

## عنوان مقاله:

Analysis of project management structure based on PMBOK with System Dynamic

## محل انتشار:

هشتمین کنفرانس بین المللی مهندسی صنایع (سال: 1391)

تعداد صفحات اصل مقاله: 8

## نویسندگان:

,Mina Farshbaf Zirakkar - Graduated of Industrial Engineering Tabriz

Naeimeh Salimi

## خلاصه مقاله:

This paper describes the use of system dynamics models for managing projects based on PMBOK standards. System Dynamics is an effective method for studying dynamic conditions and changes in complex systems. It has been used in domain of social, economic and human activities which deal with vague and inaccurate variables. In fact it has been used to address practically every sort of feedback system including project management. In this paper, we'll present a structure of managing project based on PMBOK and show how system dynamics model can be used to enhance the productivity and cause improvement in managing project. The effects of time & cost-varying, project team size, of capital and consumer resources, of quality-varying are incorporated in our model. Then relations among the variables are discussed by using system dynamic method and developed by using Vensim PLE application software (Ventana 2005) [23], [25]. Results indicate that, this model allows managers to forecast cost and time overruns and the quality of project on the basis of limited numbers of inputs describing the initial conditions. In particular the model shows some important managerial directions about monthly revision, time and cost controlling and other main aspects inferring the project managing based on PMBOK

## کلمات کلیدی:

System dynamics, PMBOK, Project management, time & cost varying, Improvement

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/172873>

