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Decision System for Beneficiaries of the Family Hope Program Using the Rank Order Centroid Method and Weighted Product Method

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Abstract
Poor refers to a state of having little or insufficient material possessions or resources relative to others in a particular society or community. Many factors become the criteria of poverty. These factors identified and measured using the Rank Order Centroid (ROC) method and Weighted Product (WP) method to decide on prospective beneficiaries' social assistance of Program Keluarga Harapan (PKH) or the Family Hope Program. There are 8 criteria used in this research: income of the head of the family, number of dependents, occupation, home ownership, vehicle ownership, condition of the house using Geographical Information system or Global Positioning System (GPS), and having received assistance. The purpose of this study is to facilitate the Samarinda City Social Service in providing appropriate assessments and decisions. The results indicate that the ROC and WP method was successfully applied in decision support systems for the best alternatives with a preference value of 0.000991677.

Keywords: PKH, Decision Support System, ROC, WP.

1. INTRODUCTION
Poverty can have significant impacts on a person's quality of life, opportunities, and overall well-being. It can limit access to education and healthcare, lead to inadequate nutrition and housing, and create barriers to economic and social participation. There are varying degrees of poverty, from extreme poverty where individuals struggle to meet even their most basic needs, to relative poverty where individuals have enough to survive but still face limitations in terms of opportunities and resources compared to the broader population. Efforts to alleviate poverty often involve various social, economic, and political strategies, including social welfare programs, economic development initiatives, education and job training, and advocacy for policies that promote economic equality and opportunity. The problem of poverty is a complex and multidimensional problem so that

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