Residents

These agents represent different stereotypes of residents found in Mexico City neighborhoods that suffer from exposure to flooding or water scarcity and are exposed to gastro intestinal infectious disease risk. Information to define the decisions of the different type of residents are obtained from a statistical classification based on the similarities in socio-economic conditions and characteristics of neighborhoods of the city based on data at the level of the census block. Therefore each census-block is influenced by a particular resident agent. The actions criteria and priorities of each type of resident agent is informed by a multi-criteria model.

In the Netlogo code, residents are represented by a set of actions. Based on the multi-criteria decision metric residents choose which action to take from a set of possible alternatives. Residents, can take the action “house modification” ,in which case they influence the sensitivity of the neighborhood to the exposure to flooding or water scarcity, depending on the modification. 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.