Project estimates using Monte Carlo simulation

Agile Estimation With Monte Carlo Simulation

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Agile Estimation With Monte Carlo Simulation:

The Project Manager's Guide to Mastering Agile Charles G. Cobb,2023-03-03 THE PROJECT MANAGER S GUIDE TO MASTERING AGILE Updated guide to Agile methodologies with real world case studies and valuable frameworks for project managers moving to Agile The Project Manager s Guide to Mastering Agile helps project managers who are faced with the challenge of adapting their project management approach to an Agile environment showing how these approaches can work jointly to improve project outcomes in any project with discussion topics and real world case studies that facilitate hands on learning It also provides project managers with the fundamental knowledge to take a leadership role in working with companies to develop a well integrated enterprise level Agile Project Management approach to fit their business The original edition of this book has been very successful and is used as a graduate level textbook in several universities This new edition builds on the success of the original edition and includes updated content from the latest PMBOK Guide updated sections on stakeholder management value driven delivery adaptive planning and distributed project management with an all new chapter on Hybrid project management It also includes new case studies on applying an Agile Hardware Development at Tesla and Project Management in a non software environment Sample topics covered in The Project Manager s Guide to Mastering Agile include Bridging the chasm in project management philosophies impact on the project management profession evolution of Agile and Waterfall and learning to see Agile and traditional plan driven project management as complementary to each other rather than competitive The roots of Agile and understanding Agile at a deeper level including the Agile manifesto from 2001 adapting an Agile approach to fit a business and Scrum overview roles framework principles and values Time boxing Kanban and theory of constraints Agile estimation overview and estimation practices and velocity and burn down burn up charts Scaling Agile to an enterprise level including challenges obstacles to overcome implementation considerations management practices and enterprise level Agile transformations With comprehensive accessible and highly practical coverage of Agile a leading project management platform The Project Manager s Guide to Mastering Agile is a highly valuable resource for professional project managers students studying project management and those studying for PMI s Agile Certified Practitioner Certification PMI ACP   Making the Case for Change Christopher F. Voehl,H. James Harrington,Frank Voehl,2014-09-03 The best time to stop projects or programs that will not be successful is before they are ever started Research has shown that the focused use of realistic business case analysis on proposed initiatives could enable your organization to reduce the amount of project waste and churn rework by up to 40 percent potentially avoiding millions of dollars lost on projects programs and initiatives that would fail to produce the desired results This book illustrates how to develop a strong business case which links investments to program results and ultimately with the strategic outcomes of the organization In addition the book provides a template and example case studies for those seeking to fast track the development of a business case within their organization Making the Case for Change Using

Effective Business Cases to Minimize Project and Innovation Failures provides executive teams and change agents with the information required to make better business case decisions This book can be used throughout the life cycle of the project to assist with gaining a better understanding of the following key knowledge areas for developing a business case Understanding the present problem improvement opportunity Documenting how the project program or initiative will add value to the organization Validating the data and the assumptions that the projected improvements are based upon Calculating the level of confidence that can be placed upon the conclusions that are reached Assessing the alternative solutions that were considered Weighing the costs vs the benefits of the proposed initiative Analyzing and mitigating the risks to completing 100 percent of the project s goals Eliciting and prioritizing the requirements of key stakeholders and subject matter experts Identifying the key people that are involved in the proposed project and the skills needed to implement the proposed change Obtaining consensus on the decision to move forward as well as on the methods used and the conclusions specified in the analysis Ideal for executives and project initiative managers seeking approval of an activity initiative program or project the book presents proven tips advice suggestions and recommended courses of action for developing effective business cases In addition suggestions for recruiting a responsible senior officer or sponsor for the project and for engaging an audience are provided The authors combine their own experience in business case development with approaches used by world class organizations They provide a general range of assessment criteria that can be applied to almost any type of project business cases The text discusses each of the 8 activities and the 35 tasks that make up the business case development process This process supplies you with a proven approach for creating comprehensive and well constructed business case evaluations that will either ensure the success of your project or eliminate unsuccessful projects programs and initiatives before they start *Recent Advances in Artificial Intelligence in Cost Estimation in Project Management* Nevena Rankovic,Dragica Ranković,Mirjana Ivanovic,Ljubomir Lazić,2024-12-06 This book focuses on the practical application of AI tools and techniques in software project management offering detailed theoretical explanations and practical examples of over 40 state of the art machine learning and deep learning algorithms applied across each project phase as well as in risk and resource management Helping the business world estimate projects more accurately while saving costs and resources is crucial in today s rapidly changing fast paced technological landscape Moreover it presents specific aspects of combined approaches through ensemble models incorporating Taguchi s optimization method to further improve estimation accuracy advancing this area of software project management A valuable resource for students and professionals to deepen their knowledge and skills it also serves as a great manual for companies adopting smarter strategies to manage and develop projects more efficiently and effectively *Benefit/Cost-Driven Software Development* Jo Erskine Hannay,2021-06-24 This open access book presents a set of basic techniques for estimating the benefit of IT development projects and portfolios It also offers methods for monitoring how much of that estimated benefit is being achieved during

projects Readers can then use these benefit estimates together with cost estimates to create a benefit cost index to help them decide which functionalities to send into construction and in what order This allows them to focus on constructing the functionality that offers the best value for money at an early stage Although benefits management involves a wide range of activities in addition to estimation and monitoring the techniques in this book provides a clear guide to achieving what has always been the goal of project and portfolio stakeholders developing systems that produce as much usefulness and value as possible for the money invested The techniques can also help deal with vicarious motives and obstacles that prevent this happening The book equips readers to recognize when a project budget should not be spent in full and resources be allocated elsewhere in a portfolio instead It also provides development managers and upper management with common ground as a basis for making informed decisions **How to Measure Anything in Project Management** Douglas W. Hubbard,Alexander Budzier,Andreas Bang Leed,2025-10-22 Uncover common project management myths to improve project success How to Measure Anything in Project Management explains why popular methods for measurement in project management are flawed and describes how to conduct measurements that better inform decisions reduce project risks and improve the chance of project success The authors argue that anything that matters to project management at all is measurable and that these measurements address many of the problems in project management The authors leverage an exclusive survey on the state of the art of measuring projects new case studies of things that are seemingly hard to measure and a database collected by Oxford Global Projects of thousands of projects in software development construction energy and many other fields including some of the biggest projects in history The book is accompanied by a set of useful spreadsheet based power tools that support the more technical aspects of quantifying project risk forecasting outcomes and conducting seemingly difficult measurements In this book readers will learn Why many of the methods they have been taught to use are little more than a type of analysis placebo Why many popular methods lead to extreme overconfidence in estimates How some of the most important measurements a project could conduct are currently rarely used How to Measure Anything in Project Management earns a well deserved spot on the bookshelves of managers executives auditors controllers and consultants seeking to improve project performance through superior measurement methodology Estimating Software Costs : Bringing Realism to Estimating Capers Jones,2007-04-19 Deliver bug free software projects on schedule and within budget Get a clear complete understanding of how to estimate software costs schedules and quality using the real world information contained in this comprehensive volume Find out how to choose the correct hardware and software tools develop an appraisal strategy deploy tests and prototypes and produce accurate software cost estimates Plus you ll get full coverage of cutting edge estimating approaches using Java object oriented methods and reusable components Plan for and execute project phase and activity level cost estimations Estimate regression component integration and stress tests Compensate for inaccuracies in data collection calculation and analysis Assess software deliverables and data complexity Test design

principles and operational characteristics using software prototyping Handle configuration change research quality control and documentation costs Capers Jones work offers a unique contribution to the understanding of the economics of software production It provides deep insights into why our advances in computing are not matched with corresponding improvements in the software that drives it This book is absolutely required reading for an understanding of the limitations of our technological advances Paul A Strassmann former CIO of Xerox the Department of Defense and NASA **Design and Analysis of Modern Tracking Systems** Samuel S. Blackman,Robert Popoli,1999 Here s a thorough overview of the state of the art in design and implementation of advanced tracking for single and multiple sensor systems This practical resource provides modern system designers and analysts with in depth evaluations of sensor management kinematic and attribute data processing data association situation assessment and modern tracking and data fusion methods as applied in both military and non military arenas *International Aerospace Abstracts* ,1998 *International Journal of Production Economics* Elsevier,2004 *Forecasting and Simulating Software Development Projects* Troy Magennis,2011-10-25 Forecasting and Simulating Software Development Projects explains how to effectively model Kanban and Scrum projects to get accurate forecasts of cost delivery dates and staff requirements Modeling using Monte carlo simulation allows rapid what if analysis to find options that minimize cost and delivery time whilst maximizing revenue Simulation lets you hit target delivery dates and shows the impact of hiring or losing staff with certain skillsets taking software project leadership to a new level of maturity Target audience and key takeaways Project Managers Understand modeling and forecast projects and how to simulate those models to answer questions regarding delivery dates cost and staffing needs Development Managers and Team Leads Understand how to reduce the amount of estimation required for cost and date forecasts and determining what development events cause the most impact Executive Leadership Understand how multiple teams can co ordinate their forecasts in a methodical way and provide a consistent approach to risk management and decision making Venture Capital Investors Understand how to obtain reliable cost and date forecasts for potential investments and how to compare different software project investment portfolios Topics include Simulating Scrum and Kanban project methodologies Forecasting the probability of hitting delivery date costs Hiring the right team size and skill mix Creating visual animations and videos to sell solutions to others Finding what model inputs are critical to delivery date Effective and minimal story estimation and grouping strategies Capturing the project deliverables and story backlog Modeling development events defects added scope and blocking events Reverse engineering real world data to improve model accuracy *Defense Transformation and Network-centric Systems* ,2007 *Communications & Strategies* ,2000 **Proceedings of the Summer Computer Simulation Conference** ,1974 *Twenty Year Cumulative Index, 1951-1971* Institute of Electrical and Electronics Engineers. Aerospace and Electronic Systems Group,1972 *Applied Science & Technology Index* ,1997 **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1990 Issues for 1973 cover the entire IEEE technical

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