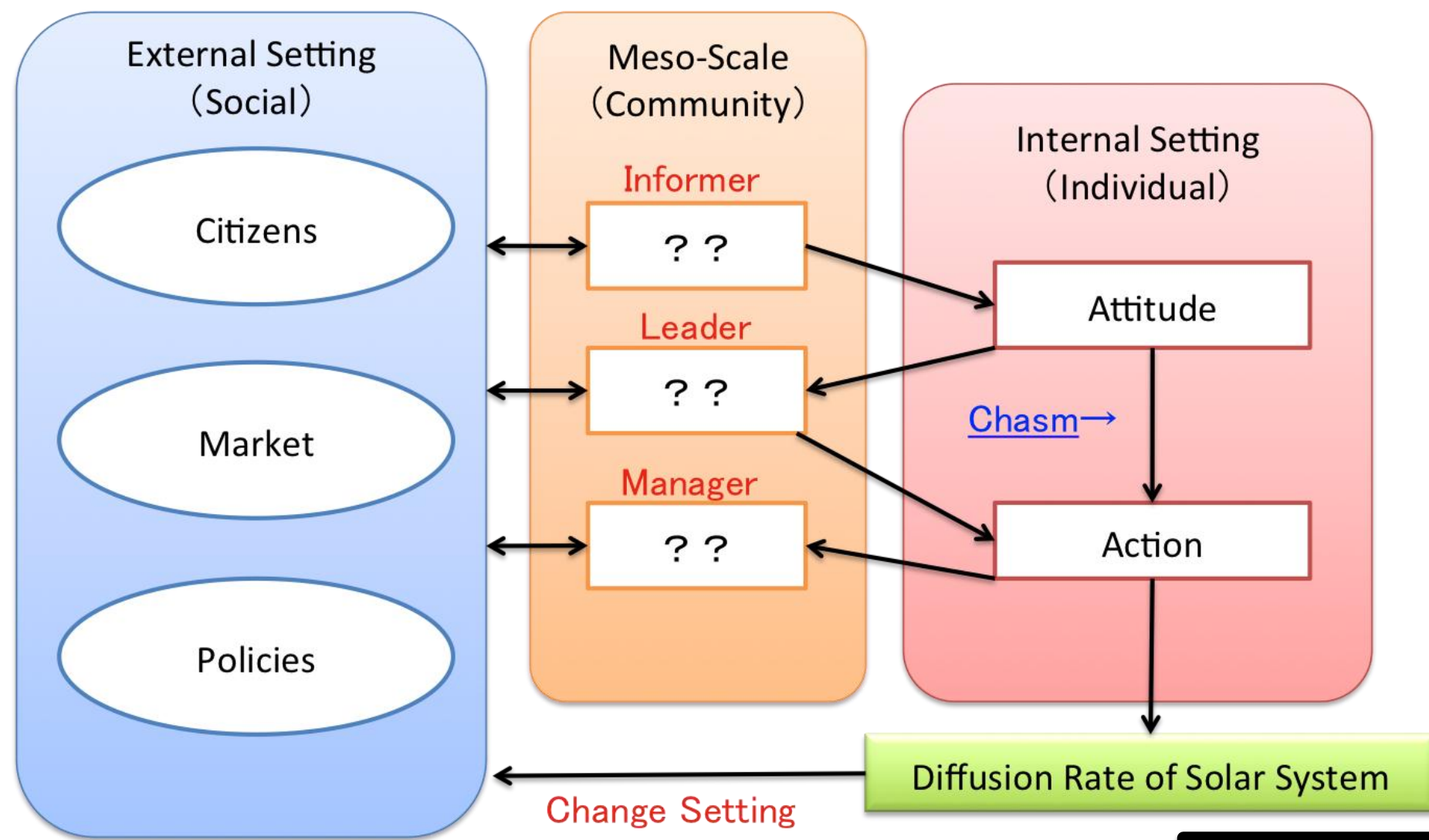


Agent-Based Modeling of the Diffusion of Photovoltaic Systems among Household

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1. Background

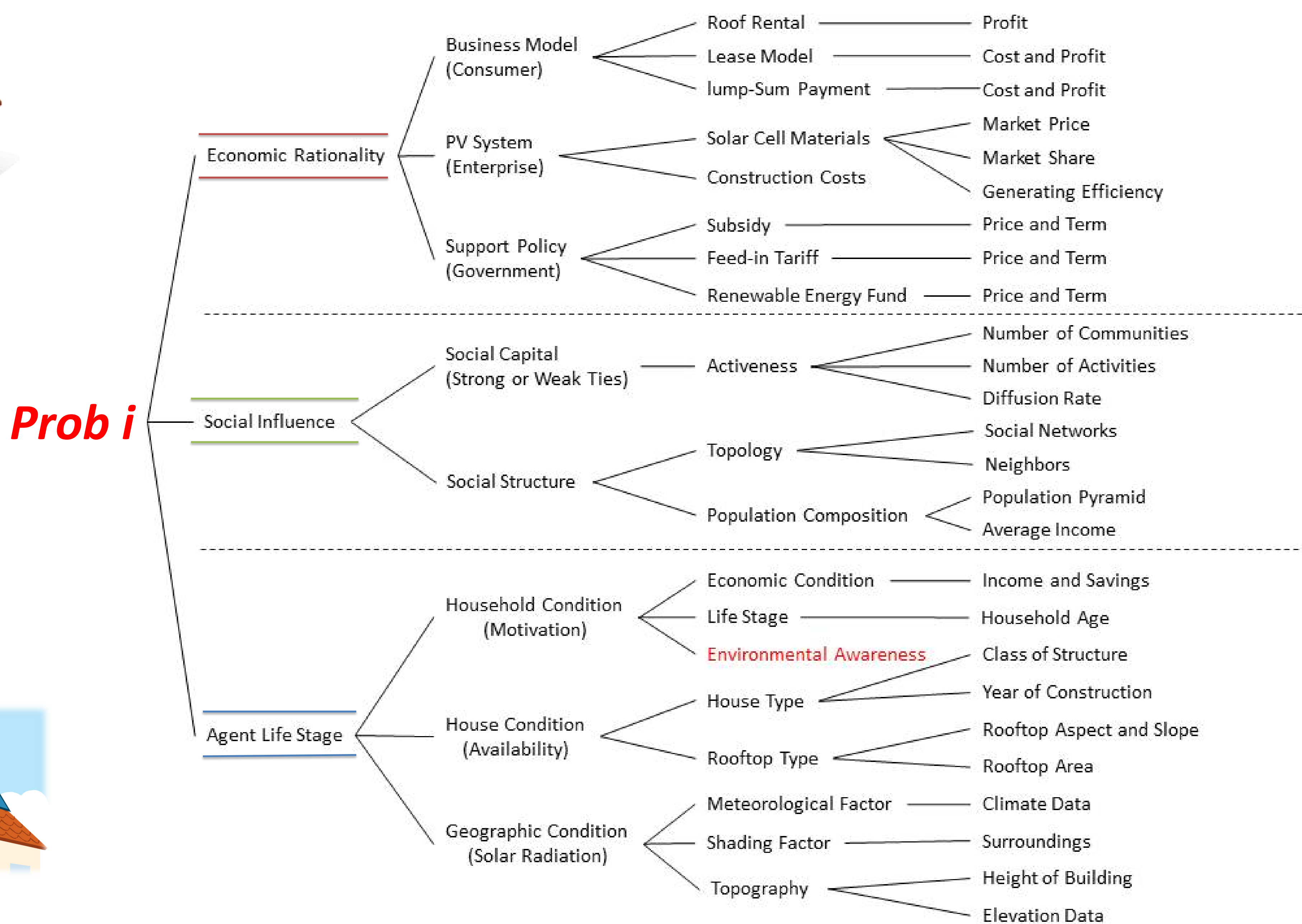
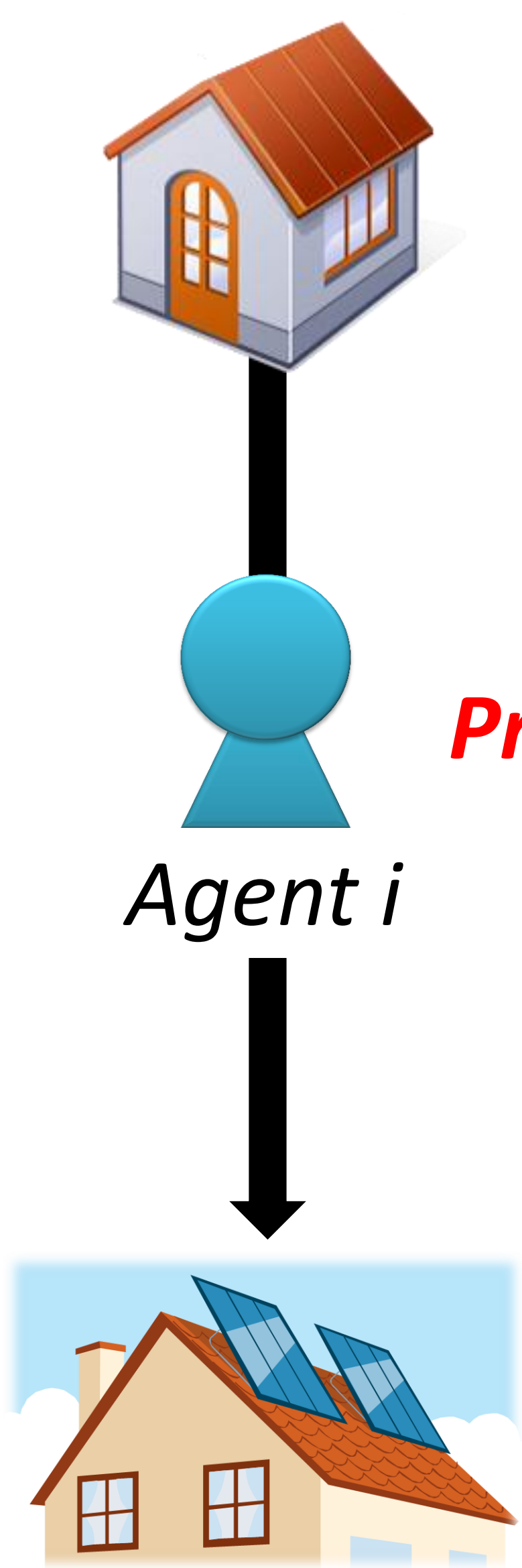
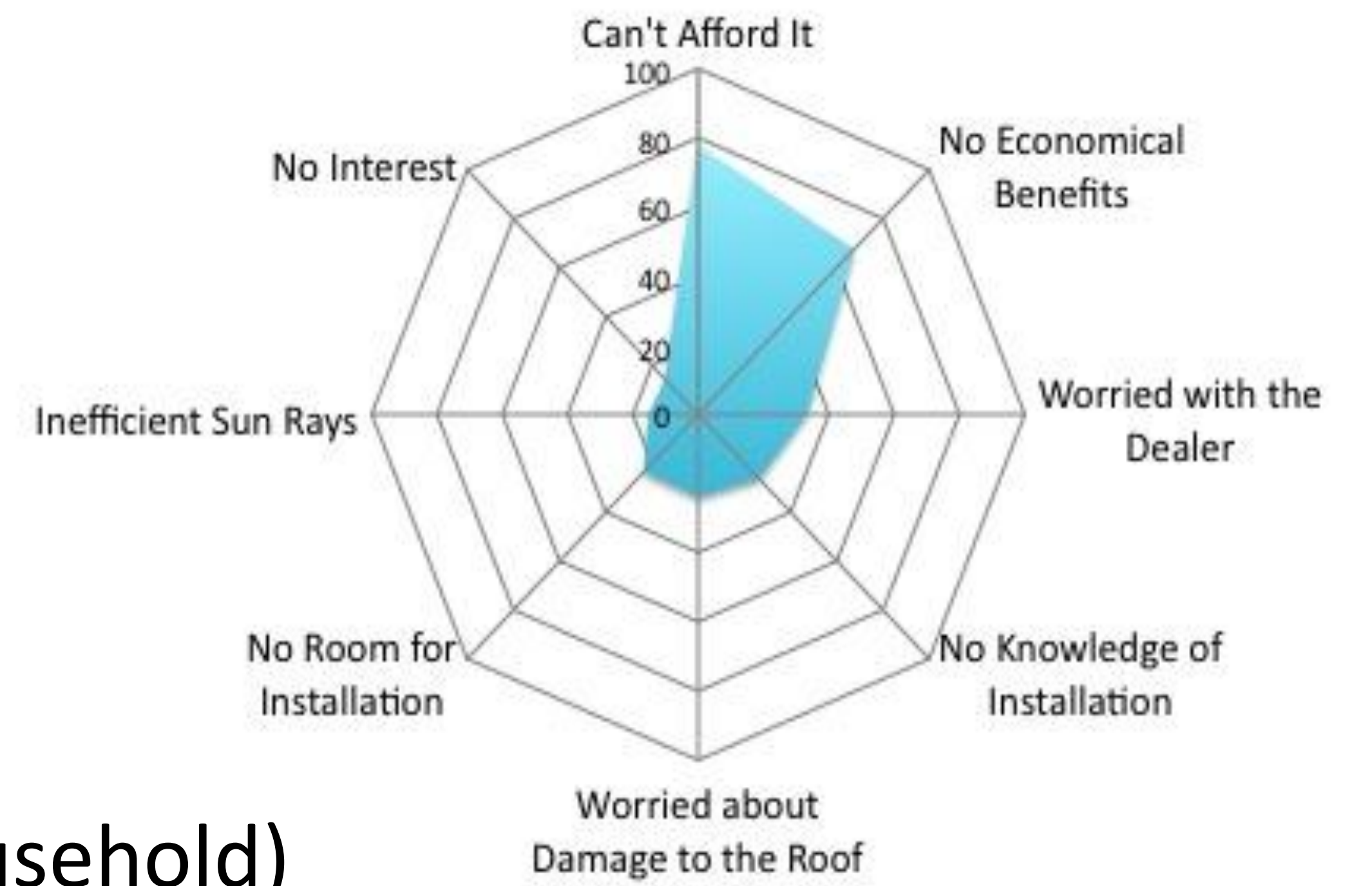
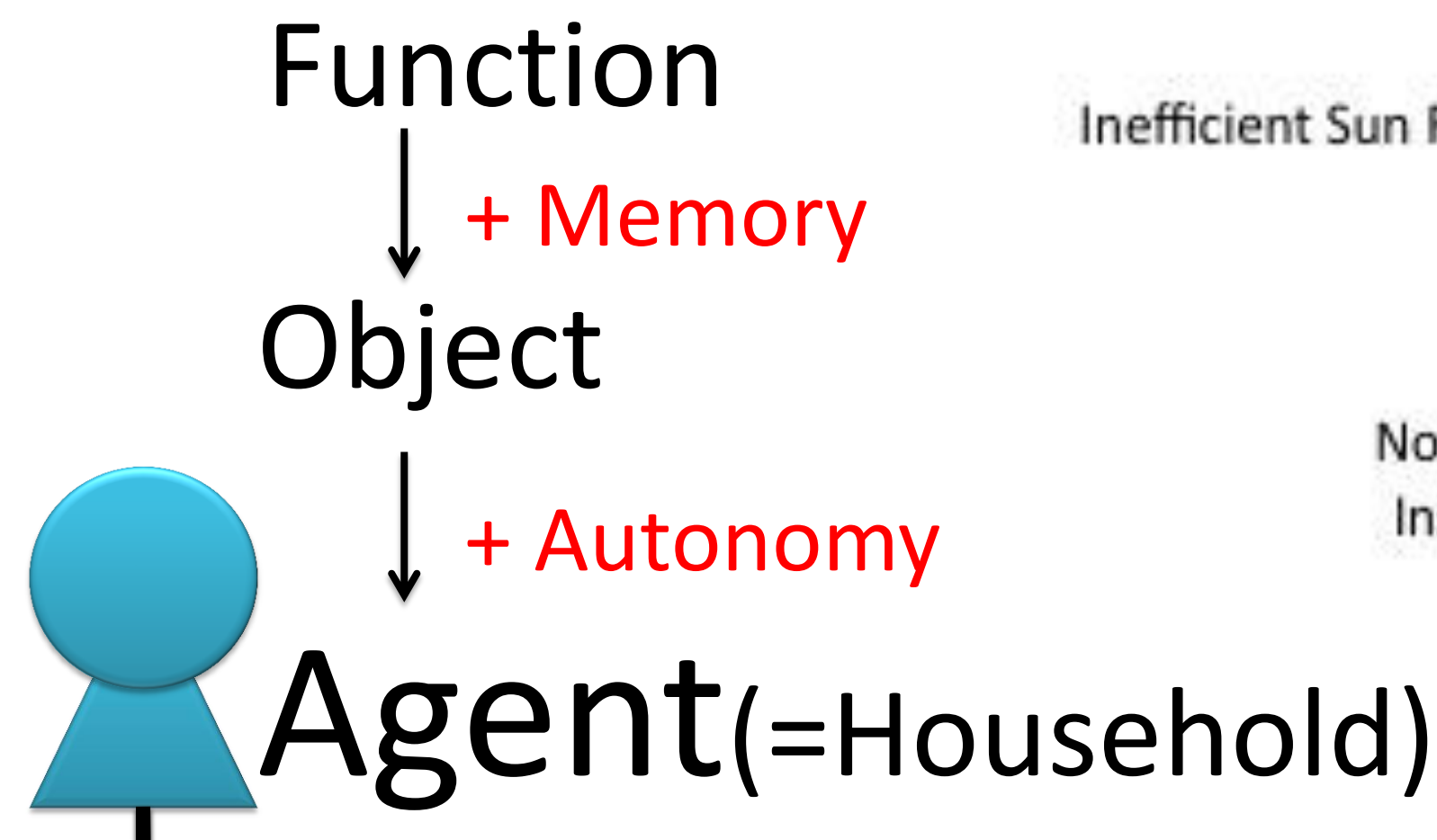
This research will model how households will adopt photovoltaic system (PV), based on variable factors including markets, policy, and communications between households. Then, by analyzing the impact of diffusion through interaction between households, the role of such community-based installation will be evaluated.



2. Methodology

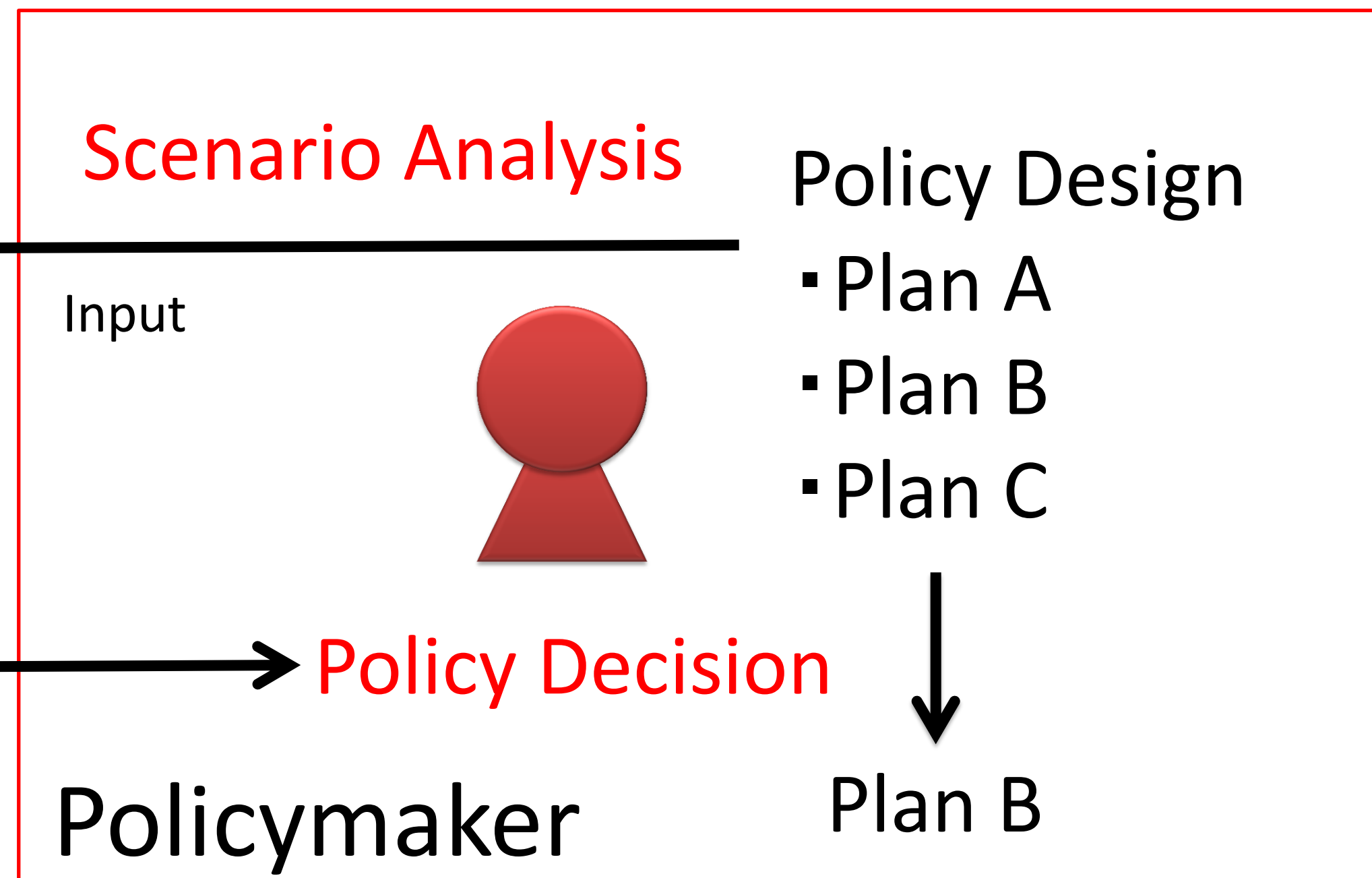
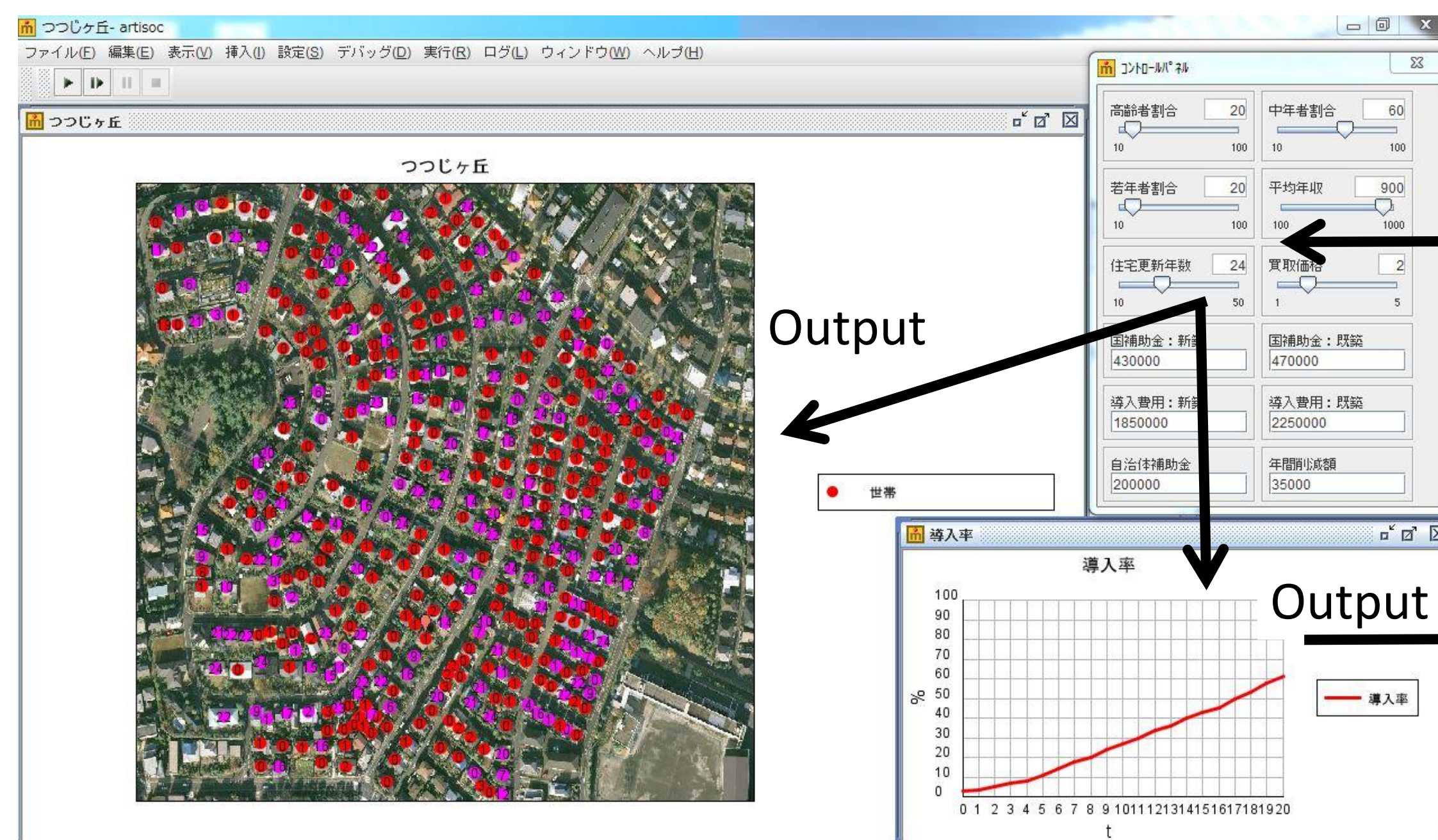
Agent-Based Model

Agent's behavior will be modeled considering economical rationality, installation time, and interaction between households



3. Result

Following the surveys, of the model will be built based upon the variables of economical rationality, installation timelines and the interaction between agents. From the model, it will be possible to analyze the importance of agent interaction within communities in the diffusion of PV systems.



4. Conclusion

This research is modeling how households will adopt photovoltaic system, based on variable factors including markets, policy, and communications between households. Then, by analyzing the impact of diffusion through interaction between households, the role of such community-based installation is evaluated.

Diffusion Simulation

5. Future Work

It is necessary, to predict the diffusion suitably and in detail for policy decision. As future work, this study will approach to create a tool that can be used for Policy Design.

