USING DYNAMIC SYSTEM METHOD TO MAKE MODEL FOR MEASUREMENT MATURITY LEVEL OF INFORMATION SYSTEM WITH STANDARD COBIT 4.1 (CASE STUDY ON INFORMATION SYSTEM OF LETTERS MANAGEMENT IN PERUM PERHUTANI UNIT II EAST JAVA)

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ABSTRACT

Utilization of current information systems have penetrated many areas of community life, both individually and in a group (organization). An activities to Manage letters on an organization is more complex than an activities to manage letters on individual. The diversity of the letter in an organization must be managed so it can be optimally beneficial to support activities of the organization. Information systems have been utilized in the process of mails handling in Perhutani Unit II of East Java, but can not measurable efficiency and effectiveness.

Research stages through which the start of the process of observation, interviews and document collection, then made causal loop diagrams followed by made a simulation models then continued with the validation stage of the model. Influential variables in an information system can measured the maturity level using the standard 4.1 COBIT as an Information Technology governance standards. The model created can provide yanga actual conditions present in an application of information systems.

Improvement scenarios used in the model dynamical system to increase the maturity level of information system management letter that has been applied in Perum Pehutani based on COBIT 4.1. Results of each - each scenario is analyzed to see improvement scenarios that could be an option for Perhutanioffice Unit II of East Java for the improvement of information system management letters.

Keywords : Dynamic systems, management information systems, simulation model, perum perhutani unit II east java.