**Workshop preparation in R**In the workshop we will use the STOCfree package to predict herd level probabilities of freedom from infection from longitudinal data collected as part of surveillance programmes.  
  
If you are interested, please find some background information about the project (<https://www.stocfree.eu/>, <https://www.frontiersin.org/articles/10.3389/fvets.2019.00133/full>) and the current version of the STOC free model (<https://www.biorxiv.org/content/10.1101/2020.07.10.197426v3> , <https://github.com/AurMad/STOCfree>).  
  
**Package installation and updating before the workshop:**  
Before installing the package, you need to make sure that JAGS is installed. This programme can be installed from the following website: https://sourceforge.net/projects/mcmc-jags/files/.

The easiest way to install the `STOCfree` package is from Github. This requires installing the `devtool` package first. You will need R version 3.6 or later to install the package. You may be asked to install or update several packages during the installation.  
install.packages("devtools")  
library(devtools)  
  
In order to install (or update) the STOCfree package, run the following line:  
install\_github("AurMad/STOCfree")   
library(STOCfree)  
  
We will also need the ggplot2 package:  
library(ggplot2)