# Data for figures and tables

## Generated data from computational implementation of the model

Data generated in the simulation runs are below node ../data/generated in the repository. The first cell of each file contains the list of parameter values.

### Explanation of terms in the header of csv-files

* day eternity ⬄ length of model run  
  replacement\_initial\_a ⬄ fraction of nodes replaced per cycle by nodes in initial state from the pool in initial configuration
* replacement\_final\_a ⬄ fraction of nodes replaced per cycle by nodes in final state from the pool in initial configuration
* number\_of\_contact\_events\_per\_day\_a ⬄ number of contacts per node, per cycle, in initial configuration
* pre\_active\_state\_duration\_1 ⬄ number of cycles before a triggered node of strain 1 gets active
* pre\_active\_state\_duration\_2 ⬄ number of cycles before a triggered node of strain 2 gets active
* active\_state\_duration\_1 ⬄ number of cycles of activity for a node of strain 1
* active\_state\_duration\_2 ⬄ number of cycles of activity for a node of strain 2
* ransmission\_probability\_1\_a ⬄probability that a contact between a node in initial state and an active node of strain 1 will result in triggering / initial configuration
* transmission\_probability\_2\_a ⬄probability that a contact between a node in initial state and an active node of strain 2 will result in triggering / initial configuration
* days before configuration switch ⬄ number of cycles before the configuration changes, if it does
* number\_of\_contact\_events\_per\_day\_b ⬄ number of contacts per node, per cycle, in modified configuration
* replacement\_initial\_b ⬄ fraction of nodes replaced per cycle by nodes in initial state from the pool in modified configuration
* replacement\_final\_b ⬄ fraction of nodes replaced per cycle by nodes in final state from the pool in modified configuration
* transmission\_probability\_1\_b ⬄probability that a contact between a node in initial state and an active node of strain 1 will result in triggering / modified configuration
* transmission\_probability\_2\_b ⬄probability that a contact between a node in initial state and an active node of strain 2 will result in triggering / modified configuration

### Data for figures and tables

Figure 1:

Single run 1 ⬄out\_s1.csv   
Single run 2 ⬄out\_s2.csv  
Single run 3 ⬄out\_s3.csv  
Single run 4 ⬄out\_s4.csv   
Single run 5 ⬄out\_s5.csv  
Single run 6 ⬄out\_s6.csv

Figure 2:

Scenario 1 ⬄out\_s1.csv

Figure 3:

Scenario 1 ⬄out\_s7.csv

Figure 4:

Scenario 8a ⬄out\_8a.csv  
Scenario 8b ⬄out\_8b.csv  
Scenario 8c ⬄out\_8c.csv  
Scenario 9 ⬄out\_9.csv

Figure 5:

Scenario 10a ⬄out\_10a.csv  
Scenario 10b ⬄out\_10b.csv  
Scenario 10c ⬄ out\_10c.csv

Figure 6:

Scenario 11 ⬄out\_11.csv  
Scenario 12 ⬄out\_12.csv   
Scenario 13 ⬄ out\_13.csv   
Scenario 14 ⬄ out\_14.csv

Figure 7:

Scenario 15 ⬄out\_15.csv

Figure 8:

No data, this is just a sketch

## Data from external sources

Data from external sources is below the node ../data/external. Where we represent data directly available in the external source, we just give the link. Where data is compiled from several external tables, the raw data used has been copied and zipped.

Figure 9:

Generated by [data visualization tool of welcolme sanger institute.](https://covid19.sanger.ac.uk/lineages/raw)

F8gures 10-13

Generated by [data visualization tool of ourworldindata.org](https://ourworldindata.org/covid-cases) from WHO data. The [raw data](https://catalog.ourworldindata.org/garden/covid/latest/cases_deaths/cases_deaths.csv) is also available from this source.

F8gures 14-16

The figures have been generated from [European Covid-19 Forecats Modelling Hub](https://github.com/european-modelling-hubs/covid19-forecast-hub-europe_archive/tree/main/data-processed) data by a data visualization tool provided by this initiative. For reasons unknown to us, the visualization tool only works for the most recent period, and therefore no longer can be used for the periods shown in the text. However, the data as such is still available and also contained in  
 ../data/external/covid19-forecast-hub-europe\_archive-main.zip.

Table 1

This data represents [growth dynamics of various strains](https://opendata.ecdc.europa.eu/covid19/virusvariant/xlsx/data.xlsx) provided European Center For Disease Control. It is also in the repository: ../data/external/strain\_data.csv

Table 2

This data represents virus spread in Germany on various levels. The table contains data from various datasets, all available from [github repository](https://github.com/robert-koch-institut/) maintained by Robert Koch Institute:

Numbers for Munich are in COVID-19-Faelle\_7-Tage-Inzidenz\_Landkreise.csv beginning at line 401482 when sorted by Landkreis/date (Munich has Landkreis-ID 09162).   
Numbers for Bavaria, Berlin and Germany are aggregated weekly 7d-incidence per week from weekly reports of RKI ‘Wochenbericht\_2022-MM-DD.pdf’.  
Raw data for Bavaria and Berlin and Germany on daily basis is in   
COVID-19-Faelle\_7-Tage-Inzidenz\_Bundeslaender.csv (Bavaria Bundesland-ID: 2, Berlin: 3).  
COVID-19-Faelle\_7-Tage-Inzidenz\_Deutschland.csv (age group 0++ ⬄ all ages)