**R PACKAGE PROJECT**

1. INAR(1) model
   1. INAR(1) model with binomial thinning, and extended thinning operators.
   2. INAR(1) model with different distributions for innovations.
2. INAR(1) for under-reporting
   1. With no correlation and correlation structure between the states of under-reporting.
   2. Avoiding some parameters of the complete model.
   3. Including covariates 🡪 Example COVID
3. INAR(p) with no under-reporting (?)
4. Examples of application for each function