

COVID analysis platform tracks data about COVID-19 worldwide

May 29 2020



Discover OSCOVIDA
Open Science COVID19
Analysis website

Watch the interview with
Hans Fangohr (European XFEL)

<https://panosc.eu>

<https://oscovida.github.io/>

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panosc
photon and neutron
open science cloud

European XFEL

UNIVERSITY OF
Southampton

Credit: PaNOSC

OSCOVIDA, the Open Science COVID Analysis website is now online

at <http://oscovida.github.io>. The platform collects and shows analysis plots of COVID19 cases and deaths to better understand the time development of the pandemic and measures taken in all countries worldwide.

For each country, a standard set of analysis plots is provided:

- The accumulated cases of reported cases and deaths as function of time
- The daily changes in infection cases and deaths
- The [growth factors](#) (i.e. the ratio of new cases, or deaths, today relative to new cases, or deaths, yesterday) and -the reproduction number R
- Doubling times of cases and deaths
- Comparison of daily new cases with other countries
- Comparison of daily new deaths with other countries

The code can be used to extend the analysis, to share it and further contribute to the development of the tool, or for your own purposes. Ideas, suggestions and error reports are also welcome, through the feedback issue tracker on Github:

<https://oscovida.github.io/contribute.html>

The site has been developed using the partners' knowledge and expertise in the field of data analysis. It showcases technology—that is used and developed in PaNOSC for the analysis of Photon and Neutron data science—in the context of the COVID19 situation, and can be used by citizens and [policy makers](#) worldwide to better understand the unprecedented pandemic.

The figures shown are computed in Jupyter notebooks and then exported to HTML to be readable on the World Wide Web. For all figures a link is provided that allows to execute the notebook that has created the

figures in a cloud-based compute environment using the Binder project. In this way, the figures can immediately be reproduced, and the analysis code modified and extended, thus making re-use of the work very straightforward.

The site demonstrates the power of open science and value of remote data [analysis](#) to extract meaning from data (here by using the Jupyter Notebook and Binder service). As part of PaNOSC and EOSC, a European Binder instance is under development.

Provided by CORDIS

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