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Use of Hierarchical Decision Modeling for Site Selection of a Major League Baseball Stadium in Portland

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Abstract: This paper proposes a hierarchical decision model to select a site from various potential sites for a major league baseball stadium in Portland, Oregon. A short background on MLB in Portland, with all the related factors, is provided. Next this paper describes Hierarchical Decision Modeling using pair wise comparisons and the process of using this as a decision making tool. A detailed description of the HDM developed is then provided. This model includes determination of the number of levels of the HDM and their relationship with each other. It describes all the elements of each level and the process of identifying and specifying them. The pair wise comparison method used to gather the experts' judgments is then described. Next it describes the analysis of the gathered data from which final priority weights are obtained for the various sites under consideration. The site selection decision would be based on these weights. Finally this paper discusses future work that would be required on this model to provide effective application to the site selection decision process.