

VERY BRIEF INSTALLATION GUIDE

This repository contains the model code underlying Ivo Sedee's master thesis, "Creating a bias in inspection data: Exploring the medium- to long-term effects of data-driven risk-based regulation", submitted in August 2019 for his MSc degree in Environmental and Policy Analysis at the TU Delft. He was supervised by Haiko van der Voort at the TU Delft and Tom Boojink and Elske van der Vaart at the Dutch Food and Consumer Product Safety Authority ('NVWA'). A journal article based on this work was submitted to the 'Tijdschrift voor Toezicht' in June 2020. The thesis can be downloaded from here:

<http://resolver.tudelft.nl/uuid:4ee059f8-6923-4b9e-b807-08944027d2d5>

The model is written in NetLogo, a free and open source programming platform specifically for building agent-based models. It is easy to download and install, and offers a graphical interface in addition to a code tab. The 'InspectorModelNVWA.nlogo' presented here visualises inspectors and businesses as they are inspected for violations; the model can be run using buttons and its behavior can be monitored with a number of graphs that update as it runs. The NetLogo language is fairly intuitive and very human-readable. The NetLogo programming platform is available from here:

<https://ccl.northwestern.edu/netlogo/>

The 'InspectorModelNVWA.nlogo' makes use of an *extension* called stats which needs to be downloaded separately. It can be downloaded from here:

<https://github.com/NetLogo/NetLogo/wiki/Extensions>

The installation instructions for the *stats* extension are included in the download as an *.md* file; this is in Markdown format, but the text can also be accessed through a text editor. For ease of use, here are the installation instructions for the 2.0.0 version of the *stats* extension:

*Unzip the archive, rename the extracted directory to ****stats****, and move the ****stats**** directory to the ****extensions**** directory inside your NetLogo application folder. The NetLogo application will normally be in the Applications folder on the Mac, or under C:\Program Files on Windows, and the ****extensions**** directory is in the ****app**** subdirectory of the NetLogo application. Or you can place the **pathdir** directory in the same directory holding the NetLogo model in which you want to use this extension.*

Once NetLogo is installed, and the *stats* extension is extracted in the correct location, double-clicking on the 'InspectorModelNVWA.nlogo' file should open up its visual interface.

Questions concerning the code can be directed to Ivo Sedee, i.sedee@hotmail.com.