Final Project Report

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1 Introduction

1.1 Problem Statement

So far, our simulations have considered the Net Present Value of home elevation under the assumption that homeowners will pay for their home elevation out of pocket. In reality, people have to chose between paying out of pocket (if this is even something they can afford), taking out a loan, or saving up.

Each of these options has tradeoffs in upfront cost and in NPV. In this paper, we will analize these tradeoffs.

1.2 Selected Feature

Describe the feature you have selected to add to the existing decision-support tool. Discuss how this feature relates to the problem statement and its potential to improve climate risk assessment.

2 Literature Review

Provide a brief overview of the theoretical background related to your chosen feature. Cite at least two relevant journal articles to support your approach (see Quarto docs for help with citations). Explain how these articles contribute to the justification of your selected feature.

3 Methodology

3.1 Implementation

You should make your modifications in either the HouseElevation or ParkingGarage module. Detail the steps taken to implement the selected feature and integrate it into the decision-support tool. Include code snippets and explanations where necessary to clarify the implementation process.

3.2 Validation

As we have seen in labs, mistakes are inevitable and can lead to misleading results. To minimize the risk of errors making their way into final results, it is essential to validate the implemented feature. Describe the validation techniques used to ensure the accuracy and reliability of your implemented feature. Discuss any challenges faced during the validation process and how they were addressed.