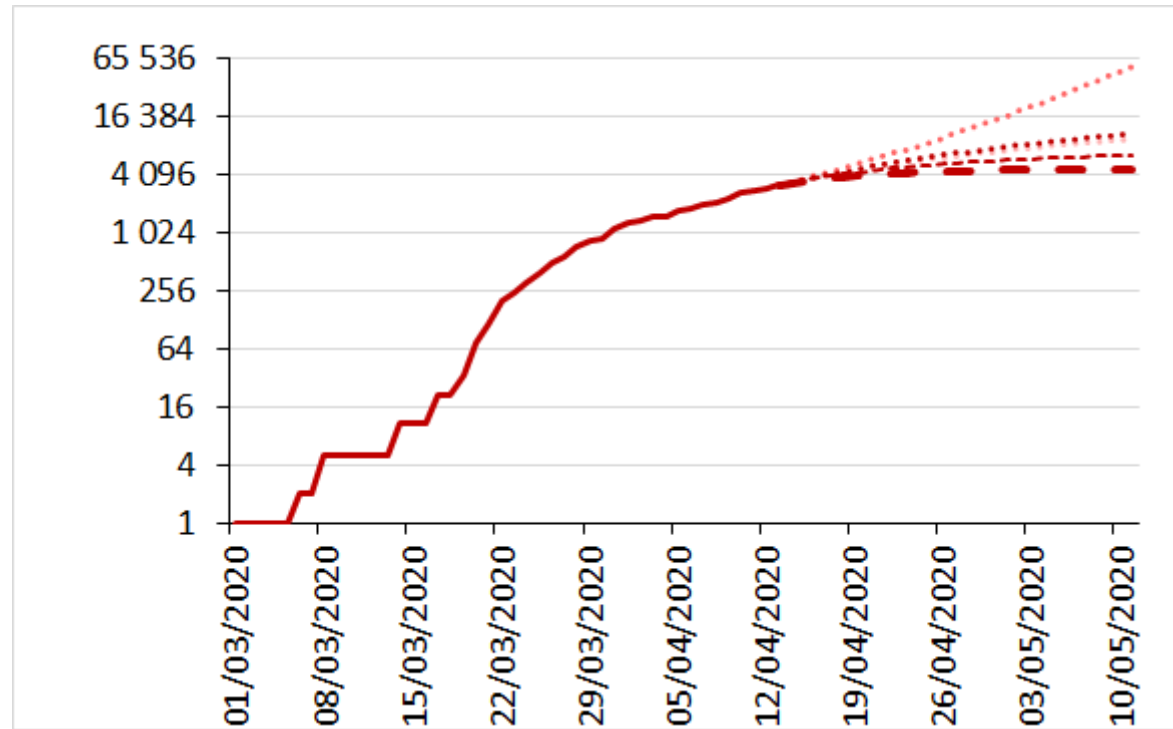


Data: The Johns Hopkins University, Politolog.com

Dominican Republic

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

Cumulated

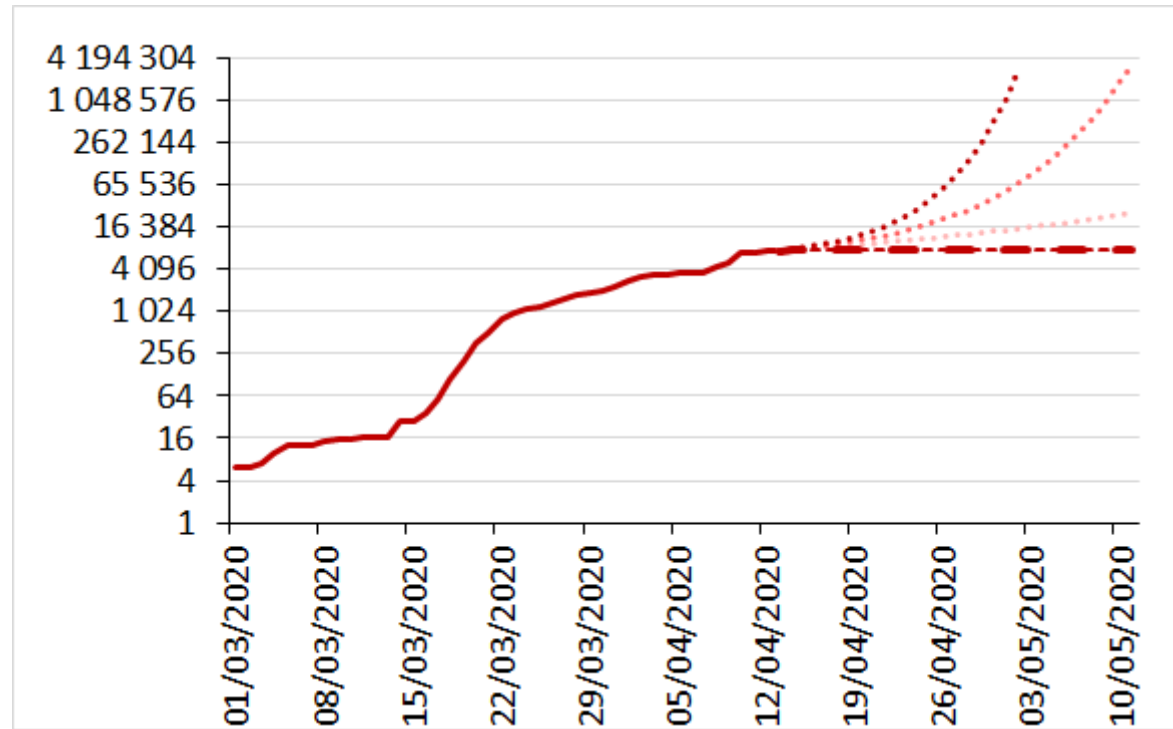


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Ecuador

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

Cumulated

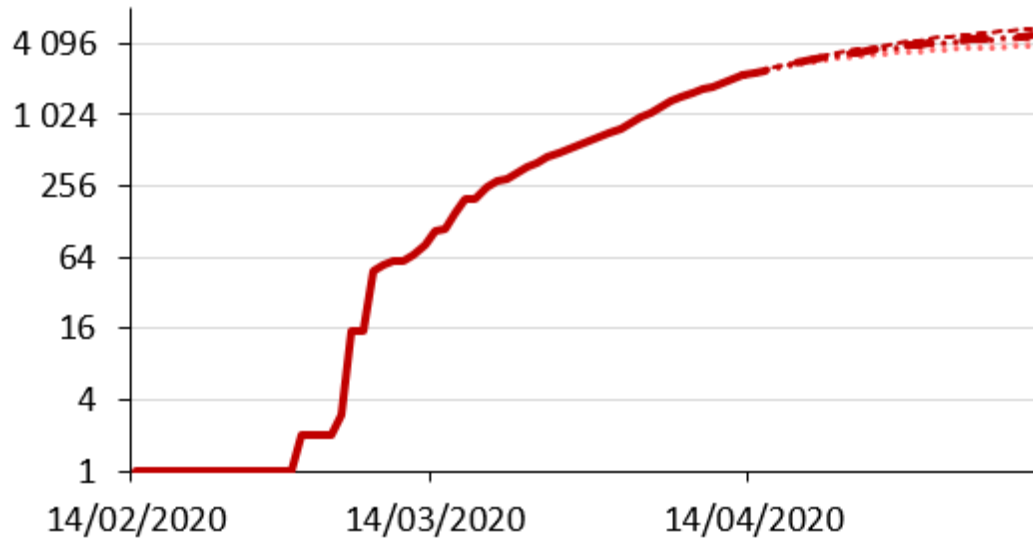


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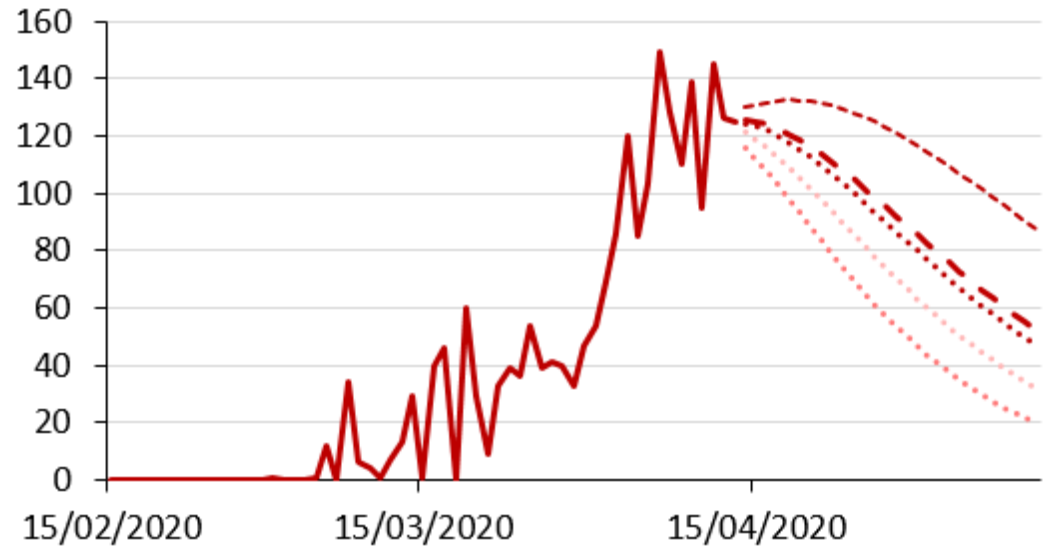
Egypt

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

Cumulated



Daily

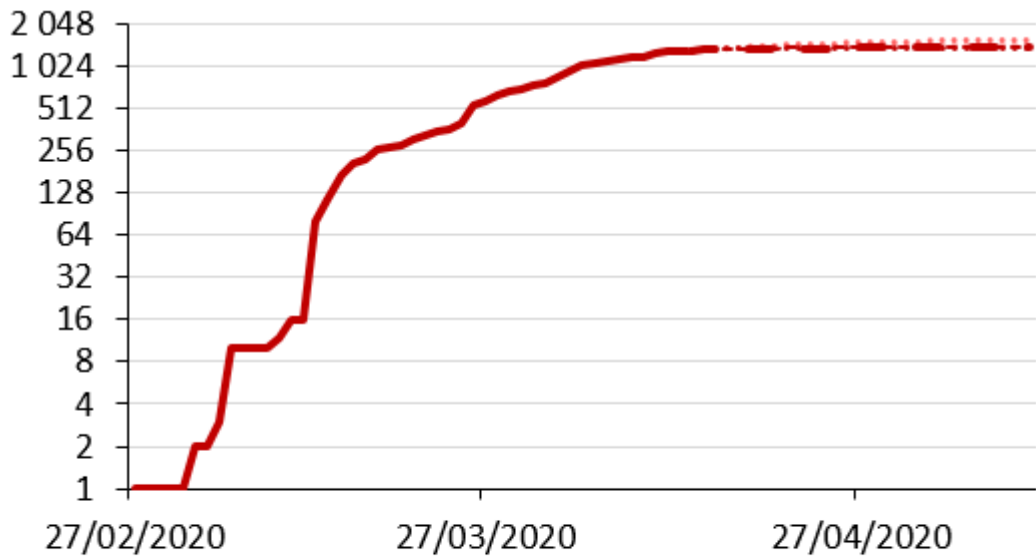


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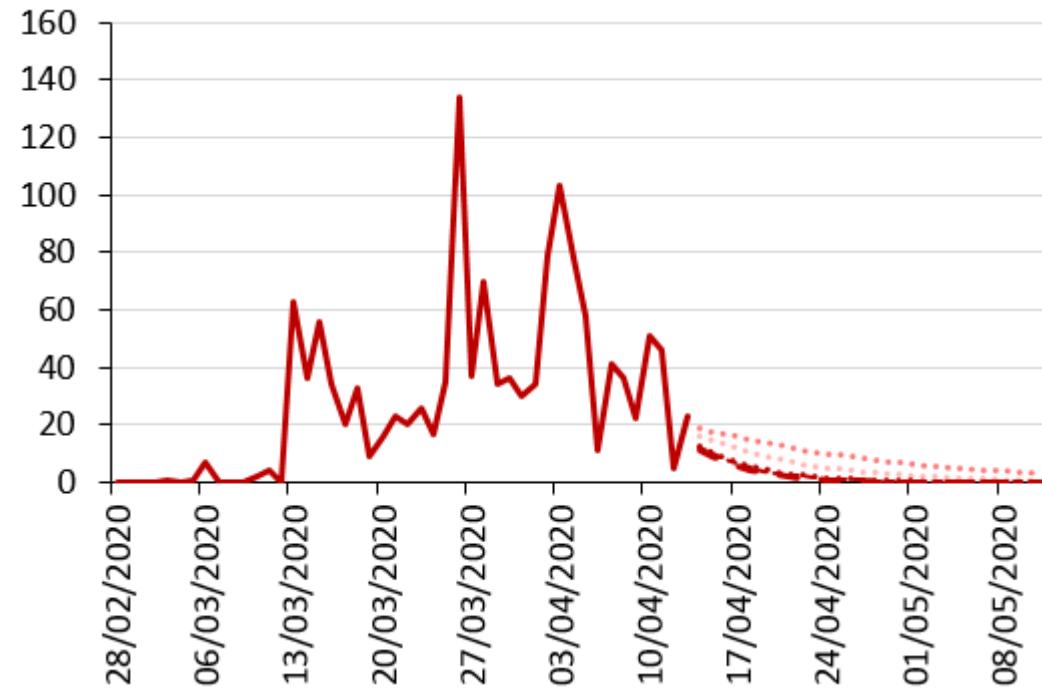
Estonia

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

Cumulated



Daily

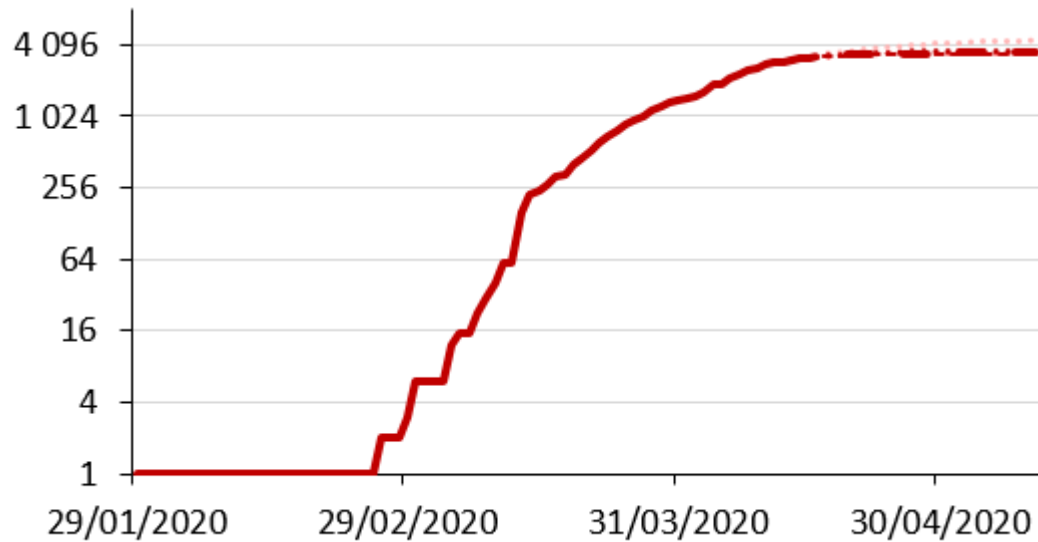


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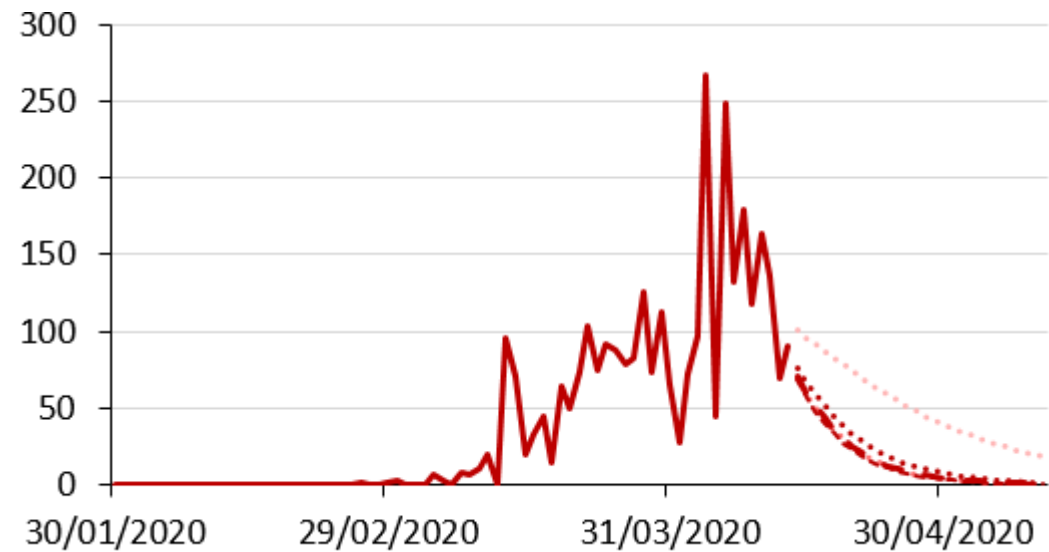
Finland

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

Cumulated



Daily

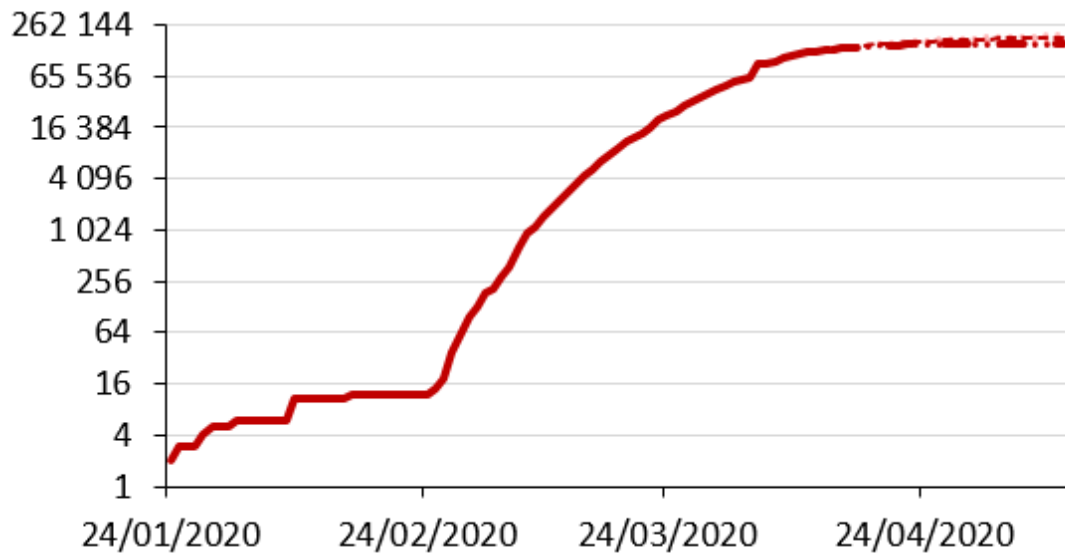


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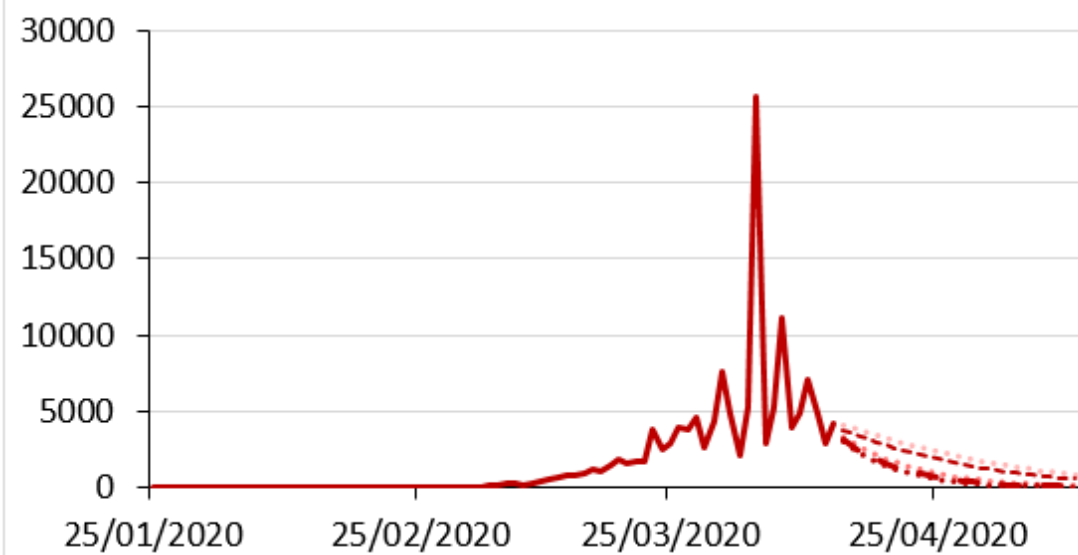
France

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

Cumulated



Daily

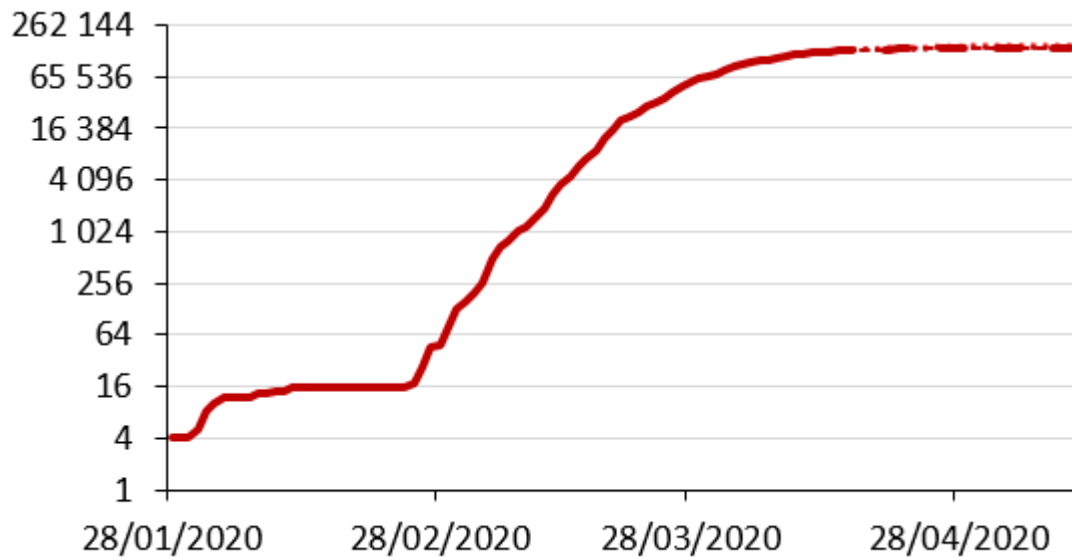


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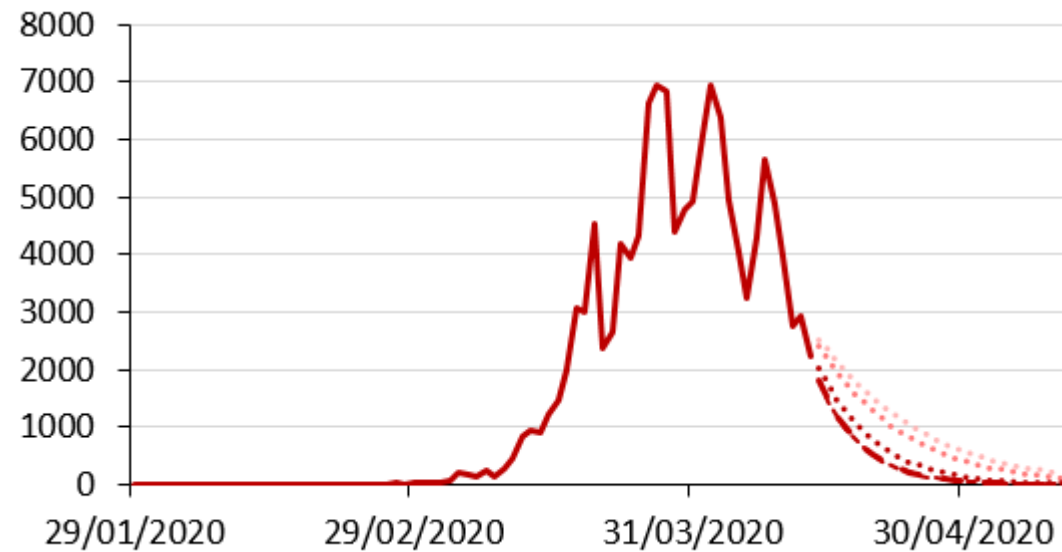
Germany

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

Cumulated



Daily

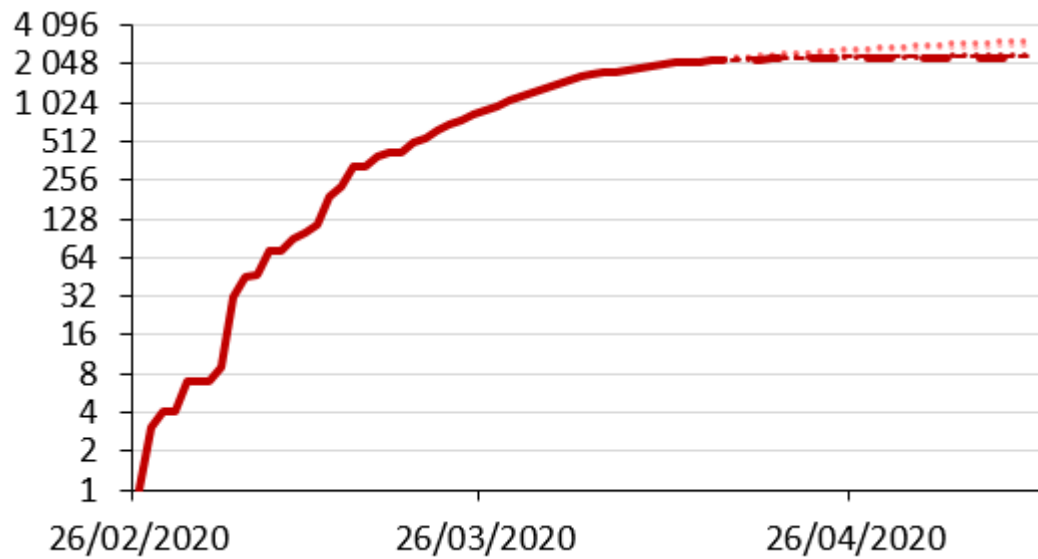


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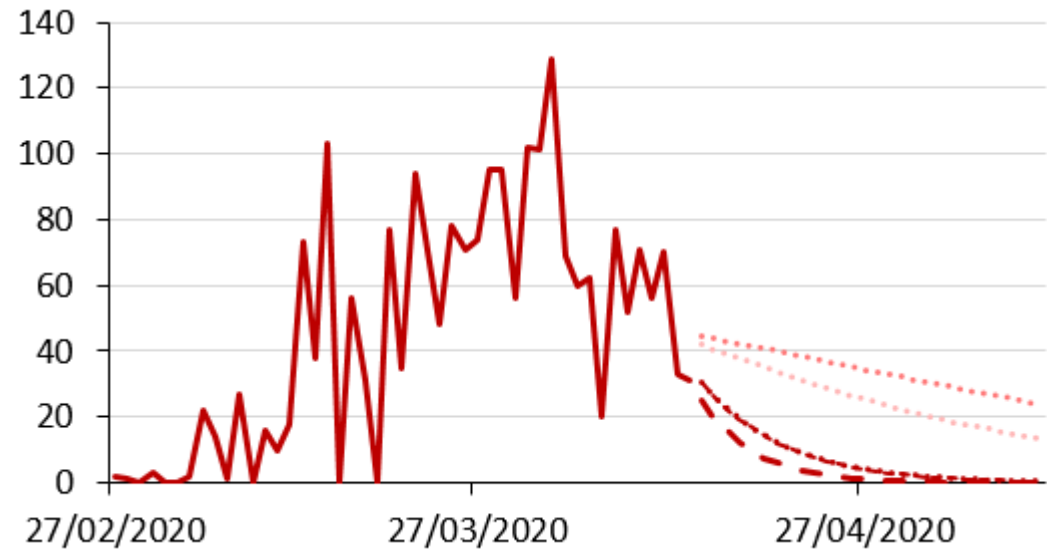
Greece

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

Cumulated



Daily

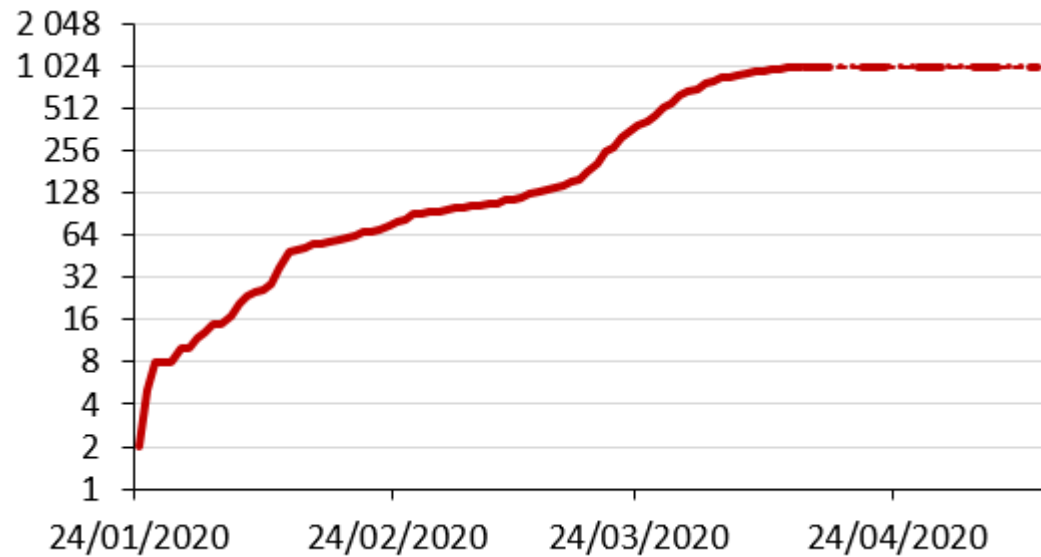


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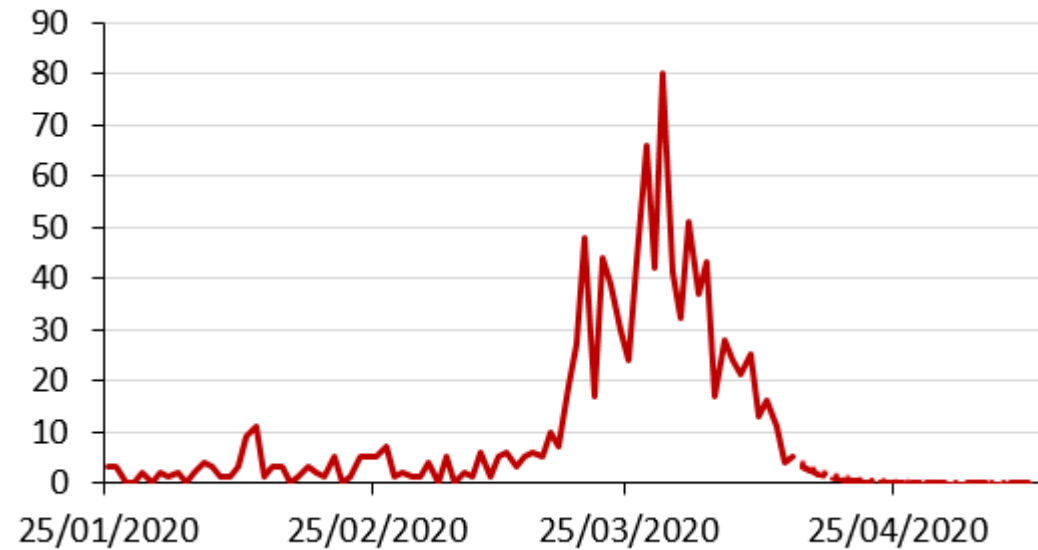
Hong Kong

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

Cumulated



Daily

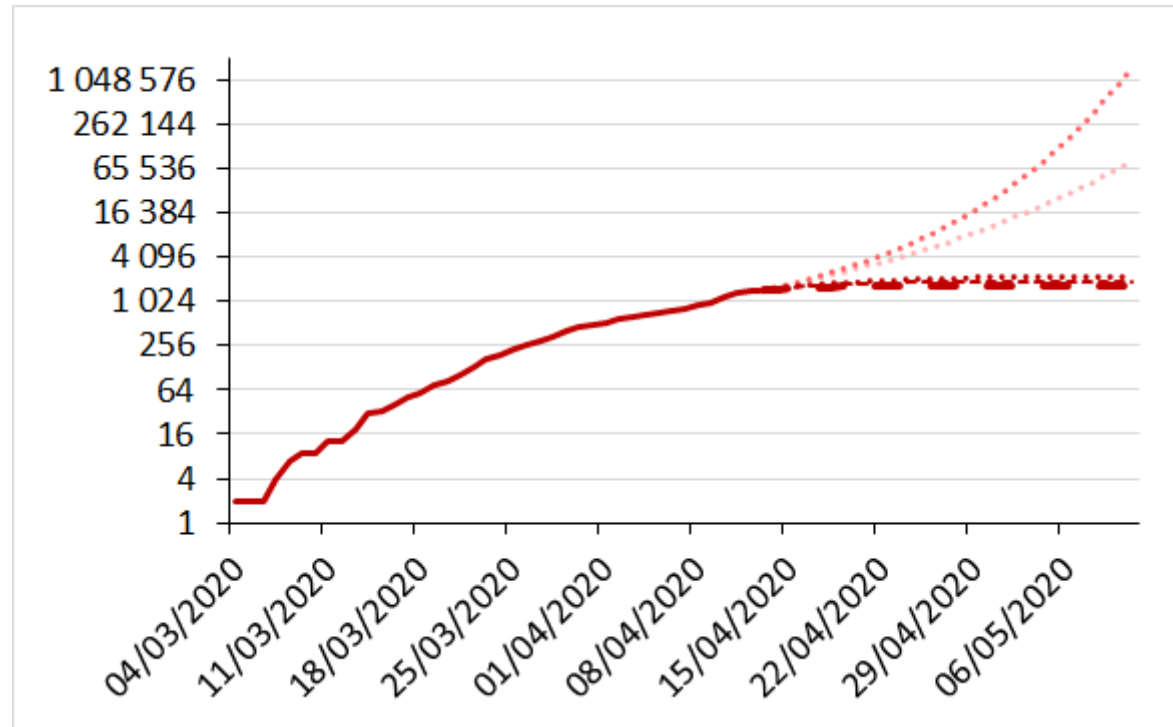


Data: The Johns Hopkins University, Politolog.com

Hungary

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

Cumulated

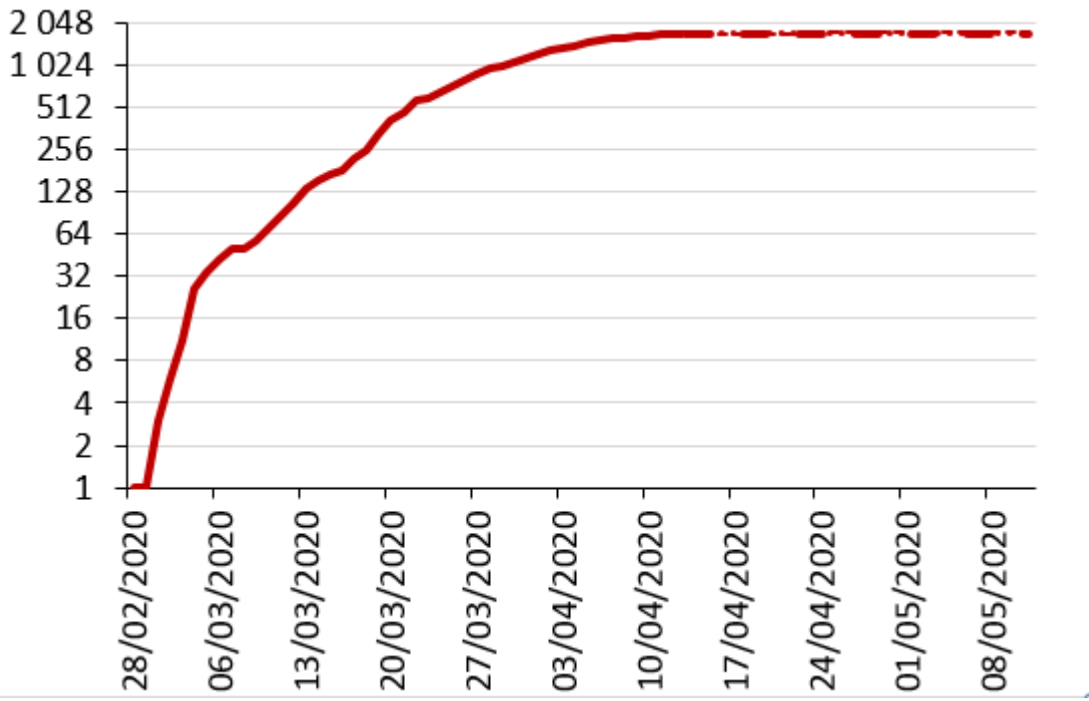


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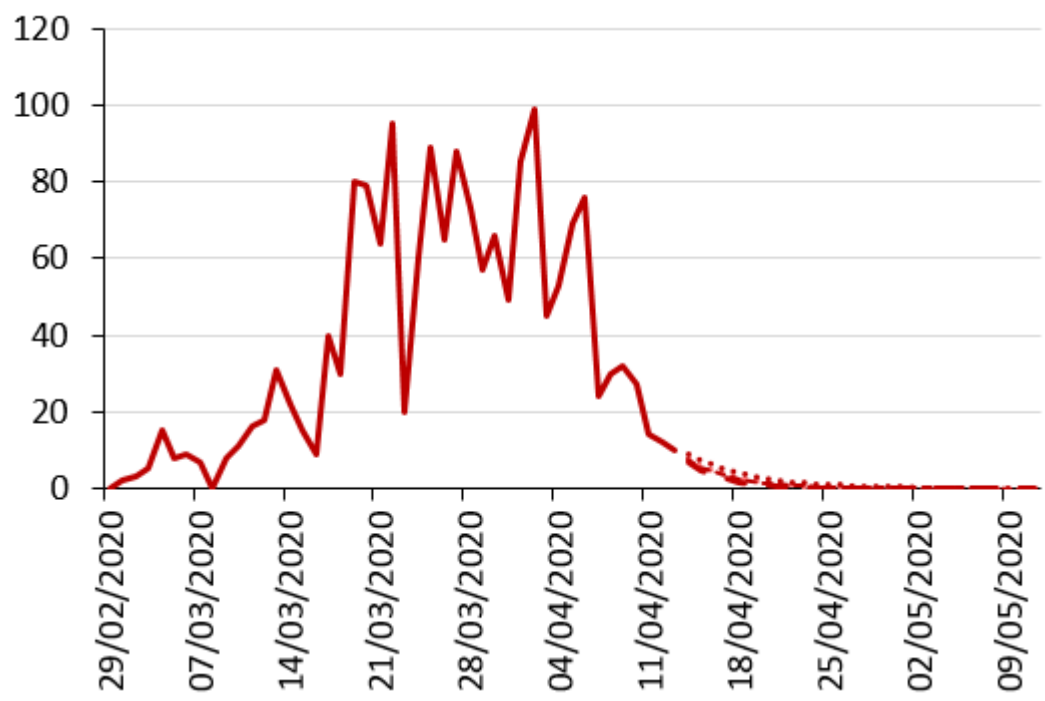
Iceland

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

Cumulated



Daily

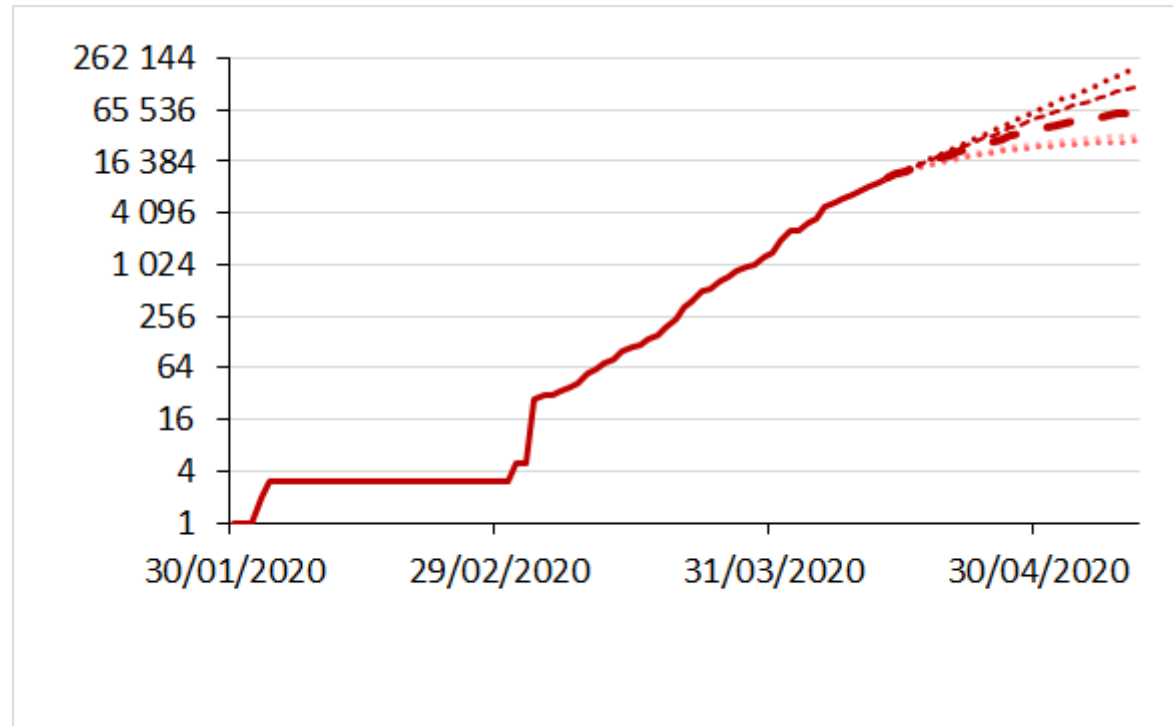


Data: The Johns Hopkins University, Politolog.com

India

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

Cumulated

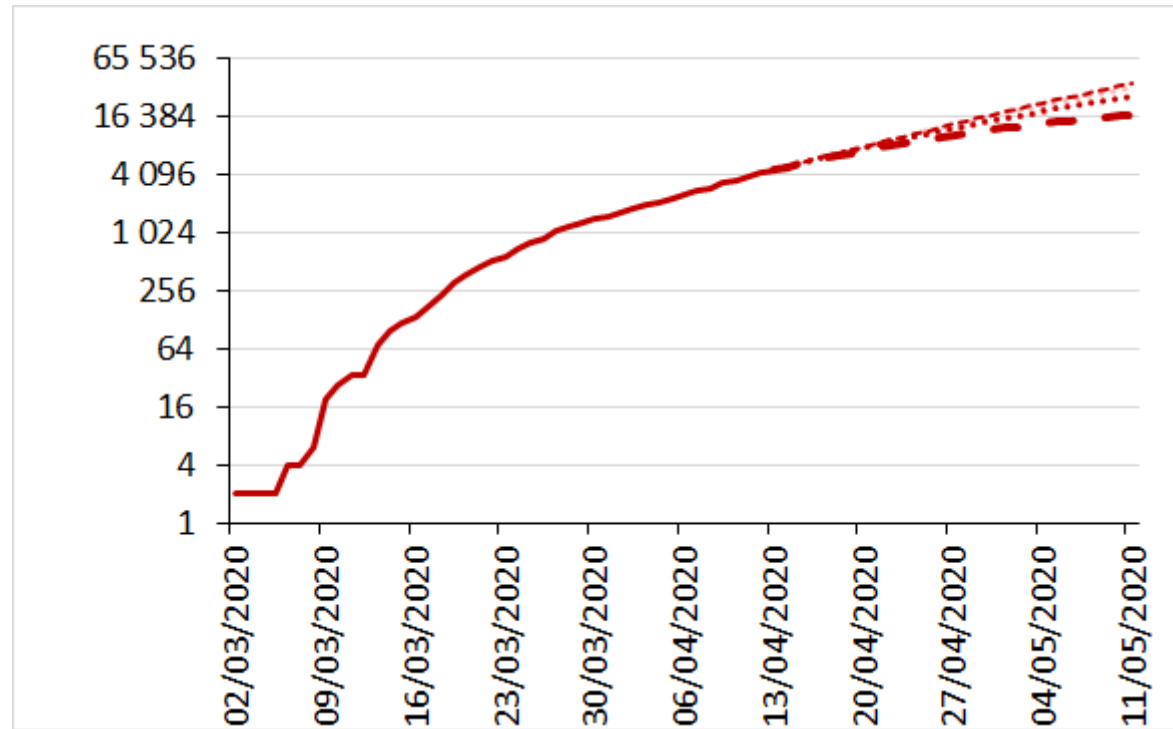


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Indonesia

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

Cumulated

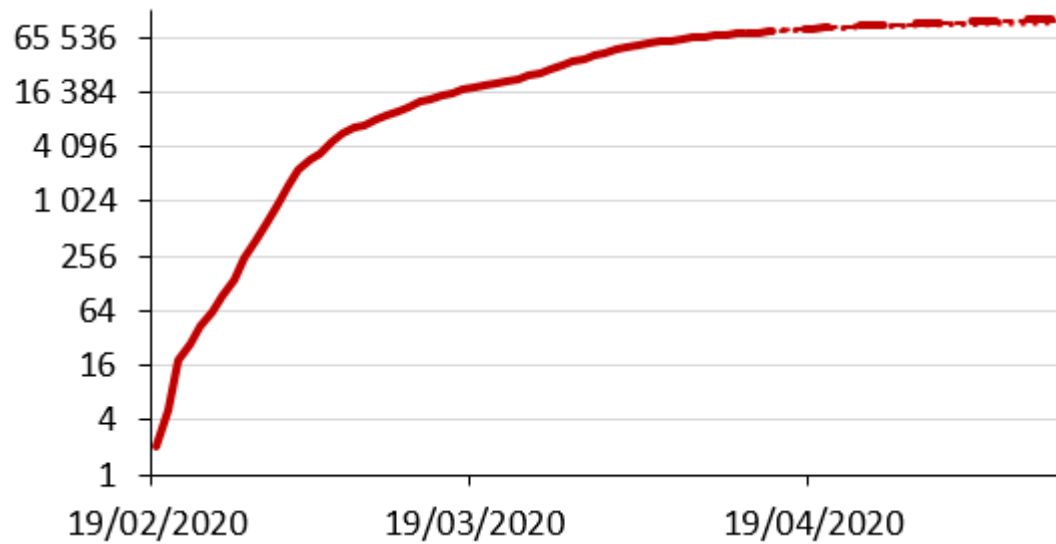


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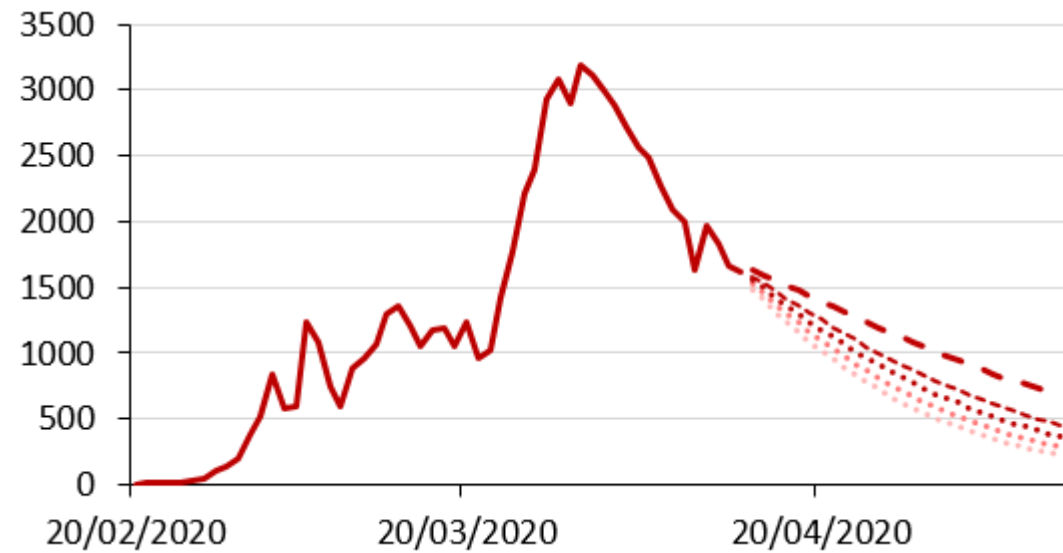
Iran

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

Cumulated



Daily

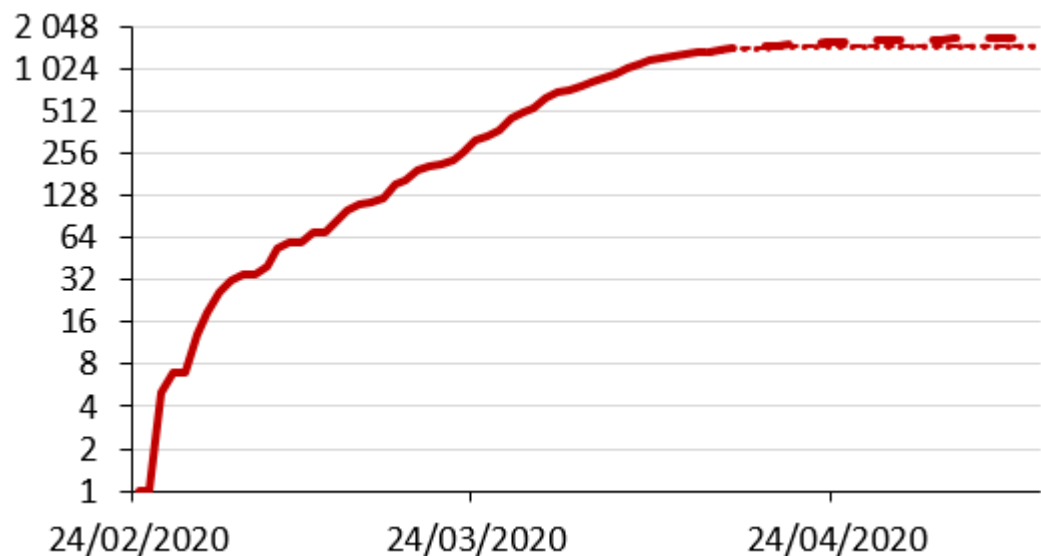


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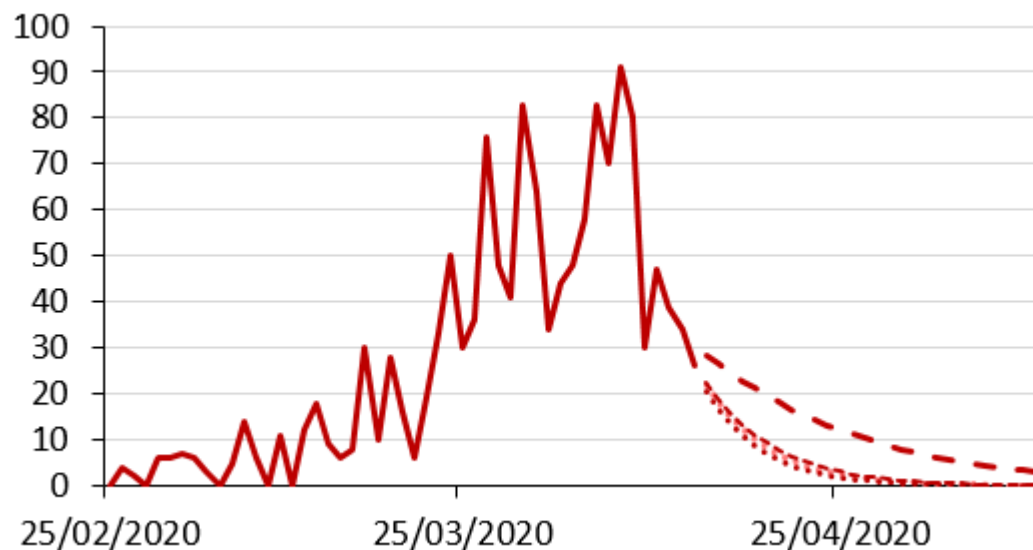
Iraq

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

Cumulated



Daily

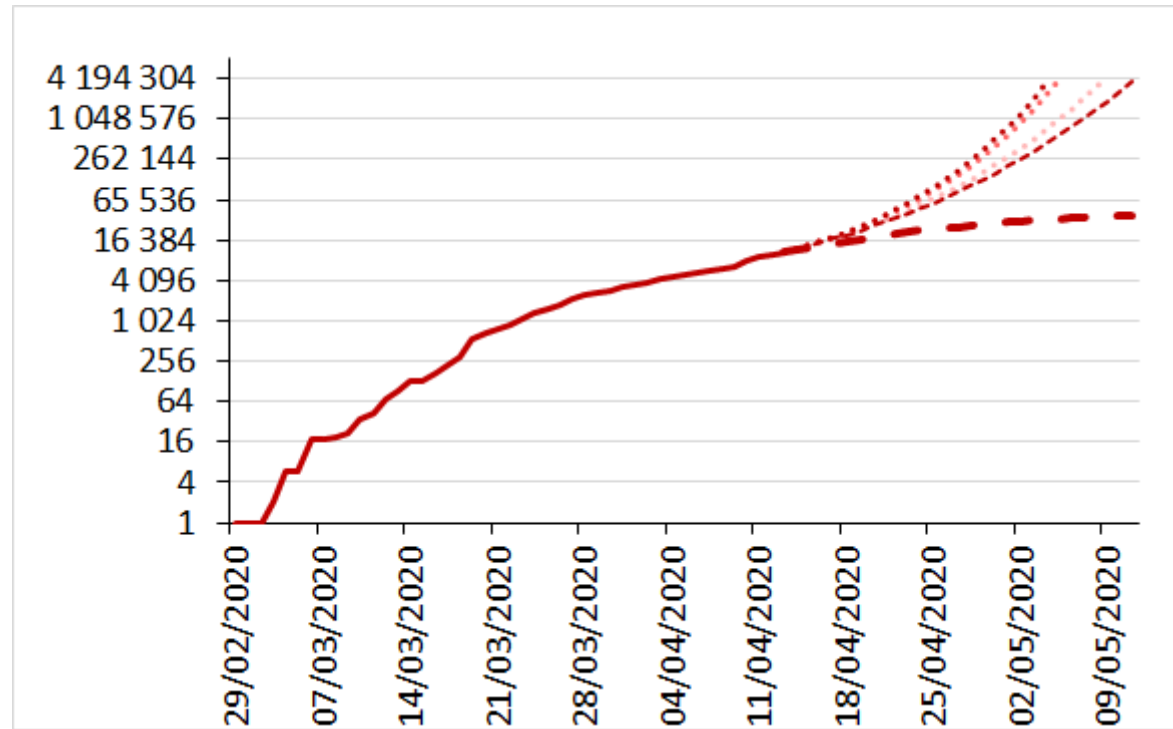


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Ireland

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

Cumulated

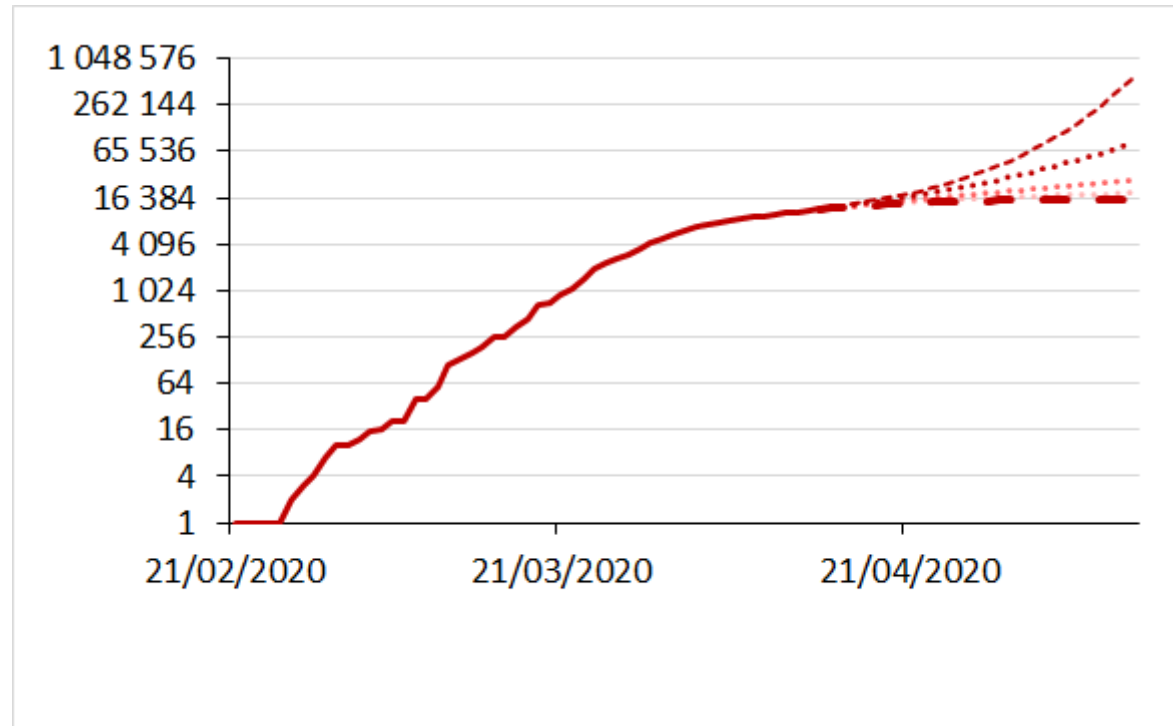


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Israel

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

Cumulated

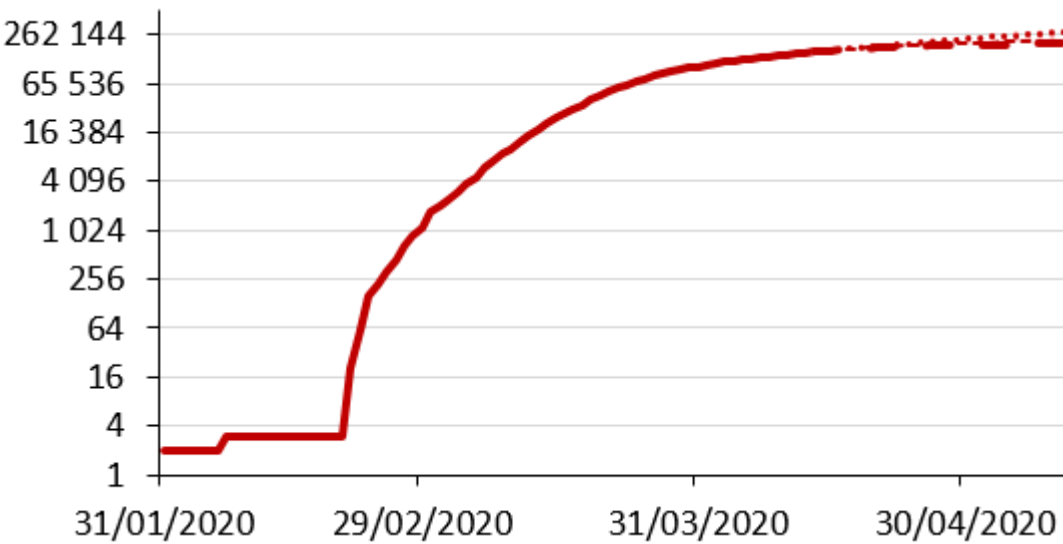


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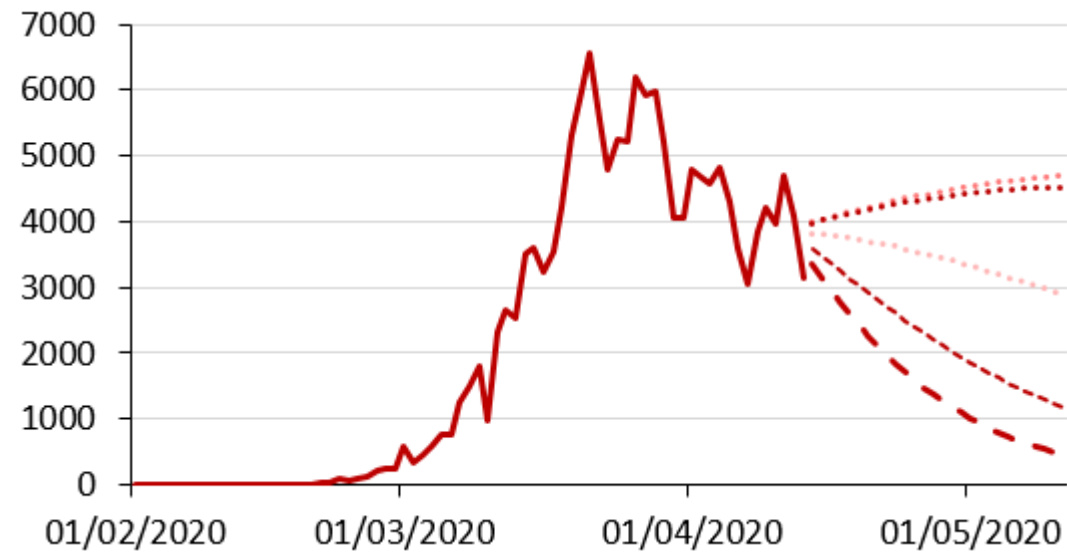
Italy

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

Cumulated



Daily

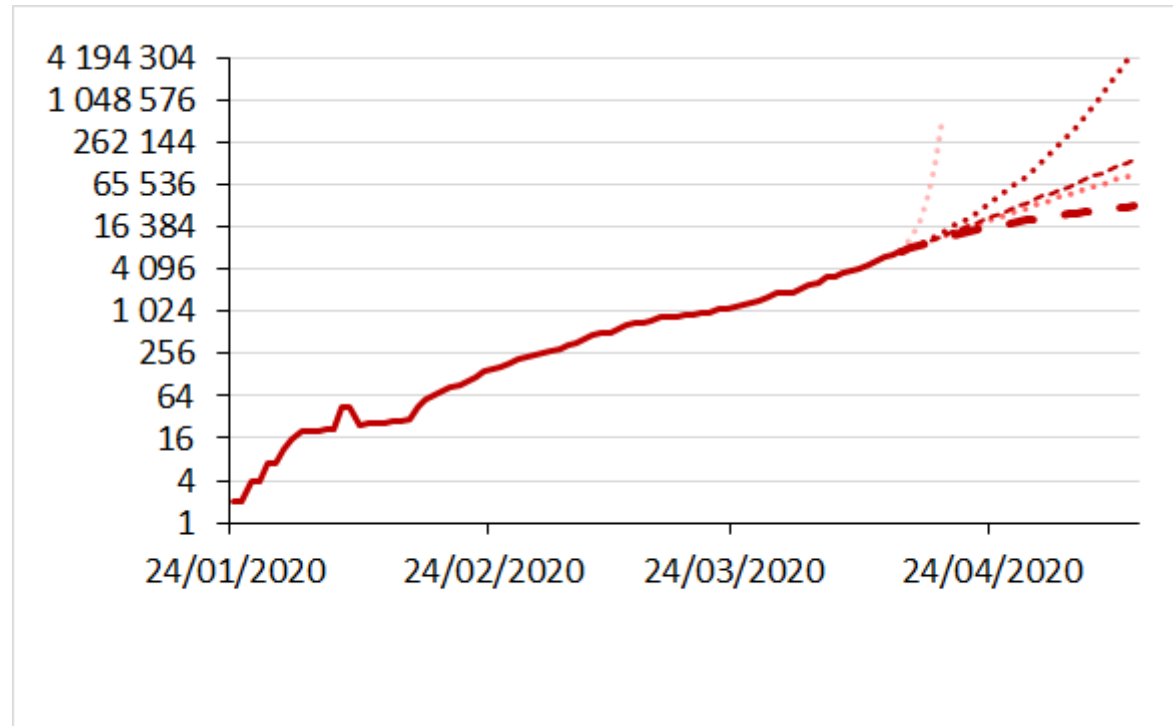


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Japan

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

Cumulated

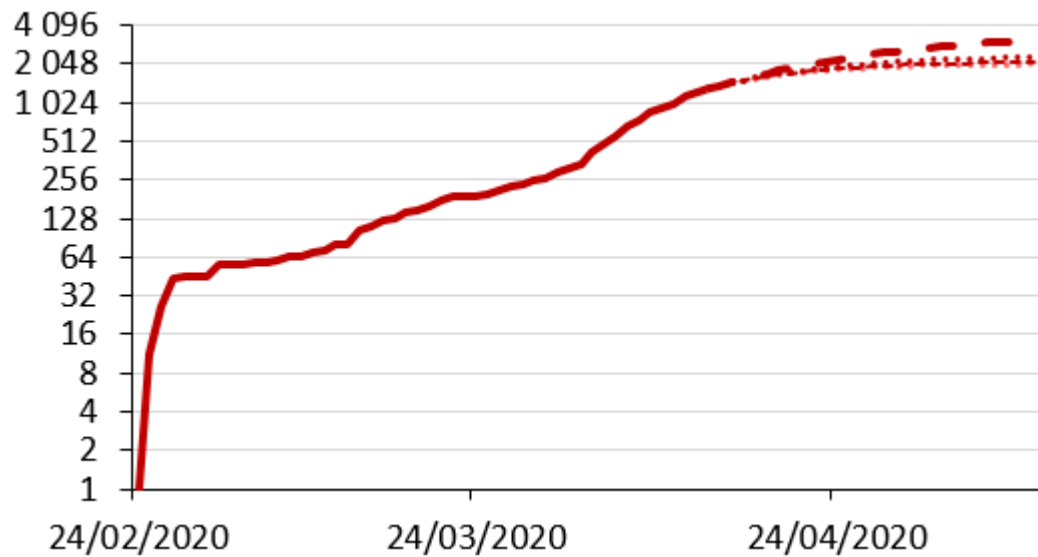


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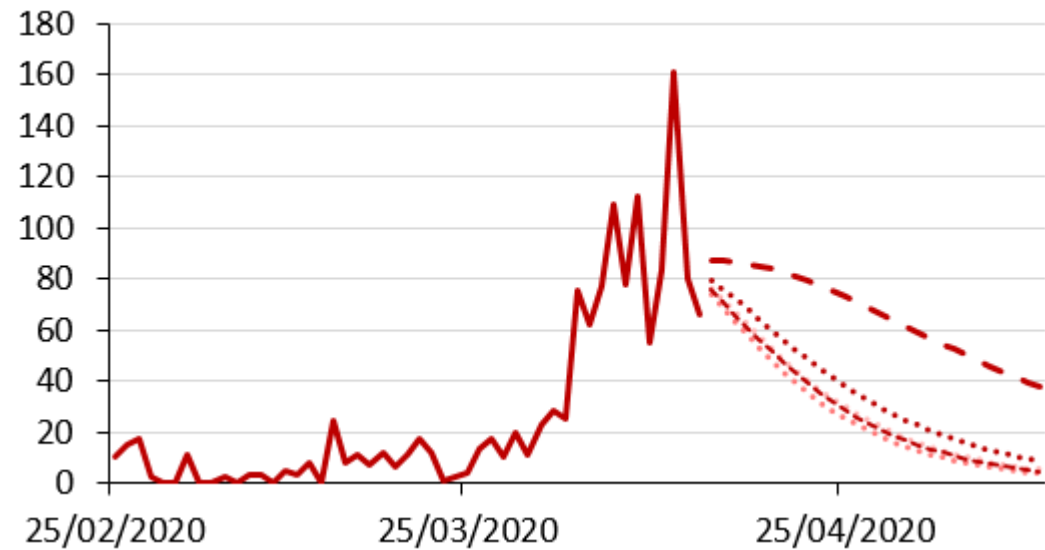
Kuwait

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

Cumulated



Daily



Data: The Johns Hopkins University, Politolog.com

Kazakhstan

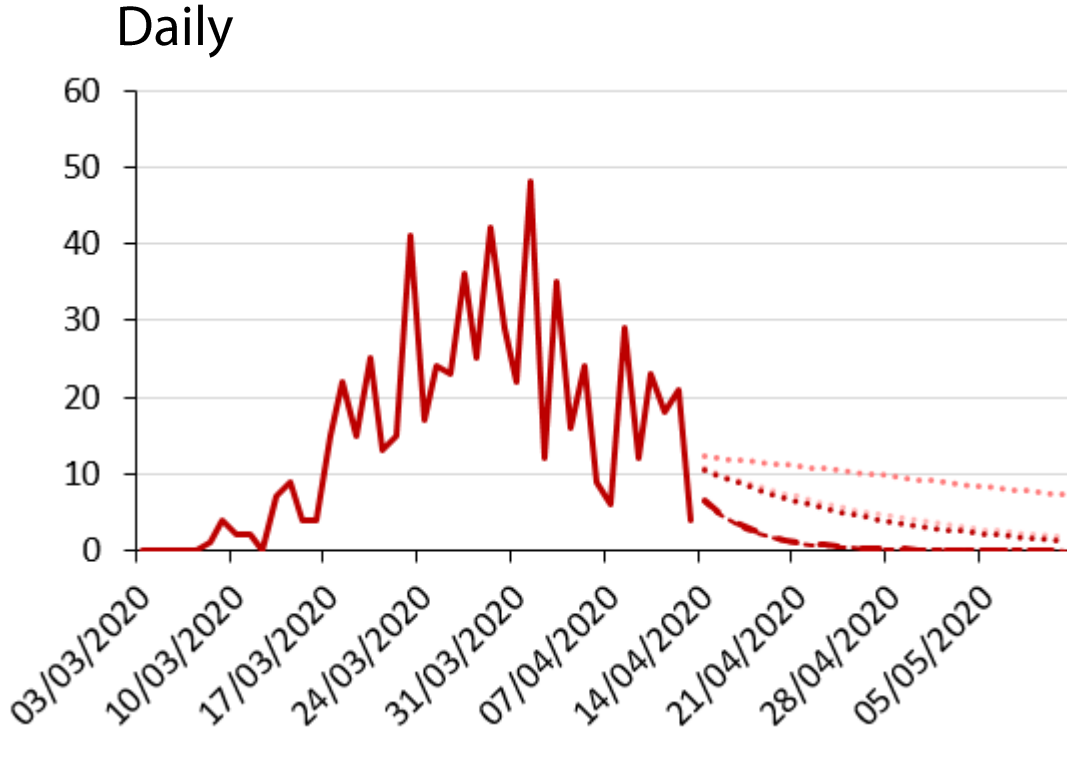
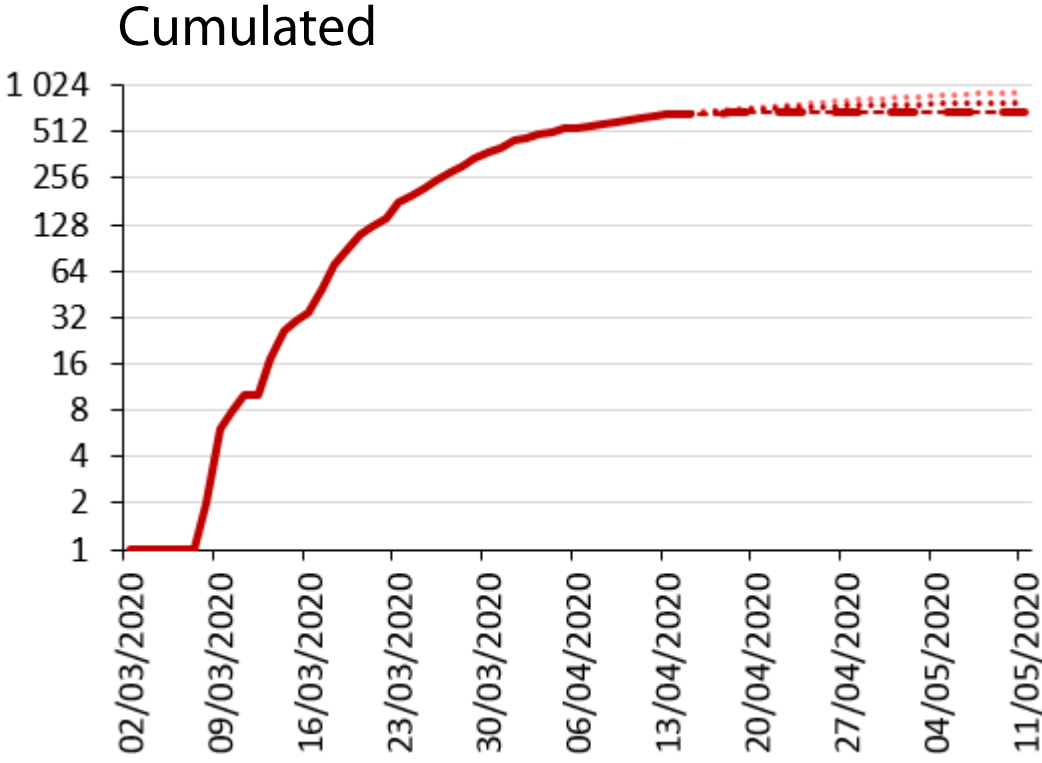
— CONFIRMED 9 days'fit 8 days'fit 7 days'fit - - - - 6 days'fit - - 5 days'fit

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

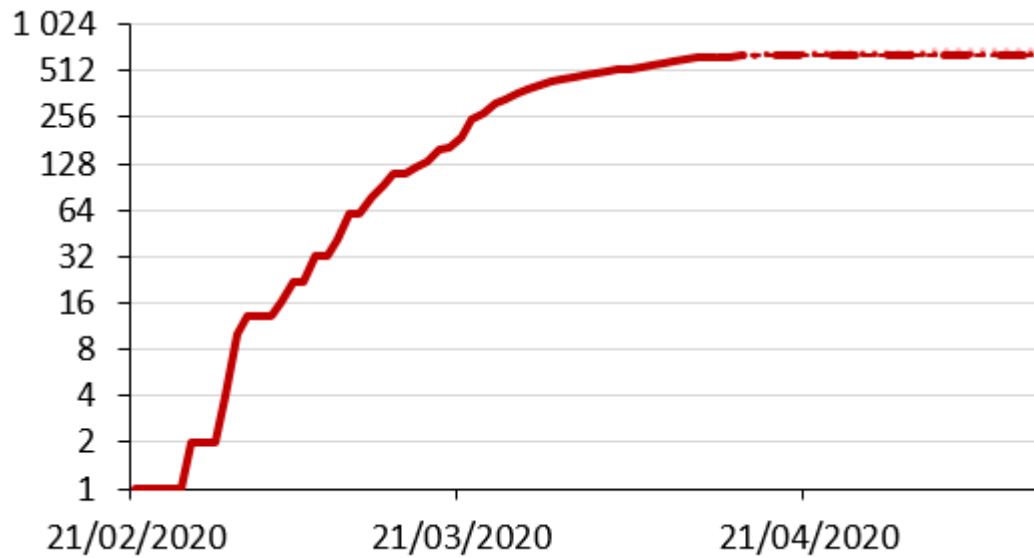


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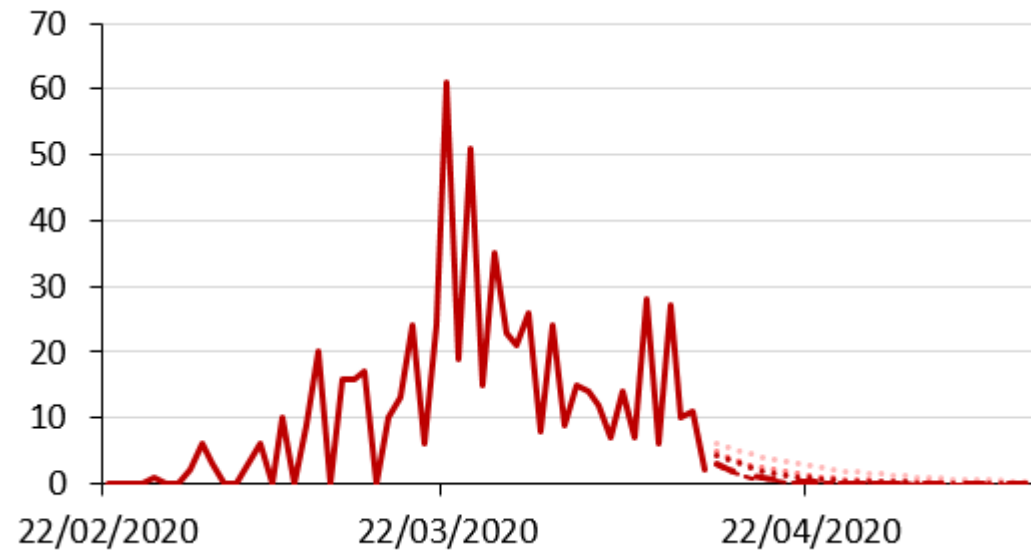
Lebanon

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

Cumulated



Daily

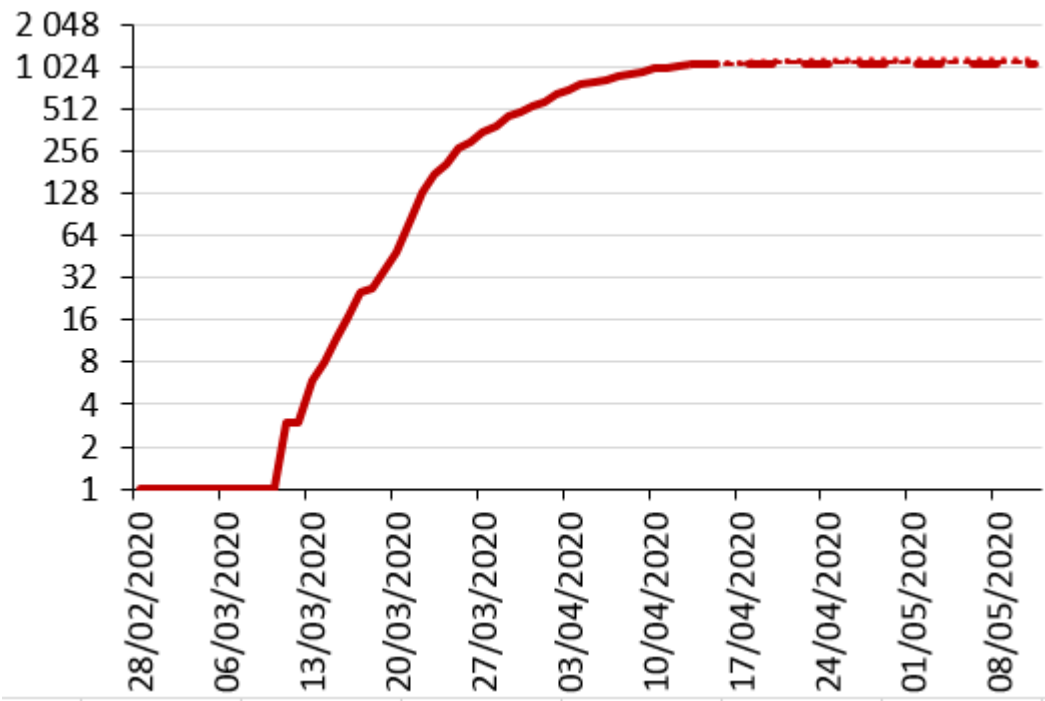


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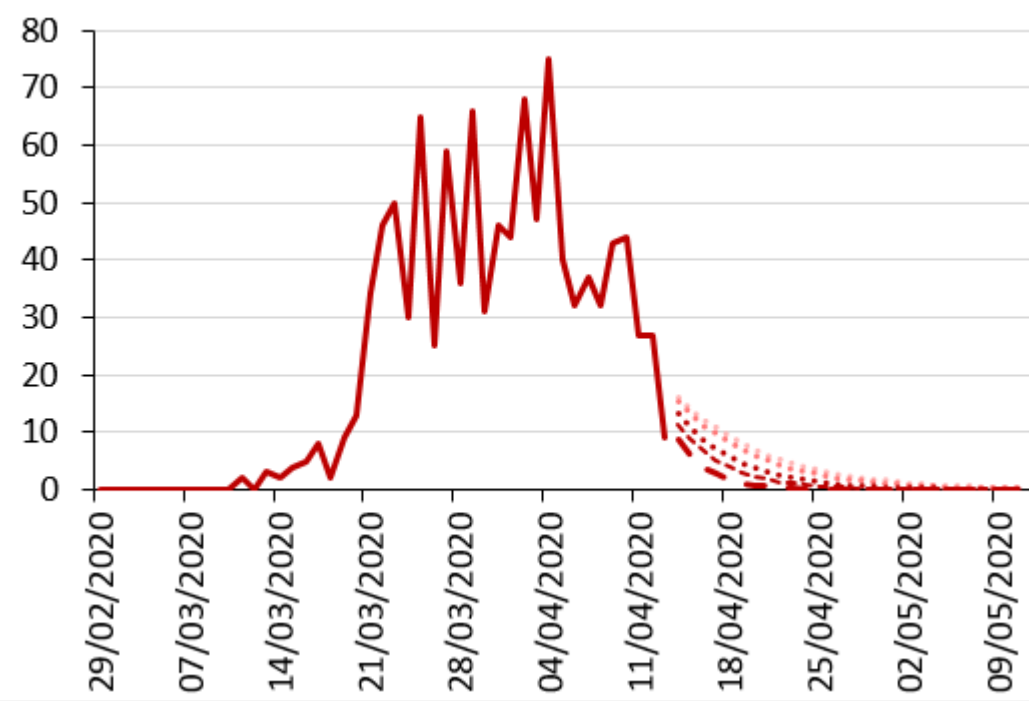
Lithuania

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

Cumulated



Daily

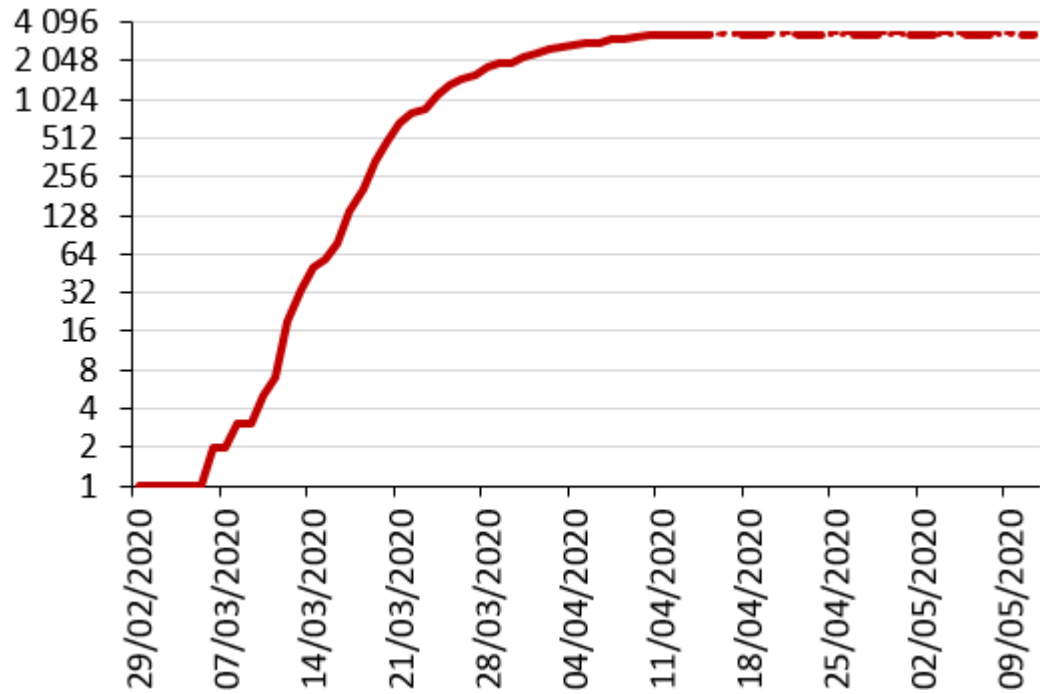


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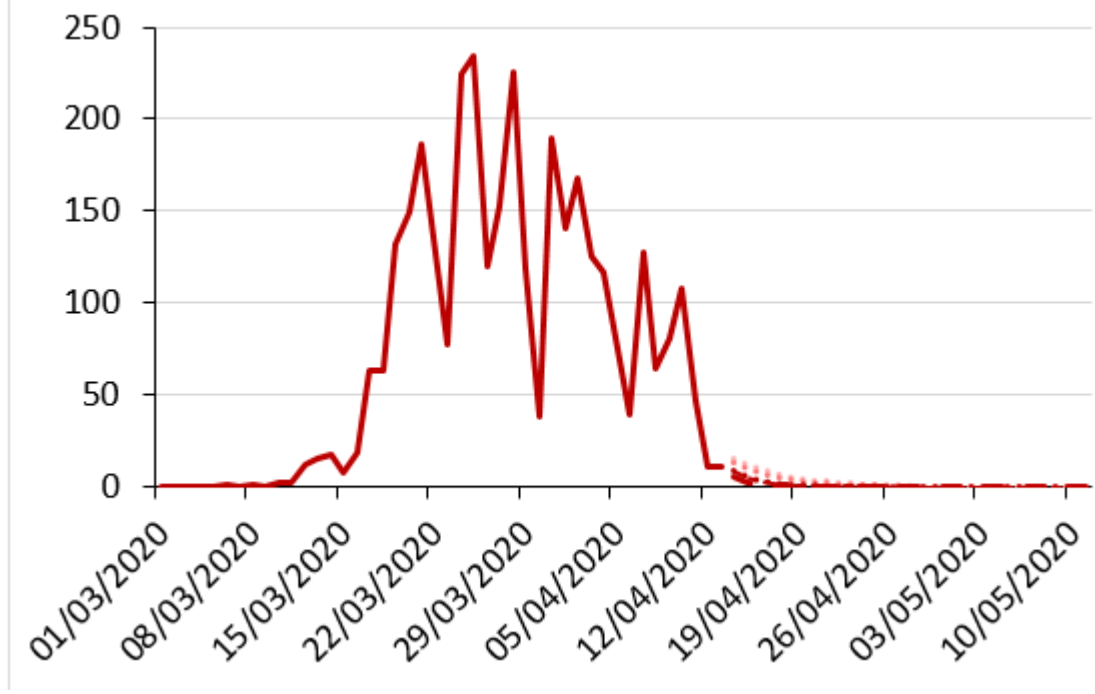
Luxembourg

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

Cumulated



Daily

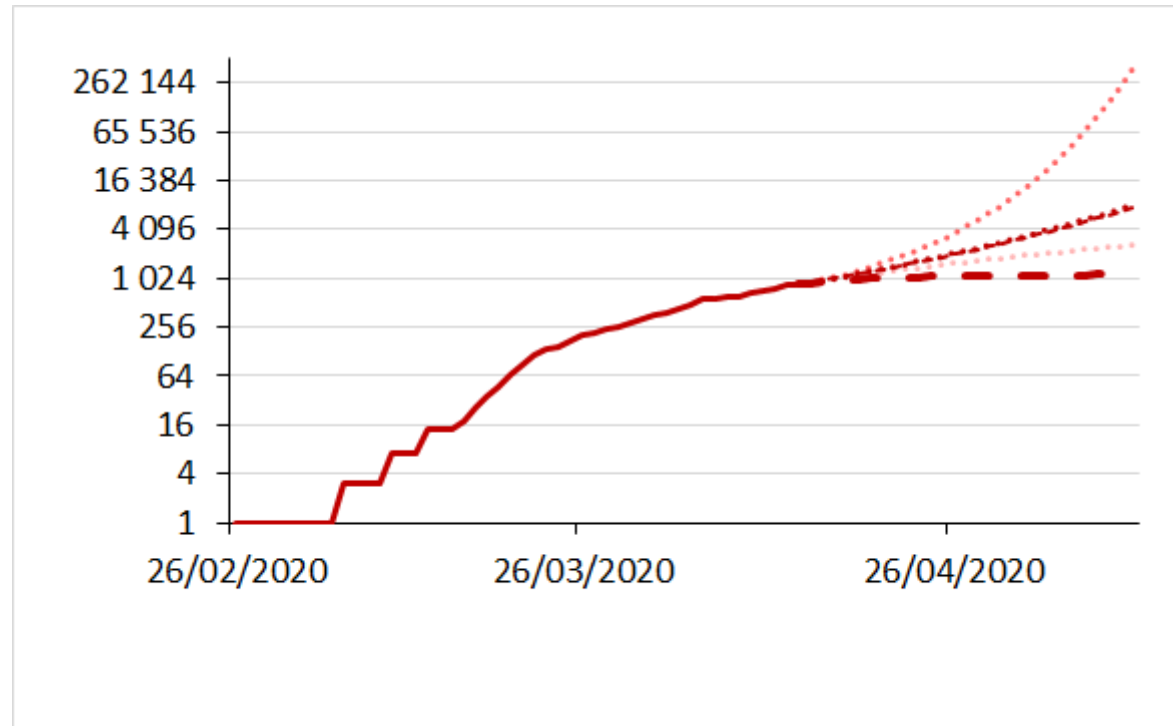


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Macedonia

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

Cumulated

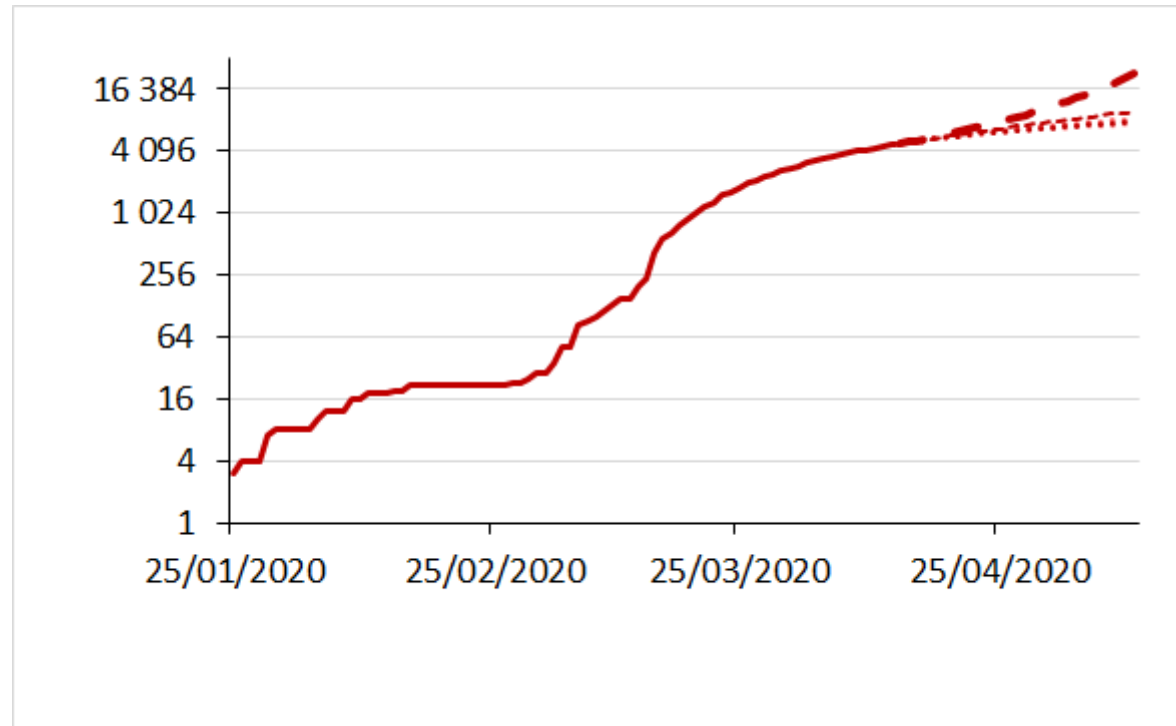


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Malaysia

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

Cumulated

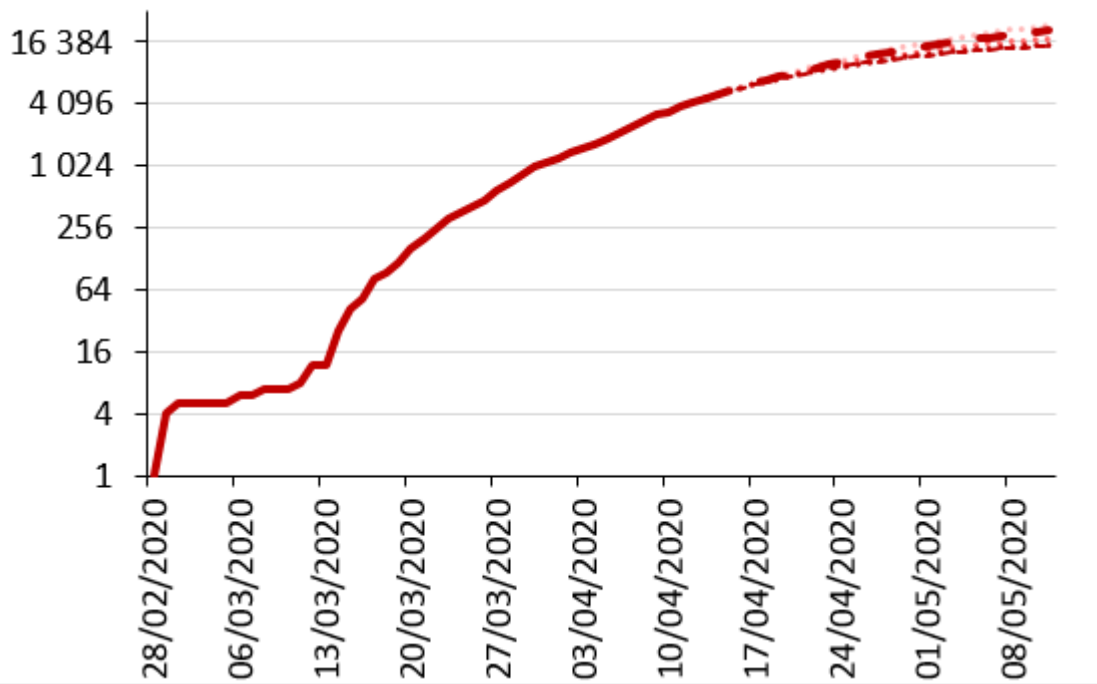


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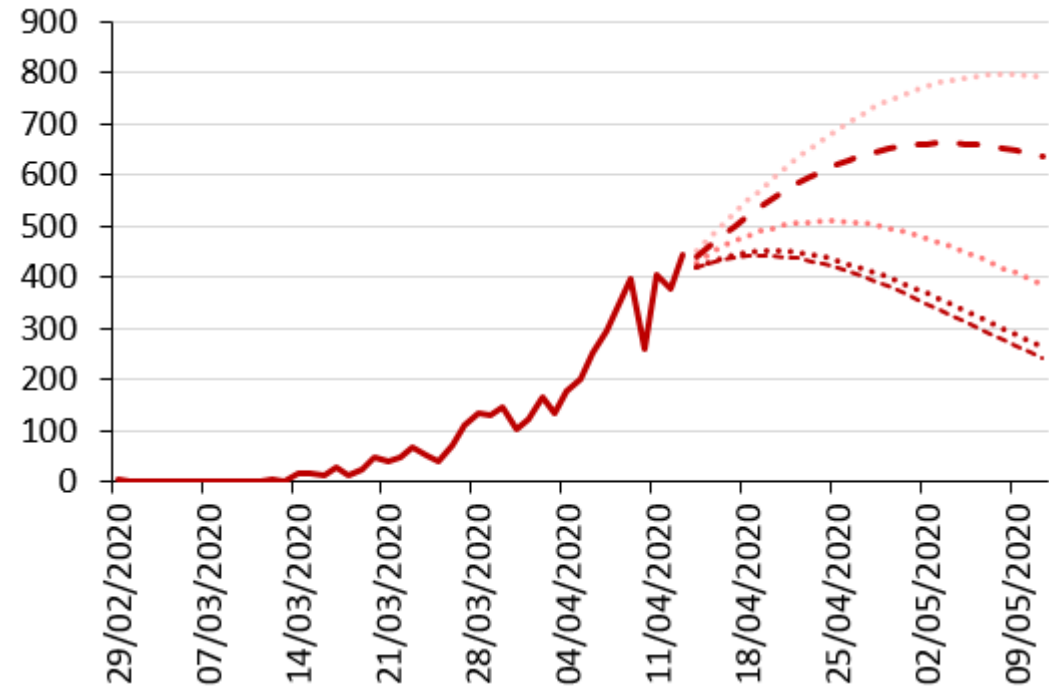
Mexico

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

Cumulated



Daily

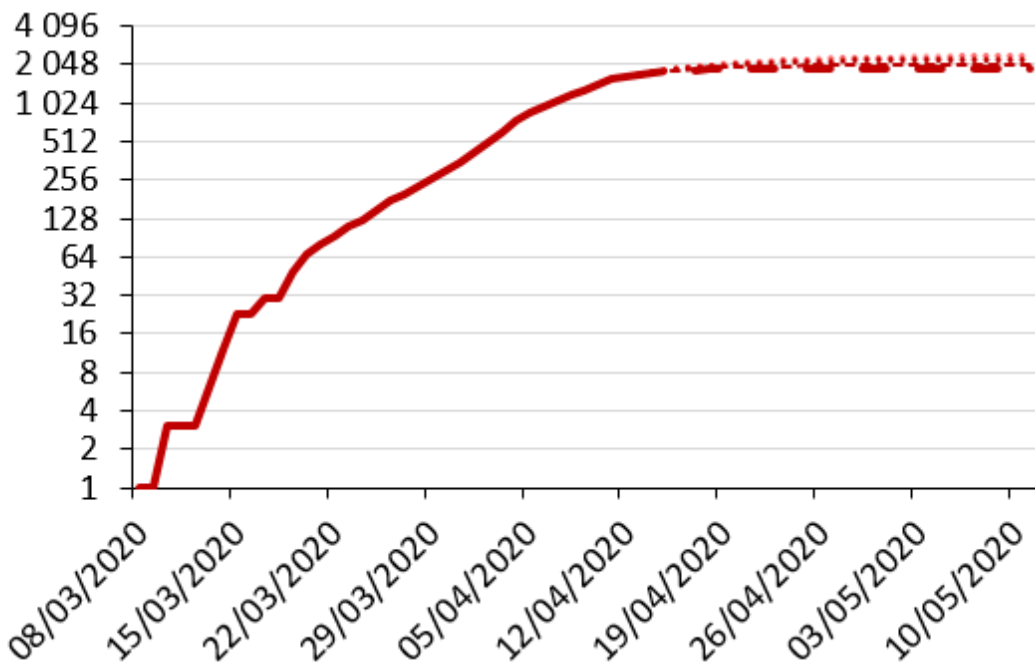


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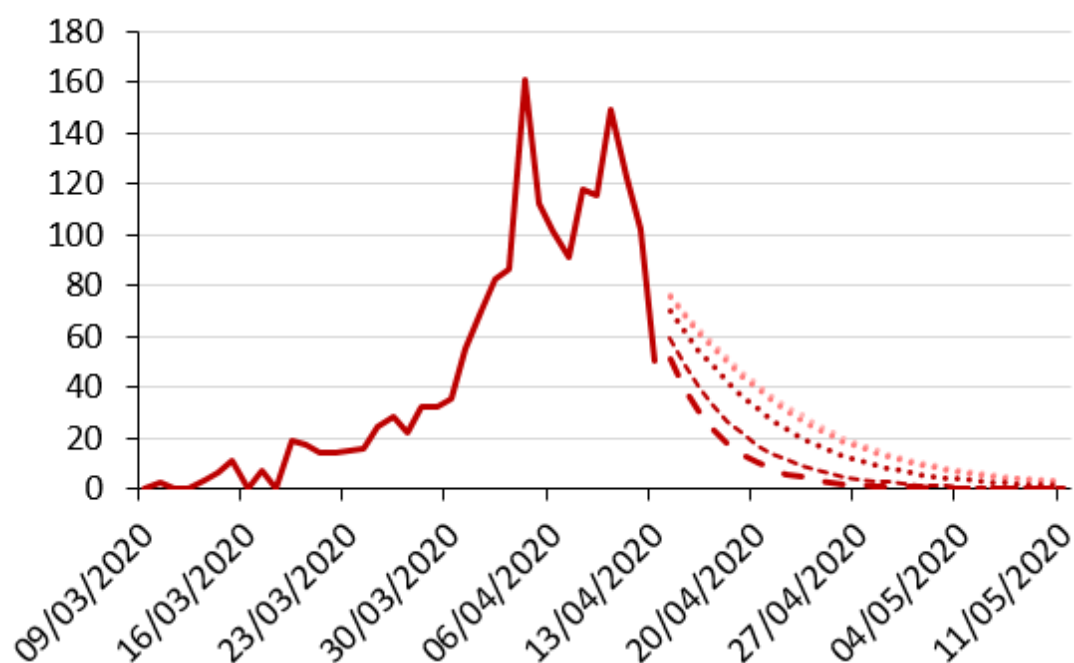
Moldova

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

Cumulated



Daily

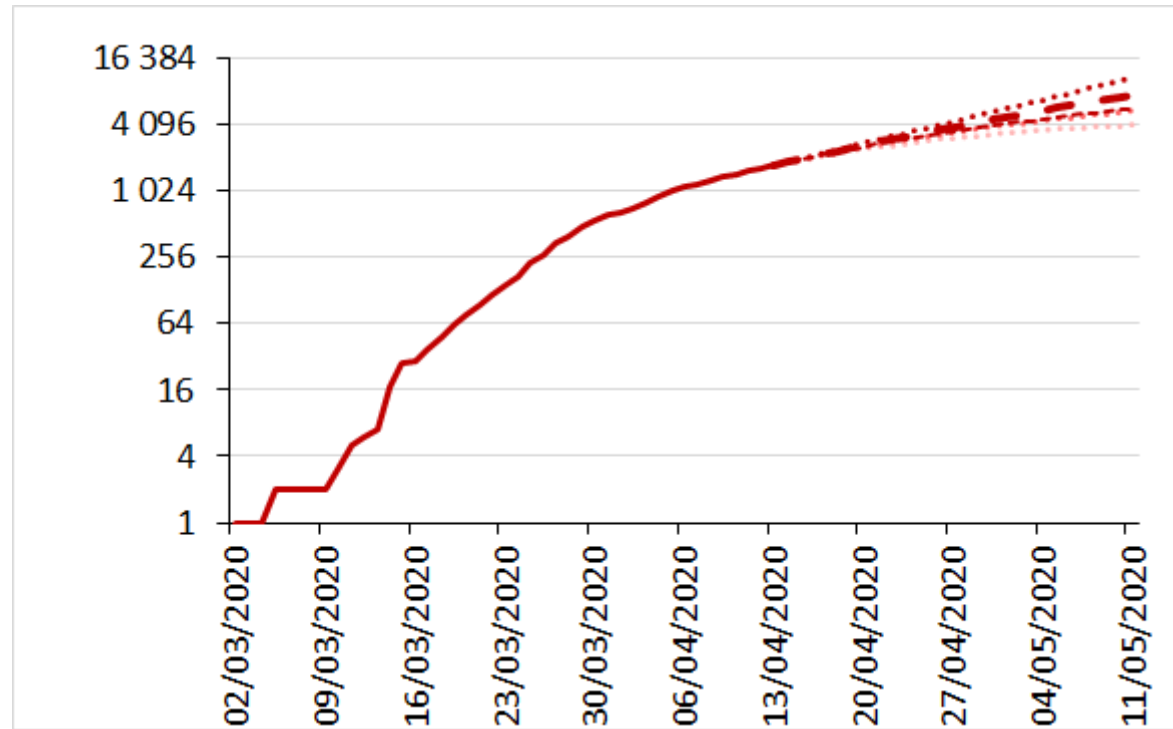


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Morocco

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

Cumulated

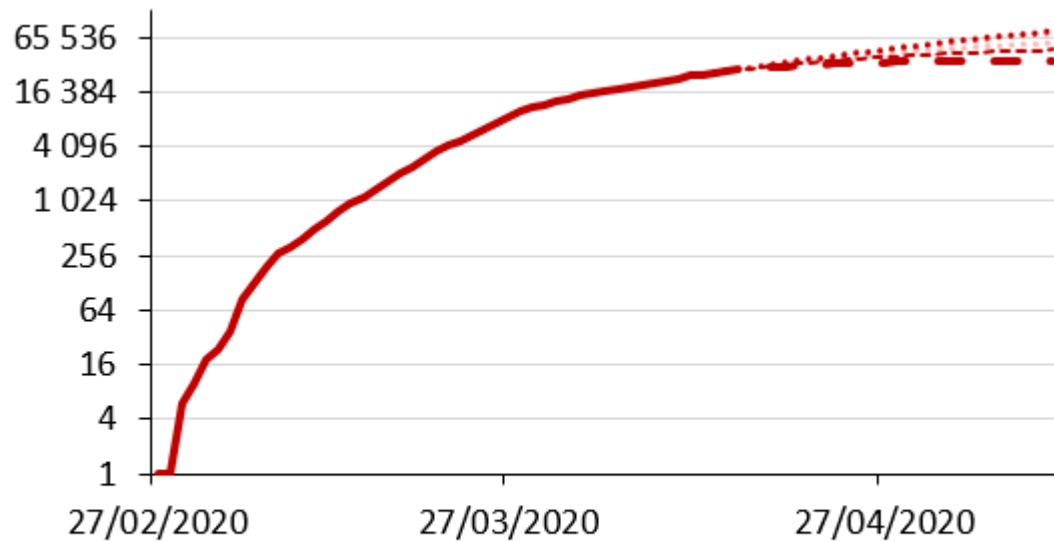


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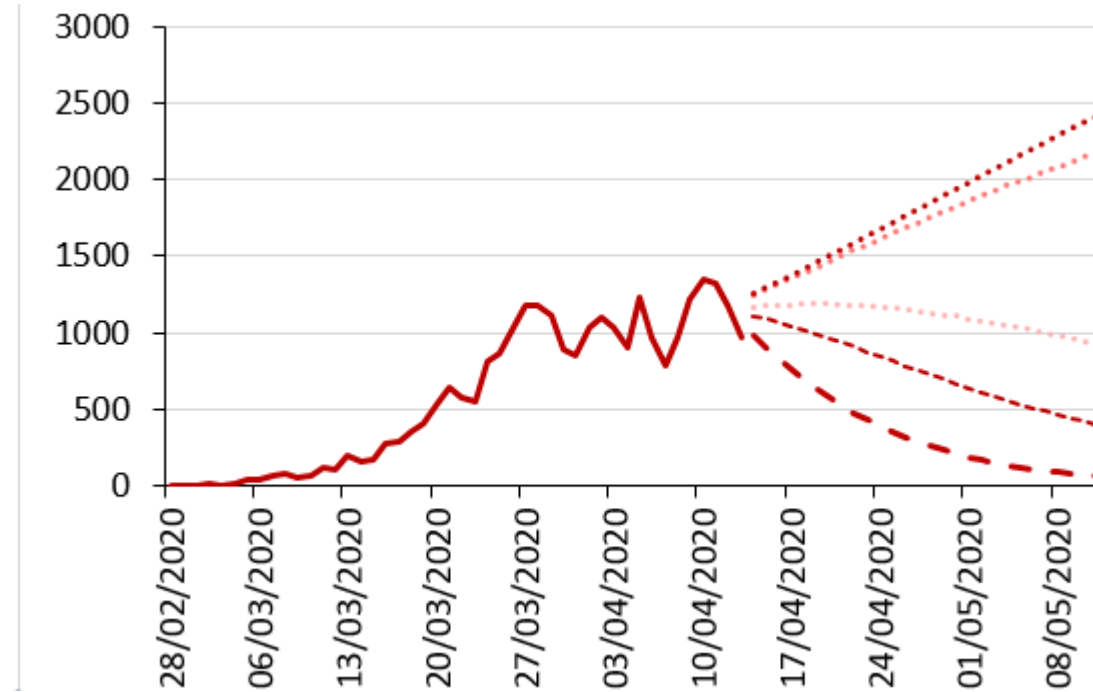
Netherlands

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

Cumulated



Daily

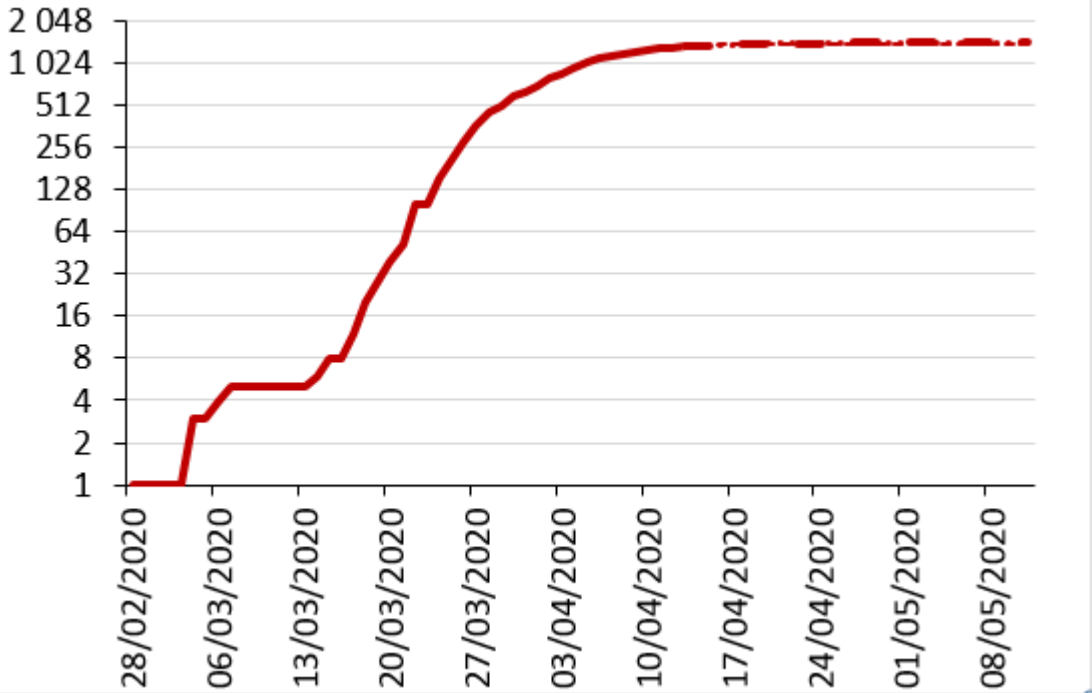


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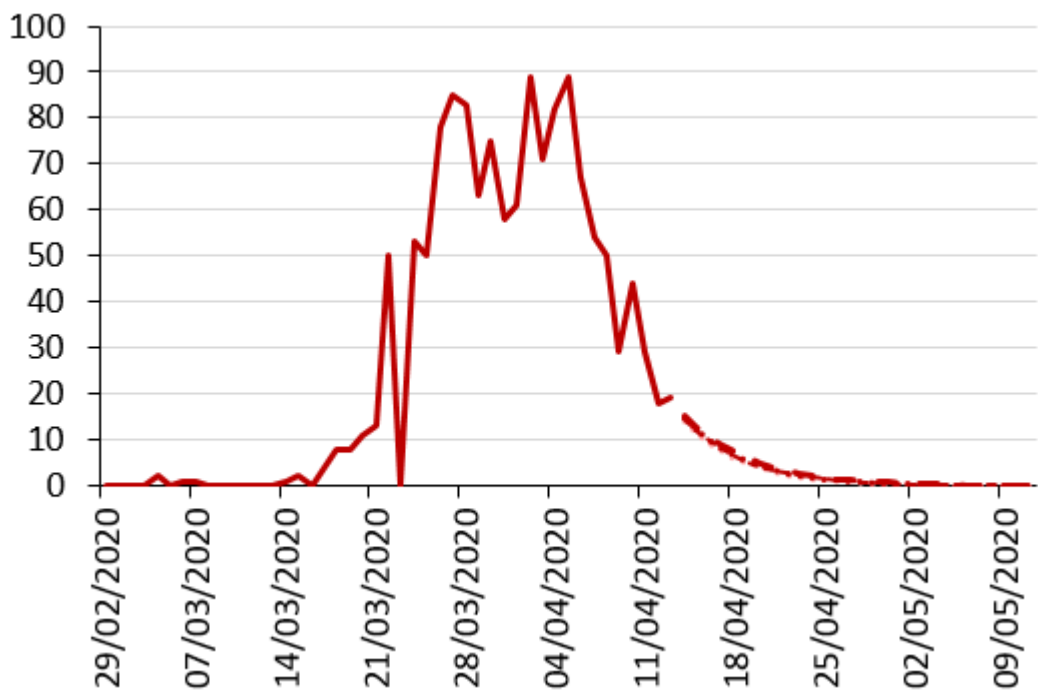
New Zealand

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

Cumulated



Daily

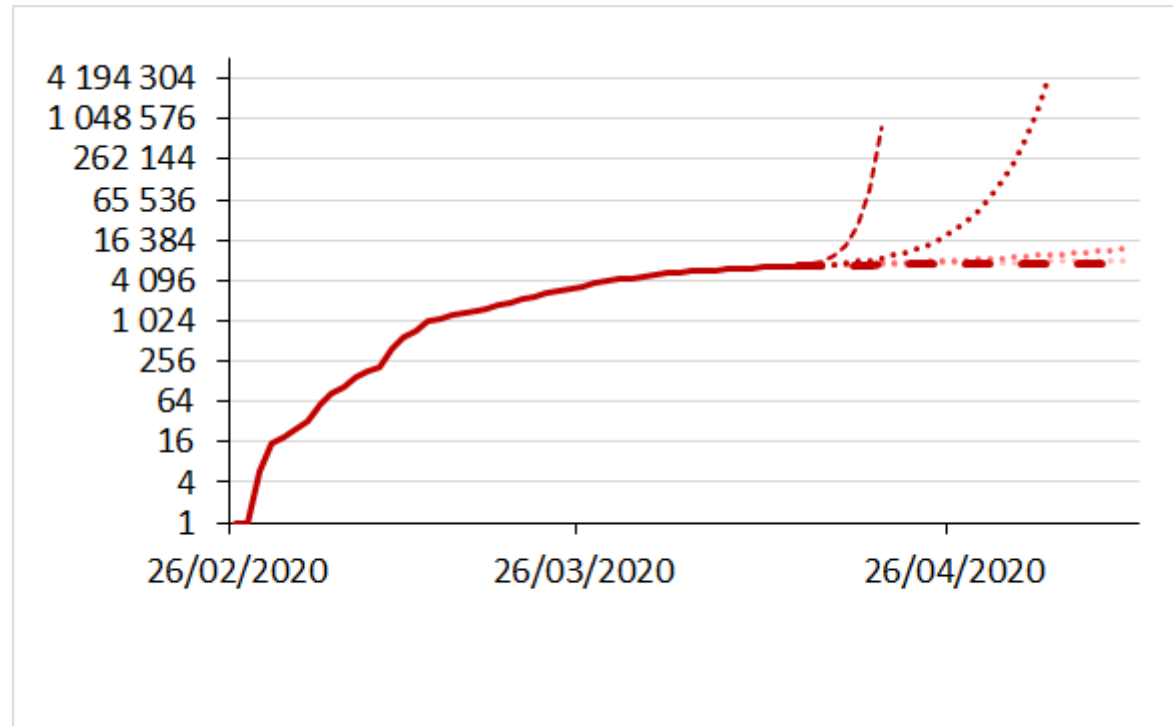


Data: The Johns Hopkins University, Politolog.com

Norway

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

Cumulated

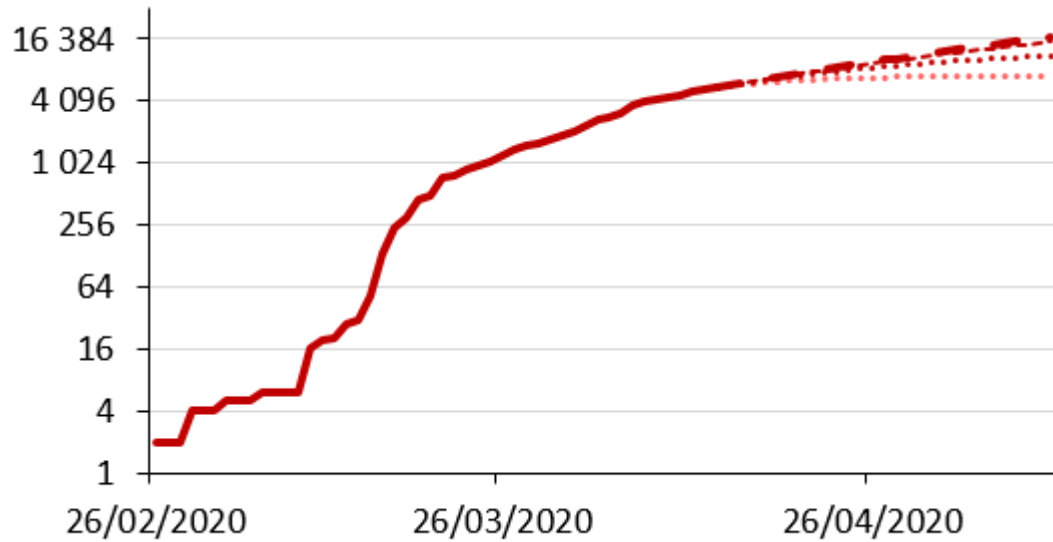


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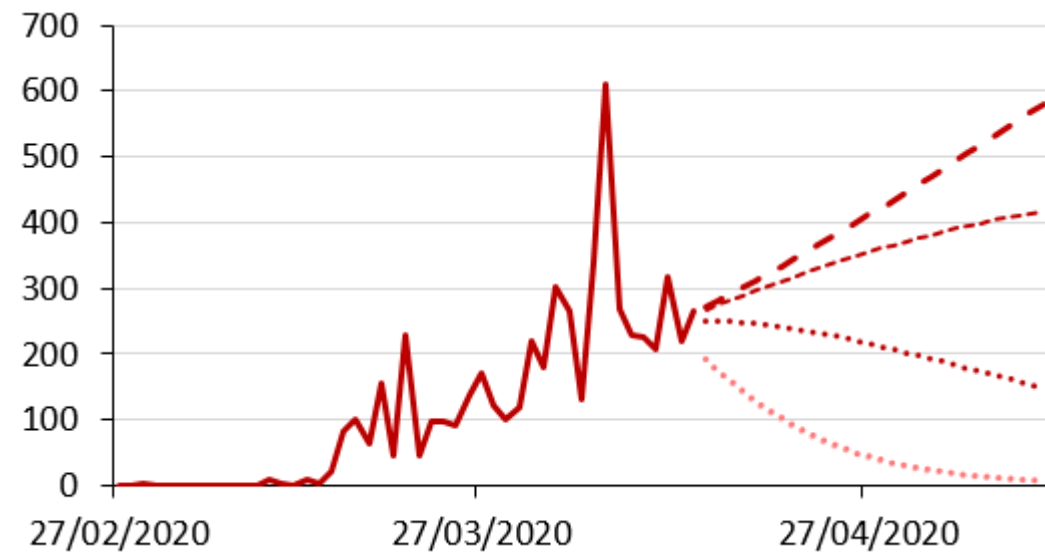
Pakistan

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

Cumulated



Daily

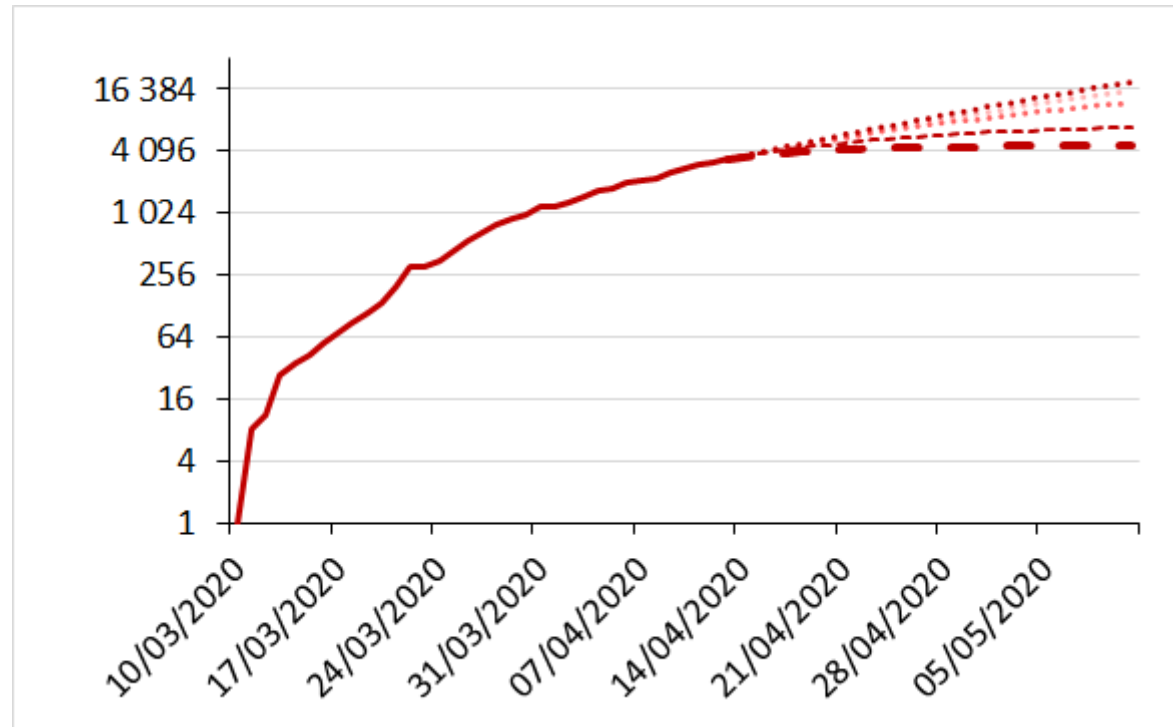


Data: The Johns Hopkins University, Politolog.com

Panama

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

Cumulated

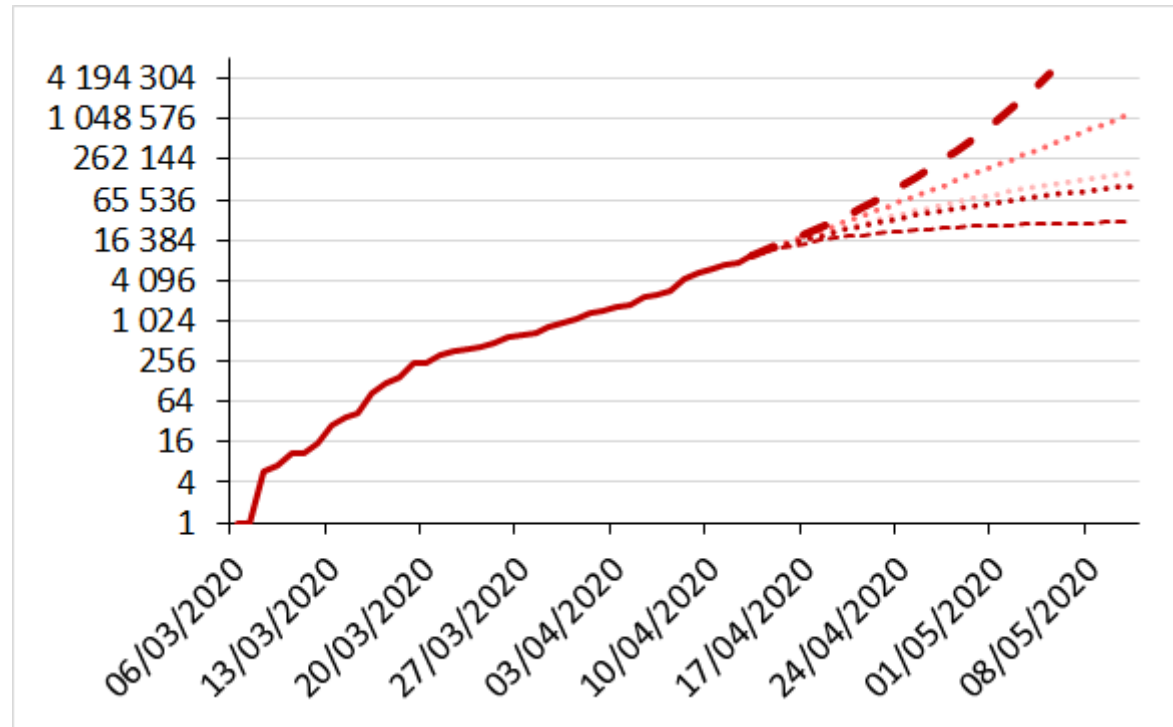


Data: The Johns Hopkins University, Politolog.com

Peru

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

Cumulated

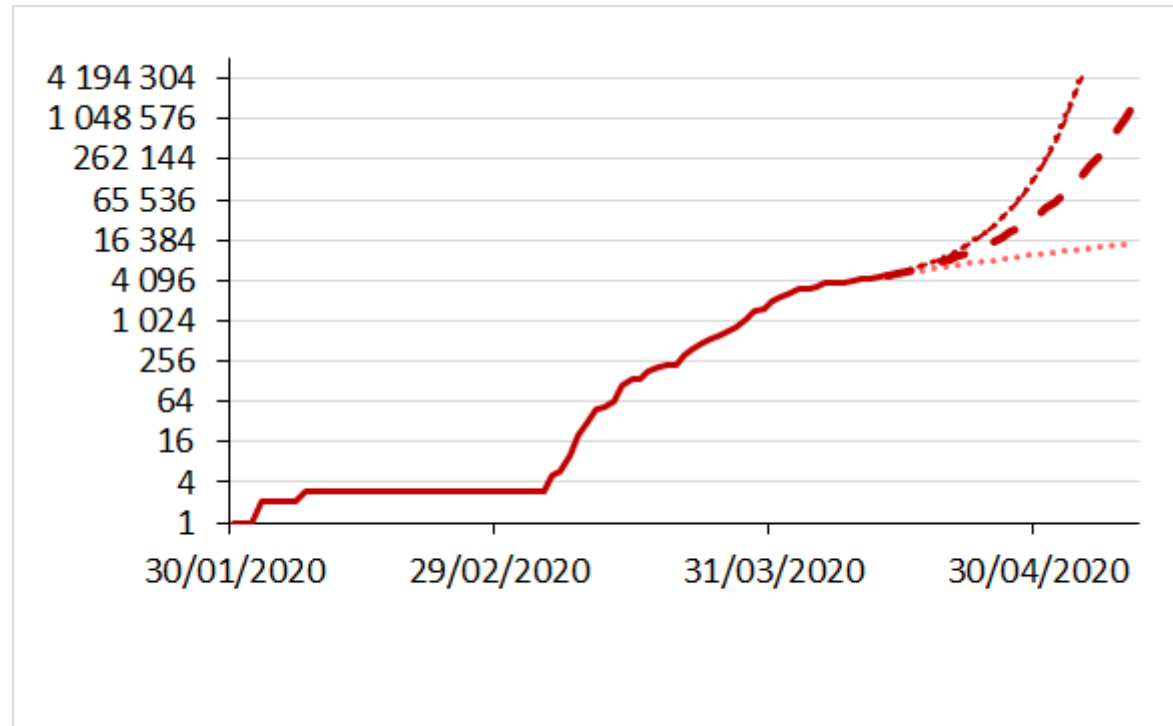


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Philippines

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

Cumulated

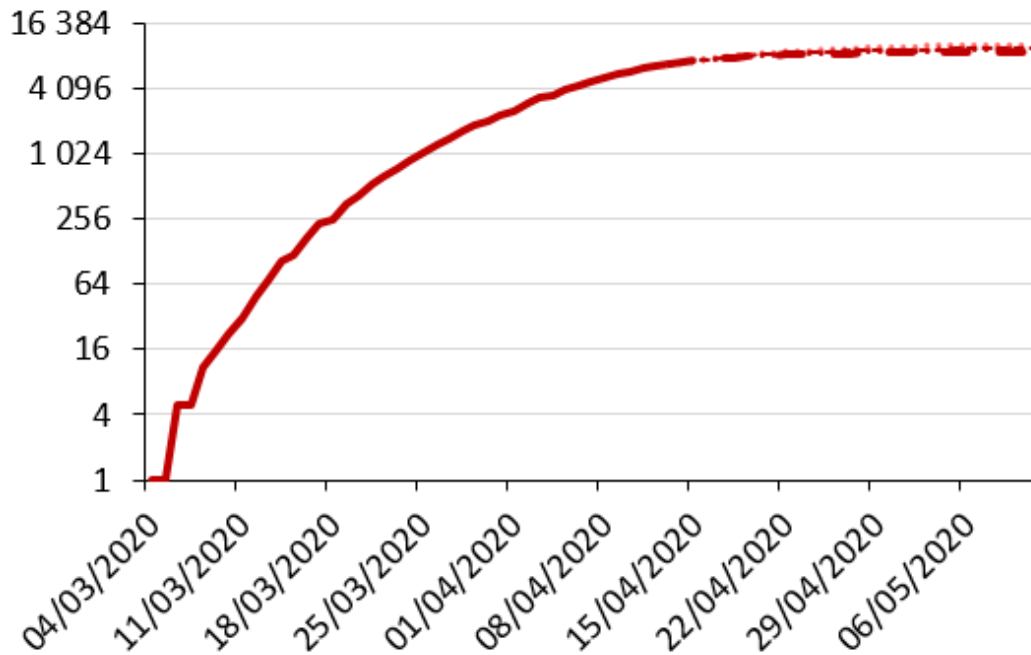


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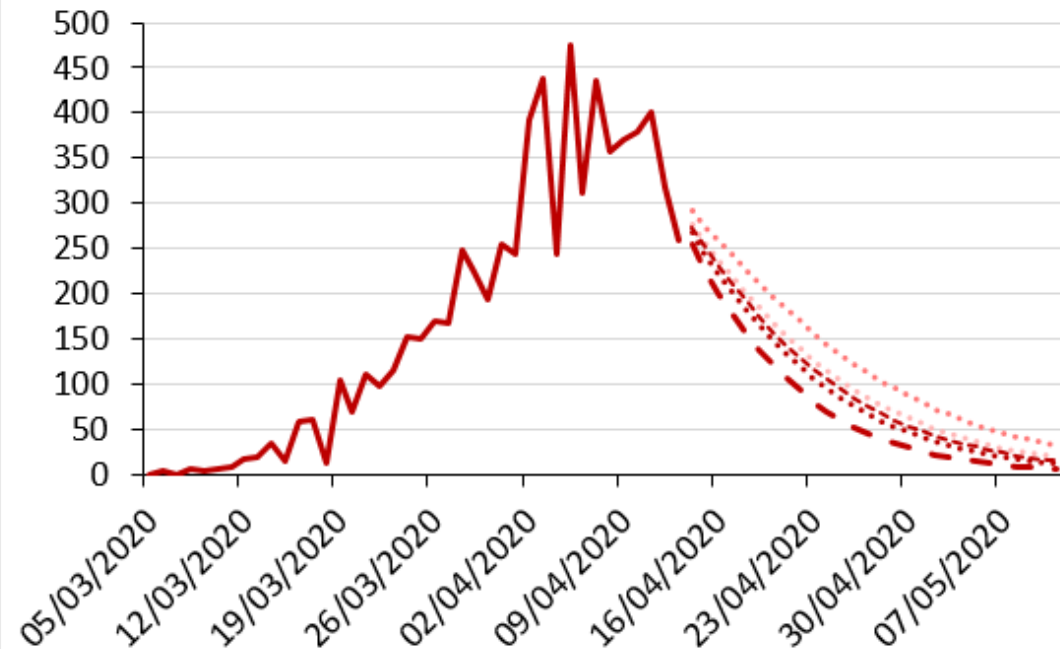
Poland

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

Cumulated



Daily

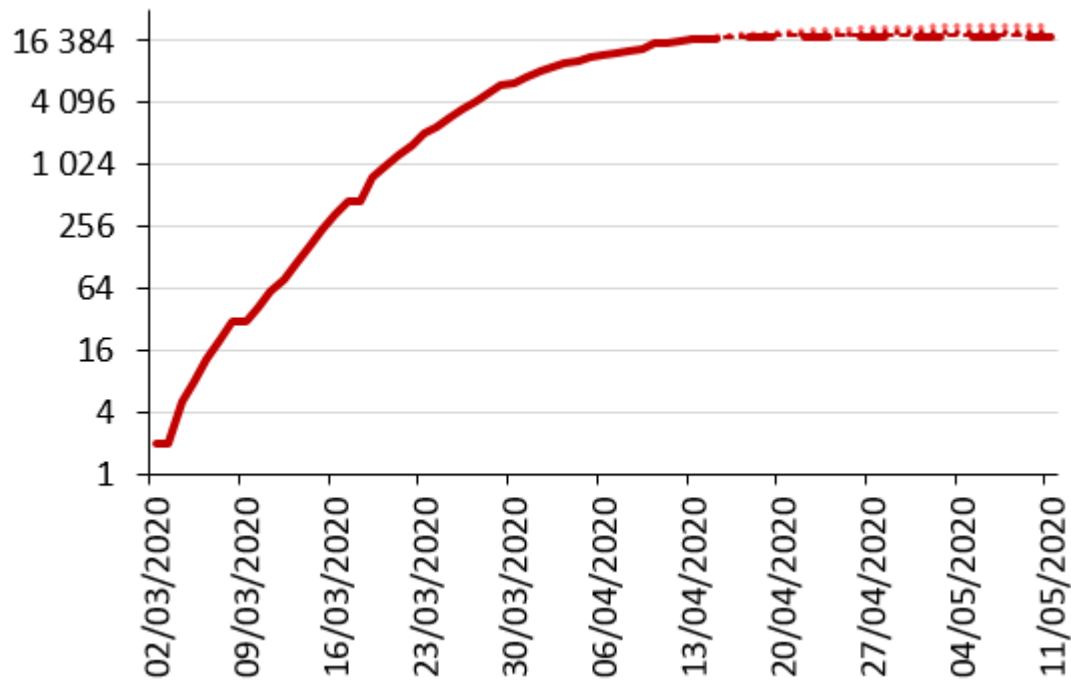


Data: The Johns Hopkins University, Politolog.com

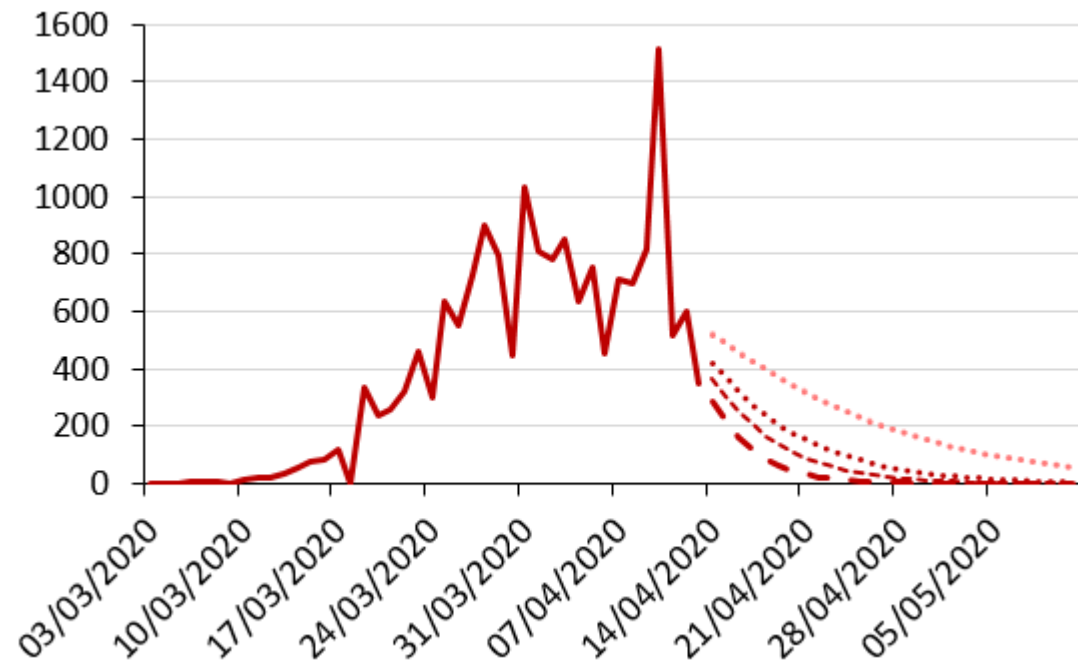
Portugal

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

Cumulated



Daily

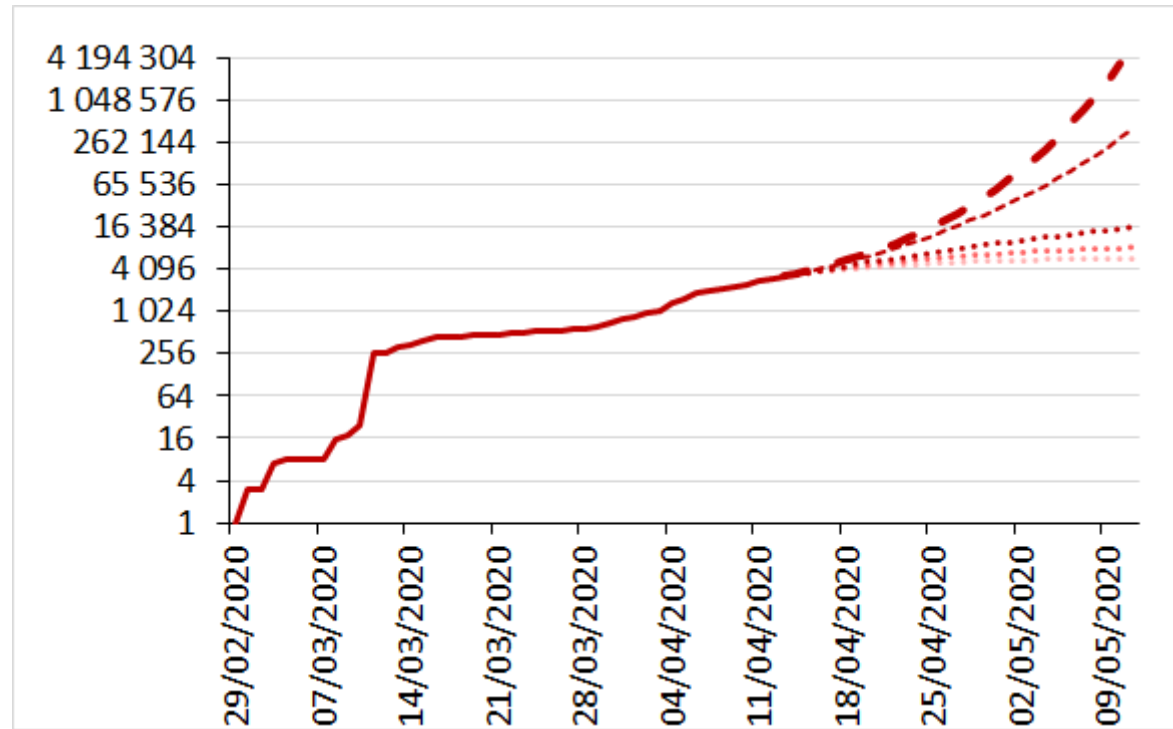


Data: The Johns Hopkins University, Politolog.com

Qatar

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

Cumulated

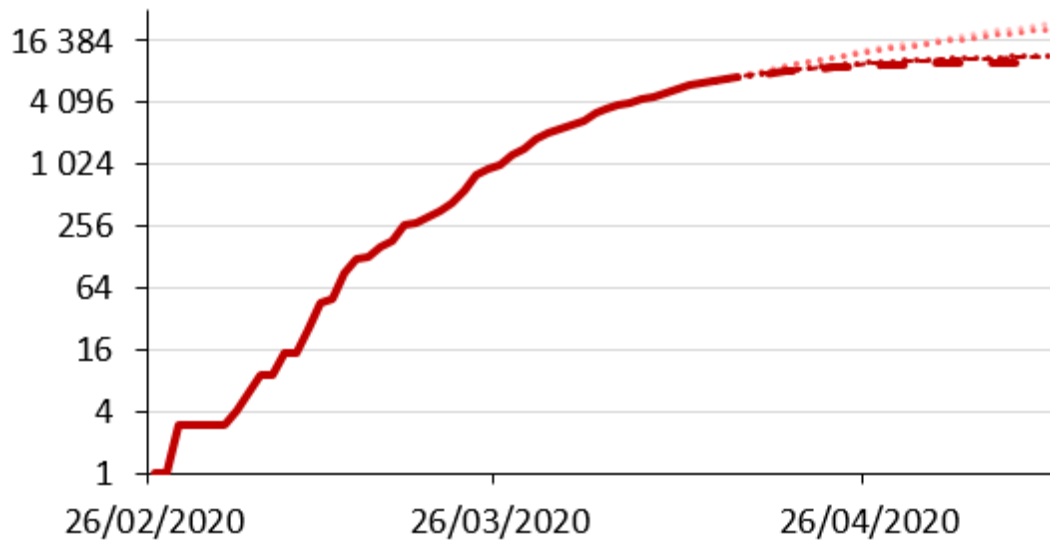


Data: The Johns Hopkins University, Politolog.com

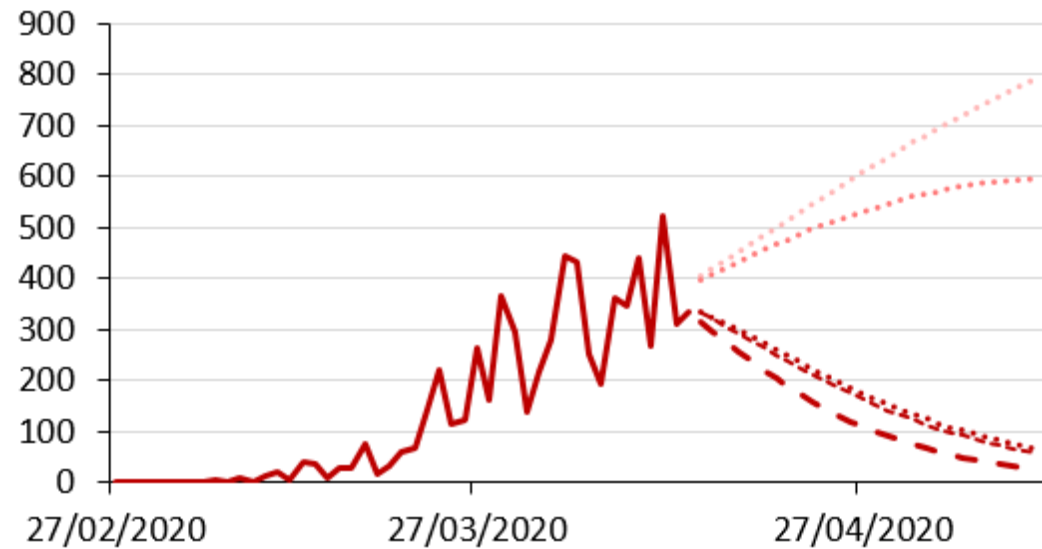
Romania

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

Cumulated



Daily

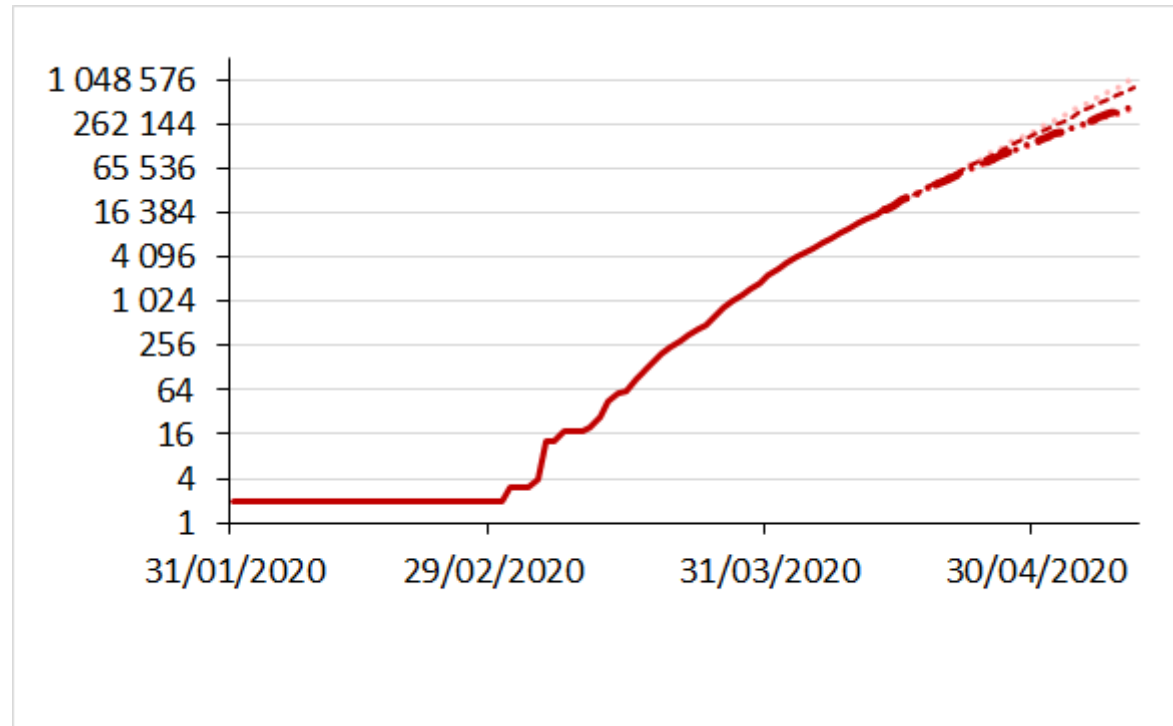


Data: The Johns Hopkins University, Politolog.com

Russia

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

Cumulated

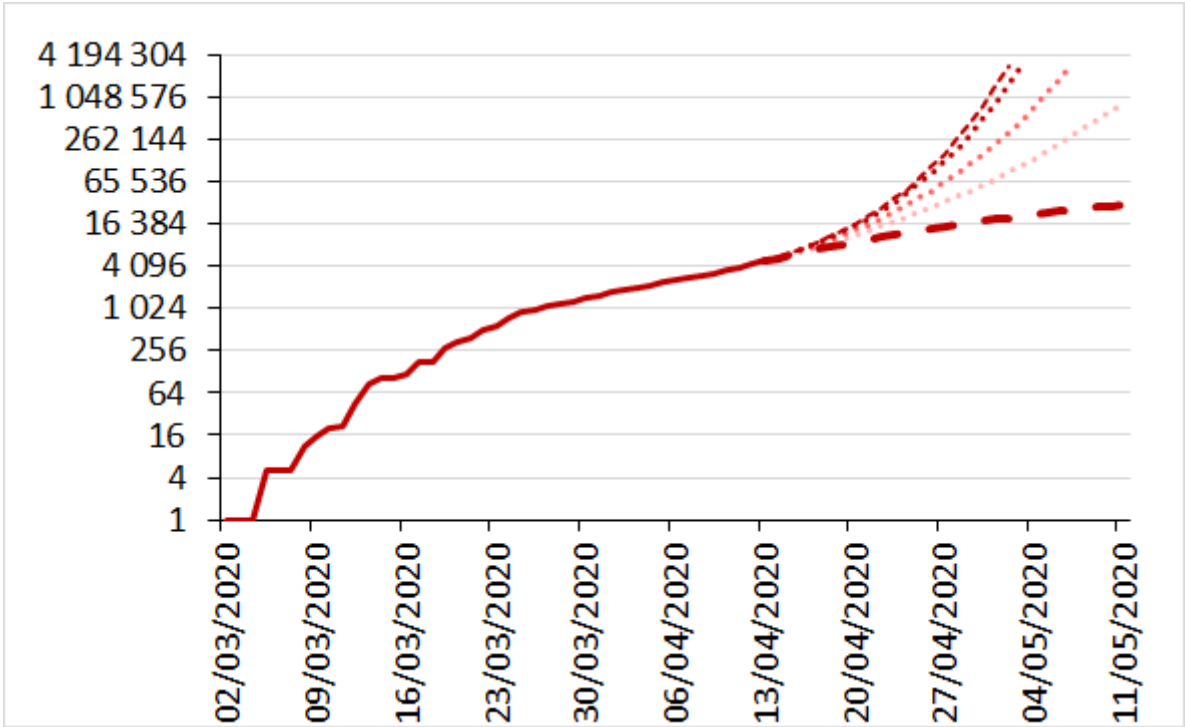


Data: The Johns Hopkins University, Politolog.com

Saudi Arabia

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

Cumulated

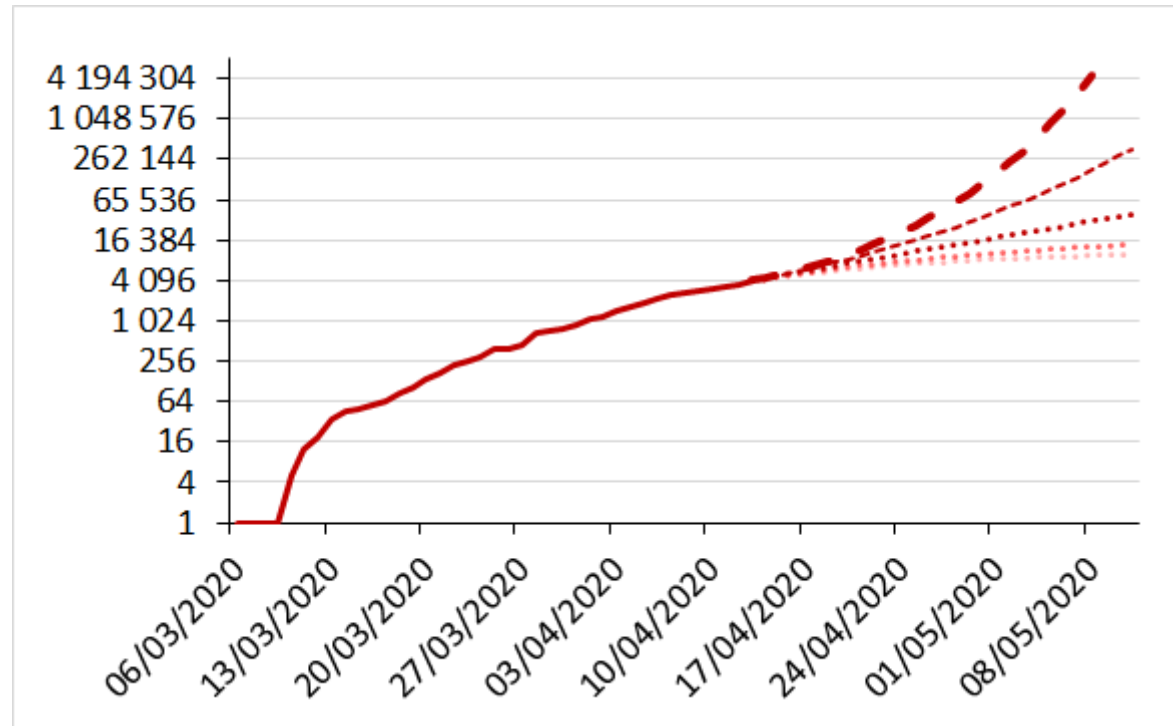


Data: The Johns Hopkins University, Politolog.com

Serbia

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

Cumulated

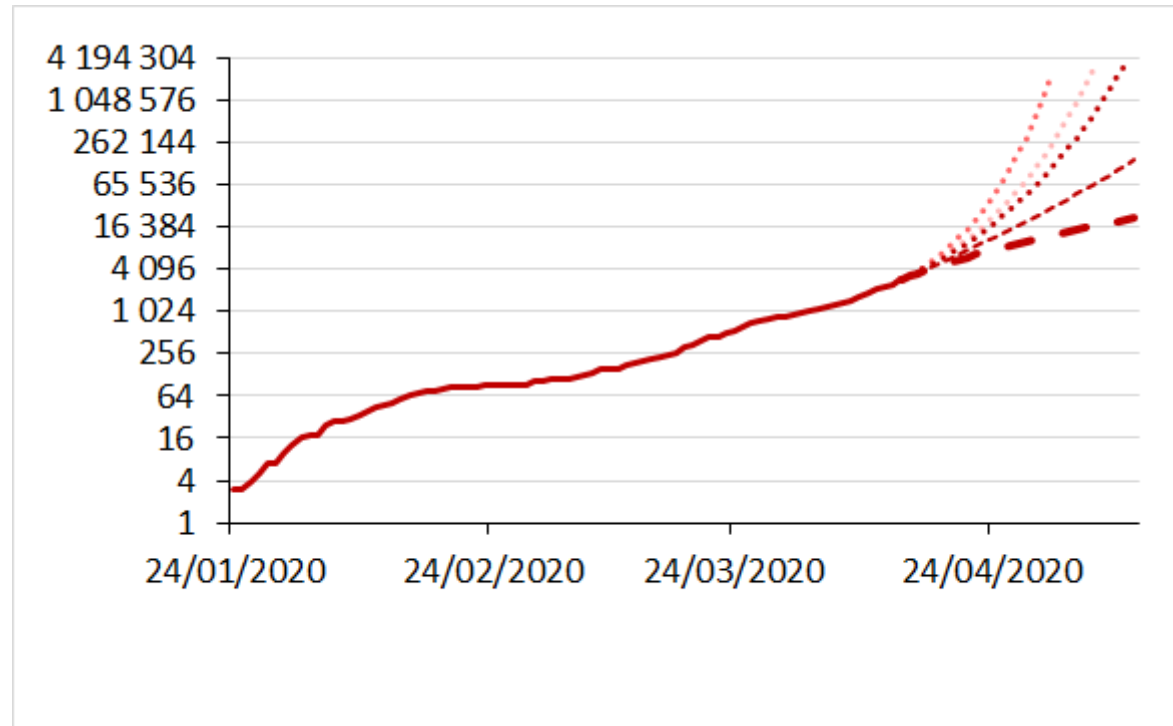


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Singapore

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

Cumulated

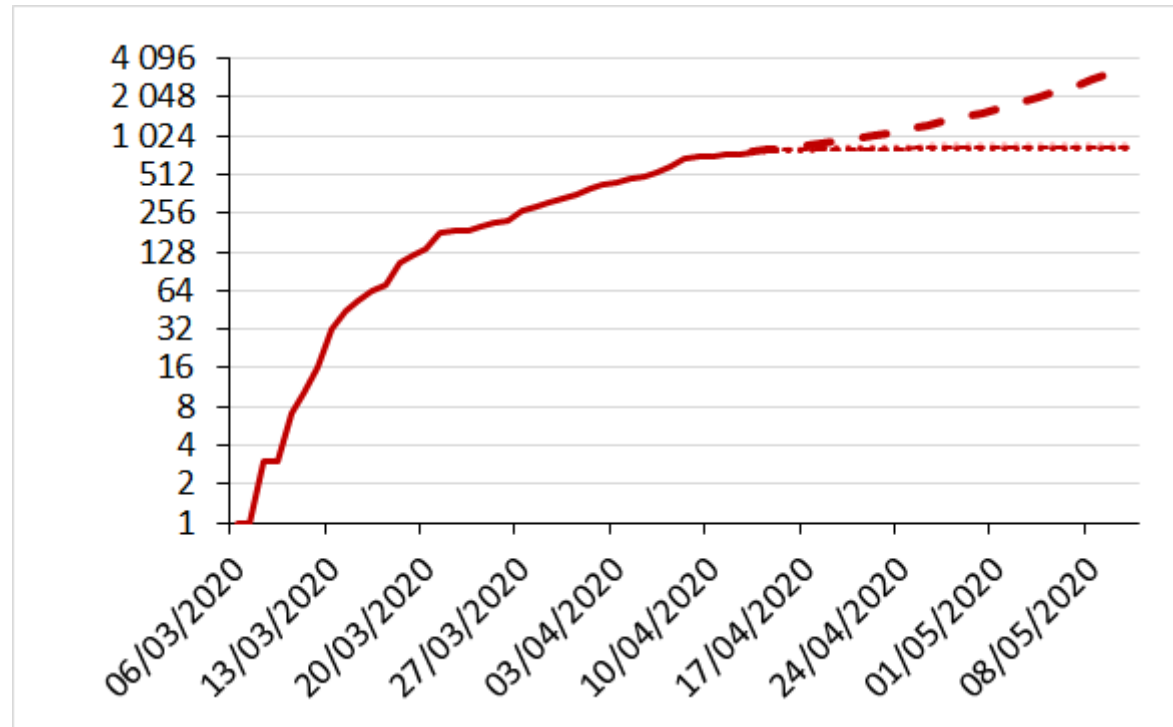


Data: The Johns Hopkins University, Politolog.com

Slovakia

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

Cumulated

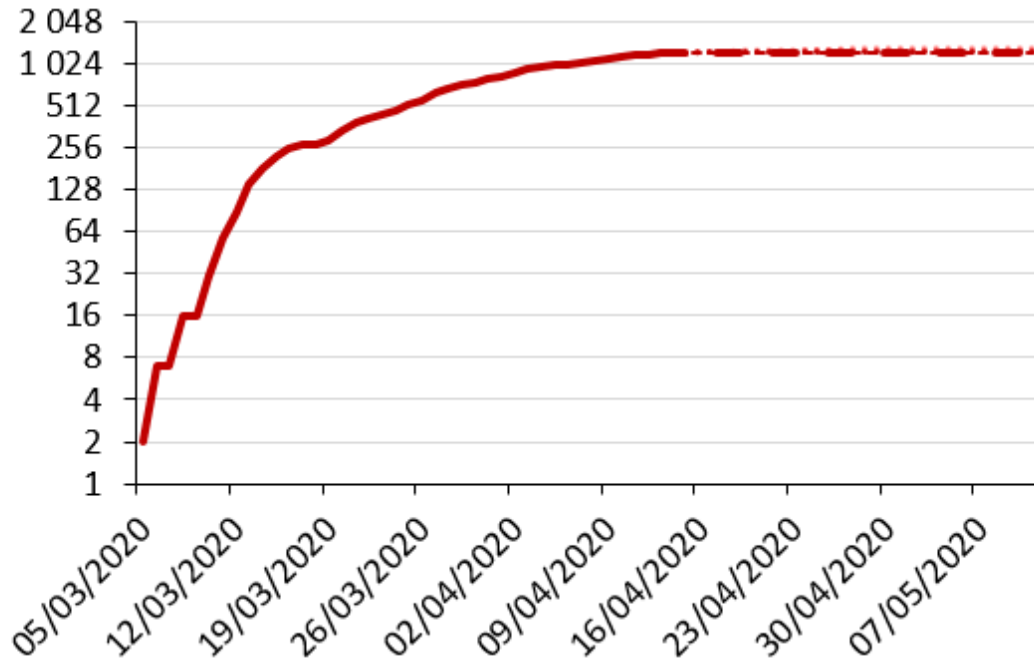


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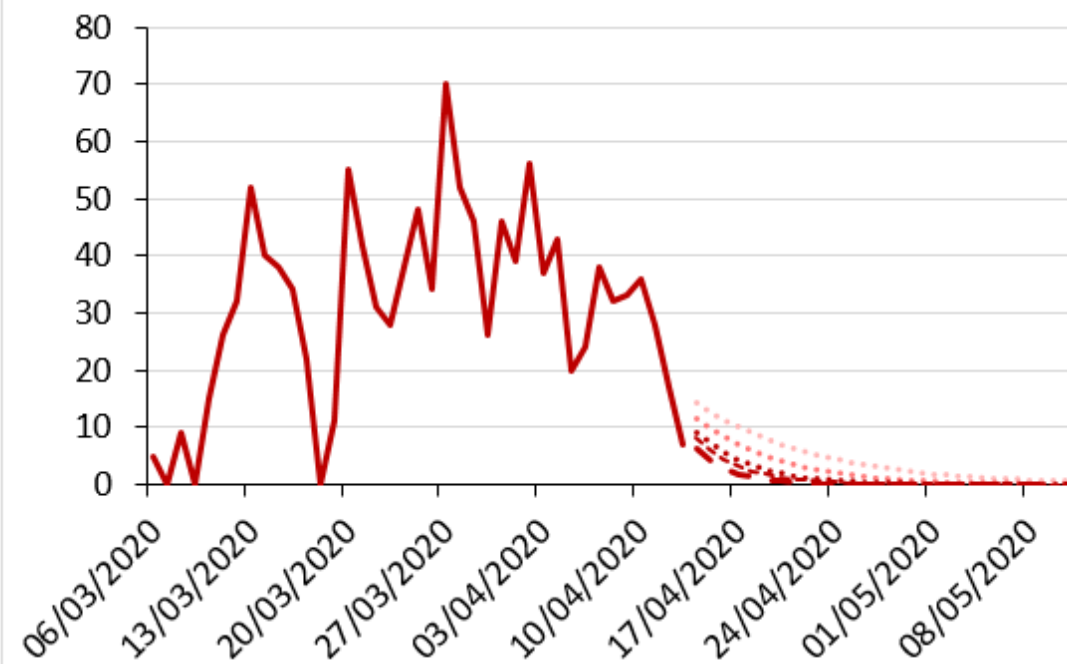
Slovenia

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

Cumulated



Daily

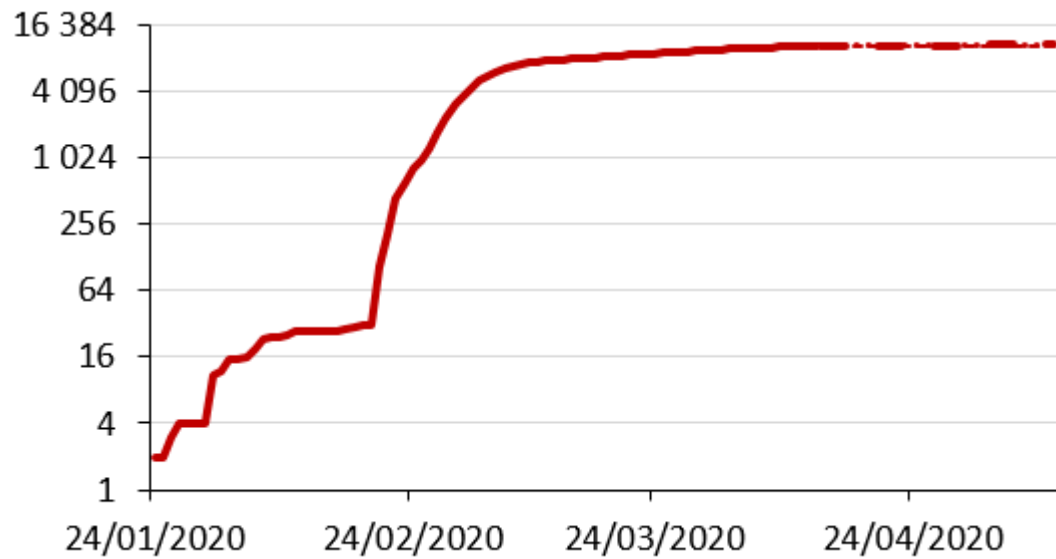


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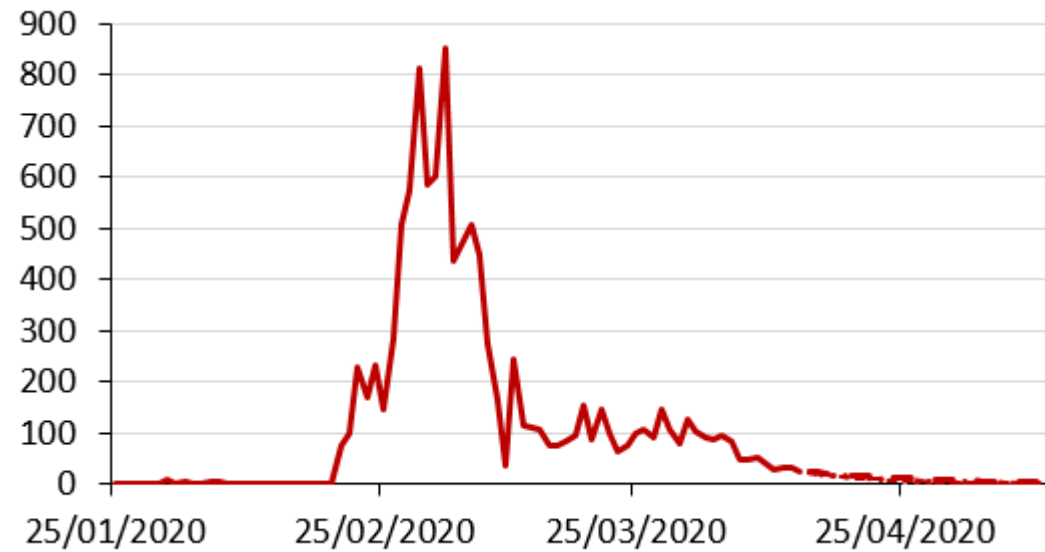
South Korea

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

Cumulated



Daily

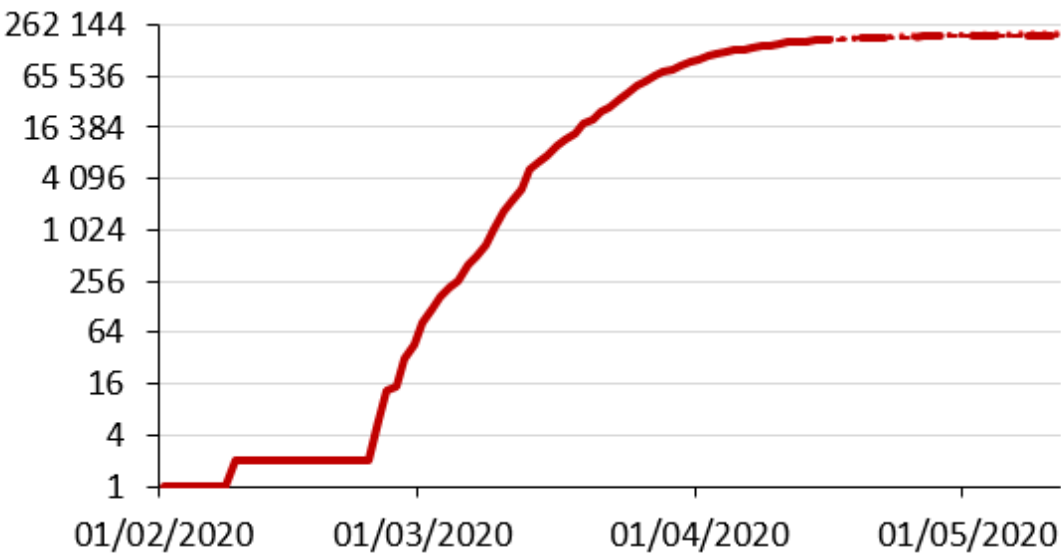


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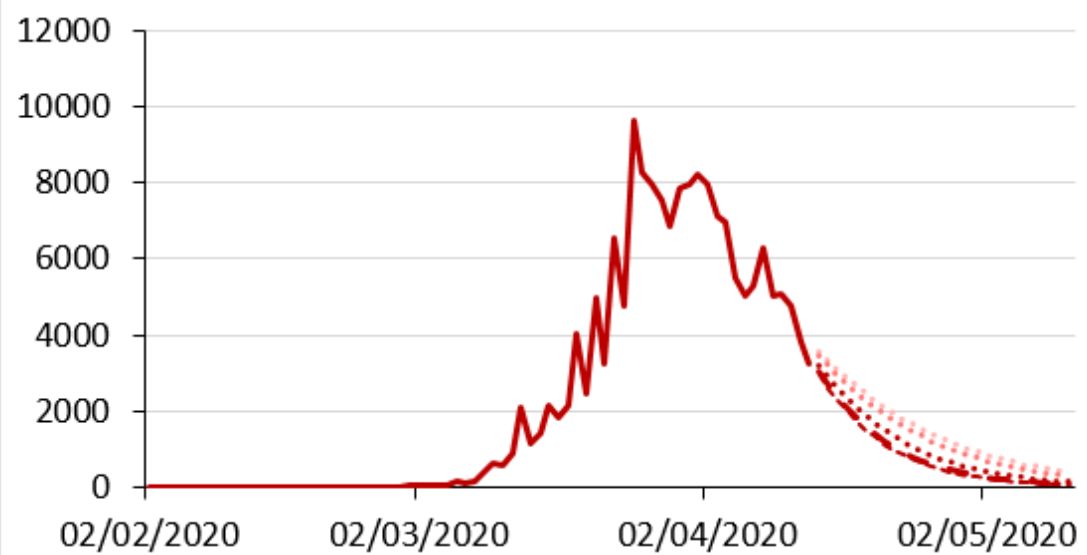
Spain

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

Cumulated



Daily

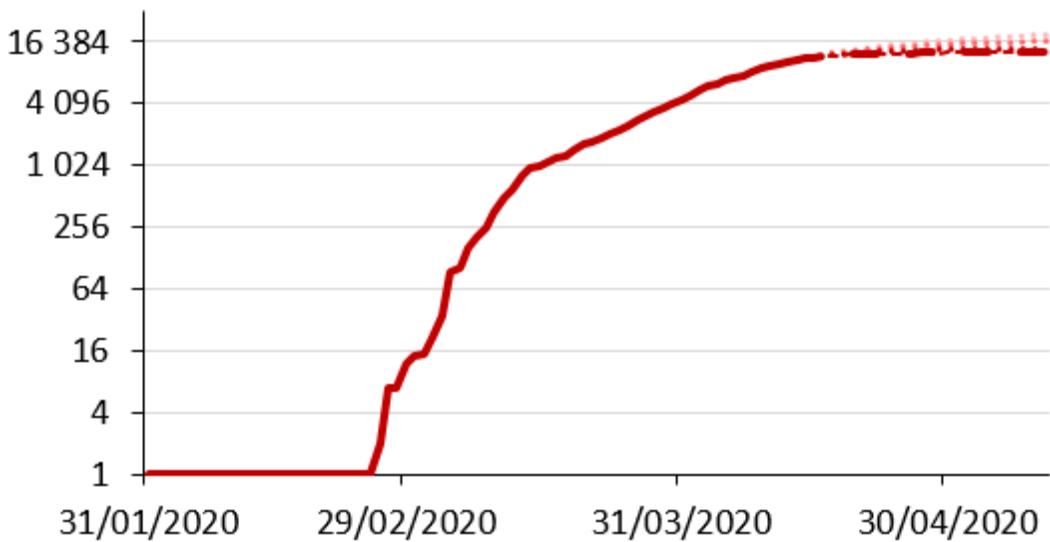


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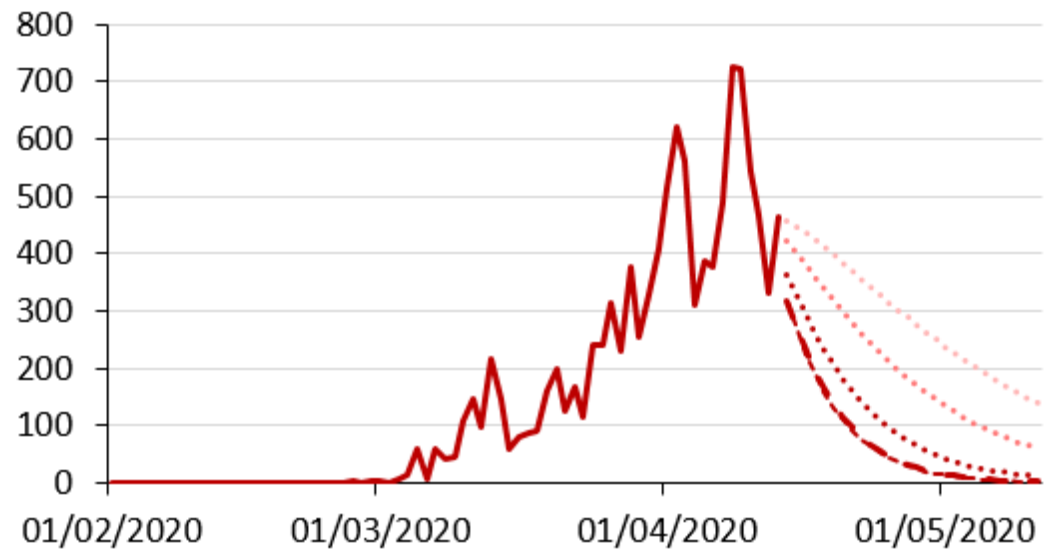
Sweden

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

Cumulated



Daily

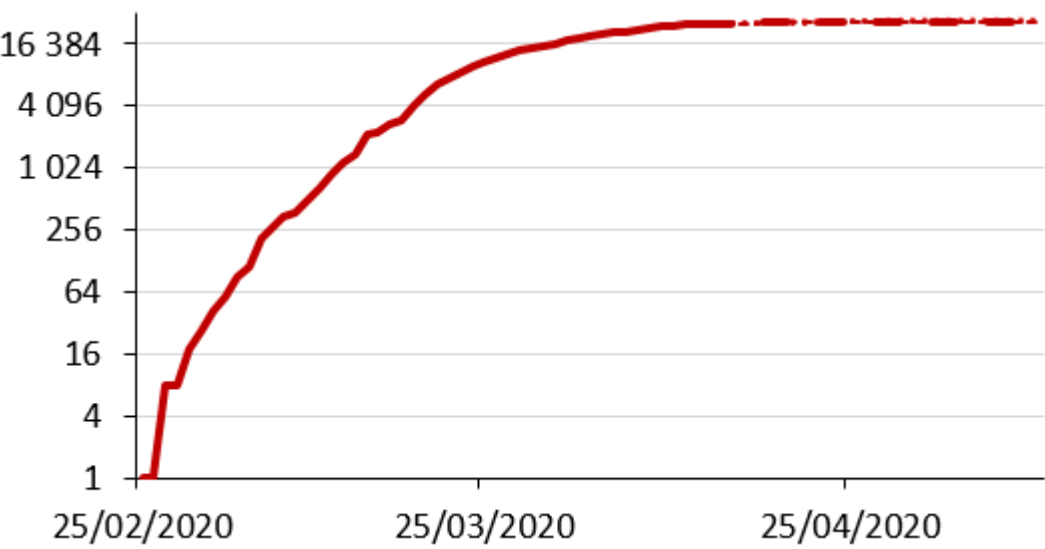


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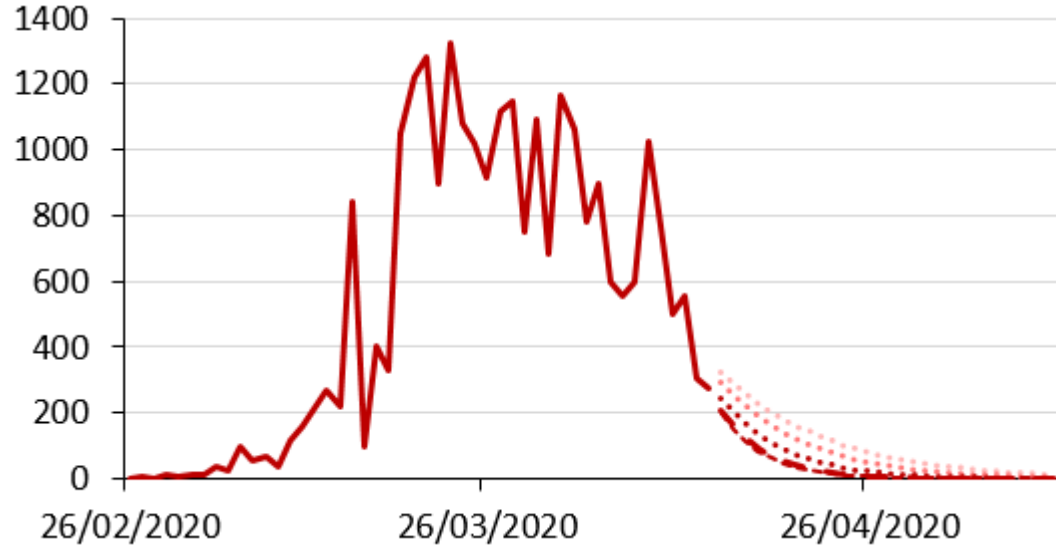
Switzerland

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

Cumulated



Daily

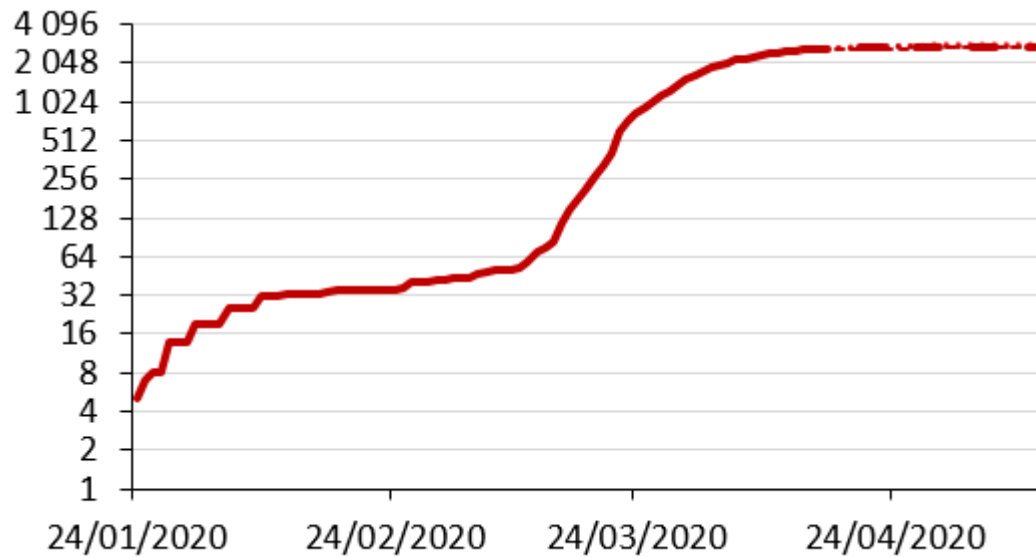


Data: The Johns Hopkins University, Politolog.com

Thailand

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

Cumulated



Daily

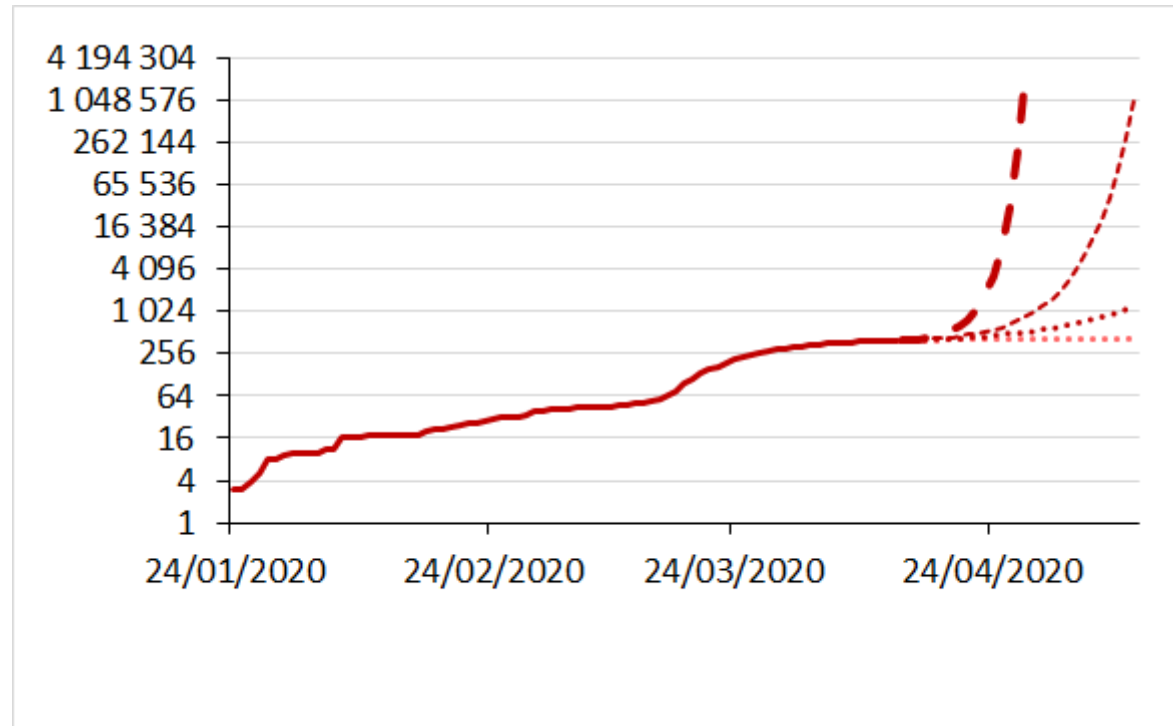


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Taiwan

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

Cumulated

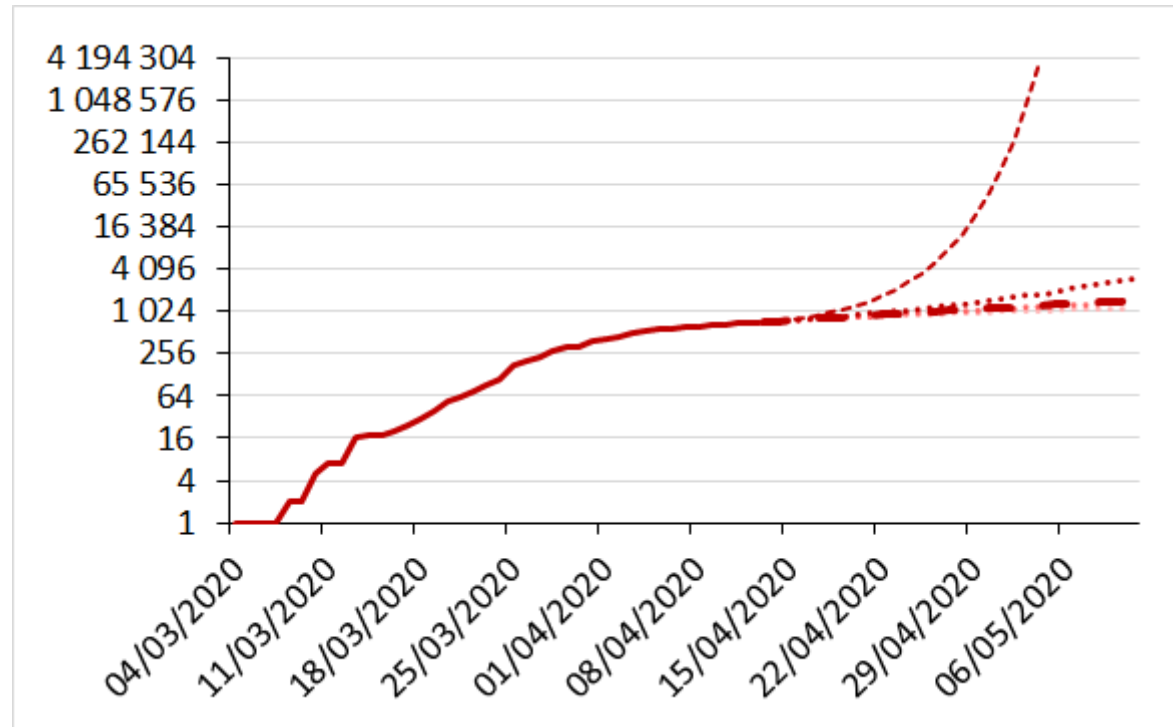


Data: The Johns Hopkins University, Politolog.com

Tunisia

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

Cumulated

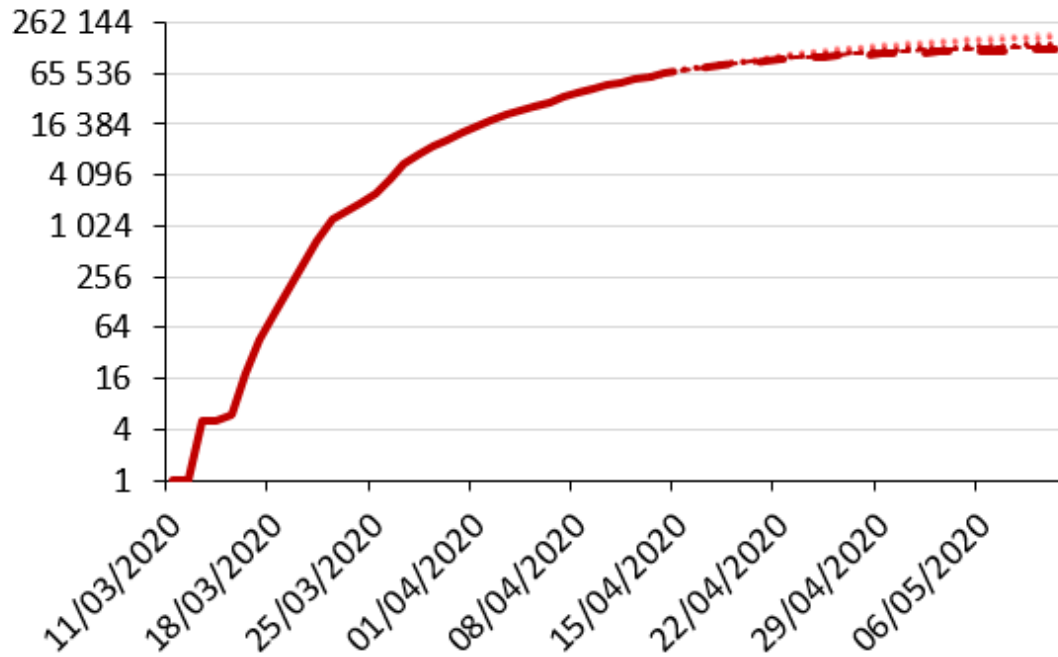


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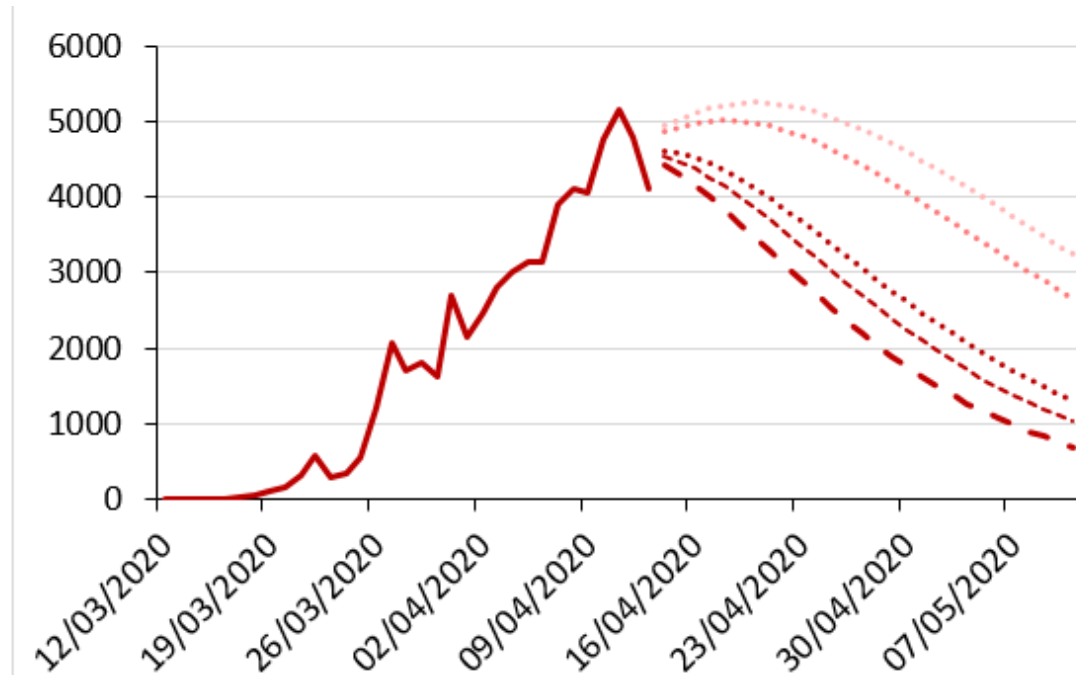
Turkey

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

Cumulated



Daily

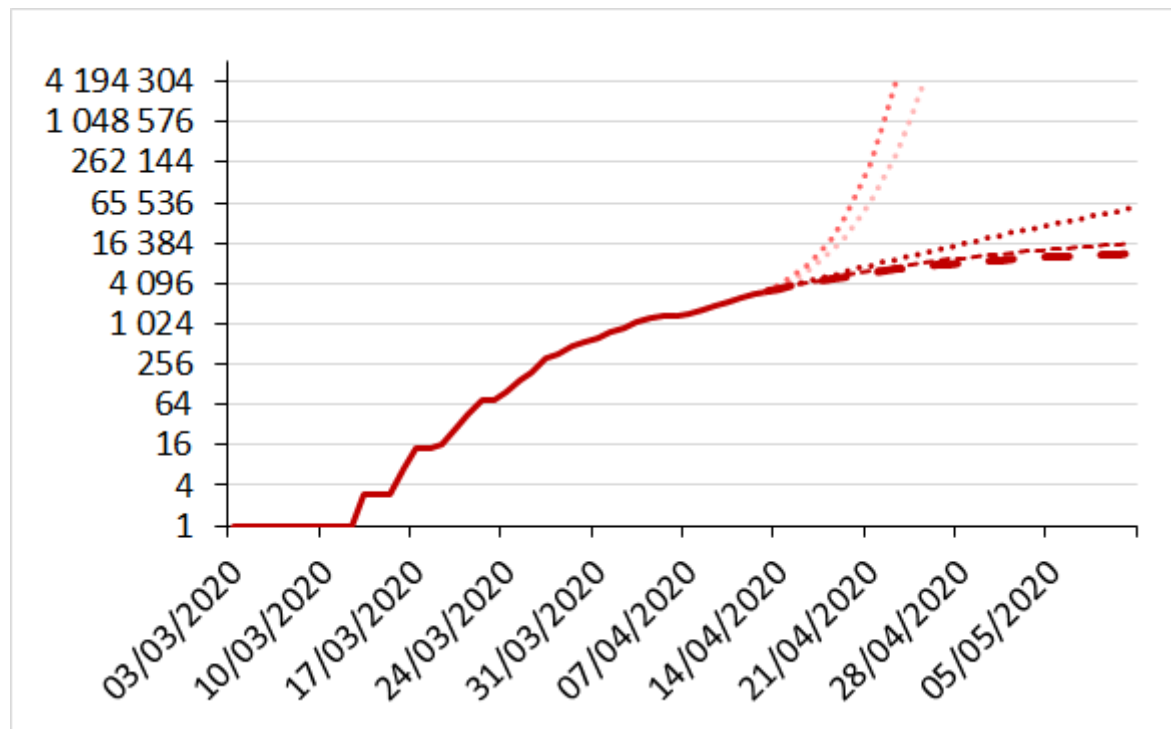


Data: The Johns Hopkins University, Politolog.com

Ukraine

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

Cumulated

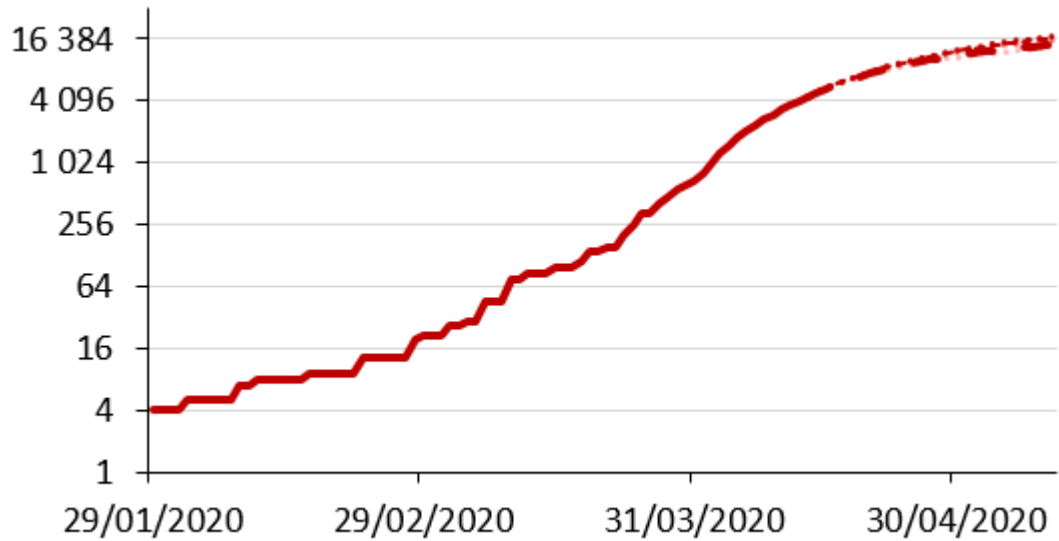


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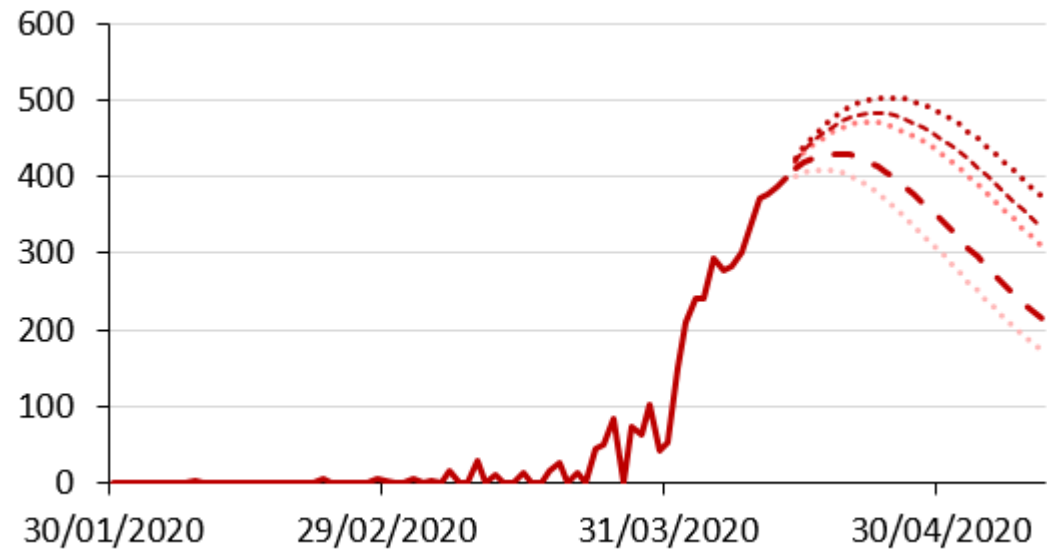
United Arab Emirates

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

Cumulated



Daily

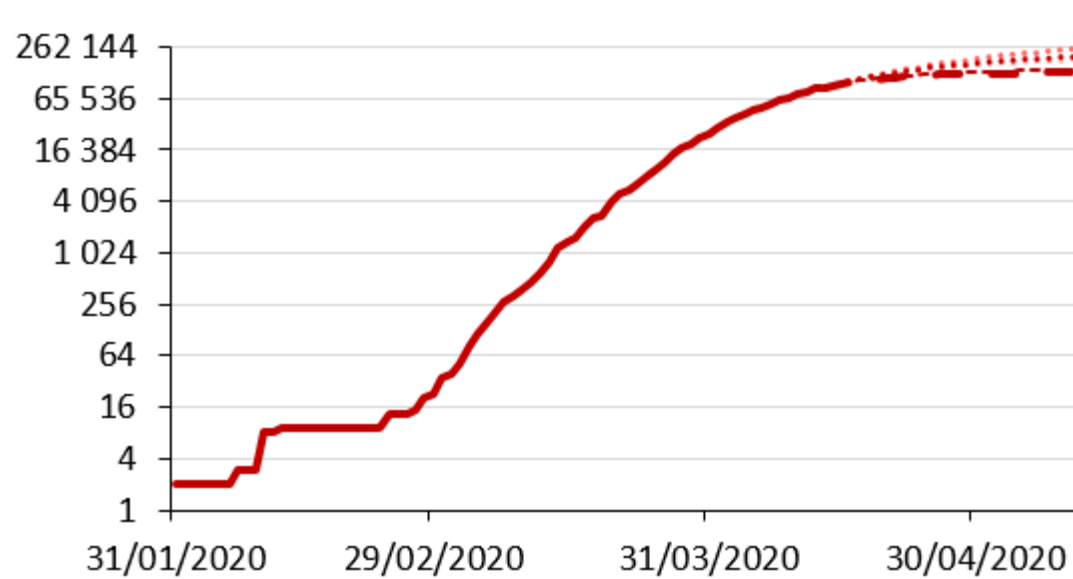


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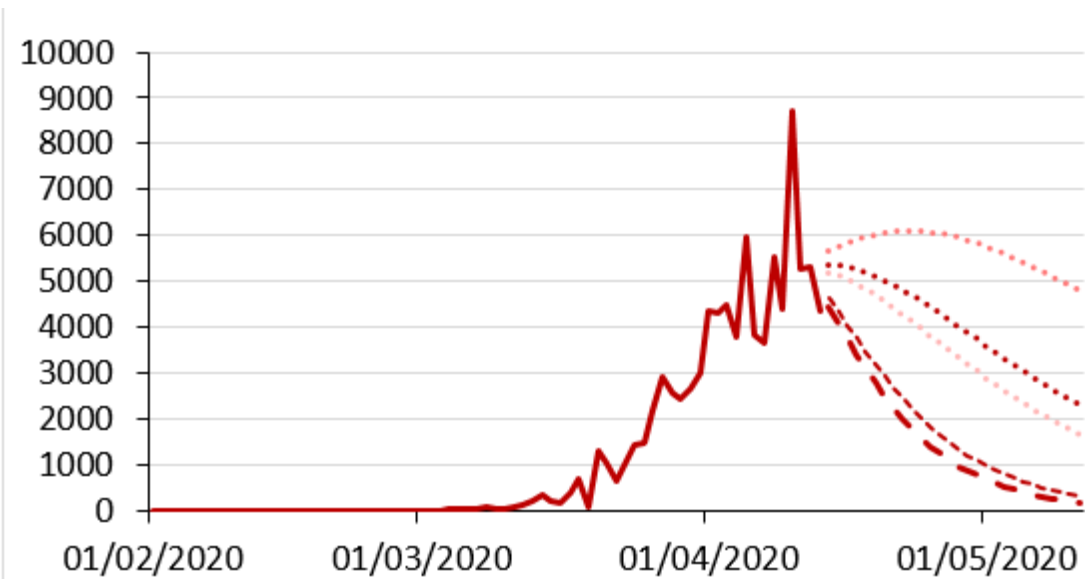
United Kingdom

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

Cumulated



Daily

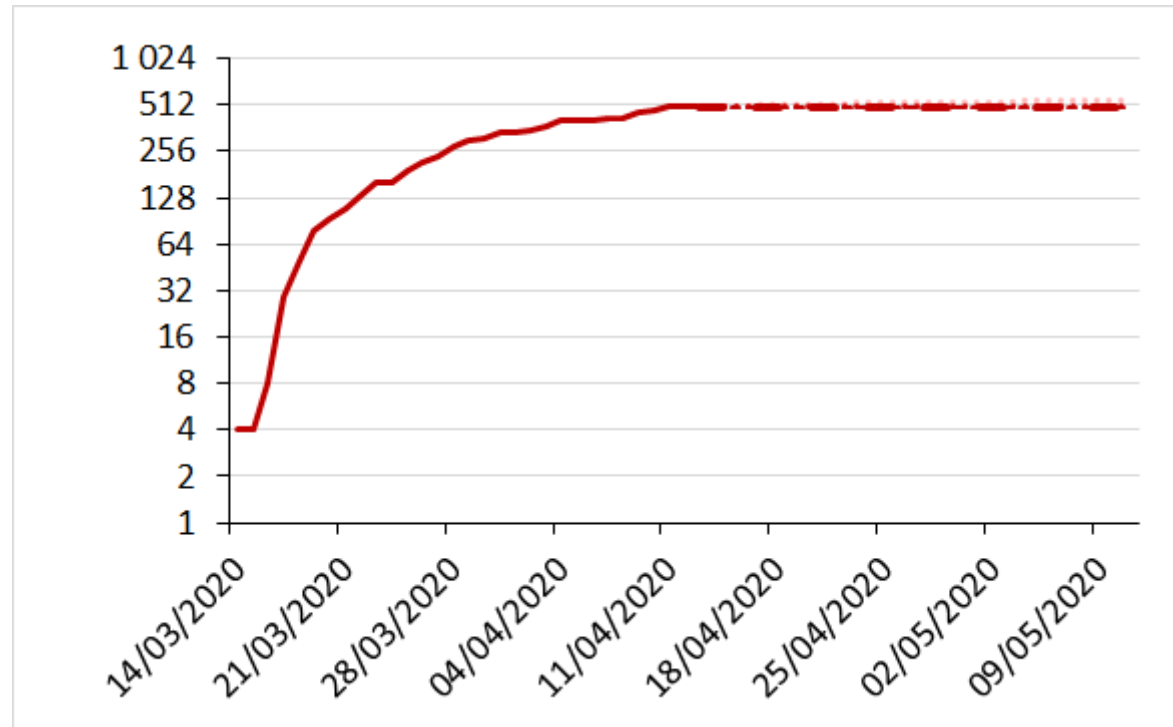


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Uruguay

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

Cumulated

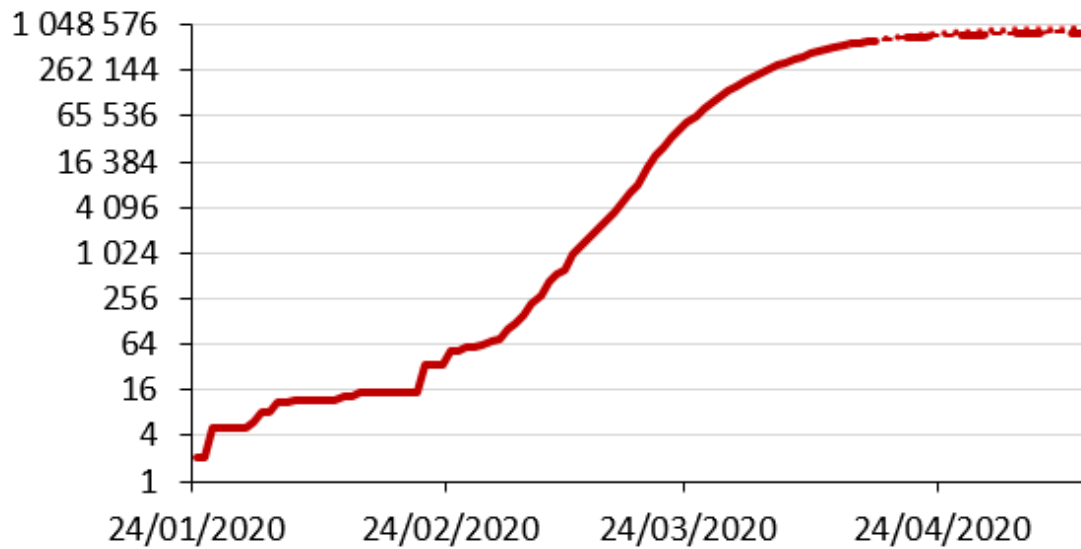


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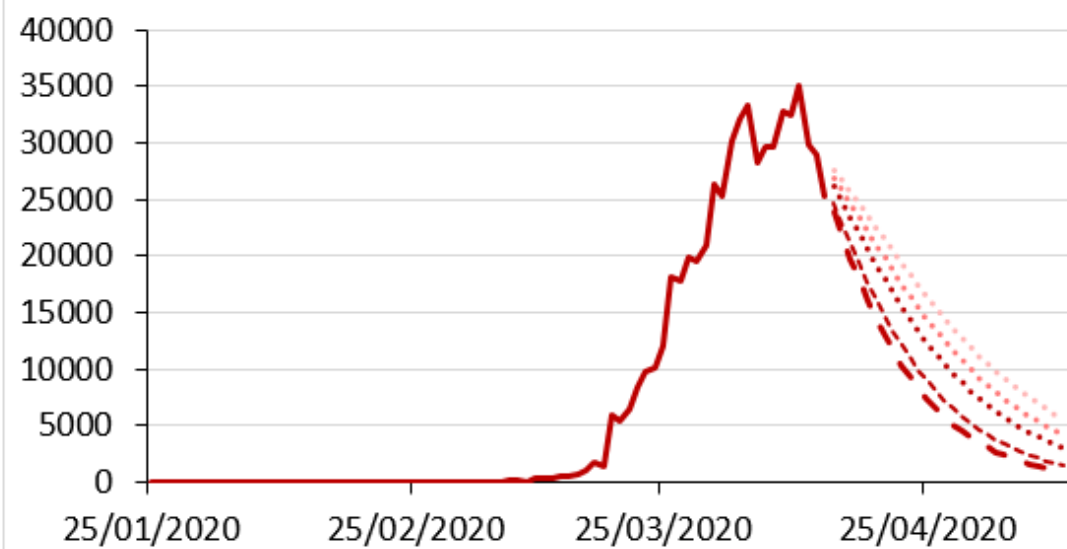
USA

— 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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