

### Livestock facility data

- Type and number of animals in the facility
- Economic data
- Geographical location

# Techno-economic model

- Mass & energy balances
- Equipment capital cost
- Operating cost
- Environmental performance



## Environmental geographic information model

- Trophic State Index
- Techno-ecological synergy (TES) indicator
- Soil fertility



### MCDA model

#### Criteria:

- I. Nutrient recovery performance
- II. Effluents environmental risk
- III.Economic barrier for technology implementation
- IV.Economic performance
- V. Technological feasibility



Technology recommendation