Abstract

This paper looks into the various aspects and components of project management control with a view to identify a new methodology using a hybrid model to achieve control objectives. Classical approaches to project management control are explored. The best known methods of Project management are Water fall 3 and Scrum methods 3. However in a real world scenario, neither of these methodologies may be the best fit. Hence with the help of empirical project data an attempt is made to analyze options and see how effective is a hybrid model in achieving optimal control.

To achieve this, additional control criteria like quality control and development of reusable components etc are used. The analysis is carried out using specific IT project implementation data of a medium size project. The project was implemented using standard Software Development Life Cycle (SDLC) techniques.
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   - Waterfall Vs Agile: Which is the Right development methodology for your Project? http://www.seguetech.com/waterfall-vs-agile-which-is-the-right-development-methodology-for-your-project/
   - Project management: cost, time and quality, two best guesses and a phenomenon, its time to accept other success criteria by Roger Atkinson Department of Information Systems, The Business School, Bournemouth University, Talbot Campus, Poole, Dorset BH12 5BB, UK
   - Defining and measuring project success by Danie van der Westhuizen, Department Information Systems, Faculty of Business, University of Southern Queensland - Wide Bay Campus, Hervey Bay, Queensland, Australia
   - Breaking through the Project Fog by James Norrie published by John Wiley and Sons
   - Portfolios of Control Modes and IS Project Management by Laurie S. Kirsch, Katz Graduate School of Business, The University of Pittsburgh, Pittsburgh, Pennsylvania
   - Project Management Methodologies: A Comparative Analysis, by M. M. Chin (Kuala Lumpur Infrastructure University College), (PhD) and A. C. Spowage, (University of Nottingham Malaysia Campus), (PhD) and E. H. Yap, (University of Nottingham Malaysia Campus), (PhD)
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   - Project Controls to Minimize Cost and Schedule Overruns: A Model, Research Agenda, and Initial Results David N. Ford , James M. Lyneis , and Timothy R.B. Taylor
   - Statistical Project Control at http://www.projectmanagement.ugent.be/?q=research/project_control/spc
   - Impact of Real-time Project Control on Capital Project Cost and Schedule Performance by David Grau and Amin Abbaszadegan, School of Sustainable Engineering and the Built Environment; Arizona State University; Tempe AZ, USA david.grau@asu.edu

**Index Terms**

Computer Science

Information Sciences

**Keywords**

IT project management, Control objectives, Hybrid extended methodology, software development life cycle