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## **The Effects of Population Displacement on Community Resilience**

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**Abstract:** The purpose of this study is to develop a system dynamics model to understand how a displaced population from a city can affect the availability of resources the community that receives them. Population displacement possesses the potential to negatively impact a receiving community. The effects of population displacement is apparent in the modern day context with Syrian refugees entering Europe. The intermixing of these populations will affect future policy decisions on how to handle the placement of refugees. The interaction of the incumbent community members with the displaced populations yields multiple outcomes dependent upon the actions of the displaced and incumbents. The model uses the city of Baltimore as a use case scenario and identifies the impact of population displacement and the effects of policy actions to achieve the desired outcome.

*Keywords: System Dynamics, Simulation, Population Displacement, Community Resilience*