

## Residents

Residents are represented by a set of actions. Residents, can take the action “house modification”  $k_M$ , in which case they influence the sensitivity of the neighborhood to the exposure to flooding, gastrointestinal diseases or water scarcity, depending on the modification. This modification can be to adapt to suffer less flooding events or a modification to adapt to suffer less water scarcity. Residents can also protest and thus influencing the social pressure. Social pressure is a census-block attribute used by the water authority to define priority neighborhoods for investment.