

Project report

The Vaccinators

Cedric De Schepper, Thanh Danh Le,
Wannes Marynen & Stijn Vissers

May 2019

1 Introduction

This document specifies where you can find our documents and project code with additional explanation. An overview of everything can be found on our website:

<https://descheppercedric.github.io/Stride-Dissertation/>

This document will be updated until the final date of submission.

2 Simulation paper

The simulation paper is available on the following link: https://github.com/DeSchepperCedric/Stride-Dissertation/blob/master/docs/BAE_Simulation_Paper.pdf

Feedback on the first version of this paper is partially incorporated.

3 Paper

The paper is currently not available.

4 User Manual

The user manual of our project can be found at the following link: <https://github.com/DeSchepperCedric/Stride-Dissertation/blob/master/doc/latex/UserManual.pdf>

5 Alpha/Beta version

The alpha and beta version of our project can be found respectively under the tag "Alpha" and "Beta":

- Alpha: <https://github.com/DeSchepperCedric/Stride-Dissertation/tree/Alpha>
- Beta: <https://github.com/DeSchepperCedric/Stride-Dissertation/tree/Beta>

6 Final version

The final version of our project will be available under the tag "Final" at <https://github.com/DeSchepperCedric/Stride-Dissertation/tree/Final>

7 Features

7.1 Daycare & PreSchool

Feature completely finished. The most important files for this features are:

- main/cpp/geopop/populators/DaycarePopulator.cpp
- main/cpp/geopop/populators/PreSchoolPopulator.cpp
- main/cpp/geopop/generators/DaycareGenerator.cpp
- main/cpp/geopop/generators/PreSchoolGenerator.cpp

7.2 Workplace size distribution

Feature completely finished. The most important files for this features are:

- main/cpp/geopop/populators/WorkplacePopulator.cpp
- main/cpp/geopop/generators/WorkplaceGenerator.cpp
- main/cpp/geopop/io/WorkplaceReader.h
- main/cpp/geopop/io/WorkplaceCSVReader.cpp + .h

7.3 Dataformats

Feature completely finished. The most important files for this features are:

- main/cpp/geopop/io/GeoGrid<FORMAT>Reader.cpp
- main/cpp/geopop/io/GeoGrid<FORMAT>Writer.cpp
- main/cpp/geopop/io/HouseholdJSONReader.cpp

7.4 Demographic Profile

Implementation completely finished, simulation results will follow in the final paper. The most important files for this features are:

- main/cpp/geopop/GeoGridConfig.cpp
- main/cpp/geopop/populators/<CONTACTPOOLTYPE>Populator.cpp
- main/cpp/geopop/generators/<CONTACTPOOLTYPE>Generator.cpp
- main/cpp/geopop/io/MajorCitiesReader.cpp
- main/resources/config/run_generate_regions.json.xml
- main/resources/data/JSONHouseholds.zip
- main/resources/data/flanders_major_cities.csv

7.5 Visualization tool

- main/cpp/geopop/io/Epi<FORMAT>reader.cpp
- main/cpp/geopop/io/Epi<FORMAT>Writer.cpp
- main/cpp/geopop/Location.cpp + .h
- qt/*

7.6 Belgium Simulation

This feature is not complete.

A config file for a simulation of Belgium can be found at:

- main/resources/config/simulation_belgium.xml

Also a csv file that contains all the relevant info of all the belgium cities, has been generated and can be found at:

- main/resources/data/belgium_cities.csv