

# **Abstract**

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## **A Computer Model for ing Equipment for Earthmoving Operations Using Simulation**

Earthmoving is often one of the most important operations in many construction projects in terms of its great effect on costs and productivity. In this paper we propose a simulation decision supporting model using PROEQUIP to assist engineers and decision makers to the appropriate earthmoving operation and to control and record earthmoving productivity and cost. For this purpose, a graphic and analytic model that represents the earthmoving productivity was idealized. Data were collected concerning a real case, followed by several simulations aiming at the identified operational scenarios. As a conclusion of the study, PROEQUIP model provide an important instrument for decision makers when managing earthmoving planning and execution