**Introduction to ‘targets’ package**

Have you had an experience of changing some lines of code and you frantically had to search for every part that had been affected by the change you made? If you have one, this training can provide you a potential solution preventing you from having that experience again.

This training session aims to introduce you to **‘targets’** package. This R package would help you a lot in terms of streamlining your code files. The biggest advantage of using the ‘targets’ package is that it automatically **detects** the changes in your code, and **knows** which analytical steps are affected by the change and have to be executed again. As a result, ‘targets’ package significantly reduces the code execution time by doing only the necessary computation. Moreover, the package supports implicit parallel computing.

Throughout this training, I will explain how to use the ‘targets’ package with a real but simple example.

This training is for intermediate/advanced R users who knows to create a user-defined function. Since the package is an R package, this training is not for Python users but a comparable Python package is, to my best knowledge, called ‘snakemake’(<https://snakemake.github.io/>).

Before coming to this training session, please have the latest version of R(4.2.2) and R Studio on your laptop. Moreover, please install the following R packages: "dplyr", "stringr", "stringi", "ggplot2", "data.table", and "gapminder".