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Author: Periklis Kontoroupis

Objective: To generate intensity data using wormsim, by assuming some fixed transmission particles. Afterwards the data generated are imported to the ABC-SMC algorithm to recover the original transmission parameter used

Description:

Under the folder **Inference with ABC**, there are several subfolders, namely the 01\_Code, 02\_Output, 03\_Source\_code, the 04\_wormsim-v258Ap25. Under the folder 03\_Source\_code are the r scrips needed to parse values to the xml

Under the folder 01\_Code, the r script **Model testing.r** is needed to generate intensity specific data, given some previously defined transmission parameters (mbr and k). Also possibilities exist to also include value to the external function but for this example I set it to zero. Them xml file required is the **template2MDA\_all\_6\_10\_18.xml** located under the subfolder 03\_Source\_code. I allowed 1000 repeated simulations and took the average, on intensity which is to be used on ABC. The model outputs is named as **Pruda\_Wb\_based\_data\_21018.Rdata.** The corresponding files to be used later under Task 2.2 are the **syn.obs.csv** and the **ydata.csv.** The former is categorized intensity by level and includes the following headers, "village","year","intens","cases","N","prev" and the latter includes the number of people surveyed by age class.