



Universität  
Zürich<sup>UZH</sup>

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# Ciao Corona – Die Rolle der Schulen in der Pandemie



Zürcher Forum P&G, 30.11. 2020

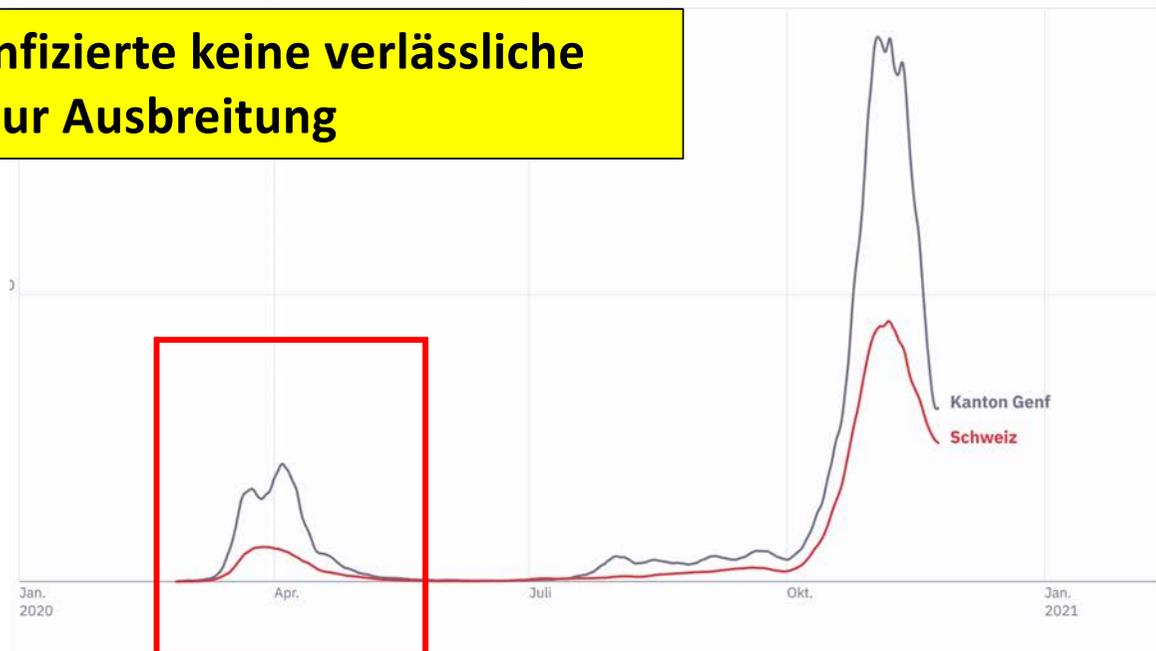
Milo Puhan, Dr.med., PhD, Prof für Epidemiologie und Public Health



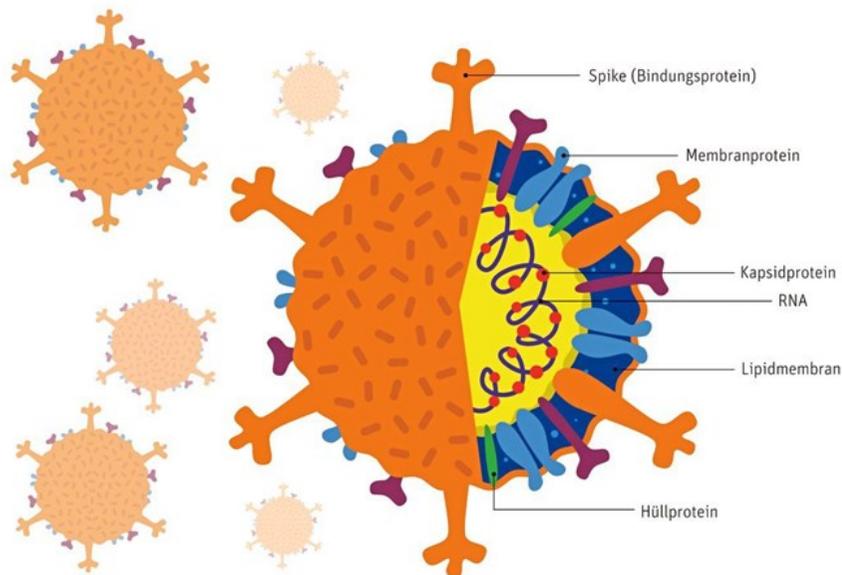
## Es begann in Genf, einem stark betroffenen Kanton

→ Anzahl Infizierte keine verlässliche  
Angabe zur Ausbreitung

Infektionen pro Tag und  
100'000 Personen



## Nachweis der Immunantwort als Beweis einer Infektion



Aufbau des Coronavirus

Reiz- und Angriffspunkte  
für das Immunsystem

Antikörper und  
Abwehrzellen



## Corona Immunitas der Swiss School of Public Health (SSPH+)



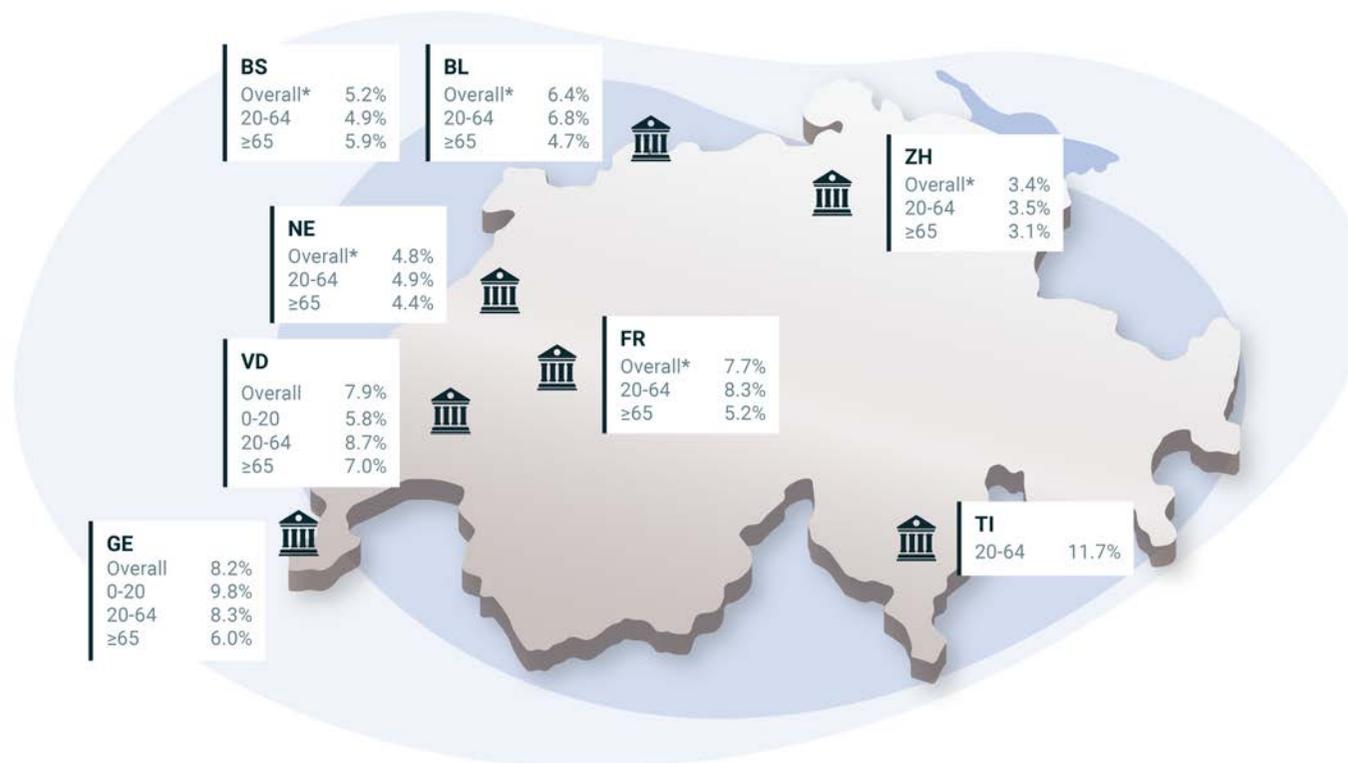


## Übergeordnetes Ziel von Corona Immunitas: Daten als Basis für Entscheide

“Die schweizweite Bestimmung der Corona-Immunität bringt Gewissheit. Und Gewissheit ist die Grundlage für zielführende politische Entscheide in Zusammenhang mit COVID-19.”



## Verbreitung Ende Sommer (Juni-September je nach Region)



\*0 - 20 jährige nicht getestet

Letztes Update: Oktober 2020



## Alle Standorte mit Kernprotokoll aber auch weiteren Studien



Ciao Corona		E2
tested population:	region	
		
school children age 5-16 and school employees	number of tested persons <b>n=10'550</b>	
<b>Main Goal</b> To investigate seroprevalence and its temporal changes, clustering of cases within classes, schools, districts, symptoms, risk factors in a representative cohort of children and adolescents shortly after reopening of the school system and thereafter		

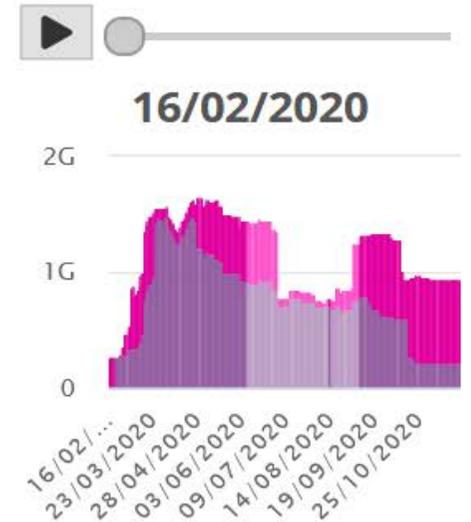


Global monitoring of school closures caused by COVID-19



● Partially open   ● Closed due to COVID-19   ● Fully open   ● Academic break

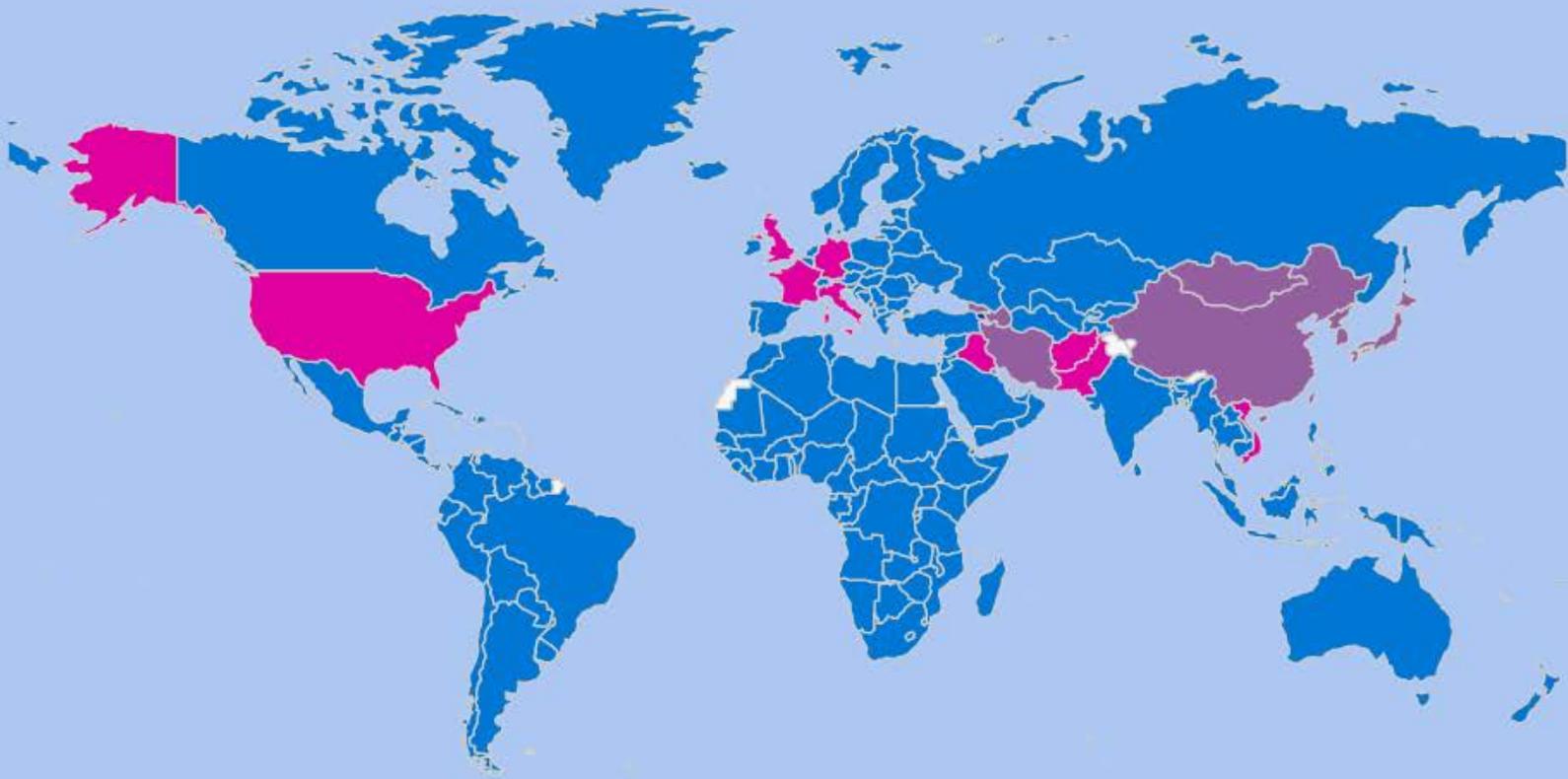
Visualize evolution over time.



**999,014** affected learners  
**0.1%** of total enrolled learners  
**1** country-wide closures

<https://en.unesco.org/covid19/educationresponse>

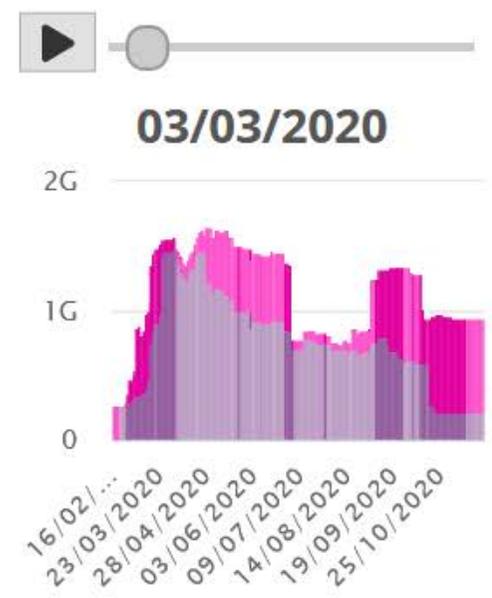
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Highcharts.com

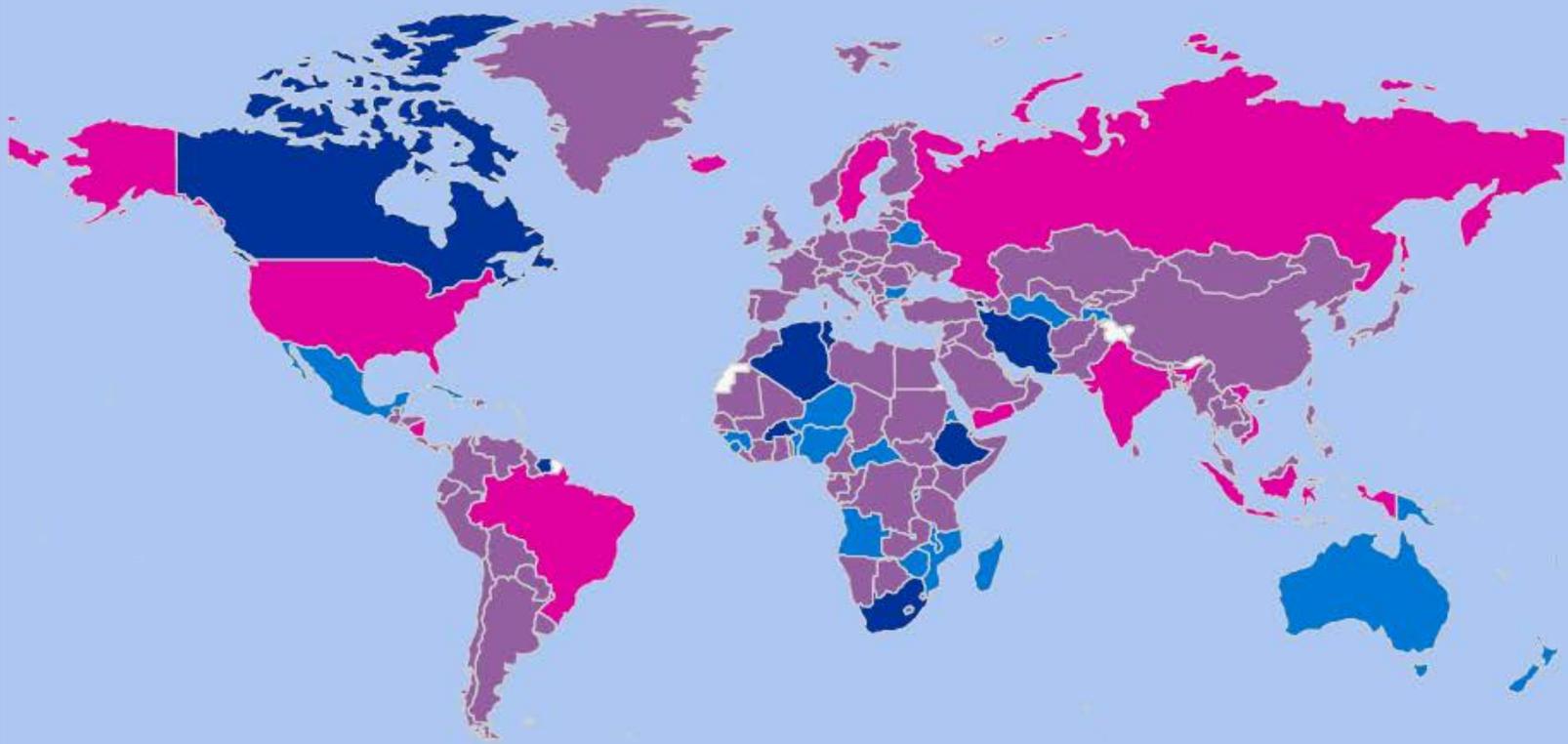
Visualize evolution over time.



**338,021,718** affected learners  
**19.3%** of total enrolled learners  
**12** country-wide closures

# Global monitoring of school closures caused by COVID-19

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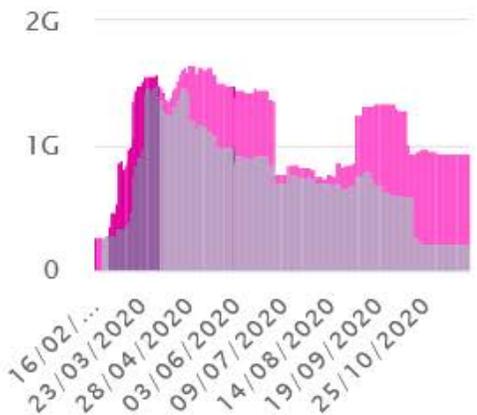
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Highcharts.com

Visualize evolution over time.

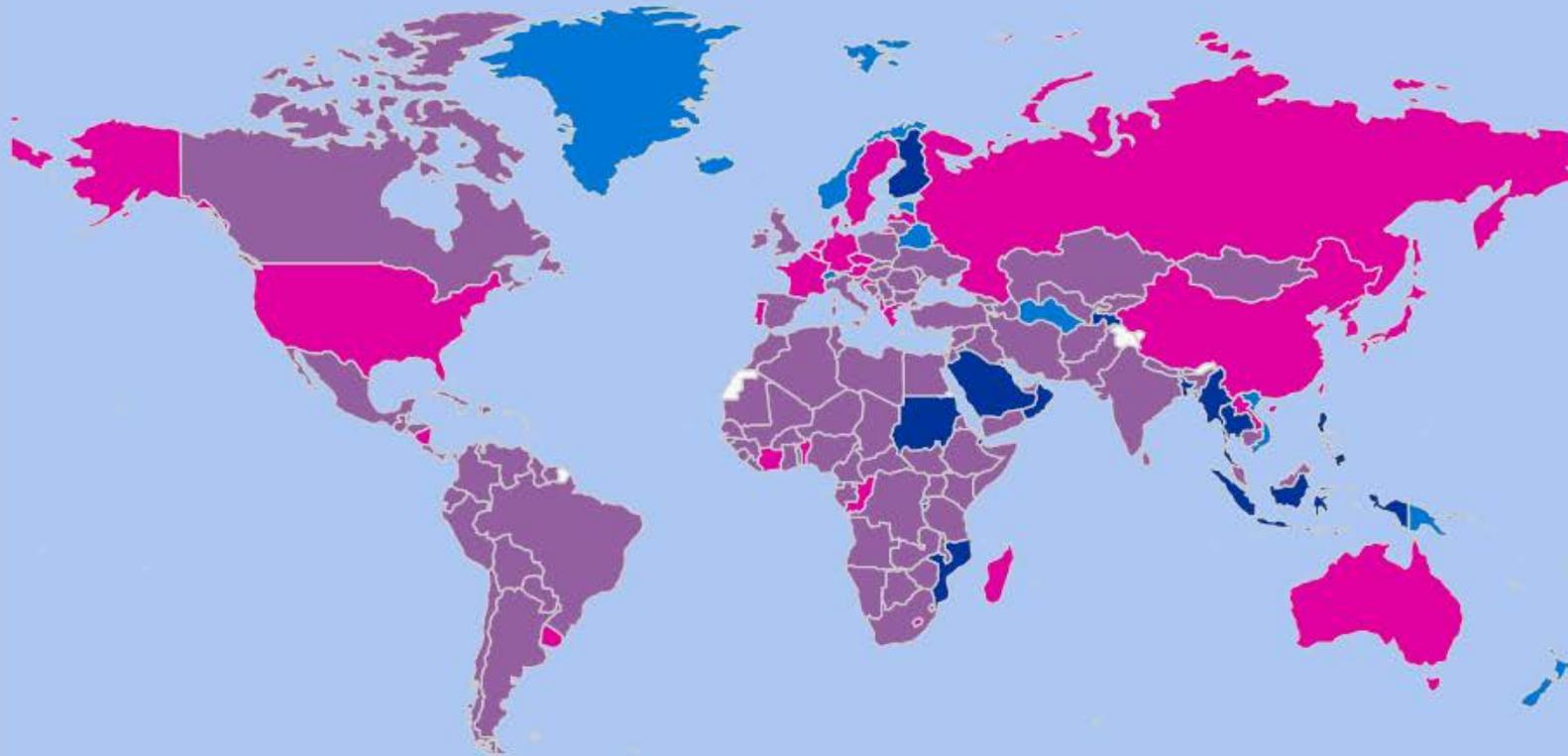


20/03/2020



**917,158,950 affected learners**  
**52.4% of total enrolled learners**  
**146 country-wide closures**

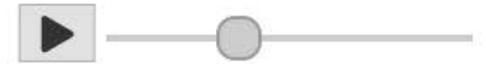
## Global monitoring of school closures caused by COVID-19



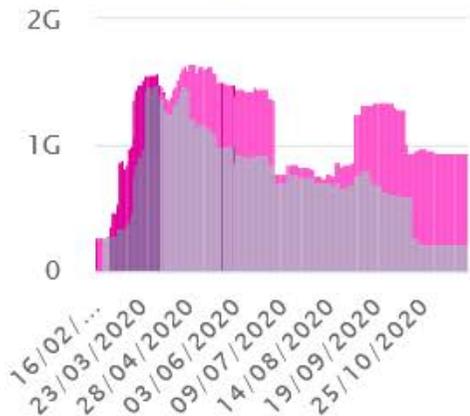
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Highcharts.com

Visualize evolution over time.

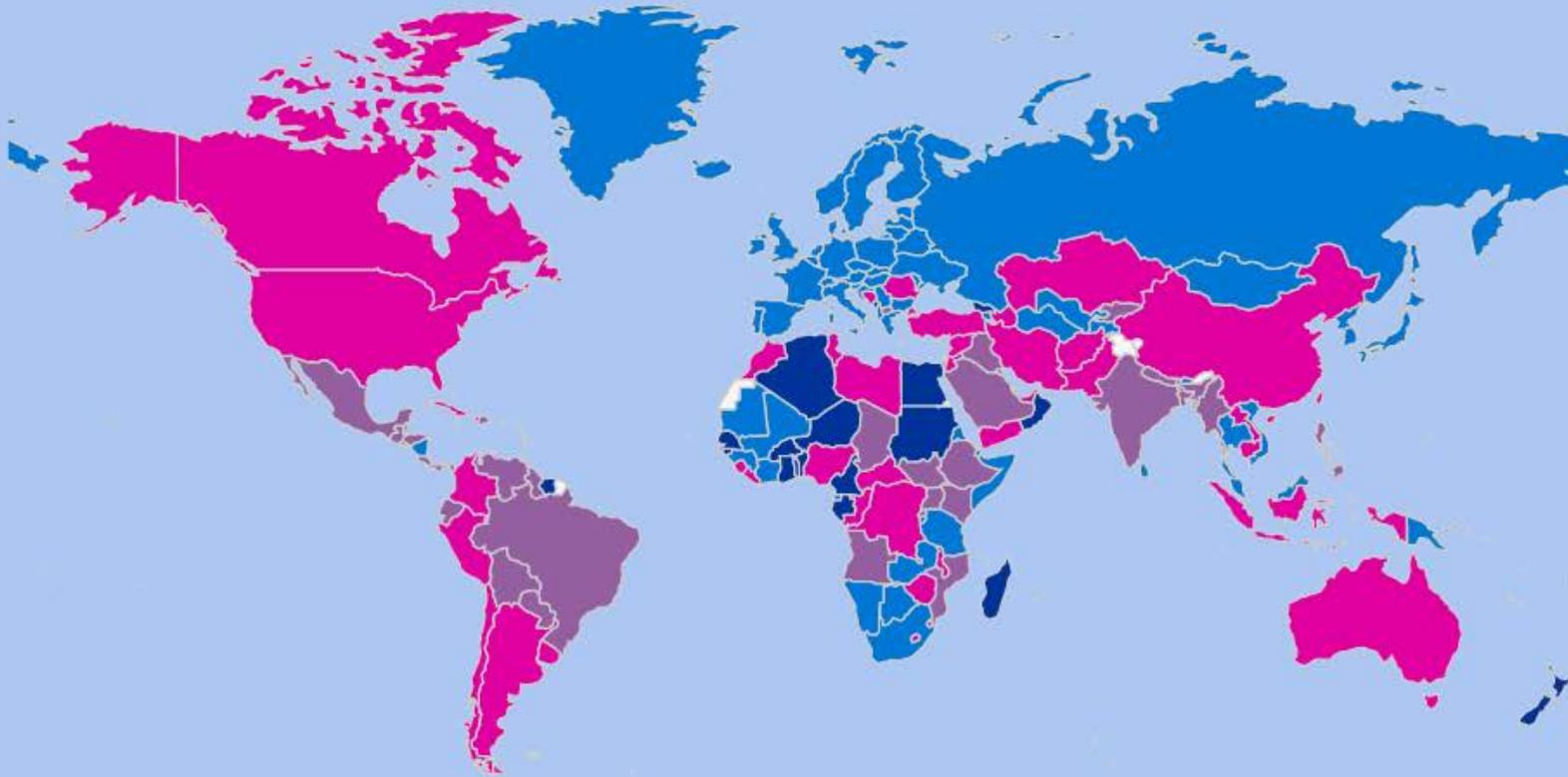


23/05/2020



**998,904,069** affected learners  
**57.1%** of total enrolled learners  
**134** country-wide closures

# Global monitoring of school closures caused by COVID-19



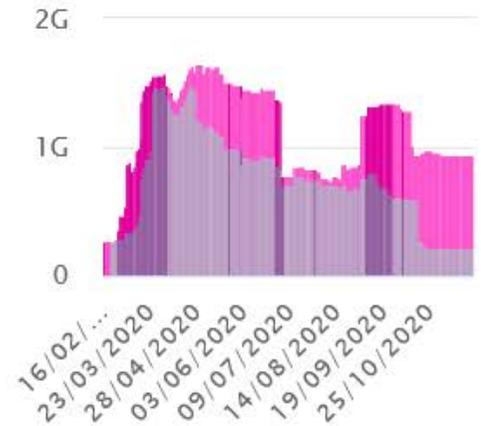
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Highcharts.com

Visualize evolution over time.

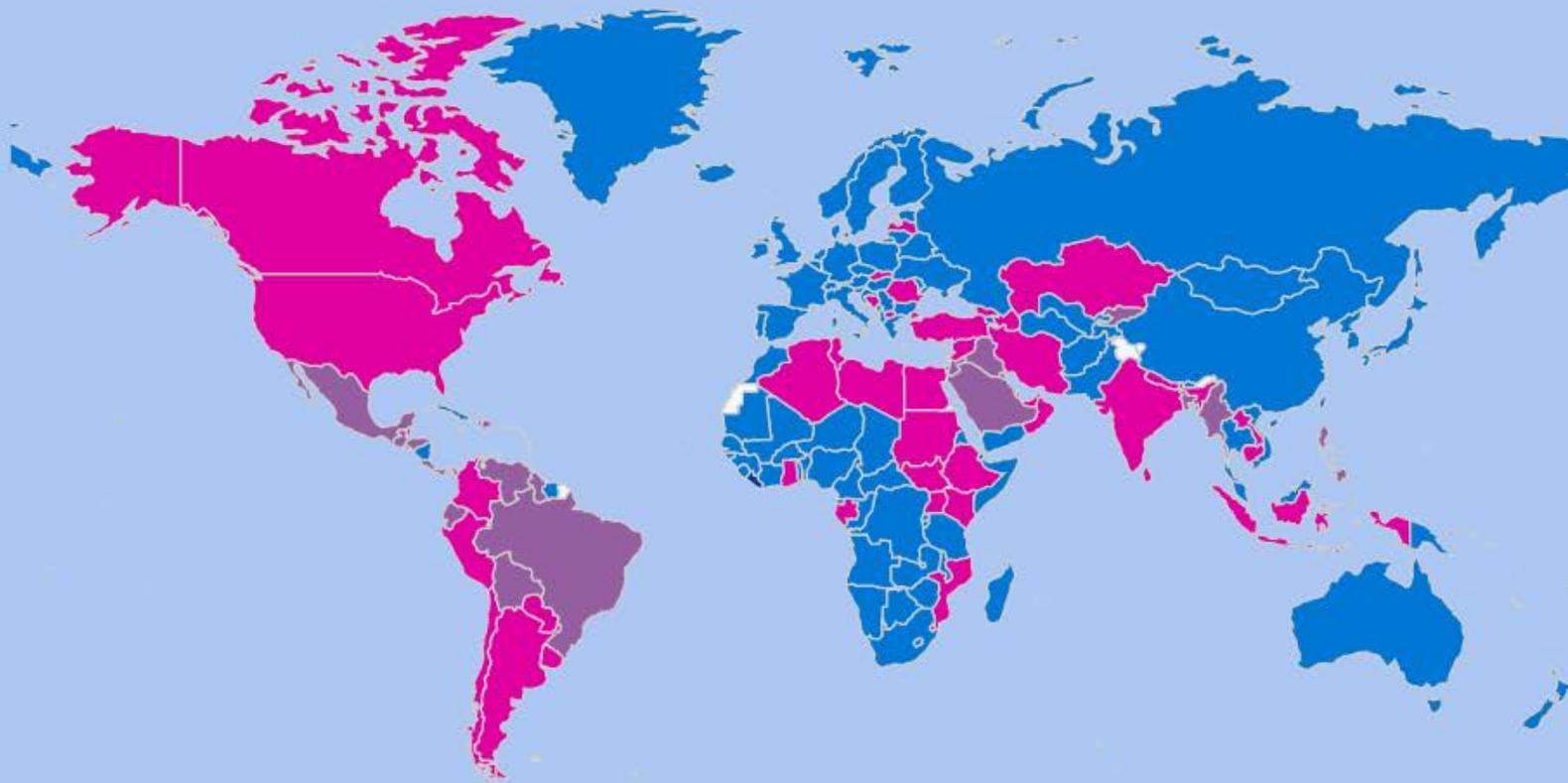


**26/09/2020**



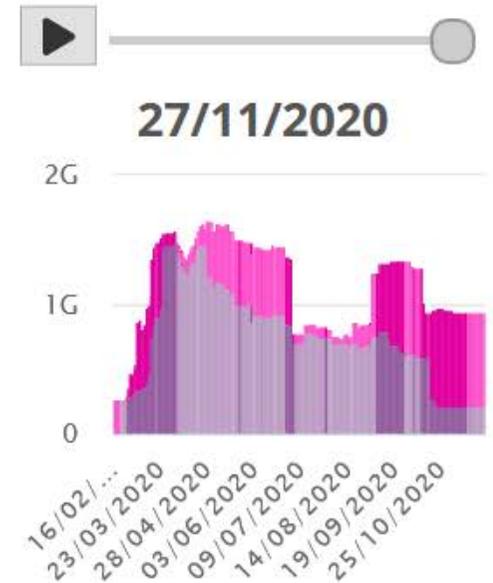
**631,213,410** affected learners  
**36.1%** of total enrolled learners  
**38** country-wide closures

# Global monitoring of school closures caused by COVID-19



● Partially open   ● Closed due to COVID-19   ● Fully open   ● Academic break

Visualize evolution over time.



**224,068,338** affected learners  
**12.8%** of total enrolled learners  
**23** country-wide closures

# The New York Times

## *Why Is Europe Keeping Its Schools Open, Despite New Lockdowns?*

Europe's latest wave of restrictions to stop the spread of coronavirus have largely avoided closing schools. We take a look at why and how they are being kept open.





## Die Balance zwischen Infektionskontrolle und Bedeutung von Schulen

### Schliessung / online Schule

Übertragung in Schulen

Risiko für Hotspots

Hoher Beitrag zu Mobilität



### Offene Schulen

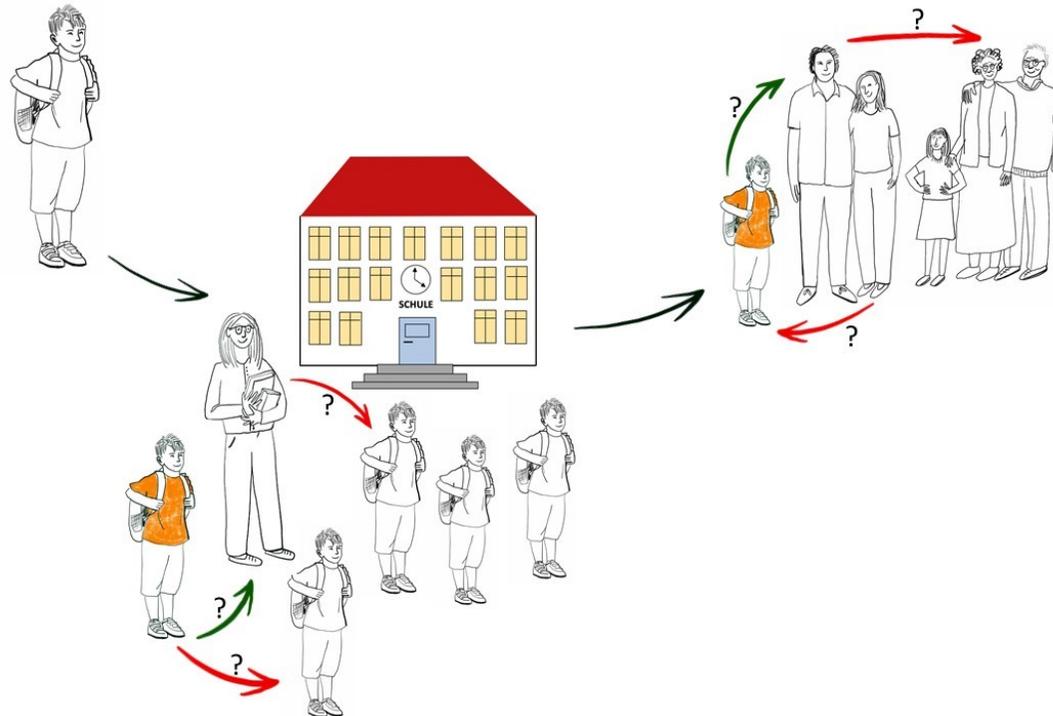
Recht auf Bildung

Chancen (Un-) Gleichheit

Häusliche Gewalt

Arbeit Eltern / Wirtschaft

## Populationsbasierte, repräsentative Schulstudien nötig



## Ziel: 55 Schulen mit Schülern aus Unter-, Mittel- und Oberstufe





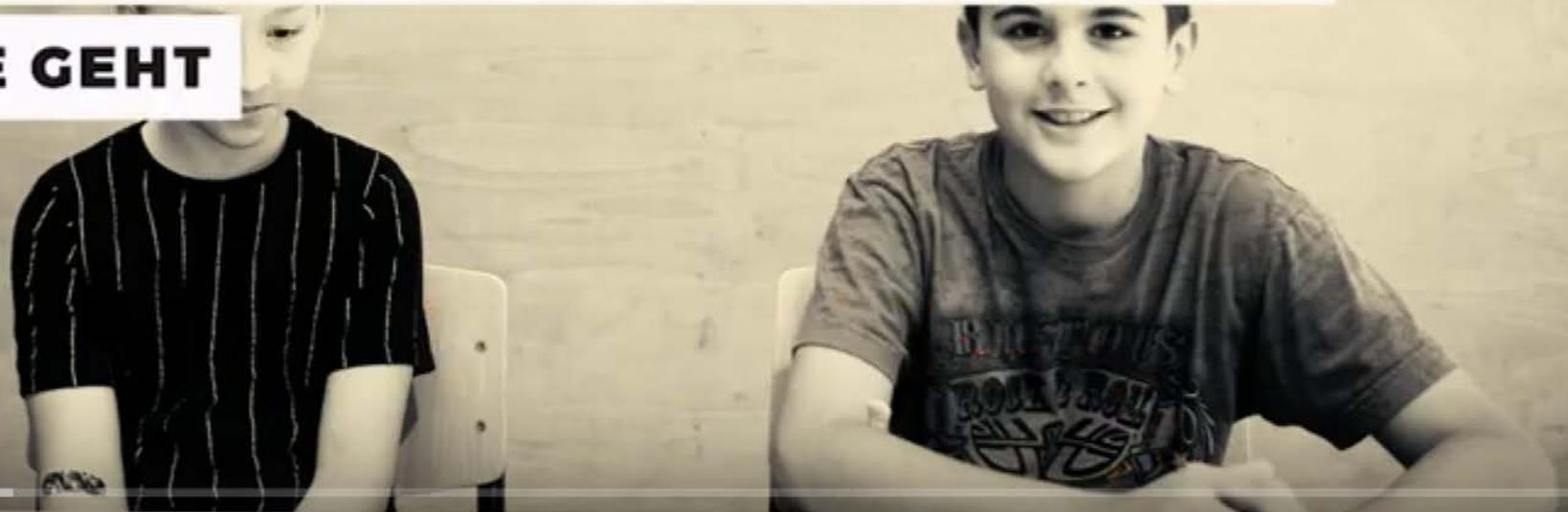
SSPH+ Corona-Test: Wie geht das? Dean und Dylan erzählen es dir genauer, schau rein.



Link kopieren

# CORONA-TEST

## WIE GEHT



0:02 / 2:04



YouTube

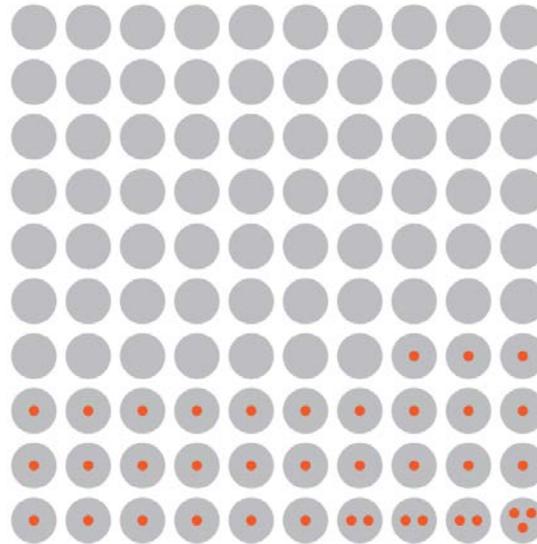




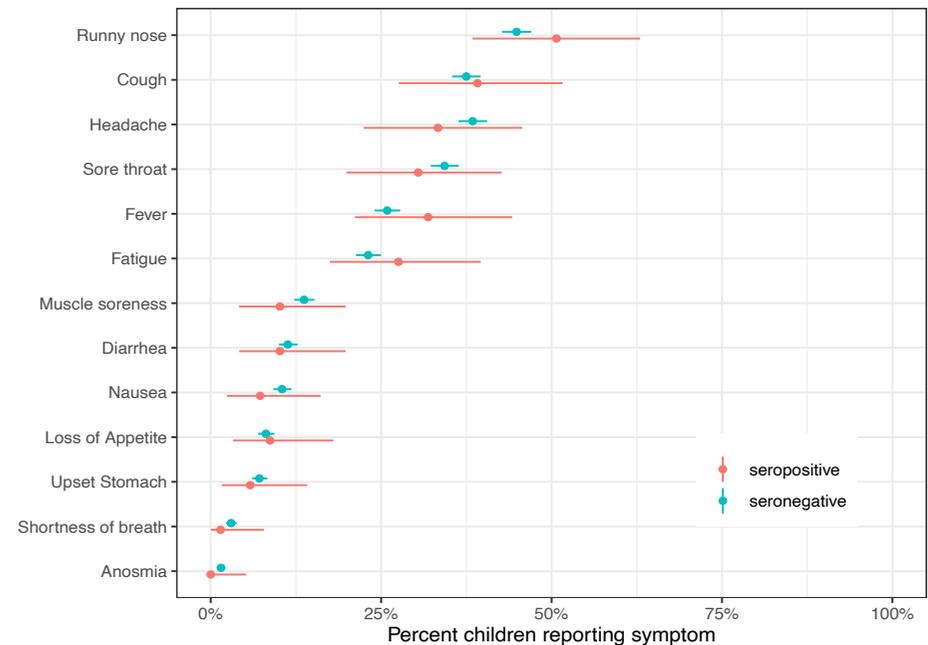
## Ausbreitung bis zum Sommer

- 3% aller rund 2500 Kinder hatten Infektion
- Gleich wie bei Erwachsenen
- Infektion scheint v.a. aus dem Haushalt zu stammen

## Kein clustering in Klassen



## Symptome geben keinen Hinweis auf Infektion





Ciao Corona - Die 2. Testreihe geht los, hier erfährst du alles was zu dazu wis...



Später ansehen



Teilen

# CIAO CORONA

## 2. TESTREIHE



0:04 / 2:21



YouTube





## Grosser Dank an die Schulen und das Ciao Corona Team



Susi Kriemler - Studienleiterin



Thomas Radlke - Studienleiter



Milo Puhan - Institutsleiter



Agnė Ulyte - UZH Mitarbeiterin



Ruedi Jung - UZH Mitarbeiter



Dagmar Stein



Karin Meier Obando



Sophie Baur



Seraina Hanselmann



Tilo Taslimi



Jacob Blankenberger



Ursula Streuli



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