ABSTRAK

Penelitian ini merancang sebuah aplikasi berbasis *website* yang membantu Dinas Ketahanan Pangan, Tanaman Pangan, dan Hortikultura Kabupaten Ogan Komering Ilir (OKI) dalam proses pengambilan keputusan terhadap permintaan alsintan (Alat dan Mesin Pertanian). Kabupaten OKI memiliki potensi pertanian yang besar, namun pengambilan keputusan yang kurang transparan dan rentan terhadap kesalahan menyebabkan distribusi alsintan tidak merata dan lambat. Untuk mengatasi masalah ini, metode *Simple Additive Weighting* (SAW) diterapkan untuk menghasilkan keputusan yang lebih objektif dengan mempertimbangkan beberapa faktor penting seperti luas lahan, jumlah anggota kelompok tani, komoditas tanaman, dan kelengkapan proposal. *Simple Additive Weighting* (SAW) dipilih karena kemudahan penerapannya dan kemampuannya dalam menangani berbagai kriteria sekaligus. Aplikasi berbasis *website* ini diharapkan dapat meningkatkan efisiensi, transparansi, dan mengurangi subjektivitas dalam proses seleksi penerima alsintan. Dengan sistem ini, diharapkan distribusi alsintan menjadi lebih cepat dan tepat sasaran, serta dapat meningkatkan produktivitas pertanian di Kabupaten OKI. Penelitian ini juga bertujuan untuk memperkuat akuntabilitas distribusi bantuan alsintan dan memastikan bahwa keputusan yang diambil sesuai dengan kebutuhan.

Kata Kunci: Aplikasi, Pengambilan Keputusan, Alsintan, dan *Simple Additive Weighting* (SAW)

ABSTRACT

This study designs a website-based application that assists the Food Security, Food Crops, and Horticulture Service of Ogan Komering Ilir (OKI) Regency in the decision-making process for requests for agricultural machinery and equipment. OKI Regency has great agricultural potential, but decision-making that is less transparent and prone to errors causes uneven and slow distribution of agricultural machinery. To overcome this problem, the Simple Additive Weighting (SAW) method is applied to produce more objective decisions by considering several important factors such as land area, number of farmer group members, type of commodity, and completeness of the proposal. Simple Additive Weighting (SAW) was chosen because of its ease of implementation and its ability to handle various criteria at once. This website-based application is expected to increase efficiency, transparency, and reduce subjectivity in the selection process for recipients of agricultural machinery. With this system, it is hoped that the distribution of agricultural machinery will be faster and more targeted, and can increase agricultural productivity in OKI Regency. This study also aims to strengthen the accountability of the distribution of agricultural machinery assistance and ensure that the decisions taken are in accordance with needs.

Keywords: Application, Decision Making, Agricultural Machinery, and Simple Additive Weighting (SAW)