



Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach

Stephen P. Warhoe

Download now

[Click here](#) if your download doesn't start automatically

Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach

Stephen P. Warhoe

Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach Stephen P. Warhoe

One of the most important jobs of a project manager is to manage a project's budget and schedule. These tasks can easily be very difficult to accomplish on projects that are complex, especially since successful project execution relies heavily on people who are expected to perform their roles individually and as a team. One of the most difficult aspects of managing projects is estimating how fast and effectively humans will perform a task; that is, determining how productive workers collectively will be each day, each week, or within any time period during the life of a project. Because projects are unique and are typically one-off endeavors, there is usually little previous empirical data to rely upon for the project manager to forecast productivity before or during the project's execution. The crux of the problem lies with adequately identifying not only the labor work flow process, but also the influences that affect the work flow process. When scope changes are introduced into the work flow of a project, the types and number of influences and their cause and effect relationships can significantly increase in numbers. This phenomenon often turns complicated projects into extremely complex ones and the final outcome can be greater than the sum of the individual inputs. For project managers who are unable to get their arms around this very real situation, forecasting the outcome of a project often becomes out of control, especially for projects that are large and heavily labor intensive. This study takes a post-positivist approach to design and builds a system dynamic model with which construction projects that are delivered using the design-bid-build methodology can be simulated to show generically how the influences that affect construction projects can affect worker productivity. No other studies are known to exist that design or build such a model for construction projects that use the design-bid-build delivery method. The model that was designed in the study is based on the works of several academics' works as well as the input of several experts in the construction field, including this study's author. As opposed to attempting to create a simulation model based on the uniqueness of a single project, a "mosaic" approach was used in creating the model in that elements of the model were identified and taken from studies found through the literature review as well as interviews with construction industry experts. The stock and flow structure of the study's model is intended to be a composite of many construction projects and can be used for any project delivered using the design-bid-build methodology. From the research, the model was created and tested using good modeling practice in that the model testing phase followed the process created by one of the pre-eminent system dynamic modelers in the world (refer to Sterman, 2000). The result is a model that simulates the work flow of labor hours in a design-bid-build construction project which can be affected by an immeasurable number of influences that can and do occur on construction projects.

 [Download Applying Earned Value Management to Design-Bid-Bui ...pdf](#)

 [Read Online Applying Earned Value Management to Design-Bid-B ...pdf](#)

Download and Read Free Online Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach Stephen P. Warhoe

From reader reviews:

Lynn Hardie:

Book is definitely written, printed, or descriptive for everything. You can understand everything you want by a reserve. Book has a different type. As we know that book is important thing to bring us around the world. Close to that you can your reading proficiency was fluently. A e-book Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach will make you to be smarter. You can feel far more confidence if you can know about every little thing. But some of you think that will open or reading a new book make you bored. It is not necessarily make you fun. Why they could be thought like that? Have you seeking best book or suitable book with you?

Gordon Frederick:

This book untitled Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach to be one of several books that best seller in this year, that's because when you read this e-book you can get a lot of benefit onto it. You will easily to buy this kind of book in the book retailer or you can order it by means of online. The publisher on this book sells the e-book too. It makes you quickly to read this book, since you can read this book in your Cell phone. So there is no reason to your account to past this publication from your list.

Heidi Crenshaw:

That e-book can make you to feel relax. This kind of book Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach was colorful and of course has pictures on there. As we know that book Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach has many kinds or category. Start from kids until young adults. For example Naruto or Detective Conan you can read and feel that you are the character on there. So , not at all of book usually are make you bored, any it makes you feel happy, fun and chill out. Try to choose the best book for you personally and try to like reading which.

Amy Joshi:

What is your hobby? Have you heard that will question when you got pupils? We believe that that concern was given by teacher for their students. Many kinds of hobby, Everyone has different hobby. And you also know that little person including reading or as reading through become their hobby. You have to know that reading is very important and also book as to be the thing. Book is important thing to increase you knowledge, except your own personal teacher or lecturer. You see good news or update concerning something by book. Numerous books that can you decide to try be your object. One of them are these claims Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach.

Download and Read Online Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach Stephen P. Warhoe #YKZ8XV1D5PB

Read Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach by Stephen P. Warhoe for online ebook

Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach by Stephen P. Warhoe Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach by Stephen P. Warhoe books to read online.

Online Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach by Stephen P. Warhoe ebook PDF download

Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach by Stephen P. Warhoe Doc

Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach by Stephen P. Warhoe Mobipocket

Applying Earned Value Management to Design-Bid-Build Projects to Assess Productivity Disruption: A System Dynamics Approach by Stephen P. Warhoe EPub